

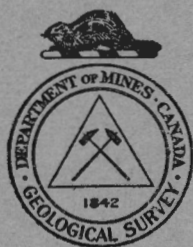
CANADA
DEPARTMENT OF MINES
HON. MARTIN BURRELL, MINISTER; R. G. McCONNELL, DEPUTY MINISTER.

GEOLOGICAL SURVEY
WILLIAM McINNES, DIRECTING GEOLOGIST.

Annotated Catalogue of and Guide
to the Publications of the
Geological Survey
Canada

1845-1917

BY
W. F. Ferrier
Assisted by Dorothy J. Ferrier



OTTAWA
J. DE LABROQUERIE TACHÉ
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1920

No. 1723

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Publications that are available for distribution
may be obtained by application to The Director,
Geological Survey, Ottawa.

Annotated Catalogue of and Guide to the Publications of the Geological Survey of Canada, 1845-1917.

INTRODUCTION.

The first volume of reports of the Geological Survey (for 1843) was issued in 1845 under the title "Report of Progress", which was retained for subsequent volumes until 1884. In 1885 the title of the volumes was changed to "Annual Report (new series)" and continued until 1907, when, with the publication of vol. XVI (for 1904), the bound volumes in English were discontinued, those in French having ended with vol. XII (for 1899). Nearly all reports contained in vols. I-XVI have also been issued as separates.

After the discontinuance of the annual volumes all publications were issued separately at irregular intervals and since 1910 are mostly included in the series of "Memoirs" and "Museum Bulletins" commenced in 1910 and 1913, respectively.

The publication of an annual Summary Report in separate form, commenced in 1885, has been continued to date.

In addition to the Reports of Progress, Annual Reports, Summary Reports, Memoirs, and Museum Bulletins, numerous separate reports and special publications have also been issued.

The catalogue includes the publications of the Geological Survey from its inception to August 1, 1917. It is not intended to take the place of a detailed index, but by listing as fully as possible the contents of each publication as derived from titles, by the insertion of notes, and by classified finding lists (accompanied by index maps) in which attention is directed to the scope of a report, it is hoped that the means has been provided for readily obtaining any desired information.

In this work former catalogues have been disregarded and the particulars obtained from the publications themselves.

Numerous explanatory notes have been inserted and an endeavour has also been made to give information regarding such matters as editions, official reprints, errors, etc., which may be useful to librarians and others in indexing and arranging the reports and maps.

In listing contents of publications it has not been thought necessary for the purposes of this catalogue to adhere strictly to the rules of cataloguing. In the past there has been such a diversity of systems of pagination and nomenclature of illustrations that detailed particulars and explanations would be complex and confusing. Regarding illustrations, the numbered maps and diagrams, folding sheets, errata slips, etc. in each publication are specified, as, through errors in binding, copies of volumes and separates occasionally lack some of these. The total number

of all other pictorial representations is then given, each figure whether in text or plates being counted as one illustration.

In the older reports where no descriptive title is attached this has been supplied, worded to convey a clear idea of the contents.

Old forms of geographical names in titles have been changed to conform with the rulings of the Geographic Board where the retention of the old name might be confusing.

Dates following titles of maps and reports are those of publication. Where the date printed on the report or map differs from the actual date of publication the former is also inserted, in brackets.

Publications marked thus (†) are out of print. The letters (*E*) and (*F*) placed after publication numbers denote the English and French editions, respectively.

Particulars given under reports contained in bound volumes refer to the separates, unless otherwise noted.

In all Summary Reports prior to that for 1901 only those preliminary reports (or parts of reports) of investigations on which no final report was issued, are listed, but under each final report references to all preliminary reports are given. In part XVIII *all* preliminary reports are included.

In the present catalogue, maps issued separately unaccompanied by final reports are listed with the Summary Reports or others in which descriptions of the areas are found or information is given regarding the maps. Where the descriptions are contained in more than one the map is listed with the latest report and references given to the others.

Some defects exist in the index maps furnished to accompany the finding lists, but these were not considered serious enough to justify the delay in publication which would be necessitated by their correction.

The appendix to this catalogue contains a list of papers, by members of the staff and some others who did special work for the Survey, which appeared in publications other than those of the Geological Survey. The list is arranged under the names of authors.

I am greatly indebted for information and suggestions to Mr. W. McInnes and members of the staff of the Geological Survey, particularly Mr. D. B. Dowling, Mr. E. R. Faribault, Mr. C. O. Sénécal, Mr. W. H. Collins, Mr. L. M. Lambe, Mr. W. H. Boyd, Mr. J. M. Macoun, Mr. P. H. Selwyn, Mr. J. Marshall, Mr. J. Hill, Mr. M. Sauvalle, Mr. J. Paradis, Mr. P. E. Lévesque, and Mr. R. E. Lyons.

My thanks are also due to Miss M. Calhoun for assistance in checking publications, and to Miss T. O'Farrell who was employed in the preliminary cataloguing.

In conclusion I desire to acknowledge the efficient assistance of my daughter, Miss D. J. Ferrier, without whose co-operation it would have been impossible for me to undertake the work.

PART I.
REPORTS OF PROGRESS, ANNUAL REPORTS,
AND
SUMMARY REPORTS.

PART I.

REPORTS OF PROGRESS, ANNUAL REPORTS, AND SUMMARY REPORTS.

Numbers in the margin are the publication numbers of the Geological Survey. Reports included in the volumes which have also been published as separates have their individual numbers. Most of the maps accompanying reports have also been issued separately. Where the separate differs in title or otherwise it is specially noted. Publications marked thus (†) are out of print. The letters (*E*) and (*F*) placed after publication numbers denote the English and French editions, respectively. Reprints are inserted immediately following the originals. See part XVI for complete list of the various forms in which separates of Summary Reports have been issued.

- †1. (*E*) **Report of Progress for the year 1843.** Title reads: Message from His Excellency the Governor General, with reports on a geological survey of the Province of Canada. Published in English and French, Montreal, 1845. 8vo. pp., English 159, French 159. With 10 illustrations. See note on p. 12.

Contains the following reports:

Remarks on the mode of proceeding to make a geological survey of the Province. By W. E. Logan.

Preliminary report, 1842. (Giving "a probable sketch of some leading features in Canadian geology.") By W. E. Logan.

Report of Progress for the year 1843. (Contains a short account of the general geological structure of the eastern and western parts of the Province of Canada in relation to that of the United States, with notes on lithographic stone.) By W. E. Logan.

On the geology of the district between Georgian bay and the lower extremity of lake Erie, with notes on economic minerals. With 4 illustrations. By A. Murray.

Appendix. Section of the Nova Scotia coal measures as developed at the Joggins, on the bay of Fundy, in descending order, from the neighbourhood of the West Ragged reef to Minudie, reduced to vertical thickness. With 6 illustrations. By W. E. Logan.

- †2. (*E*) **Report of Progress for the year 1844.** Published in English and French, Montreal, 1846. 8vo. pp., English 110 and errata slip, French 120. With 1 illustration. See note on p. 12.

Contains the following reports:

On the geology of the Chat and Cascapedia rivers, Gaspé, and part of Chaleur bay. With 1 illustration. By W. E. Logan.

On the geology of the Bonaventure river. By A. Murray.

Appendix. Geological sections on Chaleur bay and coast of Gaspé. By W. E. Logan.

1. Section of coal measures displayed in the cliffs between Cranberry cape and point Dumai, on the New Brunswick coast, south side of the bay Chaleur.

2. Section of measures exposed in the cliffs between point Peter opposite Flat island, and the bight of the cove on the north side of pointe Jaune, or Yellow head.

3. Section of measures exposed in the cliffs reaching from pointe Jaune to the trap dyke at the point between Bréhaut bay of Bayfield's chart, and the cove to the south of it.

4. Section of measures exposed in the cliffs between Douglstown and Seal cove (Bréhaut bay, as marked on Bayfield's map), commencing at the point of rock which bounds the cove on the north, and proceeding northward in descending order.
5. Section of measures exposed in the cliffs going southward from Seal bay (or Bréhaut bay, as marked in Bayfield's chart of Gaspé and Mal bays) commencing near the brook in the centre of the cove.
6. Section up a deep narrow ravine on the south side of the Northwest arm, about three miles above Gaspé, and one mile higher up than the second sandy beach above the basin.
7. Section of the same measures collected lower down, just above the saw mill.
8. Section on the lower side of the trap dyke, between the saw mill and the sandy beach.
- †3. (E) **Report of Progress for the year 1845-46.** Published in English and
 †502. (F) French, Montreal, 1847. 8vo. pp., English 125, French 137. See note on p. 12.
 Contains the following reports:
- On the topography and geology of the Ottawa river and some of its tributaries, with notes on economic minerals; tables of levels of the Ottawa river to lake Timiskaming, the Mattawa river to lake Nipissing, lake Nipissing to lake Huron; and meteorological register kept at lake Timiskaming, 1843-44 and 1844-45. (See maps Nos. 26 and 27.)
 By W. E. Logan.
- On the topography and geology of the Matane, Ste. Anne, and St. John rivers, Gaspé. By A. Murray.
- Appendix. List of various mineral springs met with or reported as existing on the Ottawa and its tributaries, arranged under the heads of sulphurous, saline, and chalybeate. With analyses of iron and lead ores and mineral waters by T. S. Hunt. By W. E. Logan.
- †4. (E) **Report of Progress for the year 1846-47.** Published in English and
 †503. (F) French, Montreal, 1847. 8vo. pp., English 66, French 70. See note on p. 12.
 Contains the following reports:
- On the geology and economic minerals of the north shore of lake Superior, with remarks on copper ores and their treatment. By W. E. Logan.
- On the geology of the Kaministikwia and Michipicoten rivers. By A. Murray.
- Appendix [to report by W. E. Logan]. Statistical tables of copper-mining and copper-smelting in Great Britain from 30th June, 1838, to 30th June, 1846.
- †5. (E) **Report of Progress for the year 1847-48.** Published in English and
 †504. (F) French, Montreal, 1849. 8vo. pp., English 165 and errata slip, French 171. See note p. 12.
 Contains the following reports:
- On the geology of the country on the south side of the St. Lawrence extending from the vicinity of Montreal and lake Champlain to the Chaudière river, with notes on the economic minerals. By W. E. Logan.
 Note: pp. 73-80, on gold, are reprinted in No. 399. The same pages were also published as a separate, reimposed and repaged. The only copy known is in the library of the United States Geological Survey. See No. 469.
- †469. Extract from Report of Progress of Geological Survey of Canada, for 1847-48. Gold. Published in English, Montreal, 1849. 8vo. pp. 9. By W. E. Logan.
- On the topography and geology of portions of the north shore of lake Huron, French river, and the Manitoulin islands. (See maps Nos. 22 and 25.)
 By A. Murray.
- On the examination of various minerals, ores, and mineral waters along the Ottawa river, with analyses. By T. S. Hunt.

- †6. (E) **Report of Progress for the year 1848-49.** Published in English and
 †505. (F) French, Toronto, 1850. 8vo. pp., English 65 and errata slip, French 70. See note on p. 12.
 Contains the following reports:
 Summary report of the director. By W. E. Logan.
 On an examination of the shores, islands, and rivers of lake Huron, including parts of the east coast of Georgian bay, and the Spanish river. (See maps Nos. 17 and 18.) By A. Murray.
 On mineral springs in the valleys of the St. Lawrence and Richelieu; minerals and metallic ores from lake Huron and the Eastern Townships, Quebec, with analyses. By T. S. Hunt.
- †7. (E) **Report of Progress for the year 1849-50.** Published in English and
 †506. (F) French, Toronto, 1850. 8vo. pp., English 115 and errata slip, French 120. See note on p. 12.
 Contains the following reports and appendix:
 On the geology of the vicinity of bay St. Paul and Murray bay, and of the Eastern Townships from the Chaudière river to the Temiscouata Portage road, with notes on economic minerals. By W. E. Logan.
 NOTE: pp. 67-69, on gold, are reprinted in No. 399.
 On soils of localities along the Richelieu and Yamaska rivers, and of Brantford and Chatham; clays from London and Niagara; mineral springs, peat, minerals, and metallic ores; with analyses. By T. S. Hunt.
 Appendix. Catalogue of some of the economic minerals and deposits of Canada with their localities. By W. E. Logan.
 NOTE: Appendix was reprinted in two forms, folio size (one with printed matter on only half the width of page), differing in the caption titles. Issued to obtain additional information regarding economic minerals and localities, and to promote a collection of native economic specimens for the Grand Industrial Exhibition, London, England, in 1851. See Nos. 470 and 471. The references to gold are also reprinted in No. 399.
- †470. Catalogue of some of the economic minerals and deposits of Canada, with their localities, Toronto, 20th June, 1850. Folio. pp. 5.
 NOTE: Folded as a document, with title on back: "Grand Industrial Exhibition, 1851. Catalogue of economic minerals, &c., of Canada. By W. E. Logan."
- †471. Grand Industrial Exhibition, 1851. Catalogue of some of the economic minerals and deposits of Canada, with their localities: prepared for the purpose of promoting a collection of native specimens, applicable to useful purposes, to be sent to a provincial industrial fair, to be held in Montreal, the second Monday in October, 1850, and a selection from them to the Grand Industrial Exhibition in London in 1851. Toronto, [1850]. Folio. pp. 3.
 NOTE: Folded as a document, with title on back: "Grand Industrial Exhibition, 1851. Catalogue of economic minerals, &c., of Canada. By W. E. Logan."
- †8. (E) **Report of Progress for the year 1850-51.** Published in English and
 †507. (F) French, Quebec, 1852. 8vo. pp., English 54, French 56. See note on p. 12.
 Contains the following reports:
 On the gold of the Chaudière river and rivière du Loup, and various localities between lake Etchemin and Sherbrooke, Quebec. By W. E. Logan.
 NOTE: pp. 6-11 are reprinted in No. 399.
 On the geology of the peninsula bounded by lakes Huron, St. Clair, and Erie. By A. Murray.
 On minerals from Leeds, Lanark, and Carleton counties, Ontario; Grenville and Calumet island, Quebec; and mineral waters from various localities in Ontario and Quebec; with analyses. By T. S. Hunt.

- †9. (E) **Report of Progress for the year 1851-52.** Published in English and French, Quebec, 1852. 8vo. pp., English 122, French 129. See note on p. 12.
- †508. (F) Contains the following reports:
- On the geology of parts of the counties of Beauharnois and Lake of Two Mountains; gold washing on rivière du Loup; various economic materials; and on the collection sent to the Industrial Exhibition of 1851 (London), including a catalogue of the Canadian minerals shown at this exhibition. By W. E. Logan.
 - NOTE: pp. 40, 21-27, and 121, on gold, are reprinted in No. 399.
 - On the geology of the region between the Ottawa, the St. Lawrence, and the Rideau rivers, with notes on economic minerals. By A. Murray.
 - On rocks, clays, soils, ores, and mineral waters from the Richelieu river; St. Nicholas; Kamouraska county; Quebec; and various other localities; with analyses. By T. S. Hunt.
- †10. (E) **Report of Progress for the year 1852-53.** Published in English and French, Quebec, 1854. 8vo. pp., English 179, French 197. See note on p. 12.
- †509. (F) Contains the following reports:
- On the geology of the north shore of the St. Lawrence between Montreal and cape Tourmente below Quebec, with notes on economic materials from various localities in this area, the Eastern Townships, etc. By W. E. Logan.
 - NOTE: pp. 70-71, on gold, are reprinted in No. 399.
 - On the geology of the country north of lake Ontario, in a general line between the neighbourhood of Kingston and that of lake Simcoe. By A. Murray.
 - On mineral waters of Chambly, St. Ours, the Jacques Cartier river, Nicolet, and La Baie, Que.; minerals and iron ores from Ontario and Quebec; with analyses. By T. S. Hunt.
- †11. (E) **Report of Progress for the years 1853-54-55-56.** Published in English and French, Toronto, 1857. 8vo. pp., English iv, 494, French iv, 509.
- †510. (F) With maps Nos. 12 to 15, and 4 other illustrations. Accompanied by an atlas (No. 16) containing maps Nos. 17 to 38. See note on p. 12.
- Contains the following reports:
- Summary report of the director. By W. E. Logan.
 - On the geology and economic minerals of parts of the counties of Argenteuil, Terrebonne, and Montcalm, Quebec; and on the preparation of the geological map of Canada. With map No. 12 and 2 other illustrations. By W. E. Logan.
 - Report for the year 1853. On the geology and topography of the Muskoka, Petawawa, Bonnechère, and Madawaska rivers. With maps Nos. 15, and 30 to 38. By A. Murray.
 - Report for the year 1854. On the geology and topography of the valley of the Maganatawan river and parts of the south and east shores of lake Nipissing, with several of their more important tributary streams and adjoining lakes. With maps Nos. 15, 24, 26 to 29. By A. Murray.
 - Report for the year 1855. On fossiliferous rocks of Western Canada, and on the geology and topography of part of the west coast of lake Nipissing and south channel of French river. With maps Nos. 21, 24, 25, 26. By A. Murray.
 - Report for the year 1856. On the geology and topography of the Sturgeon, Maskinongé, French, and Wanapitei rivers, and Whitefish river and its lakes. With maps Nos. 14, 17 to 25, and 1 other illustration. By A. Murray.
 - Report for the year 1856. On the geology and topography of the island of Anticosti, and the Mingan islands. With map No. 13, and 1 other illustration. By J. Richardson.
 - Report for the year 1856. On fossils from Anticosti, and on new species of fossils from the Silurian rocks of Canada (chiefly from the vicinity of Ottawa, Montreal, and Quebec). With errata slip. By E. Billings.

Report for the year 1853. On the geological distribution of mineral waters of Canada; waters of the St. Lawrence and Ottawa rivers; limestones and dolomites from Ontario; fossil shells, etc.; assays of galena and gold. By T. S. Hunt.

NOTE: pp. 370-371, on gold, are reprinted in No. 399.

Report for the year 1854. On the triclinic feldspars of the Laurentian series; Silurian rocks; and nickel ores; with analyses. By T. S. Hunt.

Report for the year 1855. On the metallurgy of iron; extraction of salts from sea-water; magnesian mortars; purification of plumbago; peat and products derived from it. By T. S. Hunt.

Report for the year 1856. On the rocks of the Silurian and Laurentian series, and igneous rocks near Montreal; with analyses. By T. S. Hunt.

Accompanying Maps (in the volume): See also Atlas, No. 16.

- †12 Plan showing the distribution of crystalline limestones of the Laurentian series in various townships between Grenville and Rawdon. 1856. Scale: 3 miles to 1 inch.

NOTE: Not issued separately.

13. Plan of the island of Anticosti. Taken from Bayfield's charts. Scale: 9 miles to 1 inch.

NOTE: *Re* this map, in the Canadian Journal, May, 1858, No. 15, p. 261, Sir Wm. Logan wrote the following correction: "A, B, C, and D, indicating the divisions of Mr. Richardson's map, are each one place out of position. The narrow division along the north coast should be marked A. The division A, as shown in the map, should be B; B should be C; C should be D; D should be E1; and E should be E2. F is placed correctly. Of course, the base of the Middle Silurian must be removed one place to the north, with the division to which it belongs". The cloth-bound English edition of report contains corrected map.

- †14. Index to the plans [Nos. 17-27] showing the explorations on the north shore of lake Huron and thence eastward to the Ottawa. Scale: 10 miles to 1 inch.

- †15. Index of the plans [Nos. 28-38] showing the explorations between the east shore of lake Huron and the Ottawa. Scale: 10 miles to 1 inch.

Accompanying Atlas:

- †16. (E) Plans of various lakes and rivers between lake Huron and the river
 †511. (F) Ottawa, to accompany the geological reports for 1853-54-55-56. An atlas published in English and French, Toronto, 1857, in two sizes, quarto and large folio. (See also note on p. 12.) Contains plans Nos. 17 to 38 (bearing geological notes) on a scale of 1 mile (80 chains) to 1 inch, lithographed on sheets of 22 by 33 inches (paged consecutively, on back of sheets, 1-22), as follows:

Plans showing explorations on the north shore of lake Huron and thence eastward to the Ottawa:

- †17. Sheet 1. Topographical plan of the Spanish river. [Surveyed] 1848.
 †18. Sheet 2. Topographical plan of part of the Spanish and Whitefish rivers. [Surveyed] 1848-56.
 NOTE: Includes lake Panache.
 †19. Sheet 3. Topographical plan of the mouth of the Whitefish river. [Surveyed] 1856-57.
 NOTE: Includes coast of lake Huron to pointe des Grondines.
 †20. Sheet 4. Topographical plan of part of Wanapitei river and of Wanapiteiping and adjoining lakes. [Surveyed] 1856.
 NOTE: Includes Maskinongé lakes and river.
 †21. Sheet 5. Topographical plan of part of the Wanapitei river. [Surveyed] 1855-56.
 †22. Sheet 6. Topographical plan of part of the French and Wanapitei rivers. [Surveyed] 1847, 1855-6-7.
 NOTE: Includes lower part of French river.

- †23. Sheet 7. Topographical plan of part of the Sturgeon river. [Surveyed] 1856.
- †24. Sheet 8. Topographical plan of part of lake Nipissing and Sturgeon river. [Surveyed] 1854-55-56.
- †25. Sheet 9. Topographical plan of part of the French river. [Surveyed] 1854-55-56 and 1847.
- †26. Sheet 10. Topographical plan of part of river Mattawa and part of lake Nipissing. [Surveyed] 1845 and 1854.
NOTE: Includes Namanitigong river.
- †27. Sheet 11. Topographical plan of the rivers Ottawa and Mattawa. [Surveyed] 1854.
- Plans showing explorations between the east shore of lake Huron and the Ottawa river.
- Topographical plan of the river Maganatawan. [Surveyed] 1854:
- †28. Sheet 1. [From its mouth to Wawaskesh lake.]
- †29. Sheet 2. [Wawaskesh lake to its source.]
- Topographical plan of the rivers Muskoka and Petawawa. [Surveyed] 1853:
- †30. Sheet 1. [Muskoka river from lake Huron to Mary lake, and northern part of Muskoka lake.]
- †31. Sheet 2. [Muskoka river from Mary lake to Canoe lake.]
- †32. Sheet 3. [Headwaters of Muskoka and Petawawa rivers.]
- †33. Sheet 4. [Petawawa river, Cedar and Trout lakes.]
- †34. Sheet 5. [Petawawa river.]
- Plans of Bonnechère, Madawaska, and Shawashkong [York] rivers and sources of the Otonabee.
- Topographical plan of the river Bonnechère & S. W. branch of the Madawaska, with a sketch of the headwaters of the Otonabee. [Surveyed] 1853:
- †35. Sheet 1. [Bonnechère river from its mouth to Golden lake, and part of Clear lake.]
- †36. Sheet 2. [Bonnechère river from Golden to Round lake, Little Madawaska river, lake Kamaniskaik, and York river.]
- †37. Sheet 3. [York river to Papineau lake and headwaters of Burnt river.]
- †38. Sheet 4. [Drag lake, Kashagawi lake, Gull river, and Balsam lake.]
- †39. (E) **Report of Progress for the year 1857.** Published in English and French, Toronto, 1858. 8vo. pp., English iv, 240, and errata slip, French 235. With maps Nos. 42 to 45, folding sheet of sections, and 25 other illustrations. See note on p. 12.
- †512. (F) Contains the following reports:
- Summary report of the director. By W. E. Logan.
- On the topography and geology of the coast of Georgian bay at the mouths of the French river; on Echo lake and its environs; and on the Huronian limestone near Bruce mine. With map No. 42, and 1 other illustration. (See also map No. 22.) By A. Murray.
- On the topography and geology of Magdalen river and part of the Gaspé peninsula from Magdalen river to Gaspé bay; and of lake St. John. With maps Nos. 43, 44, 45, and folding sheet of sections. By J. Richardson.
- On the fauna of portions of the lower St. Lawrence, Magdalen, and Saguenay rivers, and lake St. John. With errata slip. By R. Bell.
- †40. Report on Canadian graptolites. Montreal, 1858. pp. 39. By J. Hall.
- Description and geology of lake Clear; on the fauna of the Black River limestone; on the Galt limestone, Onondaga and Corniferous limestones; and descriptions of Silurian and Devonian fossils. With 24 illustrations. By E. Billings. See also No. 41.
- †41. Canadian fossils, containing descriptions of new genera and species, from the Silurian and Devonian formations of Canada; with some species previously described, but now for the first time indicated as occurring in Canada. (Extracted from the report of the Geological Survey of Canada for the year 1857). Montreal, [1857]. 8vo. pp. 31. With 24 illustrations. By E. Billings.

NOTE: Reprint of pp. 165-192 of No. 39. Part of the edition has blank covers. Cover-title reads: "Canadian fossils, descriptions of some new genera and species, Silurian and Devonian formations of Canada".

On dolomites and magnesian limestones, and fish manures, with analyses. By T. S. Hunt.

On the longitude of some of the principal places in Canada [Quebec, Toronto, Kingston, Montreal, Windsor, Collingwood, and Ottawa], as determined by electric telegraph in the years 1856-57. Also: Abstract of the telegraphic observations determining the longitudes of several places in North America. By E. D. Ashe.

Accompanying Maps:

†42. Plan showing the distribution of the Huronian limestone between Root river and Bruce Mines. Scale: 4 miles to 1 inch.

†43. Plan showing the distribution of the Devonian and Silurian formations in a part of Gaspé. Scale: 6 miles to 1 inch.
NOTE: Not issued separately.

†44. Topographical plan of the Magdalen river. Scale: 80 chains to 1 inch.
NOTE: Not issued separately.

†45. Plan showing the distribution of the Laurentian and Lower Silurian rocks in the vicinity of lake St. John. Scale: 4½ miles to 1 inch.
NOTE: Not issued separately.

46. (E) **Report of Progress for the year 1858.** Published in English and French, Montreal, 1859. 8vo. pp., English iv, 263, French 267. With plans Nos. 47, 48, 49, and folding section. See note on p. 12.

†513. (F)

Contains the following reports and appendices:

On the distribution of Laurentian limestones and drift along the Rouge river; on economic materials from various localities; and a note on the general geological map and report. With map No. 47. By W. E. Logan. See also appendices I, II, and IV.

On the topography and geology of the country between the valley of the Thessalon river and the coast of lake Huron, and between the valleys of the Thessalon and the Mississagi. With plan No. 48 and folding section. By A. Murray. See also appendix III.

On a portion of the Gaspé peninsula, including an examination of the coast from Marsouin river to rivière du Loup. With plan No. 49. By J. Richardson. See also appendix V.

On intrusive rocks from various localities, and some minerals from Silurian rocks, with analyses; and further contributions to the history of magnesian limestones. By T. S. Hunt.

Appendix I. [To report by W. E. Logan.] Levels of the river Rouge and its tributaries. By W. E. Logan.

Appendix II. [To report by W. E. Logan.] List of localities showing traces of copper ore in the Lower Silurian rocks of Canada East, more particularly in the magnesian group of Quebec occurring at the summit of the Hudson River formation, and intermediate between what has occasionally been called the Richelieu shales and the Sillery sandstones. The localities are given going from west to east, and the list is intended, not to show workable quantities, but the distribution of the metal in the magnesian rocks. By W. E. Logan.

Appendix III. [To report by A. Murray.] Localities showing copper lodes and traces of copper ore on the Mississagi river, lake Huron. By A. Murray.

Appendix IV. [To report by W. E. Logan.] Catalogue of animals and plants collected and observed in the valley of the river Rouge and the neighbouring townships in the counties of Argenteuil and Ottawa. By W. S. M. D'Urban.

NOTE: This catalogue does not contain the plants, the manuscript having been lost just before publication. See also No. 463.

Appendix V. [To report by J. Richardson.] Catalogue of animals and

- plants collected and observed on the southeast side of the St. Lawrence, from Quebec to Gaspé, and in the counties of Rimouski, Gaspé, and Bonaventure. By R. Bell. See also No. 463.
- †463. Contributions to Canadian natural history. (Extracted from the report of the Geological Survey for 1858). Montreal, 1860. 8vo. pp. 40. By W. S. M. D'Urban and R. Bell.
NOTE: Reprint of Appendices IV and V to Report of Progress, 1858.
- Accompanying Maps:*
- †47. Plan showing the distribution of crystalline limestones of the Laurentian series in the counties of Argenteuil and Ottawa. Scale: 3 miles to 1 inch.
NOTE: Not issued separately.
- †48. Plan showing the distribution of the Huronian rocks between rivers St. Mary and Mississagi. Scale: 3 miles to 1 inch.
NOTE: Not issued separately.
- †49. Plan showing the distribution of the Devonian and Silurian formations in a part of Gaspé. Scale: 6 miles to 1 inch.
NOTE: Not issued separately.
- Note:** Up to 1860 the Reports of Progress were also printed in the Appendices (called Sessional Papers from 1860 on) to the Journals of the Legislative Assembly of the Province of Canada, in English and French. The appendices in which they are to be found are as follows:
- | | | Report of Progress. | |
|---------|--|---------------------|--------------------------|
| Session | 1844-45 vol. IV, | Appendix No. 1 (W). | 1843. |
| " | 1846, " V, | " No. 3 (G.G.G.). | 1844. |
| " | 1847, " VI, | " No. 1 (C). | 1845-46 and 1846-47. |
| " | 1849, " VIII, | " No. 1 (G). | 1847-48. |
| " | 1850, " IX, | " No. 1 (V). | 1848-49 and 1849-50. |
| " | 1852-53, " XI, | " No. 3 (O). | 1850-51 and 1851-52. |
| " | 1854-55, " XIII, | " No. 8 (L). | 1852-53. |
| " | 1857, " XV, | " No. 9 (52). | 1853-54-55-56. |
| " | 1857, " XV, | " No. 12. | Atlas for 1853-54-55-56. |
| " | 1858, " XVI, | " No. 7 (32). | 1857. |
| " | 1860, " XVIII, Sess. Paper No. 3 (24). | | 1858. |
- †51. **Geology of Canada, 1862.** Montreal, 1862. 8vo. pp. iii, 464. With a preface by W. E. Logan, dated 20th March, 1862, and 432 illustrations.
NOTE: An advance edition of pp. 1-464 of No. 50.
- †50. (E) **Geological Survey of Canada. Report of Progress from its commencement to 1863.** Published in English 1863, and in French 1864, Montreal. 8vo. pp., English xxvii, 983, and errata slip, French xxvii, 1043. With 498 illustrations, appendix, and index. Accompanied by an atlas of maps and sections. Preface by W. E. Logan.
- †514. (F) **Appendix.**
I. A tabular view of the rocks of Great Britain and North America; with notes.
II. A catalogue of the Lower Silurian fossils of Canada.
III. Additional figures of Palæozoic fossils and figures of some from the recent deposits.
NOTE: This volume "contains, in a condensed form, the substance of all the previous reports, with much original matter." Cover-title reads: "Geology of Canada, 1863." Observations on gold, pp. 518-520, and 739-745, were reprinted in No. 399.
- †52. (E) **Geological Survey of Canada. Report of Progress from its commencement to 1863. Atlas of maps and sections, with an introduction and appendix.** Montreal, 1865. 8vo. pp., English 42 and errata slip, French 46. Preface by W. E. Logan.
- †515. (F) **Appendix.**
I. A list of the publications of the Geological Survey of Canada—including Reports of Progress and Contributions to Palæontology.
II. A table of the variations of the magnetic needle for various stations in British North America in the year 1856.

NOTE: The introduction gives the sources of topographical information, a catalogue of the maps and charts used, and the sources of geological information for the general map of Canada and the adjacent regions (No. 53). Cover-title reads: "Geology of Canada, 1863. Atlas."

Contains the following maps and sections:

- †53. Geological map of Canada and the adjacent regions, including parts of other British provinces and of the United States. 1865 (dated 1864). Scale: 125 miles to 1 inch.
- †54. Map showing the distribution of Laurentian rocks in parts of the counties of Ottawa, Terrebonne, Argenteuil, and Two Mountains. 1862. Scale: 7 miles to 1 inch.
- †55. Map showing the distribution of the Huronian rocks between rivers Batchawana and Mississagi. Scale: 8 miles to 1 inch.
- †56. Map showing the distribution of rocks belonging to the Potsdam, Quebec, and Trenton groups, on the east side of lake Champlain in the neighbourhood of the line between Canada East and Vermont. Scale: 2 miles to 1 inch.
Five uncoloured sections accompanying map No. 56. Scale: horizontal and vertical, 3 miles to 1 inch.
1. Section on the twenty-ninth lot of St. Armand, Que.
2. Section on the province line, eastward from lake Champlain.
3. Section at Highgate Springs, Vermont.
4. Section near Swanton Falls, Vermont.
5. Section at Smith's lime-works in Swanton, Vermont.
- †57. Plan showing the distribution of limestone conglomerates in the Quebec group at point Lévis, 1862. Scale: $\frac{1}{4}$ mile to 1 inch.
Uncoloured section accompanying plan No. 57:
Section on the northeast line of the fief Ste. Anne, point Lévis. Scale: $\frac{1}{4}$ mile to 1 inch.
NOTE: Not issued separately.
- †58. Map showing the distribution of various superficial deposits between lake Superior and Gaspé. Scale: 125 miles to 1 inch.
Four plates of coloured sections, twelve in number, illustrating the geology of Canada and adjacent portions of the United States. Scale: 5 miles to 1 inch.
Contents of plates:
- †59. Plate I:
Section No. 1. Echo river, lake George, Canada W., to Saginaw bay, Michigan, U.S.
Section No. 1A. Little White river to the mouth of Blind river, lake Huron, Canada W.
- †60. Plate II:
Section No. 2. Somerville, Canada W., to Nittany valley, Clinton co., Pennsylvania, U.S.
Section No. 3. Eardley, Canada E., to Oswego co., New York, U.S.
- †61. Plate III:
Section No. 4. Buckingham, Canada E., to East Pierrepont, St. Lawrence co., New York, U.S.
Section No. 5. Chatham, Canada E., to Chateaugay Four Corners, Franklin co., New York, U.S.
Section No. 6. Petite Nation, Canada E. by St. Jerome to provincial boundary line, St. Armand, Canada E.
Section No. 7. Mille Isles to Shefford mountain, Canada E.
- †62. Plate IV:
Section No. 8. Shawinigan to Tingwick, Canada E.
Section No. 9. Bourg Louis to St. Etienne, Canada E.
Section No. 10. Ste. Anne des Monts on the river St. Lawrence to the mouth of the Great Cascapedia river, Chaleur bay, Canada E.
Section No. 11. Mingan islands by Anticosti island to cap d'Espoir, Chaleur bay, Canada E.

63. (E) **Report of Progress from 1863 to 1866.** Published in English and French,
 †516. (F) Ottawa, 1867 (dated 1866). pp., English viii, 321, French x, 332.
 Contains the following reports:
- Summary report of the director. Dated 15th May, 1866. (Contains notes on the Quebec group; the distribution of Laurentian limestones in Ottawa, Argenteuil, Montcalm, and Two Mountains counties, Quebec; on occurrences of *Eozoon*: on barite, galena, magnetite, hematite, and graphite, in Ottawa and Argenteuil counties, Quebec.) By W. E. Logan.
- On the examination of the structure of the Quebec group of rocks in the Eastern Townships with notes on the economic minerals. By J. Richardson.
- †64. **Report on the gold region of Lower Canada.** By A. Michel and T. S. Hunt.
 NOTE: Separate was published under title: "Reports of Mr. A. Michel and Dr. T. S. Hunt on the gold region of Canada, transmitted by Sir W. E. Logan to the Hon. Commissioner of Crown Lands, February 14, 1866." Montreal, 1866. 8vo. pp. 72. Text of Michel's report is in both English and French. The report was also issued by the Crown Lands Department (probably in advance), Ottawa, 1866. 8vo. pp. 28. Text of Michel's report in English only. The report in this form was included in former lists of publications under the number "460," which has now been otherwise assigned.
- On the geology and economic minerals of the north riding of the county of Hastings, townships of Elzevir, Madoc, Marmora, Lake, and Tudor. By T. Macfarlane.
- On the Laurentian, Huronian, and Upper Copper-bearing rocks, and the economic minerals of Michipicoten island and the east shore of lake Superior. With appendix. By T. Macfarlane.
- Appendix. On the rocks and cupriferous beds of Portage lake, Michigan. By T. Macfarlane.
- On the geology of Grand Manitoulin island and the smaller islands immediately adjacent. (See maps Nos. 570 and 605.) By R. Bell.
- On the geology and mineralogy of the Laurentian limestones; geology of petroleum and salt; the porosity of rocks; and on peat and its applications. By T. S. Hunt.
 NOTE: The first part of this report, pp. 181-223, was reprinted, with a few additions, in Appendix E, Report of the Regents of the University on the New York State Cabinet of Natural History for 1867 (published 1871). Copies were distributed by the Survey. See No. 472.
- †472. **Laurentian limestones of North America.** Albany, 1871. - 8vo. pp. 54. By T. S. Hunt.
- Appendix [to report by J. Richardson]. List of localities in which ores of copper have been met with in rocks of the Quebec group in Eastern Canada.
- †66. **Summary Report of progress in geological investigations.** Dated 1st May, 1869. Ottawa, 1869. 8vo. pp. 9. By W. E. Logan.
 NOTE: Also printed in Sessional Papers, 1869, volume II, No. 5 (40), in English and French. Summarized preliminary reports contained in it are noted under the final reports.
- †67. (E) **Summary Report on the Geological Survey.** Dated 2nd May, 1870.
 †117. (F) Published in English and French, Ottawa, 1870. 8vo. pp., English 14, French 13. (Contains (in addition to others noted under the final reports) summaries, by the director, of explorations of A. Webster in the St. Maurice River region, Quebec; and of W. McQuat in Ottawa, Montcalm, and Joliette counties, Quebec.) By A. R. C. Selwyn.
 NOTE: Cover-title reads: "Summary Report of progress in geological investigations." This report was also printed in Sessional Papers 1870, vol. III, No. 6 (86), in English and French. The publication number "117" of French edition was assigned in

former catalogues to report by T. S. Hunt on the Goderich salt region, not published in separate form by the Survey. See Report of Progress for 1876-77.

- †68. (E) **Report of Progress from 1866 to 1869.** Published in English 1870 and French 1871, Montreal. 8vo. pp., English vi, 475, and errata slip, French vi, 530. With maps Nos. 78 to 82, and 1 other illustration. Contains the following reports and postscript:
- †540. (F)
- On the part of the Pictou coal field east of the East river, Nova Scotia. With map No. 82, and 1 other illustration. By W. E. Logan. See also No. 69.
- On the part of the Pictou coal field west of the East river, Nova Scotia. By E. Hartley. See also No. 69.
- NOTE: The above two reports and No. 75 were published together as a separate. See No. 69.
- †69. Reports on a part of the Pictou coal field, Nova Scotia, with an appendix on coal and iron ores, and a geological map. Montreal, 1870. 8vo. pp. ii, 186, and errata slip. With map No. 82, 1 other illustration, and table of contents. By W. E. Logan and E. Hartley.
- NOTE: For preliminary report, summarized by Logan, see No. 66, also, by Selwyn, see No. 67.
- On the topography, geology, and economic materials of the Manitoulin Island group. (See Appendix (No. 77) and maps Nos. 570 and 605.) By R. Bell.
- On the country bounded on the northwest by the St. Lawrence and on the southeast by the Quebec Province line, and extending from the Chaudière river to a point beyond Temiscouata Portage road. With map No. 80. By J. Richardson.
- NOTE: For preliminary report, summarized by Logan, see No. 66.
- †70. On the geology and economic minerals of parts of Hastings, Addington, and Peterborough counties. With map No. 79. By H. G. Vennor.
- NOTE: Separate was published under title: "Report of Henry G. Vennor on the geology of Hastings county, Ontario, with a map of the region." Montreal, 1870. pp. 31. For preliminary report, summarized by Logan, see No. 66.
- On the geology of a part of New Brunswick. With map No. 81. By C. Robb.
- NOTE: For preliminary report, summarized by Logan, see No. 66.
- †71. On the Goderich salt region; iron and iron ores; with analyses. By T. S. Hunt.
- †72. NOTE: Separates of each of the two parts of this report were published under titles: "Report on the Goderich salt region," Montreal, 1870. pp. 36. (No. 71), and "Notes on iron and iron ores," Montreal, 1870. pp. 64. With table of contents. (No. 72.)
- †73. On a geological examination of the north shore of the lower St. Lawrence from the Saguenay river to the bay of Seven Islands. By J. Richardson.
- NOTE: Separate was published under title: "Report on a geological exploration on the north shore of the lower St. Lawrence." Montreal, 1870. pp. ii, 7.
- †74. On the geology and economic minerals of the northwest coast of lake Superior and adjoining country from Pigeon river to Black bay, Black Sturgeon river, Nipigon river, and lake Nipigon. With map No. 78. By R. Bell.
- NOTE: Separate was published under title: "Report on the geology of the northwest side of lake Superior, and of the Nipigon district." Montreal, 1870. pp. 59. Contains also the "Postscript" by W. E. Logan. (See page 16.) For remarks by A. R. C. Selwyn see No. 67.

- †75. Report on the coals and iron ores of Pictou county, Nova Scotia, being an appendix to reports on the Pictou coal field. With analyses. Montreal, 1870. pp. ii, 78. By E. Hartley. See also No. 69.
NOTE: Errata slip in separate. For remarks by A. R. C. Selwyn see No. 67.
- †76. Notes on coal from the Springhill coal-field, county Cumberland, Nova Scotia. With analyses. By E. Hartley.
NOTE: Separate was published under title: "Notes on coal from Springhill, county Cumberland, Nova Scotia." No date or place of publication. pp. 11.
77. Appendix [to report by R. Bell]. On the plants of the Manitoulin islands. By J. Bell.
NOTE: Includes plants from Bruce Mines, Owen Sound, etc. Separate was published under title: "List of plants of the Manitoulin islands, lake Huron." Montreal, 1870. pp. 23.
Postscript. Notes on the report of Robert Bell on the Nipigon region. (See No. 74.) By W. E. Logan.
- Accompanying Maps:*
- †78. Map of the Thunder Bay and Lake Nipigon regions. 1869. Scale: 4 miles to 1 inch. (3 sheets.)
79. Map showing the distribution of the rock formations in parts of the counties of Peterborough, Hastings, Addington, and Frontenac, province of Ontario. Scale: 4 miles to 1 inch.
- †80. Map showing the distribution of Lower Silurian rocks between the Chaudière and Trois Pistoles rivers, south side of the river St. Lawrence, province of Quebec. Scale: 8 miles to 1 inch.
- †81. Sketch map of the counties of York, Carleton, and part of Victoria, province of New Brunswick. Scale: 8 miles to 1 inch.
- †82. Geological map of the Pictou coal-field, province of Nova Scotia. Scale: 1 mile to 1 inch.
- †83. (E) Report of Progress for 1870-71. Published in English 1872 (2 editions,
†543. (F) one with errata slip), and French 1873, Ottawa. Svo. pp., English vii, 351, and errata slip, French v, 358.
Contains the following reports:
- Summary report of the director¹. Dated 1st May, 1871. (Includes extracts from E. Hartley's correspondence regarding work by him (terminated by his death) in the Pictou and Cape Breton coal-fields, N.S., and at the Albert mine, N.B., and a summary of report by J. Lowe on mapping of Laurentian limestones on the upper waters of the Rouge, North Petite Nation, and Mattawin rivers, on which no further reports by them have been published.)
- Preliminary report on the geology of southern New Brunswick. By L. W. Bailey and G. F. Mathew.
NOTE: For remarks by W. E. Logan and A. R. C. Selwyn see Nos. 66 and 67, also 83 (summary report of the director).
- Supplementary report on the geology of northwestern New Brunswick. By C. Robb.
- Notes and observations on the gold fields of Quebec and Nova Scotia. By A. R. C. Selwyn.
NOTE: Includes notes by E. Billings on the geological horizon of *Eophyton*.
- Report on the country north of lake St. John. By J. Richardson.
- Abstract of a report on the geology of parts of the counties of Frontenac, Leeds, and Lanark (Ontario). By H. G. Vennor.
NOTE: For preliminary report (on part of the region), summarized by Selwyn, see No. 67.

¹The title of the Summary reports in the Reports of Progress from 1870-71 to 1876-77 reads "Summary report of geological investigations", and in those from 1877-78 to 1882-83-84 "Summary report of the operations of the geological corps". As these reports contain also many details regarding the museum, library, publications, etc., they have been listed under the more comprehensive title "Summary report of the director."

- Notes on the phosphate of lime and mica found in North and South Burgess, and North Elmsley (Ontario). By G. Broome.
- Report on the country north of lake Superior, between the Nipigon and Michipicoten rivers. By R. Bell.
- †84. **Report of Progress for 1871-72.** Published only in English, Montreal, 1872. 8vo. pp. 154. With maps Nos. 87, 88, and 1 other illustration.
NOTE: Published in English and French in Sessional Papers, 1872. Vol. V, No. 7, Report No. 31, Ottawa, 1873.
Contains the following reports:
Summary report of the director¹. Dated 20th May, 1872. By A. R. C. Selwyn.
Journal and report of preliminary explorations in British Columbia. (Includes report, with analyses, by T. S. Hunt, on silver ore from the Eureka mine, near Fort Hope; coal from the Nicola river; lignites from the Fraser river at the mouth of the Quesnel; and volcanic rocks from near Quesnel.) By A. R. C. Selwyn.
Report on the coal-fields of the east coast of Vancouver island, with a map of their distribution (No. 87). With "Note by Dr. [J. W.] Dawson on the fossil plants referred to in Mr. Richardson's report" and "Analyses of coals and crystalline rocks from Vancouver island, by Dr. T. Sterry Hunt." By J. Richardson.
Report on the country between lake Superior and the Albany river. By R. Bell.
Report on exploration of country between lake St. John and lake Mistassini. By W. McOuat.
- †85. **Progress report of exploration and surveys in the counties of Leeds, Frontenac, and Lanark, with notes on the gold of Marmora.** With "Assays by Dr. B. J. Harrington", map No. 88, and 1 other illustration. By H. G. Vennor.
NOTE: Separate was published under title: "Report on parts of the counties of Leeds, Frontenac, and Lanark, with notes on the gold of Marmora". Montreal, 1873, pp. 24 (renumbered).
Report of progress of geological investigations in New Brunswick. (See maps Nos. 143 to 146.) By L. W. Bailey.
- †86. **Records of mines and mineral statistics [1869, 1870, and 1871].** pp. 9. Compiled by C. Robb.
NOTE: Separate has no cover, date, or place of publication.
- Accompanying Maps:*
- †87. Map showing the position of the coal fields of Nanaimo and Comox, Vancouver island. Scale: 10 miles to 1 inch.
NOTE: Not issued separately.
- †88. Map of the township of Marmora showing the position of the mines now being worked for gold. Scale: 1 mile to 1 inch.
NOTE: Not issued separately.
- †89. (E) **Report of Progress for 1872-73.** Published in English and French, Montreal, 1873. 8vo. pp., English xii, 300, French xii, 364. With map No. 90, plans 91, 92, 93, and 14 other illustrations.
†547. (F) Contains the following reports:
Summary report of the director¹. Dated May, 1873. By A. R. C. Selwyn.
Notes of a preliminary geological reconnaissance from lake Superior, by the English and Winnipeg rivers, to Fort Garry. By A. R. C. Selwyn.
Report upon the Acadia iron ore deposits of Londonderry, Colchester county, N.S. With plans Nos. 92 and 93. (See also map No. 836.) By A. R. C. Selwyn.
Notes on samples of iron from the Acadia mines, Nova Scotia. With analyses. By B. J. Harrington.
Report on the coal-fields of Vancouver and Queen Charlotte islands, with a

¹ See foot-note on p. 16.

- map of the distribution of the former (No. 90). With 1 illustration and appendices I to IV. By J. Richardson.
- Appendix I. Note on the fossil plants from British Columbia, collected by James Richardson in 1872. With 12 illustrations and inserted slip (explanation of plate). By J. W. Dawson.
- Appendix II. On the Mesozoic fossils from British Columbia, collected by James Richardson in 1872. By E. Billings.
- Appendix III. The coals of the west coast, iron ores, brine, and crystalline rocks, with analyses. By B. J. Harrington.
- Appendix IV. Copy of correspondence relating to the anthracite of the Queen Charlotte islands.
- Report on the country between lake Superior and lake Winnipeg. By R. Bell.
- Report of an examination of the country between lakes Timiskaming and Abitibi. By W. McOuat.
- Report of explorations and surveys in the counties of Addington, Frontenac, Leeds, and Lanark. With plan No. 91 and 1 other illustration. By H. G. Vennor.
- Report of observations on the Carboniferous system of New Brunswick, in the counties of Queens, Sunbury, and a portion of York. With appendix. (See maps Nos. 143 to 146.) By L. W. Bailey and G. F. Matthew, assisted by R. W. Ells.
- Appendix. Return of borings of the Salmon River coal mines. From Dr. A. Gesner's 3rd report to the Legislature of New Brunswick.
- Report of operations in boring for coal with the diamond-pointed steam drill at Newcastle Bridge, Queens county, New Brunswick. By R. W. Ells.
- Report on the coal mines of the eastern or Sydney coal-field of Cape Breton, N.S. By C. Robb.
- [Appendix]. Remarks extracted from Mr. Rutherford's [Inspector of Mines for Nova Scotia] report for 1866.
- Notes on samples of brick-clay from Fort Garry; analyses of serpentine from Abitibi and green mineral from Carboniferous conglomerate, New Brunswick. By B. J. Harrington.
- Accompanying Map and Plans:*
- †90. Map of a part of the strait of Georgia and of Vancouver island, showing a portion of the Comox coal-field and the distribution of the Cretaceous coal-bearing rocks. Scale: 2 miles to 1 inch.
- †91. Dalhousie iron mine, Lanark county, Ont. Plan and cross-sections. Scale: 50 feet to 1 inch.
NOTE: Small inset sketch-plan has scale of 1,000 feet to 1 inch.
- †92. Acadia iron mines. Profile on line of ore. Scale: 660 feet to 1 inch.
- †93. Plan of Acadia iron mines. Western section. Scale: 400 yards to 1 inch.
- †94. (E) **Report of Progress for 1873-74.** Published in English 1874, and French 1875, Montreal. 8vo. pp., English, xiv, 268, French xiv, 326. With maps Nos. 98, 100, plan No. 99, and 11 other illustrations. Map No. 98, published 1875, is included in French, but was supplied separately for English edition.
- †548. (F) Contains the following reports:
Summary report of the director¹. Dated May, 1874. With appendices I and II. (Includes report of the chemical and mineralogical branches by B. J. Harrington.) By A. R. C. Selwyn.
Appendix I. Correspondence re proposed operations during the ensuing summer. By A. R. C. Selwyn.
Appendix II. Report of operations in Manitoba with the diamond-pointed steam drill, 1873. By W. B. Waud.
- Observations in the North West Territory on a journey across the plains from Fort Garry to Rocky Mountain House, returning by the Saskat-

¹ See foot-note on p. 16.

- chewan river and lake Winnipeg. With 2 illustrations and appendix. See map No. 98. By A. R. C. Selwyn.
- Appendix. Memorandum on western coals, iron ore, etc. With analyses. By B. J. Harrington.
- Report on the country between Red river and the South Saskatchewan, with notes on the geology of the region between lake Superior and Red river. With appendix. By R. Bell.
- Appendix. Analyses of lignites. By G. C. Hoffmann.
- NOTE: The map mentioned in this report was not published.
95. Report on geological explorations in British Columbia. Montreal, 1874. pp. 13. With table of contents (in separate). By J. Richardson.
- Report of explorations and surveys in Frontenac, Leeds, and Lanark counties, with notes on the plumbago of Buckingham, and apatite of Templeton and Portland townships, Ottawa county. With plan No. 99. By H. G. Vennor.
- Report on the exploration and survey of the Springhill coal field, Cumberland county, Nova Scotia. With map No. 100 and 2 sections. (See also maps Nos. 230 and 812.) By S. Barlow.
- NOTE. For preliminary report, summarized by Selwyn, see summary report of the director in No. 84.
- Report on a portion of the coal field of Cumberland county, Nova Scotia. With map No. 100. By W. McOuat.
- Report on explorations and surveys in Cape Breton, Nova Scotia, with supplementary report on collieries in operation. With appendix. By C. Robb.
- Appendix. Notes on specimens of coal from the Inverness coal-field, Cape Breton. By G. C. Hoffmann.
- †96. Notes on the iron ores of Canada and their development. Montreal, 1874. pp. 70. With table of contents (in separate). By B. J. Harrington.
- †97. Notes on the Cretaceous fossils collected by Mr. James Richardson at Vancouver and the adjacent islands. Montreal, 1874. pp. 13. With 7 illustrations. By J. F. Whiteaves.
- NOTE: Author's name in title of separate is misprinted "G. F. Whiteaves". Separate has table of contents.
- †98. *Accompanying Maps and Plan:*
Sketch survey of the Saskatchewan river from Rocky Mountain House to Cumberland lake. 1875. Scale: 16 miles to 1 inch.
- NOTE: Included in the French, but supplied separately for the English volume.
- †99. Plan of a portion of North Burgess, showing position of apatite openings described in Mr. Vennor's report. Scale: $\frac{1}{4}$ mile to 1 inch.
- †100. Index map showing the position of the Spring Hill coal field, and the area to which the reports of Messrs. Scott Barlow and Walter McOuat refer. Scale: 8 miles to 1 inch.
- †101. (E) **Report of Progress for 1874-75.** Published in English and French, Montreal, 1876. 8vo. pp., English xviii, 319, French xvi, 342. With maps Nos. 103 to 106, sheet of sections No. 107, 1 folding table, and 6 other illustrations.
- †549. (F) Contains the following reports:
- Summary report of the director¹. Dated 1st May, 1875. With 1 illustration. (Includes notes by the director on boring operations for coal and water at Rat creek and the vicinity of Fort Ellice, Manitoba, and on Swan river, near Fort Pelly, Saskatchewan; on rocks between Rimouski, Que., and Newcastle, N.B.; hematite in Prince Edward Island; Sydney coal-field and Palæozoic rocks of Cape Breton and Wentworth, N.S.; fossil tracks in Potsdam sandstone, Beauharnois, Que.; fossil plants from Mackenzie river, determined by J. W. Dawson; and results of two analyses of coal from Springhill, N.S.) By A. R. C. Selwyn.

¹ See foot-note on p. 16.

- Report on the country west of lakes Manitoba and Winnipegosis, with notes on the geology of lake Winnipeg. By R. Bell.
- Report on the country between the upper Assiniboine river and lakes Winnipegosis and Manitoba. With 1 illustration. By J. W. Spencer.
- Report on explorations in British Columbia. By J. Richardson.
- Summary report of geological observations in New Brunswick. (See maps Nos. 143 to 146.) By L. W. Bailey and G. F. Matthew.
- Second report on the boring operations with the diamond drill at Newcastle Bridge, Queens co., New Brunswick. With records of borings Nos. 2 and 3. By R. W. Ells.
- Report on the iron ore deposits of Carleton county, New Brunswick. With map No. 104. By R. W. Ells.
- Progress report of explorations and surveys in the rear portions of Frontenac and Lanark counties, together with notes on some of the economic minerals of Ontario. With map No. 103 and 2 sections. By H. G. Vennor.
- Report on explorations and surveys in Cape Breton, Nova Scotia. With maps Nos. 105, 106, sheet of sections No. 107, folding table, and 1 illustration. By C. Robb.
- Observations on the history and statistics of the trade and manufacture of Canadian salt. With tables I to VII. By J. L. Smith.
- Table I. Description of salt works with wells.
- Table II. Description of salt works without wells.
- Table III. Capacity of works and system of manufacture.
- Table IV. Capital and labour employed in 1874.
- Table V. Quantity and value of salt made in the years 1872 and 1873.
- Table VI. Proportion of fine and coarse salt made, with proportions sold in Canadian and United States markets, in the year 1873.
- Table VII. Consumption of wood in 1873.
- †102. Notes on a few Canadian minerals and rocks. With analyses and 1 illustration. pp. 14. By B. J. Harrington.
- NOTE: Separate bears no date or place of publication.
- Chemical contributions to the geology of Canada. By G. C. Hoffmann.
- NOTE: No separate was published. By mistake the number "102" was assigned to this report, as a separate, in former lists of publications.
- Accompanying Maps and Sections:*
- †103. Map of Lanark county and parts of Renfrew and Leeds, province of Ontario. Geologically shaded. Scale: 4 miles to 1 inch.
- †104. Map showing the distribution of the iron ores of Carleton co., New Brunswick. Scale: 2 miles to 1 inch.
- †105. Geological map of the Cape Dauphin district, Cape Breton, Nova Scotia. Scale: $\frac{1}{2}$ mile to 1 inch.
- †106. Geological map of the Sydney coal-field, Cape Breton, Nova Scotia. Scale: 1 mile to 1 inch.
- †107. Sections of the measures in the Sydney coal-field, Cape Breton, Nova Scotia. Scale: 400 feet to 1 inch.
- †108. (E) **Report of Progress for 1875-76.** Published in English and French, Montreal, 1877. 8vo. pp., English xxv, 432, and errata slip, French xxii, 478. With maps Nos. 111, 112, 113, 3 sections, and 15 other illustrations.
- †569. (F) Contains the following reports:
- Summary report of the director¹. Dated May, 1876. By A. R. C. Selwyn.
- Sir William Edmond Logan. [An obituary notice, with biographical sketch.] By B. J. Harrington.
- Report on exploration in British Columbia in 1875. With appendices I, II, and III, map No. 111, and 10 other illustrations. By A. R. C. Selwyn.

¹ See foot-note on p. 16.

- Appendix I. Geological and topographical notes on the lower Peace and Athabaska rivers. By John Macoun.
- Appendix II. Notes on some of the fossils collected during the expedition. By J. F. Whiteaves.
- Appendix III. List of *Coleoptera*. By J. LeConte.
- Report on the flora and agricultural character of the country traversed from Vancouver island to Carlton on the Saskatchewan. With map No. 112, and appendix. By John Macoun.
- Appendix. Catalogue of plants [Saskatchewan, Peace river, Rocky mountains, British Columbia, including Vancouver island.]
- Report on explorations in British Columbia. With 2 sections, and 5 other illustrations. By G. M. Dawson.
- †109. Appendix to Mr. George M. Dawson's report. The insects of the Tertiary beds at Quesnel. By S. H. Scudder.
NOTE: "Appendix to Mr. George M. Dawson's report" omitted and "(British Columbia)" added in cover-title of separate, which bears no date or place of publication. pp. 15.
- Report on the boring operations in the North West Territory, summer of 1875. By R. W. Ells.
- Boring made on Swan river, near Fort Pelly, in 1875. By A. R. C. Selwyn.
- Report on an exploration in 1875 between James bay and lakes Superior and Huron. With postscript on rock specimens from the east coast of Hudson bay; and including notes on fossils from the Grand rapid, Mattagami river, by J. F. Whiteaves. (See maps Nos. 159 and 160.) By R. Bell.
NOTE: Date in title is misprinted "1865".
- Report of progress in the exploration and survey of the coal-fields of Cumberland county, Nova Scotia. (See map No. 230.) By S. Barlow.
- Report of geological observations in southern New Brunswick. (See maps Nos. 143 to 146.) By L. W. Bailey and G. F. Matthew, assisted by R. W. Ells.
NOTE: The map, publication of which is noted in above report as being deferred, has not been published.
- Report of explorations and surveys in Cape Breton, Nova Scotia. With map No. 113, and section. By H. Fletcher.
- Chemical contributions to the geology of Canada. By G. C. Hoffmann.
NOTE: No separate was published. By mistake the number "110" was assigned to this report in former lists of publications.
- Accompanying Maps:*
- †111. Sketch survey of route from Quesnel Mouth [Quesnel] by Stewart and McLeod lakes to the junction of Smoky river and Peace river (2 sheets). Scale: 6 miles to 1 inch.
- †112. Map showing the route travelled by Prof. John Macoun from the forks of Peace and Smoky rivers to Carlton House, Saskatchewan river. Scale: 40 miles to 1 inch.
- †113. Geological map of the Sydney coal-field, Cape Breton, Nova Scotia. Scale: 1 mile to 1 inch. See also maps Nos. 652 and 653.
114. (E) **Report of Progress for 1876-77.** Published in English and French. Montreal, 1878. 8vo. pp., English xii, 531, French xi, 601. With maps Nos. 120 and 121 (not in French edition), 122, 123, 124, folding sheet of sections, 3 folding tables, and 17 other illustrations.
†468. (F) Contains the following reports and an index:
Summary report of the director¹. Dated May, 1877. (Includes brief notes by the director on his preliminary examination of the coast from Little Metis to river Pierre on the gulf of St. Lawrence, to ascertain the true relations of the Quebec group.) By A. R. C. Selwyn.
Report on explorations in British Columbia, chiefly in the basins of the Blackwater, Salmon, and Nechako rivers, and on François lake. With map No. 120 and 7 other illustrations. By G. M. Dawson.

¹ See foot-note on p. 16.

- Report of a reconnaissance of Leech river and vicinity. (Made in April, 1876.) By G. M. Dawson.
- †115. General note on the mines and minerals of economic value of British Columbia, with a list of localities. (Reprinted, with additions and alterations, from the Canadian Pacific Railway report, 1877.) pp. 47. By G. M. Dawson.
NOTE: Separate bears no date or place of publication.
- †116. Notes on some Jurassic fossils, collected by Mr. G. M. Dawson, in the Coast range of British Columbia. pp. 10. With 1 illustration. By J. F. Whiteaves.
NOTE: Separate has no cover, date, or place of publication.
- Report on the coal-fields of Nanaimo, Comox, Cowichan, Burrard inlet, and Sooke, British Columbia. With map No. 121, and 3 other illustrations. By J. Richardson.
- Report on geological researches north of lake Huron and east of lake Superior. (See map No. 159.) By R. Bell.
- The Goderich salt region and Mr. Attrill's exploration. With 1 illustration. (From the Proceedings of the American Institute of Mining Engineers, vol. V.) By T. S. Hunt.
NOTE: The number "117" was assigned in former catalogues to separate (identical in subject matter with above report but without the section, and with a table of contents) from Proceedings of the American Institute of Mining Engineers, Easton, Pa., 1877, pp. 28, of which the Geological Survey had copies for distribution. The number has now been otherwise assigned.
- Progress report of explorations and surveys made during the years 1875 and 1876 in the counties of Renfrew, Pontiac, and Ottawa, together with additional notes on the iron ores, apatite, and plumbago deposits of Ottawa county. With map No. 122. By H. G. Vennor.
NOTE: For preliminary report see summary report of the director in No. 108.
- Report on the slate formations of the northern part of Charlotte county, New Brunswick, with a summary of geological observations in the south-eastern part of the same county. (See map No. 143.) By G. F. Matthew.
- Report on the Lower Carboniferous belt of Albert and Westmorland counties, N.B., including the "Albert shales". With map No. 123, folding sheet of sections, and appendices I and II. (See map No. 230.) By L. W. Bailey and R. W. Ells.
Appendix I. Composition of albertite, as compared with coal and asphalt.
Appendix II. [Report on the property of the Beliveau Albertite and Oil Company.] By L. W. Bailey and R. W. Ells.
- Report on the geology of part of the counties of Victoria, Cape Breton, and Richmond, Nova Scotia. With map No. 124 and 5 other illustrations. By H. Fletcher.
- †118. Additions to the insect-fauna of the Tertiary beds at Quesnel, British Columbia. pp. 8. By S. H. Scudder.
NOTE: Separate bears no date or place of publication.
- Notes on miscellaneous rocks and minerals. With 3 folding tables of coal analyses. By B. J. Harrington.
- †119. Chemical contributions to the geology of Canada. On Canadian graphite. (Contains also analyses of graphite from Ceylon and the United States; and notes, with analyses, on orthoclase from Buckingham, Que.) By G. C. Hoffmann.
NOTE: Separate was published under title: "Report on Canadian graphite, with special reference to its employment as a refractory material". Montreal, no date. pp. iv, 24. With table of contents.
- Accompanying Maps:*
- †120. Geological map of a portion of British Columbia between the Fraser river and the Coast range. [1878.] Scale: 8 miles to 1 inch.

- †121. Map of a portion of British Columbia, showing the coal fields of Comox, Nanaimo, and Cowichan, on Vancouver and adjacent islands, and the distribution of the Cretaceous coal-bearing rocks: also the Tertiary rocks of Sooke and Burrard inlet. [1878.] Scale: 4 miles to 1 inch.
NOTE: The above two maps were also issued in a separate envelope.
- †122. Map showing the distribution of the phosphate of lime rocks and the position of the most important mines in Ottawa county, province of Quebec. [1878.] Scale: 4 miles to 1 inch.
- †123. Geological map of the Lower Carboniferous rocks of Albert and Westmorland counties, New Brunswick, showing the distribution of the Albert shales. [1878.] Scale: 1 mile to 1 inch.
- †124. Geological map of part of Cape Breton [Grand Narrows sheet], Nova Scotia. [1878.] Scale: 1 mile to 1 inch.
125. (E) **Report of Progress for 1877-78.** Published in English 1879, and French (not dated). Montreal. 8vo. pp., English xxiv, 518, French xxiii, 598. With folding sheet of sections and 37 other illustrations. Accompanied by separate portfolio containing maps Nos. 128 to 131. Map No. 127 with sheet containing explanatory note was also issued in 1880, in separate envelope, to accompany this report.
NOTE: The system of designating the individual reports by letters of the alphabet was commenced in this volume.
Contains the following reports:
- †474. (F) Summary report of the director¹, from 1st May to 31st December, 1878. By A. R. C. Selwyn.
- (A) Report of observations on the stratigraphy of the Quebec group and the older crystalline rocks of Canada. By A. R. C. Selwyn.
- (B) Preliminary report on the physical and geological features of the southern portion of the interior of British Columbia, 1877. With folding sheet of sections, 13 other illustrations, and appendices A and B. See map No. 127, published separately in 1880. By G. M. Dawson.
NOTE: The sheet of sections is missing in some copies of the volume.
- †110. Appendix A. The fossil insects collected in 1877 by Mr. G. M. Dawson, in the interior of British Columbia. By S. H. Scudder.
NOTE: Separate was published under title: "Insects from the Tertiary beds of the Nicola and Similkameen rivers, British Columbia". No date or place of publication. pp. 11.
- Appendix B. List of Tertiary plants from localities in the southern part of British Columbia, with the description of a new species of *Equisetum*. By J. W. Dawson.
- (C) Report on an exploration of the east coast of Hudson bay, 1877. With map No. 128, and 9 other illustrations. (Includes list of fossils collected between the Long portage of the Missinaibi branch of the Moose river and Moose Factory, by J. F. Whiteaves; and survey of the Abitibi river by A. S. Cochrane.) See also map No. 159. By R. Bell.
- (CC) Report on the country between lake Winnipeg and Hudson bay, 1878. With maps Nos. 129, 130, and 5 other illustrations. By R. Bell.
- (D) Report on the pre-Silurian rocks of Albert, eastern Kings, and St. John counties, southern New Brunswick. 1877-78. (See maps Nos. 144 and 145.) By R. W. Ells.
- (DD) Report on the pre-Silurian (Huronian) and Cambrian or primordial Silurian rocks of southern New Brunswick. 1877-78. (See map No. 144.) By L. W. Bailey.
- (E) Report on the Upper Silurian and Kingston (Huronian) of southern New Brunswick. 1877. (See map No. 144.) By G. F. Matthew.
- (EE) Report on the superficial geology of southern New Brunswick. 1878. With section. By G. F. Matthew.
- (F) Report of explorations and surveys in Cape Breton, Nova Scotia. With map No. 131. By H. Fletcher.

¹ See foot-note on p. 16.

- †414. (G) Report on the minerals of some of the apatite-bearing veins of Ottawa county, Quebec, with notes on miscellaneous rocks and minerals. 1878. Montreal, 1879. pp. vi, 52. With 10 illustrations and table of contents (in separate). By B. J. Harrington.
NOTE: The number "414" was assigned by mistake in former catalogues to "Summary of the mineral production of Canada for 1886", which was never issued.
- †126. (H) Chemical contributions to the geology of Canada. On Canadian apatite. Montreal, 1879. pp. vi, 14. By G. C. Hoffmann.
NOTE: For remarks by A. R. C. Selwyn see summary report of the director above. Separate has a table of contents.
- Accompanying Maps:*
127. Geological map of a portion of the southern interior of British Columbia. 1880. Scale: 8 miles to 1 inch. Map is accompanied by a single leaf of explanation entitled: "Note on a geological map of a portion of the southern interior of British Columbia". Montreal, July, 1880.
NOTE: Published separately to accompany report B. See also map No. 363.
- †128. Map of part of the east coast of Hudson bay. [1879.] Scale: 4 miles to 1 inch. See part C.
- †129. Map of lake Winnipeg. 1879 (dated 1878). Scale: 8 miles to 1 inch. See part CC.
- †130. Map of Nelson river and the boat route between lake Winnipeg and Hudson bay. Scale: 8 miles to 1 inch. Also includes: Plan of mouth of Hayes river and vicinity of York Factory. [1879.] Scale: 1 mile to 1 inch. See part CC.
- †131. Geological map of part of Cape Breton [Louisburg sheet], Nova Scotia 1879. Scale: 1 mile to 1 inch. See part F
132. (E) **Report of Progress for 1878-79.** Published in English 1880, and French (not dated), Montreal. 8vo. pp., English xiv, 394, French xiv, 450. With maps Nos. 139 to 142, and 59 other illustrations. Accompanied by cylinder containing map-sheets Nos. 143, 144, 145, and sheet of sections No. 146.
Contains the following reports:
Summary report of the director,¹ from 1st January to 31st December, 1879. By A. R. C. Selwyn.
NOTE: Slip inserted with note on the Chazy formation.
- †497. (F) †133. (B) Report on the Queen Charlotte islands, 1878. Montreal, 1880. pp. vii, 239. With maps Nos. 139, 141, plan No. 140, 52 other illustrations, appendices A to G, and table of contents (in separate). By G. M. Dawson.
Appendix A. On the Haida Indians of the Queen Charlotte islands. With 41 illustrations. By G. M. Dawson.
Appendix B. Vocabulary of the Haida Indians of the Queen Charlotte islands. By G. M. Dawson.
- †134. Appendix C. On some marine *Invertebrata* from the Queen Charlotte islands. Montreal, May 1, 1880. pp. 16. With 2 illustrations. By J. F. Whiteaves.
135. Appendix D. Notes on *Crustacea* collected by Dr. G. M. Dawson at Vancouver and the Queen Charlotte islands. pp. 14. By S. I. Smith.
NOTE: Separate bears no date or place of publication.
Appendix E. Plants collected in the Queen Charlotte islands, 1878. By John Macoun.
Appendix F. Meteorological observations on the coast of British Columbia, May 28 to October 17, 1878. By G. M. Dawson.
Appendix G. Notes on the latitudes and longitudes adopted in the construction of the map of the Queen Charlotte islands. By H. T. Bovey and W. B. Dawson.
- †136. (C) Report on explorations on the Churchill and Nelson rivers, and around Gods and Island lakes. 1879. Montreal, 1880. pp. vi, 72. With

¹See foot-note on p. 16.

- map 142, 6 other illustrations, appendices I to VII, and table of contents (in separate). By R. Bell.
- Appendix I. On some Silurian and Devonian fossils from Manitoba and the valleys of the Nelson and Churchill rivers, for the most part collected by Dr. R. Bell in the summer of 1879. By J. F. Whiteaves.
- Appendix II. List of plants collected by Dr. R. Bell around the shores of Hudson bay and along the Churchill and Nelson rivers in 1877 and 1879. By John Macoun.
- Appendix III. List of freshwater *Mollusca* from Manitoba and the valley of the Nelson river. By J. F. Whiteaves.
- Appendix IV. List of *Lepidoptera* from the Nelson and Churchill rivers and the west coast of Hudson bay. By W. Geffeken.
- Appendix V. List of *Coleoptera* collected by Dr. R. Bell in 1879, on the Nelson and Churchill rivers. By J. L. LeConte.
- Appendix VI. List of birds from the region between Norway House and Forts Churchill and York. By R. Bell.
- Appendix VII. Variation of the compass. By R. Bell.
137. (D) Report on the geology of southern New Brunswick, embracing the counties of Charlotte, Sunbury, Queens, Kings, St. John, and Albert, 1878-79. Montreal, 1880. pp. iv, 26. With maps Nos. 143, 144, 145, and sheet of sections No. 146. By L. W. Bailey, G. F. Matthew, and R. W. Ells.
- †138. (H) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1880. pp. vi, 25. With table of contents (in separate). By G. C. Hoffmann.
- Accompanying Maps, Plans, and Sections:*
- †139. Map of the Queen Charlotte islands. [1880.] Scale: 8 miles to 1 inch.
See part B.
- †140. Sketches of harbours, Queen Charlotte islands, 1878, [1880.] Scale: 2 nautical miles to 1 inch.
See part B.
- †141. Geological map of Skidegate inlet, Queen Charlotte islands. [1880.] Scale: 1 nautical mile to 1 inch.
See part B.
- †142. Map of Island and Gods lakes, and of the connecting waters to Oxford lake. 1880 (dated 1879). Scale: 4 miles to 1 inch.
See part C.
143. Map-sheet 1 S.W. [St. Stephen sheet]. Province of New Brunswick. 1880. (Comprises Charlotte county, parts of St. John and Kings counties, and Grand Manan island.) Scale: 4 miles to 1 inch. See part D.
NOTE: For surface geology see map No. 317.
144. Map-sheet 1 S.E. [St. John sheet]. Province of New Brunswick. 1880. (Comprises parts of St. John and Kings counties.) Scale: 4 miles to 1 inch. See part D.
NOTE: For surface geology see map No. 318.
145. Map-sheet 1 N.E. [Grand Lake sheet]. Province of New Brunswick. 1880. (Comprises parts of Sunbury, Queens, Kings, Albert, and Westmorland counties.) Scale: 4 miles to 1 inch. See part D.
NOTE: For surface geology see map No. 319.
146. Sections to illustrate sheets Nos. 1 S.W., 1 S.E., and 1 N.E., 1880. (A coloured sheet to accompany maps Nos. 143, 144, and 145). Scale: 2 miles to 1 inch. See part D.
NOTE: Map-sheets Nos. 143, 144, 145 and sheet of sections No. 146 were not issued with French edition of report.
147. (E) **Report of Progress for 1879-80.** Published in English 1881, and French (not dated), Montreal. 8vo. pp., English xxi, 594, and errata slip, French xxii, 656. With map No. 149 and 35 other illustrations. Accompanied by separate portfolio containing maps Nos. 150 to 153. Contains the following reports:
- †499. (F) Summary report of the director¹ from 1st January to 31st December, 1880. (Contains statement by H. G. Vennor, in anticipation of a final report (not furnished), of general conclusions regarding the anorthosites and limestones in Argenteuil, Terrebonne, and Montcalm counties, Quebec;

¹ See foot-note on p. 16.

and summary, by the director, of explorations of L. R. Ord and R. G. McConnell in Berthier, Maskinongé, and St. Maurice counties, Quebec.) By A. R. C. Selwyn.

- (A) Report on boring operations in the Souris River valley, 1880. With 1 illustration and appendices I and II. By A. R. C. Selwyn.
 Appendix I. On the Lignite Tertiary formation from the Souris river to the 108th meridian. With 8 illustrations. (Reprinted from "Report on the geology and resources of the region in the vicinity of the forty-ninth parallel, etc." British North American Boundary Commission. 1875. Revised and partly re-written.) By G. M. Dawson.
 Appendix II. Note on fossil plants collected by Dr. Selwyn, in the Lignite Tertiary formation of Roche Percée, Souris river. By J. W. Dawson.
- (B) Report on an exploration from Port Simpson, on the Pacific coast, to Edmonton on the Saskatchewan, embracing a portion of the northern part of British Columbia and the Peace River country. 1879. (Includes a description of the geology of the region between the 54th and 56th parallels, from the Pacific coast to Edmonton.) With map in 3 sheets Nos. 150, 151, 152, 8 other illustrations, and appendices I, II, and III. (See also maps Nos. 594, 595, 596.) By G. M. Dawson.
 NOTE: Portions of this report, with greater detail, were published in advance in the Canadian Pacific Railway report for 1880, Appendix No. 7, under title: "Report on the climate and agricultural value, general geological features and minerals of economic importance of part of the northern portion of British Columbia and of the Peace River country." pp. 25. Copies were distributed by the Geological Survey.
- Appendix I. List of plants collected in the northern part of British Columbia and the Peace River country, 1879. By John Macoun.
 Appendix II. Meteorological observations in the northern part of British Columbia, the Peace River district, and from Edmonton to Manitoba, June 7 to November 28, 1879. By G. M. Dawson.
 Appendix III. Note on the latitudes and longitudes used in preparing a map of the region from the Pacific coast to Edmonton. Observations by G. M. Dawson and C. Horetzky (not "Horetzky"), 1879, and A. Webster, 1875.
- Note on the distribution of some of the more important trees of British Columbia. With map No. 149. By G. M. Dawson.
 NOTE: This was first published, with the map, in the Canadian Naturalist (new series), vol. IX, No. 6, 13th August, 1880, and is reprinted here with corrections and additions.
- (C) Report on Hudson bay and some of the lakes and rivers lying to the west of it. With appendices I to XI, map No. 153, and 11 other illustrations. By R. Bell.
 Appendix I. List of fossils collected by Dr. R. Bell in Manitoba during the season of 1880. By J. F. Whiteaves.
 Appendix II. List of plants collected in 1880. By John Macoun.
 Appendix III. List of *Coleoptera* collected in 1880 in Manitoba, and between lake Winnipeg and Hudson bay. By J. L. LeConte.
 Appendix IV. *Mollusca*. By J. F. Whiteaves.
 Appendix V. Analysis of the waters of Hayes and Nelson rivers. By W. Dittmar.
 Appendix VI. York Factory. Seasonal or periodic events. By W. Wood.
 Appendix VII. York Factory. Table showing dates of the opening and closing of Hayes river, at York Factory, compiled from authentic records by Mr. William Wood, meteorologist, York Factory.
 Appendix VIII. York Factory. Dates of the arrivals of the Hudson's Bay Company's vessels at York Factory, and of their sailings, for 93 years, from 1789 to 1880, both inclusive. By J. Fortescue.
 Appendix IX. Moose Factory. Seasonal or periodic events. By J. R. Nason.
 Appendix X. Moose Factory. Dates of the arrivals of the Hudson's Bay Company's vessels at Moose Factory, and of their sailings, for 147 years—1735 to 1880, both inclusive. By W. Armit.

Appendix XI. Statistics of the weather for two years at York and Moose Factories, Hudson bay. By W. Wood and J. R. Nason.

- (D) Report on the geology of northern New Brunswick, embracing portions of the counties of Restigouche, Gloucester, and Northumberland. 1881. With 4 illustrations. (See maps Nos. 162, 164, 165, 166, 254.) By R. W. Ells.
- (F) Report on part of the counties of Richmond, Inverness, Guysborough, and Antigonish, Nova Scotia, 1881. With 3 illustrations. (See maps Nos. 200 to 207, and 378.) By H. Fletcher.

NOTE: See remarks by the director in his summary report.

- (G) Report of a geological exploration of the Magdalen islands. With appendix. By J. Richardson.

Appendix. List and notes of plants collected by Mr. Richardson on the Magdalen islands. Dated Belleville, Ont., May 23rd, 1881. By John Macoun.

- †148. (H) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1881. pp. vi, 21. With table of contents (in separate). By G. C. Hoffmann.

Accompanying Maps:

- †149. Map illustrating the distribution of some of the more important trees in British Columbia. [1881.] Scale: about 47 miles to 1 inch.

See "Note, etc." by G. M. Dawson.

Map of part of British Columbia and the North West Territory, from the Pacific ocean to Fort Edmonton. [1881.] Scale: 8 miles to 1 inch. In three sheets, as follows: See part B.

- †150. Sheet I. [Comprises Fort Simpson to Fort St. James.]

- †151. Sheet II. [Comprises Fort St. James to Dunvegan.]

- †152. Sheet III. [Comprises Dunvegan to Edmonton.]

- †153. Map showing the general northern limits of the principal forest trees of the Dominion of Canada [east of the Rocky mountains]. 1881. Scale: 80 miles to 1 inch. See part C.

154. (E) **Report of Progress for 1880-81-82.** Published in English 1883, and French (not dated), Montreal. 8vo. pp., English xvii, 250, French xvi, 266. With index to colours and signs No. 157, map No. 158, plan No. 160, and 11 other illustrations. Accompanied by separate portfolio containing maps Nos. 159, and 161 to 166.

Contains the following reports:

Summary reports of the director¹ for the calendar years 1881 and 1882. (Contains, in addition to preliminary reports noted elsewhere under the final reports, the following in the summary report for 1882: Summary, by the director, of explorations by A. S. Cochrane east and north of lake Winnipeg; also notes of the director on an examination of some mines on lake Superior and of its north shore from Kaministikwia river to Echo lake, and on explorations on White Mud and Souris rivers, Manitoba.) By A. R. C. Selwyn.

Geological nomenclature and the colouring and notation of geological maps. With index to colours and signs, No. 157. By A. R. C. Selwyn.

NOTE: This is a reprint, with slight textual difference, of a communication printed by the author for presentation to the International Geological Congress, Bologna, August, 1884, and dated Ottawa, 29th August, 1881.

- (A) Notes on the geology of the southeastern portion of the province of Quebec. Dated May, 1883. With 1 illustration, and appendix. By A. R. C. Selwyn.

- †155. Appendix. Notes on the microscopic structure of some rocks of the Quebec group. pp. 16. By F. D. Adams.

NOTE: Separate has no cover-title, date, or place of publication.

- (B) Preliminary report on the geology of the Bow and Belly Rivers region, N. W. Territory, with special reference to the coal deposits. With map No. 158 and 3 other illustrations. By G. M. Dawson.

¹See foot-note on p. 16.

NOTE: This report is essentially a reprint, with additions and corrections, of a note published May, 1882, in advance of the Report of Progress. See No. 408.

408. Preliminary note on the geology of the Bow and Belly River districts, N. W. Territory, with special reference to the coal deposits. Montreal, 1882. 8vo. pp. iii, 19. By G. M. Dawson.
- (C) Reports on the geology of the basin of the Moose river and of the Lake of the Woods and adjacent country. 1881. With appendices I and II. By R. Bell.
- I. Report on the geology of the basin of Moose river and adjacent country. With maps Nos. 159 and 160, page containing note by A. R. C. Selwyn on map No. 160, and 2 illustrations.
- II. On the geology of the Lake of the Woods and adjacent country. With map No. 161.
- Appendix I. Catalogue of the plants collected by Dr. Robert Bell along the Michipicoten river and in the southern part of the basin of Moose river, in July, August, and September, 1881. By John Macoun.
- Appendix II. Lists of *Coleoptera* collected in 1881 by Dr. Bell and others, in the Lake Superior district and in the North-West Territories, east of the 112th meridian and south of the 60th parallel. By J. L. LeConte.
- (D) Report on the geology of northern and eastern New Brunswick and the north side of the bay of Chaleur. With maps Nos. 162 to 166, and 1 other illustration. By R. W. Ells.
- NOTE: For remarks by A. R. C. Selwyn see summary report of the director (for 1882) above.
- (DD) Report on the geological formations in the Gaspé peninsula. 1882. With maps Nos. 164, 165, and 4 other illustrations. (See also maps Nos. 175, 181, 182, 183.) By R. W. Ells.
- (GG) Notes on some of the mines in the province of Quebec. 1882. By C. W. Willimott.
- †156. (H) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1883, pp. vi, 16. With table of contents (in separate). By G. C. Hoffmann.
- Accompanying Maps and Plans:*
157. Index to the colours and signs employed in the maps and sections of the Geological Survey of Canada. 1881.
- †158. Index map of coal and lignite outcrops, Bow and Belly River district. 1883. Scale: 10 miles to 1 inch. See part B.
- †159. Map showing approximately the geology of the basin of Moose river and adjacent country. 1883. Scale: 8 miles to 1 inch. See also map No. 964. See part C.I.
- †160. Plan of Moose river from the neighbourhood of Moose Factory to James bay. [1883.] Scale: 2 miles to 1 inch. See part C.I.
- NOTE: A page containing note by A. R. C. Selwyn accompanies this map in the report.
- †161. Geological map of the Lake of the Woods and adjacent country. 1881. Scale: 4 miles to 1 inch. See part C.II.
- The following 5 maps (Nos. 162 to 166) illustrate reports by R. W. Ells, 1879-81. Scale: 4 miles to 1 inch.
- †162. Map-sheet No. 2 N.E. [Newcastle sheet]. Province of New Brunswick. 1882. (Comprises parts of Northumberland and Gloucester counties.) See part D.
- NOTE: For surface geology see map No. 289.
- †163. Map-sheet No. 2 S.E. [Richibucto sheet]. Province of New Brunswick. 1882. (Comprises parts of Kent, Westmorland, Queens, Sunbury, York, and Northumberland counties.) See part D.
- NOTE: For surface geology see map No. 562.
- †164. Map-sheet No. 3 S.W. [Dalhousie sheet]. Province of New Brunswick and part

of Quebec. 1882. (Comprises parts of Restigouche county, N.B., and Bonaventure, Rimouski, and Matane counties, Que.)

See parts D and DD.

NOTE: For surface geology see map No. 252.

- †165. Map-sheet No. 3 S.E. [Bathurst sheet]. Province of New Brunswick and part of Quebec. 1882. (Comprises parts of Restigouche and Gloucester counties, N.B., and Bonaventure and Gaspé counties, Que.)

See parts D and DD.

NOTE: For surface geology see map No. 253.

- †166. Map-sheet No. 6 S.W. [Shippigan sheet]. Province of New Brunswick. 1882. (Comprises part of Gloucester county.)

See part D.

NOTE: For surface geology see map No. 288.

167. (E) **Report of Progress for 1882-83-84.** Published in English 1885, and French (not dated), Montreal. 8vo. pp., English xxxvii, 763, French xxxiv, 803. With 3 folding sheets of sections (including No. 170), 3 folding tables of analyses, and 18 other illustrations. Accompanied by separate portfolio containing maps Nos. 171, 172, 173, panoramic view No. 208; and by cylinder containing maps Nos. 174 to 207.

†631. (F)

Contains the following reports:

Summary report of the director¹ for the calendar year 1883, and observations on the work of 1884. (The report for 1883 contains (in addition to preliminary reports noted elsewhere under the final reports) notes by the director on his examination of the Huronian mine, Jackfish lake, Thunder Bay district, Ontario, and of the Souris River coal-area, Manitoba; a summary by R. Bell of explorations on Lake of the Woods, and Wabigoon lake to Red lake, *via* lac Seul, Ontario, and on lake Winnipeg and Winnipeg river; also notes by the director on a boring for oil near Three Rivers, Quebec. The observations on the work of 1884 include comments on the "Report of the Select Committee of the House of Commons on Geological Surveys", published during that year.) By A. R. C. Selwyn.

(B) Report on the geology of the country near the fourth-ninth parallel of north latitude west of the Rocky mountains. From observations made in 1859-1861. (Includes: "List of fossils from the Carboniferous outlier in the Flathead valley, by J. W. Salter".) With folding sheet of sections No. 170. By H. Bauerman.

(C) Report on the region in the vicinity of the Bow and Belly rivers, North West Territory; embracing the country from the base of the Rocky mountains eastward to long. 110° 45', and from the 49th parallel northward to latitude 51° 20'. With maps Nos. 171 and 172, 2 folding sheets of sections, 10 other illustrations, and appendices I, II, and III. By G. M. Dawson, assisted by R. G. McConnell.

Appendix I. List of elevations. By G. M. Dawson.

Appendix II. Blackfoot names of a number of places in the North West Territory, for the most part in the vicinity of the Rocky mountains. By J. C. Nelson.

Appendix III. Partial analyses of clay ironstone derived from the rocks of the district embraced by the foregoing report. By G. C. Hoffmann.

NOTE: Pages 139 to 152 of this report (C) were published as a separate. See No. 475. The fossils of the area are described in No. 442. For preliminary reports see No. 408; part B in No. 154; and reports of director (for 1881 and 1882) in No. 154, and in No. 167 (for 1883).

- †475. On the superficial deposits and glaciation of the district in the vicinity of the Bow and Belly rivers. [Montreal, 1885.] 8vo. pp. 14. With 1 illustration. By G. M. Dawson.

(CC) Report on part of the basin of the Athabaska river, North West Territory. With map No. 173, 4 other illustrations, and appendix. By R. Bell.

¹See foot-note on p. 16.

- Appendix. List of *Lepidoptera* collected in the North West Territories by Dr. Robert Bell in 1882. By H. H. Lyman.
NOTE: For preliminary report, summarized by Selwyn, see summary report of director (for 1882) in No. 154.
- †460. (D) Report of geological observations in the Saguenay region. Montreal, 1884, pp. 18. By J. C. K. Laflamme.
NOTE: Separate has no cover-title.
- (DD) Observations on the geology, mineralogy, zoology, and botany of the Labrador coast, Hudson strait and bay. With 2 illustrations and appendices I to V. By R. Bell.
Appendix I. List of plants collected on the coasts of Labrador, Hudson strait and bay, by Dr. Robert Bell in 1884. By John Macoun.
Appendix II. List and notes of mammals of the vicinity of Hudson bay and Labrador. By R. Bell.
Appendix III. List and notes of birds of the vicinity of Hudson bay and Labrador. By R. Bell.
Appendix IV. List of *Crustacea* from Port Burwell, collected by Dr. R. Bell in 1884. By S. I. Smith.
NOTE: Second initial of the author's name is erroneously printed "J."
List of marine invertebrates from Hudson strait, collected by Dr. R. Bell in 1884. By J. F. Whiteaves.
Appendix V. List of *Lepidoptera*, collected by Dr. Robert Bell in Hudson strait in 1884. By H. H. Lyman.
List of *Coleoptera* collected by J. R. Spencer at Fort Churchill. By J. B. Smith.
- (E) Report on explorations and surveys in the interior of the Gaspé peninsula. 1883. (Includes also a portion of Prince Edward Island.) See maps Nos. 175 to 183. By R. W. Ells.
NOTE: For preliminary report see summary report of director (for 1883) above.
- (F) Report on explorations and surveys in the interior of the Gaspé peninsula. 1883. With panoramic view No. 208. See maps Nos. 175, 182, 183. By A. P. Low.
NOTE: For preliminary report, summarized by Selwyn, see summary report of director (for 1883) above.
- (G) Report of explorations and surveys in portions of York and Carleton counties, New Brunswick. 1884. See map No. 174. By L. W. Bailey.
- (GG) Report on the surface geology of western New Brunswick, with special reference to the area included in York and Carleton counties. With 2 illustrations. By R. Chalmers.
- (H) Report on the geology of northern Cape Breton. See maps Nos. 184 to 199. By H. Fletcher.
NOTE: For preliminary reports see summary reports of director (for 1881 and 1882) in No. 154.
- (J) Report on apatite deposits, Ottawa county, Quebec. By J. F. Torrance.
NOTE: For preliminary note see summary report of director (for 1883) above.
- (K) Report on the gold mines of the Lake of the Woods. By E. Coste.
- (L) Report of observations in 1883 on some mines and minerals in Ontario, Quebec, and Nova Scotia. By C. W. Willimott.
- †168. (M) Chemical contributions to the geology of Canada. Coals and lignites of the North West Territory. Montreal, 1884. pp. vi, 44. With 3 folding tables of analyses, and table of contents (in separate). By G. C. Hoffmann.
- †169. (MM) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1884, pp. v, 19. With table of contents (in separate). By G. C. Hoffmann.
- †170. *Accompanying Maps, etc.:*
Sketch sections accompanying report by H. Bauerman. [1885.]
Section from Fort Hope, Fraser river, to Waterton, or Chief Mountain lake, on the Buffalo plains.

Section from point Roberts, on the gulf of Georgia, to Osoyoos lake.
Scale: horizontal, 10 miles to 1 inch; vertical, 10,000 feet to 1 inch.

See part B.

- †171. Geological map of the region in the vicinity of the Bow and Belly rivers, embracing the southern portion of the district of Alberta and part of Assiniboia, North West Territory. 1884. Scale: 8 miles to 1 inch.
See part C.
- †172. Map showing wooded and prairie tracts, etc., in the region in the vicinity of the Bow and Belly rivers, embracing the southern portion of the district of Alberta and part of Assiniboia, North West Territory. 1884. Scale: 8 miles to 1 inch.
See part C.
- †173. Map of part of the Athabaska river. 1884. Scale: 8 miles to 1 inch.
See part CC.
- †208. Notre-Dame or Shickshock mountains. Peninsula of Gaspé. Panoramic view from the north east peak of mount Albert—3,560 feet. See part F.
174. Map-sheet No. 1 N. W. [Fredericton sheet]. Province of New Brunswick. 1885 (dated 1884). (Comprises parts of Carleton, York, Sunbury, and Queens counties.) Scale: 4 miles to 1 inch.
NOTE: For surface geology see map No. 697. See part G.
175. Map-sheet No. 3 N. E. [Headwaters Bonaventure River sheet]. Province of Quebec. 1885 (dated 1884). (Comprises parts of Gaspé, Bonaventure, and Matane counties.) Scale: 4 miles to 1 inch.
See parts E and F, also part D of No. 154.
176. Map-sheet No. 3 N. W. [Lake Matapedia sheet]. Province of Quebec. 1885 (dated 1884). (Comprises parts of Rimouski [now Matane], Gaspé, and Bonaventure counties.) Scale: 4 miles to 1 inch. See part E.
177. Map-sheet No. 5 N. W. [North Point sheet]. Prince Edward Island. 1885 (dated 1884). (Comprises part of Prince county.) Scale: 4 miles to 1 inch. See part E.
178. Map-sheet No. 5 S. W. [Buctouche (or Cape Traverse) sheet.] Part of New Brunswick and Prince Edward Island. 1885 (dated 1884). (Comprises parts of Kent county, N.B., and Prince and Queens counties, P.E.I.) Scale: 4 miles to 1 inch. See part E.
NOTE: For surface geology see map No. 563.
179. Map-sheet No. 5 S. E. [Charlottetown sheet]. Prince Edward Island. 1885 (dated 1884). (Comprises parts of Prince and Queens counties.) Scale: 4 miles to 1 inch. See part E.
180. Map-sheet No. 6 N. W. [Douglastown sheet]. Province of Quebec. 1885 (dated 1884). (Comprises part of Gaspé county.) Scale: 4 miles to 1 inch. See part E, also part DD in No. 154.
181. Map-sheet No. 7 S. W. [Fox River sheet]. Province of Quebec. 1885 (dated 1884). (Comprises part of Gaspé county and part of Anticosti island.) Scale: 4 miles to 1 inch. See part E, also part DD in No. 154.
182. Map-sheet No. 15 S. E. [Cape Marsouin sheet]. Province of Quebec. 1885 (dated 1884). (Comprises part of Gaspé county.) Scale: 4 miles to 1 inch. See parts E and F, also part DD in No. 154.
183. Map-sheet No. 15 S. W. [Ste. Anne des Monts sheet]. Province of Quebec. 1885 (dated 1884). (Comprises parts of Matane, Gaspé, and Saguenay counties.) Scale: 4 miles to 1 inch.
See parts E and F, also part DD in No. 154.
- The following 24 map-sheets of the province of Nova Scotia (island of Cape Breton) were issued 1885 (dated 1884) to accompany the present volume. Nos. 184 to 199 inclusive illustrate part H; and Nos. 200 to 207 illustrate part F, Report of Progress for 1879-80. Scale: 1 mile to 1 inch.
184. Map-sheet No. 1. [Cape North sheet.] Comprises parts of Inverness and Victoria counties.
185. Map-sheet No. 2. [Aspy Bay sheet.] Comprises part of Victoria county.
186. Map-sheet No. 3. [Pleasant Bay sheet.] Comprises parts of Inverness and Victoria counties.

187. Map-sheet No. 4. [Ingonish sheet.] Comprises part of Victoria county.
188. Map-sheet No. 5. [Headwaters of Cheticamp River sheet.] Comprises parts of Inverness and Victoria counties.
189. Map-sheet No. 6. [North Cheticamp sheet.] Comprises part of Inverness county.
190. Map-sheet No. 7. [North Shore sheet.] Comprises part of Victoria county.
191. Map-sheet No. 8. [Headwaters of Margaree River sheet.] Comprises parts of Inverness and Victoria counties.
192. Map-sheet No. 9. [South Cheticamp sheet.] Comprises part of Inverness county.
193. Map-sheet No. 10. [Englishtown sheet.] Comprises parts of Victoria and Inverness counties.
194. Map-sheet No. 11. [Margaree sheet.] Comprises parts of Inverness and Victoria counties.
195. Map-sheet No. 12. [Baddeck sheet.] Comprises part of Victoria county.
196. Map-sheet No. 13. [Middle River sheet.] Comprises parts of Inverness and Victoria counties.
197. Map-sheet No. 14. [Broad Cove sheet.] Comprises part of Inverness county.
198. Map-sheet No. 15. [Whycocomagh sheet.] Comprises parts of Inverness and Victoria counties.
199. Map-sheet No. 16. [Port Hood sheet.] Comprises part of Inverness county.
200. Map-sheet No. 17. [Loch Lomond sheet.] Comprises parts of Richmond and Cape Breton counties.
201. Map-sheet No. 18. [River Denys sheet.] Comprises parts of Inverness and Richmond counties.
202. Map-sheet No. 19. [Judique sheet.] Comprises part of Inverness county.
203. Map-sheet No. 20. [L'Ardoise sheet.] Comprises part of Richmond county.
204. Map-sheet No. 21. [Saint Peter sheet.] Comprises parts of Richmond and Inverness counties.
205. Map-sheet No. 22. [Strait of Canso sheet.] Comprises parts of Inverness, Richmond, Antigonish, and Guysborough counties.
206. Map-sheet No. 23. [Arichat sheet.] Comprises part of Richmond county.
207. Map-sheet No. 24. [Guysborough Harbour sheet.] Comprises parts of Richmond and Guysborough counties.
- †209. **Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1885, being part III, Annual Report of the Department of the Interior, 1885.** Ottawa, 1886. Svo. pp. 32. By A. R. C. Selwyn.
 Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
 Notes of the director on the Zenith zinc mine, near Rosspoint, Ont.; on some Cretaceous rocks with indications of oil, along the Assiniboine river, Manitoba; and on the Rabbit and Silver Mountain mines near Port Arthur, Ont.
 Work of E. Coste in Hastings, Peterborough, and Victoria counties, Ontario, summarized by the director.
 Notes on an examination of the north shore of the St. Lawrence river below Quebec. By J. C. K. Lafamme.

¹ The individual reports included in the Summary Reports from 1885 to 1900, inclusive, like those previous to 1885, bear no titles. Descriptive titles for reports (or portions of reports), other than those preliminary to a final report, are necessary in order to call attention to the contents and to list them in the Finding Lists and part XVIII of this Catalogue. Such titles have, therefore, been devised and inserted. Frequently, the reports have been summarized by the director, or by an assistant director, and do not appear in the authors' own words. A distinction, therefore, has been carefully drawn, in the wording of the inserted titles, between these two classes of reports.

Remarks by the director on the museum of the Geological Survey.

NOTE: This is the first of the summary reports of the Geological Survey, forming part III. of the Annual Reports of the Department of the Interior, to be reprinted and issued in advance by the Survey as a separate. Also appears with the summary report for 1884 in part A, Annual Report, 1885.

- †210. (E) **Annual Report (new series), volume I, 1885.** Published in English and French, Montreal, 1886. 8vo. pp., English xiii, 834, French xii, 858. With maps Nos. 224, 229, 39 other illustrations, and folding sheet of sections (issued separately). Accompanied by portfolio containing maps Nos. 223, 225, 226, 228, 230, 231, also by map No. 227 (issued 1887 in separate envelope).

NOTE: Commencing with this volume, which was made the first of a new series, the title of the volumes of reports was changed from "Report of Progress" to "Annual Report." Each report, English edition only, was also published separately in advance.

Contains the following reports and an index:

211. (A) Summary Report of the operations of the Geological Survey for the years 1884 and 1885. Montreal, 1886 (dated 1885). pp. 108. By A. R. C. Selwyn.
The report for 1884 contains the following, in addition to preliminary reports noted elsewhere under the final reports¹:
Notes of the director of examinations along the main line of the Canadian Pacific railway from Ottawa to Pogamasing, with description of the occurrence of copper sulphide ore near Sudbury, Ontario.
Investigations in the gold and iron-bearing region in Hastings and Peterborough counties, Ontario, and in the Eastern Townships, Quebec. By E. Coste (partly summarized by the director).
An account, by the director, of the organization of the Lake Mistassini expedition, with extracts from letters received from A. P. Low and F. H. Bignell.
Notes on explorations in the Lake St. John region, Quebec. By J. C. K. Laflamme.
Notes on an examination of the anorthosite area north and east of lake St. John, Quebec. By F. D. Adams.
Remarks by the director relating to mineral statistics and mines and the economic bearing of the work of the Survey.
NOTE: Contents specially noted for the Summary Report for 1885 are given under No. 209. The text, as reprinted in Part A, is essentially the same as in No. 209, but with some minor differences.
- †212. (B) Preliminary report on the physical and geological features of that portion of the Rocky mountains between latitudes 49° and 51° 30'. Montreal, 1886. pp. 169. With maps Nos. 223, 224, and 13 other illustrations. By G. M. Dawson.
NOTE: For preliminary report, summarized by Selwyn, see Part A (for 1884), Annual Report, 1885.
213. (C) Report on the Cypress hills, Wood mountain, and adjacent country, embracing that portion of the district of Assiniboia lying between the International Boundary and the 51st parallel, and extending from long. 106° to long. 110° 50'. Montreal, 1886 (dated 1885). pp. 85. With maps Nos. 225, 226, 7 other illustrations, and appendix. By R. G. McConnell.
NOTE: The area covered by this report is now included in the southern portions of the provinces of Saskatchewan and Alberta. For remarks by Selwyn see report of the director in No. 167.
- †214. Appendix I. The *Vertebrata* of the Swift Current Creek region of the Cypress hills. (Published May, 1886.) pp. 7. By E. D. Cope.
NOTE: Separate has no cover-title.

¹ See foot-note on p. 32.

- †215. (CC) Report on the geology of the Lake of the Woods region, with special reference to the Keewatin (Huronian?) belt of the Archæan rocks. Montreal, 1885. pp. 151. With map No. 227 (in envelope) and 14 other illustrations. By A. C. Lawson.
NOTE: Separate has errata slip and notice of forthcoming map. For preliminary reports see summary reports of the director in Nos. 167, and 209 or 211.
216. (D) Report of the Mistassini expedition, 1884-5. Montreal, 1886 (dated 1885). pp. 55. With appendices I, II, and III, and map No. 228. By A. P. Low.
Appendix I. List of birds collected at lake Mistassini, 1885. By J. M. Macoun.
Appendix II. List of plants collected at lake Mistassini, Rupert river, and Rupert House, 1885. By J. M. Macoun.
Appendix III. Meteorological observations taken on the route from Betsiamites to lake Mistassini, and at the Hudson Bay post, Mistassini, August 8th, 1884, to August 21st, 1885. By A. P. Low.
NOTE: For preliminary report see No. 209 or 211.
217. (DD) Observations on the geology, zoology, and botany of Hudson strait and bay, made in 1885. Montreal, 1886 (dated 1885). pp. 27. With map (chart) No. 229, 5 other illustrations, and appendices I and II. By R. Bell.
Appendix I. List of plants collected in Newfoundland in 1885 by Dr. Robert Bell, and: Additional plants from Labrador and Hudson strait. By John Macoun.
Appendix II. Partial list of insects collected in 1885, by Dr. Robert Bell, in connection with the Hudson Bay expedition. *Lepidoptera*, determined by H. H. Lyman. *Coleoptera*, determined by G. H. Horn.
NOTE: For preliminary report see No. 209 or 211.
218. (E) Report on the geological formations of eastern Albert and Westmorland counties, New Brunswick, and of portions of Cumberland and Colchester counties, Nova Scotia, embracing the Spring Hill coal basin and the Carboniferous system north of the Cobequid mountains. 1884. Montreal, 1885. pp. 71. With map No. 230. By R. W. Ells.
NOTE: For summary by the director see No. 209 or 211. See also maps Nos. 793 to 796, 826, 836, 839, 840.
219. (G) Report of explorations and surveys in portions of the counties of Carleton, Victoria, York, and Northumberland, New Brunswick. 1885. Montreal, 1885. pp. 30 and errata slip (in separate only). With map No. 231. By L. W. Bailey.
NOTE: For preliminary report see No. 209 or 211.
220. (GG) Preliminary report on the surface geology of New Brunswick. Montreal, 1886 (dated 1885). pp. 58. With folding sheet of sections (published separately in 1886). By R. Chalmers.
NOTE: For summary by the director see No. 211.
221. (K) Observations on mining laws and mining in Canada, with suggestions for the better development of the mineral resources of the Dominion. Montreal, 1886 (dated 1885). pp. 15. By E. Coste.
NOTE: "Suggestions" by mistake is printed "suggestion" in cover-title of separate.
222. (M) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1886 (dated 1885). pp. iv, 29. By G. C. Hoffmann.
NOTE: A special edition without "Part M, Annual Report, 1885" on the cover (which differs in colour from the other separate) was also printed, with a table of contents not in the other edition.
- †223. *Accompanying Maps:*
Reconnaissance map of a portion of the Rocky mountains between latitudes 49° and 51° 30'. 1886. Scale: 6 miles to 1 inch. See part B.
224. Geological map of part of the Cascade coal basin, Rocky mountains. 1886. Scale: 1½ miles to 1 inch. See part B.

- †225. Geological and topographical map of the Cypress hills, Wood mountain and adjacent country. 1886 (dated 1885). Scale: 8 miles to 1 inch.
See part C.
- †226. Map showing wooded tracts and character of surface of the Cypress hills, Wood mountain and adjacent country. 1886 (dated 1885). Scale: 8 miles to 1 inch.
See part C.
227. Geological and topographical map of the northern part of the Lake of the Woods and adjacent country. 1887. Scale: 2 miles to 1 inch.
See part CC.
NOTE: A revised edition was published in April, 1897. For notes on revised geology, and mining developments at that date, by W. McInnes, see No. 632 or 644. A special edition was printed in 1897 for the Sixth Report of the Bureau of Mines, Ontario.
- †228. Map of lake Mistassini, with geological boundaries. 1886. Scale: 6 miles to 1 inch.
See part D.
- †229. Chart of the Ottawa islands, Hudson bay, 1885. Published 1886. Scale: 4 miles to 1 inch.
See part DD.
- †230. Map-sheet No. 4 N. W. [Cumberland coal-field (or Springhill) sheet]. Province of Nova Scotia and part of New Brunswick. 1886. (Comprises parts of Cumberland county, N.S., Westmorland and Albert counties, N.B., with a small part of Prince Edward Island.) Scale: 4 miles to 1 inch.
See part E.
NOTE: Map bears no title, but same sheet, surface geology (map No. 561), bears the title: "Springhill sheet," and has "(Cumberland coal-field sheet)" printed on back of folded map in portfolio.
- †231. Map-sheet No. 2 S.W. [Andover sheet]. Province of New Brunswick. 1886. (Comprises parts of Victoria, Carleton, York, and Northumberland counties.) Scale: 4 miles to 1 inch.
See part G.
NOTE: For surface geology see map No. 696.
- †232. **Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1886, being part III, Annual Report of the Department of the Interior, 1886.** Ottawa. 1887. 8vo. pp. 42. By A. R. C. Selwyn.
Contains the following, in addition to preliminary reports noted elsewhere under the final reports¹:
Explorations and surveys in the areas covered by sheet 113 (not published), and the detailed map of the Madoc and Marmora mining district (map No. 374), Hastings, Northumberland, Durham, Peterborough, and Victoria counties, Ontario. By E. Coste (partly summarized by the director).
Progress made in the work of tracing the boundaries of the lower Palæozoic rocks on the Archæan, and of the Cambro-Silurian areas to the north of the St. Lawrence river. By J. C. K. Lafamme.
- †233. (E) **Annual Report (new series), volume II, 1886.** Published in English and French, Montreal, 1887. 8vo. pp., English xv, 1015, French xiv, 1051. With map No. 255, section No. 248, and 20 other illustrations. Accompanied by portfolio containing maps Nos. 247, 249 to 254. An additional portfolio containing maps Nos. 379 to 390, 550, 551 (all for part P) was issued in 1895, but the individual maps were published separately during 1894 and 1895. Maps Nos. 378 (issued 1891), and 565 (issued 1896), were also published to illustrate part P.
- †904. (F) Contains the following reports (no French separates) and an index:
234. (A) Summary report of the operations of the Geological Survey for the year 1886. Montreal, 1887. pp. ii, 87. By A. R. C. Selwyn.
NOTE: A reprint, with some additions and alterations, of No. 232.
235. (B) Report on a geological examination of the northern part of Vancouver island and adjacent coasts. Montreal, 1887. pp. 129. With map No. 247, 5 other illustrations, and appendices I, II, and III. By G. M. Dawson.

¹ See foot-note on p. 32.

- Appendix I. Notes on some Mesozoic fossils from various localities on the coast of British Columbia, for the most part collected by Dr. G. M. Dawson in the summer of 1885. By J. F. Whiteaves.
- Appendix II. List of plants obtained by Dr. G. M. Dawson on Vancouver island and adjacent coasts in 1885. By John Macoun.
- Appendix III. Meteorological observations on the coast of British Columbia, June 21st to October 22nd, 1885. [By G. M. Dawson.]
NOTE: Separate of No. 235 has an errata slip. For preliminary report see No. 209 or 211.
236. (D) Report on the geological structure of a portion of the Rocky mountains, accompanied by a section measured near the 51st parallel. Montreal, 1887. pp. 41, and slip with additional note. With section No. 248 and 1 other illustration. By R. G. McConnell.
NOTE: For preliminary report see No. 232 or 234, and for descriptions of fossils, No. 443 (4.B2).
- †237. (E) Report on a part of northern Alberta and portions of adjacent districts of Assiniboia and Saskatchewan, embracing the country lying south of the North Saskatchewan river and north of lat. 51° 6', between long. 110° and 115° 15' west. Montreal, 1887. pp. 176. With maps Nos. 249, 250, 5 other illustrations, and appendices I to IV. By J. B. Tyrrell.
NOTE: The boundaries of Alberta, now a province, have been so extended since the above report was written that the area described lies wholly within its southern part. The maps are not bound in with the separate. For preliminary reports and summaries see Nos. 211 and 232 or 234.
- Appendix I. On some fossils from the Cretaceous and Laramie rocks of the Saskatchewan and its tributaries, collected by Mr. J. B. Tyrrell in 1885 and 1886. By J. F. Whiteaves.
NOTE: The part relating to the Cretaceous species is reprinted, with some additions, in No. 443 (4.B4).
- Appendix II. Lists of *Lepidoptera* collected by J. B. Tyrrell in 1884 and 1885, and D. B. Dowling in 1886. By J. Fletcher.
- Appendix III. List of elevations. [By J. B. Tyrrell.]
- Appendix IV. Cree and Stoney Indian names for places within the area of the accompanying map. [By J. B. Tyrrell.]
238. (F) Preliminary report on an exploration of country between lake Winnipeg and Hudson bay. Montreal, 1887. pp. 24. With appendix. By A. P. Low.
Appendix. Meteorological observations taken on the route from lake Winnipeg to Fort Severn, between Fort Severn and York Factory, and from York Factory to lake Winnipeg. By J. M. Macoun.
NOTE: For summary report see No. 232 or 234. For descriptions of fossils see No. 950 (5.A5), pp. 275-278.
239. (G) Report on an exploration of portions of the Attawapiskat and Albany rivers, Lonely lake to James bay. 1886. Montreal, 1887. pp. 39, and errata slip. With 4 illustrations and appendix. By R. Bell.
Appendix. List of *Lepidoptera* collected in the southern part of Keewatin district, by Dr. R. Bell. Determined by H. H. Lyman and G. D. Hulst.
NOTE: For summary report see No. 232 or 234. Descriptions of the fossils collected are given in No. 950, part A1, pp. 243-247.
- †240. (J) Report on the geology of a portion of the Eastern Townships, relating more especially to the counties of Compton, Stanstead, Beauce, Richmond, and Wolfe. Montreal, 1887. pp. 70, and slip containing additional note. With map No. 251 and 3 other illustrations. (See also map No. 287.) By R. W. Ells.
NOTE: Map No. 251 is not bound in with the separate. Errata slip in separate. For summary and preliminary report see Nos. 209 or 211, and 232 or 234.
241. (M) Report to accompany quarter-sheet maps 3 S.E. and 3 S.W. Surface geology of northern New Brunswick and southeastern Quebec. Montreal, 1887. pp. 39. With maps Nos. 252 and 253. By R. Chalmers.
NOTE: For preliminary report see No. 209 or 211.

242. (N) Report on explorations in portions of the counties of Victoria, Northumberland, and Restigouche, New Brunswick. To accompany quarter-sheet map 2 N.W. Montreal, 1887. pp. 19. With map No. 254. By L. W. Bailey and W. McInnes.
NOTE: Map is not bound in with the separate. For preliminary reports see Nos. 209 or 211, and 232 or 234.
243. (P) Report on geological surveys and explorations in the counties of Guysborough, Antigonish, Pictou, Colchester, and Halifax, Nova Scotia, from 1882 to 1886. Montreal, 1887. pp. 163, and errata slip (in separate only). With 2 illustrations. By H. Fletcher and E. R. Faribault.
This report consists of two parts:
1. Report on geological surveys and explorations in the counties of Guysborough, Antigonish, and Pictou, Nova Scotia. By H. Fletcher.
2. Report on the Lower Cambrian rocks of Guysborough and Halifax counties, Nova Scotia. By E. R. Faribault.
NOTE: See maps Nos. 378 to 390, 550, 551, 565. Nos. 379 to 390, 550, 551, were issued in a portfolio (1895) to accompany this report. For preliminary reports see summary reports of the director from 1881 to 1886 inclusive (in Nos. 154, 167, 209 or 211, 232 or 234).
244. (R) Notes to accompany a geological map of the northern portion of the Dominion of Canada, east of the Rocky mountains. Montreal, 1887. pp. 62. With map No. 255. By G. M. Dawson.
245. (S) Statistical report on the production, value, exports and imports of minerals in Canada during the year 1886 and previous years. Montreal, 1887. pp. ii, 86, and errata slip (in separate). With table of contents (in separate) and an index. By E. Coste.
NOTE: Contains special articles on salt and silver by E. D. Ingall.
246. (T) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1887. pp. 44. With table of contents (in separate). By G. C. Hoffmann.
- Accompanying Maps and Sections:*
- †247. Geological map of the northern part of Vancouver island and adjacent coasts. (First edition). 1887. With inset plans of Koskimo coal area, Lasqueti island, and Nimpkish lake. Scale: 8 miles to 1 inch.
See part B.
NOTE: No later edition of this map has been published. See also maps Nos. 1241 and 1278.
- †248. Section across the Rocky mountains in the vicinity of the Canadian Pacific railway, near the fifty-first parallel. Vertical and horizontal scales 2 miles to 1 inch.
See part D.
NOTE: Not issued separately.
- †249. Geological map of part of northern Alberta, and portions of the districts of Assiniboia and Saskatchewan, North West Territory. 1887. Scale: 8 miles to 1 inch.
See part E.
NOTE: Area described in Alberta is now a part of central Alberta. See note to part E.
- †250. Map showing wooded and prairie tracts &c. in part of northern Alberta, and portions of the districts of Assiniboia and Saskatchewan, North West Territory. 1887. Scale: 8 miles to 1 inch.
See part E.
NOTE: See note to No. 249.
- †251. Geological map of the Eastern Townships. S.E. quarter-sheet [Sherbrooke sheet]. 1887. Scale: 4 miles to 1 inch.
See part J.
NOTE: Sheet bears only title of the complete topographical base map: "Map of a part of the province of Quebec, Dominion of Canada". Plate corrected. The geographical basis for this map, and also for maps Nos. 375, 571, and 665, is the topographical map of the Eastern Townships prepared by the Geological Survey, of which two editions have been published, one by Walker & Miles in 1875, the other by Dawson Bros. in 1883. See Nos. 376 and 377.
252. Map-sheet No. 3 S.W. [Dalhousie sheet], province of New Brunswick and part of Quebec. 1887. Surface geology. (Comprises parts of Resti-

- gouche county, N.B., and Bonaventure, Rimouski, and Matane counties, Que.) Scale: 4 miles to 1 inch. See part M.
253. Map-sheet No. 3 S.E. [Bathurst sheet]. Province of New Brunswick and part of Quebec. 1887. Surface geology. (Comprises parts of Restigouche and Gloucester counties, N.B., and Bonaventure and Gaspé counties, Que.) Scale: 4 miles to 1 inch. See part M.
- †254. Map-sheet No. 2 N.W. [Grand Falls sheet]. Province of New Brunswick. 1887. (Comprises parts of Victoria, Northumberland, and Restigouche counties, N.B.) Scale: 4 miles to 1 inch. See part N.
- †255. Geological map of the northern part of the Dominion of Canada, east of the Rocky mountains. 1887. Scale: about 200 miles to 1 inch. See part R.
- The following maps of the province of Nova Scotia were published at later dates than the maps in the portfolio accompanying the Annual Report (for details see under No. 233), and illustrate part P:
378. [Part of Guysborough county.] Sheet No. 11 S.W. Province of Nova Scotia. 1891. Scale: 4 miles to 1 inch.
379. Map-sheet No. 25. [Guysborough Town sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
380. Map-sheet No. 26. [Whitehaven sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
381. Map-sheet No. 27. [Isaac Harbour sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
NOTE: "Isaac's" on back of folded map and on map itself.
382. Map-sheet No. 28. [Gegogan sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
383. Map-sheet No. 29. [Sherbrooke sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
384. Map-sheet No. 30. [Country Harbour sheet.] Province of Nova Scotia. (Guysborough county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
385. Map-sheet No. 31. [Roman Valley sheet.] Province of Nova Scotia. (Antigonish and Guysborough counties). 1894 (dated 1893). Scale: 1 mile to 1 inch.
386. Map-sheet No. 32. [Pomquet Harbour sheet.] Province of Nova Scotia. (Antigonish county). 1894 (dated 1893). Scale: 1 mile to 1 inch.
387. Map-sheet No. 33. [Cape George sheet.] Province of Nova Scotia. (Antigonish county). 1895 (dated 1893). Scale: 1 mile to 1 inch.
388. Map-sheet No. 34. [Antigonish sheet.] Province of Nova Scotia. (Antigonish and Pictou counties). 1895 (dated 1893). Scale: 1 mile to 1 inch.
NOTE: Title on back of folded map in portfolio reads: "Antigonish Town sheet".
389. Map-sheet No. 35. [Lochaber sheet.] Province of Nova Scotia. (Guysborough, Antigonish, and Pictou counties). [1895.] Scale: 1 mile to 1 inch.
390. Map-sheet No. 36. [West River St. Mary sheet.] Province of Nova Scotia. (Guysborough, Antigonish, and Pictou counties). 1895 (dated 1893). Scale: 1 mile to 1 inch.
NOTE: "St. Mary's" on back of folded map and on map itself.
550. Map-sheet No. 37. [Liscomb River sheet.] Province of Nova Scotia. (Guysborough and Halifax counties). 1895 (dated 1893). Scale: 1 mile to 1 inch.
551. Map-sheet No. 38. [Moser River sheet.] Province of Nova Scotia. (Guysborough and Halifax counties). 1895 (dated 1893). Scale: 1 mile to 1 inch.
NOTE: "Moser's" on back of folded map and on map itself.
565. Map-sheet No. 39. (Tangier sheet). Province of Nova Scotia. (Halifax county). 1896. Scale: 1 mile to 1 inch.

- †256. **Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1887, being part III, Annual Report of the Department of the Interior, 1887.** Ottawa, 1889. 8vo. pp. ii, 40. By A. R. C. Selwyn.
Contains, in addition to preliminary reports noted elsewhere under the final reports:
Notes, by the director, on the Gaspé oil-field; on the cuprifera pyrrhotite deposits of Sudbury, Ontario; the silver-lead mines of the Illecillewaet district, British Columbia.
On explorations between the St. Maurice and Batiscan rivers, Quebec, with notes by the director on occurrences of gas and oil in Quebec. By J. C. K. Lafamme.
- †257. **Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1888, being part III, Annual Report of the Department of the Interior, 1888.** Ottawa, 1889. 8vo. pp. ii, 41. By A. R. C. Selwyn.
Contains, in addition to preliminary reports noted under the final reports:
Notes, by the director, on the Vermilion gold mine, district of Algoma, Ontario.
Work of A. Bowman in the New Westminster district, British Columbia, summarized by the director.
Investigations of the Lièvre River phosphate deposits in Ottawa county, Quebec. (See maps Nos. 1062, 1063.) By E. D. Ingall.
Work in portions of the area covered by maps Nos. 565, 592, 611, 624, Halifax county, Nova Scotia. By E. R. Faribault.
258. (E) **Annual Report (new series), volume III, 1887-88.** Published in English, Montreal, and French, Ottawa, 1889. Issued in two parts. 8vo. pp., English xx, 1446, French xxv, 1640. With maps Nos. 274, 280, 281, 282, 285, plate of sections No. 284, folding section, and 75 other illustrations. Accompanied by portfolio containing maps Nos. 275 to 279, 283, 286, 288, 289. Maps Nos. 287, 290, 363, 373, 374, 375 were issued separately, also another portfolio containing maps Nos. 364 to 371 and section No. 372.
Contains the following reports (no French separates) and an index:
259. (A) **Summary Reports of the operations of the Geological Survey for the years 1887 and 1888.** Montreal, 1888. pp. ii, 117. By A. R. C. Selwyn.
NOTE: Cover of separate is dated 1889. A reprint of Nos. 256 and 257.
- †260. (B) **Report on an exploration in the Yukon district, N.W.T., and adjacent northern portion of British Columbia.** 1887. Montreal, 1889 (dated 1888). pp. 284. With map No. 274, 13 other illustrations, appendices I to VII, and index (in separate).
Accompanied by separate envelope containing map-sheets Nos. 275, 276, 277. By G. M. Dawson.
NOTE: See also report No. 629 and map No. 304. For descriptions of fossils see No. 443 (4.B1).
Appendix I. Notes on the distribution of trees and of certain shrubs in the Yukon district and adjacent northern portion of British Columbia. By G. M. Dawson.
- †261. Appendix II. Notes on the Indian tribes of the Yukon district and adjacent northern portion of British Columbia. pp. 23. By G. M. Dawson.
NOTE: Separate has no cover-title, date, or place of publication.
Appendix III. List of plants collected by Dr. G. M. Dawson in the Yukon district and adjacent northern portion of British Columbia in 1887. By John Macoun.
Appendix IV. Zoology.
List of diurnal *Lepidoptera*. By J. Fletcher.
1. List of diurnal *Lepidoptera* collected in the Yukon district and adjacent northern portion of British Columbia.

¹See foot-note on p. 32.

2. List of diurnal *Lepidoptera* collected by Mr. W. Ogilvie on Mackenzie river in 1888.
3. List of diurnal *Lepidoptera* collected by Mr. Fredk. Bell at the instance of Mr. R. G. McConnell, at Fort Simpson, Mackenzie river (lat. 61° 52'), 1888.
- Fishes, determined from photographs. By T. H. Bean.
- Description of a new red-backed mouse (*Eutamias dawsoni*) from the headwater of Liard river, North West Territories. By C. H. Merriam.
- †262. Appendix V. Notes on the lithological character of some of the rocks collected in the Yukon district and adjacent northern portion of British Columbia. pp. 6. By F. D. Adams.
- NOTE: Separate has no cover, date, or place of publication.
- Appendix VI. Meteorological observations.
1. Meteorological observations in the Yukon district and adjacent northern part of British Columbia, June 1 to September 19, 1887. [By J. McEvoy.]
 2. Observations at Telegraph creek, Stikine river, B.C., during portions of the years 1881 to 1886. By J. C. Callbreath.
 3. Observations at Laketon, Dease lake, B.C., during portions of the years 1878 to 1882. By J. Clearihue.
 4. Record of temperature at Laketon, Dease lake, B.C., during portions of the years 1886 and 1887. By R. Reed.
- Appendix VII. Summary of astronomical observations employed in the construction of the map accompanying this report. (See map No. 274, and map-sheets Nos. 275, 276, 277.) By G. M. Dawson.
- NOTE: For preliminary report see No. 256 or 259. A reprint, without change, of part B (No. 260), omitting the appendices; and of those portions of part D, Annual Report, 1888-89 (No. 295, pp. 13, 14, 21-23, 27-31, 33-55, 115-145) relating to the Porcupine and Yukon rivers, was published in 1898. See No. 629.
629. Report on an exploration in the Yukon district, N.W.T. and adjacent northern portion of British Columbia, 1887, with extracts relating to the Yukon district from report on an exploration in the Yukon and Mackenzie basins 1887-88 by R. G. McConnell. Ottawa, 1898. 8vo. pp. viii, 244. With 16 illustrations. Accompanied by envelope containing maps Nos. 275, 276, and 277 (2nd editions, January, 1898). By G. M. Dawson.
263. (C) Report on the geology of the mining district of Cariboo, British Columbia, Montreal, 1888. pp. 49. With maps Nos. 278 to 281, folding section, and 4 other illustrations. By A. Bowman.
- NOTE: A portfolio containing maps Nos. 364 to 371, section No. 372, and a single leaf of explanation entitled: "Note to accompany maps of the principal auriferous creeks of the Cariboo mining district British Columbia," by G. M. Dawson, was issued in 1895 to illustrate this report. The survey and investigation of the district was undertaken at the request and with the co-operation of the Provincial Government of British Columbia during 1885 and 1886. A preliminary report addressed to A. R. C. Selwyn, accompanied by an outline map, was published as a separate at Victoria, B.C., in 1886. A preliminary report on the work of 1886 is contained in the annual report of the Minister of Mines, British Columbia, for 1886. See also summaries in reports Nos. 209, 211, 232, and 234.
264. (E) Notes to accompany a preliminary map of the Duck and Riding mountains in northwestern Manitoba. Montreal, 1888. pp. 16. With map No. 282 and 1 illustration. By J. B. Tyrrell.
- NOTE: For preliminary report see No. 256 or 259. See also report No. 325. Owing to the extension of the boundaries of Manitoba, the district described now lies mainly in southwestern Manitoba with a small part in southeastern Saskatchewan.
- †265. (F) Report on the geology of the Rainy Lake region. Montreal, 1889 (dated 1888). pp. ii, 190. With map No. 283, plate of sections No.

- 284, 22 other illustrations, table of contents, and an index (in separate).
By A. C. Lawson.
NOTE: For preliminary reports see Nos. 209 or 211; 232 or 234; 256 and 257, or 259. See also map No. 373. See also Nos. 582 or 583 (McInnes) and Memoir 40 (No. 1288).
266. (H) Report on mines and mining on lake Superior. Part I [all published]. A. History and general conditions of the region. B. Silver mining. Montreal, 1888. pp. 124, and errata slip. With maps Nos. 285, 286 (in separate envelope), 20 plans and sections of mines, 4 other illustrations, appendices I and II, and supplementary report (No. 544, not in the separate). By E. D. Ingall.
- †545. Appendix I. Notes of microscopical examinations of rocks from the Thunder Bay silver district. pp. 8. By W. S. Bayley.
NOTE: Separate bears no date or place of publication.
- Appendix II.
Literature.
Milling of silver ores at the Silver Islet mine. [By E. D. Ingall.]
NOTE: For summaries and preliminary report see Nos. 209 or 211, and 232 or 234.
- †544. Supplementary report to Part I.-B. Silver mining. Dated Ottawa, June 1st, 1889. pp. 7. With section of Badger mine. By E. D. Ingall.
NOTE: Separate has no cover. Accompanying section inserted loose.
267. (J) Report on explorations in James bay and country east of Hudson bay, drained by the Big, Great Whale, and Clearwater rivers. Montreal, 1889 (dated 1888). pp. 94. With 3 illustrations, and appendices I to IV. By A. P. Low.
NOTE: Cover of separate is correctly dated 1889.
- Appendix I. List of plants collected on the Rupert and Moose rivers, along the shores of James bay, and on the islands in James bay, during the summers of 1885 and 1887. By J. M. Macoun.
- Appendix II. List of diurnal *Lepidoptera* and *Coleoptera* collected by Mr. J. S. Cotter at Moose Factory in 1888, and by Mr. J. M. Macoun on the south coast and islands of James bay in 1887. Determined by J. Fletcher.
- Appendix III. Notes on the breeding habits of certain mammals, from personal observations and enquiries from Indians. By M. Spencer.
- Appendix IV. Meteorological observations on James bay in 1887, by A. R. Cunningham, and on the east coast of Hudson bay in 1888, by C. H. Macnutt.
NOTE: For preliminary reports see Nos. 256 and 257, or 259. See also maps Nos. 585 and 587.
268. (K) Second report on the geology of a portion of the province of Quebec. Montreal, 1888. pp. 120. With maps Nos. 375 (published 1892), 287 (published 1890), and appendix. By R. W. Ells.
Appendix. Systematic list of fossils, with localities as referred to in this report, exclusive of those species obtained in the limestone conglomerate bands. By H. M. Ami.
NOTE: Cover-title of separate reads: "Second report on the geology of a portion of the province of Quebec, relating more especially to the counties of Megantic, Beauce, Dorchester, Lévis, Bellechasse, and Montmagny". For preliminary reports see Nos. 256 and 257, or 259. See also report No. 328.
269. (M) Report on explorations and surveys in portions of northern New Brunswick and adjacent areas in Quebec and in Maine, U.S. Montreal, 1889 (dated 1888). pp. 52. With map No. 290. By L. W. Bailey and W. McInnes.
NOTE: Map No. 290 is not bound in with the separate. Cover of separate is dated 1889. For preliminary reports see Nos. 232 or 234, and 256 or 259.
270. (N) Report on the surface geology of northeastern New Brunswick, to accompany quarter-sheet maps 2 N.E. and 6 S.W. [Nos. 289 and 288]. Montreal, 1888. pp. 33. With 3 illustrations. By R. Chalmers.

- NOTE: Maps Nos. 288 and 289 are not bound in with the separate. For preliminary report see No. 232 or 234.
- †271. (R) The mineral wealth of British Columbia, with an annotated list of localities of minerals of economic value. Montreal, 1889. pp. 163. With 4 illustrations. By G. M. Dawson.
NOTE: Cover of separate is incorrectly dated 1888.
272. (S) Report on the mining and mineral statistics of Canada for the year 1887. Montreal, 1888. pp. ii, 114. By E. Coste.
NOTE: Includes special articles, "The iron ores and phosphate deposits in the Archæan rocks of Canada", by E. Coste (see map No: 374), and "Precious stones", by G. F. Kunz. Separate has a table of contents and index. For summary of field-work see No. 256 or 259.
273. (T) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1888. pp. ii, 58. With table of contents (in separate). By G. C. Hoffmann.
- †274. *Accompanying Maps, Plans, and Sections:*
Index map of the Yukon district, N.W.T., the northern portion of British Columbia and adjacent regions, to accompany report of George M. Dawson. [1889.] Scale: 60 miles to 1 inch. See part B.
Map of a portion of the Yukon district, North West Territory, with the adjacent northern part of British Columbia. [1889.] Scale: 8 miles to 1 inch. See part B.
In three sheets, as follows:
†275. Sheet I. [Comprises the Stikine river and a portion of the Dease river.]
†276. Sheet II. [Comprises Upper Liard and Frances rivers, and upper portion of Pelly river.]
†277. Sheet III. [Comprises the head of Lynn canal, the Lewes river, and lower portion of the Pelly river.]
NOTE: A revised edition of this map was published January, 1898, and issued in an envelope to accompany report No. 629. See also index map No. 917.
278. Map of the Cariboo mining district, British Columbia. [1888?.] Scale: 2 miles to 1 inch. See part C.
279. Quartz veins and placer mines of Island mountain and Mosquito creek, in Cariboo district, British Columbia. [1888?.] Scale: 480 feet to 1 inch. See part C.
280. Detail map of Hixon Creek quartz locations, in Cariboo district, British Columbia. With adjacent placers. [1888?.] Scale: 425 feet to 1 inch. See part C.
281. Veins and placer mines of Hixon creek, in Cariboo district, British Columbia. [1888?.] Scale: 32 chains to 1 inch. See part C.
- Maps of the principal auriferous creeks in the Cariboo mining district, British Columbia, by A. Bowman. See part C.
NOTE: In 1895 a portfolio with the above cover-title was issued, containing the following maps and section, with a single leaf of explanation by G. M. Dawson (dated April, 1895), which illustrate Mr. Bowman's report:
364. Map of placer mines and quartz locations in the vicinity of Williams creek, Cariboo district, British Columbia. [1893.] Scale: 10 chains to 1 inch.
365. Map of placer mines and quartz veins in the vicinity of Lightning creek. [1893.] Scale: 13½ chains to 1 inch.
366. Placer mines of Antler creek in Cariboo district, British Columbia. [1893.] Scale: about 26 chains to 1 inch.
367. Quartz veins & placer diggings in the vicinity of Grouse creek, Cariboo district, British Columbia. [1893.] Scale: about 1 mile to 3¼ inches.
368. Placer mines of Cunningham creek. [1893.] Scale: about 1 mile to 3 inches.
369. Quartz veins & placer mines of Little Snowshoe and Keithley creeks, Cariboo district, British Columbia. [1890.] Scale: 1 mile to 2¼ inches.
370. Veins & placer mines of Sugar creek, Hardscrabble, Slough creek, Nelson

- creek, Willow river, and Dragon creek, Cariboo district, British Columbia. [1890.] Scale: 1 mile to $2\frac{1}{2}$ inches.
371. Placer mines of Harvey creek in Cariboo district, British Columbia. [1890.] Scale: 1 mile to $4\frac{1}{2}$ inches.
372. Section along Harvey creek. Showing explorations of deep channel. [1890.] Vertical scale exaggerated 5 times to 1 of horizontal distance.
- †282. Topographical map of Duck and Riding mountains in northwestern Manitoba. 1889 (dated 1888). Scale: 8 miles to 1 inch. See part E.
373. Map-sheet No. 2. Geological and topographical map of the Lake of the Woods and Rainy river (Rainy River sheet). 1892 (dated 1890). Scale: 2 miles to 1 inch. See part F.
NOTE: Issued separately to illustrate part F; also part CC in Annual Report, 1885. Not in Annual Report, 1887-88, or accompanying portfolios.
- †283. Map-sheet No. 3. (Rainy Lake sheet). Province of Ontario, district of Rainy River. 1889 (dated 1887). Scale: 4 miles to 1 inch. See part F.
- †284. Diagrammatic sections across Keewatin trough along the lines indicated on the accompanying map [No. 283]. Scale: 2 miles to 1 inch. See part F.
NOTE: Not issued separately.
- †285. Sketch map of the Thunder Bay mining region of lake Superior. 1888 (dated 1887). Scale: 4 miles to 1 inch. See part H.
286. Geological and topographical map of the Silver Mountain mining district. 1888 (dated 1887). Scale: 20 chains to 1 inch. See part H.
287. Plan of the asbestos areas in the townships of Thetford, Coleraine, Wolfestown, and Ireland. 1890. Scale: 40 chains to 1 inch. See part K.
NOTE: Issued separately, to illustrate part K; also part J, Annual Report, 1886. Not in Annual Report or portfolios accompanying it.
375. Geological map of the Eastern Townships. N.E. quarter-sheet (Quebec sheet). Province of Quebec. 1892 (dated 1890). Scale: 4 miles to 1 inch. See part K.
NOTE: Issued separately. Not in Annual Report or portfolios accompanying it. Title on map reads: "Province of Quebec (Eastern Townships map)". See also note under No. 251.
288. Map-sheet No. 6 S.W. [Shippigan sheet.] Province of New Brunswick. 1889? (dated 1887). Surface geology. (Comprises part of Gloucester county.) Scale: 4 miles to 1 inch. See part N.
289. Map-sheet No. 2 N.E. [Newcastle sheet.] Province of New Brunswick. 1889? (dated 1887). Surface geology. (Comprises parts of Northumberland and Gloucester counties.) Scale: 4 miles to 1 inch. See part N.
290. Map-sheet No. 17 N.E. [Madawaska sheet.] Province of New Brunswick. 1889 (dated 1888). (Comprises parts of Madawaska county, N.B., Temiscouata county, Que., and the state of Maine, U.S.A.) Scale: 4 miles to 1 inch. See part M.
NOTE: Issued separately. Not in Annual Report or portfolios accompanying it.
374. Geological and topographical map of the Madoc and Marmora mining district. 1889 (dated 1886). Scale: 40 chains to 1 inch. See part S, p. 63.
NOTE: Issued separately. The report to accompany this map was not completed, owing to Mr. Coste's resignation in 1889. See also part A, pp. 20-21, Annual Report for 1886.
- The following map, including nearly the same area as that covered by map No. 127, was published separately in 1888, accompanied by a single leaf of explanation entitled: "Note to accompany map of a portion of the southern interior of British Columbia", dated December, 1887.
363. Map of a portion of the southern interior of British Columbia, embodying the explorations made in 1877 by G. M. Dawson, and in 1882-4 by Amos Bowman. 1888. Preliminary edition, not geologically coloured. Scale: 8 miles to 1 inch.

291. **Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1889, being part III, Annual Report of the Department of the Interior, 1889.** Ottawa, 1890. 8vo. pp. 44. By A. R. C. Selwyn.
 Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
 Observations along the north shore of the lower St. Lawrence river and in the strait of Belleisle, notes on the Huronian rocks of Canada, and on investigations bearing on the water-supply in the Northwest, by the director.
 Investigations of the Lièvre River phosphate deposits in Ottawa county, Quebec. (See maps Nos. 1062, 1063). By E. D. Ingall.
 Field-work of T. C. Weston in Alberta, Saskatchewan, Ontario, and Quebec, collecting fossils, summarized by J. F. Whiteaves.
 Work in portions of the area covered by maps Nos. 624, 634, 635, 908. Halifax and Colchester counties, Nova-Scotia. By E. R. Faribault.
292. (E) **Annual Report (new series), volume IV, 1888-89.** Published in English, Montreal, and French, Ottawa, 1891 (dated 1890). 8vo. pp., English xiii, 1090, and 3 errata slips, French xiv, 1119. With maps Nos. 303, 304, 314, 316, sections No. 315, and 3 other illustrations. Accompanied by portfolio (issued 1892) containing maps Nos. 305 to 313, 317 to 319. Contains the following reports (no French separates) and an index:
- †295. (F) (A) Summary report of the operations of the Geological Survey for the year 1889. Montreal, 1890. pp. ii, 66. By A. R. C. Selwyn.
 NOTE: Through error, inscription on cover and title-page of separate reads: "for the years 1888 and 1889." Reprint of No. 291.
- (B) Report on a portion of the West Kootenay district, British Columbia, 1889. Montreal, 1890. pp. 66. With map No. 303, and 2 other illustrations. By G. M. Dawson.
 NOTE: For preliminary report see No. 291 or 293.
- †295. (D) Report on an exploration in the Yukon and Mackenzie basins, N. W. T. Montreal, 1891. pp. 163. With map No. 304 and appendix. By R. G. McConnell.
 Appendix. Meteorological observations. [By R. G. McConnell.]
 NOTE: See maps Nos. 305 to 313 (in portfolio), also report No. 629. For preliminary reports see Nos. 256 and 257, or 259. Some of the fossils are described in No. 443 (4A).
296. (E) Report of exploration of the glacial lake Agassiz in Manitoba. Montreal, 1890. pp. 156. With maps Nos. 314, 316, plate of sections No. 315, and appendices I and II. By W. Upham.
 Appendix I. Courses of glacial striae.
 (Region of Hudson bay and lake Superior, and westward, from observations by R. Bell, A. S. Cochrane, and others; and Minnesota, by W. Upham.)
 Appendix II. Tables of altitudes. (From railway surveys, and other sources of information.) [By W. Upham.]
297. (K) Report on the mineral resources of the province of Quebec. Montreal, 1890. pp. 159. By R. W. Ells.
298. (N) Report on the surface geology of southern New Brunswick to accompany quarter-sheet maps 1 S. W., 1 S. E., and 1 N. E. (Nos. 317, 318, and 319.) Montreal, 1890. pp. 92, errata slip, and notice regarding above maps (in separate). With 1 illustration. By R. Chalmers.
 NOTE: For preliminary reports see Nos. 256 and 257, or 259; and 291 or 293.
299. (R) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Montreal, 1890. pp. ii, 68. With table of contents (in separate). By G. C. Hoffmann.
- †300. (S) Report on the mining & mineral statistics of Canada for the year 1888. Montreal, 1889 (dated 1888). pp. 93. By H. P. Brumell.
 NOTE: Cover of separate is correctly dated 1889. For notes on field-work see No. 257 or 259.

¹ See foot-note on p. 32.

- †301. (SS) Division of mineral statistics & mines. Annual report for 1889. Montreal, 1890. pp. 124, and 2 errata slips (in volume only). With an index. By E. D. Ingall.
NOTE: "(S)" printed on report should be "(SS)." Contains special articles on natural gas and petroleum by H. P. Brumell. For preliminary report on field-work see No. 291 or 293.
302. (T) Annotated list of the minerals occurring in Canada. Montreal, 1890. pp. ii, 67. (Reprinted from Proceedings and Transactions of the Royal Society of Canada, vol. VII, sec. III, 1889.) By G. C. Hoffmann.
- Accompanying Maps and Sections:*
- †303. Reconnaissance map of a portion of the West Kootenay district, British Columbia, 1890. Scale: 8 miles to 1 inch. See part B.
- †304. Index map showing the routes followed by the members of the Yukon expedition, 1887-88. 1891. Scale: 48 miles to 1 inch. See part D.
Map of a portion of the Mackenzie and Yukon basins. 1891. Scale: 8 miles to 1 inch. See part D.
In nine sheets, as follows:
- †305. Sheet No. 1. [Slave river. Fort Chipewyan on lake Athabaska to Fort Resolution on Great Slave lake.]
- †306. Sheet No. 2. [Mackenzie river. Fort Resolution on Great Slave lake to Fort Providence on the Mackenzie river, with winter traverse route from Fort Providence to Fort Rae on the northern arm of Great Slave lake.]
- †307. Sheet No. 3. [Mackenzie river. Fort Providence to Fort Simpson.]
- †308. Sheet No. 4. [Liard river. From the mouth of the Dease river to a point about 15 miles above the mouth of the Nahanni river.]
- †309. Sheet No. 5. [Mackenzie river. From Fort Simpson to near the mouth of the Blackwater river; with a part of the Liard river.]
- †310. Sheet No. 6. [Mackenzie river. From the mouth of the Blackwater river to a point about 24 miles above Fort Good Hope.] See also index map No. 917.
- †311. Sheet No. 7. [Mackenzie river. Fort Good Hope to the Peel river; and routes to Lapierre House.] See also index map No. 917.
- †312. Sheet No. 8. [Porcupine river, from its headwaters to the lower end of the Ramparts.] See also index map No. 917.
- †313. Sheet No. 9. [Yukon or Pelly river, from Fort Selkirk to the mouth of the Tatonduc river.] See also index map No. 917.
- †314. Map of the glacial lake Agassiz and adjoining portions of North America. Scale: about 220 miles to 1 inch. See part E.
NOTE: Not issued separately. Missing in French volume.
- †315. Sections illustrating the report on the glacial lake Agassiz in southern Manitoba. (6 small sections. Various scales.) See part E.
NOTE: Not issued separately. Missing in French volume.
- †316. Map of the beaches and deltas of the glacial lake Agassiz in southern Manitoba. Scale: 21 miles to 1 inch. See part E.
NOTE: Not issued separately. Missing in French volume.
317. Map-sheet No. 1 S.W. [St. Stephen sheet.] Province of New Brunswick. 1892 (dated 1890). Surface geology. (Comprises Charlotte county, parts of St. John and Kings counties, and Grand Manan island.) Scale 4 miles to 1 inch. See part N.
318. Map-sheet No. 1 S.E. [St. John sheet.] Province of New Brunswick. 1892 (dated 1890). Surface geology. (Comprises parts of St. John and Kings counties.) Scale: 4 miles to 1 inch. See part N.
319. Map-sheet No. 1 N.E. [Grand Lake sheet.] Province of New Brunswick. 1892 (dated 1890). Surface geology. (Comprises parts of Sunbury, Queens, Kings, Albert, and Westmorland counties.) Scale: 4 miles to 1 inch. See part N.
- †320. (E) **Summary Report of the Geological Survey Department for the year 1890.** Published in English and French, Ottawa. 1891. 8vo. pp., English 57, French 62. (Blue-book form.) By A. R. C. Selwyn.
†946. (F) Contains, in addition to preliminary reports noted elsewhere under the final reports¹:

¹See foot-note on p. 32.

The new Act, 53 Vic. chap. 11, assented to May 16th, 1890, making the Geological Survey a separate Department.

Notes by the director on investigations in the gold-fields of Shelburne and Queens counties, Nova Scotia; artesian wells at Deloraine and Morden, Manitoba; the Turtle Mountain coal-field, Manitoba; portions of the country along the line of the Canadian Pacific railway between Illecillewaet, B.C., and Canmore, Alberta; and some mining camps in West Kootenay district, British Columbia.

Work in the area of the Shuswap sheet (maps Nos. 604 and 669), British Columbia. By G. M. Dawson.

Work of W. H. C. Smith in the area of the Ignace sheet (map No. 663), Rainy River and Thunder Bay districts, Ontario, summarized by the director.

Work of A. S. Cochrane in Bruce county, Ontario (area of sheet 107, not published), summarized by the Director.

Geological investigations in Charlevoix county, Quebec. By J. C. K. Laflamme.

Exploration of the region around lake St. John, Quebec. By A. P. Low.

Work of E. R. Faribault in the areas covered by maps Nos. 565, 611, 700, 807, Halifax county, Nova Scotia, summarized by the director.

NOTE: This is the first Summary Report issued in the regular blue-book form for the information of Parliament.

321. (E) **Summary Report of the Geological Survey Department for the year 1891.** Published in English and French, Ottawa, 1892. 8vo. pp., English 60, French 64. (Blue-book form.) By A. R. C. Selwyn. Contains, in addition to preliminary reports noted elsewhere under the final reports¹:

Notes, by the director, on his investigations of natural gas near St. Hyacinthe, Quebec; the artesian well at Deloraine, Manitoba; the nickeliferous pyrrhotite deposit near Schreiber, Ontario, and the rocks between Schreiber and Pic river; the reported discoveries of oil in the vicinity of Pincher creek, and in the South Kootenay pass, Alberta, and the Flathead valley, British Columbia; and the coal seams in the Crowsnest pass, British Columbia.

Work in the area of the Shuswap sheet (maps Nos. 604 and 669). British Columbia. By J. McEvoy.

Notes on an examination of the Bow River valley, near Kananaskis, Alberta. By R. G. McConnell.

Work of W. H. C. Smith in the areas of the Manitou Lake sheet (map No. 720) and the Ignace sheet (map No. 663), Rainy River district, Ontario, summarized by the director.

Work on the north shore of the St. Lawrence river, between Murray Bay and Tadousac. By J. C. K. Laflamme.

Notes on the Little Ditton gold district, Compton county, Quebec; and work in portions of the area covered by maps Nos. 635, 700, 807, 908, 1005, 1019, 1025, and plans Nos. 642, 666, 721, 740, Halifax, Colchester, and Hants counties, Nova Scotia. By E. R. Faribault.

Notes on the Lièvre River phosphate deposits in Ottawa county, Quebec. (See maps Nos. 1062, 1063). By E. D. Ingall.

Notes on the discovery of scheelite by W. F. Ferrier in Marlow township, Beauce county, Quebec, summarized by the director.

Notes on the geological investigations of H. M. Ami in the vicinity of Illecillewaet, British Columbia, summarized by J. F. Whiteaves.

Notes on the Rocky Mountains park. By John Macoun.

322. (E) **Annual Report (new series), volume V, 1890-91.** Published in English and French, Ottawa, 1893. In two parts, 8vo. pp., English xx, 1552, French xx, 1688. With maps Nos. 336, 347, plans Nos. 341, 344, 345, sections Nos. 337, 338, 346, 348, 349, 351, 24 statistical diagrams, etc. (folding sheets), and 61 other illustrations. Accompanied by portfolio containing maps Nos. 339, 340, 342, 343, 350. A separate envelope containing maps Nos. 594, 595, 596 to accompany part D, was issued in

¹See foot-note on p. 32.

1897, and another in 1905 containing maps Nos. 593, 598, 600, 608, 609, 610, 633, 635, 636, 637, to accompany part P.

NOTE: "Annual Report, vol. V, 1889-90-91" ("1889-90" on some) is printed by mistake on covers of separates of this volume.

Contains the following reports (no French separates) and an index:

- (A) Summary Report on the operations of the Geological Survey for the year 1890. (Reprint from blue-book.) By A. R. C. Selwyn.
NOTE: No separate was issued of this report.
323. (AA) Summary Reports on the operations of the Geological Survey for the year 1891. Ottawa, 1892. pp. 92. (Reprint from blue-book.) By A. R. C. Selwyn.
NOTE: The typographical error "reports" instead of "report" in the title is corrected on cover of separate. The distinguishing letter of this part should be "AA" instead of "A" as printed.
- †324. (D) Report on a portion of the district of Athabaska comprising the country between Peace river and Athabaska river north of Lesser Slave lake. Ottawa, 1893. pp. 67. With map No. 336, sections Nos. 337, 338, and 9 other illustrations. See maps Nos. 594, 595, 596. By R. G. McConnell.
NOTE: For preliminary reports see Nos. 291 or 293, and 320 or 322 (part A, 1890).
- †325. (E) Report on northwestern Manitoba, with portions of the adjacent districts of Assiniboia and Saskatchewan. Ottawa, 1892. pp. 240. With maps Nos. 339, 340, plan No. 341, 10 other illustrations, appendix, and index (in separate). By J. B. Tyrrell.
Appendix. List of photographs taken during the course of the explorations in the summers of 1887-90. [By J. B. Tyrrell.]
NOTE: Owing to the extension of the boundaries of Manitoba, the district described now lies in southwestern Manitoba and a small part in southeastern Saskatchewan. For preliminary reports see Nos. 256 and 257, or 259; 291 or 293; and 320 or 322 (part A, 1890). For descriptions of Upper Silurian fossils from Davis point, lake Manitoba, see No. 950, (5.B2); from northeast shore of lake Winnipegosis, (5.C); and from the Lower Saskatchewan river, (5.D). For Cretaceous fossils see No. 443 (4.C).
326. (F) Report on the Sudbury mining district. To accompany sheet 130, series of geologically coloured maps of Ontario. 1888-90. Ottawa, 1891. pp. 95. With map No. 343, 12 other illustrations, and appendices I to IV. By R. Bell.
Appendix I. Notes on the microscopical character of rocks from the Sudbury mining district, Canada. (Collected in 1889-90 by Dr. Robert Bell). By G. H. Williams.
Appendix II. Levels of lakes above the sea. [Compiled by R. Bell.]
List of approximate elevations of the more important lakes on accompanying map (No. 343).
List of elevations on the Canadian Pacific railway from a point fifty-two (52) miles west of Callander, which is 343.9 miles from Montreal.
Appendix III. Report on *Lepidoptera* collected by Dr. R. Bell in the country northward of lake Huron. By H. H. Lyman.
Appendix IV. Meanings of Indian geographical names in the country around Sudbury. By R. Bell.
NOTE: For preliminary reports see Nos. 257 or 259, 291 or 293, 320 or 322 (part A, 1890).
327. (G) Report on the geology of Hunters island and adjacent country. Ottawa, 1892. pp. 76. With map No. 342 and 3 other illustrations. By W. H. C. Smith.
NOTE: Map No. 342 is not bound in with the separate. For preliminary reports by W. H. C. Smith and A. C. Lawson see Nos. 256 and 257, or 259; 291 or 293.
328. (I) Report on the geology and economic minerals of the southern portion of Portneuf, Quebec, and Montmorency counties, province of Quebec.

- Ottawa, 1892. pp. 82. With 3 illustrations and appendix. By A. P. Low.
- NOTE: For brief summary by A. R. C. Selwyn see No. 291 or 293.
329. Appendix. Notes on the microscopical character of some rocks from the counties of Quebec and Montmorency, collected by Mr. A. P. Low, 1889-91. pp. 10. By W. F. Ferrier.
- NOTE: Separate of appendix bears no date or place of publication.
330. (M) Report on portions of the province of Quebec and adjoining areas in New Brunswick and Maine, relating more especially to the counties of Temiscouata and Rimouski, Que. Ottawa, 1893. pp. 28. With map No. 350 and section No. 351. By L. W. Bailey and W. McInnes.
- NOTE: For preliminary reports see Nos. 256 and 257, or 259; 291 or 293; 320 or 322 (part A, 1890).
331. (P) Report on geological surveys and explorations in the counties of Pictou and Colchester, Nova Scotia. Ottawa, 1892, pp. ii, 193, and errata slip (in separate). See maps Nos. 593, 598, 600, 608, 609, 610, 633, 635, 636, 637, in separate envelope. By H. Fletcher.
- NOTE: The report includes parts of Hants and Cumberland counties. For preliminary reports see Nos. 256 and 257, or 259; 291 or 293; 320 or 322 (part A, 1890); 321 or 323. See also maps Nos. 793 to 796, 826, 836 to 841, 878, 879.
- †332. (Q) Report on natural gas and petroleum in Ontario prior to 1891. Ottawa, 1892. pp. 94. With sketch maps, plans, and sections, Nos. 344 to 349, and appendices A to C. By H. P. H. Brumell.
- Appendix A. Table of Beaumé's hydrometer, with corresponding specific gravities. [By H. P. H. Brumell.]
- Appendix B. Cost of "drilling rig" complete at Petrolia, Ont., F.O.B. [By H. P. H. Brumell.]
- Appendix C. Bibliography. (Taken from the report on petroleum by S. F. Peckham, vol. X, 10th Census, U.S.A.)
333. (R) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Ottawa, 1892. pp. 72, and errata slip (in separate). With table of contents. By G. C. Hoffmann.
- †334. (S) Division of mineral statistics and mines. Annual report for 1890. Ottawa, 1891. pp. 201, and erratum slip. With 12 statistical diagrams (folding sheets) and an index. By E. D. Ingall.
- NOTE: The articles on abrasive materials, petroleum, natural gas, mineral pigments, salt, structural materials, gypsum, and manganese, are credited to H. P. H. Brumell. The paper by A. E. Barlow, "On the nickel and copper deposits of Sudbury, Ont.," is reprinted here from the Ottawa Naturalist, vol. V, pp. 51-71, 1891, also that by R. W. Ells on asbestos, read before the American Institute of Mining Engineers, at Ottawa, October, 1889. For preliminary report on field-work see No. 320 or 322 (part A, 1890).
335. (SS) Division of mineral statistics and mines. Annual report for 1891. Ottawa, 1893. pp. 200. With folding sheet (mineral production), 11 statistical diagrams, and table of contents. By E. D. Ingall.
- NOTE: Contains reprint of paper by L. A. Klein: "The Canadian asbestos industry", read before the General Mining Association of Quebec, 14th June, 1892. For preliminary report on field-work see No. 321 or 323.
- †336. *Accompanying Maps, Plans, and Sections:*
Index map showing the country between the lower portions of the Peace and Athabaska rivers north of Lesser Slave lake. Lat. 55° to 59° N. 1893 (dated 1892). Scale: 48 miles to 1 inch. See part D.
- †337. Section along the Athabaska valley from Athabaska Landing to Fort McMurray. 1892. Horizontal scale: 8 miles to 1 inch; vertical scale: 1,000 feet to 1 inch. See part D.
- NOTE: Not issued separately.

- †338. Section along the Peace valley from Smoky River forks to Peace River falls. 1892. Horizontal scale: 8 miles to 1 inch; vertical scale: 1,000 feet to 1 inch. See part D.
NOTE: Not issued separately.
- The following map was published in 1897, illustrating part D (printed "P" in error on map). See also part B, Report of Progress, 1879-80.
- Map showing the country between the lower portions of the Peace and Athabaska rivers north of Lesser Slave lake. 1897. Scale: 10 miles to 1 inch.
In three sheets:
594. Sheet No. 1. [Lat. 57° to 59° 15', long. 109° 30' to 116° 30'.]
595. Sheet No. 2. [Lat. 54° 30' to 57°, long. 110° 30' to 116° 30'.]
596. Sheet No. 3. [Lat. 54° 30' to 58° 30', long. 116° 30' to 120° 30'.]
339. Geological map of northwestern Manitoba and portions of the districts of Assiniboia and Saskatchewan. 1892 (dated 1891). Scale: 8 miles to 1 inch. See part E.
NOTE: A second edition was published in 1912.
- †340. Map showing forest distribution in northwestern Manitoba and portions of the districts of Assiniboia and Saskatchewan. 1892 (dated 1891). Scale: 8 miles to 1 inch. See part E.
- †341. Plan and elevation of Mossy portage between Cedar lake and lake Winnipegosis. From a survey by D. B. Dowling in 1891. Horizontal scale: 50 chains to 1 inch; vertical scale: 120 feet to 1 inch. See part E.
NOTE: Not issued separately.
343. Map-sheet No. 130. (Sudbury sheet). Province of Ontario, districts of Algoma and Nipissing. 1891. Scale: 4 miles to 1 inch. See part F.
- †342. Map-sheet No. 7. (Hunter Island sheet). Province of Ontario, district of Rainy River. 1892 (dated 1890). Scale: 4 miles to 1 inch. See part G.
350. Map-sheet No. 18 S.E. [Temiscouata sheet.] Province of Quebec and part of New Brunswick. 1893 (dated 1892). (Comprises parts of Temiscouata, Rimouski, and Kamouraska counties, Que., and Restigouche county, N.B.) Scale: 4 miles to 1 inch. See part M.
- †351. General section representing the supposed arrangement of the Cambrian rocks on the line of the Temiscouata Portage road, between Temiscouata lake and Riv. du Loup. Scale: about 7 miles to 1 inch. See part M.
- The following maps (Nos. 593, 598, 600, 608, 609, 610, 633, 635, 636, 637) illustrating part P, published separately at various dates between 1901 and 1903, were, in 1905, issued together in an envelope to accompany that part. The envelope of maps, with inscription in French, was also issued to accompany the French edition of Annual Report, vol. V.
593. Map-sheet No. 42. (Trafalgar sheet). Province of Nova Scotia. 1901 (Halifax, Pictou, and Guysborough counties). Scale: 1 mile to 1 inch. See part P.
598. Map-sheet No. 43. (Stellarton sheet). Province of Nova Scotia. 1902. (Pictou county). Scale: 1 mile to 1 inch. See part P.
600. Map-sheet No. 44. (New Glasgow sheet). Province of Nova Scotia. 1902. (Pictou county). Scale: 1 mile to 1 inch. See part P.
608. Map-sheet No. 45. (Toney River sheet). Province of Nova Scotia. 1902. (Pictou county). Scale: 1 mile to 1 inch. See part P.
609. Map-sheet No. 46. (Pictou sheet). Province of Nova Scotia. 1903. (Pictou county). Scale: 1 mile to 1 inch. See part P.
610. Map-sheet No. 47. (Westville sheet). Province of Nova Scotia. 1903 (dated 1902). (Pictou and Colchester counties). Scale: 1 mile to 1 inch. See part P.
633. Map-sheet No. 48. (Eastville sheet). Province of Nova Scotia. 1903 (dated 1902). (Pictou, Colchester, and Halifax counties). Scale: 1 mile to 1 inch. See part P.

635. Map-sheet No. 56. (Shubenacadie sheet). Province of Nova Scotia. 1903. (Colchester and Halifax [and Hants] counties). Scale: 1 mile to 1 inch. See part P.
636. Map-sheet No. 57. (Truro sheet). Province of Nova Scotia. 1903 (dated 1902). (Colchester county). Scale: 1 mile to 1 inch. See part P.
637. Map-sheet No. 58. (Earlton sheet). Province of Nova Scotia. 1903 (dated 1902). (Colchester county). Scale: 1 mile to 1 inch. See part P.
- †344. Sketch plan of the Niagara peninsula, showing location and depth of wells. Scale: 6 miles to 1 inch. See part Q.
NOTE: Not issued separately.
- †345. Sketch plan of Essex county, showing location and depth of wells. Scale: 6 miles to 1 inch. See part Q.
NOTE: Not issued separately.
- †346. [Sketch-map and] section from Whitby, Ont., to Fredonia, N.Y. Horizontal scale: 7 miles to 1 inch; vertical scale: 1,100 feet to 1 inch. See part Q.
NOTE: Not issued separately.
- †347. Sketch map of southwestern Ontario. 1891. Scale: 15 miles to 1 inch. See part Q.
NOTE: Not issued separately.
- †348. [Sketch map and] section from Port Colborne to Kincardine. Scale: 6½ miles to 1 inch. See part Q.
NOTE: Not issued separately.
- †349. [Sketch map and] section from Whitby to Courtright. Horizontal scale: 7 miles to 1 inch; vertical scale: 1,100 feet to 1 inch. See part Q.
NOTE: Not issued separately.
- †352. (E) **Summary Report of the Geological Survey Department for the year**
†1027. (F) **1892.** Published in English and French, Ottawa, 1893. 8vo. pp., English 63, French 66. (Blue-book form.) By A. R. C. Selwyn.
Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
Notes, by the director, on the artesian well at Deloraine, and the Turtle Mountain coal-field, Manitoba; graptolitic shales at Quebec city, Que.; crystalline rocks of the Cobequid hills, Nova Scotia; and the Souris River coal-field, Saskatchewan.
Work in the area of the Shuswap sheet (maps Nos. 604 and 669), British Columbia. By J. McEvoy.
Explorations in the Rocky mountains between lats. 51° and 52°. By R. G. McConnell.
Work in the area of the Manitoulin Island sheet (map No. 605), district of Algoma, Ontario. By R. Bell.
Explorations in Charlevoix and Montmorency counties, and the vicinity of lake St. John, Quebec. By J. C. K. Laffamme.
Work in portions of the areas covered by maps Nos. 878, 1005, 1019, 1025, 1037, 1539, Halifax and Hants counties, Nova Scotia. By E. R. Faribault.
Work in portions of the area covered by maps Nos. 230, 826, 840, 841, Cumberland county, Nova Scotia. By H. Fletcher.
- †353. (E) **Summary Report of the Geological Survey Department for the year**
†1071. (F) **1893.** Published in English and French, Ottawa, 1894. 8vo. pp., English 65, French 68. (Blue-book form.) With map No. 361. By A. R. C. Selwyn.
Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
Letter to the director from J. B. Tyrrell regarding the exploration of the north shore of lake Athabaska and telegram announcing his arrival at West Selkirk, Manitoba.
Notes, by the director, on the artesian well at Deloraine, Manitoba, and the Geological Survey exhibit at Chicago.

¹ See foot-note on p. 32.

An exploration of the Portland canal, Observatory inlet, and the Nass river (see map No. 1247), British Columbia. By J. McEvoy.

Work in the area of sheet 129 (not published), north of sheet 126 (map No. 605), district of Algoma, Ontario, and notes on a visit to Michigan, U.S.A., *re* geological nomenclature. By R. Bell.

Work in portions of the areas covered by maps Nos. 382, 383, 390, 551, 565, 592, 607, 624, 634, 635, 985, 1019, 1025, 1036, 1043, 1539, and plans Nos. 622, 643, 645 to 648, 650, 773, 843, 867, 945, Halifax and Guysborough counties, Nova Scotia. By E. R. Faribault.

Work in portions of the area covered by maps Nos. 837, 838, 878, 879, 1133, Hants county, Nova Scotia. By H. Fletcher.

Botanical and zoological work in Vancouver island, British Columbia. By John Macoun.

354. (E) **Annual Report (new series), volume VI, 1892-93.** Published in English 1895, and French 1896. Ottawa. 8vo. pp., English x, 549, French x, 593. With maps Nos. 361, 362, and 12 statistical diagrams (9 folding). Map No. 1247 was issued separately. Contains the following reports (no French separates) and an index:
- †1100. (F)
355. (A) Summary report on the operations of the Geological Survey for the year 1892. Ottawa, 1893. pp. ii, 95. (Reprint from blue-book.) By A. R. C. Selwyn.
356. (AA) Summary report on the operations of the Geological Survey Department for the year 1893. Ottawa, 1894. pp. 98. With map No. 361. (Reprint from blue-book.) By A. R. C. Selwyn.
NOTE: The distinguishing letter of this part should be "AA" instead of "A" as printed.
357. (J) Preliminary report on the geology of a portion of central Ontario situated in the counties of Victoria, Peterborough, and Hastings, together with the results of an examination of certain ore deposits occurring in the region. Ottawa, 1894. pp. 15. (See map No. 708.) By F. D. Adams.
358. (Q) Preliminary report on geological investigations in south-western Nova Scotia. Ottawa, 1895. pp. 21. With map No. 362. By L. W. Bailey.
NOTE: See also report No. 628. For preliminary reports see Nos. 320 or 322 (part A, 1890), 321 or 323, 353 or 356.
359. (R) Chemical contributions to the geology of Canada, from the laboratory of the Survey. Ottawa, 1895. pp. 93. With table of contents. By G. C. Hoffmann.
360. (S) Division of mineral statistics and mines. Annual report for 1892. Ottawa, 1894. pp. 213. With 12 statistical diagrams (9 folding) and an index (in separate). By E. D. Ingall.
NOTE: For preliminary report on the field-work see No. 352 or 355.
- Accompanying Maps:*
1247. Route map of part of the Nass river, British Columbia. (Map 69A.) 1912. Scale: 8 miles to 1 inch.
NOTE: The above map, published separately in 1912, illustrates report by J. McEvoy in part AA.
- †361. Sketch map to illustrate exploration [in vicinity of Red lake, district of Algoma, Ontario] by D. B. Dowling. Scale: 40 miles to 1 inch.
See part AA.
NOTE: Not issued separately.
- †362. Geological sketch map of south western part of Nova Scotia by L. W. Bailey. 1894. Scale: 8 miles to 1 inch. See part Q.
- †552. (E) **Summary Report of the Geological Survey Department for the year 1894.** Published in English and French, Ottawa, 1895. 8vo. pp., English 126, French 140. (Blue-book form.) With map No. 554. By G. M. Dawson.
- †1151. (F) Contains, in addition to preliminary reports noted elsewhere under the final reports¹:

¹See foot-note on p. 32.

Report, by the director, on the boring for oil at Athabaska Landing, Alberta; on explorations, with J. McEvoy, in the area of the Shuswap sheet (maps Nos. 604 and 669); and observations on hydraulic mining in the Cariboo district, British Columbia.

Work in the area of the West Kootenay sheet (maps Nos. 791 and 792), British Columbia. By R. G. McConnell.

Survey and geological examination of lake Nipigon, Ontario. By W. McInnes.

Work in the area covered by sheet 128 (not published), west of sheet 129, and sheet 129 (not published), north of map No. 605, Algoma and Sudbury districts, Ontario. By R. Bell.

Surface geology of portions of New Brunswick, Nova Scotia, and Quebec. By R. Chalmers.

Work in portions of the areas covered by maps Nos. 201, 205, 207, 387, 388, 598, 609, 610, 633, 636, 637, 837 to 840, 878, 879, 1037, 1133, Nova Scotia. By H. Fletcher.

Work in portions of the area covered by maps Nos. 565, 592, 607, 611, 624, 633, 634, 635, 908, Halifax and Colchester counties, Nova Scotia. By E. R. Faribault.

581. (E) **Annual Report (new series), volume VII, 1894.** Published in English
 †1250. (F) 1896, and French 1897. Ottawa. 8vo. pp., English xvi, 1227, French xvi, 1316. With maps Nos. 554, 558, 559, 576, folding sheet of sections, 18 statistical diagrams, and 31 other illustrations. Accompanied by portfolio containing maps Nos. 556, 557, 561, 562, 563, 567, 571. Contains the following reports (no French separates) and an index:
553. (A) Summary Report on the operations of the Geological Survey for the year 1894. Ottawa, 1895. pp. 124. With map No. 554. (Reprint from blue-book.) By G. M. Dawson.
- †573. (B) Report on the area of the Kamloops map-sheet, British Columbia. Ottawa, 1895, pp. 431. (Separate published 1896, and so dated on cover.) With maps Nos. 556, 557, folding sheet of sections, 24 other illustrations, and appendices I to IV. By G. M. Dawson.
 NOTE: Maps not bound in with separate, but issued in an envelope to accompany it. For preliminary reports see Nos. 257 or 259, 291 or 293, 320 or 322 (part A, 1890). See also maps Nos. 604 and 669.
- †482. Appendix I. Petrographical characters of some rocks from the area of the Kamloops map-sheet, British Columbia. [Ottawa, 1896.] pp. 52. By W. F. Ferrier.
 Appendix II. Shuswap names of places within the area of the Kamloops map-sheet. (Extracted from a paper entitled: "Notes on the Shuswap people of British Columbia." Trans. Royal Soc. Can., vol. IX (1891) sec. II.) By G. M. Dawson.
 Appendix III. Notes on the upper and lower limits of growth of some trees and other plants, in different places within the area of the Kamloops map-sheet. [By G. M. Dawson.]
 Appendix IV. Comparative observations of temperatures at different altitudes in or near the region embraced by the Kamloops sheet, southern interior of British Columbia, during parts of the years 1888, 1889, and 1890. [By G. M. Dawson.]
574. (C) Report on an exploration of the Finlay and Omineca rivers. Ottawa, 1896. pp. 40. With map No. 567, and 2 other illustrations. By R. G. McConnell.
 NOTE: For preliminary report see No. 353 or 356.
578. (F) Report on the country in the vicinity of Red lake and part of the basin of Berens river, Keewatin. Ottawa, 1896. pp. 54. With map No. 576. By D. B. Dowling.
 NOTE: The region described now lies entirely in northwestern Ontario. For preliminary report see No. 353 or 356 (accompanied by sketch-map No. 361).
- †579. (J) Report on a portion of the province of Quebec comprised in the southwest sheet of the "Eastern Townships" map (Montreal sheet). With

- a chapter on the Laurentian, north of the St. Lawrence river, by F. D. Adams. (See No. 484.) Ottawa, 1896. pp. 157. With map No. 571 and appendix. By R. W. Ells.
- †483. Appendix. Preliminary lists of the organic remains occurring in the various geological formations comprised in the southwest quarter-sheet map of the Eastern Townships of the province of Quebec. pp. 45. By H. M. Ami.
NOTE: For preliminary reports see Nos. 291 or 293, 320 or 322 (part A, 1890), 321 or 323. Separate of the appendix bears no date or place of publication.
- †484. Laurentian area to the north and west of St. Jerome. South-west quarter-sheet map of the Eastern Townships, province of Quebec. pp. 20. By F. D. Adams.
NOTE: This is a reprint of the chapter on the Laurentian north of the St. Lawrence river included in No. 579. Separate bears no date or place of publication.
566. (M) Report on the surface geology of eastern New Brunswick, north-western Nova Scotia, and a portion of Prince Edward Island, to accompany $\frac{1}{4}$ sheet maps No. 2 S.E., No. 5 S.W., and No. 4 N.W. Ottawa, 1895. pp. 149. With maps Nos. 558, 559, and 5 other illustrations. Separate is accompanied by envelope containing maps Nos. 561, 562, 563. By R. Chalmers.
NOTE: Includes notes on the Magdalen islands, Quebec. For preliminary reports see Nos. 320 or 322 (part A, 1890), 321 or 323, 352 or 355, 353 or 356.
580. (R) Report of the section of chemistry and mineralogy. Ottawa, 1896. pp. 68. With table of contents. By G. C. Hoffmann.
572. (S) Division of mineral statistics and mines. Annual report for 1893 & 1894. Ottawa, 1895. pp. 187. With 18 statistical diagrams (1 folding). By E. D. Ingall.
NOTE: For report on field-work during 1893 see No. 353 or 356.
- Accompanying Maps:*
- †554. Sketch map to illustrate exploration by A. P. Low. (Labrador peninsula.) 1895. Scale: 150 miles to 1 inch. See part A.
- †556. Map-sheet No. 12. (Kamloops sheet). British Columbia. 1895. Geologically coloured. Scale: 4 miles to 1 inch. See part B.
- †557. Map-sheet No. 12. (Kamloops sheet). British Columbia. 1895. Topography, economic minerals, & glacial striæ. Scale: 4 miles to 1 inch. See part B.
567. Map of the Finlay and Omineca rivers, British Columbia. 1895. Scale: 8 miles to 1 inch. See part C.
576. Vicinity of Red lake, and part of Berens river. District of Keewatin and province of Ontario. [Now all in district of Algoma, Ont.] 1896. Scale: 8 miles to 1 inch. See also sketch-map No. 361. See part F.
- †571. Geological map of the Eastern Townships. S.W. quarter-sheet (Montreal sheet). Province of Quebec. 1896. Scale: 4 miles to 1 inch. See part J.
NOTE: Title on map reads: "Province of Quebec. Montreal sheet. (Eastern Townships map.)" Important corrections made on transfer stones before publication. See note under No. 251.
558. Sketch map showing area occupied by Pleistocene glaciers at their maximum extension. 1895. (Quebec, New Brunswick, Prince Edward Island, and Nova Scotia.) Scale: 40 miles to 1 inch. See part M.
559. Sketch map showing striation from local glaciers and floating ice during the closing stage of the Pleistocene. 1895. (Quebec, New Brunswick, Prince Edward Island, and Nova Scotia.) Scale: 40 miles to 1 inch. See part M.
- †561. Map-sheet No. 4 N.W. Springhill sheet [also called Cumberland coal-field sheet]. Provinces of Nova Scotia and New Brunswick. 1895. Surface geology. (Comprises parts of Cumberland county, N.S., Westmorland and Albert counties, N.B., with a small part of Prince Edward Island.) Scale: 4 miles to 1 inch. See part M.

NOTE: Copies issued in portfolio accompanying Annual Report, vol. VII, and in envelope accompanying part M, have "(Cumberland Coal-field sheet)" printed on back of folded map.

562. Map-sheet No. 2 S. E. Richibucto sheet. Province of New Brunswick. 1895. Surface geology. (Comprises parts of Kent, Westmorland, Queens, Sunbury, York, and Northumberland counties.) Scale: 4 miles to 1 inch. See part M.
563. Map-sheet No. 5 S.W. Cape Traverse sheet [also called Buctouche sheet]. Part of New Brunswick and Prince Edward Island. 1895. Surface geology. (Comprises parts of Kent county, N.B., and Prince and Queens counties, P.E.I.) Scale: 4 miles to 1 inch. See part M.
NOTE: Copies issued in portfolio accompanying Annual Report, vol. VII, and in envelope accompanying part M, have "(Buctouche sheet)" printed on back of folded map.
- †582. (E) ; Summary Report of the Geological Survey Department for the year
†1323. (F) 1895. Published in English and French, Ottawa, 1896. 8vo. pp., English ii, 154, French 175. (Blue-book form.) By G. M. Dawson.
Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
- Report, by the director, on the boring for oil at Athabaska Landing, Alberta; notes on gold-washing on the North Saskatchewan river; on some gold mines on Lake of the Woods, Ontario; and the general metalliferous character of the Huronian rocks.
- Work in the area of the West Kootenay sheet (maps Nos. 791 and 792; see also No. 620), British Columbia. By R. G. McConnell.
- Work in the area of the Shuswap sheet (maps Nos. 604 and 669), British Columbia. By J. McEvoy.
- Work in portions of the area included in the Manitou Lake sheet (map No. 720) and Rainy Lake sheet (map No. 283), Ontario. By W. McInnes.
- Work in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. By N. J. Giroux.
- Note on the salt springs at Salina, Kings county, New Brunswick. By R. Chalmers. (In his summary report.)
- Notes on some Silurian rocks previously supposed to be of Cambro-Silurian age, and on various minerals, Antigonish and Pictou counties, Nova Scotia. By H. Fletcher.
- Work in the area covered by maps Nos. 635, 700, 807, 908, 1005, 1019, 1025, and plans Nos. 642, 666, 701, 709, 721, 740, 765, 768, Halifax and Hants counties, Nova Scotia. By E. R. Faribault.
- Notes on the discovery of cobalt minerals at the Dominion iron mine, Madoc township, Hastings county, Ontario. By W. F. Ferrier.
- Botanical and zoological observations in southern Saskatchewan and Alberta south of lat. 50° 30', and between longs. 105° 30' and 114°. By John Macoun.
- Entomological collections. By J. Fletcher.
617. (E) Annual Report (new series), volume VIII, 1895. Published in English
†1340. (F) and French, Ottawa, 1897. 8vo. pp., English xii, 1029, French xii, 1126. With maps Nos. 590, 597, 17 statistical diagrams, and 36 other illustrations. Accompanied by portfolio containing maps Nos. 585 to 588.
NOTE: A leaf to be substituted for the first leaf of table of contents, and an index of part A for insertion before the general index at end of volume, were issued in a separate envelope.
Contains the following reports (no French separates), with index to part A and index to volume:
583. (A) Summary Report on the operations of the Geological Survey for the year 1895. Ottawa, 1896. pp. 154. (Reprint from blue-book.) By G. M. Dawson.
NOTE: Publication number erroneously printed "582" on title-page.
- †601. (D) Report on the country between Athabaska lake and Churchill river, with notes on two routes travelled between the Churchill and Saskat-

¹ See foot-note on p. 32.

- chewan rivers. Ottawa, 1896. pp. 120. With map No. 597 and 3 other illustrations. By J. B. Tyrrell, assisted by D. B. Dowling.
NOTE: For preliminary reports see Nos. 352 or 355, 353 or 356.
591. (J) Report on the geology of a portion of the Laurentian area lying to the north of the island of Montreal. Ottawa, 1896. pp. 184. With map No. 590, plan, 29 other illustrations, and appendices I and II. By F. D. Adams.
Appendix I. Literature relating to the anorthosites of Canada. By F. D. Adams.
Appendix II. The smelting of titaniferous iron ores. (Reprinted from "The Iron Age" for February 6th and 20th, 1896, slightly abridged.) By A. J. Rossi.
NOTE: For summaries of work in this area by H. G. Vennor, L. R. Ord, and R. G. McConnell, see No. 147 (director's summary); and by R. W. Eells, No. 321 or 323; also summaries and preliminary reports by F. D. Adams in Nos. 209 or 211; 256 and 257 or 259; 291 or 293; 321 or 323.
- †584. (L) Report on explorations in the Labrador peninsula, along the Eastmain, Koksoak, Hamilton, Manikuagan, and portions of other rivers in 1892-93-94-95. Ottawa, 1896. pp. 387. With maps Nos. 585 to 588, 4 other illustrations, and appendices I to VII. By A. P. Low.
NOTE: Maps are not bound in with the separate, but were issued in separate envelope to accompany it. For preliminary reports see Nos. 352 or 355, 552 or 553, 582 or 583.
Appendix I. List of *Mammalia* of the Labrador peninsula, with short notes on their distribution, etc. By A. P. Low.
Appendix II. List of birds of the interior of the Labrador peninsula. [By A. P. Low.]
Appendix III. List of the principal food fishes of the Labrador peninsula, with short notes on their distribution. [By A. P. Low.]
Appendix IV. List of insects collected in the interior of the Labrador peninsula. 1894. Determined by J. Fletcher.
- †485. Appendix V. Notes on the microscopic structure of some rocks from the Labrador peninsula. pp. 17. By W. F. Ferrier.
NOTE: Separate bears no date or place of publication.
- †486. Appendix VI. List of the plants known to occur on the coast and in the interior of the Labrador peninsula. pp. 14. Compiled by J. M. Macoun.
NOTE: Separate bears no date or place of publication.
Appendix VII. Meteorological observations in the Labrador peninsula, 1893-1894 and 1895. By D. I. V. Eaton.
616. (R) Report of the section of chemistry and mineralogy. Ottawa, 1897. pp. 59. With table of contents. By G. C. Hoffmann.
602. (S) Section of mineral statistics and mines. Annual report for 1895. Ottawa, 1897 (dated 1896). (Correct date is on cover of separate.) pp. ii, 103. With 17 statistical diagrams and table of contents (in separate). By E. D. Ingall.
- Accompanying Maps:*
- †597. Map of the country between lake Athabaska and Churchill river. 1897. Scale: 25 miles to 1 inch. See part D.
590. Geological map of parts of Joliette, Argenteuil, Terrebonne, and Montcalm counties. Province of Quebec. 1897. Scale: 4 miles to 1 inch. See part J.
Map of Labrador peninsula. 1897 (dated 1896). Scale: 25 miles to 1 inch. In four sheets, as follows: See part L.
- †585. Southwest sheet. [Lat. 47° 30' to 55°; long. 68° to 81°.]
†586. Southeast sheet. [Lat. 48° to 55°; long. 55° to 68°.]
†587. Northwest sheet. [Lat. 54° to 61° 30'; long. 68° to 83°.]
†588. Northeast sheet. [Lat. 54° to 61° 30'; long. 53° to 68°.]
- †613. (E) **Summary Report of the Geological Survey Department for the year 1896.** Published in English and French, Ottawa, 1897. 8vo. pp., English ii, 144, French ii, 159. (Blue-book form.) By G. M. Dawson.
†1334. (F) Contains, in addition to preliminary reports noted elsewhere under the final reports:

¹See foot-note on p. 32.

Report, by the director, on the boring for oil at Athabaska Landing, with notes by R. G. McConnell on a new site for boring operations at Victoria, Alberta.

Work in the area of the West Kootenay sheet (maps Nos. 791 and 792; see also No. 620), British Columbia. By R. G. McConnell.

Work in the area of the Shuswap sheet (maps Nos. 604 and 669), and the vicinity of Rossland, B.C. By J. McEvoy.

Work in the areas of the Seine River and Manitou Lake sheets (maps Nos. 560 and 720); notes on gold locations in the vicinity of Bad Vermilion and Shoal lakes (see map No. 283); the Regina, Sultana, and Scramble mines, Lake of the Woods; the Lake Minnitaki gold region; and the Empress gold mine, near Jackfish, lake Superior, Ontario. By W. McInnes.

Work in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. By N. J. Giroux (edited by R. W. Ellis).

Notes on the copper mine at George river, Cape Breton county, infusorial earth at St. Anns, Victoria county, and Castlereagh, Cumberland county; and graphitic shales near Christmas island, Cape Breton county, Nova Scotia. By H. Fletcher.

Work in the areas covered by maps Nos. 1019 and 1025, map-sheet No. 88 (not yet published), and plans Nos. 721, 740, and 768, Halifax and Hants counties, Nova Scotia. By E. R. Faribault.

Notes on the discovery of corundum in Hastings county, Ontario. By W. F. Ferrier.

The natural history of portions of southern Manitoba and Saskatchewan. By John Macoun.

Entomological collections. By J. Fletcher.

658. (E) **Annual Report (new series), volume IX, 1896.** Published in English
 †658a. (F) 1898, and French 1899, Ottawa. 8vo. pp., English xii, 828, French xii, 901. With maps Nos. 570, 603, 619, 621, 641, folding table, 16 statistical diagrams, and 30 other illustrations. Maps Nos. 604, 605, 620, 669, were issued separately.
614. (A) Contains the following reports (no French separates), and an index:
 (A) Summary Report on the operations of the Geological Survey for the year 1896. Ottawa, 1897, pp. 144. (Reprint from blue-book.) By G. M. Dawson.
618. (F) Report on the Dubawnt, Kazan, and Ferguson rivers, and the north-west coast of Hudson bay; and on two overland routes from Hudson bay to lake Winnipeg. Ottawa, 1897. pp. 218. With maps Nos. 603, 619, 621, 16 other illustrations, and appendices I, II, and III. By J. B. Tyrrell.
- Appendix I. Chippewyan names of places in the country here reported on. [By J. B. Tyrrell.]
- Appendix II. Vocabulary of words used by the tribe of Inland Eskimos inhabiting the banks of Kazan and Ferguson rivers. [By J. W. Tyrrell.]
- Appendix III. Plants (exclusive of *Algae* and *Fungi*) collected by J. W. Tyrrell. (From along the line of route between lake Athabaska and the west coast of Hudson bay, 1893; and at Ashe inlet, north shore of Hudson strait, 1885. Also from Fort Churchill, collected by Miss M. Lofthouse.) Determined by John Macoun.
- NOTE: For preliminary report see No. 552 or 553.
627. (I) Report on the geology of the French River sheet, Ontario. Ottawa, 1897 (dated 1898). pp. 29. With map No. 570. By R. Bell.
- NOTE: For preliminary reports see Nos. 321 or 323, 352 or 355.
657. (L) Report on a traverse of the northern part of the Labrador peninsula from Richmond gulf to Ungava bay. Ottawa, 1898. pp. 43. With 4 illustrations. (See map No. 587.) By A. P. Low.
- NOTE: For preliminary report see No. 613 or 614.
628. (M) Report on the geology of south-west Nova Scotia, embracing the counties of Queens, Shelburne, Yarmouth, Digby, and part of Annapolis. Ottawa, 1898. pp. 154. With map No. 641, 10 other illustrations, and appendix A. By L. W. Bailey.

Appendix A. List of glacial striæ in south-western Nova Scotia. [By L. W. Bailey.]

NOTE: See also report No. 358. For preliminary reports see Nos. 320 or 322 (part A, 1890), 321 or 323, 353 or 356, 582 or 583, 613 or 614.

651. (R) Report of the section of chemistry and mineralogy. Ottawa, 1898. pp. 53. With table of contents. By G. C. Hoffmann.
625. (S) Section of mineral statistics and mines. Annual report for 1896. Ottawa, 1897. pp. 172, and errata slip. With folding table (mineral production), 16 statistical diagrams, and an index (in separate only). By E. D. Ingall.
NOTE: For report on field-work see No. 613 or 614.
- †620. *Accompanying Maps:*
Part of Trail Creek mining division, West Kootenay district, British Columbia. Preliminary edition. 1897. Scale: 1 mile to 1 inch.
NOTE: The above map was published separately in 1897. For field-work see summary reports by R. G. McConnell in No. 582 or 583, and 613 or 614.
604. Map-sheet No. 11. Shuswap sheet. British Columbia. 1899 (dated 1898). Geologically coloured. Scale: 4 miles to 1 inch. See part A.
669. Map-sheet No. 11. Shuswap sheet. British Columbia. 1899. Economic minerals and glacial striæ. Scale: 4 miles to 1 inch. See part A.
NOTE: The above two maps (Nos. 604 and 669) were published separately, with no-accompanying report, but extensive explanatory notes appear on No. 604. For field-work by G. M. Dawson and J. McEvoy see summary reports in Nos. 320 or 322 (part A, 1890), 321 or 323, 352 or 355, 552 or 553, 582 or 583, 613 or 614. See also reports Nos. 1218 [xi], 1218a, and Memoir 68 (No. 1463), by R. A. Daly.
603. Map of Dubawnt and Kazan rivers and northwest coast of Hudson bay. 1897. Scale: 25 miles to 1 inch. See part F.
619. Map of sledge routes 1893 & 1894, Fort Churchill to Nelson river. 1897. Scale: 25 miles to 1 inch. See part F.
621. Diagram showing three positions successively occupied by the centre of the Keewatin glacier. 1897. Scale: 100 miles to 1 inch. See part F.
NOTE: Latitude figures should read "57," "61," "65," instead of "56," "60," "64," on left, and "56," "64," "64," on right of map. Longitude on south boundary of the map, printed "94," should read "96."
- †570. Map-sheet No. 125. (French River sheet). Province of Ontario, Nipissing, Algoma, and Parry Sound districts. 1897. Scale: 4 miles to 1 inch. See part I.
605. Map-sheet No. 126. (Manitoulin Island sheet). Province of Ontario, Algoma district. 1907. Scale: 4 miles to 1 inch.
NOTE: This map, published separately in 1907, joins map No. 570 on the west. The geology of the area is described by Dr. Bell in Reports of Progress for 1863-66 and 1866-69. See also Summary Report, 1892, for surveys in the area. No other report on this area by Dr. Bell has been published.
- †641. Map of the western portion of Nova Scotia. 1898. (Annapolis, Digby, Yarmouth, Shelburne, Queens, and part of Lunenburg counties.) Scale: 8 miles to 1 inch. See part M.
- †632. **Summary Report of the Geological Survey Department for the year 1897.** Published in English and French (?), Ottawa, 1898. 8vo. pp., English ii, 156. (Blue-book form.) With map No. 639. By G. M. Dawson.
Contains, in addition to preliminary reports noted elsewhere under the final reports¹:

¹ See foot-note on p. 32.

Notes, by the director, on placer gold deposits of the Yukon Territory; mineral deposits in the vicinity of Kamloops, British Columbia; experimental borings at Pelican rapids and Victoria, Alberta.

Work in the area of the West Kootenay sheet (maps Nos. 791 and 792), British Columbia. By R. G. McConnell.

Work in the area of the Manitou Lake sheet (map No. 720) and Ignace sheet (map No. 663), Ontario; and on Lake of the Woods, for the revised edition of map No. 227. By W. McInnes.

Observations on the occurrence of corundum in Hastings, Renfrew, and Peterborough counties, Ontario. With map No. 639. By A. E. Barlow.

Work in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. By R. W. Ells.

Geological investigations in portions of Cumberland, Pictou, Colchester, Antigonish, and Cape Breton counties, Nova Scotia, including the Springhill (see map No. 812) and Sydney coal-fields; with notes on I. C. White's examination of the supposed oil-field in the vicinity of lake Ainslie, Inverness county, Nova Scotia. (See also map No. 826.) By H. Fletcher.

Work in the areas covered by plans Nos. 622, 643, 645 to 650, 656, 832, 843, and maps Nos. 381, 383, 384, 390, 550, 592, 607, 634, Guysborough and Halifax counties, Nova Scotia. By E. R. Faribault.

Notes on investigations of corundum and nepheline-syenites in Carlow and Dungannon townships, Hastings county, and Raglan township, Renfrew county; and of corundum in Methuen township, Peterborough county, Ontario. By W. F. Ferrier.

Notes on work of H. M. Ami in Nova Scotia, summarized by J. F. Whiteaves.

Field-work of L. M. Lambe in vertebrate palæontology along the Red Deer river, Alberta, summarized by J. F. Whiteaves.

Botanical and zoological observations in southern Alberta. By John Macoun.

679. (E) **Annual Report (new series), volume X, 1897.** Published in English 1899, and French 1901, Ottawa. 8vo. pp., English xiv, 1068, French xii, 1147. With maps Nos. 639, 667, 668, 675, 2 folding sheets of tables, 16 statistical diagrams, and 34 other illustrations. Accompanied by portfolio containing maps Nos. 560, 589, 599, 606. Map No. 720 was issued separately.

Contains the following reports (no French separates) and an index:

644. (A) Summary Report on the operations of the Geological Survey for the year 1897. Ottawa, 1898. pp. 156. With map No. 639. (Reprint from blue-book.) By G. M. Dawson.

678. (H) Report on the geology of the area covered by the Seine River and Lake Shebandowan map-sheets, comprising portions of Rainy River and Thunder Bay districts, Ontario. Ottawa, 1899. pp. 65. With maps Nos. 560, 589, and 3 other illustrations. By W. McInnes.

NOTE: Maps not bound in with separate, but issued in an envelope with it. For preliminary reports by W. H. C. Smith and W. McInnes see Nos. 320 or 322 (part A, 1890), 321 or 323, 352 or 355, 353 or 356, 582 or 583, 613 or 614.

†672. (I) Report on the geology and natural resources of the area included by the Nipissing and Timiskaming map-sheets, comprising portions of the district of Nipissing, Ontario, and of the county of Pontiac, Quebec. Ottawa, 1899. pp. 302. With maps Nos. 599, 606, folding table of rock classification, 17 other illustrations, and appendices I and II. By A. E. Barlow.

Appendix I. List of elevations. [By A. E. Barlow.]

Appendix II. On some Cambro-Silurian and Silurian fossils from lake Timiskaming, lake Nipissing, and Mattawa outliers. By H. M. Ami.

NOTE: Maps are not bound in with the separate, but were issued in an envelope to accompany it. A second edition of the report was published in 1908 (see No. 962) with maps Nos. 599 (2nd

- edition), 606 (2nd edition), and 944 (preliminary edition). For preliminary reports see Nos. 256 and 257, or 259; 352 or 355; 353 or 356; 552 or 553; 582 or 583.
670. (J) Report on the surface geology and auriferous deposits of south-eastern Quebec. Ottawa, 1899 (dated 1898). pp. 160. With map No. 667, 8 other illustrations, and appendices I, II, and III. By R. Chalmers. Appendix I. Statistics of gold production from 1868 to 1892 in the Chaudière gold district, Beauce county, Quebec. Compiled by E. D. Ingall. Appendix II. Levels of gold workings, Gilbert river, Chaudière district, Que. Compiled by E. D. Ingall. Appendix III. Notes on the chainage and levels of the Gilbert river, St. François, Beauce county, Quebec. By A. Lockwood. NOTE: For preliminary reports see Nos. 582 or 583, 613 or 614, 632 or 644.
661. (M) The mineral resources of the province of New Brunswick. Ottawa, 1899 (dated 1898). (Correct date is on cover of separate.) pp. 129, and errata slip. With map No. 675 and 6 other illustrations. By L. W. Bailey. NOTE: For preliminary reports see Nos. 632 or 644, 673 or 674. See also later report by R. W. Ells (No. 983).
662. (S) Section of mineral statistics and mines. Annual report for 1897. Ottawa, 1899 (dated 1898). (Correct date is on cover of separate.) pp. 232. With map No. 668, folding sheet (mineral production), and 16 statistical diagrams. By E. D. Ingall. NOTE: Contains special report on the graphite deposits of Quebec, with map No. 668, by A. A. Cole; and an annotated table of analyses of the iron ores of Nova Scotia.
- Accompanying Maps:*
720. Map-sheet No. 4. (Manitou Lake sheet). Province of Ontario, district of Rainy River. 1903 (dated 1902). Geology. Scale: 4 miles to 1 inch. See part A. NOTE: This map, published separately, illustrates summary report by W. McInnes in part A, also those in Nos. 582 or 583, and 613 or 614. See also notes of W. H. C. Smith in No. 321 or 323. On east side of map, lat. "45° 45'" should read "49° 45'".
639. Plan showing corundum belt in Hastings and Renfrew counties, Ont. 1898. Scale: 5 miles to 1 inch. See part A.
560. Map-sheet No. 6. (Seine River sheet). Province of Ontario, Thunder Bay and Rainy River districts. 1897. Scale: 4 miles to 1 inch. See part H. NOTE: A limited preliminary edition was published in 1895. See Summary Report (blue-book), 1895, p. 4.
- †589. Map-sheet No. 9. (Lake Shebandowan sheet). Province of Ontario, Thunder Bay district. 1896. Scale: 4 miles to 1 inch. See part H.
606. Map-sheet No. 131. (Lake Nipissing sheet). Provinces of Ontario and Quebec, Nipissing district, Ont., and Pontiac county, Que. 1897. Scale: 4 miles to 1 inch. See part I. NOTE: A revised edition was published in 1908.
599. Map-sheet No. 138. (Lake Timiskaming sheet.) Provinces of Ontario and Quebec, Nipissing district, Ont., and Pontiac county, Que. 1897. Scale: 4 miles to 1 inch. See part I. NOTE: A revised edition was published in 1908.
667. Gold areas and glaciation of southeastern Quebec. 1899. Scale: 8 miles to 1 inch. See part J.
- †675. Map showing principal mineral occurrences in New Brunswick. 1899. Scale: 10 miles to 1 inch. See part M. NOTE: Positions of the quarter-sheet geological maps of New Brunswick are also shown on this map. See also map No. 969.
668. Map of the graphite district, Labelle county, Quebec. 1899. Scale: 40 chains to 1 inch. See part S.

- †673. (E) **Summary Report of the Geological Survey Department for the year 1898.** Published in English and French. Ottawa, 1899. 8vo. pp., English ii, 208, French iv, 232. (Blue-book form.) By G. M. Dawson. Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
- Notes, by the director, on feldspar, molybdenite, etc.; occurrences and working of placer gold in Alberta and Saskatchewan; developments in the Crownest Pass coal-field, British Columbia; and experimental borings at Pelican rapids and Victoria, Alberta.
- Explorations in the southwestern portion of the Yukon Territory and adjacent portion of British Columbia. By J. B. Tyrrell.
- Explorations in the southwestern portion of the Yukon Territory and adjacent portion of British Columbia. By R. G. McConnell.
- Preliminary note on the gold deposits and gold mining in the Klondike region, Yukon district. By R. G. McConnell and J. B. Tyrrell.
- Work in the area of the West Kootenay sheet (maps Nos. 791 and 792), British Columbia. By R. W. Brock.
- Work in the area of the Ignace sheet (map No. 663), Ontario, and notes on the geology of part of lake Minnitaki. By W. McInnes.
- Survey and geological examination of lake Nipigon, Ontario. By D. B. Dowling.
- Geology of the Michipicoten mining division, lake Superior, Ontario. By R. Bell.
- Work in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. By R. W. Ells.
- Work in the Springhill coal-field and adjacent region, and notes on various mineral occurrences, Cumberland, Colchester, Hants, Pictou, Richmond, Inverness, and Cape Breton counties, Nova Scotia. (See maps Nos. 192, 198, 200, 230, 654, 793, 794, 812, 838 to 841, 1037.) By H. Fletcher.
- Work in the area covered by maps Nos. 565, 700, 807, 908, 1005, 1019, 1025, and plans Nos. 666, 721, 740, 765, 773, Halifax and Hants counties, Nova Scotia. By E. R. Faribault.
- Notes on quarries, lime kilns, and cement works in western Ontario. By C. W. Willimott.
- Geological and palæontological investigations in the Duck islands and portions of Grand Manitoulin island, lake Huron, Ontario, and in the vicinity of Minas Basin, Kings, Cumberland, and Colchester counties, and at McAra brook, Antigonish county, Nova Scotia. By H. M. Ami.
- Field-work in vertebrate palæontology along the Red Deer river, Alberta, and note on mammoth remains at Muirkirk, Elgin county, Ontario. By L. M. Lambe.
- Work, chiefly botanical, in Cape Breton island, Nova Scotia. By John Macoun.
- Entomological collections. By J. Fletcher.
- Notes on determinations of various positions in Ontario, and on some magnetic declinations. By J. White.
715. (E) **Annual Report (new series), volume XI, 1898.** Published in English and French 1901, and French 1902 (dated 1901). Ottawa. 8vo. pp., English xii, 878, French xiv, 956. With maps Nos. 681, 682, 683, 699, folding sheet, 7 statistical diagrams, and 37 other illustrations. Accompanied by portfolio containing maps Nos. 664, 665, and 676. Contains the following reports (no French separates) and an index:
674. (A) **Summary Report on the operations of the Geological Survey for the year 1898.** Ottawa, 1899. pp. 208. (Reprint from blue-book.) By G. M. Dawson.
- †703. (D) **Report on the geology and natural resources of the country traversed by the Yellow Head Pass route from Edmonton to Tête-Jaune Cache, comprising portions of Alberta and British Columbia.** Ottawa, 1900. pp. 44. With map No. 676 and 6 other illustrations. By J. McEvoy.
- NOTE: For preliminary report see No. 673 or 674.

¹ See foot-note on p. 32.

704. (F) Report on the geology of the west shore and islands of lake Winnipeg. Ottawa, 1900. pp. 100. With map No. 664 and 12 other illustrations. By D. B. Dowling.
NOTE: Separate is bound with No. 705. For preliminary reports see Nos. 320 or 322 (part A, 1890), 321 or 323.
705. (G) Report on the east shore of lake Winnipeg and adjacent parts of Manitoba and Keewatin. Ottawa, 1900. pp. 98. With map No. 664, 3 other illustrations, and appendices I and II. From notes and surveys of J. B. Tyrrell. Compiled by D. B. Dowling.
Appendix I. List of glacial striæ. [By J. B. Tyrrell.]
Appendix II. Notes on early travellers on lake Winnipeg whose records or reports contain descriptions referring to the lake. [By J. B. Tyrrell.]
NOTE: For preliminary reports see Nos. 154 (Summary Report 1882. Cochrane), 320 or 322 (part A, 1890), 321 or 323, 582 or 583, 632 or 644. Nos. 704 and 705 are bound together, with cover-title: "Reports on the geology of the shores and islands of lake Winnipeg with adjacent parts of Manitoba and Keewatin." Accompanied by portfolio containing map No. 664.
707. (J) Report on the geology of the Three Rivers map-sheet, or northwestern sheet of the 'Eastern Townships' map, Quebec. Ottawa. 1900. pp. 70. With map No. 665, 5 other illustrations, and appendix I. By R. W. Ells.
Appendix I. Notes on the Pleistocene marine shore-lines and landslips of the north side of the St. Lawrence valley. By R. Chalmers.
NOTE: For summaries and preliminary reports of work (in the area described in report No. 707) by W. McQuat, A. Webster, L. R. Ord, R. G. McConnell, F. D. Adams, A. P. Low, N. J. Giroux, R. Chalmers, and R. W. Ells, see Nos. 67; 147; 256 and 257, or 259; 291 or 293; 321 or 323; 352 or 355; 353 or 356; 673 or 674.
680. (L) Report on an exploration of part of the south shore of Hudson strait and of Ungava bay. Ottawa, 1901 (dated 1899). (Correct date is on cover of separate). pp. 47. With map No. 699, and 7 other illustrations. By A. P. Low.
NOTE: Separate is bound with No. 713. For preliminary report see No. 632 or 644.
713. (M) Report of an exploration on the northern side of Hudson strait. Ottawa, 1901. pp. 38. With map No. 699, 4 other illustrations, and appendices I, II, and III. By R. Bell.
NOTE: Separate is bound with No. 680. For preliminary report see No. 632 or 644.
Appendix I. Astronomical observations. Latitudes in Baffin Land from observations by Dr. Robert Bell, in 1897, used in the compilation of the accompanying map of Hudson strait. With longitudes of same.
Appendix II. List of plants collected in Hudson strait by Dr. Robert Bell in 1897. The phanerogams determined by J. M. Macoun, the cryptogams by John Macoun.
Appendix III. List of *Lepidoptera* taken in Baffin Land by Dr. Robert Bell in 1897. Determined by J. Fletcher.
NOTE: Nos. 680 and 713 are bound together with cover-title: "Reports on explorations of the coasts of Hudson strait and Ungava bay." With Map No. 699.
695. (R) Report of the section of chemistry and mineralogy. Ottawa, 1900. pp. 55. With table of contents. By G. C. Hoffmann.
698. (S) Section of mineral statistics and mines. Annual report for 1898. Ottawa, 1900. pp. ii, 196, and page of errata. With maps Nos. 681, 682, 683, folding sheet (mineral production), and 7 statistical diagrams. By E. D. Ingall.
NOTE: Includes special articles on the coal-fields of Canada, natural gas, and petroleum, by T. C. Denis.

Accompanying Maps:

- †676. Map showing Yellow Head Pass route from Edmonton to Tête-Jaune Cache. 1900. Scale: 8 miles to 1 inch. See part D.

664. Geological map of lake Winnipeg and vicinity. 1899. Scale: 8 miles to 1 inch. See parts F and G.
NOTE: This map was reprinted in 1913.
- †665. Geological map of the Eastern Townships. N.W. quarter-sheet (Three Rivers sheet). Province of Quebec. 1899. Scale: 4 miles to 1 inch. See part J.
NOTE: Title on map reads: "Province of Quebec. Three Rivers sheet. (Eastern Townships map)". Plate corrected to date.
699. Map of the coasts of Hudson strait and Ungava bay. Districts of Franklin and Ungava. 1900. Scale: 25 miles to 1 inch. See parts L and M.
NOTE: Not issued separately.
- †681. Sketch map of oil areas in Lambton county, Ont. 1900. Scale: 4 miles to 1 inch. See part S.
NOTE: Not issued separately.
- †682. Sketch map of gas field in Essex county, Ont. 1900. Scale: 4 miles to 1 inch. See part S.
NOTE: Not issued separately.
- †683. Sketch map of gas field in Welland county, Ont. 1900. Scale: 4 miles to 1 inch. See part S.
NOTE: Not issued separately.
- †690. (E) **Summary Report of the Geological Survey Department for the year 1899.** Published in English and French, Ottawa, 1900. 8vo. pp., English ii, 224, and erratum slip, French 257. (Blue-book form.) With map No. 688, folding sheet (borings), and 2 other illustrations. By G. M. Dawson.
†1546. (F) Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
Notes, by the director, on the examination of Animikie-Keewatin-Laurentian contacts in the vicinity of Thunder bay, Ontario, and on iron ores of western Ontario; experimental borings at Athabaska Landing, Pelican rapids, and Victoria, Alberta (with folding table showing equivalency of Cretaceous rocks encountered.)
Work in the area of the West Kootenay sheet (maps Nos. 791 and 792), British Columbia. By R. W. Brock.
A preliminary geological and topographical examination of the southwestern part of the East Kootenay district, British Columbia. With map No. 771. By J. McEvoy.
An exploration of Great Slave lake, North West Territories. By R. Bell.
Work in the area of the Ignace sheet (map No. 663), Ontario. By W. McInnes.
Work in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. By R. W. Ells.
Notes on economic minerals of New Brunswick collected for the Paris Exposition of 1900, and geological investigations in Carleton, York, and St. John counties. By L. W. Bailey.
Work in the Springhill coal-field (see map No. 812) and portions of Colchester and Cape Breton counties (see maps Nos. 838 and 839), Nova Scotia. By H. Fletcher.
Work in the area covered by maps Nos. 592, 1005, 1025, 1037, and plans Nos. 647, 701, 709, 768, Hants and Halifax counties, Nova Scotia. By E. R. Faribault.
Work, chiefly palaeontological, of H. M. Ami, in Nova Scotia and New Brunswick, including notes by R. Kidston, D. White, T. R. Jones, H. Woodward, and A. S. Woodward on fossils submitted to them; summarized by J. F. Whiteaves.
Notes on some plants from Dawson, Yukon Territory, and the vicinity of Atlin lake, British Columbia; the fauna and flora of Sable island, Nova Scotia; and notes on the St. John River valley, New Brunswick. By John Macoun.
NOTE: The report by R. G. McConnell contained in the above

¹ See foot-note on p. 32.

Summary Report, was published in advance, as a separate, in practically identical form. See No. 687.

687. Preliminary report on the Klondike gold fields, Yukon district, Canada. Ottawa, 1900. pp. 44, and erratum slip. With map No. 688 and 6 other illustrations. By R. G. McConnell. See also No. 673 or 674.
782. (E) **Annual Report (new series), volume XII, 1899.** Published in English 1902, and French 1908 (dated 1902). Ottawa. 8vo. pp., English xiv, 980, French xiv, 1067. With plans and sections Nos. 726 to 738, 2 folding sheets (one omitted in English edition), 7 statistical diagrams, and 53 other illustrations. Accompanied by portfolio containing maps Nos. 626, 688, 696, 697, 714, 742, 750, 777. Map No. 663 was issued separately.
829. (F) NOTE: The publication of the Annual Reports in French ceased with this volume. See notice slip in French edition. That edition erroneously bears the number "782" on title-page. Some copies of the English edition are defective, pp. 11-16 of part A being omitted.
- Contains the following reports (no French separates) and an index:
691. (A) Summary Report on the operations of the Geological Survey for the year 1899. Ottawa, 1900. pp. 224, and erratum slip (in separate). With map No. 688, folding sheet (in separate only), and 2 other illustrations. (Reprint from blue-book.) See also map No. 771. By G. M. Dawson.
- NOTE: The folding sheet (table showing equivalency of Cretaceous rocks in borings in northern Alberta) is omitted by mistake from the bound volume. It is included in No. 690.
743. (B) Report on the Atlin mining district, British Columbia. Ottawa, 1901. pp. 48. With map No. 742 and 7 other illustrations. By J. C. Gwillim.
- NOTE: For preliminary reports see Nos. 690 or 691, 716 or 717.
725. (C) Report on the topography and geology of Great Bear lake, and of a chain of lakes and streams thence to Great Slave lake. Ottawa, 1901. pp. 36. With appendix. By J. Macintosh Bell.
- Appendix. Descriptions of rocks collected in 1900 by J. Macintosh Bell, in Great Bear Lake district and thence to Great Slave lake. By A. E. Barlow.
- NOTE: For preliminary report see No. 716 or 717.
- †741. (G) Report on the geology and natural resources of the area included in the map of the city of Ottawa and vicinity. Ottawa, 1901. pp. 77. With map No. 714, 8 other illustrations, and appendix. By R. W. Ells.
490. Appendix. Preliminary lists of the organic remains occurring in the various geological formations comprised in the map of the Ottawa district, including formations in the provinces of Quebec and Ontario, along the Ottawa river. Ottawa, December, 1901. pp. 29. By H. M. Ami.
- NOTE: Title on cover of separate of the appendix differs slightly from that on title-page, reading: "Preliminary lists of the organic remains occurring in the various geological formations comprised in the map of the Ottawa district, including portions of the provinces of Quebec and Ontario, along the Ottawa river." For preliminary notes on area of map No. 714 see No. 632 or 644.
- †723. (I) Report on the iron ore deposits along the Kingston and Pembroke railway in eastern Ontario. Ottawa, 1901. pp. 91. With map No. 626, plans and sections Nos. 726 to 738, and appendices A and B. By E. D. Ingall.
- Appendix A. Microscopic examination of sections of rocks associated with the iron ore deposits of the Kingston and Pembroke Railway district. By A. E. Barlow.
- Appendix B. Analyses of iron ores.—Kingston and Pembroke Railway district. (Folding sheet.) Compiled by E. D. Ingall.

NOTE: For summary reports of surveys and geological examinations by J. White see Nos. 321 or 323, 352 or 355, 353 or 356; and by E. D. Ingall No. 582 or 583.

- †739. (J) Report on the geology of Argenteuil, Ottawa and part of Pontiac counties, province of Quebec, and portions of Carleton, Russell, and Prescott counties, province of Ontario. Ottawa, 1901. With map No. 750, 5 other illustrations, and appendix. By R. W. Ells.
Appendix. Lists of fossils obtained from the several formations along the Ottawa river, pertaining to the report on sheet No. 121, Quebec and Ontario (Grenville sheet). By H. M. Ami.
NOTE: For preliminary reports see Nos. 321 or 323, 352 or 355, 353 or 356, 582 or 583, 690 or 691, 716 or 717.
769. (M) Report on the surface geology shown on the Fredericton and Andover quarter-sheet maps, New Brunswick. Ottawa, 1902. pp. 41. With maps Nos. 696 and 697. By R. Chalmers.
NOTE: For preliminary reports see Nos. 352 or 355, 353 or 356, 552 or 553, 673 or 674, 690 or 691.
763. (O) Notes on certain Archæan rocks of the Ottawa valley. (Translated from the German by N. N. Evans). Ottawa, 1902. pp. 84. With 31 illustrations. By A. Osann.
NOTE: Contains also: "On the occurrence of apatite and mica north of Ottawa," and "Two Canadian occurrences of graphite."
724. (R) Report of the section of chemistry and mineralogy. Ottawa, 1901. pp. 64. With table of contents. By G. C. Hoffmann.
718. (S) Section of mineral statistics and mines. Annual report for 1899. Ottawa, 1901. pp. 144. With folding sheet (mineral production) and 7 statistical diagrams. By E. D. Ingall.
688. *Accompanying Maps, Plans, and Sections:*
Map of Klondike gold fields, Yukon district, 1900. Scale: 2 miles to 1 inch. See part A.
- †771. Geological and topographical map of a portion of East Kootenay district, British Columbia. 1902. (Preliminary edition.) Scale: 4 miles to 1 inch. See part A.
663. Map-sheet No. 5. (Ignace sheet.) Province of Ontario, districts of Rainy River and Thunder Bay. 1906. Geology. Scale: 4 miles to 1 inch. See part A.
NOTE: On the south this sheet joins sheet No. 6, instead of "No. 7" as stated on the map. Published separately. Illustrates area described by W. McInnes in part A, also in Nos. 632 or 644, 673 or 674. See also notes of W. H. C. Smith in Nos. 320 or 322 (part A, 1890), 321 or 323.
- †742. Geological and topographical map of the Atlin mining district, British Columbia. 1902. Scale: 4 miles to 1 inch. See part B.
NOTE: Map No. 711 covers same area. See also index map No. 917.
- †714. Geological map of the city of Ottawa and vicinity. Ontario and Quebec. 1901. Scale: 1 mile to 1 inch. See part G.
- †626. Map showing the occurrences of iron ores and other minerals in portions of the counties of Frontenac, Lanark, Renfrew, and Leeds, Ontario. 1900. Scale: 2 miles to 1 inch. See part I.
- †726. [Plan of] Bedford or Glendower mine, Bedford township, Frontenac county, Ont. 1901. Scale: 400 feet to 1 inch. See part I.
- †727. Plan of the Robertsville and Mary mines, Palmerston township, Frontenac county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.
- †728. Sketch plan of the Fournier mine, S. Sherbrooke township, Lanark county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.
- †729. Sketch plan of Christie's Lake mine, S. Sherbrooke township, Lanark county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.
- †730. [Plan of] Wilbur mine, Lavant township, Lanark county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.

- †731. Sketch plan of the Yuill mine, Darling township, Lanark county, Ont. 1901. Scale: 37 feet to 1 inch. See part I.
- †732. Plan of Bluff Point mine, Bagot township, Renfrew county, Ont. 1901. Scale: 400 feet to 1 inch. See part I.
- †733. [Plan of] Calabogie mines. Campbell and Caldwell workings. Bagot township, Renfrew county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.
- †734. Sketch plan and sections of the Culhane mine, Bagot township, Renfrew county, Ont. 1901. Scale: 200 feet to 1 inch. See part I.
- †735. Sketch plan of Black Bay or Williams mine, Bagot township, Renfrew county, 1901. Scale: 200 feet to 1 inch. See part I.
- †736. [Plan of] Chaffey & Matthews mines, Crosby township, Leeds county, Ont. 1901. Scale: 600 feet to 1 inch. See part I.
- †737. [Plan and sections of] Playfair or Dalhousie mine, Lanark county, Ont. 1901. Scale: 50 feet to 1 inch. See part I.
- †738. Sketch section of Dog Lake hematite mine, Storrington township, Frontenac county, Ont. 1901. Scale 50 feet to 1 inch. See part I.
NOTE: Plans and section Nos. 726 to 738 not issued separately.
750. Map-sheet No. 121. (Grenville sheet). Provinces of Quebec and Ontario. 1903 (dated 1902). Parts of counties of Ottawa, Argenteuil, Terrebonne, Two Mountains, and Vaudreuil, Que.; and Carleton, Russell, Prescott, and Glengarry, Ont. Scale: 4 miles to 1 inch. See part J.
NOTE: This map was re-issued in 1912 with minor corrections, additions, and change of colouring, to accompany Guide Book No. 3 (No. 534).
696. Map-sheet No. 2 S.W. Andover sheet, Province of New Brunswick. 1900. Surface geology. (Comprises parts of Victoria, Carleton, York, and Northumberland counties.) Scale: 4 miles to 1 inch. See part M.
697. Map-sheet No. 1 N.W. Fredericton sheet. Province of New Brunswick. 1900. Surface geology. (Comprises parts of Carleton, York, Sunbury, and Queens counties.) Scale: 4 miles to 1 inch. See part M.
- †716. (E) **Summary Report of the Geological Survey Department for the year**
†1636. (F) **1900.** Published in English and French. Ottawa, 1901. 8vo. pp., English ii, 203, French iv, 231. (Blue-book form.) With map No. 711. By G. M. Dawson.
Contains, in addition to preliminary reports noted elsewhere under the final reports¹:
Notes by the director on tests of mica (Quebec) by W. R. Duncan; molybdenite (Quebec and Ontario); and auriferous black sands (Atlin district, B.C.) by J. B. Porter; discovery of salt near St. Gregoire, Nicolet county, Quebec; the Crowsnest coal-field, and recent discoveries of coal in British Columbia; coals in the Yukon district; and the Canadian mineral exhibit at Paris.
Explorations of Stewart river from its mouth to Fraser falls, Yukon river between Stewart and Cliff creek, and the White Horse copper deposits, Yukon Territory. By R. G. McConnell.
Work in the area of the West Kootenay sheet (maps Nos. 791 and 792) British Columbia, and notes on the rocks observed during a reconnaissance trip from Penticton to Grand Forks, B.C. By R. W. Brock.
Work in the Crowsnest Pass coal-field, British Columbia (see map No. 767). By J. McEvoy.
Explorations in the region southwest of Port Arthur, Ontario, extending to the International boundary; with notes on an examination of the iron ore deposits of Minnesota, U.S.A. By W. McInnes.
Work in the Michipicoten district, lake Superior, Ontario. By R. Bell.
Work in the Muskoka district, Ontario. By W. A. Parks.

¹See foot-note on p. 32.

Notes on work in the Muskoka, Haliburton, and Bancroft districts, Ontario. By A. E. Barlow.

Work in the areas of the Ottawa and Cornwall sheet (map No. 903) and the Brockville sheet (sheet 111, not published), Ontario. By R. W. Ellis.

Work in the Lake St. John district, Quebec. By G. A. Young.

Work in York and Carleton counties, New Brunswick. By L. W. Bailey.

Surface geology of northwestern New Brunswick, chiefly in the area of the Grand Falls sheet (map No. 254). By R. Chalmers.

Work in the Springhill, Inverness, and Sydney coal-fields, with notes on the Doctor Brook iron mines, Antigonish county, Nova Scotia. By H. Fletcher.

Notes on the Renfrew, East Waverley, and Ecum Secum gold districts (see maps Nos. 551, 1005, 1025, and plans Nos. 701, 721), Halifax and Hants counties, Nova Scotia. By E. R. Faribault.

Notes on the geological formations at Arisaig, Antigonish county, Nova Scotia. By H. M. Ami.

The natural history of Algonquin park, district of Nipissing, Ontario. By John Macoun.

Notes on insects collected by John Macoun from Sable island, Nova Scotia, and Algonquin park, Ontario. By J. Fletcher.

830. **Annual Report (new series), volume XIII, 1900.** Published only in English. Ottawa, 1903. 8vo. pp. xiv, 769. With folding sheet, 7 statistical diagrams, and 28 other illustrations. Accompanied by portfolio (issued 1904) containing maps Nos. 702, 711, 766, 777, 779, 780, 781, 785. Map No. 903 was issued separately.
NOTE: Commencing with this volume, the separates were published in both English and French.
Contains the following reports and an index (with addendum for part DD):
717. (E) (A) Summary Report on the operations of the Geological Survey for the year 1900. Published in English 1901, and French 1908. Ottawa. pp., English 203, French 233. With map No. 711. (Reprint from 1053. (F) blue-book.) By G. M. Dawson.
778. (E) (D) Report on an exploration of the east coast of Hudson bay from cape 1069. (F) Wolstenholme to the south end of James bay. Published in English 1902, and French 1910 (dated 1909). Ottawa. pp., English 84, French 98. With maps Nos. 779, 780, 781, 785, and 2 other illustrations. By A. P. Low.
NOTE: French edition of separate erroneously bears the number "1059" on title-page, and map No. 785 is not bound with it. For preliminary reports see Nos. 673 or 674, 690 or 691.
819. (E) (DD) Report on the geology and physical character of the Nastapoka 1067. (F) islands, Hudson bay. Published in English 1903, and French 1912. Ottawa. pp., English 31, French 34. With 8 illustrations. By A. P. Low.
NOTE: References to this report were omitted in the main index of the volume, but are contained in "addendum" following it. For preliminary report see No. 673 or 674.
786. (E) (F) Report on explorations in the north-eastern portion of the district of 1169. (F) Saskatchewan and adjacent parts of the district of Keewatin. Published in English 1902, and French 1914 (dated 1912). Ottawa. pp., English 48, French 53. With map No. 766 and 2 other illustrations. By J. B. Tyrrell.
NOTE: English bound with No. 787, French with No. 1233. For preliminary report see No. 613 or 614. Through error the number "786" is also printed on part F, Annual Report, 1902-03.
787. (E) (FF) Report on geological explorations in Athabaska, Saskatchewan, and 1233. (F) Keewatin districts, including Moose lake and the route from Cumberland lake to the Churchill river and the upper parts of Burntwood and Grass rivers. Published in English 1902, and French 1914 (dated 1912). Ottawa. pp., English 44, French 47. With map No. 766 and 3 other illustrations. By D. B. Dowling.

NOTE: For preliminary report see No. 690 or 691. Nos. 786, 787 English, are bound together, with cover-title: "Reports on the northeastern portion of the district of Saskatchewan and adjacent parts of the districts of Athabaska and Keewatin (Grass River map, No. 776)." With map No. 766. The cover of the French separate, containing Nos. 1169 and 1233, bears only the title of report No. 1169, and number is printed "116." Title-page of No. 1233 bears no number.

- †788. (E) (K) Report on the geology of the basin of Nottaway river, with a map of the region, 1900. Published in English 1902, and French 1909. Ottawa. pp., English 11, French 12. With map No. 702. By R. Bell.
1070. (F) NOTE: For preliminary reports see Nos. 582 or 583, 613 or 614.
776. (E) (L) Report on the geology and petrography of Shefford mountain, Quebec. Published in English 1902, and French 1912. Ottawa. pp., English 35, French 38. With map No. 777 and 12 other illustrations. By J. A. Dresser.
1157. (F) NOTE: For preliminary reports see Nos. 673 or 674, 690 or 691, 716 or 717.
799. (E) (M) Report upon the Carboniferous system of New Brunswick with special reference to workable coal. Published in English 1902 (dated 1903 on cover), and French 1913. Ottawa. pp., English 38, French 44. With 1 illustration and appendix. By L. W. Bailey.
†1257. (F) Appendix. Publications relating to the Carboniferous system of New Brunswick. [Compiled by L. W. Bailey.]
NOTE: English bound with No. 803, French with No. 1258. For preliminary report see No. 673 or 674.
803. (E) (MM) Report on the coal prospects of New Brunswick. Published in English 1902 (dated 1903 on cover), and French 1913. Ottawa. pp., English 26, French 19. With appendix. By H. S. Poole.
†1258. (F) Appendix. Borings in the Carboniferous of New Brunswick. (Not in the French translation.) [Compiled by H. S. Poole.]
NOTE: Nos. 799, 803 English, 1257, 1258 French, are bound together, with cover-title same as No. 799.
821. (R) Report of the section of chemistry and mineralogy. Published only in English. Ottawa, 1903. pp. 67. With table of contents. By G. C. Hoffmann.
744. (E) (S) Section of mines. Annual report for 1900. Published in English 1902 (title-page, dated 1901), and French 1908. Ottawa. pp., English and French 160. With folding sheet (mineral production) and 7 statistical diagrams. By E. D. Ingall.
1058. (F) NOTE: Title-page of French separate erroneously bears the number "744."
- Accompanying Maps, Plan, and Sections:*
711. Map of Atlin gold fields, British Columbia. 1901. Scale: 6 miles to 1 inch. See part A.
NOTE: Map No. 742 covers the same area. See also index-map No. 917.
903. Map-sheet No. 120. (Ottawa and Cornwall sheet). Provinces of Ontario and Quebec. 1906. Counties of Glengarry, Stormont, Dundas, parts of counties of Prescott, Russell, Carleton, Grenville, Lanark, and Leeds, Ontario. Parts of counties of Huntingdon, Soulanges, Vaudreuil, and Ottawa, Quebec. Scale: 4 miles to 1 inch. See part A.
NOTE: Published separately. No report. General note printed on map. For work in area see Ells in part A, also in Nos. 632 or 644, 673 or 674, 690 or 691, and Giroux in Nos. 582 or 583, 613 or 614.
- †785. Sketch map of the northern portion of the Labrador peninsula, from exploratory surveys by A. P. Low and Eskimo sketches collected in 1899. (Corrected reprint of map No. 758.) 1902. Scale: 50 miles to 1 inch. See part D.
NOTE: See note under No. 758.
- Geological map of the east coasts of Hudson bay and James bay from cape Wolstenholme to mouth of Rupert river. District of Ungava and

- province of Quebec. 1903. Scale: 8 miles to 1 inch. See part D.
In three sheets, as follows:
779. Sheet I. (Title as above.) Comprises the east coast of Hudson bay from Hudson strait to lat. 59°.
780. Sheet II. (Title repeated.) Comprises the east coast of Hudson bay from lat. 59° to lat. 55°.
781. Sheet III. (Title repeated.) Comprises the east coast of Hudson bay from lat. 55° to lat. 51°.
- †766. "Geological map of portions of Saskatchewan, Athabaska, and Keewatin districts. (Grass River map). 1902. Scale: 8 miles to 1 inch.
See parts F and FF.
- †702. Geological map of the basin of Nottaway river, northwestern Quebec. 1903. Scale: 10 miles to 1 inch. See part K.
777. Geological and petrographical plan and sections of Shefford mountain, Shefford county, Que. 1902. Scale: 40 chains to 1 inch. See part L.
- †761. (E) **Summary Report of the Geological Survey Department for the calendar year 1901.** Published in English and French. Ottawa, 1902. 8vo. pp., English iv, 269, French 281. (Blue-book form.) With maps Nos. 751 to 758, 760, 764, sheet of sections No. 759, and 5 other illustrations. Map No. 767 was published separately in 1902 to accompany this report. By R. Bell.
- †461. (F) NOTE: This is the first Summary Report in which the individual reports appear under distinct headings with the names of the writers. Part of the English edition was published without the maps, which were issued later in a portfolio, including map No. 767. For reference purposes in this and subsequent Summary Reports the letter "A" for director's summary and numbers for officers' reports (not printed in text) are prefixed to those reports which have been included in the "Key to publications" of the different provinces.
- Contains report of the director and the following officers' reports (no index):
- [i] The Yukon district. With maps Nos. 752 and 753. By R. G. McConnell.
- [ii] The geology of the region adjoining the western part of the International boundary. By R. A. Daly.
- [iii] The Boundary Creek district, British Columbia. By R. W. Brock.
- [iv] Crows Nest coal fields. With sheet of sections No. 759. (See also map No. 767.) By W. W. Leach.
- [v] Red Deer river, Alberta. With 5 illustrations. By L. M. Lambe.
- NOTE: Part of the report was published as a separate. See No. 912.
- †912. On *Trionyx foveatus*, Leidy, and *Trionyx vagans*, Cope, from the Cretaceous rocks of Alberta. Ottawa, 1902. 8vo. pp. 6. With 4 illustrations. By L. M. Lambe.
- [vi] Region south-east of lac Seul. [Ont.]. By W. McInnes.
- [vii] The country west of Nipigon lake and river. By A. W. G. Wilson.
- [viii] The country east of Nipigon lake and river. By W. A. Parks.
- [ix] The west side of James bay. With map No. 751. By D. B. Dowling.
- [x] Western part of the Abitibi region [Ont.-Que.]. - With map No. 760. By W. J. Wilson.
- NOTE: Includes report by F. T. Shutt on soil from Black river, a branch of the Abitibi river, lat. 48° 38', long. 80° 27'.
- [xi] Eastern part of the Abitibi region [Que.]. With map No. 760. By J. F. E. Johnston.
- [xii] The Sudbury district. By A. E. Barlow.
- [xiii] Haliburton and Bancroft areas, Ontario. By F. D. Adams.
- [xiv] Betany and zoology. By John Macoun.
- xv] Natural history of the International boundary. By J. M. Macoun.

[xvi] On borings for natural gas, petroleum, and water; also notes on the surface geology of part of Ontario. By R. Chalmers.

[xvii] The district around Kingston, Ontario. By R. W. Ells.

[xviii] Petrography of Shefford and Brome mountains [Que.]. By J. A. Dresser.

[xix] Geological exploration of Anticosti. (Translated from the French). By J. C. K. Laflamme.

[xx] New Brunswick. By L. W. Bailey.

NOTE: Includes letter from G. F. Matthew giving his opinion regarding the rocks of York and Carleton counties.

[xxi] The coal problem in New Brunswick. By H. S. Poole.

[xxii] Prince Edward Island. By L. W. Watson.

[xxiii] Kings and Hants counties, Nova Scotia. With map No. 764. (See also maps Nos. 838, 841, 1133.) By H. Fletcher.

[xxiv] Nova Scotia gold fields. (See maps Nos. 1036, 1043, and plan No. 844.) By E. R. Faribault.

[xxv] Cambrian rocks and fossils of Cape Breton. By G. F. Matthew. Chemistry and mineralogy. By G. C. Hoffmann.

The progress of mining in Canada in 1901. By E. D. Ingall.

[xxvi] Mapping and engraving. (Includes notes on a line run along the Intercolonial and Dominion Atlantic railways from Bedford basin to Hantsport, N.S.) With maps Nos. 754 to 758. By C. O. Senécal.

Palæontology and zoology. By J. F. Whiteaves.

[xxvii] Artesian wells, palæontology, archaeology, bibliographies, etc. Work by H. M. Ami.

[xxviii] Entomology. By J. Fletcher.

The library. By J. Thorburn.

NOTE: The accompanying maps were also issued both in part A and portfolio of Annual Report, 1901, and are listed with that volume (No. 907).

907. **Annual Report (new series), volume XIV, 1901.** Published only in English. Ottawa, 1906 (dated 1905). 8vo. pp. xii, 1130. With folding sheet, 8 statistical diagrams, and 60 other illustrations. Accompanied by portfolio containing maps Nos. 751 to 758, 760, 764, 772, 775, 789, 791, 792, 820, 824, 825, 833, 864, 874, 875, 885, 886, sheet of sections No. 759, and diagram No. 876. Map No. 767 was published separately.

Contains the following reports and an index:

762. (E) (A) Summary Report on the operations of the Geological Survey for the year 1901. Published in English 1902, and French 1908, Ottawa. pp., English 271, French 289. With maps Nos. 751 to 758, 760, 764, sheet of sections No. 759, and 5 other illustrations. (Reprint from blue-book.) By R. Bell.

NOTE: Number on title-page of English separate erroneously printed "744". Contents listed under No. 761.

†884. (E) (B) Report on the Klondike gold fields. Published in English 1905, and 1330. (F) French 1914, Ottawa. pp., English 71, French 80 and loose slip re maps. With maps Nos. 772 (not in French edition), 885, 886, and 8 other illustrations. By R. G. McConnell.

NOTE: For preliminary reports see Nos. 673 or 674, 687 or 688, 690 or 691, 716 or 717, 865 or 866. Part of the French edition was issued in advance without the maps.

815. (E) (F) Report on an exploration of Ekwan river, Sutton Mill lakes, and part of 1329. (F) the west coast of James bay. Published in English 1904, and French 1914, Ottawa. pp., English 60 and errata slip, French 68. With 11 illustrations and appendices I and II. By D. B. Dowling.

†494. Appendix I. Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan river and Sutton Mill lakes, Keewatin, collected by D. B. Dowling in 1901, with descriptions of such species as appear to be new. Ottawa, 1904. pp. 24. By J. F. Whiteaves.

Appendix II. List of plants collected by D. B. Dowling at the mouth of the Ekwan and Albany rivers, 1901 (misprinted "1891"). By John Macoun.

NOTE: The map referred to in this report has been incorporated in map No. 814 which accompanies part A, Annual Report, vol. XV, 1902-03. Map No. 751 is a sketch-map of the same district. For preliminary report see No. 761 or 762, and for report on fossils, No. 950 (5.A2,A3).

- †873. (H) Report on the origin, geological relations and composition of the nickel and copper deposits of the Sudbury mining district, Ontario, Canada. Published only in English. Ottawa, 1904. pp. 236. With 30 illustrations. Accompanied by portfolio containing maps Nos. 775, 820, 824, 825, 864. By A. E. Barlow.
- NOTE: A revised edition of this report was published in 1908. See No. 961. For preliminary reports see Nos. 761 or 762, and 816 or 817. Letter "H" omitted from pages of report.
790. (E) (J) Report on the geology of a portion of eastern Ontario (to accompany map-sheet No. 119). Published in English 1905 (dated 1904), and French 1915 (dated 1914). Ottawa. pp., English 89, French iv, 107. With map No. 789 and appendix. By R. W. Ells.
1394. (F)
- †495. - Appendix. Preliminary lists of fossil organic remains from the Potsdam, Beekmantown (Calceiferous), Chazy, Black River, Trenton, Utica, and Pleistocene formations comprised within the Perth sheet (No. 119) in eastern Ontario. Ottawa, January, 1905. pp. 12. By H. M. Ami.
- NOTE: For summaries of preliminary work see Nos. 582 or 583, 613 or 614, 632 or 644.
871. (E) (M) Report on the Pictou coal field, Nova Scotia. Published in English 1904, and French 1915 (dated 1914). Ottawa. pp., English 38, French iv, 46. With map No. 833 (not bound in with French separate). By H. S. Poole.
1395. (F)
863. (E) (O) The artesian and other deep wells on the island of Montreal. Published in English 1904, and French 1909. Ottawa. pp., English 74, French 78. With maps Nos. 874, 875, diagram No. 876, and 6 other illustrations. By F. D. Adams and O. E. LeRoy.
1052. (F)
- NOTE: For preliminary report see No. 716 or 717.
- †800. (S) Section of mines. Annual report for 1901. Published only in English. Ottawa, 1903 (dated 1902). pp. 160. With folding sheet (mineral production), 8 statistical diagrams, and index (in separate). By E. D. Ingall.
- NOTE: Includes special article on platinum by T. C. Denis, reprinted with additions in No. 818.
- Accompanying Maps, Sections, and Diagrams:*
752. Sketch map of Salmon River gold field, Yukon Territory. 1901. Scale: 2 miles to 1 inch. See part A.
- NOTE: See also index-map No. 917.
753. Sketch map of Sixtymile River gold-fields. 1901. Scale: 6 miles to 1 inch. See part A.
- NOTE: See also index-map No. 917.
759. Sections of coal-measures, Crows Nest coal fields. 1901. Scale: 300 feet to 1 inch. See part A.
- NOTE: Omitted by mistake from some copies of the volume.
767. Geological and topographical map of Crows Nest coal-fields, East Kootenay district, B.C. 1902. (Preliminary edition.) Scale: 2 miles to 1 inch. See part A.
- NOTE: Published separately. Not included in portfolio. Illustrates also preliminary report by J. McEvoy in part A, Annual Report, 1900. See also map No. 1377.
751. Sketch map showing exploration of Equan (Ekwan) and Trout rivers and west coast of James bay. 1901. Scale: 50 miles to 1 inch. See part A.
- †760. Sketch map of the Lake Abitibi region. 1901. Scale: 16 miles to 1 inch. See part A.

- †764. Geological sketch map of parts of Kings and Hants counties, N.S. 1901. Scale: 2 miles to 1 inch. See part A.
The following four index-maps, Nos. 754, 755, 756, and 757, accompanying part A, were printed for distribution with the list of publications, and were issued with the supplementary list (No. 811) dated 1903. Scale: 50 miles to 1 inch.
- †754. Index map of southern British Columbia. To accompany the list of publications. 1901. Scale: 50 miles to 1 inch.
NOTE: Includes part of Alberta.
- †755. Index map of northwestern Ontario. To accompany the list of publications. 1901. Scale: 50 miles to 1 inch.
- †756. Index map of New Brunswick, Prince Edward Island, and part of Quebec. To accompany the list of publications. 1901. Scale: 50 miles to 1 inch.
- †757. Index map of Nova Scotia. To accompany the list of publications. 1901. Scale: 25 miles to 1 inch.
758. Sketch map of the northern portion of the Labrador peninsula, from exploratory surveys by A. P. Low and Eskimo sketches collected in 1899-1900-1901. Scale: 50 miles to 1 inch. See part A.
NOTE: Longitude "79°" at top of map should read "80°". See corrected edition of map (No. 785) which, however, has the same error. The separate of part A, Annual Report, vol. XIV, was published before part D, Annual Report, vol. XIII, which accounts for the appearance of the original map with vol. XIV, instead of with vol. XIII.
772. Geological and topographical map of the Klondike mining district, Yukon Territory. 1905. Scale: 2 miles to 1 inch. See part B.
NOTE: Reprinted in 1915 for French edition of the report, but omitted by mistake.
885. Map of Klondike district and vicinity to illustrate report on water supply. 1905. Scale: 8 miles to 1 inch. See part B.
NOTE: Reprinted in 1915 for French edition of the report. See also index-map No. 917.
886. Topographical map of the Klondike mining district, Yukon Territory, showing distribution of high-level auriferous gravels. 1905. Scale: 2 miles to 1 inch. See part B.
NOTE: Reprinted in 1915 for French edition of the report. See also index-map No. 917.
775. Geological map of a portion of the Sudbury mining region, district of Algoma, Ont. (Victoria Mines map). 1903. Scale: 1 mile to 1 inch. See part H.
820. Geological map of a portion of the Sudbury mining region, districts of Algoma and Nipissing, Ont. (Sudbury map). 1904. Scale: 1 mile to 1 inch. See part H.
- Geological map of the vicinity of Copper Cliff, Sudbury mining district, Ontario. 1903. Scale: 400 feet to 1 inch. See part H.
In two sheets, as follows:
824. North sheet.
825. South sheet.
864. Geological map of the vicinity of Elsie and Murray mines, Sudbury mining district, Ontario. 1904. (Connects with map No. 824.) Scale: 400 feet to 1 inch. See part H.
NOTE: Second editions of maps Nos. 775, 820, 824, 825, and 864 were published in 1907 to accompany the revised edition (No. 961) of part H.
- †789. Map-sheet No. 119. (Perth sheet). Province of Ontario. Parts of counties of Renfrew, Lanark, Lennox and Addington, Frontenac, and Carleton. 1904. Scale: 4 miles to 1 inch. See part J.
- †833. Geological map of Pictou coal field, Nova Scotia. 1904. Scale: 25 chains to 1 inch. See part J.
874. Geological map of the island of Montreal and vicinity. Province of Quebec. 1905. Scale: 4 miles to 1 inch. See part O.

875. Map of the city of Montreal and vicinity, showing location of wells. 1904. Scale: 3,000 feet to 1 inch. See part O.
876. Graphic diagrams showing the relations of certain groups of wells in the city of Montreal and vicinity. 1904. Vertical scale: 150 feet to 1 inch. See part O.
- NOTE: Not issued separately.
- The following maps, Nos. 791 and 792, are not accompanied by any final report, but No. 792 bears explanatory notes. On account of the great demand for them advantage was taken of the publication of Annual Report, vol. XIV, to include them in the accompanying portfolio. For preliminary reports on work in the area see Nos. 552 or 553, 582 or 583, 613 or 614, 632 or 644, 673 or 674, 690 or 691, 716 or 717.
791. West Kootenay sheet, British Columbia. 1903 (dated 1902). Economic minerals and glacial striae. Scale: 4 miles to 1 inch.
- NOTE: A second edition was issued in 1908.
792. West Kootenay sheet, British Columbia. 1904. Geologically coloured. Scale: 4 miles to 1 inch.
- †816. (E) **Summary Report of the Geological Survey Department of Canada for the calendar year 1902.** Published in English and French, Ottawa, 1903. 8vo. pp., English vi, 482, French vi, 503. (Blue-book form.) With maps Nos. 801, 804, 805, 808, 809, 810, 812, 814, plan No. 802, section No. 806, and 8 other illustrations. By R. Bell.
- †957. (F) NOTE: Through error, the French edition bears the number "947". See note under No. 761 regarding numbers prefixed to some of the individual reports.
- Contains the following reports and an index:
- [A] Report of the director, including notes on roofing slate of the Melbourne region, Eastern Townships, Quebec; and report on the work of the Committee of the Royal Society of Canada on the nomenclature of geological formations in Canada.
- [i] The Macmillan river; Yukon district. With map No. 805. By R. G. McConnell.
- [ii] The climate and flora of the Yukon district. By John Macoun.
NOTE: Includes report by R. F. Stupart on the climate of Dawson.
- [iii] Geology of the west coast of Vancouver island. By A. Webster.
- [iv] Geology of the west coast of Vancouver island. By E. Haycock.
- [v] Preliminary report on the Boundary Creek district, British Columbia. (See maps Nos. 828 and 834.) By R. W. Brock.
- [vi] Geology of the western part of the International boundary (49th parallel). By R. A. Daly.
- [vii] Notes on the geology of Anthracite, Alberta. By H. S. Poole.
- [viii] The region south-west of Fort Smith, Slave river, N.W.T. By C. Camsell.
- [ix] The Blairmore-Frank coal-fields [Alberta]. With map No. 808. By W. W. Leach.
- [x] Eastern Assiniboia and southern Manitoba. By D. B. Dowling.
NOTE: Contains notes on coal-mining; brick, cement, and plaster industries. For descriptions of fossils see No. 950 (5.B1).
- [xi] Notes to accompany a contoured plan of the lower slope of Turtle mountain, Manitoba. With map No. 804. By D. B. Dowling.
- [xii] A geological reconnaissance about the head-waters of the Albany river [Ont.]. By A. W. G. Wilson.
- [xiii] Region on the north-west side of lake Nipigon. By W. McInnes.
- [xiv] Region lying north-east of lake Nipigon. By W. A. Parks.
- [xv] Reconnaissance surveys of four rivers south-west of James bay. With map No. 814, and 2 other illustrations. By W. J. Wilson.
NOTE: Includes "List of plants collected by W. J. Wilson along the shore of James bay and in the valley of the Kapiscau river", by John Macoun, and list of insects by J. Fletcher.

- [xvi] Geology of the Bruce Mines district [Ont.]. By E. D. Ingall.
- [xvii] The Sudbury mining district. By A. E. Barlow.
- [xviii] Artesian borings, surface deposits, and ancient beaches in Ontario. With map No. 809. By R. Chalmers.
- [xix] The Algonquin shore-line in Simcoe county, Ontario. (See map No. 920.) By A. F. Hunter.
- [xx] An investigation of the copper-bearing rocks of the Eastern Townships, province of Quebec. With appendix. By J. A. Dresser.
- [xxi] Appendix. Analyses of rocks from Brome mountain [Que.]. Analyses by M. F. Connor, petrographical descriptions by J. A. Dresser.
- [xxii] Palæontology and chronological geology. With 6 illustrations. By H. M. Ami.
- NOTE: Includes "Notes on drillings obtained in six diamond-drill bore-holes in the bed of the St. Lawrence river at Victoria cove, Sillery, eight miles above Quebec city, Quebec", and "Preliminary report on the geological formations in the vicinity of the Quebec Bridge piers and abutments, Victoria cove, Sillery, Que."
- General report on the work of 1902. By R. W. Ells.
- [xxiii] The oil fields of Gaspé [Que.]. With map No. 802. By R. W. Ells.
- [xxiv] The Albert shale deposits of Albert and Westmorland counties, N.B. By R. W. Ells.
- [xxv] Report on the geology of Prince Edward Island with reference to proposed borings for coal. With map No. 801. By R. W. Ells.
- [xxvi] The Carboniferous rocks of Chignecto bay [N.B. and N.S.]. By H. S. Poole.
- [xxvii] Geological observations in northern New Brunswick. By L. W. Bailey.
- [xxviii] Surveys and explorations in Richmond, Cape Breton, Kings, Cumberland, and other counties of Nova Scotia. With map No. 812. (See also maps Nos. 124, 202, 204, 205, 600, 610, 636, 641, 654, 793 to 796, 837, 838, 879, 1037, 1134, 1185.) By H. Fletcher.
- [xxix] Nova Scotia gold fields. With section No. 806. (See also maps Nos. 381, 383, 384, 390, 550, 551, 592, 634, and plans Nos. 647, 656, 832, 843, 867, 945, 1043.) By E. R. Faribault.
- Chemistry and mineralogy. By G. C. Hoffmann.
- Report of the mines section for 1902. By E. D. Ingall.
- Mapping and engraving. By C. O. Sénécal.
- Palæontology and zoology. By J. F. Whiteaves.
- Palæontological work. By L. M. Lambe.
- Natural history of the International boundary (49th parallel). By J. M. Macoun.
- The library. By J. Thorburn.

NOTE: The accompanying maps were also issued with part A and in portfolio of Annual Report, 1902-03, and are listed under that volume (No. 911).

865. **Summary Report of the Geological Survey Department of Canada for the calendar year 1903.** Ottawa, 1904. 8vo. pp., vi, 218. (Blue-book form.) With maps Nos. 842, 845, 852, 853, 862, plan No. 848, sections Nos. 849, 850, 6 other illustrations, and appendix. By R. Bell.

NOTE: Probably also published in French, but no copy was seen. See note under No. 761 regarding numbers prefixed to some individual reports.

Contains the following reports and an index:

- [A] Report of the director, including notes on the rock-slide at Frank, Alberta; amygdaloid in Manitoba; the discovery of silver and cobalt at Long lake (Cobalt lake), about 5 miles southward of Haileybury, on the west shore of Timiskaming lake, Ontario; publications of the Geological Survey on economic minerals, with a detailed list of same;

the Geological Survey exhibit at Dominion of Canada Industrial Exhibition, Toronto; utilization of low-grade phosphate rock (Palmaer process); the International Geological Congress; analysis of contents (other than statistics) of the annual reports of the Mines section.

[i] Klondike district, Yukon Territory. (See appendix No. [xviii].) By R. G. McConnell.

[ii] The Lardeau district, B.C. With map No. 853, and 1 other illustration. (See also map No. 1147.) By R. W. Brock.

[iii] Peace River country [Alberta]. With map No. 842. By J. M. Macoun.

[iv] On the coal basins in the Rocky mountains, Sheep Creek and Cascade troughs northward to the Panther river [Alberta]. With map No. 845 and 5 other illustrations. By D. B. Dowling.

[v] Geology of the International boundary. By R. A. Daly.

[vi] The Winisk river, Kewatin district. By W. McInnes.

NOTE: Area is now included in Ontario.

[vii] The Nagagami river and other branches of the Kenogami [Ont.]. By W. J. Wilson.

[viii] The Timagami district [Ont.]. With map No. 852. By A. E. Barlow.

[ix] Prince Edward and Hastings counties, Ont. By R. H. Ells.

[x] The recent landslide on the Lièvre river, P.Q. With plan No. 848. By R. W. Ells.

[xi] Surface geology of the southern part of the province of Quebec. By R. Chalmers.

[xii] Geology of Yamaska mountain [Que.]. By G. A. Young.

[xiii] The copper-bearing rocks of the Eastern Townships, Quebec. With map No. 862. By J. A. Dresser.

[xiv] Charlotte county, New Brunswick. By R. W. Ells.

[xv] Northern part of Nova Scotia. (See maps Nos. 192, 199, 230, 600, 793 to 796, 812, 826, 840, 879, 1037.) By H. Fletcher.

[xvi] Gold fields of Nova Scotia. With sections Nos. 849 and 850. (See also plans Nos. 642, 645, 656, 709, 937, 945, and maps Nos. 381, 383, 384, 550, 551, 1005, 1025.) By E. R. Fatibault.

Chemistry and mineralogy. By G. C. Hoffmann.

Work of the mines section. By E. D. Ingall.

[xvii] Bruce Mines district [Ont.]. By E. D. Ingall.

Mapping and engraving. By C. O. Sénécal.

Palæontology and zoology. By J. F. Whiteaves.

Vertebrate palæontology. By L. M. Lambe.

Botany and ornithology. By John Macoun.

The library. By J. Thorburn.

[xviii] Appendix. Assays for gold. By M. F. Connor.

NOTE: An appendix to [i] above.

NOTE (to Summary Report, No. 865): The accompanying maps were also issued with part AA and in portfolio of Annual Report, 1902-03, and are listed under that volume (No. 911).

911. **Annual Report (new series), volume XV, 1902-03.** Published only in English. Ottawa, 1907 (dated 1906). 8vo. pp. x, 1123. With 2 folding sheets, 8 statistical diagrams, and 23 other illustrations. Accompanied by portfolio containing maps Nos. 801, 804, 805, 808, 809, 810, 812, 814, 842, 845, 846, 847, 852, 853, 862, plans Nos. 802, 848, and sections Nos. 806, 823, 849, 850. Maps Nos. 828 and 834 were issued separately.

Contains the following reports and an index:

817. (E) (A) Summary Report on the operations of the Geological Survey for the
1055. (F) calendar year 1902. Published in English 1903, and French 1908,

Ottawa, pp., English ii, 484, French iv, 503. With table of contents, maps Nos. 801, 804, 805, 808, 809, 810, 812, 814, plan No. 802, section No. 806, 8 other illustrations, and an index (in separate only). See also maps Nos. 828 and 834. (Reprint from blue-book). By R. Bell.
NOTE: Contents listed under No. 816.

866. (E) (AA) Summary Report on the operations of the Geological Survey for the year 1903. Published in English 1904, and French 1908, Ottawa, pp., English iv, 218, French iv, 246. With table of contents, maps Nos. 842, 845, 846, 847, 852, 853, 862, plan No. 848, sections Nos. 849, 850, 6 other illustrations, and an index (in separate). (Reprint from blue-book.) By R. Bell.

NOTE: Contents listed under No. 865.

855. (E) Report on the Peace River region. Published only in English, Ottawa, 1904. pp. 48. With map No. 842, and appendices I, II, and III. By J. M. Macoun.

Appendix I. Table showing minimum temperatures between June 12th and September 5th, 1903. By J. M. Macoun.

Appendix II. Extract from meteorological observations made by Dr. G. M. Dawson in 1879.

Appendix III. Preliminary report, on soil and sub-soil, collected near Saskatoon or Service-berry lake at the west end of the Grande Prairie, lat. 55° 15', long. 119° 13', Peace River district. By F. T. Shutt.

NOTE: This report (E) is not included in Annual Report, vol. XV. A special edition (in pink cover) was printed in advance of the regular separate, to supply an anticipated demand. It bears the number "855" on the cover (the regular separate having "856" on cover, and "855" on title-page), and the headline "Part E, Annual Report, vol. XV," is omitted. For preliminary report see No. 865 or 866.

868. (E) (F) Report on the coal field of the Souris river, eastern Assiniboia. Published in English 1904, and French 1913. pp., English 45, French 57. With folding sheet of sections No. 823, 9 other illustrations, and table of contents. By D. B. Dowling.

NOTE: English separate erroneously bears the number "786", and the French "1152". For preliminary report see No. 816 or 817. Region described is now included in Saskatchewan.

835. (S) Section of mines. Annual report for 1902. Published only in English, Ottawa, 1904 (dated 1903 on title-page). pp. 280. With 2 folding tables (mineral production and analyses of manganese ores), 8 statistical diagrams, and an index (in separate). By E. D. Ingall.

NOTE: Includes special articles by T. C. Denis on infusorial earth (reprinted in No. 857), coal-fields of Canada (reprinted in No. 851), manganese (reprinted in No. 858), and salt deposits of Canada (reprinted in No. 859), and by E. D. Ingall on the geology of the Bruce Mines district [Ont.] (reprinted from No. 816, [xvii]), and zinc-ore deposits (reprinted in No. 860).

Accompanying Maps, Plans, and Sections:

810. Map of the Dominion of Canada, showing progress of field operations by the Geological Survey 1843-1903. 1903. Scale: 250 miles to 1 inch. See part A.

805. Map of a portion of the Yukon Territory shewing explorations on Macmillan, Pelly, and Stewart rivers. 1903. Scale: 8 miles to 1 inch. See part A.

NOTE: See also index-map No. 917.

828. Geological and topographical map of Boundary Creek mining district, British Columbia. 1905. Scale: 1 mile to 1 inch. See part A.

834. Topographical map of Boundary Creek mining district, British Columbia. Economic minerals and glacial striae. 1905. Scale: 1 mile to 1 inch. See part A.

NOTE: The above two maps (Nos. 828 and 834), published separately, illustrate report by R. W. Brock.

- †808. Geological sketch-map of part of the Blairmore-Frank coal-fields, southern Alberta. 1903. Scale: 180 chains to 1 inch. See part A.
804. Orographic map showing contour of lower slope of Turtle mountain, Manitoba, in ranges XVIII to XXIV, west of initial meridian. 1903. Scale: 1½ miles to 1 inch. See part A.
- †814. Map of part of northern Ontario and eastern Keewatin south west of James bay. 1903. Scale: 16 miles to 1 inch. See part A.
- †809. Sketch map of part of southwestern Ontario, showing shore-lines of ancient Great Lakes. 1903. Scale: 24 miles to 1 inch. See part A.
802. Sketch plan of Gaspé oil-fields, showing location of wells. 1903 (dated 1902). Scale: 2 miles to 1 inch. See part A.
NOTE: Reprinted for the Mines Branch in 1914.
801. Geological outline map of Prince Edward island and adjacent portions of New Brunswick and Nova Scotia showing supposed lines of anticlines. 1903. Scale: 16 miles to 1 inch. See part A.
812. Preliminary geological map of part of Springhill coal field, Cumberland county, N.S. 1903. Scale: 50 chains to 1 inch. See part A.
806. Transverse vertical section through main shaft and cross-cuts, Bluenose gold mine, Goldenville, Nova Scotia. 1903. Scale: about 68 feet to 1 inch. See part A.
853. Sketch map showing Lardeau and Trout Lake mineral belts, West Kootenay district, B.C. 1904. Scale: 8 miles to 1 inch. See part AA.
842. Map of part of the country between the Peace and Athabaska rivers. 1904. Scale: 32 miles to 1 inch. See parts AA and E.
845. Sketch map showing Cretaceous coal-bearing rocks at headwaters of Elbow river, Sheep creek, and Kananaskis river. District of Alberta. 1904. Scale: 2 miles to 1 inch. See part AA.
846. Map of part of the district of Keewatin showing survey of the Winisk river. 1904. Scale: 16 miles to 1 inch. See part AA.
847. Map of part of northwestern Ontario, north of lake Superior. (Preliminary edition.) 1904. Scale: 16 miles to 1 inch. See part AA.
NOTE: Map No. 964 covers the same area.
- †852. Geological map of the Northeast Arm and Vermilion iron ranges. Lake Timagami, district of Nipissing, Ontario. 1904. Scale: 40 chains to 1 inch. See part AA.
848. Plan of the recent landslide on Lièvre river, near Buckingham, P.Q. 1904. Scale: 12 chains to 1 inch. See part AA.
862. Map showing the older copper-bearing rocks of southern Quebec. 1904. Scale: 10 miles to 1 inch. See part AA.
850. Dolliver Mountain mine, Upper Isaacs Harbour gold district, Guysborough county, Nova Scotia. Transverse section through vertical shaft and cross-cut, showing structure of new saddle veins developed and proving their recurrence in depth. 1904. Scale: 25 feet to 1 inch. See part AA.
849. Transverse section, West Lake mine, Mount Uniacke gold district, Hants county, Nova Scotia. 1904. Scale: 10 feet to 1 inch. See part AA.
823. Sections of the Souris coal-field, district of Assiniboia. 1903. Vertical scale: 50 feet to 1 inch; horizontal scale: 1½ miles to 1 inch. See part F.
- †899. (E) **Summary Report of the Geological Survey Department of Canada for the calendar year 1904.** Published in English and French, Ottawa, 1905. Svo. pp., English xl, 392, French xlv, 398. (Blue-book form.) With maps Nos. 889 to 892, 894, 895, 897, 898, 6 other illustrations, and appendices I to IV. By R. Bell.
NOTE: See note under No. 761 regarding numbers prefixed to individual reports.
Contains the following reports (no index):
[A] Report of the director, including detailed list of Geological Survey publications referring to peat, lignite, bituminous and oil shales, natural

gas, and petroleum in the provinces of Quebec, Ontario, and Manitoba; notes on the work of the committees on geological nomenclature and the correlation of rock formations, with synopsis of report of the special committee for the Lake Superior region; observations on the practical character of the work of the department; Provincial mining bureaus; and notes on petroleum and natural gas.

[i] The Klwane mining district. (South-western portion of Yukon district). With map No. 894. By R. G. McConnell.

[ii] The Duncan Creek mining district. (Stewart river, Yukon Territory.) With map No. 891. By J. Keele.

[iii] Nicola coal-basin, B.C. With map No. 890. By R. W. Ells.

[iv] The copper claims of Aspen Grove and Aberdeen camp, B.C. By R. A. A. Johnston.

[v] The Lardeau mining district [B.C.] See maps Nos. 853 and 1147. By R. W. Brock.

[vi] Geology of the western part of the International boundary (49th parallel). By R. A. Daly.

[vii] Natural history of the National park [Alberta]. By John Macoun.

[viii] The Cascade and Costigan coal basins and their continuation northward [Alberta]. With map No. 892 and 9 other illustrations. By D. B. Dowling.

[ix] The government expedition to Hudson bay and northward by the S.S. *Neptune*, 1903-04. Geology and Natural History. (See map No. 906.) By A. P. Low.

[x] Country around the headwaters of the Severn river [Ont.]. With map No. 889. By C. Camsell.

[xi] The upper parts of the Winisk and Attawapiskat rivers [Ont.]. By W. McInnes.

NOTE: Includes list of shells by J. F. Whiteaves. See No. 492.

†492. List of land and fresh-water shells from the district of Keewatin collected by Mr. Wm. McInnes in 1904. Ottawa, 1905. pp. 6. By J. F. Whiteaves.

NOTE: Published as a separate under same title, but with name printed "W. McInnes". Repaged.

[xii] The Little Current and Drowning rivers, branches of the Albany, east of lake Nipigon [Ont.]. By W. J. Wilson.

[xiii] Survey of the south and west coast of James bay. With map No. 895. By O. O'Sullivan.

[xiv] Geology of the country around Bruce Mines [Ont.]. With map No. 898. By E. D. Ingall and T. C. Denis. See also appendix I (No. xxxii).

NOTE: Reprinted in No. 835. Map No. 898 is not in French edition of Summary Report.

[xv] On corundum in Ontario and on surveys near lake Timagami. By A. E. Barlow.

[xvi] On surveys between Rabbit and Timagami lakes [Ont.]. By G. A. Young.

[xvii] The geology of a district from lake Timiskaming northward. With 2 illustrations. By W. A. Parks.

NOTE: Contains description of Cobalt mining district, Ont.

[xviii] Raised shorelines along the Blue Mountain escarpment [Ont.]. See map No. 920. By A. F. Hunter.

[xix] Minerals of the Ottawa valley. By C. W. Willimott.

[xx] Geology of part of the county of Ottawa [Que.]. (See Map No. 1062.) By E. Haycock.

[xxi] Geology of part of the county of Ottawa [Que.]. By J. F. E. Johnston.

[xxii] Surface geology of eastern Quebec. By R. Chalmers.

[xxiii] The copper-bearing rocks of the Sherbrooke district, P.Q. By J. A. Dresser.

- [xxiv] Botanical work. By J. M. Macoun.
- [xxv] Geology of Charlotte county, New Brunswick. By R. W. Ells.
- [xxvi] Fossil occurrences and certain economic minerals in New Brunswick. With appendix. By L. W. Bailey.
- [xxvii] Appendix. Preliminary list of the fossils collected by Professor L. W. Bailey from various localities in the province of New Brunswick during 1904. By H. M. Ami. See also No. 493.
- [xxviii] The counties of Cumberland, Hants, Kings, and Annapolis, Nova Scotia. With map No. 897. (See also maps Nos. 185, 187, 600, 641, 653, 654, 812, 826, 836, 840, 1133, 1134, 1185.) By H. Fletcher.
NOTE: Includes "Iron ores of Torbrook and Nictaux", with map and table of analyses. See also appendix II (No. [xxxiii]) and No. 493.
- [xxix] Gold fields of Nova Scotia. (See plan No. 937, and map No. 611.) By E. R. Fairbault.
- [xxx] On the meteorite which fell near the village of Shelburne, township of Melancthon, Ontario, in August, 1904. By R. A. A. Johnston.
Chemistry and mineralogy. By G. C. Hoffmann.
- [xxx1] Mapping and engraving. (Includes notes on traverse lines run between Port George and Bridgewater and between Middleton junction and Hantsport, Nova Scotia.) By C. O. Sénécal.
- Palæontology and zoology. By J. F. Whiteaves.
- [xxx2] Vertebrate palæontology. By L. M. Lambe.
NOTE: Includes summary of field-work in Cypress hills, Saskatchewan, with notes on the fossils collected.
- The library. By J. Thorburn.
- Mines section. By E. D. Ingall.
- [xxx3] Appendix I. Assays of ore referred to in Mr. Ingall's report. (See No. [xiv].) By M. F. Connor.
- [xxx4] Appendix II. Notes on a collection of organic remains from the ferruginous and friable shales of Messenger brook, Torbrook, near county-line between Kings and Annapolis, south of Kingston, in Kings county, Nova Scotia, collected Nov. 24th, 1902, by Hugh Fletcher. By H. M. Ami.
NOTE: Appendix to No. [xxviii]. Reprinted in No. 493.
- [xxx5] Appendix III. Description of a species of *Bythotrephis* from the dark-gray calcareous and indurated slates collected by Mr. J. B. Tyrrell from a locality along the Unihani river, seven miles north of Dalton's Post, Yukon district, Canada. By H. M. Ami.
NOTE: "J. B. Tyrrell" misprinted "J. D. Tyrrell" in title.
- [xxx6] Appendix IV. Determinations of fossil plants from various localities in British Columbia and the North-West Territories, by Professor D. P. Penhallow of McGill university, Montreal, with notes on the geological horizons indicated, by H. M. Ami.
NOTE: Reprinted in No. 493.
- †493. I. Notes on a small collection of organic remains from the Messenger Brook shales, Torbrook district, Nova Scotia.
- II. Notes on the geological horizons indicated by the fossil plants recently determined by Prof. Penhallow from various localities in British Columbia and the North West Territories, Canada.
- III. Description of a presumably new species of *Bythotrephis* (*B. Yukonensis*) from the Unihani River shales, Yukon Territory.
- IV. Preliminary lists of fossil remains from various localities and horizons in New Brunswick:
Ottawa, September, 1905. 8vo. pp. 15. By H. M. Ami.
NOTE: Reprint of Nos. [xxx3], [xxx5], [xxx4], [xxx7], respectively, Summary Report, 1904. Repaged. Caption title of I differs from that in Summary Report and on cover of separate, and has an additional note.
NOTE (to Summary Report, No. 899): The accompanying maps

were also issued both in part A and portfolio of Annual Report, 1904, and are listed with that volume (No. 952).

952. **Annual Report (new series), volume XVI, 1904.** Published only in English, Ottawa, 1907 (dated 1906). 8vo. pp. xii, 849. With map No. 898, 8 statistical diagrams, and 13 other illustrations. Accompanied by portfolio containing maps Nos. 887, 889 to 892, 894, 895, 897, 898, 901, 921, 922, 938, 942. Map No. 920 was issued separately. **NOTE:** This volume was the last published of the "new series". All subsequent reports were issued as separate publications. After 1904, the Summary Reports on the work of each year were issued only in blue-book form.
- Contains the following reports and an index:
900. (E) (A) Summary Report on the operations of the Geological Survey for the year
1057. (F) 1904. Published in English 1907, and French 1908, Ottawa. pp., English iv, 430, French iv, 438. With maps Nos. 889 to 892, 894, 895, 897, 6 other illustrations, and appendices I to IV. (Reprint from blue-book.) By R. Bell.
NOTE: Contents listed under No. 899. Map No. 898 is omitted from the separate.
940. (E) (B) Report on Graham island, B.C. Published in English 1906, and French
11328. (F) 1914, Ottawa. pp., English 46, French 48. With maps Nos. 921 and 922. By R. W. Ellis.
NOTE: This report was reprinted, without revision, in 1912. Map No. 921 in the reprint is the 2nd edition. For preliminary report see No. 947 [vi].
943. (E) (C) Report on the upper Stewart River region, Yukon. Published in
1215. (F) English 1907 (dated 1906), and French 1913 (dated 1912), Ottawa. pp., English ii, 23, French 31. With map No. 938, 4 other illustrations, and appendix. By J. Keele.
Appendix. List of butterflies and moths collected in the Yukon Territory by J. Keele 1904-05. Determined by J. Fletcher.
NOTE: Separate bound with No. 951. For preliminary report see No. 947 [iii].
951. (E) (CC) Report on the Peel river and tributaries, Yukon and Mackenzie.
1216. (F) Published in English 1907 (dated 1906), and French 1913 (dated 1912). Ottawa. pp., English 49, French 60. With map No. 942, 3 other illustrations, and "Notes on fossils," by J. F. Whiteaves. By C. Camsell.
NOTE: For preliminary report see No. 947 [iv]. Nos. 943 and 951 are bound together, with cover-title: "Reports on the Upper Stewart River region, Yukon, by J. Keele; and on the Peel river and tributaries, Yukon and Mackenzie, by C. Camsell."
902. (E) (G) Report on the geology of Brome mountain, Quebec. Published in
1159. (F) English 1907 (dated 1906), and French 1912, Ottawa. pp., English 22, French 25. With map No. 901. By J. A. Dresser.
NOTE: For preliminary report see No. 761 or 762.
888. (E) (H) The geology and petrography of mount Yamaska, province of Quebec.
1158. (F) Published in English 1906, and French 1912, Ottawa. pp., English 43, French 50. With map No. 887. By G. A. Young.
NOTE: For preliminary report see No. 865 or 866.
893. (S) Section of mines. Annual report for 1903. Ottawa, 1905. pp. 156.
With 8 statistical diagrams. By E. D. Ingall.
NOTE: The separate (erroneously numbered "894") contains folding sheet: "Mineral production of Canada, calendar years 1886 to 1903." For field-work see No. 865 or 866.
- Accompanying Maps:*
894. Sketch map of Klwane mining district, Yukon Territory: 1905. Scale: 6
miles to 1 inch. See part A.
NOTE: See also index-map No. 917.

891. Map of a portion of the Duncan Creek mining district, Yukon Territory. 1905. Scale: 6 miles to 1 inch. See part A.
NOTE: See also index-map No. 917.
890. Geological map of the coal basins of Quilchena creek, Coldwater river, Coal gully, and Ten Mile creek, Nicola valley, Yale district, B.C. 1905. Scale: 1 mile to 1 inch. See part A.
892. Geological map of Costigan coal field, Alberta. 1905. Scale: 40 chains to 1 inch. See part A.
889. Sketch map showing explorations from lac Seul to Severn lake, Keewatin. 1905. Scale: 35 miles to 1 inch. See part A.
895. Map of the west coast of James bay. 1905. (Preliminary edition). Scale: 16 miles to 1 inch. See part A.
898. Sketch map of the Bruce mines, Desbarats district, Algoma, Ontario. 1905. Scale: 2 miles to 1 inch. See part A.
- †920. Map of part of the Ontario interlake peninsula, showing shore-lines of ancient Great Lakes, 1906. Scale: 8 miles to 1 inch. See part A.
NOTE: Issued separately. Illustrates report by A. F. Hunter in part A, also in part A, Annual Report, 1902-03.
897. Preliminary geological map of the Nictaux and Torbrook iron district, Annapolis co., N.S. 1905. Scale: 25 chains to 1 inch. See part A.
921. Geological map of Graham Island coal field, British Columbia. 1906. Scale: 80 chains to 1 inch. See part B.
NOTE: A second edition was published in 1911.
922. Geological map of Graham island, Queen Charlotte group, British Columbia. 1906. Scale: about 4 miles to 1 inch. See part B.
NOTE: This map was reprinted in 1911.
938. Geological and topographical reconnaissance map of Upper Stewart River region, Yukon Territory. 1907 (dated 1906). Scale: 8 miles to 1 inch. See part C.
NOTE: See also index-map No. 917.
942. Map of the Peel and Wind rivers, Yukon Territory. 1906. Scale: 8 miles to 1 inch. See part CC.
NOTE: See also index-map No. 917.
901. Geological and petrographical map of Brome mountain, Brome county, Que. 1906 (dated 1905). Scale: 40 chains to 1 inch. See part G.
887. Geological and topographical map of Yamaska mountain, Rouville county, Que. 1906 (dated 1905). Scale: 20 chains to 1 inch. See part H.
- †947. (E) **Summary Report of the Geological Survey Department of Canada**
948. (F) **for the calendar year 1905.** Published in English 1906, and French 1908 (dated 1906), Ottawa. 8vo. pp., English vi, 144, French vi, 152. (Blue-book form.) With maps Nos. 915, 916, 917, and 4 other illustrations. By R. Bell.
NOTE: Through error the French edition bears the number "947." See note under No. 761 regarding numbers prefixed to individual reports.
Contains the following reports (no index):
[A] Report of the director, including notes on the International Geological Committee and Canadian committee on geological nomenclature; summary of mineral production of Canada in 1905 (advance statement); petroleum and natural gas; Canadian economic minerals at the Liège (Belgium) International Exhibition; hydraulic cement; and utilization of low-grade fuels.
[i] Head waters of White river, Yukon. With map No. 917. By R. G. McConnell.
[ii] Windy Arm district, northwestern British Columbia. With map No. 916. By R. G. McConnell.
NOTE: This report was issued in advance as a separate. See No. 909.
- †909. Recent mineral discoveries on Windy Arm, Tagish lake, Yukon. Ottawa, 1905. 8vo. pp. 12. With map No. 916. By R. G. McConnell.

[iii] A reconnaissance survey on the Stewart river [Yukon]. With map No. 917. By J. Keele.

[iv] Peel river, in the Yukon and Mackenzie districts. With map No. 917. By C. Camsell.

NOTE: By mistake the work is stated to have been done in 1904, instead of in 1905.

[v] The Unuk River mining region of British Columbia. By F. E. Wright.

NOTE: Map referred to in this report has not yet been published.

[vi] Graham island (of the Queen Charlotte group, B. C.). By R. W. Ells.

[vii] The Nanaimo-Comox coal-field [B.C.]. By H. S. Poole.

[viii] The northern extension of the Elk River coal basin. By D. B. Dowling.

[ix] The foothills of the Rocky mountains south of the main line of the Canadian Pacific railway [Alberta and B.C.]. With 1 illustration. By D. D. Cairnes.

[x] The surface geology of Manitoba, Saskatchewan, and Alberta. By R. Chalmers.

[xi] The region south of cape Tatnam, Hudson bay. By W. S. Dobbs.

[xii] A survey of the coast of Hudson bay from York Factory to Severn river. With map No. 915. By O. O'Sullivan.

[xiii] The headwaters of the Winisk and Attawapiskat rivers [Ont.]. (See map No. 1089.) By W. McInnes.

[xiv] The Lake Superior region between the Pic and Nipigon rivers [Ont.]. By W. H. Collins.

[xv] The region between lake Timagami and Spanish river [Ont.]. By W. J. Wilson.

[xvi] The Muskoka district [Ont.]. By T. L. Walker.

[xvii] Niagara falls and Niagara district [Ont.]. By J. W. Spencer.

[xviii] The Peterborough sheet [Ont.]. By W. A. Johnston.

[xix] The Cobalt mining district [Ont.]. With 3 illustrations. By R. Bell.

[xx] Geology of parts of the counties of Labelle and Wright, Québec. By E. Haycock. (See Maps Nos. 1062, 1063.)

[xxi] St. Bruno mountain [Que.]. By J. A. Dresser.

NOTE: Includes also notes on occurrences of copper ore in Wolfe, Arthabaska, and Megantic counties, Québec.

[xxii] The valley of the Tobique river, N.B. By W. A. Parks.

[xxiii] Work in Charlotte county, N.B. By R. A. A. Johnston.

[xxiv] Geological work in the northwestern parts of Nova Scotia. (See maps Nos. 600, 653, 654, 833, 840, 897, 1133, 1185.) By H. Fletcher.

[xxv] Gold fields of Nova Scotia. (See maps Nos. 700, 807, 908, 1005, 1025, 1037.) By E. R. Faribault.

Chemistry and mineralogy. By G. C. Hoffmann. See also No. 958.

Palæontology and zoology. By J. F. Whiteaves.

[xxvi] Vertebrate palæontology. By L. M. Lambe.

NOTE: Includes: "Note on the age of the Horsefly, Similkameen, and Tranquille Tertiary beds of the southern interior of British Columbia."

The botany and climate of the northwest side of the lower St. Lawrence. By John Macoun.

Botanical work on the southern boundary of British Columbia. By J. M. Macoun.

Mapping and engraving. By C. O. Senécal.

The library. By John Thorburn.

Accompanying Maps:

917. Map of the Yukon Territory. 1906. Scale: 32 miles to 1 inch. See Nos. i, iii, and iv.
NOTE: The areas covered by maps Nos. 275, 276, 277, 310, 311, 312, 313, 711, 742, 752, 753, 805, 885, 886, 891, 894, 916, 938, 942, are indicated on this map. For area indicated as covered by map No. "937" the map-number should read "942".
- †916. Sketch map of Windy Arm mining district. Yukon Territory. 1906. Scale: 2 miles to 1 inch. See Nos. ii and 909.
NOTE: See also index-map No. 917.
915. Map of part of southwestern coast of Hudson bay from York Factory to Fort Severn. 1906. Scale: 16 miles to 1 inch. See No. xii.
- †959. (E) ' **Summary Report of the Geological Survey Department of Canada**
960. (F) ' **for the calendar year 1906.** Published in English 1907 (dated 1906), and French 1908 (dated 1906), Ottawa. 8vo. pp., English vi, 206, French vi, 214. (Blue-book form.) Maps Nos. 1007 and 1009, to accompany this report, were published separately in 1908. By A. P. Low.
NOTE: See note under No. 761 regarding numbers prefixed to the individual reports.
- Contains the following reports and an index:
- [A] Report of the director, including notes on a trip to Cobalt, Ont.; the relations between the Geological Survey and the Ontario Department of Mines; inspection work in British Columbia; visit to Mexico with the International Geological Congress; International Nomenclature Committee; and the mining industry in 1906.
- [i] Klondike district. By R. G. McConnell.
- [ii] Explorations in a portion of the Yukon, south of Whitehorse. By D. D. Cairnes.
- [iii] On surveys in New Westminster district and Texada island, B.C. By O. E. LeRoy.
- [iv] The Telkwa mining district, B.C. (See map No. 1392.) By W. W. Leach.
- [v] The Similkameen district, B.C. By C. Camsell.
- [vi] On operations in the Rossland, B.C., mining district. By R. W. Brock.
- [vii] Rocky Mountain coal areas, between the Bow and Yellowhead passes [Alberta]. By D. B. Dowling.
- [viii] Surface geology of the Great Plains and British Columbia, etc. By R. Chalmers.
- [ix] On explorations along the line of the Grand Trunk Pacific railway between Portage la Prairie and Edmonton. By John Macoun.
- [x] Explorations along the proposed line of the Hudson Bay railway [Man.]. By W. McInnes.
- [xi] On explorations along the proposed route of the Canadian Northern railway, between Split lake and Fort Churchill [Man.]. With map No. 1009. By O. O'Sullivan.
- [xii] On surveys along the National Transcontinental Railway location between lake Nipigon and lac Seul [Ont.]. By W. H. Collins.
- [xiii] Cobalt district and northward. By R. Bell.
- [xiv] On the Quebec side of lake Timiskaming. See map No. 1007. By A. E. Barlow.
- [xv] On explorations along the proposed line of the Transcontinental railway from lake Abitibi, eastward [Que.]. By W. J. Wilson.
- [xvi] Peterborough, Prince Edward, and Simcoe sheets [Ont.]. By W. A. Johnston.
- [xvii] Surveys on parts of the proposed route of the Transcontinental railway in New Brunswick. By R. A. A. Johnston.
- [xviii] Southern New Brunswick. By R. W. Ells.

[xix] Surveys in western Nova Scotia. (See maps Nos. 230, 600, 609, 795, 840, 1133). By H. Fletcher.

[xx] Gold fields of Nova Scotia. (See maps Nos. 985, 1005, 1019, 1025, 1036, 1037, 1043, 1539.) By E. R. Faribault.

Chemistry and mineralogy. By G. C. Hoffmann.

[xxi] Mines section. By E. D. Ingall.

[xxii] Western oil, gas, and coal fields. By T. C. Denis.

[xxiii] Palaeontology and zoology. By J. F. Whiteaves, including reports by L. M. Lambe and H. M. Ami.

NOTE : Includes notes on fossils from the Utica at St. Bruno mountain, Quebec, the Cretaceous of Snake river and Peel river, Yukon, and the Pleistocene of Pakenham, Ont., by J. F. Whiteaves; and notes on field-work in the Kamloops, Horsefly, Nicola, and Similkameen districts, British Columbia, by L. M. Lambe.

Natural History branch. By John Macoun.

Publishing department. By F. J. Nicolas.

Mapping and engraving. By C. O. Sénécal.

Librarian's report. By J. Thorburn.

Accountant and secretary's department. By J. Marshall.

Accompanying Maps (published separately from the report):

1009. Geological map of canoe route between Split lake and Fort Churchill, Northwest Territories. 1908. Scale: 16 miles to 1 inch. See No. xi.

NOTE : Area covered by map is now included in the province of Manitoba.

1007. Geological map of a group of townships adjoining lake Timiskaming, county of Pontiac, Quebec. 1907. Preliminary edition, subject to revision. Scale: 2 miles to 1 inch. See No. xiv.

1017. (E) **Summary Report of the Department of Mines, Geological Survey**
1018. (F) **Branch, for the calendar year 1907.** (Nov. 30, 1906 to Nov. 30, 1907.) Published in English 1908, and French 1909, Ottawa. Svo. pp., English viii, 132, French 151. (Blue-book form.) Maps Nos. 1033 and 1147 were issued separately. By R. W. Brock.

NOTE : There are two English editions of this report in blue-book form. That for Parliament (published Jan. 13, 1908) does not contain the separate summary report on explorations in Nova Scotia (No. 1021) included in the edition printed (Dec. 26, 1908) for the Geological Survey. Cover of latter differs in having the usual Department of Mines imprint. See note under No. 761 regarding numbers prefixed to individual reports.

Contains the following reports and an index:

[A] Report of the director, including extracts from report of International Committée on correlation of the Pre-Cambrian rocks; notes on work of T. C. Denis in Hastings county, Ontario, and at St. Joseph de Pierreville, Quebec.

[i] Report on portions of the Yukon Territory, chiefly between Whitehorse and Tantalus. See map No. 1033. By D. D. Cairnes.

[ii] Report on that portion of the coast of British Columbia extending from Powell river to Kingcome inlet, including the adjacent islands. By J. A. Bancroft.

[iii] The Bulkley valley, B.C. (See map No. 1392.) By W. W. Leach.

[iv] Camp Hedley, Osoyoos mining division, B.C. By C. Camsell.

[v] Explorations in the Rocky mountains [Alberta]. By D. B. Dowling.

[vi] The Cascades, Palliser, and Costigan coal basins [Alberta]. By G. S. Malloch.

[vii] Pasquia Hills and Lower Carrot River-region [Sask.-Man.]. By W. McInnes.

[viii] Explorations along the National Transcontinental Railway location from Sturgeon river westward [Ont.]. By W. H. Collins.

[ix] Shore lines between Georgian bay and the Ottawa river [Ont.]. By A. F. Hunter.

[x] Peterborough and Simcoe sheets [Ont.]. By W. A. Johnston.

[xi] An area from lake Timiskaming eastward [Que.]. By M. E. Wilson.

[xii] Report on the district along the National Transcontinental railway from Bell river eastward [Que.]. By W. J. Wilson.

[xiii] Explorations along the National Transcontinental Railway location from La Tuque westward [Que.]. By O. O'Sullivan.

[xiv] Surface geology of the St. Lawrence valley. By R. Chalmers.

[xv] The serpentine belt of the Eastern Townships [Que.]. By J. A. Dresser.

[xvi] Surveys in southern New Brunswick. By R. W. Ells.

[xvii] The tin-bearing locality at New Ross, N.S. By G. A. Young.

[xviii] Lunenburg county, Nova Scotia. By E. R. Faribault.

[xix] The Lardeau district, British Columbia. See map No. 1147. By R. W. Brock.

NOTE: Includes notes on Rossland mining camp, West Kootenay district.

The chemical laboratory. By F. G. Wait.

[xx] Section of mineralogy. By R. A. A. Johnston, including reports by R. L. Broadbent, C. W. Willimott, and A. T. McKinnon.

NOTE: Contains notes on minerals new to Canada by R. A. A. Johnston; and on the Canadian mineral exhibit at the International Exhibition, Christchurch, New Zealand, by R. L. Broadbent.

Memorandum *re* coal tests. By J. B. Porter.

Palæontology and zoology. By J. F. Whiteaves.

Vertebrate palæontology. By L. M. Lambe.

Natural History branch. By John Macoun.

The library.

Publishing department. English section. By F. J. Nicolas.

Publishing department. French section. By M. Sauvalle.

Mapping and engraving. By C. O. Sénécal.

Accountant and secretary's department. By J. Marshall.

Accompanying Maps (published separately from the report):

1033. Preliminary geological map of lower lake Laberge and vicinity, Yukon Territory. 1908. Scale: 1 mile to 1 inch. See No. i.

NOTE: This map illustrates a part of report No. i. The area is included in map No. 1104, published in 1910.

1147. Lardeau, West Kootenay district, British Columbia. (Map 19A.) 1912 (date 1911). Topography. Scale: 4 miles to 1 inch. See No. xix.

NOTE: Illustrates area described in report No. xix, also in part AA, Annual Report, 1902-03, and part A, Annual Report, 1904. See also map No. 853.

1021. Summary Report on explorations in Nova Scotia, 1907. Ottawa, July 3rd, 1908. 8vo. pp. 15. (See maps Nos. 131, 194, 198, 387, 388, 598, 600, 654, 833, 836, 840, 1185.) By H. Fletcher.

NOTE: Also included in Geological Survey edition (English) of No. 1017.

1072. (E) Summary Report of the Geological Survey Branch of the Department
1072a. (F) of Mines for the calendar year 1908. Published in English 1909, and French 1911, Ottawa. 8vo. pp., English viii, 220, French viii, 246. (Blue-book form.) Maps Nos. 1068, 1074, 1278 were issued separately. By R. W. Brock.

NOTE: See note under No. 761 regarding numbers prefixed to individual reports.

Contains the following reports and an index:

[A] Report of the director, including notes on examinations of copper prospects in Lavant township, Lanark county, and at Eldorado, Hastings county, Ontario; the Huronian conglomerate of the Cobalt district, Ontario; official visit of the Honourable the Minister of Mines to southern British Columbia; excursion of the Canadian Mining Institute; examinations of mines in the Slocan district, Sheep Creek camp (see maps Nos. 1068 and 1074) in West Kootenay district, Ainsworth cave, and Rossland, B.C.; experimental boring on Prince Edward Island.

[i] Preliminary report on a portion of the Yukon Territory, west of the Lewes river and between the latitudes of Whitehorse and Tantalus. (See map No. 1033.) By D. D. Cairnes.

[ii] Explorations on the Pelly, Ross, and Gravel rivers, in the Yukon and Northwest Territories. By J. Keele.

[iii] On a preliminary survey of the geology of the British Columbia coast from Kingcome inlet to Dean channel, including the adjacent islands. See map No. 1278. By R. P. D. Graham.

[iv] The Bulkley valley and vicinity [B.C.]. By W. W. Leach.

[v] North-western portion of Texada island [B.C.]. By R. G. McConnell.

Topographical work on Texada island, B.C. By F. H. MacLaren.

[vi] South-eastern portion of Vancouver island. By C. H. Clapp.

[vii] Osoyoos and Similkameen mining divisions [B.C.]. By C. Camsell.

[viii] Phoenix camp and Slocan district [B.C.]. By O. E. LeRoy.

Topographical work at St. Bruno, Que., and Phoenix, B.C. By W. H. Boyd.

[ix] The Big Horn coal basin [Alberta]. By G. S. Malloch.

[x] Steam coals of the Cascade basin. Lignite areas of Alberta and Saskatchewan. Production of coal in Alberta and Saskatchewan. By D. B. Dowling.

[xi] Explorations on the Churchill river and South Indian lake [Sask.-Man.]. By W. McInnes.

[xii] Survey of the south coast of Hudson bay from the Severn river to cape Henrietta Maria. By O. O'Sullivan.

[xiii] The region in the vicinity of lake Nipigon, Thunder Bay district, Ontario. By A. W. G. Wilson.

[xiv] Simcoe sheet, Ontario. With appendix. (See map No. 1199.) By W. A. Johnston.

Appendix. [List of fossils collected by W. A. Johnston at Longford and from the vicinity of Uphill, Ontario]. By E. O. Ulrich.

[xv] Field work on the Pleistocene deposits of south-western Ontario. By F. B. Taylor.

[xvi] Preliminary report on measurements of altitude of the Algonquin and Nipissing shorelines in Ontario, July 6-August 11, 1908. (In this report are embodied also eight measurements made later in the summer by F. B. Taylor and W. A. Johnston.) By J. W. Goldthwait and R. C. Jacobson.

[xvii] Montreal River district [Ont.]. By W. H. Collins.

[xviii] Lake Opasatika and the height of land [Que.]. By M. E. Wilson.

[xix] A geological reconnaissance along the National Transcontinental railway from the St. Lawrence river to the Interprovincial boundary between Quebec and New Brunswick. By J. A. Dresser.

[xx] Summary report on a district near Bathurst, N.B., and on the reported occurrence of gold in the Tobique country, Victoria co., N.B. By G. A. Young.

[xxi] Bituminous shales of Nova Scotia and New Brunswick: with notes on the geology of the oil-shales of Scotland. By R. W. Ells.

[xxii] Report on a portion of Cumberland county, Nova Scotia. By H. Fletcher.

NOTE: Includes note on Permian rocks of Prince Edward Island.

[xxiii] Southern part of Kings and eastern part of Lunenburg counties, N.S. By E. R. Faribault.

NOTE: Includes a short note on gold at Marsboro, near lake Megantic, Quebec, and description of the tungsten deposits of Moose River gold mines, Halifax county, N.S.

Water and borings branch. By E. D. Ingall.

[xxiv] Section of mineralogy. By R. A. A. Johnston.

NOTE: Includes list of new mineral occurrences.

Palaeontology and zoology. By J. F. Whiteaves.

[xxv] Vertebrate palaeontology. By L. M. Lambe.

NOTE: Includes notes on fossils collected in the vicinity of Albert Mines, N.B., and Horton Bluff, N.S.

[xxvi] Invertebrate palaeontology. By H. M. Ami.

NOTE: Includes notes on certain areas of Carboniferous rocks in Antigonish county, N.S.

Archæology and ethnology. (List of accessions to the museum.)

[xxvii] Summary report dealing with the field work in connection with the collection of palaeontological material from the Devonian and lower Carboniferous of New Brunswick. By W. J. Wilson.

[xxviii] Summary report of the naturalist. By John Macoun.

NOTE: Includes notes on the preservation of mine timbers.

[xxix] A preliminary report of an ethnological investigation of the Mackenzie delta. By V. Stefánsson.

Distribution branch.

The library.

Publications.

Mapping and engraving. By C. O. Sénécal.

Accountant's statement. By J. Marshall.

Accompanying Maps (published separately from the report):

1068. Sketch map of Sheep Creek mining camp, West Kootenay, B.C., 1910 (dated 1909). Geology. Scale: 1 mile to 1 inch. Sketch contours every 250 feet. See A.

†1074. Sketch map of Sheep Creek mining camp, West Kootenay, B.C. 1909. Topography. Scale: 1 mile to 1 inch. Sketch contours every 250 feet. See A.

NOTE: The above two maps (Nos. 1068 and 1074) illustrate the director's report on the Sheep Creek camp.

1278. Coast and islands between Queen Charlotte sound and Burke channel, British Columbia. 1914 (dated 1913). Scale: 4 miles to 1 inch. See No. iii.

1120. (E) **Summary Report of the Geological Survey branch of the Department**
1122. (F) **of Mines for the calendar year 1909.** Published in English 1910, and French 1913. Ottawa. 8vo. pp., English viii, 307, French x, 389. (Blue-book form.) With 2 sketch maps, plan, and diagrammatic section. By R. W. Brock.

NOTE: See note under No. 761 regarding numbers prefixed to individual reports.

Contains the following reports and an index:

[A] Report of the director, including notes on mining camps along the west coast of British Columbia, and in East and West Kootenay; on some mining districts in the Yukon Territory; Turtle mountain, Frank, Alberta; boring on Prince Edward Island (with logs of the wells, furnished by E. D. Ingall); oil prospects of Alberta; and Kootenay coal in northern Alberta.

[j] The Wheaton River district, Yukon Territory. (See map No. 1229a.) By D. D. Cairnes.

- [ii] The Skeena River district [B.C.]. (See maps No. 1392 and 542d.)
By W. W. Leach.
- [iii] Texada island and Moresby island, B.C. By R. G. McConnell.
- [iv] Southern Vancouver island. By C. H. Clapp.
- [v] Saltspring island, and east coast of Vancouver island. By J. A. Allan.
- Topographic work on Vancouver island. (See maps Nos. 1148 and 1149.) By R. H. Chapman.
- [vi] Tulameen district, British Columbia. By C. Camsell.
- [vii] Beaverdell district, west fork of Kettle river, British Columbia. By L. Reinecke.
- [viii] A reconnaissance on the upper Fraser river between Fort George and Tête Jaune Cache. With sketch map. By G. S. Malloch.
- [ix] Slocan district, British Columbia. By O. E. LeRoy.
- Topographical work in the Slocan district, B.C. By W. H. Boyd.
- [x] Reconnaissance in East Kootenay, B.C. By S. J. Schofield.
- [xi] Coal fields south of the Grand Trunk Pacific railway, in the foothills of the Rocky mountains, Alberta. With sketch map. By D. B. Dowling.
- [xii] Lac Laronge district, Saskatchewan. By W. McInnes.
- [xiii] Simcoe district, Ontario. (See map No. 1199.) By W. A. Johnston.
- Appendix. Report on fossils collected by W. A. Johnston from the supposed Black River and Lowville limestones of the vicinity of lake Couchiching, Ontario. By E. O. Ulrich.
- [xiv] Field studies on the Pleistocene deposits of southwestern Ontario. By F. B. Taylor.
- [xv] The Florence Lake, and Montreal River districts [Ont.]. By W. H. Collins.
- [xvi] Larder lake and eastward [Ont.-Que.]. By M. E. Wilson.
- [xvii] Serpentine belt of southern Quebec. With diagrammatic section. By J. A. Dresser.
- NOTE : This report was reprinted and published as a separate July 27, 1910. See No. 1144.
1144. Summary report on the serpentine belt of southern Quebec. Ottawa. 1910. 8vo. pp. 22. With diagrammatic section. By J. A. Dresser.
- [xviii] Oil-shales of eastern Canada. By R. W. Ells.
- [xix] Bathurst district, New Brunswick. By G. A. Young.
- [xx] Summary report of the work of the late Mr. Hugh Fletcher in northern Cumberland county, Nova Scotia. (See map No. 230.) Compiled from his journal by R. W. Ells.
- NOTE : Includes notes on other localities.
- [xxi] Tungsten deposit of Moose river, Nova Scotia. With plan and section. (See also maps Nos. 634, 1025, and plans Nos. 643, 646, 995.) By E. R. Faribault.
- NOTE : Includes notes on other localities in Nova Scotia.
- [xxii] Southern part of Lunenburg county, Nova Scotia. By E. R. Faribault.
- NOTE : Includes notes by L. M. Lambe on Carboniferous fossils.
- [xxiii] The clay and shale deposits of Nova Scotia, and portions of New Brunswick and Prince Edward Island. By H. Ries.
- [xxiv] Clays and shales in the Maritime Provinces. By J. Keele.
- Water and borings branch. By E. D. Ingall.
- Section of mineralogy. By R. A. A. Johnston.
- Report of special collections made for the Alaska-Yukon-Pacific exposition, Seattle, Washington, U.S.A., June-October, 1909. By R. L. Broadbent.

Arctic exploration. (List of specimens collected by Capt. J. E. Bernier during the cruise of the *Arctic* in 1908-09.) By R. A. A. Johnston.

Archæology and ethnology. (Additions to collections.)

[xxv] Palæontology and zoology. By L. M. Lambe.

NOTE: Includes field-work in New Brunswick and Gaspé, Quebec.

[xxvi] Palæontological material from the Devonian and Carboniferous of southern New Brunswick. By W. J. Wilson.

Natural History branch. By John Macoun.

Mapping and engraving. By C. O. Senécal.

Library. By J. Aléxander.

Publications.

Accountant's statement. By J. Marshall.

1170. (E) **Summary Report of the Geological Survey branch of the Department**
 1176. (F) **of Mines for the calendar year 1910.** Published in English 1911, and French 1912, Ottawa. 8vo. pp., English ix, 314, French x, 315. (Blue-book form.) With map No. 1164 and 10 other illustrations. Maps Nos. 1199, 1232, 1392, were issued separately. By R. W. Brock.

NOTE: See note under No. 761 regarding numbers prefixed to individual reports.

Contains the following reports and an index:

[A] Report of the director, including notes on important mineral discoveries and development during the year; Victoria Memorial Museum; gas near Moncton, N.B.; Porcupine district, Ontario; Turtle mountain, Frank, Alberta; the Hudson Bay route. (Observations made during a trip with His Excellency the Governor General.)

[i] Portions of Atlin district, B.C. With sketch map, plan, and section. By D. D. Cairnes.

[ii] Portland Canal district [B.C.]. With map No. 1164 and a plan. By R. G. McConnell.

Topographic work in the Portland Canal district, northern British Columbia. By G. S. Malloch.

[iii] Skeena River district [B.C.]. See maps Nos. 1392 and 542d, and section No. 542a. By W. W. Leach.

[iv] Geology of the Victoria and Saanich quadrangles, Vancouver island, B.C. By C. H. Clapp.

Topographic work on Vancouver island. (See maps Nos. 1191 and 1193.) By R. H. Chapman.

[v] Parts of the Similkameen and Tulameen districts [B.C.]. By C. Camsell.

[vi] Beaverdell district, west fork of Kettle river, British Columbia. By L. Reinecke.

[vii] Slocan district, British Columbia. By O. E. LeRoy.

Topographical work in the Slocan and Deadwood districts [B.C.]. By W. H. Boyd.

[viii] Reconnaissance in East Kootenay, Cranbrook sheet [B.C.]. By S. J. Schofield.

[ix] Ice River district, British Columbia. By J. A. Allan.

[x] Lake Minnewanka section [near Banff, Alberta]. By H. Shimer.

[xi] Coal fields of Jasper park, Alberta. With 2 illustrations. By D. B. Dowling.

[xii] Saskatchewan River district [Sask.]. By W. McInnes.

[xiii] Clay and shale deposits of western Canada. By H. Ries.

[xiv] Clay resources of the western provinces. By J. Keele.

[xv] Gunflint district [S.W. of Port Arthur], Ontario. By J. D. Trueman.

[xvi] Simcoe district, Ontario. See map No. 1199. By W. A. Johnston.

- [xvii] The Devonian of southwestern Ontario. By C. R. Stauffer.
 [xviii] Montreal River district [Ont.]. By W. H. Collins.
 [xix] Northwestern Quebec adjacent to the Interprovincial boundary and the National Transcontinental railway. By M. E. Wilson.
 [xx] Serpentine belt of southern Quebec. By J. A. Dresser.
 NOTE: Includes notes on natural gas near St. Hyacinthe, Que.
 [xxi] Raised beaches of southern Quebec. By J. W. Goldthwait.
 [xxii] Tobique district, New Brunswick. See map No. 1232. By G. A. Young.
 [xxiii] Arisaig-Antigonish district, Nova Scotia. By M. Y. Williams.
 [xxiv] Goldbearing series of Lahave basin, Lunenburg county, Nova Scotia. By E. R. Faribault.
 [xxv] Water and boring records. By E. D. Ingall.
 [xxvi] Section of mineralogy. With 6 illustrations. By R. A. A. Johnston.

NOTE: Includes description of the new mineral, hexahydrate, and notes on awaruite, almandite, magnetite, axinite, altered amphibole, linarite, and diamond, with analyses.

Palaeontological division. By L. M. Lambe.

[xxvii] Invertebrate palaeontology. By P. E. Raymond.

[xxviii] Palaeontological work in southern New Brunswick. By W. J. Wilson.

NOTE: Includes notes on fossil plants from Nova Scotia as well as from New Brunswick.

Natural History division. By John Macoun.

[xxix] Flora and fauna of west coast of Hudson bay. By J. M. Macoun.

Anthropological division.

[xxx] I. Report of field work, Sept.-Dec., 1910. By E. Sapir.

II. Work among the Arctic Eskimos (Brief notes, and extract from letter, on work of V. Stefánsson).

NOTE: Reprinted in No. 1218b.

Mapping and engraving division. By C. O. Senécal.

Library. By J. Alexander.

Publications.

Accountant's statement. By J. Marshall.

Accompanying Maps:

1164. Sketch map of Portland Canal mining district, British Columbia. (Map 28A.) 1911. Scale: about 2 miles to 1 inch. See No. ii.
 The following topographical map of the area described by W. W. Leach in report No. iii, and in the Summary Reports for 1906, 1907, 1908, and 1909, was published separately in 1914.
 †1392. Hazelton-Aldermere, Cassiar and Coast districts, British Columbia. (Map 136A.) 1914. Topography. Scale: 4 miles to 1 inch.
 The following topographical map of part of the area described by W. A. Johnston in report No. xvi, and in the Summary Reports for 1908 and 1909, was published separately in 1914.
 1199. Orillia sheet, Simcoe and Ontario counties, Ontario. (Map 49A.) 1914. Topography. Scale: about 1 mile to 1 inch.
 NOTE: An advance photographic edition was published in 1911.
 The following topographical map of the area described by G. A. Young in report No. xxii was published separately in 1914.
 1232. Tpbique, Victoria county, New Brunswick. (Map 61A.) 1914 (dated 1913). Topography. Scale: about 2 miles to 1 inch.
 1218. (E) **Summary Report of the Geological Survey branch of the Department**
 1475. (F) **of Mines for the calendar year 1911.** Published in English 1912, and French 1914, Ottawa. 8vo. pp., English x, 412, French xi, 429. (Blue-book form.) With maps Nos. 1219 and 1222, 10 diagrams, and

7 other illustrations. Maps Nos. 1237, 1245, 1246, were issued separately. By R. W. Brock.

NOTE: Through error, the French edition bears the already occupied number "1218". The number "1475" was first given by mistake to a paper by D. B. Dowling (see "Publications", Summary Report, 1915.) See note under No. 761 regarding numbers prefixed to individual reports.

Contains the following reports and an index:

[A] Report of the director, including remarks on the topographical division, with table of classification adopted for maps; Victoria Memorial Museum; 12th International Geological Congress; Turtle Mountain Commission; mining law; and tin and topaz in New Brunswick.

[i] I. Geology of a portion of the Yukon-Alaska boundary between Porcupine and Yukon rivers. With 1 diagram. II. Quartz mining in the Klondike district. By D. D. Cairnes.

NOTE: Contains notes on fossils by P. E. Raymond.

[ii] I. Observatory inlet, British Columbia. With 2 diagrams. II. Salmon River district. III. Portland Canal district. With 1 diagram. By R. G. McConnell.

[iii] Reconnaissance on the upper Skeena river, between Hazelton and the Groundhog coal-field, British Columbia. With 1 diagram. By G. S. Malloch.

[iv] I. Geology of Nanaimo sheet, Nanaimo coal-field, Vancouver island, British Columbia. With map No. 1219. II. Notes on the geology of the Comox and Squash coal fields, Vancouver island. By C. H. Clapp.

[v] I. Fraser canyon and vicinity. II. Geology of a portion of Lillooet mining division, Yale district, British Columbia. III. Geology of Skagit valley, Yale district, B.C. With map No. 1222. IV. Note on the occurrence of diamonds at Tulameen, and Scottie creek near Ashcroft, B.C. By C. Camsell.

[vi] Geology of Fraser canyon and vicinity, B.C. Siwash Creek area. By A. M. Bateman.

[vii] Beaverdell map-area, Yale district, B.C. By L. Reinecke.

[viii] Franklin mining camp, West Kootenay, B.C. With 1 diagram. By C. W. Drysdale.

[ix] Geology of Nelson map-area [B.C.]. With 1 diagram and 6 other illustrations. See map No. 1237. By O. E. LeRoy.

[x] Reconnaissance in East Kootenay. With 1 diagram. By S. J. Schofield.

[xi] Reconnaissance of the Shuswap lakes and vicinity (south-central British Columbia). (See maps Nos. 603, 669, and 1446.) By R. A. Daly.

NOTE: This report was reprinted and published as a separate Sept. 12, 1912. See No. 1218a.

1218a. Summary report on a reconnaissance of the Shuswap lakes and vicinity: south-central British Columbia. Ottawa, 1912. 8vo. pp. 12 (repaged). By R. A. Daly.

[xii] Geology of Field map-area, Yoho park, B.C. With 1 illustration. By J. A. Allan.

[xiii] Cambrian of the Kicking Horse valley, B.C. By C. D. Walcott.

[xiv] Geology of Blairmore map-area, Alberta. By W. W. Leach.

[xv] I. Geology of Roche Miette map-area, Jasper park, Alberta. II. Notes on coal occurrences and the progress of development work in Alberta and Saskatchewan. By D. B. Dowling.

NOTE: Part I includes notes by L. M. Lambe on fossil fish teeth. (See No. 1204b.) An advance photographic edition of the topographical map of the Roche Miette area was published in 1911.

[xvi] I. Report on progress of investigation of clay resources. II. Whiteware materials in Ontario and Quebec, kaolin near Huberdeau, Quebec. By H. Ries.

[xvii] I. Notes on tests of clay samples. II. Report on progress of investigation of clay resources. By J. Keele.

[xviii] The Archæan rocks of Rainy lake [Ont.]. With 1 diagram. By A. C. Lawson.

[xix] Geology of Onaping sheet, Ontario: portion of map-area between West Shiningtree and Onaping lakes. With 1 diagram. By W. H. Collins.

NOTE: An advance-photographic edition of the diagram (West Shiningtree area, Sudbury district, Ontario) was published in 1911.

[xx] Geology of Lake Simcoe area, Ontario, Brechin and Kirkfield sheets. See maps Nos. 1245 and 1246. By W. A. Johnston.

NOTE: Includes lists of fossils from the Ordovician rocks, with notes, by P. E. Raymond.

[xxi] Pleistocene deposits of southwestern Ontario. By F. B. Taylor.

[xxii] The Devonian of southwestern Ontario. By C. R. Stauffer.

[xxxiii] Kewagama Lake map-area, Pontiac and Abitibi, Quebec. By M. E. Wilson.

[xxiv] Certain mica, graphite, and apatite deposits of the Ottawa valley, and an occurrence of *Eozoon canadense*. By J. Stansfield.

[xxv] Geology of Orford map-area, Quebec, southern part of "serpentine belt", Bolton township. By R. Harvie.

NOTE: Includes preliminary report by P. E. Raymond on Silurian fossils from Knowlton Landing, lake Memphremagog.

[xxvi] Belcœil and Rougemont mountains, Quebec. By J. J. O'Neill.

[xxvii] Records of post-glacial changes of level in Quebec and New Brunswick. By J. W. Goldthwait.

[xxviii] Placer gold on Meule creek, Seigniorie of Rigaud-Vaudreuil, Quebec. By J. Keele.

[xxix] Geology of the Moncton map-area, Westmorland and Albert counties, New Brunswick. By G. A. Young.

[xxx] Gypsum of New Brunswick. By H. E. Kramm.

NOTE: Includes some Nova Scotia occurrences.

[xxxi] Joggins Carboniferous section of Nova Scotia. By W. A. Bell.

[xxxii] Goldbearing series of the basin of Medway river, Nova Scotia. By E. R. Faribault.

[xxxiii] Lahave valley and Starrs point, Nova Scotia. By W. J. Wright.

[xxxiv] Bore-hole records. (Water, oil, etc.) By E. D. Ingall.

[xxxv] Palæontological division.

I. Vertebrates. By L. M. Lambe.

II. Invertebrate. By P. E. Raymond.

III. Palæobotany. By W. J. Wilson.

NOTE: No. II includes notes on field-work in the Ottawa valley and Quebec city and vicinity. No. III includes notes on fossil plants from Groundhog coal basin and vicinity, B.C., Jasper park, Alberta, and Dirt hills, Saskatchewan.

[xxxvi] Mineralogical division. By R. A. A. Johnston.

NOTE: Includes notes on diamond from British Columbia and topaz from New Brunswick.

Topographical division. (W. H. Boyd.)

Part I. Field work.

Blairmore map-area [Alberta]. By W. H. Boyd.

(a) Alberni sheet, Vancouver island. By R. H. Chapman.

(b) Cowichan sheet, Vancouver island. By K. G. Chipman.

NOTE: A very limited number of special advance photographic copies have been issued by the topographical division. Scale: 4 miles to 1 inch.

(c) Triangulation work. By S. C. McLean.

Moncton triangulation.

Columbia-Kootenay triangulation.

- (d) Slocan map-area, British Columbia. By A. C. T. Sheppard.
NOTE: A very limited number of special advance photographic copies of the eastern and western sheets of the map have been issued by the topographical division. Scale about $\frac{1}{2}$ mile to 1 inch.
- (e) Moncton map-area, New Brunswick. See map No. 1238.
By W. E. Lawson.
- [xxxvii] Part II. Spirit levelling near Moncton, N.B., 1911. [A. G. Haultain.]
- Natural History division.
I. Work of the division. By John Macoun.
II. Zoological section. By P. A. Taverner.
- Anthropological division.
[xxxviii] Part I. Ethnology. (E. Sapir.)
General report on museum and field work. By E. Sapir.
[aa] Work in Iroquois and Algonkin reservations of Ontario and Quebec, 1911. By E. Sapir.
(a) On Huron work, 1911. By C. M. Barbeau.
(b) On Iroquois work, 1911. By A. A. Goldenweiser.
(c) On Micmac work, 1911. By C. MacMillan.
(d) On Micmac and Malecite work, 1911. By W. H. Mechling.
(e) Work among the Arctic Eskimos. By V. Stefánsson.
- Part II. Archæology. By H. I. Smith.
NOTE: The above reports, together with those of the anthropological division in the Summary Report for 1910, were reprinted and published as a separate, in English only, Oct. 29, 1912. See No. 1218b.
- 1218b. Summary report of the anthropological division for the calendar years 1910 and 1911. Ottawa, 1912. 8vo. pp. 18. Ethnology: E. Sapir and others. Archæology: H. I. Smith.
Mapping and engraving division. By C. O. Sénécal.
Library. By J. Alexander.
Publications.
Accountant's statement. By J. Marshall.
1219. *Accompanying Maps:*
Nanaimo coal area, Vancouver island, British Columbia. (Map 54A.) 1912. Economic geology. Scale: $1\frac{1}{2}$ miles to 1 inch. See No. iv.
1222. Skagit valley, Yale district, British Columbia. (Map 56A.) 1912. Areal geology. Scale: 1 mile to 1 inch. See No. v.
The following map, published separately, illustrates O. E. LeRoy's report (No. ix). Intended to accompany a memoir (not yet issued) to which the number "34" was assigned, as printed on the map. - This number was later given to the memoir by C. R. Stauffer (No. 1248).
1237. Nelson and vicinity, West Kootenay, British Columbia. (Map 62A.) 1913 (dated 1912). Geology. Scale: 1 mile to 1 inch.
The two following maps, issued separately in 1916, cover areas described in report by W. A. Johnston, (No. xx). The Brechin sheet erroneously bears the number "1235."
1245. Brechin sheet, Ontario and Victoria counties, Ontario. (Map 66A.) 1916. [Topography.] Scale: about 1 mile to 1 inch.
1246. Kirkfield sheet, Victoria county, Ontario. (Map 67A.) 1916. [Topography.] Scale: about 1 mile to 1 inch.
The following map, issued separately, is the result of the work of W. E. Lawson and S. C. McLean in 1911 (see report of topographical division above):
1238. Moncton. Westmorland and Albert counties, New Brunswick. (Map 63A.) 1917. Topography. Scale: about 1 mile to 1 inch.
1305. (E) **Summary Report of the Geological Survey, Department of Mines,**
1306. (F) **for the calendar year 1912.** Published in English 1914, and French 1915, Ottawa. 8vo. pp., English ix, 544, French ix, 529. (Blue-book form.) With maps Nos. 1284, 1285, 1287, 1295, 1298, 1300, 1303,

1304, 1307, diagrams Nos. 1296, 1297, and 12 other illustrations. By R. W. Bröck.

NOTE: See note under No. 761 regarding numbers prefixed to individual reports.

Contains report of the director, the following officers' reports, and an index:

[i] Geology of a portion of the Yukon-Alaska boundary, between Porcupine and Yukon rivers. By D. D. Cairnes.

[ii] A geological reconnaissance on Graham island, Queen Charlotte group, B.C. With diagram No. 1296 and 3 other illustrations. By C. H. Clapp.

[iii] Geology of portions of the Sooke and Duncan map-areas, Vancouver island, British Columbia. By C. H. Clapp.

[iv] Geological section along the Grand Trunk Pacific railway from Prince Rupert to Aldermere, B.C. By R. G. McConnell.

[v] Princess Royal island, B.C. With diagram No. 1297. By R. G. McConnell.

[vi] Texada island, B.C. By R. G. McConnell.

[vii] The Groundhog coal field, B.C. With map No. 1304. By G. S. Malloch.

[viii] Metalliferous deposits in the vicinity of Hazelton, B.C. By G. S. Malloch.

[ix] A geological reconnaissance of the Fraser River valley from Lytton to Vancouver, British Columbia. By N. L. Bowen.

[x] Geology of the Thompson River valley below Kamloops lake, B.C. With map No. 1303. By C. W. Drysdale.

NOTE: This report was published as a separate, in English only, without repaging and without the map. See No. 1305a.

*1305a.

Geology of the Thompson River valley below Kamloops lake, B.C. (From the Summary Report of the Geological Survey, Canada, for the year 1912.) [Ottawa, 1914.] pp. 36. By C. W. Drysdale.

[xi] Savona map-area, British Columbia. By B. Rose.

[xii] Geology of the Selkirk and Purcell mountains at the Canadian Pacific railway (main line). By R. A. Daly.

[xiii] Rocky Mountain section between Banff, Alta., and Golden, B.C., along the Canadian Pacific railway. By J. A. Allan.

[xiv] Exploration between Lillooet and Chilko lake, British Columbia. With 1 illustration. By A. M. Bateman.

[xv] Lillooet map-area, British Columbia. With map No. 1287. By A. M. Bateman.

[xvi] The geology of certain portions of Yale district, B.C. By C. Camsell.

[xvii] Reconnaissance in East Kootenay, British Columbia. With map No. 1298. By S. J. Schofield.

[xviii] Clay investigations in western Canada. By H. Ries.

[xix] Blairmore map-area, Alberta. (Short note regarding the mapping of this area by W. W. Leach.) With map No. 1307.

[xx] South Fork coal area, Oldman river, Alberta. With map No. 1295. By J. D. MacKenzie.

[xxi] The Silurian and Devonian section of western Manitoba. By E. M. Kindle.

[xxii] Region east of the south end of lake Winnipeg. With map No. 1285. By E. S. Moore.

[xxiii] Notes concerning the features of St. Joseph island, lake Huron, Ontario. With 1 illustration. By F. Leverett.

[xxiv] The Silurian of Manitoulin island and western Ontario. By M. Y. Williams.

NOTE: Includes notes on zinc prospects near Warton, Ont.

- [xxv] Thedford and vicinity, Ontario. By M. Y. Williams.
- [xxvi] Notes on the Oriskany sandstone and the Ohio shale of the Ontario peninsula. With 1 illustration. By E. M. Kindle.
- [xxvii] Stratigraphy of southwestern Ontario. By C. R. Stauffer.
- [xxviii] Geology of Lake Simcoe area, Ontario: Beaverton, Sutton, and Barrie sheets. By W. A. Johnston.
- [xxix] Geology of Onaping sheet, Ontario. With 1 illustration. By W. H. Collins.
- [xxx] A geological reconnaissance from lake Kipawa via Grand Lake Victoria to Kanikawinika island, Bell river, Quebec. With map No. 1300 and 1 illustration. By M. E. Wilson.
- [xxxi] An exploration of the headwaters of the Broadback or Little Nottaway river, northwestern Quebec. With map No. 1284. By H. C. Cooke.
- [xxxii] The Trenton group in Ontario and Quebec. By P. E. Raymond.
- [xxxiii] Investigation of clay resources of Quebec. By J. Keele.
- [xxxiv] Marine shore-lines in southeastern Quebec. By J. W. Goldthwait.
- [xxxv] Joggins Carboniferous section, Nova Scotia. By W. A. Bell.
- [xxxvi] Greenfield and Liverpool Town map-areas, Nova Scotia. By E. R. Faribault.
- [xxxvii] Oldham gold district, Nova Scotia. See map No. 1005 and plan No. 642. By E. R. Faribault.
- [xxxviii] Clays in Lunenburg county, Nova Scotia. By E. R. Faribault.
- [xxxix] Geology of the neighbourhood of New Ross, Lunenburg county, Nova Scotia. By W. J. Wright.
- [xl] The stratigraphic relations of the Riversdale-Union and Windsor formations of Nova Scotia. By J. E. Hyde.
- [xli] Report of the vertebrate palaeontologist. With 3 illustrations. By L. M. Lambe.
- NOTE: Includes field-work of C. H. Sternberg collecting dinosaurian remains on Red Deer river, Alberta.
- Report of the invertebrate palaeontologist. By E. M. Kindle.
- [xlii] Palaeobotany. By W. J. Wilson.
- NOTE: Includes notes on fossil plants from Kennebecasis island, N.B., Pimainus hills, B.C., Groundhog coal basin, B.C., Bellevue and Blairmore, Alberta, and Coal creek, Yukon.
- Mineralogy. By R. A. A. Johnston.
- [xliii] Borehole records. (Water, oil, etc.) By E. D. Ingall.
- Topographical division. (W. H. Boyd.)
- Part I.
- Introduction. By W. H. Boyd.
- Lillooet map-area, British Columbia. By W. E. Lawson.
- Windermere map-area. By K. G. Chipman.
- St. John map-sheet. New Brunswick. By A. C. T. Sheppard.
- Triangulation work. By S. C. McLean.
- St. John triangulation.
- Columbia-Kootenay triangulation.
- Flathead triangulation.
- Blairmore map-area, Alberta. By B. R. MacKay.
- NOTE: A very limited number of special advance photographic copies of the northern portion have been issued by the topographical division. Scale: about $\frac{1}{2}$ mile to 1 inch.
- Texada Island map-area, British Columbia. By D. A. Nichols.
- Part II.
- [xliv] Spirit levelling, St. John sheet, New Brunswick. [F. S. Falconer.]
- Part III.
- [xlv] Flathead triangulation, British Columbia and Alberta. Geo

graphic positions and descriptions of stations. With 1 illustration.
By S. C. McLean.

NOTE: All the above reports of the topographical division (Parts I, II, and III) were also published together as a separate, in English only, without repaging. See No. 1305b.

- 1305b. Reports from topographical division. (From the Summary-Report of the Geological Survey, Canada, for the calendar year 1912). [Ottawa, 1914.] 8vo. pp. 20. With 1 illustration.
- Biological division.
[xlv] Botany. By John Macoun.
NOTE: Includes report by J. M. Macoun on plants collected by D. D. Cairnes on the 141st meridian in 1912.
Zoology. By P. A. Taverner.
- Anthropological division. (E. Sapir.)
Part I. Ethnology and linguistics. (E. Sapir.)
Summary report: museum, field-work and research. By E. Sapir.
On Iroquoian field-work, 1912. By C. M. Barbeau.
On Interior Salish work, 1912. By C. M. Barbeau.
[xlvii] On Iroquois work, 1912. By A. A. Goldenweiser.
[xlviii] On work in material culture of the Iroquois, 1912. By F. W. Waugh.
On Malecite and Micmac work, 1912. By W. H. Mechling.
[xlix] On Ojibwa work in southeastern Ontario, 1912. By P. Radin.
[l] On Tahltan (Athabaskan) work, 1912. By J. A. Teit.
[li] On Eskimo work, 1908-12. By V. Stefánsson.
- Part II. Archæology. (H. I. Smith.)
Summary report: field-work and accessions. By H. I. Smith.
[lii] On archæological work in Ontario and Quebec. By W. J. Wintemberg.
[liii] On an archæological reconnaissance of Manitoba. By W. B. Nickerson.
- Part III. Physical anthropology. (E. Sapir.)
Summary report: field-work and accessions. By E. Sapir.
NOTE: All the above reports of the anthropological division (Parts I, II, and III) were also published together as a separate, in English only, without repaging. See No. 1305c.
- †1305c. Reports from anthropological division. (From the Summary Report of the Geological Survey, Canada, for the year 1912). [Ottawa, 1914.] 8vo. pp. 59.
- Draughting division. By C. O. Senécal.
Library. By M. Calhoun.
Publications.
Accountant's statement. By J. Marshall.
- Accompanying Maps and Diagrams:*
1296. Diagram showing the geology of Graham island, Queen Charlotte islands, British Columbia. 1913. Scale: 16 miles to 1 inch. See No. ii.
1297. Workings on the property of Surf Inlet Gold Mines Co., Ltd., Princess Royal island, British Columbia. 1913. [A geological diagram.] Scale: 60 feet to 1 inch. See No. v.
1304. Groundhog coal field, British Columbia. (Map 106A.) 1913. Scale: 4 miles to 1 inch. See No. vii.
1303. Thompson River valley below Kamloops lake, British Columbia. (Map 104A.) 1913. Scale: 4 miles to 1 inch. See No. x.
1287. Cadwallader Creek mining area, Lillooet mining division, B.C. (Map 105A.) 1913. Scale: 2,000 feet to 1 inch. See No. xv.
1298. Southern portion of Cranbrook map-area, East and West Kootenay, British Columbia. (Map 99A.) 1913 (published 1914). Scale: 4 miles to 1 inch. See No. xvii.

1307. Blairmore, Alberta. (Map 107A.) 1913. Scale: 2 miles to 1 inch.
See No. xix.
- NOTE: Preliminary map. See also map No. 1377.
1295. Southfork coal area, Old Man river, Alberta. (Map 103A.) 1913. Scale:
3 miles to 1 inch. See No. xx.
1285. Wanipigow, Manigotagan, and Oiseau rivers, Manitoba. (Map 96A.)
1913. Scale: 4 miles to 1 inch. See No. xxii.
1300. Bell river, Quebec. (Map 100A.) 1913. Scale: 8 miles to 1 inch.
See No. xxx.
1284. Broadback river, Mistassini territory, Quebec. (Map 95A.) 1913. Scale:
10 miles to 1 inch. See No. xxxi.
1359. (E) **Summary Report of the Geological Survey, Department of Mines,**
1360. (F) **for the calendar year 1913.** Published in English 1915 (dated 1914),
and French 1915, Ottawa. 8vo. pp., English viii, 417, French viii, 399.
(Blue-book form.) With maps Nos. 1350, 1351, 1353, 1356, plans Nos.
1339, 1352, 1365, diagrams Nos. 1349, 1436, and 6 other illustrations.
By R. W. Brock.
- NOTE: See note under No. 761 regarding numbers prefixed to
individual reports.
- Contains the following reports and an index:
- [A] Report of the director, including notes on the 12th International
Geological Congress and the Canadian Arctic Expedition.
- [i] Upper White River district, Yukon. With 1 illustration. By D.
D. Cairnes.
- [ii] Rainy Hollow mineral area, B.C. With diagram No. 1349. By
R. G. McConnell.
- [iii] South-central Graham island, B.C. By J. D. MacKenzie.
- [iv] Recent development at the Hidden Creek mine, Observatory
inlet, B.C. With plan No. 1365. By R. G. McConnell.
- [v] The lime belt, Quadra (South Valdes) island, B.C. With map No.
1351. By D. D. Cairnes.
- [vi] Britannia mine, Howe sound, B.C. By R. G. McConnell.
- NOTE: Also printed in separate form as an appendix to Guide Book
No. 8, but not issued with Geological Survey special edition.
- [vii] Sharp Point hot spring, Vancouver island, B.C. By C. H. Clapp.
- [viii] Geology of a portion of the Duncan map-area, Vancouver island,
B.C. By C. H. Clapp and H. C. Cooke.
- [ix] Geology of the Sooke special map-area, Vancouver island, B.C.
By H. C. Cooke.
- [x] The geology of the alunite and pyrophyllite rocks of Kyuquot
sound, Vancouver island. With diagram No. 1436. By C. H. Clapp.
- [xi] Notes on mining developments in Similkameen district, B.C., and
on a reported occurrence of oil at Kelowna, B.C. By C. Camsell.
- [xii] Rossland mining camp, B.C. By C. W. Drysdale.
- [xiii] Reconnaissance in East Kootenay, B.C. With 1 illustration.
By S. J. Schofield.
- NOTE: Includes "A preliminary report by Mr. Arthur Hollick
(misprinted "Hollock") of the New York Botanical Garden, upon
the plants from the Pleistocene deposits."
- [xiv] Coal areas in Flathead valley, B.C. With 1 illustration. By
D. B. Dowling.
- [xv] Geological notes on the Sheep River gas and oil field, Alberta.
By D. B. Dowling.
- [xvi] North Saskatchewan River coal areas, Alberta. By D. B. Dowling.
- [xvii] Willowbunch coal area. With map No. 1350. By B. Rose.
- [xviii] Gypsum and salt in Manitoba. By A. MacLean and R. C.
Wallace.

- [xix] The calcareous drift and lacustrine deposits in Rainy River district, Ontario. By W. A. Johnston.
- [xx] Stratigraphy of the Niagara escarpment of southwestern Ontario. With 2 illustrations. By M. Y. Williams.
- [xxi] Geology of a portion of Sudbury map-area, south of Wanapitei lake, Ontario. With map No. 1356. By W. H. Collins.
- [xxii] Southeastern portion of Buckingham map-area, Quebec. By M. E. Wilson.
- [xxiii] The drift on the island of Montreal. By J. Stansfield.
- [xxiv] Marine submergence at Montreal, Covey Hill, and Rigaud mountain: [Que.]. By J. W. Goldthwait.
- [xxv] Geology of Orford map-area, and the southern part of the "serpentine belt," Potton township, Quebec. By R. Harvie.
- [xxvi] Granites of the Eastern Townships of Quebec. By A. Mailhot.
- [xxvii] The succession of faunas at Lévis, Quebec. By P. E. Raymond.
- [xxviii] Geology of the Moncton map-area, New Brunswick. With 1 illustration. By W. J. Wright.
- [xxix] Geology of the St. John map-area, New Brunswick. By A. O. Hayes.
- [xxx] Physiography and surficial geology of Nova Scotia. By J. W. Goldthwait.
NOTE: Includes notes on the glaciation of the Magdalen islands, Québec.
- [xxxi] Geology of the Port Mouton map-area, Queens county, Nova Scotia. By E. R. Faribault.
- [xxxii] Geology of the gold district of Pleasant River barrens, Lunenburg county, N.S. With plan No. 1339. By E. R. Faribault.
- [xxxiii] The Windsor-Pennsylvanian section on the strait of Canso, Nova Scotia. By J. E. Hyde.
- [xxxiv] Geology of Clyburn valley, Cape Breton [N.S.]. With map No. 1353 and plan No. 1352. By W. J. Wright.
- [xxxv] Clays of British Columbia and Alberta. By H. Ries.
- [xxxvi] Report on progress of investigation of clay resources. By J. Keele.
- [xxxvii] Report of the vertebrate palæontologist. By L. M. Lambe.
NOTE: Includes field-work by C. H. Sternberg collecting dinosaurian remains on Red Deer river, Alberta, and field-work at south fork of Oldman river, Exshaw, and Red Deer river, Alberta, by L. M. Lambe.
- [xxxviii] Report of the invertebrate palæontologist. By E. M. Kindle.
NOTE: Includes field-work in Ontario, Quebec, and Manitoba, and reports on fossils from Yukon-Alaska boundary, British Columbia, Alberta, Manitoba, Quebec, and New Brunswick.
- [xxxix] Report (palæontological). By L. D. Burling.
NOTE: Includes field-work in Quebec, New Brunswick, Nova Scotia, Yukon Territory, and British Columbia, and on collections of fossils from the Alaska-Yukon boundary and Queen Charlotte islands, B.C.
- [xl] Palæobotany. By W. J. Wilson.
NOTE: Includes notes on collections of fossil plants from New Brunswick, Saskatchewan, Alberta, and British Columbia.
- [xli] Mineralogy. By R. A. A. Johnston.
NOTE: Includes notes on specimens of eosphorite, struvite, ullmannite, apatite, axinite, garnet, vesuvianite, quartz, and opal from Canadian localities.

[xlii] Borehole records (water, oil, etc.). By E. D. Ingall.

Topographical division. (W. H. Boyd.)

Part I.

Introduction. By W. H. Boyd.

White River map-area, Yukon Territory. By W. E. Lawson.

East Sooke and Flathead coal basin map-areas [B.C.]. By F. S. Falconer.

Bridge River map-area, British Columbia. By E. E. Freeland.

NOTE: A limited number of special photographic copies of the

manuscript map have been issued by the topographical division.

Scale: about $1\frac{1}{2}$ miles to 1 inch.

Windermere map-area, B.C. By A. G. Haultain.

NOTE: A limited number of special photographic copies of the

manuscript map have been issued by the topographical division.

Scale: about $1\frac{1}{2}$ miles to 1 inch.

Crowsnest sheet, British Columbia and Alberta. By A. C. T. Sheppard.

Thetford and Black Lake map-area, Quebec. By D. A. Nichols.

NOTE: A limited number of special photographic copies of the

detailed map of the area adjacent to the asbestos mines at Thetford

Mines, Que., were issued by the topographical division. Scale:

1,000 feet to 1 inch.

New Glasgow map-area, Nova Scotia. By B. R. MacKay.

Triangulation work. By S. C. McLean.

New Glasgow [N.S.] triangulation.

Thetford [Que.] triangulation.

Similkameen district [B.C.]

Part II.

[xliii] Spirit levelling near New Glasgow, N.S. By B. R. MacKay.

NOTE: All the above reports of the topographical division

(Parts I and II) were also published together as a separate, in

English only, without repaging. See No. 1359a.

†1359a.

Reports from topographical division. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1913). [Ottawa, 1915.] 8vo. pp. 11.

Biological division.

Botany. By John Macoun.

[xliv] Botany. By J. M. Macoun.

Zoology. By P. A. Taverner.

Anthropological division. (E. Sapir.)

Part I. Ethnology and linguistics. (E. Sapir.)

Summary report: museum, field-work, and research. By E. Sapir.

On Iroquois work, 1913. By F. W. Waugh.

[xlv] On Iroquois work, 1913-1914. By A. A. Goldenweiser.

On Malecite and Micmac work, 1913. By W. H. Mechling.

On Ojibwa work, 1913. By P. Radin.

[xlvii] On work among northern Athabaskan tribes, 1913. By J. A. Mason.

Anthropology in the Canadian Arctic Expedition. By E. Sapir.

Part II. Archæology. (H. I. Smith.)

[xlviii] Summary report: museum, research, and field-work. By H. I. Smith.

[xlviii] On archæological work on the Atlantic coast, 1913. By W. J. Wintemberg.

[xlix] On archæological research in the valley of the Souris river, southwestern Manitoba, 1913. By W. B. Nickerson.

Part III. Physical anthropology. (E. Sapir.)

Note, and list of accessions. By E. Sapir.

NOTE: All the above reports of the anthropological division

(Parts I, II, and III) were also published together as a separate,

in English only, without repaging. See No. 1359b.

†1359b.

Reports from anthropological division. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1913). [Ottawa, 1915.] 8vo. pp. 35.

Draughting division. By C. O. Senécal.

Library. By M. Calhoun.

Publications.

Accountant's statement. By J. Marshall.

Accompanying Maps, Plans, and Diagrams:

1349. Diagram showing the geology of Rainy Hollow, Atlin mining district, B.C. 1914. Scale: 2 miles to 1 inch. See No. ii.
1365. Plan of 530-foot level, Hidden Creek mine, Granby bay, British Columbia. 1914. Scale: 240 feet to 1 inch. See No. iv.
1351. Quadra island, British Columbia. (Map 120A.) 1914. Scale: 4 miles to 1 inch. See No. v.
1436. Diagram showing the geology of peninsula between Kokshittle arm and Easy creek, Kyuquot sound, B.C. 1914. Scale: about 2,000 feet to 1 inch. See No. x.
1350. Willowbunch coal area, Saskatchewan. (Map 119A.) 1914. Scale: 4 miles to 1 inch. See No. xvii.
1356. Wanapitei (Falconbridge, Street, Dryden, Awrey, and parts of Maclellan and Scadding townships), Sudbury district, Ontario. (Map 124A.) 1914. Scale: 1 mile to 1 inch. See No. xxi.
1339. Pleasant River Barrens gold district, Lunenburg county, Nova Scotia. Structural plan. (Map 118A.) 1915 (dated 1914). Scale: 500 feet to 1 inch. See No. xxxii.
1352. Underground workings, Franey mine, Victoria county, Nova Scotia. 1914. Scale: about 16 feet to 1 inch. See No. xxxiv.
1353. Franey mine and vicinity, Victoria county, N.S. (Map 121A.) 1914. Scale: 1,500 feet to 1 inch. See No. xxxiv.

1503. (E) **Summary Report of the Geological Survey, Department of Mines, for the calendar year 1914.** Published in English 1915 (dated 1914), and French 1916. Ottawa. 8vo. pp., English viii, 201, French 206. (Blue-book form.) With map No. 1338, diagrams 1491, 1494, and 1 other illustration. By R. G. McConnell.

1504. (F)

NOTE: See note under No. 761 regarding numbers prefixed to individual reports.

Contains report of the director, the following officers' reports, and an index:

[i] Exploration in southwestern Yukon. With diagram No. 1491. By D. D. Cairnes.

[ii] Graham island, British Columbia. By J. D. MacKenzie.

[iii] Ymir mining camp, West Kootenay district, British Columbia. By C. W. Drysdale.

[iv] Ainsworth mining camp, British Columbia. With 1 illustration. By S. J. Schofield.

[v] Reconnaissance in West Kootenay. By S. J. Schofield.

[vi] Flathead special map-area, British Columbia. By J. D. MacKenzie.

[vii] Rocky Mountains park, Alberta. By J. A. Allan.

[viii] Southern Alberta. With diagram No. 1494. By D. B. Dowling.

[ix] Reconnaissance along the Red Deer, James, Clearwater, and North Saskatchewan rivers, Alberta. By B. Rose.

[x] The Sheep River map-area, Alberta. By S. E. Slipper.

[xi] The foothills area, west of the Porcupine hills, Alberta. By J. S. Stewart.

[xii] An exploration of the region between Athabaska and Great Slave lakes, Alberta and Northwest Territories. By C. Camsell.

[xiii] Geology of the north shore of lake Athabaska, Alberta and Saskatchewan. By F. J. Alcock.

[xiv] The Cretaceous sections on the Crowsnest river, west of the Blairmore sheet, Alberta. By F. H. McLearn.

- [xv] Wood Mountain coal area, Saskatchewan. With map No. 1338. By B. Rose.
- [xvi] Amisk Lake district, northern Saskatchewan and Manitoba. By E. L. Bruce.
- [xvii] Pembina mountain, Manitoba. By A. MacLean.
- [xviii] Notes on the cores of Winnipeg wells, Manitoba. By F. H. McLearn.
- [xix] Gypsum and brines in Manitoba. By R. C. Wallace.
- Lake Simcoe and Rainy River districts, Ontario. By W. A. Johnston.
- [xx] A reconnaissance of the north shore of lake Huron. By W. H. Collins.
- [xxi] The middle and upper Silurian of southwestern Ontario. By M. Y. Williams.
- [xxii] Investigation of the clay resources of Ontario. By J. Keele.
- [xxiii] Road materials in Ontario. By L. Reinecke.
- [xxiv] Investigation of the occurrence of radio-active minerals in Ontario. By S. Brunton.
- [xxv] Northern portion of Buckingham map-area, Quebec. By M. E. Wilson.
- [xxvi] The basins of the Nottaway and Broadback rivers, northwestern Quebec. By H. C. Cooke.
- [xxvii] The Harricanaw basin north of the Grand Trunk Pacific railway, Quebec. By T. L. Tanton.
- [xxviii] Brome and Missisquoi counties, Quebec. By R. Harvie.
- [xxix] Granites of the Eastern Townships, Quebec. By A. Mailhot.
- [xxx] St. John map-area, New Brunswick. By A. O. Hayes.
- [xxxi] Moncton map-area, New Brunswick. By W. J. Wright.
- Physiography and surface geology of Nova Scotia. By J. W. Goldthwait.
- [xxxii] Caledonia map-area, Queens county, Nova Scotia. By E. R. Faribault.
- [xxxiii] The Horton-Windsor Carboniferous area, Nova Scotia. By W. A. Bell.
- [xxxiv] Windsor and Pennsylvanian formations in Nova Scotia. By J. E. Hyde.
- [xxxv] An investigation of radio-active minerals in eastern Canada. By C. W. Robinson.
- [xxxvi] Canadian Arctic Expedition, 1914. Geological reconnaissance of the Arctic coast between Demarcation point and the Mackenzie river; with a section inland up the Firth river, Mackenzie district. By J. J. O'Neill.
- [xxxvii] Report of the vertebrate palaeontologist. By L. M. Lambe.
NOTE: Includes field-work of C. H. Sternberg on Red Deer river, Alberta, and Cypress hills, Saskatchewan.
- [xxxviii] Report of the stratigraphical palaeontologist. By E. M. Kindle.
NOTE: Includes field-work, and reports on fossils from British Columbia and Saskatchewan.
- [xxxix] Palaeobotany. By W. J. Wilson.
NOTE: Includes notes by D. White on fossil plants from Parrsboro inlet, Nova Scotia, and by W. J. Wilson on collections from Alberta, New Brunswick, and Nova Scotia.
- Mineralogy. By R. A. A. Johnston.
- [xl] Water and borings division. By E. D. Ingall.
- [xli] Calgary gas and oil field. By S. E. Slipper.
- Topographical division. (W. H. Boyd.)
Rainy Hollow map-area, British Columbia. W. E. Lawson.

Revelstoke sheet and Ainsworth map-area, British Columbia. F. S. Falconer.

NOTE: A limited number of special photographic copies of the manuscript map of Ainsworth, B.C., have been issued by the topographical division. Scale: 2,000 feet to 1 inch.

Flathead and Crownsnest sheets, British Columbia and Alberta. A. C. T. Sheppard.

NOTE: A limited number of special photographic copies of the manuscript map of the Flathead sheet were issued by the topographical division. Scale: about $\frac{1}{2}$ mile to 1 inch.

Sheep River map-area, Alberta. E. E. Freeland.

Athabaska lake, Alberta and Saskatchewan. A. G. Haultain.

Thetford and Black Lake map-area, Quebec. D. A. Nichols.

New Glasgow map-area, Nova Scotia. B. R. MacKay.

Traverse control and triangulation. (Queens county, N.S., and Similkameen and Osoyoos districts, B.C.) S. C. McLean.

Sudbury reconnaissance. W. H. Boyd.

Canadian Arctic Expedition. (Report of K. G. Chipman, geographer.)

Biological division.

Botany. By John Macoun.

Botany. By J. M. Macoun.

Zoology. (P. A. Taverner.)

Summary report. By P. A. Taverner.

Chaleur Bay field work, 1914. By P. A. Taverner.

[xlii] The Athabaska-Great Slave Lake expedition, 1914. By F. Harper.

Canadian Arctic Expedition, 1913-14. By R. M. Anderson.

NOTE: Includes preliminary list, by P. A. Taverner, of specimens collected.

Entomology. By C. G. Hewitt.

Canadian Arctic Expedition. By F. Johansen.

NOTE: All the above reports under the headings Zoology, Entomology, and Canadian Arctic Expedition, were published together as a separate, in English only, repaged. See No. 1557.

1557. Biological division. Zoology. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1914). [Ottawa, July 8, 1915.] 8vo. pp. 15.

Division of anthropology.

Part I. Ethnology and linguistics. By E. Sapir.

[xliii] Part II. Archæology. By H. I. Smith.

Part III. Physical anthropology. By F. H. S. Knowles.

Geographical and draughting division. By C. O. Senécal.

Library. By M. Calhoun.

Publications. By M. Sauvalle.

Accountant's statement. By J. Marshall.

Accompanying Map and Diagrams:

- †1491. Diagram of southwestern portion of Yukon Territory. 1915. Scale: 20 miles to 1 inch. See No. i.

1494. Perspective diagram and structure sections, foot-hills, southern Alberta. 1915. See No. viii.

1338. Wood Mountain coal area, Saskatchewan. (Map 117A.) 1915. Scale: 4 miles to 1 inch. See No. xv.

1616. (E) Summary Report of the Geological Survey, Department of Mines,
1617. (F) for the calendar year 1915. Published in English 1916, and French 1917, Ottawa. 8vo. pp., English viii, 307, French viii, 289. (Blue-book form.) With maps Nos. 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 3 other illustrations, and 3 folding sheets. By R. G. McConnell.

NOTE: See note under No. 761, regarding numbers prefixed to the individual reports.

Contains report of the director, the following officers' reports, and an index:

[i] Mayo area.—Scroggie, Barker, Thistle, and Kirkman creeks.

Wheaton district: Yukon Territory. With 2 illustrations. By D. D. Cairnes.

NOTE: The portion of the above report, pp. 36-49, relating to the Wheaton district, was published, without repaging, as a separate, in English only, with map No. 1230 (not issued with Summary Report), forming a supplement to Memoir 31 (No. 1228). See No. 1620.

1620. Wheaton district, southern Yukon. Supplement to Memoir 31. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1915). Ottawa, 1916. 8vo. pp. 14. With map No. 1230 and 1 other illustration. By D. D. Cairnes.
- [ii] Hydromagnesian deposits of Atlin, B.C. With 1 illustration. By G. A. Young.
- [iii] Telkwa valley and vicinity, British Columbia. With diagrams Nos. 1608 and 1605. By J. D. MacKenzie.
- [iv] Exploration in the northern interior of British Columbia. With diagram No. 1607. By C. Camsell.
- [v] Bridge River map-area, Lillooet mining division.—Highland Valley copper camp, Ashcroft mining division.—Human skeleton from silt bed near Savona; British Columbia. With diagrams Nos. 1610 and 1611. By C. W. Drysdale.
- NOTE: See also No. xxxix.
- [vi] Iron industry.—Slocan area and Grenville mountain, British Columbia. By O. E. LeRoy.
- [vii] Kootenay district, British Columbia. By S. J. Schofield.
- [viii] District east of Kootenay lake. By M. F. Bancroft.
- [ix] Notes on the stratigraphy of the Rocky mountains, Alberta and British Columbia. By L. D. Burling.
- [x] Simpson pass to Kananaskis, Rocky Mountains park, Alberta. By J. A. Allan.
- [xi] Water supply, southeastern Alberta. With map No. 1064. By D. B. Dowling.
- [xii] Blairmore map-area. By B. Rose.
- [xiii] Jurassic and Cretaceous, Crowsnest pass, Alberta. By F. H. McLearn.
- [xiv] The disturbed belt of southwestern Alberta. By J. S. Stewart.
- [xv] Boring operations in southern Alberta. By S. E. Slipper.
- [xvi] Reported occurrence of silver in the neighbourhood of Fond du Lac, lake Athabaska, Saskatchewan. By C. Camsell.
- [xvii] Amisk-Athapapuskow Lake area, northern Saskatchewan and northern Manitoba. By E. L. Bruce.
- [xviii] Pembina mountain, southern Manitoba. By A. MacLean.
- [xix] Lower Churchill River region, Manitoba. By F. J. Alcock.
- [Appendix.] List of plants collected along the Churchill river between Missi falls and the mouth of the Little Churchill river. By J. M. Macoun.
- North shore of lake Huron, Ontario. By W. H. Collins.
- NOTE: See Museum Bulletin No. 22 (No. 1601).
- [xx] Sutton, Barrie, and Ottawa areas, Ontario. By W. A. Johnston.
- [xxi] Formations adjacent to the Niagara escarpment of southwestern Ontario. By M. Y. Williams.
- [xxii] London area, Ontario. By J. Stansfield.
- [xxiii] Road materials surveys in Ontario and Quebec. With 3 folding tables (character of deposits of bedrock and gravels between Ottawa and Prescott, and results of tests on stone available for the Montreal-Ottawa road). By L. Reinecke.
- [xxiv] Southwestern portion of the Buckingham map-area, Quebec. By M. E. Wilson.

[xxv] Mineralogical exploration of East Templeton district, Quebec. By A. Ledoux.

[xxvi] Harricanaw basin north of the Grand Trunk Pacific railway, Quebec. With diagram No. 1609. By T. L. Tanton.

[xxvii] Headwaters of the Broadback and Nottaway rivers, north-western Quebec. By H. C. Cooke.

[xxviii] Thetford-Black Lake map-area, Quebec. By R. Harvie.

[xxix] The district southeast of and adjoining lake St. John, Quebec. By J. A. Dresser.

[xxx] St. John map-area, New Brunswick. By A. O. Hayes.

[xxxi] Moncton map-area, New Brunswick. By W. J. Wright.

[xxxii] Gold-bearing series in northern portions of Queens and Shelburne counties.—Infusorial earth deposits at Loon Lake island, Liverpool river, Queens county, Nova Scotia. With map No. 1606. By E. R. Faribault.

[xxxiii] Report of the vertebrate palæontologist. By L. M. Lambe.

NOTE: Includes field-work of C. H. Sternberg in Milk River district and on Red Deer river, Alberta.

Report of the stratigraphical palæontologist. By E. M. Kindle.

[xxxiv] Palæobotany. By W. J. Wilson.

NOTE: Includes notes on collections from Yukon Territory and Alberta.

[xxxv] Mineralogy and meteoritology. By R. A. A. Johnston.

NOTE: Includes list of minerals and ores for which inquiries have been received, with notes.

Water and borings division. By E. D. Ingall.

Canadian Arctic Expedition, 1915. By R. M. Anderson.

NOTE: Zoological extracts are again given under "Biological division. Zoology." (See below.)

[xxxvi] Geological reports, Canadian Arctic Expedition. By J. J. O'Neill.

Topographical division. (W. H. Boyd.)

Mayo map-area, Yukon Territory. A. G. Haultain.

Revelstoke sheet, British Columbia. F. S. Falconer.

Pekisko map-area, British Columbia and Alberta. D. A. Nichols.

Sheep River map-area, Alberta. C. H. Freeman.

NOTE: A very limited number of special advance photographic copies of the northern portion of the map have been issued by the topographical division. Scale: about $\frac{3}{4}$ mile to 1 inch.

Athabaska lake, Alberta and Saskatchewan. B. R. MacKay.

Sudbury map-area, Ontario. E. E. Freeland.

East coast of James bay, Quebec. W. E. Lawson.

Triangulation. S. C. McLean.

Zymoetz River reconnaissance, British Columbia. W. H. Boyd.

Canadian Arctic Expedition. (Report of K. G. Chipman, geographer.)

Biological division.

Botany. By John Macoun.

Botany. By J. M. Macoun.

Botanical reconnaissance on the north shore of the gulf of St. Lawrence. By H. St. John.

Zoology. (P. A. Taverner.)

Summary report (to Nov. 15). By P. A. Taverner.

Gulf of St. Lawrence field-work, 1915. By P. A. Taverner.

[xxxvii] Preliminary report of an expedition along the north shore of the gulf of St. Lawrence. By C. W. Townsend.

Canadian Arctic Expedition. (Zoological extracts from general report above.) By R. M. Anderson.

Entomology. By C. G. Hewitt.

NOTE: All the above reports under the headings Zoology, Canadian Arctic Expedition, and Entomology were published together as a separate, without repaging, in English only. See No. 1575.

1575. Zoology. (From the Summary Report of the Geological Survey for the calendar year 1915). [Ottawa, May 18, 1916.] 8vo. pp. 16.
 Division of anthropology.
 Part I. Ethnology and linguistics. By E. Sapir.
 [xxxviii] Part II. Archæology. By H. I. Smith.
 [xxxix] Part III. Physical anthropology. By F. H. S. Knowles.
 NOTE : Includes "Report on a skeleton from near Savona, B.C., submitted for examination by Mr. C. Hill-Tout, Abbotsford, B.C."
 See also No. v.
 Geographical and draughting division. By C. O. Senécal.
 Photographic division. By G. C. Clarke.
 Library. By M. Calhoun.
 Publications. By M. Sauvalle.
 Accountant's statement. By J. Marshall.
- Accompanying Maps and Diagrams:*
1608. Diagram of Copper Crown group, Grouse mountain, B.C. 1916. Scale: 5 miles to 1 inch. See No. iii.
1605. Diagram of limonite deposit, Limonite creek, B.C. 1916. Scale: about 600 feet to 1 inch. See No. iii.
1607. Diagram of part of northern interior of British Columbia. 1916. Scale: 20 miles to 1 inch. See No. iv.
1610. Diagram of Bridge River area, Lillooet mining division, B.C. 1916. Scale: 3 miles to 1 inch. See No. v.
 NOTE : A limited number of special photographic advance copies of the manuscript map (on a larger scale) have been issued by the topographical division.
1611. Diagram of Highland Valley copper camp, Ashcroft mining division, B.C. 1916. Scale: 4 miles to 1 inch. See No. v.
1604. Artesian water area, southern Alberta. With section. 1916. Scale: 15 miles to 1 inch. See No. xi.
1609. Diagram of Harricanaw-Turgeon basin. Quebec. 1916. Scale: 20 miles to 1 inch. See No. xxvi.
1606. Infusorial earth deposits, Loon Lake island, Liverpool river, Queens county, N.S. 1916. Scale: 500 feet to 1 inch. See No. xxxii.

PART II.
REPORTS SENT TO PRESS
BETWEEN DISCONTINUANCE OF ANNUAL REPORTS
AND COMMENCEMENT OF MEMOIRS.



PART II.

REPORTS SENT TO PRESS BETWEEN DISCONTINUANCE OF ANNUAL REPORTS AND COMMENCEMENT OF MEMOIRS.

The publication of the volumes of "Annual Reports" was discontinued with vol. XVI for 1904 (published 1907). Most of the individual reports contained in these volumes were also published separately, and at the beginning of 1910 it was decided in future to call the reports "Memoirs." A number of reports were sent to press during the interval between the discontinuance of the Annual Reports and the commencement of the series of Memoirs, and these are here listed.

Owing to delays incidental to publishing, the dates of publication of some of them are later than those of early Memoirs.

923. (E) Geological report on the Chibougamau mining region in the northern part of the province of Quebec. 1905. Published in English and French, Ottawa, 1906. 8vo. pp., English 61, French 57. With map No. 918. By A. P. Low.
955. (F)
- Accompanying Map:*
918. Geological map of the Chibougamau region, Quebec. 1906. Scale: 4 miles to 1 inch.
939. Preliminary report on the Rossland, B.C., mining district. Ottawa, 1906. 8vo. pp. 40. By R. W. Brock.
- Accompanying Map:*
941. Sketch geological map of the city of Rossland and vicinity, B.C., showing mining claims. 1906. Scale: 1,600 feet to 1 inch.
- NOTE: This map was issued separately from the report.
- †928. (E) Section of mines. Annual report for 1904. Published in English and French, Ottawa, 1906. 8vo. pp., English and French 162. With folding sheet (mineral production, 1895-1904). (Blue-book form.) By E. D. Ingall.
978. (F)
- NOTE: Published only in blue-book form (Sessional Papers, 1906). For preliminary report see No. 899 or 900.
971. (E) Section of mines. Annual report on the mineral industries of Canada for 1905. Published in English 1907, and French 1914 (dated 1907), Ottawa. 8vo. pp., English 174, French 176. With 8 tables of graphical statistics, folding sheet (mineral production, 1895-1905), and 5 illustrations. (Blue-book form.) By E. D. Ingall.
994. (F)
- NOTE: Published only in blue-book form (Sessional Papers, 1907). This is the last report issued by the Geological Survey, the work of the section being taken over by the Mines Branch of the Department of Mines. The French edition through error bears the same number as the English.
- †949. (E) Report on the Cascade coal basin, Alberta. Published in English 1907, and French 1909, Ottawa. 8vo. pp., English 37, French 40. (Blue-book form.) With 12 illustrations and an appendix. Accompanied by portfolio containing maps Nos. 929 to 936. By D. B. Dowling.
- †949a. (F)
- Appendix I. Reports referring to geology and structure of this area.
- NOTE: Published only in blue-book form (Sessional Papers, 1907). For preliminary reports see Nos. 865 or 866; 899 or 900; and 947.
- Accompanying Maps:*
- Geological map of the Cascade coal basin, Alberta. 1907. Scale: 1 mile to 1 inch.

- In four sheets, as follows:
 929. Sheet I. Panther river.
 931. Sheet II. Cascade river.
 933. Sheet III. Canmore.
 935. Sheet IV. Wind mountain.
 Topographical map of the Cascade coal basin, Alberta. 1907. Scale: 1 mile to 1 inch.
- In four sheets, as follows:
 930. Sheet I. Panther river.
 932. Sheet II. Cascade river.
 934. Sheet III. Canmore.
 936. Sheet IV. Wind mountain.
 NOTE: A second edition of map-sheets Nos. 929, 931, 933, and 935 was published in 1913 (dated 1912), for distribution at the 12th International Geological Congress.
- †958. Report of the section of chemistry and mineralogy. Ottawa, 1907 (dated 1906). 8vo. pp. 71. By G. C. Hoffmann.
 NOTE: This report covers the work carried on during the year 1905. There were no separate reports for the years 1901-1904 inclusive, but summaries of the work of the section are contained in the Summary Reports for those years (See Nos. 761 or 762; 816 or 817; 865 or 866; 899 or 900).
977. (E) Report on the geology and natural resources of the area included in the
 998. (F) northwest quarter-sheet, number 122, of the Ontario and Quebec series, comprising portions of the counties of Pontiac, Carleton, and Renfrew. Published in English 1907, and French 1908 (dated 1907). Ottawa. 8vo. pp., English v, 71, French v, 78. With map No. 660 and appendix. By R. W. Ellis.
 Appendix. Preliminary lists of organic remains from the Chazy, Black River, Trenton, and Pleistocene formations comprised within the area of the Pembroke sheet (No. 122). By H. M. Ami.
 NOTE: For preliminary reports see Nos. 552 or 553; 582 or 583; 613 or 614; 673 or 674; 716 or 717.
660. *Accompanying Map:*
 Map-sheet No. 122. (Pembroke sheet). Quebec and Ontario. Parts of counties of Ottawa and Pontiac, Que.; Carleton and Renfrew, Ont. 1907 (dated 1906). Scale: 4 miles to 1 inch.
979. (E) Report on gold values in the Klondike high level gravels. Published in
 1016. (F) English 1907, and French 1908 (dated 1907), Ottawa, 8vo. pp., English 34, French 38. With map No. 1011 and 5 other illustrations. By R. G. McConnell.
 NOTE: For preliminary report see No. 959.
- Accompanying Map:*
 1011. Map of the auriferous gravels on Bonanza and Hunker creeks, Klondike mining district, Y.T. 1908. Scale: 40 chains to 1 inch.
- †968. Moose Mountain district of southern Alberta. Ottawa, 1908 (dated 1907). 8vo. pp. 55. With maps Nos. 963, 966, and 11 other illustrations. By D. D. Cairnes.
 NOTE: For preliminary report see No. 947. See also Memoir 61 (No. 1410), which is virtually a reprint with certain minor changes.
- Accompanying Maps:*
 963. Geological and topographical map of the Moose Mountain region of the "disturbed belt," southern Alberta. 1907. Scale: 2 miles to 1 inch.
 NOTE: This map was reprinted in 1915 (dated 1914) to accompany Memoir 61 (No. 1410).
966. Topographical map showing coal areas of the Moose Mountain region of the "disturbed belt," southern Alberta. 1907. Scale: 2 miles to 1 inch.
 NOTE: This map was reprinted in 1914 to accompany Memoir 61 (No. 1410).
- †970. (E) The falls of Niagara, their evolution and varying relations to the Great
 †1571. (F) Lakes; characteristics of the power, and the effects of its diversion. 1905-6. Published in English 1908 (dated 1907), and French 1915,

Ottawa. 8vo. pp., English xxxi, 490, French xxxi, 511. With appendices I to VIII, maps Nos. 926, 967 (corrected edition of map No. 919), and 88 other illustrations. By J. W. W. Spencer.

Appendix I. Early descriptions of Niagara falls.

Appendix II. Survey notes of the recession of the falls.

Appendix III. Wells in Niagara township below escarpment.

Appendix IV. Meteorological tables.

Appendix V. Fluctuations of lakes Erie, Huron, and Ontario.

Appendix VI. Discharges of Niagara, St. Clair, St. Lawrence, and St. Mary rivers.

Appendix VII. Notes on the origin of the Great Lakes of North America.

Appendix VIII. On the discovery of Niagara falls and the name.

NOTE: For preliminary report see No. 947.

Accompanying Maps:

926. Map of gorge of Niagara river. 1907 (dated 1906). Scale: 20 chains to 1 inch.

967. Recession lines of Niagara falls. 1907. Scale: 200 feet to 1 inch. Second edition. Corrected December, 1906.

NOTE: This map is a corrected edition of map No. 919 published in 1906, now obsolete.

974. (E) Report on the copper deposits of the Eastern Townships of Quebec, with a review of the igneous rocks of the district. Published in English and French, Ottawa, 1908 (dated 1907). 8vo. pp., English 38, French 40.

975. (F) With map No. 976. By J. A. Dresser.

NOTE: Title-page of the English edition is erroneously numbered "975." The correct number "974" is on cover. For preliminary reports see Nos. 816 or 817; 865 or 866; 899 or 900; and 947.

Accompanying Map:

976. Map showing the older copper-bearing rocks of the Eastern Townships province of Quebec. 1907. Scale: 8 miles to 1 inch.

992. (E) Report on a portion of northwestern Ontario traversed by the National
1038. (F) Transcontinental railway between lake Nipigon and Sturgeon lake. Published in English 1908, and French 1910 (dated 1909), Ottawa. 8vo. pp., English 23, French 32. With map No. 993 (1st edition) and 4 other illustrations. By W. H. Collins.

NOTE: For preliminary report see No. 959.

Accompanying Map:

993. Geological map of a portion of northwestern Ontario traversed by the National Transcontinental railway between lake Nipigon and Sturgeon lake. 1908. Scale: 4 miles to 1 inch.

NOTE: A second edition of this map, with additions and alterations was published in 1909 to accompany report No. 1059.

988. (E) The Telkwa river and vicinity, B.C. Published in English 1908 (dated
1393. (F) 1907), and French 1914, Ottawa. 8vo. pp., English 23+4 and errata slip, French 23 + 5. With map No. 939 and addenda. By W. W. Leach.

Addenda. (Additional information obtained from another season's work by the author.)

NOTE: For preliminary report see No. 959.

Accompanying Map:

989. Sketch map of the Telkwa river and vicinity. Omineca mining district, British Columbia. 1908. Scale: 2 miles to 1 inch.

996. (E) Preliminary report on a portion of the main coast of British Columbia and
1556. (F) adjacent islands included in New Westminster and Nanaimo districts. Published in English 1908, and French 1915, Ottawa. 8vo. pp., English 56, French 68. With map No. 997 and 12 other illustrations. By O. E. LeRoy.

NOTE: A second English edition was published in 1909. pp. 58. For preliminary report see No. 959.

Accompanying Map:

997. Geological map of parts of Nanaimo and New Westminster mining divisions, British Columbia. Preliminary edition. 1908. Scale: 4 miles to 1 inch.

1028. (E) Report on a recent discovery of gold near lake Megantic, Quebec. Published in English and French, Ottawa, 1908. 8vo. pp., English 13, French 14.
1032. (F) With map No. 1029, sketch plan, and erratum slip (loose). By J. A. Dresser.
- NOTE: An important erratum slip, issued after the report was printed, is not found in some English copies first distributed, and is not in the French edition. Date on the cover of English edition is defective, reading "190." For preliminary note see No. 1072 [xxiii].
- Accompanying Map:*
1029. Geological map of lake Megantic and vicinity, Compton co., Quebec. 1908. Scale: 2 miles to 1 inch.
1030. (E) Report on the landslide at Notre-Dame de la Salette, Lièvre river, Quebec.
1031. (F) Published in English and French, Ottawa, 1908. 8vo. pp., English 10, French 12. With 7 illustrations. By R. W. Ells.
982. (E) Report on a portion of Conrad and Whitehorse mining districts, Yukon.
1512. (F) Published in English 1908, and French 1915, Ottawa. 8vo. pp., English 38, French vii, 57. With maps Nos. 990, 991 (not in French edition), and 8 other illustrations. * By D. D. Cairnes.
- NOTE: The French edition erroneously bears the number "1513." For preliminary report see No. 959.
- Accompanying Maps:*
990. Geological and topographical map of a portion of Conrad and Whitehorse mining districts, Yukon Territory. 1908. Scale: 2 miles to 1 inch.
- NOTE: Through error the longitudes are given as "135° 40'–135°," instead of "134° 40'–135°." A reprint was issued in 1915, to accompany the French edition of the report, on which the longitudes are incorrectly changed to "135° 40'–136°." An author's note in the front of the report states that in the legend, "Probably Pre-Cambrian" should read "Probably Pre-Ordovician."
991. Sketch geological map of the vicinity of Tantalus and Five Fingers coal mines, Yukon Territory. 1908 (dated 1907). Scale: 1 mile to 1 inch.
- NOTE: This map is not included in the French edition.
986. (E) Preliminary report on a part of the Similkameen district, British Columbia.
1411. (F) Published in English 1908 (dated 1907), and French 1915 (dated 1914), Ottawa. 8vo. pp., English 41, French v, 44. With map No. 987. By C. Camsell.
- NOTE: For summary report see No. 959.
- Accompanying Map:*
987. Geological map of Princeton coal basin and Copper Mountain mining camp, Yale district, B.C. 1908. Scale: 40 chains to 1 inch.
961. (E) Reprint of a report on the origin, geological relations, and composition of the nickel and copper deposits of the Sudbury mining district, Ontario, Canada. Published in English 1908 (dated 1907), and French 1908, Ottawa. 8vo. pp., English 244, French 264. With 30 illustrations.
965. (F) Accompanied by portfolio containing second editions of maps Nos. 775, 820, 824, 825, 864. (Second and revised edition of report No. 873.) By A. E. Barlow.
- Accompanying Maps:*
775. Geological map of a portion of the Sudbury mining region, district of Algoma, Ont. (Victoria Mines map). Second edition (with additions and change in colours). 1907. Scale: 1 mile to 1 inch.
820. Geological map of a portion of the Sudbury mining region, districts of Algoma and Nipissing, Ont. (Sudbury map). Second edition (with change in colours). 1907. Scale: 1 mile to 1 inch.
- Geological map of the vicinity of Copper Cliff, Sudbury mining district, Ontario. Second edition (with change in colours). 1907. Scale: 400 feet to 1 inch.
- In two sheets, as follows:
824. North sheet.
825. South sheet.

864. Geological map of the vicinity of Elsie and Murray mines, Sudbury mining district, Ontario. Second edition (with change in colours). 1907. Scale: 400 feet to 1 inch.
962. Second edition of a report on the geology and natural resources of the area included by the Nipissing and Timiskaming map-sheets, comprising portions of the district of Nipissing, Ontario, and of the county of Pontiac, Quebec. Ottawa, 1908 (dated 1907). 8vo. pp. 303. With maps Nos. 599 (2nd edition), 606 (2nd edition), 944, 17 other illustrations, and appendices I and II. (Second edition of No. 672.) By A. E. Barlow.
Appendix I. List of elevations. [Compiled by A. E. Barlow.]
Appendix II. On some Cambro-Silurian and Silurian fossils from lake Timiskaming, lake Nipissing, and Mattawa outliers. By H. M. Ami.
599. *Accompanying Maps:*
Map-sheet No. 138. (Lake Timiskaming sheet). Provinces of Ontario and Quebec. Nipissing district; Ont., and Pontiac county, Que. Second edition (geology revised). 1908. Scale: 4 miles to 1 inch.
606. Map-sheet No. 131. (Lake Nipissing sheet). Provinces of Ontario and Quebec. Nipissing district, Ont., and Pontiac county, Que. Second edition (geology revised). 1908. Scale: 4 miles to 1 inch.
944. Geological map of the area between Timagami and Rabbit lakes, district of Nipissing, Ontario. (Preliminary edition.) 1907. Scale: 1 mile to 1 inch.
NOTE: This map, issued primarily as a separate map, was included with those accompanying the report as it gives in greater detail a portion of map No. 599.
983. (E) The geology and mineral resources of New Brunswick. Published in English 1908 (dated 1907), and French 1909. Ottawa. 8vo. pp., English 135, French 163. With map No. 969. By R. W. Ellis.
1034. (F) *Accompanying Map:*
969. Map showing principal mineral occurrences in New Brunswick. 1907. Scale: 16 miles to 1 inch.
NOTE: The positions of the quarter-sheet geological maps of New Brunswick are also shown on this map.
1075. (E) Preliminary report on Gowganda mining division, district of Nipissing, Ontario. Published in English 1909, and French 1910, Ottawa. 8vo. pp., English ii, 47, French 53. With map No. 1076 (not bound in), and 7 other illustrations. By W. H. Collins.
NOTE: For summary report see No. 1072. See also Memoir 33 (No. 1242).
999. (F) *Accompanying Map:*
1076. Preliminary geological map of Gowganda mining division, district of Nipissing, Ontario. (With index map inset.) 1909. Scale: 1 mile to 1 inch.
1050. (E) The Whitehorse copper belt, Yukon Territory. Published in English 1909, and French 1917, Ottawa. 8vo. pp., English v, 63, French v, 65.
1051. (F) With maps and plans Nos. 1026, 1041, 1044 to 1049 (maps not bound in), and 4 other illustrations. By R. G. McConnell.
NOTE: For preliminary reports see No. 716 or 717.
- Accompanying Maps and Plans:*
1026. Geological and topographical map of central portion of Whitehorse copper belt, Yukon Territory. 1909. Scale: 400 feet to 1 inch.
1041. Geological and topographical map of Whitehorse copper belt, Yukon Territory. 1909. Scale: 1 mile to 1 inch.
1044. Surface at Arctic Chief mine, Whitehorse copper belt, Yukon. [1909.] Scale: 160 feet to 1 inch.
1045. Grafter mine, Whitehorse copper belt, Yukon. Workings at 50-foot level. [1909.] Scale: 20 feet to 1 inch.
1046. Empress of India mineral claim, Whitehorse copper belt, Yukon. [1909.] Scale: 200 feet to 1 inch.
1047. Surface at Copper King mine, Whitehorse copper belt, Yukon. [1909.] Scale: 400 feet to 1 inch.

1048. Best Chance ore body, Whitehorse copper belt, Yukon. [1909.] Scale: 40 feet to 1 inch.
1049. Surface, Pueblo mine, Whitehorse copper belt, Yukon. [1909.] Scale: 60 feet to 1 inch.
- †1035. (E) The coal fields of Manitoba, Saskatchewan, Alberta, and eastern British
1035a. (F) Columbia. Published in English 1909, and French 1911 (dated 1910), Ottawa. 8vo. pp., English 111, French 117. With map No. 1010 and 14 other illustrations. By D. B. Dowling.
NOTE: See also Memoir 53 (No. 1363), which is a revised edition of this report.
- Accompanying Map:*
- †1010. Geological map showing coal areas in Alberta, Saskatchewan, and Manitoba. 1908 (dated 1907). Scale: 35 miles to 1 inch.
1085. (E) A descriptive sketch of the geology and economic minerals of Canada.
†1086. (F) Introduction by R. W. Brock. Published in English 1909, and French 1910, Ottawa. 8vo. pp., English 151, French 165. With maps Nos. 1042 (2nd edition), 1084, and 82 other illustrations. By G. A. Young.
- Accompanying Maps:*
- †1042. Minerals. [Map of Dominion of Canada, showing localities of economic minerals.] Second edition. [1909.] Scale: 100 miles to 1 inch.
- †1084. Geology. [Geological map of the Dominion of Canada.] [1909.] Scale: 100 miles to 1 inch.
NOTE: The above maps (Nos. 1042 and 1084), compiled under the direction of J. White, Chief Geographer, Department of the Interior, were first published in the Atlas of Canada issued by that department in 1906. Reprinted by the Geological Survey, three editions of No. 1042 (with additional localities) were published in 1908, 1909, and 1910; and two editions of No. 1084, in 1909 and 1910.
980. (E) Geological reconnaissance of a portion of Algoma and Thunder Bay districts,
1114. (F) Ontario. Published in English 1909, and French 1910, Ottawa. 8vo. pp., English v, 49, French 59. With map No. 964, 6 other illustrations, and appendices I and II. (English bound with No. 1081, French with No. 1119.) By W. J. Wilson.
Appendix I. Notes on some fossils from the Cambro-Silurian rocks of the Albany River drainage system in northwestern Ontario. By J. F. Whiteaves.
Appendix II. List of insects. By J. F. Fletcher.
NOTE: For preliminary reports see Nos. 865 or 866; and 899 or 900.
1081. (E) Report on the region lying north of lake Superior between the Pic and
1119. (F) Nipigon rivers, Ontario. Published in English 1909, and French 1910, Ottawa. 8vo. pp., English 24, French 26. With map No. 964. (English bound with No. 980, French with No. 1114.) By W. H. Collins.
NOTE: For preliminary report see No. 947. Nos. 980 and 1081 English (1114, 1119 French) are bound together with cover-title: "Reports on a portion of Algoma and Thunder Bay districts, Ontario, by W. J. Wilson, and on the region lying north of lake Superior between the Pic and Nipigon rivers, Ontario, by W. H. Collins".
- Accompanying Map (for both the above reports):*
964. Geological map of portions of the districts of Algoma and Thunder Bay, Ontario. 1907. Scale: 8 miles to 1 inch.
NOTE: A reprint of this map was published in 1912. See also map No. 159.
1059. (E) A geological reconnaissance of the region traversed by the National Trans-
1060. (F) continental railway between lake Nipigon and Clay lake, Ontario. Published in English 1910 (dated 1909), and French 1912 (dated 1911), Ottawa. 8vo. pp., English 67, French 71. With maps Nos. 993 (2nd edition), 1061, and 3 other illustrations. By W. H. Collins.
NOTE: For preliminary reports see Nos. 959 and 1017. See also report No. 992.

Accompanying Maps:

993. Explored routes in a portion of northwestern Ontario traversed by the National Transcontinental railway between lake Nipigon & Sturgeon lake. 2nd edition (with revision of geology). 1909. Scale: 4 miles to 1 inch.
NOTE: First edition of this map was published in 1908 and accompanies report No. 992.
1061. Explored routes in a portion of northwestern Ontario traversed by the National Transcontinental railway between lake Minnitaki and Lake of the Woods. 1909. Scale: 4 miles to 1 inch.
- Joint report on the bituminous or oil-shales of New Brunswick and Nova Scotia, also on the oil-shale industry of Scotland. Part I. Economics. Part II. Geology. Published in English 1910 (dated 1909), and French 1914, Ottawa. 8vo. pp., English iii, 136, French iii, 151. With 21 illustrations and two appendices. Map No. 1181, issued separately in 1912 (dated 1911), illustrates part II. By R. W. Ells.
NOTE: Two reports, No. 55 (Fr. No. 56) of the Mines Branch, and No. 1107 (Fr. No. 1108) of the Geological Survey, Department of Mines, were bound together with the above cover-title and issued in English and French by each branch. The reports (parts I and II of the joint report) are as follows:
- *55. (E) Part I. Report on tests made in Scotland of oil-shale sent from New
*56. (F) Brunswick in the spring of 1908, with a view of ascertaining its economic value: especially as regards the yield of crude oil, and sulphate of ammonia. Ottawa, 1910 (French 1914). pp., English 61, French 65. With 21 illustrations and appendix. By R. W. Ells.
Appendix. The technology of the Scottish shale oil industry. By W. A. Hamor.
NOTE: For preliminary report see No. 1072.
- †1107. (E) Part II. Geological position and character of the oil-shale deposits of
1108. (F) Canada. Ottawa, 1910 (dated 1909, French 1914). pp., English 75, French 86. With appendix. By R. W. Ells.
Appendix. Oil-shale found on Melville island [Arctic ocean], 1909.
NOTE: For preliminary report see Nos. 1072 and 1120.
- Accompanying Map:*
1181. Reconnaissance map of parts of Albert and Westmorland counties, New Brunswick. (Map 35A.) 1912 (dated 1911). Scale: about 1 mile to 1 inch.
NOTE: This map, published separately in 1912, illustrates the above report (No. 1107). It was reprinted in 1914 to accompany report No. 291 of the Mines Branch and bears Mines Branch publication number 294.
1097. (E) A reconnaissance across the Mackenzie mountains on the Pelly, Ross, and
1098. (F) Gravel rivers, Yukon and North West Territories. Published in English 1910, and French 1914, Ottawa. 8vo. pp., English 54, French 62. With map No. 1099 and 19 other illustrations. By J. Keele.
NOTE: For preliminary report see No. 1072.
- Accompanying Map:*
1099. Pelly, Ross, and Gravel rivers, Yukon and North West Territories. 1910. Scale: 8 miles to 1 inch.
1080. (E) Report on a part of the North West Territories of Canada drained by the
1088. (F) Winisk and Upper Attawapiskat rivers. Published in English 1911 (dated 1909), and French 1914, Ottawa. 8vo. pp., English 58, French 65. With map No. 1089 and 6 other illustrations. (English bound with No. 1006, French with No. 1008.) By W. McInnes.
NOTE: For preliminary reports see Nos. 865 or 866; 899 or 900; and 947. For descriptions of fossils see No. 950 (5. A4).
1006. (E) Report on a traverse through the southern part of the North West Territories
1008. (F) from lac Seul to Cat lake in 1902. Published in English 1911 (dated

*Serial numbers of Mines Branch publications.

1909), and French 1914, Ottawa. 8vo. pp., English 25, French 27. With map No. 1089. (English bound with No. 1080, French with No. 1088.) By A. W. G. Wilson.

NOTE: For preliminary report see No. 816 or 817. Nos. 1080 and 1006 English, and Nos. 1088 and 1008 French, were bound together and published, English 1911 (dated 1910), French 1914. Accompanied by map No. 1089 (not bound in). Number on English edition erroneously printed "1008". The area covered by the reports and map is now included in the province of Ontario, except Island lake, now in the province of Manitoba.

Accompanying Map:

1089. Explored routes on parts of the Albany, Severn, and Winisk rivers, etc., northern Ontario and North West Territories. (Map 9A.) 1910. Scale: 8 miles to 1 inch.

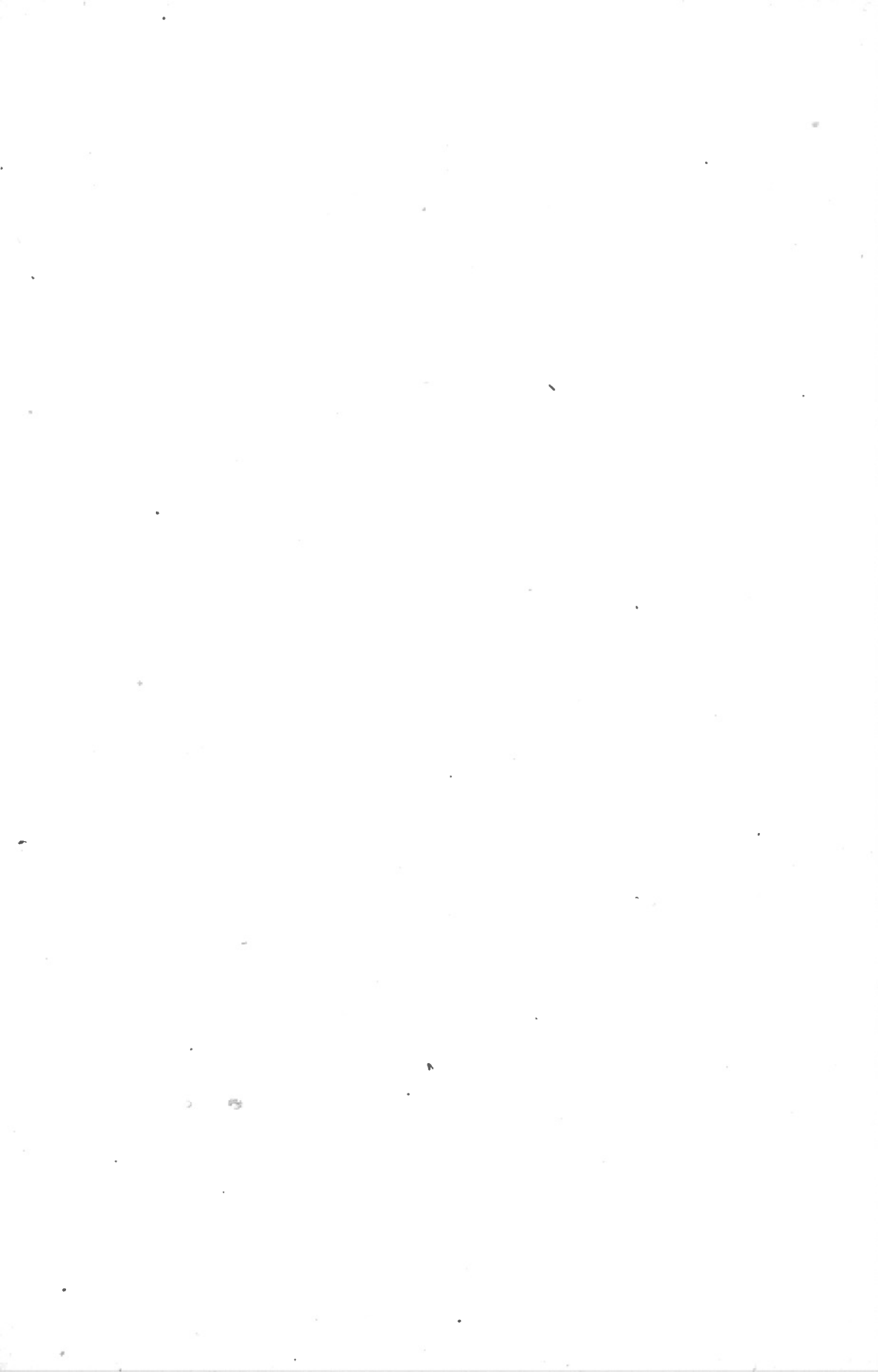
1064. (E) Geology of an area adjoining the east side of lake Timiskaming, Quebec.
1065. (F) Published in English 1911 (dated 1910), and French 1914, Ottawa. 8vo. pp., English 46, French 47. With map No. 1066 (not bound in) and 10 other illustrations. By M. E. Wilson.

NOTE: For preliminary reports see Nos. 959 (with A. E. Barlow) and 1017.

Accompanying Map:

1066. Lake Timiskaming mining region, Ontario and Quebec. (Map 18A.) 1911 (dated 1910). Scale: 1 mile to 1 inch.

PART III.
MEMOIRS.



PART III.

MEMOIRS.

The publication of the volumes of "Annual Reports" was discontinued with vol. XVI for 1904 (published 1907). Most of the individual reports contained in these volumes were also published separately, and at the beginning of 1910 it was decided in future to call the reports "Memoirs", numbering them consecutively as Memoir No. 1, Memoir No. 2, etc. A number of reports were sent to press during the interval between the discontinuance of the Annual Reports and the commencement of the series of Memoirs, but, owing to delays incidental to publishing, the dates of publication of some of these are later than those of early Memoirs. (See part II.)

The Memoirs published to date have been divided into four series—Geological, Anthropological, Biological, and Topographical.

Memoirs Nos. 19, 32, 34, 36, and 39-98 have the title of the series and the series number printed on them (e.g. "No. 63. Geological Series") in addition to the memoir number. They also bear the usual publication number of the Geological Survey.

On Memoirs Nos. 1-7, 10, 13, 21-23, 25-28, 30, 31, 33, 35, 37, and 38, the series title and number have been omitted. Nos. 8, 9, 16, 17, 18, 20, 24, and 29 bear only the letter "E", immediately following the memoir number, thus: "Memoir No. 8-E" (=Economic geology), and in the same manner Nos. 12 and 15 bear "P" (=Palæontology). These two subdivisions are now included in the Geological Series. No. 14 bears "N" (=Natural History) and is now included in the Biological Series. No. 11 bears "T" (=Topography) and is included in that series.

Two palæontological reports, one of them in quarto size, which are parts of an older series of publications, have also been called "Memoirs". They are Memoirs Nos. 3 and 12, which are also, respectively, part V, vol. III (quarto), and part III, vol. II, of "Contributions to Canadian palæontology".

In addition to the Memoirs, a series of publications called "Museum Bulletins" was commenced in 1913, and many of the shorter reports have been issued in this form. (See part IV.)

* The following list gives the Memoirs published to date, arranged according to series, and preceded by their corresponding series numbers:|

GEOLOGICAL SERIES.

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| 1. Memoir No. 1. | 28. Memoir No. 17. | 55. Memoir No. 59. |
| 2. Memoir No. 2. | 29. Memoir No. 35. | 56. Memoir No. 56. |
| 3. Memoir No. 3. | 30. Memoir No. 33. | 57. Memoir No. 69. |
| 4. Memoir No. 5. | 31. Memoir No. 38. | 58. Memoir No. 73. |
| 5. Memoir No. 6. | 32. Memoir No. 29. | 59. Memoir No. 68. |
| 6. Memoir No. 7. | 33. Memoir No. 36. | 60. Memoir No. 72. |
| 7. Memoir No. 4. | 34. Memoir No. 26. | 61. Memoir No. 74. |
| 8. Memoir No. 8. | 35. Memoir No. 39. | 62. Memoir No. 76. |
| 9. Memoir No. 9. | 36. Memoir No. 43. | 63. Memoir No. 34. |
| 10. Memoir No. 10. | 37. Memoir No. 44. | 64. Memoir No. 77. |
| 11. Memoir No. 12. | 38. Memoir No. 41. | 65. Memoir No. 79. |
| 12. Memoir No. 15. | 39. Memoir No. 47. | 66. Memoir No. 78. |
| 13. Memoir No. 16. | 40. Memoir No. 30. | 67. Memoir No. 81. |
| 14. Memoir No. 13. | 41. Memoir No. 20. | 68. Memoir No. 82. |
| 15. Memoir No. 21. | 42. Memoir No. 52. | 69. Memoir No. 84. |
| 16. Memoir No. 24. | 43. Memoir No. 51. | 70. Memoir No. 83. |
| 17. Memoir No. 27. | 44. Memoir No. 53. | 71. Memoir No. 85. |
| 18. Memoir No. 28. | 45. Memoir No. 61. | 72. Memoir No. 88. |
| 19. Memoir No. 18. | 46. Memoir No. 55. | 73. Memoir No. 87. |
| 20. Memoir No. 31. | 47. Memoir No. 60. | 74. Memoir No. 92. |
| 21. Memoir No. 25. | 48. Memoir No. 58. | 75. Memoir No. 89. |
| 22. Memoir No. 37. | 49. Memoir No. 67. | 76. Memoir No. 94. |
| 23. Memoir No. 23. | 50. Memoir No. 57. | 77. Memoir No. 95. |
| 24. Memoir No. 40. | 51. Memoir No. 50. | 78. Memoir No. 93. |
| 25. Memoir No. 32. | 52. Memoir No. 64. | 79. Memoir No. 97. |
| 26. Memoir No. 19. | 53. Memoir No. 65. | 80. Memoir No. 96. |
| 27. Memoir No. 22. | 54. Memoir No. 66. | 81. Memoir No. 98. |

ANTHROPOLOGICAL SERIES.

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| 1. Memoir No. 42. | 6. Memoir No. 63. | 11. Memoir No. 80. |
| 2. Memoir No. 48. | 7. Memoir No. 46. | 12. Memoir No. 86. |
| 3. Memoir No. 45. | 8. Memoir No. 70. | 13. Memoir No. 90. |
| 4. Memoir No. 49. | 9. Memoir No. 71. | 14. Memoir No. 91. |
| 5. Memoir No. 62. | 10. Memoir No. 75. | |

BIOLOGICAL SERIES.

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| 1. Memoir No. 14. | 2. Memoir No. 54. |
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TOPOGRAPHICAL SERIES.

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| 1. Memoir No. 11. |
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1091. (E) Memoir No. 1. Geology of the Nipigon basin, Ontario. Published in English 1910, and French 1914, Ottawa. 8vo. pp., English 152, French 177. With map No. 1090 and 20 other illustrations. By A. W. G. Wilson.

NOTE: For preliminary report see No. 761 or 762. For summaries of work in this area by W. McInnes see Nos. 552 or 553, 816 or 817; by D. B. Dowling No. 673 or 674; by W. A. Parks No. 761 or 762.

Accompanying Map:

1090. Lake Nipigon, Thunder Bay district, Ontario (Northwestern Ontario series, Nos. 11 and 17). (Map 8A.) 1910. Scale: 4 miles to 1 inch.

1093. (E) Memoir No. 2. The geology and ore deposits of Hedley mining district, British Columbia. Published in English 1910, and French 1915 (dated 1914), Ottawa. 8vo. pp., English 218, French x, 239. With maps Nos. 1095, 1096, 1105, 1106, sections Nos. 1125 to 1129, 23 other illustrations, and appendix. By C. Camsell.

Appendix. On the adjacent districts of Henry Creek and Golden Zone camp. [By C. Camsell.]

NOTE: For preliminary reports see Nos. 1017 and 1072.

Accompanying Maps and Sections:

1095. Hedley mining district, British Columbia. (Map 1A.) 1910. Topography. Scale: 1,000 feet to 1 inch.
1096. Hedley mining district, British Columbia. (Map 2A.) 1910. Geology. Scale: 1,000 feet to 1 inch.
1106. Mineral claims on Henry creek, near Hedley, B.C. (Map 3A.) 1910. Scale: 800 feet to 1 inch.
1105. Golden Zone mining camp, near Hedley, B.C. (Map 4A.) 1910. Scale: 600 feet to 1 inch.
1125. Structure sections to accompany map 2A [No. 1096], Hedley mining district, B.C. 1910. Scale: 1,000 feet to 1 inch.
NOTE: This is "Fig. 8" in the list of illustrations.
1126. Natural section exposed on lower slopes of Nickel Plate mountain shewing granodiorite contact. 1910. Scale: 450 feet to 1 inch.
NOTE: This is "Fig. 2" in the list of illustrations.
1127. Section along No. 3 tunnel, Nickel Plate mine. 1910. Scale: 100 feet to 1 inch.
NOTE: This is "Fig. 3" in the list of illustrations.
1128. Section running N. 70° W. across Nickel Plate mountain from a point 150 feet south of Sunnyside No. 3. 1910. Scale: 450 feet to 1 inch.
NOTE: This is "Fig. 5" in the list of illustrations.
1129. Section along No. 4 tunnel, Nickel Plate mine. 1910. Scale: 200 feet to 1 inch.
NOTE: This is "Fig. 7" in the list of illustrations.
- †1109. **Memoir No. 3.** Contributions to Canadian palæontology, vol. III (quarto). Part V. Palæoniscid fishes from the Albert shales of New Brunswick. Ottawa, 1910. 4vo. pp. 69. With 50 illustrations. By L. M. Lambe.
NOTE: Contains also figures and descriptions of some specimens from Horton, N.S. For preliminary report see No. 1072. See also introductory remarks on p. 117.
1110. (E) **Memoir No. 4.** Geological reconnaissance along the line of the National Transcontinental railway in western Quebec. Published in English 1911 (dated 1910), and French 1914, Ottawa. 8vo. pp., English 56, French 64. With map No. 1112 and 5 other illustrations. By W. J. Wilson.
NOTE: For preliminary reports see Nos. 959 and 1017.
- †1111. (F) *Accompanying Map:*
1112. Vicinity of the National Transcontinental railway, Abitibi district, Quebec. (Map 12A.) 1910. Scale: 4 miles to 1 inch.
1101. (E) **Memoir No. 5.** Preliminary memoir on the Lewes and Nordenskiöld Rivers coal district, Yukon Territory. Published in English 1910, and French 1915 (dated 1914), Ottawa. 8vo. pp., English 70, French vi, 68. With maps Nos. 1103, 1104, 8 other illustrations, and appendices I, II, and III. By D. D. Cairnes.
Appendix I. Mack's copper. By D. D. Cairnes.
Appendix II. The Giltana Lake claims. By D. D. Cairnes.
Appendix III. Coking, washing, and chemical tests on coal from Tantalus mine. By E. Stansfield and H. G. Carmichael.
NOTE: For preliminary reports see Nos. 1017 and 1072.
- Accompanying Maps:*
1103. Tantalus coal area, Yukon Territory. (Map 10A.) 1910. Scale: 2 miles to 1 inch.
1104. Braeburn-Kynocks coal area, Yukon Territory. (Map 11A.) 1910. Scale: 2 miles to 1 inch.
1082. (E) **Memoir No. 6.** Geology of the Haliburton and Bancroft areas, province of Ontario. Published in English 1910, and French 1912, Ottawa. 8vo. pp., English viii, 419, French viii, 426. With maps Nos. 708, 770, and 85 other illustrations. By F. D. Adams and A. E. Barlow.
NOTE: See also preliminary report No. 357 by F. D. Adams. For joint preliminary reports by Adams and Barlow see Nos. 613 or 614, 632 or 644, 673 or 674, 690 or 691. See also map No. 639.
- Accompanying Maps:*
- †708. Map-sheet No. 118. (Haliburton sheet). Province of Ontario. Parts of

- counties of Hastings, Haliburton, Renfrew, and Nipissing. 1905. Scale: 4 miles to 1 inch.
770. Geological map of portions of Hastings, Haliburton, and Peterborough counties. (Bancroft map). Province of Ontario. 1907 (dated 1905). Second edition [revised]. Scale: 2 miles to 1 inch.
NOTE: The first edition of this map, now obsolete, was published 1905. It was originally intended to publish preliminary reports on this area in the Annual Report for 1901, and the map has printed on it: "Accompanying Parts H. and HH., vol. XIV," but these reports were not printed.
1077. (E) **Memoir No. 7.** Geology of St. Bruno mountain, province of Quebec.
1087. (F) Published in English 1910, and French 1912, Ottawa. 8vo. pp., English 33, French 33. With maps Nos. 1078, 1079, 4 other illustrations, and appendices A and B. By J. A. Dresser.
NOTE: For preliminary report see No. 947.
- Appendix A. Preliminary list of fossils from the supposed Utica or Lorraine shales at St. Bruno mountain, Chambly county, Que., collected by J. A. Dresser and R. Harvie, jr., in 1905. By J. F. Whiteaves.
Appendix B. List of fossils from St. Hilaire, Quebec, as provisionally determined June 30, 1907, by Dr. E. O. Ulrich. Collected by R. Harvie, jr.
- Accompanying Maps:*
1078. St. Bruno mountain, Chambly county, Quebec. 1910. Topography. Scale: 800 feet to 1 inch.
1079. St. Bruno mountain, Chambly county, Quebec. 1910. Geology. Scale: 800 feet to 1 inch.
1115. (E) **Memoir No. 8.** The Edmonton coal field, Alberta. Published in English
1116. (F) 1911 (dated 1910), and French 1913 (dated 1912), Ottawa. 8vo. pp., English 59, French 70. With maps Nos. 1117, 1118, and 7 other illustrations. By D. B. Dowling.
NOTE: For preliminary report see No. 1072.
- Accompanying Maps:*
- †1117. Edmonton, Alberta. (Map 5A.) 1910. Topography. Scale: 2,640 feet to 1 inch.
- †1118. Edmonton, Alberta. (Map 6A.) 1910. Isobathic lines showing cover over "Clover Bar" coal seam. Scale: 2,640 feet to 1 inch.
1130. (E) **Memoir No. 9.** Bighorn coal basin, Alberta. Published in English 1911,
1131. (F) and French 1913 (dated 1912), Ottawa. 8vo. pp., English 66, French 78. With maps Nos. 1132, 1145, and 7 other illustrations. By G. S. Malloch.
NOTE: The French edition erroneously bears the number "1130."
For preliminary report see No. 1072.
- Accompanying Maps:*
1132. Bighorn coal basin, between Saskatchewan and Brazeau rivers, Alberta. (Map 7A.) 1910. Geology, reconnaissance. Scale: 2 miles to 1 inch.
NOTE: A topographical edition of this map was published separately in 1913. See No. 1210.
1210. Bighorn coal basin, between Saskatchewan and Brazeau rivers, Alberta. (Map 40A.) 1913 (dated 1911). Topography reconnaissance. Scale: about 2 miles to 1 inch.
NOTE: An advance photographic edition of this map was published in 1911.
1145. Bird's-eye view of the southern portion of the Bighorn coal basin, adjoining mountains, and foothills. Alberta. 1910.
1137. **Memoir No. 10.** An instrumental survey of the shore-lines of the extinct lakes Algonquin and Nipissing in southwestern Ontario. Ottawa, 1911 (dated 1910). 8vo. pp. 57. With folding outline plan and profile, and 6 other illustrations. By J. W. Goldthwait.
NOTE: For preliminary report see No. 1072.
1139. **Memoir No. 11.** Triangulation and spirit leveling of Vancouver island, British Columbia, 1909. Ottawa, 1910. 8vo. pp. 31. With diagram showing triangulation. By R. H. Chapman.
NOTE: For preliminary report see No. 1120.

1141. **Memoir No. 12.** Contributions to Canadian palæontology, vol. II, part III. Canadian fossil insects. 5. Insects from the Tertiary lake deposits of the southern interior of British Columbia, collected by Mr. Lawrence M. Lambe, in 1906. Ottawa, 1911 (dated 1910). 8vo. pp. viii, 93-129 (paging continuous with No. 710). With 36 illustrations. By A. Handlirsch.
NOTE: See introductory remarks on p. 117. For report on field-work, by L. M. Lambe, see No. 959.
1121. **Memoir No. 13.** Southern Vancouver island. Ottawa. 1912. 8vo. pp., xiii, 208. With map No. 1123 and 21 other illustrations. By C. H. Clapp.
NOTE: For preliminary reports see Nos. 1072, 1120, and 1170.
Accompanying Map:
1123. Southern Vancouver island, British Columbia. (Map 17A.) 1911. Scale: 6 miles to 1 inch. See also map No. 1378.
1143. **Memoir No. 14.** New species of shells collected by John Macoun at Barkley sound, Vancouver island, British Columbia. Ottawa, 1911 (dated 1910). 8vo. pp. 22. With 17 illustrations. By W. H. Dall and P. Bartsch.
NOTE: For short notes on the field-work, by John Macoun, see Nos. 1072 and 1120.
1150. **Memoir No. 15.** On a Trenton echinoderm fauna at Kirkfield, Ontario, Ottawa, 1911. 8vo. pp. 69. With 56 illustrations. By F. Springer.
1113. (E) **Memoir No. 16.** The clay and shale deposits of Nova Scotia and portions
1152. (F) of New Brunswick. Published in English 1911, and French 1913 (dated 1912), Ottawa. 8vo. pp., English 164, French 187. With map No. 1153, 47 other illustrations, and appendices I and II (folding sheets). By H. Ries, assisted by J. Keele.
Appendix I. Summary table of physical tests.
Appendix II. Summary table of physical tests.
NOTE: For preliminary reports see No. 1120.
Accompanying Map:
- †1153. Nova Scotia. (Map 22A.) 1911. (Showing principal localities of clays and shales.) Scale: 12 miles to 1 inch.
1160. (E) **Memoir No. 17.** Geology and economic resources of the Larder Lake
1161. (F) district, Ont., and adjoining portions of Pontiac county, Que. Published in English 1913 (dated 1912), and French 1914, Ottawa. 8vo. pp., English vii, 62, French viii, 70. With maps Nos. 1177, 1178, and 16 other illustrations. By M. E. Wilson.
NOTE: For preliminary reports see Nos. 1072 and 1120.
Accompanying Maps:
1177. Larder lake, Nipissing district, Ontario. (Map 31A.) 1912 (dated 1911). Scale: 1 mile to 1 inch.
1178. Larder lake and Opasatika lake, Nipissing, Abitibi and Pontiac, Ontario and Quebec. (Map 32A.) 1912. Scale: 2 miles to 1 inch.
NOTE: An advance photographic edition of this map was published in 1911.
1165. (E) **Memoir No. 18.** Bathurst district, New Brunswick. Published in English
1171. (F) 1913 (dated 1911), and French 1914, Ottawa. 8vo. pp., English 96, French 98. With maps Nos. 1155, 1156, 1162, 1163, and 1 other illustration. By G. A. Young.
NOTE: Part of the English edition was issued in advance without maps Nos. 1162 and 1163. For preliminary reports see Nos. 1072 and 1120.
Accompanying Maps:
1155. Millstream iron deposit, Gloucester county, New Brunswick. (Map 24A.) 1911. Scale: 400 feet to 1 inch.
1156. Nipisiguit iron deposit, Gloucester county, New Brunswick. (Map 25A.) 1911. Scale: 400 feet to 1 inch.
1162. Bathurst and vicinity, Gloucester county, New Brunswick. (Map 26A.) 1914 (dated 1911). Topography. Scale: about 1 mile to 1 inch.
1163. Bathurst and vicinity, Gloucester county, New Brunswick. (Map 27A.) 1914 (dated 1911). Geology. Scale: about 1 mile to 1 inch.

1166. (E) **Memoir No. 19.** Mother Lode and Sunset mines, Boundary district, B.C.
 1172. (F) Published in English 1914 (dated 1913), and French 1915, Ottawa. 8vo. pp., English iv, 56, French v, 61. With maps Nos. 1167, 1168, and 12 other illustrations. By O. E. LeRoy.
- Accompanying Maps:*
1167. Mother Lode and Sunset mines, Deadwood, British Columbia. (Map 29A.) 1912 (dated 1911). Topography. Scale: 400 feet to 1 inch.
 NOTE: An advance photographic edition was issued in 1910.
1168. Mother Lode and Sunset mines, Deadwood, British Columbia. (Map 30A.) 1913 (dated 1911). Geology. Scale: 400 feet to 1 inch.
1173. (E) **Memoir No. 20.** Gold fields of Nova Scotia. Published in English 1914
 1174. (F) (dated 1912), and French 1916, Ottawa. 8vo. pp., English xvi, 331, French xvii, 384. With maps Nos. 1185, 1208, and 66 other illustrations. Compiled largely from the results of investigations by E. R. Faribault. By W. Malcolm.
- NOTE: Contains a chapter on economic minerals other than gold. Part of the English edition was issued in advance without the maps. For summaries of work by E. R. Faribault see Summary Reports from 1887 to 1910.
- Accompanying Maps:*
1185. Geological map of Nova Scotia. (Map 39A.) 1914 (dated 1911). Scale: 8 miles to 1 inch.
 NOTE: This map also shows the gold areas and localities of minerals other than gold.
1208. Southeast Nova Scotia. (Map 53A.) 1913 (dated 1911). Structural geology. Scale: about 4 miles to 1 inch.
1175. (E) **Memoir No. 21.** The geology and ore deposits of Phoenix, Boundary
 1331. (F) district, British Columbia. Published in English 1912, and French 1914, Ottawa. 8vo. pp., English 110, French 120. With maps Nos. 1135, 1136, and 28 other illustrations. By O. E. LeRoy.
- NOTE: For preliminary report see No. 1072.
- Accompanying Maps:*
1135. Phoenix, British Columbia. (Map 15A.) 1911. Topography. Scale: 400 feet to 1 inch.
1136. Phoenix, British Columbia. (Map 16A.) 1911. Geology. Scale: 400 feet to 1 inch.
1190. (E) **Memoir No. 22.** Preliminary report on the serpentine and associated rocks
 1209. (F) of southern Quebec. Published in English 1914 (dated 1913), and French 1915 (dated 1914), Ottawa. 8vo. pp., English xvii, 103, French viii, 122. With maps Nos. 1154, 1184, 1202, and 18 other illustrations. By J. A. Dresser.
- NOTE: For preliminary reports see Nos. 1017 and 1120.
- Accompanying Maps:*
1154. Thetford-Black Lake mining district, counties of Beauce, Megantic, and Wolfe, Quebec. (Map 23A.) 1911. Scale: 1 mile to 1 inch.
1184. Danville mining district, counties of Arthabaska, Richmond, and Wolfe, Quebec. (Map 38A.) 1912 (dated 1911). Scale: 1 mile to 1 inch.
 NOTE: An advance photographic edition was published in 1911.
1202. Northeast part of the serpentine belt, Eastern Townships, Quebec. (Map 52A.) 1913 (dated 1911). Scale: 4 miles to 1 inch.
1188. (E) **Memoir No. 23.** Geology of the coast and islands between the strait of
 1189. (F) Georgia and Queen Charlotte sound, B.C. Published in English 1914 (dated 1913), and French 1915, Ottawa. 8vo. pp., English viii, 152, French viii, 162. With map No. 1241, and 34 other illustrations. By J. A. Baneroff.
- NOTE: For preliminary report see No. 1017.
- Accompanying Map:*
1241. Coast and islands between strait of Georgia and Queen Charlotte sound, British Columbia. (Map 65A.) 1913. Scale: 4 miles to 1 inch.
1204. (E) **Memoir No. 24.** Preliminary report on the clay and shale deposits of the
 1205. (F) western provinces. Published in English 1912, and French 1914 (dated 1912), Ottawa. 8vo. pp., English 231, French 257. With map No.

- 1201, folding sheet (table of physical tests), and 76 other illustrations.
By H. Ries and J. Keele.
NOTE: For preliminary reports see No. 1170. See also Nos. 1279, 1324, 1453, and 1455.
- Accompanying Map:*
†1201. Geological map of portions of Alberta, Saskatchewan, and Manitoba. (Map 51A.) 1912 (dated 1911). Scale: 35 miles to 1 inch.
1279. (E) **Memoir No. 25.** Report on the clay and shale deposits of the western provinces. (Part II.) Published in English 1914 (dated 1913), and French 1916, Ottawa. 8vo. pp., English 105, French viii, 100. With 46 illustrations and folding sheet (summary of physical tests).
1281. (F) By H. Ries and J. Keele.
NOTE: For preliminary reports see No. 1218. For part I see No. 1204.
1206. (E) **Memoir No. 26.** Geology and mineral deposits of the Tulameen district, B.C. Published in English 1913, and French 1916, Ottawa. 8vo. pp., English viii, 188, French x, 198. With maps Nos. 1195 to 1198, and 25 other illustrations. By C. Camsell.
1207. (F) NOTE: Part of the English edition was issued in advance without maps Nos. 1195 and 1196. For preliminary reports see Nos. 1120 and 1170.
- Accompanying Maps:*
1195. Tulameen, Yale district, British Columbia. (Map 45A.) 1913 (dated 1911). Topography. Scale: about 1 mile to 1 inch.
1196. Tulameen, Yale district, British Columbia. (Map 46A.) 1913 (dated 1911). Geology. Scale: about 1 mile to 1 inch.
NOTE: An advance photographic edition of this map was published in 1911.
1197. Law's mining camp, near Tulameen, B.C. (Map 47A.) 1912 (dated 1911). Scale: 600 feet to 1 inch.
1198. Tulameen coal area, Yale district, British Columbia. (Map 48A.) 1911. Scale: $\frac{1}{2}$ mile to 1 inch.
1211. (E) **Memoir No. 27.** Report of the Commission appointed to investigate Turtle mountain, Frank, Alberta, 1911. Published in English 1912, and French 1913, Ottawa. 8vo. pp., English 34, French 38. With 2 preliminary maps, 10 folding sheets (profiles and diagram), and 31 other illustrations. By R. A. Daly, W. G. Miller, and G. S. Rice.
1212. (F) *Accompanying Map:*
1223. Frank, Alberta (showing the landslide of 1903). (Map 57A.) 1917. Scale: 800 feet to 1 inch.
1213. (E) **Memoir No. 28.** The geology of Steeprock lake, Ontario. By A. C. Lawson. Notes on fossils from limestone of Steeprock lake, Ontario. By C. D. Walcott. Published in English 1912, and French 1915, Ottawa. 8vo. pp., English 23, French vi, 21. With 8 illustrations.
1214. (F) NOTE: The second part of this memoir was reprinted and published as a separate. See No. 1024. For preliminary note by A. C. Lawson see No. 1218.
- †1024. Notes on fossils from limestone of Steeprock lake, Ontario. Ottawa [May 11], 1912. 8vo. pp. 11. With 8 illustrations. By C. D. Walcott.
- †1220. (E) **Memoir No. 29.** Oil and gas prospects of the northwest provinces of Canada. Published in English 1913, and French 1915, Ottawa. 8vo. pp., English vi, 99, French vi, 131. With map No. 1221, folding sheet (table of formations), 2 diagrams, and 9 other illustrations. [Compiled] by W. Malcolm.
1224. (F) NOTE: Part of the English edition was issued in advance without the map.
Accompanying Map:
1221. Geological map of Alberta, Saskatchewan, and Manitoba. (Map 55A.) 1913. Scale: 35 miles to 1 inch.
NOTE: This map was reprinted in 1914 for the Mines Branch and that edition was also used for Memoir No. 53 (No. 1363).

1225. (E) **Memoir No. 30.** The basins of Nelson and Churchill rivers. Published in English 1914, and French 1916, Ottawa. 8vo. pp., English vii, 146, French viii, 178. With map No. 1226, folding diagram map, and 19 other illustrations. By W. McInnes.
NOTE : Part of the English edition was issued in advance without the map. For preliminary reports see Nos. 959, 1017, 1072, 1120, and 1170.
- Accompanying Map:*
1226. Explored routes in the lower parts of the drainage area of Churchill and Nelson rivers, Manitoba and Saskatchewan. (Map 58A.) 1915 (dated 1914). Scale: 16 miles to 1 inch.
1228. (E) **Memoir No. 31.** Wheaton district, Yukon Territory. Published in English 1913 (dated 1912), and French 1915, Ottawa. 8vo. pp., English x, 153, French xii, 176. With diagram of Wheaton map-area No. 1229a, and 28 other illustrations. By D. D. Cairnes.
NOTE : For preliminary report see No. 1120. See also No. 982.
- Accompanying Map:*
1229a. Diagram of Wheaton map-area, Yukon, 1912. Geology. Scale : 2 miles to 1 inch.
NOTE : The portion of D. D. Cairnes' report in Summary Report, 1915, relating to the Wheaton district, was published as a separate (in English only) without repaging and accompanied by map No. 1230, forming a supplement to Memoir No. 31. See No. 1620.
1620. Wheaton district, southern Yukon. Supplement to Memoir No. 31. [Ottawa, 1916.] 8vo. pp. 14. With map No. 1230 and 1 other illustration.
- Accompanying Maps:*
1230. Wheaton, Yukon Territory. (Map 59A.) 1916 (dated 1915). Topography. Scale: about 1 mile to 1 inch.
1231. Wheaton, Yukon Territory. (Map 60A.) 1917. Geology. Scale: about 1 mile to 1 inch.
NOTE : The above map (No. 1231) was published separately in 1917.
1235. (E) **Memoir No. 32.** Portions of Portland Canal and Skeena mining divisions, Skeena district, B.C. Published in English 1914 (dated 1913), and French 1917, Ottawa. 8vo. pp., English xi, 101, French xi, 115. With map No. 1200, 3 folding diagram maps, and 10 other illustrations. By R. G. McConnell.
NOTE : For preliminary reports see Nos. 1170 and 1218. The number "1235" was also, by mistake, printed on a map instead of "1245." See p. 92.
- Accompanying Map:*
1200. Part of Portland Canal mining area, British Columbia. (Map 50A.) 1913 (dated 1911). Topography. Scale: about 2 miles to 1 inch.
NOTE : An advance photographic edition of this map was published in 1911.
1242. (E) **Memoir No. 33.** The geology of Gowganda mining division. [Ontario.]
1243. (F) Published in English 1914 (dated 1913), and French 1915, Ottawa. 8vo. pp., English vii, 121, French vii, 141. With map No. 1244 (in 2 sheets), and 14 other illustrations. By W. H. Collins.
NOTE : For preliminary reports see Nos. 1072, 1120, and 1170.
- Accompanying Map:*
1244. Advance geological copy of map of Gowganda mining division and vicinity, Ontario. (Map 64A.) 1913. Scale: 1 mile to 1 inch. In two sheets, as follows:
1244a. South half.
1244b. North half.
1248. (E) **Memoir No. 34.** The Devonian of southwestern Ontario. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English vii, 341, French vii, 300. With map No. 1337, and 21 other illustrations. By C. R. Stauffer.
NOTE : For preliminary reports see Nos. 1170, 1218, and 1305.

1337. \ *Accompanying Map:*
Southwestern Ontario. (Map 116A.) 1915 (dated 1914). Scale: 12 miles to 1 inch.
1186. (E) **Memoir No. 35.** Reconnaissance along the National Transcontinental railway in southern Quebec. Published in English 1913 (dated 1912) and French 1914, Ottawa. 8vo. pp., English vii, 42, French vii, 42, With map No. 1180, and 10 other illustrations. By J. A. Dresser.
1361. (F) **NOTE:** For preliminary report see No. 1072.
- Accompanying Map:*
1180. Vicinity of the National Transcontinental railway between the counties of Lévis and Temiscouata, Quebec. (Map 34A.) 1911. Scale: 8 miles to 1 inch.
1293. **Memoir No. 36.** Geology of the Victoria and Saanich map-areas, Vancouver island, B.C. Ottawa, 1914 (dated 1913). 8vo. pp., viii, 143. With maps Nos. 1148, 1149, 1152, 1153, 1251, 1254, and 32 other illustrations. By C. H. Clapp.
- NOTE:** Part of the edition was issued in advance without the maps. For preliminary report see No. 1170. See also Memoir No. 13.
- Accompanying Maps:*
1251. Victoria sheet, Vancouver island, British Columbia. (Map 70A.) 1915 (dated 1914). Geology and topography. Scale: about 1 mile to 1 inch.
1252. Victoria sheet, Vancouver island, British Columbia. (Map 71A.) 1915. Superficial geology. Scale: about 1 mile to 1 inch.
1253. Saanich sheet, Vancouver island, British Columbia. (Map 72A.) 1915 (dated 1914). Geology and topography. Scale: about 1 mile to 1 inch.
1254. Saanich sheet, Vancouver island, British Columbia. (Map 73A.) 1915. Superficial geology. Scale: about 1 mile to 1 inch.
The two following maps (Nos. 1148 and 1149), published separately in 1915, are intended to accompany Memoir No. 36 although not included in the list of contents.
1148. Victoria sheet, Vancouver island, British Columbia. (Map 20A.) 2nd edition. 1915. Topography. Scale: about 1 mile to 1 inch.
NOTE: A limited edition of this map was published separately in 1911.
1149. Saanich sheet, Vancouver island, British Columbia. (Map 21A.) 2nd edition. 1915. Topography. Scale: about 1 mile to 1 inch.
NOTE: A limited edition of this map was published separately in 1911.
1255. (E) **Memoir No. 37.** Portions of Atlin district, British Columbia: with special reference to lode mining. Published in English 1913, and French 1915 (dated 1914), Ottawa. 8vo. pp., English ix, 129, French xi, 148. With map No. 1283 and 44 other illustrations. By D. D. Cairnes.
1256. (F) **NOTE:** For preliminary report see No. 1170.
- Accompanying Map:*
1283. Taku arm, Atlin district, B.C. (Map 94A.) 1913. Scale: 4 miles to 1 inch.
NOTE: This is a preliminary map. Detailed geological and topographical maps are in preparation and will be published later.
1203. **Memoir No. 38.** Geology of the North American Cordillera at the forty-ninth parallel. In three parts. By R. A. Daly.
NOTE: Reprinted, with the maps, from Report of the Chief Astronomer, 1910 (Appendix 6. Sessional paper No. 25a, 1912), by permission of W. F. King, Chief Astronomer. For preliminary reports see Nos. 761 or 762, 816 or 817, 865 or 866, 899 or 900.
Part I. Chapters I to XVIII. Ottawa, 1913 (dated 1912). 8vo. pp., xxix, 546. With folding sheet (correlations in the Rocky Mountain geosynclinal), and 104 illustrations.
Part II. Chapters XIX to XXVIII. Ottawa, 1913 (dated 1912). 8vo. pp., xxix, 310. With 51 illustrations and appendices A and B.

Appendix A. Table of chemical analyses [of rocks]. By M. F. Connor and M. Dittrich.

Appendix B. A report on fossil plants from the International Boundary survey for 1902-05, collected by Dr. R. A. Daly. With 20 illustrations. By D. P. Penhallow.

NOTE: Reprinted from Transactions of Royal Society of Canada, Section IV, 1907, pp. 287-334.

Part III. Portfolio containing geological maps Nos. 1260 to 1276, 2 sheets of photographic panoramas, index map, and errata slip.

Maps contained in Part III:

The map-sheets connect in the order given below, from east to west, and have a uniform scale of 1 mile to 1 inch. Each sheet contains also a structure section. Reprinted and published by the Geological Survey, 1913.

1260. Sheet 1. Clarke range. (Map 74A.) With errata. Contour interval 100 feet.

NOTE: Reprinted, 1913, with change of colours, for the Mines Branch.

1261. Sheet 2. Galton range. (Map 75A.) With errata. Contour interval 100 feet.

1262. Sheet 3. Rocky Mountain trench. (Map 76A.) With errata. Contour interval 100 feet.

1263. Sheet 4. Yakh range. (Map 77A.) With errata. Contour interval 100 feet.

1264. Sheet 5. Moyie range. (Map 78A.) With errata. Contour interval 100 feet.

1265. Sheet 6. Purcell trench. (Map 79A.) Contour interval 500 feet.

1266. Sheet 7. Pend d'Oreille river. (Map 80A.) Contour interval 500 feet.

1267. Sheet 8. Rossland mountains. (Map 81A.) Contour interval 500 feet.

1268. Sheet 9. Christina lake. (Map 82A.) With errata. Contour interval 500 feet.

1269. Sheet 10. Midway mountains. (Map 83A.) With errata. Contour interval 100 feet.

1270. Sheet 11. Osoyoos. (Map 84A.) Contour interval 100 feet.

1271. Sheet 12. Kruger mountain. (Map 85A.) Contour interval 100 feet.

1272. Sheet 13. Okanagan range. (Map 86A.) Contour interval 100 feet.

1273. Sheet 14. Hozameen range. (Map 87A.) Contour interval 100 feet.

1274. Sheet 15. Skagit range. (Map 88A.) With erratum. Contour interval 100 feet.

1275. Sheet 16. Chilliwack river. (Map 89A.) Contour interval 100 feet.

1276. Sheet 17. Sumas lake. (Map 90A.) With erratum. Contour interval 100 feet.

1280. (E) **Memoir No. 39.** Kewagama Lake map-area, Quebec. Published in

1292. (F) English 1914 (dated 1913), and French 1915, Ottawa. 8vo. pp., English vi, 134, French viii, 137. With map No. 1282 and 42 other illustrations. By M. E. Wilson.

NOTE: For preliminary reports see Nos. 1170 and 1218. Advertisement pages at back of volume are erroneously included in the pagination.

Accompanying Map:

1282. Kewagama, Abitibi and Pontiac, Quebec. (Map 93A.) 1914 (dated 1913). Scale: 4 miles to 1 inch.

NOTE: This map erroneously bears the number "1280."

1288. (E) **Memoir No. 40.** The Archæan geology of Rainy lake re-studied. Pub-

1289. (F) lished in English, 1914 (dated 1913), and French 1917, Ottawa. 8vo. pp., English vii, 115, French vii, 151. With map No. 1299 and 18 other illustrations. By A. C. Lawson.

NOTE: For preliminary report see No. 1218.

Accompanying Map:

1299. Rainy lake, Rainy River district, Ontario. (Map 98A.) 1914. Geology. Scale: 1 mile to 1 inch.

1309. (E) **Memoir No. 41.** The "Fern ledges" Carboniferous flora of St. John,

1595. (F)

New Brunswick. Published in English 1914, and French 1917, Ottawa.

- 8vo. pp., English vi, 167, French vi, 181. With 90 illustrations. By M. C. Stopes.
1310. (E) **Memoir No. 42.** The double-curve motive in northeastern Algonkian art.
1596. (F) Published in English 1914, and French 1915, Ottawa. 8vo. pp., English v, 17, French vii, 21. With 70 illustrations. By F. G. Speck.
1311. (E) **Memoir No. 43.** St. Hilaire (Beloil) and Rougemont mountains, Quebec.
1312. (F) Published in English 1914, and French 1915. Ottawa. 8vo. pp., English vi, 108, French viii, 118. With map No. 1301. By J. J. O'Neill.
- NOTE: For preliminary report see No. 1218.
Accompanying Map:
1301. St. Hilaire and Rougemont mountains, Rouville and St. Hyacinthe counties, Quebec. (Map 101A.) 1914. Scale: $\frac{1}{2}$ mile to 1 inch.
1315. (E) **Memoir No. 44.** Clay and shale deposits of New Brunswick. Published
1316. (F) in English 1914, and French 1915, Ottawa. 8vo. pp., English viii, 94, French xii, 101. With map No. 1308 and 28 other illustrations. By J. Keele.
- NOTE: For preliminary reports see Nos. 1120, 1218, and 1305.
Accompanying Map:
1308. New Brunswick—Carboniferous areas, and positions of certain shale and clay deposits. (Map 108A.) 1913. Scale: 20 miles to 1 inch.
1317. (E) **Memoir No. 45.** The "Inviting-in" feast of the Alaskan Eskimo. Pub-
1318. (F) lished in English 1914 (dated 1913), and French 1916, Ottawa. 8vo. pp., English iii, 20, French v, 23. With 17 illustrations. By E. W. Hawkes.
1322. **Memoir No. 46.** Classification of Iroquoian radicals with subjective pronominal prefixes. Ottawa, 1915. 8vo. pp. iii, 30. With appendix. By C. M. Barbeau.
- Appendix. I. List of Wyandot phonetic signs. II. Dr. F. Boas' "Subjective prefixes", and "Objective prefixes". III. Cuoq's paradigm K, and Cuoq's paradigms A and 8.
1324. (E) **Memoir No. 47.** Clay and shale deposits of the western provinces. Part
1325. (F) III. Published in English 1914, and French 1915, Ottawa. 8vo. pp., English iv, 73, French vi, 80. With folding sheet (table of physical tests) and 23 illustrations. By H. Ries.
- NOTE: For preliminary report see No. 1305. For parts I and II see Nos. 1204 and 1279.
- †1326. (E) **Memoir No. 48.** Some myths and tales of the Ojibwa of southeastern
†1327. (F) Ontario. Published in English 1914, and French 1916, Ottawa. 8vo. pp., English v, 83, French v, 94. Collected by P. Radin.
- NOTE: For report on field-work see No. 1305.
- †1333. **Memoir No. 49.** Malecite tales. Ottawa, 1914. 8vo. pp., vi, 133. By W. H. Mechling.
- NOTE: For notes on field-work see Nos. 1218 and 1305.
1385. (E) **Memoir No. 50.** Upper White River district, Yukon. Published in
1341. (F) English 1915, and French 1916. Ottawa. 8vo. pp., English vi, 191, French viii, 175. With maps Nos. 1332, 1354, 1355, folding sheet (table of formations), and 19 other illustrations. By D. D. Cairnes.
- NOTE: Includes report on Carboniferous fossils from the district by G. H. Girty. For preliminary reports see Nos. 1359 and 1503.
Accompanying Maps:
1332. Canadian routes to White River district, Yukon, and to Chisana district, Alaska. (Map 113A.) 1914. Scale: 16 miles to 1 inch.
1354. Upper White River district, Yukon Territory. (Map 122A.) 1915. Topography. Scale: about 4 miles to 1 inch.
- NOTE: A limited number of special advance photographic copies of the manuscript map were issued by the topographical division. Scale: about $4\frac{1}{2}$ miles to 1 inch.
1355. Upper White River district, Yukon Territory. (Map 123A.) 1915. Geology. Scale: about 4 miles to 1 inch.

1344. (E) **Memoir No. 51.** Geology of the Nanaimo map-area. Published in English
 1345. (F) 1914, and French 1916, Ottawa. 8vo. pp., English vii, 135, French ix,
 149. With maps Nos. 1179, 1568, 1569, 1570, and 32 other illustrations.
 By C. H. Clapp.
 NOTE: Part of the English edition was issued in advance without
 the maps. For preliminary report see No. 1218.
- Accompanying Maps:*
1179. Nanaimo sheet, Vancouver island, British Columbia. (Map 33A.) 2nd
 edition, 1915. Topography. Scale: about 1 mile to 1 inch.
 NOTE: Two editions were published in the same year, with no
 alterations. An advance photographic edition was published in 1911.
1568. Nanaimo sheet, Vancouver island, British Columbia. (Map 158A.) 1916.
 Areal geology. Scale: about 1 mile to 1 inch.
1569. Nanaimo sheet, Vancouver island, British Columbia. (Map 159A.) 1916.
 Superficial geology. Scale: about 1 mile to 1 inch.
1570. Nanaimo sheet, Vancouver island, British Columbia. (Map 160A.) 1916.
 Economic geology. Scale: about 1 mile to 1 inch.
 NOTE: Map No. 1219 is a preliminary map covering the same area.
1357. (E) **Memoir No. 52.** Geological notes to accompany map of Sheep River gas
 1358. (F) and oil field, Alberta. Published in English 1914, and French 1915,
 Ottawa. 8vo. pp., English iii, 26. French v, 29. With map No.
 1335 and 3 other illustrations. By D. B. Dowling.
 NOTE: For preliminary report see No. 1359.
- Accompanying Map:*
- †1335. Sheep river, Alberta. (Map 114A.) 1914. Scale: 1 mile to 1 inch.
1363. (E) **Memoir No. 53.** Coal fields of Manitoba, Saskatchewan, Alberta, and
 1364. (F) eastern British Columbia. Published in English 1914, and French
 1916, Ottawa. 8vo. pp., English v, 142, French vii, 152. With map
 No. 1221, and 9 other illustrations. By D. B. Dowling.
 NOTE: This memoir is a revised edition of report No. 1035, pub-
 lished in 1909. Part of the English edition was issued in advance
 without the map.
- Accompanying Map:*
1221. Geological map of Alberta, Saskatchewan, and Manitoba. (Map 55A.) 1914.
 (Reprint.) Scale: 35 miles to 1 inch.
 NOTE: The original edition of this map accompanies Memoir 29
 (No. 1220). The above reprint was made for report No. 291 of
 the Mines Branch and bears an imprint to that effect.
1366. **Memoir No. 54.** Annotated list of flowering plants and ferns of Point
 Pelee, Ont., and neighbouring districts. Ottawa, 1914. 8vo. pp., iii,
 131. With 1 illustration. By C. K. Dodge.
1370. (E) **Memoir No. 55.** Geology of Field map-area, B.C. and Alberta. Published
 1371. (F) in English 1914, and French 1917. 8vo. pp., English ix, 312, French ix,
 319. With map No. 1445 and 43 other illustrations. By J. A. Allan.
 NOTE: For preliminary reports see Nos. 1170, 1218, and 1305.
- Accompanying Map:*
1445. Field, Kootenay district, British Columbia. (Map 142A.) 1915. Scale:
 2 miles to 1 inch.
1383. (E) **Memoir No. 56.** Geology of Franklin mining camp, British Columbia.
 1384. (F) Published in English 1915, and French 1917, Ottawa. 8vo. pp., English
 ix, 246, French x, 266. With maps Nos. 1286, 1381, block diagram
 No. 1382, and 48 other illustrations. By C. W. Drysdale.
 NOTE: For preliminary report see No. 1218. See also reports by
 R. W. Brock in Nos. 716 or 717, and 959.
- Accompanying Maps and Diagram:*
1286. Franklin mining camp, West Kootenay, British Columbia. (Map 97A.)
 1914. Scale: 2,000 feet to 1 inch.
1381. Mineral claims, Franklin mining camp, West Kootenay, B. C. (Map 133A.)
 1914. Scale: 2,500 feet to 1 inch.
1382. Block diagram of McKinley mine, Franklin mining camp, West Kootenay,
 B. C. (Fig. 16.) 1914. Scale: horizontal, about 13.33 feet, and ver-
 tical, about 33.3 feet, to 1 inch.

1022. (E) **Memoir No. 57.** Corundum, its occurrence, distribution, exploitation, and uses. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English ix, 377, French iv, 307. With map No. 1023, diagram 1473, and 31 other illustrations. By A. E. Barlow.
1534. (F)
- NOTE: For preliminary report see No. 899 or 900.
- Accompanying Map and Diagram:*
1023. Geological map of central Ontario showing the position of the several belts of corundum-bearing rocks. 1909. Scale: about 18 miles to 1 inch.
- †1473. Craig mine, Raglan township, Ontario. 1914. Topography. Scale: 800 feet to 1 inch.
1386. **Memoir No. 58.** Texada island, B.C. Ottawa, 1915 (dated 1914). 8vo. pp. vii, 112. With maps Nos. 1313, 1314, 1319, 1320, diagram No. 1321, plans Nos. 1346, 1347, 1348, and 10 other illustrations. By R. G. McConnell.
- NOTE: Includes report by L. M. Lambe on fossil *Pelecypoda* from Cretaceous rocks half a mile east of Cook bay. Part of the edition was issued in advance without maps Nos. 1313, 1314, and 1319. For preliminary reports see Nos. 1072, 1120, and 1305.
- Accompanying Maps, Diagram, and Plans:*
1313. Prescott, Paxton, and Lake mines, Texada island, British Columbia. (Map 109A.) 1915. Topography. Scale: 400 feet to 1 inch.
1314. Prescott, Paxton, and Lake mines, Texada island, British Columbia. (Map 110A.) 1915. Geology. Scale: 400 feet to 1 inch.
1319. Vananda, Texada island, British Columbia. (Map 111A.) 1915. Topography. Scale: 2,000 feet to 1 inch.
1320. Vananda, Texada island, British Columbia. (Map 112A.) 1915. Geology. Scale: 2,000 feet to 1 inch.
1321. Diagram showing the geology of Texada island, British Columbia. 1914. Scale: 2 miles to 1 inch.
1346. Plans of levels, Marble Bay mine, Texada island, B.C. (From surveys by management.) 1914. Scale: 120 feet to 1 inch.
1347. Plans of levels, Little Billy mine, Texada island, B.C. (From surveys by management.) 1914. Scale: 100 feet to 1 inch.
1348. Plan of 360-foot level, Cornell mine, Texada island, B.C. (From surveys by management.) 1914. Scale: 100 feet to 1 inch.
1388. (E) **Memoir No. 59.** Coal fields and coal resources of Canada. Published in English 1915, and French 1916 (dated 1915), Ottawa. 8vo. pp., English x, 174; French x, 184. With maps Nos. 1372 to 1378, and 9 other illustrations. By D. B. Dowling.
1389. (F)
- Accompanying Maps:*
1372. Coal areas of Canada. (Map 125A.) 1914. Scale about 250 miles to 1 inch.
1373. Coal fields of Nova Scotia and New Brunswick. (Map 126A.) 1914. Scale: 35 miles to 1 inch.
1374. Sydney coal field. (Map 127A.) 1914. Scale: 3 miles to 1 inch.
1375. Coal fields of Manitoba and Saskatchewan. (Map 128A.) 1914. Scale: 40 miles to 1 inch.
1376. Coal fields of Alberta and British Columbia. (Map 129A.) 1914. Scale: 40 miles to 1 inch.
1377. Geological sketch map of part of the Blairmore-Frank coal-fields, southern Alberta; also, Geological and topographical map of Crows Nest coal-fields, East Kootenay district, B.C. (Map 130A.) 1914. Scale (for each map): 4 miles to 1 inch.
- NOTE: Both maps are printed on the same sheet, which bears the number "1377", and "Map 130A." See also maps Nos. 767 and 1307.
1378. Southern Vancouver island, British Columbia. (Map 131A.) 1914. Scale: 6 miles to 1 inch. See also map No. 1123.
- NOTE: The above maps, Nos. 1372 to 1378, were reprinted by permission of the Twelfth International Geological Congress, from the atlas accompanying "Coal Resources of the World."
1398. (E) **Memoir No. 60.** Arisaig-Antigonish district, Nova Scotia. Published in English 1915 (dated 1914), and French 1916, Ottawa. 8vo. pp., English
1399. (F)

viii, 173, French viii, 184. With maps Nos. 1396 and 1397. By M. Y. Williams.

NOTE: Part of the English edition was issued in advance without the maps. For preliminary report see No. 1170.

Accompanying Maps:

1396. Arisaig, Antigonish county, Nova Scotia. (Map 137A.) 1915. Scale: $\frac{1}{2}$ mile to 1 inch.

1397. Arisaig-Antigonish, Antigonish county, Nova Scotia. (Map 138A.) 1915. Scale: 2 miles to 1 inch.

1410. (E) **Memoir No. 61.** Moose Mountain district, southern Alberta. (Second edition.) Published in English and French, 1914, Ottawa. 8vo. pp., English iii, 62, French 54. With maps Nos. 963 (reprint), 966 (reprint), and 1 other illustration. By D. D. Cairnes. See No. 968.

1362. (F)

NOTE: This is virtually a reprint, with certain verbal changes, of report No. 968 published in 1908. The term "Belly river" is substituted for "Judith river". The French edition does not bear "Mémoire No. 61" on the cover. It contains the letter of transmittal which belongs to No. 968, and the index, which is in the English edition, is omitted.

Accompanying Maps:

963. Geological and topographical map of the Moose Mountain region of the "disturbed belt", southern Alberta. (Reprint of map published in 1907 to accompany report No. 968.) 1915 (dated 1914). Scale: 2 miles to 1 inch.

966. Topographical map showing coal areas of the Moose Mountain region of the "disturbed belt", southern Alberta. (Reprint of map published in 1907 to accompany report No. 968.) 1914. Scale: 2 miles to 1 inch.

1437. **Memoir No. 62.** Abnormal types of speech in Nootka. Ottawa, 1915. 8vo. pp., i, 21. With 1 folding sheet. (Bound with No. 1439.) By E. Sapir.

NOTE: For reports on field-work see Nos. 1170 and 1503.

1439. **Memoir No. 63.** Noun reduplication in Comox, a Salish language of Vancouver island. Ottawa. 1915. 8vo. pp., iii, 53. (Bound with No. 1437.) By E. Sapir.

NOTE: The numbers on cover of separate containing Memoirs Nos. 62 and 63, and also on title-pages of each memoir, are erroneously printed "1427" and "1429". For report on field-work see No. 1170.

1451. (E) **Memoir No. 64.** Preliminary report on the clay and shale deposits of the province of Quebec. Published in English 1915, and French 1916, Ottawa. 8vo. pp., English xiv, 280, French xii, 227. With map No. 1390 and 65 other illustrations. By J. Keele.

1452. (F)

NOTE: For preliminary reports see Nos. 1305 and 1359.

Accompanying Map:

1390. Part of the province of Quebec. (Map 134A.) 1914. Outline map. Scale: 35 miles to 1 inch.

1453. (E) **Memoir No. 65.** Clay and shale deposits of the western provinces. (Part IV.) Published in English 1915, and French 1916, Ottawa. 8vo. pp., English iv, 83, French v, 90. With folding sheet (summary of tests on wet-moulded bricklets), and 31 illustrations. (Bound with No. 1455.) By H. Ries.

1454. (F)

NOTE: For preliminary report see No. 1359. For parts I, II, and III see Nos. 1204, 1279, and 1324.

1455. (E) **Memoir No. 66.** Clay and shale deposits of the western provinces. (Part V.) Published in English 1915, and French 1916, Ottawa. 8vo. pp., English ix, 74, French x, 79. With 12 illustrations. (Bound with No. 1453.) By J. Keele.

1456. (F)

NOTE: For preliminary report see No. 1359. For parts I, II, III, and IV, see Nos. 1204, 1279, 1324, and 1453.

1461. (E) **Memoir No. 67.** The Yukon-Alaska International boundary, between Poreupine and Yukon rivers. Published in English 1915 (dated 1914),

1462. (F)

and French 1917, Ottawa. 8vo. pp., English v, 161, French v, 141. With maps Nos. 1443, 1444, folding sheet (table of formations), and 18 other illustrations. By D. D. Cairnes.

NOTE: Includes reports on fossils by E. M. Kindle, L. M. Lambe, L. D. Burling, W. A. Parks, G. H. Girty, and R. Ruedemann, and list of plants by J. M. Macoun. (See also Summary Reports for 1911, 1912, and 1913.) Part of the English edition was issued in advance without the maps. For preliminary reports see Nos. 1218 and 1305.

Accompanying Maps:

1443. Yukon-Alaska International boundary, between Yukon and Porcupine rivers. (Southern sheet). (Map 140A.) 1915. Scale: about 2 miles to 1 inch.
1444. Yukon-Alaska International boundary, between Yukon and Porcupine rivers. (Northern sheet). (Map 141A.) 1915. Scale: about 2 miles to 1 inch.
1463. (E) Memoir No. 68. A geological reconnaissance between Golden and Kamloops, B.C., along the Canadian Pacific railway. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English x, 260, French xi, 275. With map No. 1446, diagrams Nos. 1447 to 1450, 1458, section No. 1457, folding sheet (correlations in the Rocky Mountain geosynclinal), and 52 other illustrations (3 of these in pocket with maps). By R. A. Daly.
1464. (F) NOTE: For preliminary reports see Nos. 1218, 1305, and 538.
- Accompanying Maps, Diagrams, and Section:*
1446. Shuswap lake, Kamloops district, British Columbia. (Map 143A.) 1915. Scale: 4 miles to 1 inch.
- NOTE: See also maps Nos. 604 and 669.
1447. Prairie hills and Dogtooth mountains. 1915. Geology. Scale: 2.6 miles to 1 inch.
- NOTE: A reprint of map No. 538h (not uniform in colours).
1448. Albert canyon. 1915. Geology. With section. Scale: 1.4 miles to 1 inch.
- NOTE: A reprint of map No. 538f (not uniform in colours).
1449. Glacier. 1915. Geology. With section. Scale: 1.9 miles to 1 inch.
- NOTE: A reprint of map No. 538i (not uniform in colours).
1450. Geology of the railway belt between Golden and Revelstoke, 1915. Scale: 10 miles to 1 inch.
- NOTE: A reprint of map 538g (not uniform in colours).
1457. Structure section of the Selkirk and Purcell mountains, from Moberly peak to Revelstoke. 1915. Horizontal and vertical scale: 2 miles to 1 inch.
- NOTE: A reprint of section No. 538c (not uniform in colours).
1458. Diagram showing major subdivisions of Cordillera and approximate distribution of Shuswap terrane, southern British Columbia. 1915. Scale: 171.5 miles to 1 inch.
- NOTE: See also map No. 538a.
1465. (E) Memoir No. 69. Coal fields of British Columbia. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English vii, 350, and errata slip (for index), French vii, 368. With map No. 1412, and diagrams Nos. 1413 to 1435. Compiled by D. B. Dowling.
1466. (F) *Accompanying Map and Diagrams:*
1412. Coal-fields of British Columbia. (Map 139A.) 1915. Scale: 35 miles to 1 inch.
1413. Crownsnest and Elk River coal-areas. (Diagram I.) 1915. Scale: about 16 miles to 1 inch.
1414. Flathead coal-areas. (Diagram II.) 1915. Scale: 2½ miles to 1 inch.
1415. Cowichan Basin and Nanaimo coal-field. (Diagram III.) 1915. Scale: 9 miles to 1 inch.
1416. Comox coal-area. (Diagram IV.) 1915. Scale: 15½ miles to 1 inch.
1417. Suquash coal-area. (Diagram V.) 1915. Scale: 71 miles to 1 inch.
1418. Quatsino Sound coal-area. (Diagram VI.) 1915. Scale: about 6 miles to 1 inch.
1419. Koskeemo coal-area. (Diagram VII.) 1915. Scale: about 2.1 miles to 1 inch.

1420. Graham Island coal-areas. (Diagram VIII.) 1915. Scale: about 13 miles to 1 inch.
1421. Kispiox and Shegunia coal-areas. (Diagram IX.) 1915. Scale: 2·2 miles to 1 inch.
1422. Telkwa River coal-areas. (Diagram X.) 1915. Scale: about 3 miles to 1 inch.
1423. Clark Fork coal-areas. (Diagram XI.) 1915. Scale: 3 miles to 1 inch.
1424. Chisholm Creek coal-area. (Diagram XII.) 1915. Scale: about 2·3 miles to 1 inch.
1425. Groundhog coal-area. (Diagram XIII.) 1915. Scale: about 7·6 miles to 1 inch.
1426. Atlin coal-areas. (Diagram XIV.) 1915. Scale: about 31 miles to 1 inch.
1427. Peace River coal-area. (Diagram XV.) 1915. Scale: about 8·6 miles to 1 inch.
- NOTE: By mistake, the number of this map "1427" was also printed on Memoir 62 (No. 1437).
1428. White Lake coal-area. (Diagram XVI.) 1915. Scale: about 6 miles to 1 inch.
1429. Princeton coal-area. (Diagram XVII.) 1915. Scale: 2½ miles to 1 inch.
- NOTE: By mistake, the number of this map "1429" was also printed on Memoir 63 (No. 1439).
1430. Tulameen coal-area. (Diagram XVIII.) 1915. Scale: 1 mile to 1 inch.
1431. Nicola and Quilchena coal-areas. (Diagram XIX.) 1915. Scale: about 11½ miles to 1 inch.
1432. Kamloops Lake coal-areas. (Diagram XX.) 1915. Scale: 4 miles to 1 inch.
1433. Hat Creek coal-areas. (Diagram XXI.) 1915. Scale: about 5 miles to 1 inch.
1434. Coal Creek (North Thompson river) coal-area. (Diagram XXII.) 1915. Scale: about 4½ miles to 1 inch.
1435. Liard River coal-areas. (Diagram XXIII.) 1915. Scale: about 40 miles to 1 inch.
- †1469. **Memoir No. 70.** Family hunting territories and social life of various Algonkian bands of the Ottawa valley. Ottawa, 1915. 8vo. pp., iii, 30. With map No. 1479 and 5 folding sheets. (Bound with No. 1470.) By F. G. Speck.
- Accompanying Map:*
1479. Hunting territories of the Timagami, Timiskaming, Kipawa, and Dumoine Indian bands. (Map 144A.) 1915 (dated 1914). Scale: 16 miles to 1 inch.
- †1470. **Memoir No. 71.** Myths and folk-lore of the Timiskaming Algonquin and Timagami Ojibwa. Ottawa, 1915. 8vo. pp., v, 87. With map No. 1479 (see above), 2 other illustrations, and appendix. (Bound with No. 1469.) By F. G. Speck.
- Appendix. Notes on Timagami folk-lore. By N. C. Fergusson.
1485. (E) **Memoir No. 72.** The artesian wells of Montreal. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English vii, 153, French viii, 159. With diagram No. 1490, 5 folding sheets (list of wells and list of analyses), and 6 other illustrations. By C. L. Cumming.
1486. (F) NOTE: Part of the English edition was issued in advance without the diagram.
- Accompanying Diagram:*
1490. Diagram of the city of Montreal and vicinity, showing location of artesian wells. 1915. Scale: 2,400 feet to 1 inch.
1487. **Memoir No. 73.** The Pleistocene and Recent deposits of the island of Montreal. Ottawa, 1915. 8vo. pp., vi, 80. With maps Nos. 1531, 1532, and 13 other illustrations. By J. Stansfield.
- NOTE: Part of the edition was issued in advance without the maps.
- Accompanying Maps:*
1531. Island of Montreal, Quebec. (Map 148A.) 1916. Scale: about 1·1 miles to 1 inch.
1532. City of Montreal, Quebec. (Map 149A.) 1916. Scale: 0·40 mile to 1 inch.

1497. **Memoir No. 74.** A list of Canadian mineral occurrences. Ottawa, 1915. 8vo. pp., v, 275. By R. A. A. Johnston.
1499. (E) **Memoir No. 75.** Decorative art of Indian tribes of Connecticut. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English iv, 73, 1500. (F) French iv, 71. With 112 illustrations. By F. G. Speck.
1505. **Memoir No. 76.** Geology of Cranbrook map-area, British Columbia. Ottawa, 1915. 8vo. pp., ix, 245. With map No. 1528, folding sheet (general correlation table), and 53 other illustrations. By S. J. Schofield.
NOTE: Part of the edition was issued in advance without the map. For preliminary reports see Nos. 1120, 1170, 1218, 1305, and 1359.
Accompanying Map:
1528.) Cranbrook, Kootenay district, British Columbia. (Map 174A.) 1915. Scale: 4 miles to 1 inch.
1520. (E) **Memoir No. 77.** Geology and ore deposits of Rossland, British Columbia. 1521. (F) Published in English 1915, and French 1917, Ottawa. 8vo. pp., English xv, 317, French xv, 369. With maps Nos. 1001 (reprint), 1002, 1003 (reprint), 1004, 1496, plans Nos. 1518, 1549, 1550, sections Nos. 1547, 1548, 1551, folding sheet (monthly mean temperature), and 57 other illustrations. By C. W. Drysdale.
NOTE: For preliminary report see No. 1359. For work by R. G. McConnell see Nos. 552 or 553, 582 or 583, 613 or 614; and by R. W. Brock Nos. 939, 959, 1017, 1072, and 1120.
Accompanying Maps, Plans, and Sections:
1001. Special map of Rossland, British Columbia. Topographical sheet. 1915 [Reprint]. Scale: 400 feet to 1 inch.
NOTE: The first edition of this map was published separately in 1908.
1002. Special map of Rossland, British Columbia. Geological sheet. 1909. Scale: 400 feet to 1 inch.
1003. Rossland mining camp, British Columbia. Topographical sheet. 1915 [Reprint]. Scale: 1,200 feet to 1 inch.
NOTE: The first edition of this map was published separately in 1908.
1004. Rossland mining camp, British Columbia. Geological sheet. 1909. Scale: 1,200 feet to 1 inch.
1496. Stereograms of a block of ore-bearing country, Rossland, B.C. (Map 146A.) 1915. Horizontal and vertical scales: 400 feet to 1 inch.
1518. Geological plan of the principal mines at Rossland, B.C., with accompanying sections. 1915. Scale: 200 feet to 1 inch.
1549. Plan of 450-foot level (elevation 3,451 feet above sea-level), LeRoi mine, Rossland, B.C. 1915. Scale: about 250 feet to 1 inch.
NOTE: On the printed scale "200" and "300" should read "300" and "400" respectively.
1550. Plan of 850-foot level, White Bear mine, Rossland, B.C. 1915. Scale: about 182 feet to 1 inch.
1547. Longitudinal projection of Centre Star mine, Rossland, B.C. 1915. Scale: about 476 feet to 1 inch.
1548. Longitudinal projection of Columbia-Kootenay mine, Rossland, B.C. 1915. Scale: about 333 feet to 1 inch.
1551. Hypothetical sections illustrating the progressive development of the geological structure at Rossland, B.C. (Line of section east-west, 400 feet north of War Eagle shaft). 1915. Vertical and horizontal scale: about 8,600 feet to 1 inch.
1545. **Memoir No. 78.** Wabana iron ore of Newfoundland. Ottawa, 1915. 8vo. pp., vi, 163. With 4 folding sheets (map, plan, and sections), and 47 other illustrations. By A. O. Hayes.
1537. **Memoir No. 79.** Ore deposits of the Beaverdell map-area. Ottawa, 1915. 8vo. pp., vii, 178. With map No. 1183, diagram No. 1530, and 25 other illustrations. By L. Reinecke.
NOTE: Part of the edition was issued in advance without map No. 1183. Mr. Reinecke's report on the physiography of the same area

is contained in Museum Bulletin No. 11. (See No. 1508.) For preliminary reports see Nos. 1120, 1170, and 1218.

- Accompanying Maps:*
1183. Beaverdell, Yale district, British Columbia. (Map 37A.) 1916 (dated 1915). Geology. Scale: about 1 mile to 1 inch.
NOTE: "West fork of Kettle river", appearing on the topographical edition (No. 1182) of this map (in southwest corner) was changed in the geological edition (No. 1183) to read "West Kettle river".
1530. Silver-lead mines on Wallace mountain. 1915. Geology. Scale: 1,250 feet to 1 inch.
1554. **Memoir No. 80.** Huron and Wyandot mythology, with an appendix containing earlier published records. Ottawa, 1915. 8vo. pp., xvi, 437. With 23 illustrations, and abstracts of contents. By C. M. Barbeau.
Appendix: I. Myths. II. Folk tales. III. Traditions and anecdotes.
NOTE: For reports on field-work see Nos. 1218 and 1305.
1561. (E) **Memoir No. 81.** The oil and gas fields of Ontario and Quebec. Published in English 1915, and French 1917, Ottawa. 8vo. pp., English iv, 248, French iv, 254. With 3 folding sheets (analyses of gases and logs of wells). [Compiled] by W. Malcolm.
1562. (F)
1572. **Memoir No. 82.** Rainy River district, Ontario. Surficial geology and soils. Ottawa, 1915. 8vo. pp., vi, 123. With map No. 1379 and 13 other illustrations. By W. A. Johnston.
NOTE: Part of the edition was issued in advance without the map. For preliminary reports see Nos. 1359 and 1503.
- Accompanying Map:*
1379. Southwestern portion of Rainy River district, Ontario. (Map 132A.) 1918. Scale: 2 miles to 1 inch.
1591. **Memoir No. 83.** Upper Ordovician formations in Ontario and Quebec. Ottawa, 1916. 8vo. pp., x, 279. With 8 illustrations. By A. F. Foerste.
1602. **Memoir No. 84.** An exploration of the Tazin and Taltson rivers, North West Territories. Ottawa, 1916. 8vo. pp., v, 124. With map No. 1644 and 18 other illustrations. By C. Camsell.
NOTE: Part of the edition was issued in advance without the map. For preliminary report see No. 1503.
- Accompanying Map:*
1644. Explored routes between lake Athabaska and Great Slave lake on the Tazin, Taltson, Slave, and Peace rivers, Alberta, Saskatchewan, and North West Territories. (Map 186A.) 1917. Scale: 8 miles to 1 inch.
1614. **Memoir No. 85.** Road material surveys in 1914. Ottawa, 1916. 8vo. pp., xi, 244. With maps Nos. 1586 to 1590, folding sheet (tests on diabase and basalt), and 18 other illustrations. By L. Reinecke.
NOTE: This memoir contains five parts, which have been published also as separates. See below, Nos. 1625-1627. For preliminary report see No. 1503.
- Accompanying Maps:*
1586. Lines of transportation in southern Ontario. (Map 169A.) 1916. Scale: 35 miles to 1 inch. (Also with No. 1627.)
1587. Trap deposits on the north shore of lake Huron, Ontario. (Map 170A.) 1916. Scale: 4 miles to 1 inch. (Also with No. 1627.)
1588. Road metal deposits in Essex county, Ontario. (Map 171A.) 1916. Scale: 4 miles to 1 inch. (Also with No. 1626.)
1589. Road metal deposits in Kent county, Ontario. (Map 172A.) 1916. Scale: 4 miles to 1 inch. (Also with No. 1626.)
1590. Sand and gravel deposits along the north shore of lake Ontario, Ontario. (Map 173A.) 1916. Scale: 4 miles to 1 inch. (Also with No. 1625.)
1627. Road material surveys in 1914. Parts I and II of Memoir 85. Ottawa, 1916. 8vo. pp., iii, 83. With maps Nos. 1586, 1587, folding sheet, and 8 other illustrations. By L. Reinecke.
Contains:

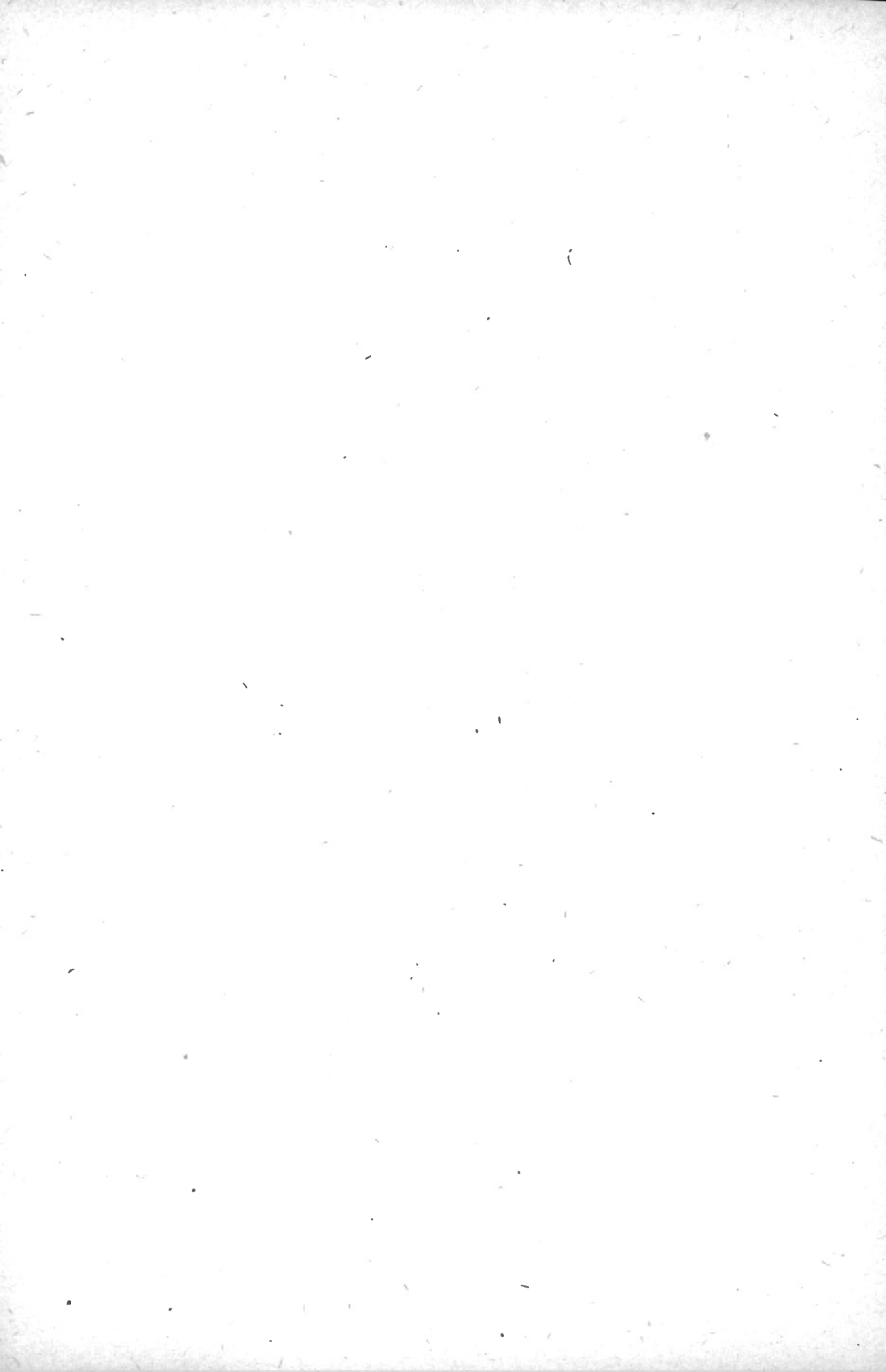
- Part I. Roads and the materials used in their construction.
Part II. Deposits of diabase along the north shore of lake Huron.
1626. Road material surveys in 1914. Parts I, III, and IV, of Memoir 85. Ottawa, 1916. 8vo. pp., iii, 137. With maps Nos. 1588, 1589, and 6 other illustrations. By L. Reinecke.
Contains:
Part I. Roads and the materials used in their construction.
Part III. Road materials in Essex county.
Part IV. Road materials in Kent county.
1625. Road material surveys in 1914. Parts I and V of Memoir 85. Ottawa, 1916. 8vo. pp. ii, 217. With map No. 1590 and 8 other illustrations. By L. Reinecke.
Contains:
Part I. Roads and the materials used in their construction.
Part V. Road materials along the north shore of lake Ontario between Port Hope and Hamilton.
1612. **Memoir No. 86.** Iroquois foods and food preparation. Ottawa, 1916. 8vo. pp., vii, 235. With 150 illustrations. By F. W. Waugh.
NOTE: The word "Iroquois" is misprinted "Iroquis" on title-page. For reports on field-work see Nos. 1305, 1359, 1503, and 1616.
1039. **Memoir No. 87.** Geology of a portion of the Flathead coal area, British Columbia. Ottawa, 1916. 8vo. pp. iv, 53. With maps Nos. 1583, 1629, and 2 other illustrations. By J. D. MacKenzie.
NOTE: Part of the edition was issued in advance without the maps. For preliminary report see No. 1503. For work by D. B. Dowling see No. 1359.
- Accompanying Maps:*
1583. Portion of Flathead coal area, Kootenay district, British Columbia. (Map 166A.) 1917. Topography. Scale: about 1 mile to 1 inch.
NOTE: A limited number of special photographic copies of the manuscript map were issued by the topographic division. Scale 4,000 feet to 1 inch.
1629. Portion of Flathead coal area, Kootenay district, British Columbia. (Map 182A.) 1917. Geology. Scale: about 1 mile to 1 inch.
1622. **Memoir No. 88.** Geology of Graham island, British Columbia. Ottawa, 1916. 8vo. pp. x, 221. With maps Nos. 1597, 1598, folding sheet (table of formations), and 50 other illustrations. By J. D. MacKenzie
NOTE: Part of the edition was issued in advance without the maps. For preliminary reports see Nos. 1359 and 1503. For work by C. H. Clapp see No. 1305.
- Accompanying Maps:*
1597. Graham island, Queen Charlotte islands, British Columbia. (Map 176A.) 1916. Scale: 4 miles to 1 inch.
1598. Southern portion of Graham island, Queen Charlotte islands, British Columbia. (Map 177A.) 1916. Scale: 2 miles to 1 inch.
1138. **Memoir No. 89.** Wood Mountain-Willowbunch coal area, Saskatchewan. Ottawa, 1916. 8vo. pp. iv, 103. With map No. 1628 and 9 other illustrations. By B. Rose.
NOTE: For preliminary reports see Nos. 1359 and 1503.
- Accompanying Map:*
1628. Wood Mountain-Willowbunch coal area, Saskatchewan. (Map 181A.) 1916. Scale: 4 miles to 1 inch.
NOTE: See also maps Nos. 1338 and 1350.
1635. **Memoir No. 90.** Time perspective in aboriginal American culture, a study in method. Ottawa, 1916. 8vo. pp. iv, 87. By E. Sapir.
1637. **Memoir No. 91.** The Labrador Eskimo. Ottawa, 1917 (dated 1916). 8vo. pp. xii, 235. With map No. 1560 and 185 other illustrations. By E. W. Hawkes.
- Accompanying Map:*
1560. Eskimo tribes of the Labrador peninsula. (Map 156A.) 1916. Scale: 100 miles to 1 inch.

1642. **Memoir No. 92.** Part of the district of lake St. John, Quebec. Ottawa, 1916. 8vo. pp. v, 88. With map No. 1634 and 10 other illustrations. By J. A. Dresser.
NOTE : Contains report by P. E. Raymond on fossils from lake St. John. For preliminary report see No. 1616.
Accompanying Map:
1634. Roberval, Lake St. John county, Quebec. (Map 184A.) 1916. Scale: 2 miles to 1 inch.
1648. **Memoir No. 93.** The southern plains of Alberta. Ottawa, 1917. 8vo. pp. iv, 200. With map No. 1645, views of model Nos. 1646 and 1647, and 116 other illustrations. By D. B. Dowling.
Accompanying Maps, etc.:
1645. Southern plains of Alberta. (Map 187A.) 1917. Scale: about 8 miles to 1 inch.
1646. View of model of the southern plains of Alberta (from northwest). 1917.
1647. View of model of the southern plains of Alberta (from southeast). 1917.
1651. **Memoir No. 94.** Ymir mining camp, British Columbia. Ottawa, 1917. 8vo. pp. ix, 185. With map No. 1594, diagrams Nos. 1631, 1632, 1633, folding sheet, and 34 other illustrations. By C. W. Drysdale.
NOTE : Includes list of plants by J. M. Macoun. For preliminary report see No. 1503.
Accompanying Maps and Diagrams:
1594. Ymir, Kootenay district, British Columbia. (Map 175A.) With two sections. 1916. Scale: 1 mile to 1 inch.
1631. Block diagram of the Tamarac fissure vein, showing structural relations of the ore shoots. 1916. Scale: about 80 feet to 1 inch.
1632. Stereogram of Wilcox mine and adjoining properties, showing geological relations of main veins and claim boundaries. Contour interval 200 feet. 1916. Horizontal scale: front 634.9 feet to 1 inch, side 485 feet to 1 inch. Vertical scale: 608.7 feet to 1 inch.
1633. Stereogram of Porto Rico contact vein. Showing the relations of the vein to kersantite dyke and porphyrite sills. 1916. Horizontal scale: front 236.4 feet to 1 inch, side 384.6 feet to 1 inch. Vertical scale: 218.6 feet to 1 inch.
1655. **Memoir No. 95.** Onaping map-area. Ottawa, 1917. 8vo. pp. vi, 157. With maps Nos. 1544, 1621, and 32 other illustrations. By W. H. Collins.
NOTE : Part of the edition was issued in advance without map No. 1621. For preliminary reports see Nos. 1218 and 1305.
Accompanying Maps:
1544. Asquith and Churchill townships, Sudbury district, Ontario. (Map 153A.) 1916. Scale: 1 mile to 1 inch.
1621. Onaping, Sudbury and Timiskaming districts, Ontario. (Map 179A.) 1917. Scale: 4 miles to 1 inch.
NOTE : This is sheet No. 139 of the Ontario series of maps.
1660. **Memoir No. 96.** Sooke and Duncan map-areas, Vancouver island, by C. H. Clapp, with sections on the Sicker series and the gabbros of East Sooke and Rocky point, by H. C. Cooke. Ottawa, 1917. 8vo. pp. xi, 445. With maps Nos. 1191 to 1194, 1567, 1654, and 17 other illustrations.
NOTE : Part of the edition was issued in advance without maps Nos. 1192 and 1194. For preliminary report see No. 1359.
Accompanying Maps:
1191. Duncan sheet, Vancouver island, British Columbia. (Map 41A.) 1915. Topography. Scale: about 2 miles to 1 inch.
NOTE : Re-issued, 1917. An advance photographic edition of this map was published in 1911.
1192. Duncan sheet, Vancouver island, British Columbia. (Map 42A.) 1918 (dated 1917). Geology. Scale: about 2 miles to 1 inch.
1193. Sooke sheet, Vancouver island, British Columbia. (Map 43A.) 1914. Topography. Scale: about 2 miles to 1 inch.
NOTE : An advance photographic edition of this map was published in 1911.

1194. Sooke sheet, Vancouver island, British Columbia. (Map 44A.) 1918.
Geology. Scale: about 2 miles to 1 inch.
1567. East Sooke, Vancouver island, British Columbia. (Map 157A.) 1917.
Topography. Scale: 2,000 feet to 1 inch.
1654. East Sooke, Vancouver island, British Columbia. (Map 167A.) 1917.
Geology. Scale: 2,000 feet to 1 inch.
1664. **Memoir No. 97.** Scroggie, Barker, Thistle, and Kirkman creeks, Yukon Territory. Ottawa, 1917. 8vo. pp. iii, 47. With map No. 1618 and 8 other illustrations. By D. D. Cairnes.
NOTE: For preliminary report see No. 1616.
Accompanying Map:
1618. Scroggie, Barker, Thistle, and Kirkman creeks, tributaries to Stewart and Yukon rivers, Yukon Territory. (Map 178A.) 1916. Scale: 4 miles to 1 inch.
1685. **Memoir No. 98.** Magnesite deposits of Grenville district, Argenteuil county, Quebec. Ottawa, 1917. 8vo. pp. v, 88. With diagrams Nos. 1674, 1675, 1679, and 15 other illustrations. By M. E. Wilson.
Accompanying Diagrams:
1674. Diagram showing magnesite deposits, lots 15, ranges IX and X, Grenville township, Argenteuil county, Quebec. [1917.] Scale: 200 feet to 1 inch.
1675. Diagram showing magnesite deposits, lot 15, range XI, Grenville township, Argenteuil county, Quebec. [1917.] Scale: 200 feet to 1 inch.
NOTE: The above two diagrams are reprints of the editions issued to accompany Summarty Report, 1916.
1679. Diagram showing magnesite outcrops in Grenville township, Argenteuil county, Quebec. [1917.] Scale: 60 feet to 1 inch.



PART IV.
MUSEUM BULLETINS.



PART IV.

MUSEUM BULLETINS.

The first Bulletin, published in 1913, was entitled "Victoria Memorial Museum Bulletin"; subsequent issues have been called "Museum Bulletins."

The Museum Bulletins published to date have been divided into three series—Geological, Biological, and Anthropological. All have the title of the series and the series number printed on them (e.g. "Biological Series, No. 6.") in addition to the bulletin number, except Bulletins Nos. 1 and 2. These contain articles on various subjects, to each of which a separate series number has been assigned.

The following list gives the Museum Bulletins published to date, arranged according to series, and preceded by their corresponding series numbers.

GEOLOGICAL SERIES.

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| 1. Bulletin No. 1, part I. | 18. Bulletin No. 2, part VII. |
| 2. Bulletin No. 1, part II. | 19. Bulletin No. 3. |
| 3. Bulletin No. 1, part III. | 20. Bulletin No. 4. |
| 4. Bulletin No. 1, part IV. | 21. Bulletin No. 5. |
| 5. Bulletin No. 1, part V. | 22. Bulletin No. 8. |
| 6. Bulletin No. 1, part VI. | 23. Bulletin No. 11. |
| 7. Bulletin No. 1, part VII. | 24. Bulletin No. 12. |
| 8. Bulletin No. 1, part VIII. | 25. Bulletin No. 14. |
| 9. Bulletin No. 1, part IX. | 26. Bulletin No. 15. |
| 10. Bulletin No. 1, part X. | 27. Bulletin No. 17. |
| 11. Bulletin No. 1, part XI. | 28. Bulletin No. 18. |
| 12. Bulletin No. 1, part XII. | 29. Bulletin No. 20. |
| 13. Bulletin No. 2, part I. | 30. Bulletin No. 21. |
| 14. Bulletin No. 2, part II. | 31. Bulletin No. 22. |
| 15. Bulletin No. 2, part III. | 32. Bulletin No. 23. |
| 16. Bulletin No. 2, part V. | 33. Bulletin No. 24. |
| 17. Bulletin No. 2, part VI. | 34. Bulletin No. 25. |

BIOLOGICAL SERIES.

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| 1. Bulletin No. 1, part XIII. | 4. Bulletin No. 7. |
| 2. Bulletin No. 1, part XIV. | 5. Bulletin No. 13. |
| 3. Bulletin No. 1, parts XV and XVI. | 6. Bulletin No. 26. |

ANTHROPOLOGICAL SERIES.

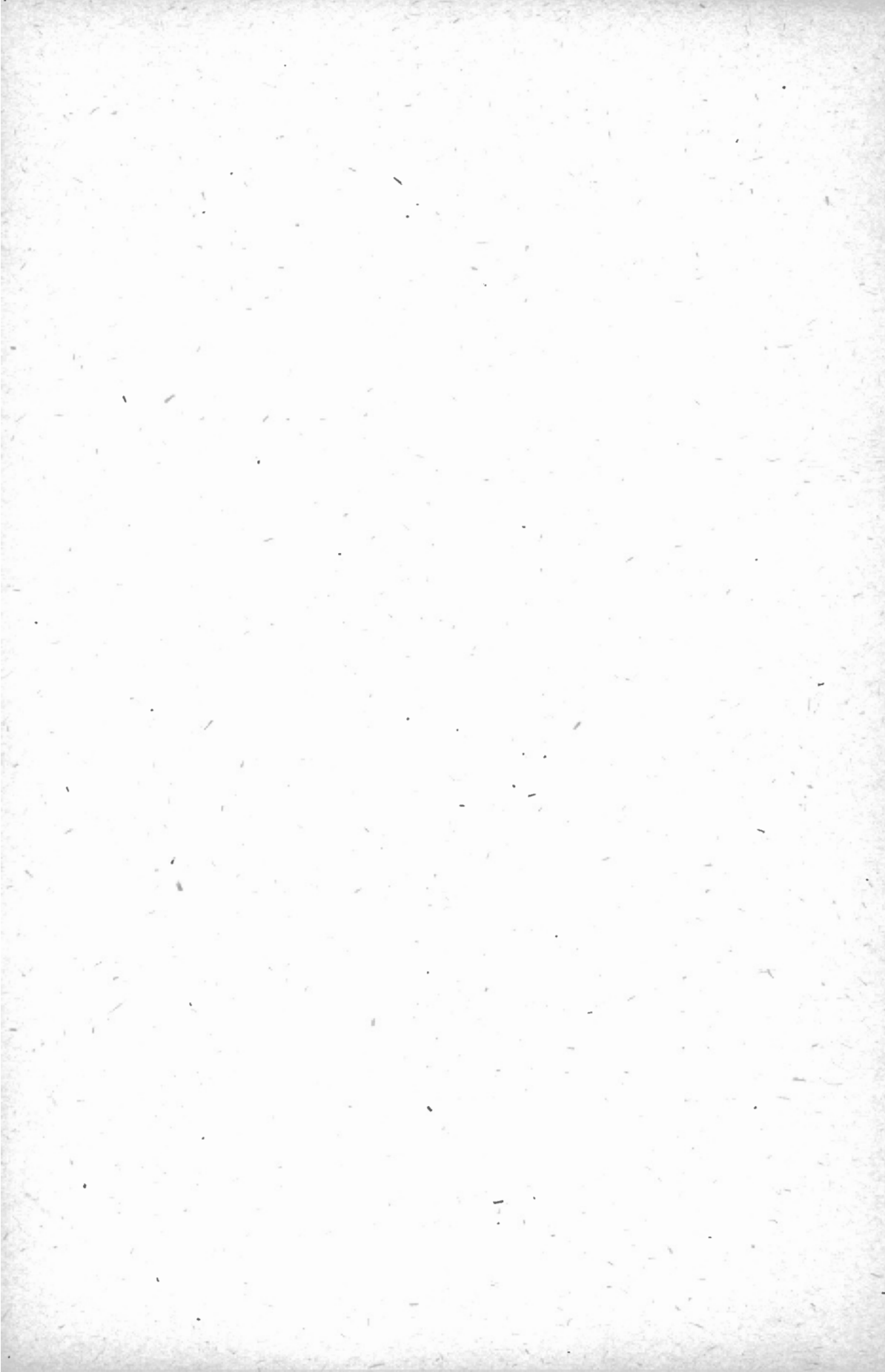
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| 1. Bulletin No. 1, part XVII. | 5. Bulletin No. 10. |
| 2. Bulletin No. 2, part IV. | 6. Bulletin No. 16. |
| 3. Bulletin No. 6. | 7. Bulletin No. 19. |
| 4. Bulletin No. 9. | |

1240. (E) **Victoria Memorial Museum. Bulletin No. 1.** Published in English
 †1515. (F) Oct. 21 (dated Oct. 23), 1913, and French 1915. Ottawa. 8vo. pp.,
 English iv, 200, French vi, 226. With 87 illustrations.
 NOTE: A limited author's edition was printed of each paper,
 without repaging, and issued December 28, 1913.
 Contains:
- PALÆONTOLOGY.
- †1240a. I. The Trenton crinoid, *Ottawacrinus* (W. R. Billings). With 9 illustrations.
 By F. A. Bather.
 II. Note on *Merocrinus* (Walcott). By F. A. Bather.
 NOTE: Parts I and II are bound together (No. 1240a). pp. 1-16.
 Important note (p. 12) refers to both parts.
- †1240b. III. The occurrence of Helodont teeth at Roche Miette and vicinity,
 Alberta. pp. 17-22. With 5 illustrations. See also notes in No.
 1218 [xv]. By L. M. Lambe.
- †1240c. IV. Notes on *Cyclocystoides*. With 6 illustrations. By P. E. Raymond.
 V. Notes on some new and old trilobites in the Victoria Memorial Museum.
 With 10 illustrations. By P. E. Raymond.
 VI. Description of some new *Asaphida*. With 8 illustrations. By P. E.
 Raymond.
 VII. Two new species of *Tetradium*. With 4 illustrations. By P. E.
 Raymond.
 VIII. A revision of the species which have been referred to the genus
Bathyurus. Preliminary paper. With 20 illustrations. By P. E.
 Raymond.
 NOTE: Parts IV to VIII are bound together (No. 1240c.). pp.
 23-80.
- †1240d. IX. A new brachiopod from the base of the Utica. pp. 81-86. With
 3 illustrations. By A. E. Wilson.
- †1240e. PALÆOBOTANY.
 X. A new genus of dicotyledonous plant from the Tertiary of Kettle river,
 British Columbia. With 2 illustrations. By W. J. Wilson.
 XI. A new species of *Lepidostrobus*. With 3 illustrations. By W. J.
 Wilson.
 NOTE: Parts X and XI are bound together (No. 1240e). pp.
 87-94.
- †1240f. MINERALOGY.
 XII. Prehnite from Adams sound, Admiralty inlet, Baffin island, Franklin.
 pp. 95-98. By R. A. A. Johnston.
- †1240g. NATURAL HISTORY.
 XIII. The marine *Algæ* of Vancouver island. pp. 99-137. By F. S.
 Collins.
- †1240h. XIV. New species of mollusks from the Atlantic and Pacific coasts of
 Canada. pp. 139-146. With 6 illustrations. By W. H. Dall and P.
 Bartsch.
- †1240i. XV. Hydroids from Vancouver island. By C. McL. Fraser.
 XVI. Hydroids from Nova Scotia. With 10 illustrations. By C. McL.
 Fraser.
 NOTE: Parts XV and XVI are bound together (No. 1240i) with
 cover-title: "Hydroids from Vancouver island and Nova Scotia."
 pp. 147-186.
- †1240j. ANTHROPOLOGY.
 XVII. The archæology of Blandford township, Oxford county, Ontario.
 pp. 187-200. With 1 illustration. By W. J. Wintemberg.
1342. (E) **Museum Bulletin No. 2.** Published in English July 30, 1914, and French
 1343. (F) July 26 (dated June 15), 1916. Ottawa. 8vo. pp., English iii, 140,
 French iii, 149. With 4 folding sheets (sections and correlation tables)
 and 51 illustrations.
 NOTE: The parts (English edition) were also issued as separates,
 with separate pagination and numbered "1342." Through error,
 publication number on title-page of complete Bulletin reads "134."
 Contains:
- PETROLOGY.
- 1342a. I. The origin of granite (micropegmatite) in the Purcell sills. June 5,
 1914. pp. 34. With 6 illustrations. By S. J. Schofield.

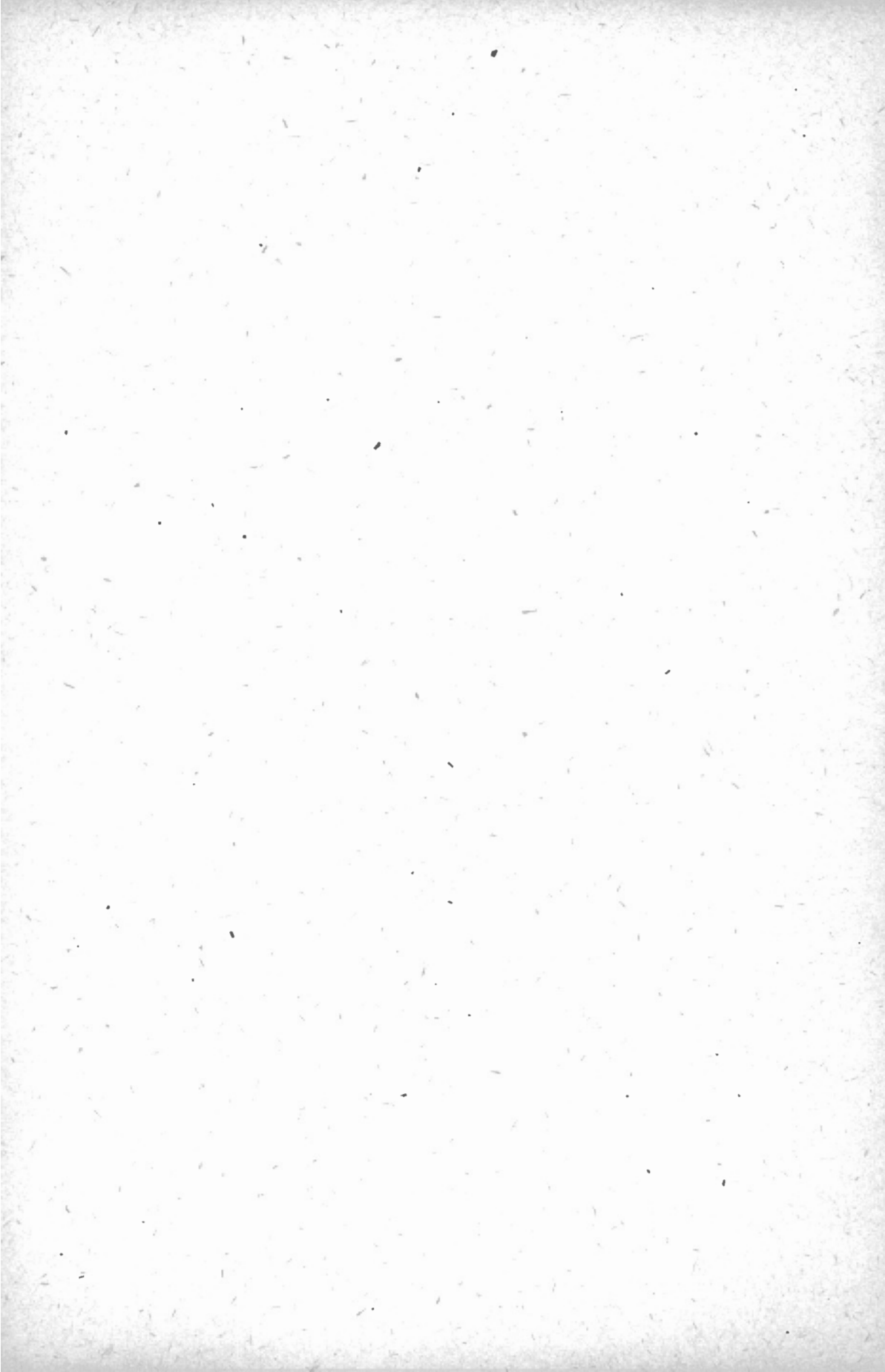
- 1342b. II. Columnar structure in limestone. June 17, 1914. pp. 10. With 3 illustrations. By E. M. Kindle.
- PHYSICAL GEOGRAPHY.
- 1342c. III. Supposed evidences of subsidence of the coast of New Brunswick within modern time. June 19, 1914. pp. 23. With 2 illustrations. By J. W. Goldthwait.
- ANTHROPOLOGY.
- 1342d. IV. Some aspects of puberty fasting among the Ojibwa. June 22, 1914. pp. 10. By P. Radin.
- GEOLOGY.
- 1342e. V. The Pre-Cambrian (Beltian) rocks of southeastern British Columbia and their correlation. July 3, 1914. pp. 13. With 4 folding sheets (sections and correlation tables) and 1 illustration. By S. J. Schofield.
- PALAEONTOLOGY.
- 1342f. VI. Early Cambrian stratigraphy in the North American Cordillera, with discussion of *Albertella* and related faunas. July 6, 1914. pp. 37. By L. D. Burling.
- 1342g. VII. A preliminary study of the variations of the plications of *Parastrophia hemiplicata*, Hall. July 11, 1914. pp. 10. With 39 illustrations. By A. E. Wilson.
1441. **Museum Bulletin No. 3.** The Anticosti Island faunas. Ottawa, November 17 (dated Oct. 30), 1914. 8vo. pp. 39. With 15 illustrations. By W. H. Twenhofel.
1459. **Museum Bulletin No. 4.** The Crowsnest volcanics. Ottawa, November 24 (dated Nov. 19), 1914. 8vo. pp. i, 37. With 2 illustrations. By J. D. MacKenzie.
1467. **Museum Bulletin No. 5.** A *Beatricea*-like organism from the middle Ordovician. Ottawa, December 4 (dated Nov. 23), 1914. 8vo. pp. 19. With 16 illustrations. By P. E. Raymond.
1476. **Museum Bulletin No. 6.** Prehistoric and present commerce among the Arctic Coast Eskimo. Ottawa, January 8, 1915 (dated Dec. 30, 1914). 8vo. pp. 29. With map No. 1302. By V. Stefánsson.
- Accompanying Map:*
1302. Eskimo trade routes, Arctic coast, Canada. (Map 102A.) 1914. Scale: about 244 miles to 1 inch.
1482. **Museum Bulletin No. 7.** A new species of *Dendragapus* (*Dendragapus obscurus flemingi*), from southern Yukon Territory. Ottawa, December 19 (dated Dec. 20), 1914. 8vo. pp. 4. By P. A. Taverner.
1483. (E) **Museum Bulletin No. 8.** The Huronian formations of Timiskaming region, Canada. Published in English December 28, 1914, and French 1916, Ottawa. 8vo. pp., English 31, French 30. With 2 folding sheets (correlation tables and sections) and 3 illustrations. By W. H. Collins.
1484. (F)
1492. **Museum Bulletin No. 9.** The glenoid fossa in the skull of the Eskimo. Ottawa, March 12 (dated Mar. 6), 1915. 8vo. pp. 25. With 16 illustrations. By F. H. S. Knowles.
- †1501. **Museum Bulletin No. 10.** The social organization of the Winnebago Indians. An interpretation. Ottawa, May 16 (dated May 20), 1915. 8vo. pp. i, 40. With 2 illustrations. By P. Radin.
1508. **Museum Bulletin No. 11.** Physiography of the Beaverdell map-area and the southern part of the interior plateaus of British Columbia. Ottawa, May 15 (dated April 30), 1915. 8vo. pp. i, 58. With maps Nos. 1182, 1307, folding sheet of sections, and 6 other-illustrations. By L. Reinecke.
- NOTE: Memoir No. 79 (No. 1537) describes the ore-deposits of the Beaverdell map-area.
- Accompanying Maps:*
1182. Beaverdell, Yale district, British Columbia. (Map 36A.) 1912 (dated 1911). Topography. Scale: about 1 mile to 1 inch.
- NOTE: An advance photographic edition of this map was published in 1911.

1507. Index map. [Showing positions of Beaverdell, Tulameen, Kamloops, and Shuswap map-areas and boundary of interior plateaus.] [1915.] Scale: 100 miles to 1 inch.
1510. **Museum Bulletin No. 12.** On *Ecoceratops canadensis*, gen. nov., with remarks on other genera of Cretaceous horned dinosaurs. Ottawa, May 27 (dated May 7), 1915. 8vo. pp. 49. With 24 illustrations. By L. M. Lambe.
1513. **Museum Bulletin No. 13.** The double-crested cormorant (*Phalacrocorax auritus*) and its relation to the salmon industries on the gulf of St. Lawrence. Ottawa, May 8 (dated April 30), 1915. 8vo. pp. 24. With 2 illustrations. By P. A. Taverner.
1516. **Museum Bulletin No. 14.** The occurrence of glacial drift on the Magdalen islands. Ottawa, May 20 (dated May 12), 1915. 8vo. pp. ii, 11. With diagram No. 1478 and 2 other illustrations. By J. W. Goldthwait.
- †1478. *Accompanying Diagram:*
Diagram showing St. Lawrence submerged coastal plain. [1915.] Scale: about 21 miles to 1 inch.
1533. **Museum Bulletin No. 15.** Gay Gulch and Skookum meteorites. Ottawa, June 30, 1915. 8vo. pp. 31. With diagram No. 1489 and 12 other illustrations. By R. A. A. Johnston.
- †1489. *Accompanying Diagram:*
Diagram of Bonanza creek, Yukon, showing localities of discovery of Gay Gulch and Skookum meteorites. [1915.] Scale: 2 miles to 1 inch.
1535. **Museum Bulletin No. 16.** Literary aspects of North American mythology. Ottawa, June 17 (dated June 15), 1915. 8vo. pp. i, 51. By P. Radin.
1542. **Museum Bulletin No. 17.** The Ordovician rocks of lake Timiskaming. Ottawa, June 10 (dated June 7), 1915. 8vo. pp. 9. With 3 illustrations. By M. Y. Williams.
1558. **Museum Bulletin No. 18.** Structural relations of the Pre-Cambrian and Palaeozoic rocks north of the Ottawa and St. Lawrence valleys. Ottawa, August 12 (dated July 23), 1915. 8vo. pp. ii, 23. With diagrams Nos. 1522 to 1527, and 5 other illustrations. By E. M. Kindle and L. D. Burling.
- †1522. *Accompanying Diagrams:*
Escarpment topography east of Montebello, Quebec. [1915.] Scale: 1 mile to 1 inch.
- †1523. Outline map of the Ottawa district, showing principal faults and lines of cross-sections. [1915.] Scale: about 9.2 miles to 1 inch.
- †1524. Cross-section from Kings mountain through Aylmer, Quebec. [1915.] Horizontal scale: about 3 miles to 1 inch.
- †1525. Cross-section to Vars, Ontario, from the Laurentian plateau near Montebello, Quebec. [1915.] Horizontal scale: about 10 miles to 1 inch.
- †1526. Sketch map showing location of Laurentian Plateau fault and of lake Erie and Montebello section. [1915.] Scale: about 128 miles to 1 inch.
- †1527. Cross-section from the Laurentian plateau to lake Erie at St. Thomas, Ontario. The line of section in the Ontario peninsula is about normal to the strike. [1915.] Horizontal scale: about 30 miles to 1 inch.
1565. **Museum Bulletin No. 19.** A sketch of the social-organization of the Nass River Indians. Ottawa, October 23 (dated Oct. 15), 1915. 8vo. pp. i, 30. With 1 illustration. By E. Sapir.
- †1574. **Museum Bulletin No. 20.** An eurypterid horizon in the Niagara formation of Ontario. Ottawa, October 20 (dated Oct. 8), 1915. 8vo. pp. 21. With 24 illustrations. By M. Y. Williams.
1576. **Museum Bulletin No. 21.** Notes on the geology and palaeontology of the lower Saskatchewan River valley. Ottawa, October 23 (dated Oct. 14), 1915. 8vo. pp. i, 25. With 31 illustrations. By E. M. Kindle.

1601. **Museum Bulletin No. 22.** The age of the Killarney granite. Ottawa, February 11 (dated Feb. 5), 1916. 8vo. pp. 12. With 2 illustrations, By W. H. Collins.
1639. **Museum Bulletin No. 23.** The Trent Valley outlet of lake Algonquin and the deformation of the Algonquin water-plane in Lake Simcoe district, Ontario. Ottawa, September 27 (dated Aug. 21), 1916. 8vo. pp. i, 27. With diagram No. 1619 and 3 other illustrations. By W. A. Johnston.
- Accompanying Diagram:*
1619. Diagram showing shorelines of lake Algonquin and lake Iroquois. 1916. Scale: 6 miles to 1 inch.
1438. **Museum Bulletin No. 24.** Late Pleistocene oscillations of sea-level in the Ottawa valley. Ottawa, October 2 (dated Sep. 15), 1916. 8vo. pp. 14. With 1 illustration. By W. A. Johnston.
1658. **Museum Bulletin No. 25.** Recent and fossil ripple-mark. Ottawa, March 31 (dated Mar. 26), 1917. 8vo. pp. iii, 121. With 73 illustrations. By E. M. Kindle.
1663. **Museum Bulletin No. 26.** The flora of Canada. Ottawa, March 12 (dated Feb. 28), 1917. 8vo. pp. 14. With 1 illustration. By J. M. Macoun and M. O. Malte.



PART V.
GUIDE BOOKS.



PART V.

GUIDE BOOKS.

Special English and French editions of the Guide Books prepared for the Twelfth International Geological Congress were issued by the Geological Survey after the close of the meetings. Certain maps accompanying the Congress edition (which was printed only in English) were omitted, but for completeness and to avoid confusion are noted in the following list. In order to complete the set, the contents of Guide Books Nos. 6 and 7, issued by the Ontario Bureau of Mines, of which the Geological Survey had copies for distribution, are also given. By mistake the crest of the International Geological Congress, instead of that of the Geological Survey, appears on the French edition. For reference purposes the special maps (including those in the text) which have been inserted in the finding lists (see part XVII) are designated by letters, a, b, c, etc. These special maps were not issued separately. In the finding lists each is noted by the publication number of the Guide Book in which it appears, followed by its distinctive letter, thus: 531a, 535c, etc. In addition to these special maps, some Geological Survey maps bearing the ordinary publication numbers of the Survey are included in the Guide Books.

531. (E) **Guide Book No. 1.** Excursion in eastern Quebec and the Maritime Provinces. (Excursion A1.) Part I. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 207, French 218. With 16 maps and 22 other illustrations.
517. (F)
- Contains:
 General introduction.
 Geology. By G. A. Young.
 Physiography. By J. W. Goldthwait.
 Annotated guide. Montreal to Lévis. By G. A. Young.
 Quebec and vicinity. (Geology, with a bibliography.) See maps [a] to [c]. By P. E. Raymond.
 Quebec and vicinity: physiographical notes. By J. W. Goldthwait.
 Annotated guide. Lévis to Rivière du Loup. By G. A. Young.
 Rivière du Loup. (Geology, with a bibliography.) Includes a short note on fossils by P. E. Raymond. See map [d]. By G. A. Young.
 Rivière du Loup. The post-Glacial marine submergence. By J. W. Goldthwait.
 Annotated guide. Rivière du Loup to Bic. By G. A. Young.
 Bic. (Geology, with a bibliography.) See map [e]. By G. A. Young.
 Bic: the post-Glacial marine submergence. By J. W. Goldthwait.
 Annotated guide. Bic to Matapedia Junction. By G. A. Young.
 Dalhousie and the Gaspé peninsula. (Geology and palaeogeography, with a bibliography.) See maps [f] to [l]. By J. M. Clarke.
 The flora of the Gaspé sandstone. (Included in the above.) By D. White.
 Chaleur bay: physiographic note. By J. W. Goldthwait.
 Annotated guide. Dalhousie Junction to Nipisiguit Junction. By G. A. Young.
 Annotated guide. Nipisiguit Junction to Bathurst Mines. By G. A. Young.
 Bathurst Mines. (With a bibliography.) See map [m]. By G. A. Young.
 Annotated guide. Nipisiguit Junction to Halifax. By G. A. Young.
 Annotated guide. Halifax to Windsor. By G. A. Young.

Windsor-Horton. See map [n]. By W. A. Bell.

Introduction. (Physiographic notes.)

Annotated guide. Windsor to Avonport.

Horton Bluffs section.

The Horton flora. By D. White.

The Windsor sections.

Bibliography.

Annotated guide. Windsor to Truro. By G. A. Young.

Annotated guide. Halifax to Enfield. By G. A. Young.

The Goldbearing series of Nova Scotia. (With a bibliography). By E. R. Faribault.

Oldham gold district. See map [o]. By E. R. Faribault.

Annotated guide: Enfield to western end of Oldham gold district.

Annotated guide: Oldham gold district.

Annotated guide. Enfield to Truro. By G. A. Young.

Accompanying Maps:

Itinéraires des excursions A1, A5, A6, et A7. Scale: 75 miles to 1 inch.

NOTE: The above map is not included in the English special edition issued by the Geological Survey.

- [a] Quebec and vicinity. Scale: 4 miles to 1 inch.
- [b] Levis [Quebec]. Scale: 1,500 feet to 1 inch.
- [c] Montmorency falls [Quebec]. Scale: 800 feet to 1 inch.
- [d] Rivière du Loup [Quebec]. Scale: 480 feet to 1 inch.
- [e] Bic [Quebec]. Scale: about 1,200 feet to 1 inch.
- [f] Eastern part of Gaspé [Quebec]. Scale: about 5 miles to 1 inch.
- [g] Percé and vicinity [Quebec]. Scale: about 5,000 feet to 1 inch. (In pocket.)
- [h] Percé, Gaspé [Quebec]. Scale: about 900 feet to 1 inch.
- [i] The Forillon, Gaspé [Quebec]. Scale: 1.75 miles to 1 inch.
- [j] Head of Chaleur bay [Quebec and New Brunswick]. Scale: about 5 miles to 1 inch.
- [k] Scaumenac bay, Quebec. Scale: 1.6 miles to 1 inch.
- [l] Dalhousie [New Brunswick]. Scale: 1.75 miles to 1 inch.
- [m] Bathurst iron mine [New Brunswick]. Scale: 800 feet to 1 inch. (In pocket.)
- [n] Windsor-Horton Bluff [Nova Scotia]. Scale: 4 miles to 1 inch. (In pocket.)
- [o] Oldham gold district and vicinity [Nova Scotia]. Scale: 2 miles to 1 inch.
- [p] Plan and sections of Oldham gold district, Halifax county, N.S. Scale: 500 feet to 1 inch. (In pocket.)

NOTE: This plan was not issued with the edition for the International Geological Congress, but is included, although not listed, in the English and French special editions issued by the Geological Survey. In the French edition it was placed by mistake in Guide Book No. 3.

532. (E)
518. (F)

Guide Book No. 1. Excursion in Eastern Quebec and the Maritime Provinces. (Excursion A1.) Part II. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 209-407, French 219-417 (continuous with Nos. 531 and 517). With map No. 1277, 14 small maps, and 6 other illustrations.

Contains:

The Riversdale-Union group at Truro and in the type section along the Intercolonial railway east of Truro. See map [a].

Introduction. (With a bibliography.) By G. A. Young.

Character and fauna of the Riversdale and Union formations. By J. E. Hyde.

Annotated guide. Truro to Campbell's Siding. By J. E. Hyde.

Annotated guide. Campbell's Siding to New Glasgow. By G. A. Young.

The New Glasgow conglomerate. (With a bibliography.) See map [b]. By G. A. Young.

Annotated guide. New Glasgow to Sydney. By G. A. Young.

Sydney coal field. See map [c].

Introduction. (Geology.) By G. A. Young.

Note on the flora of the coal measures. By D. White.

The Carboniferous sections on Sydney harbour. See map [d]. By J. E. Hyde.

Bibliography.

- Annotated guide. Sydney to George River station. By G. A. Young.
George river. (Geology, with a bibliography.) See map [e]. By G. A. Young.
- Annotated guide. George River station to Antigonish. By G. A. Young.
- Arisaig. (Geology and paleontology, with a bibliography.) See maps [f] and [g]. By W. H. Twenhofel.
- Annotated guide. Antigonish to Maccan Junction. By G. A. Young.
- Annotated guide. Maccan Junction to Joggins. By G. A. Young.
- The Joggins Carboniferous section. (With a bibliography.) See section [h]. By W. A. Bell.
- Annotated guide. Maccan Junction to Moncton. By G. A. Young.
- Moncton-Albert Mines. (Geology, with a bibliography.) See map [i]. By G. A. Young.
- The Hillsborough gypsum deposit. (Included in the above.) By H. E. Kramm.
- Annotated guide. Moncton to St. John. By G. A. Young.
- St. John and vicinity. (Geology, with a bibliography.) See maps [j] to [l]. By G. A. Young.
- Fern Ledges. See map [m]. By M. C. Stopes.
- Annotated guide. St. John to Grand Falls. By G. A. Young.
- Grand Falls, St. John river. (Geology, with a bibliography.) See map [n]. By G. A. Young.
- Annotated guide. Grand Falls to Rivière du Loup. By G. A. Young

Accompanying Maps:

- [a] Union-Riversdale [Nova Scotia]. Scale: 3 miles to 1 inch. (In pocket.)
- [b] New Glasgow [Nova Scotia]. Scale: 2,500 feet to 1 inch.
- [c] Sydney coal field [Nova Scotia]. Scale: 3 miles to 1 inch. (In pocket.)
- [d] Sydney [Nova Scotia]. Scale: 2 miles to 1 inch.
- [e] George River station [Nova Scotia]. Scale: 1,850 feet to 1 inch.
- [f] Arisaig-Antigonish district [Nova Scotia]. Scale: 4 miles to 1 inch.
- [g] Arisaig [Nova Scotia]. Scale: 0.75 miles to 1 inch. (In pocket.)
- [h] Logan's section of the Carboniferous at Joggins Mines [Nova Scotia]. Scale: 1.6 miles to 1 inch.
- [i] Moncton-Albert mines [New Brunswick]. Scale: 3.75 miles to 1 inch.
- [j] St. John and vicinity [New Brunswick]. Scale: 0.75 miles to 1 inch.
- [k] Part of St. John city [New Brunswick]. Scale: 1,250 feet to 1 inch.
- [l] Suspension bridge, St. John [New Brunswick]. Scale: 600 feet to 1 inch.
- [m] Fern Ledges [New Brunswick]. Scale: 900 feet to 1 inch.
- [n] Grand Falls [New Brunswick]. Scale: 1,200 feet to 1 inch.

1277.

Geological map of the Dominion of Canada and Newfoundland. (Map 91A.) 1913. Scale: 100 miles to 1 inch. (In pocket.)

NOTE: This map was not included in the French special edition issued by the Geological Survey.

533. (E)

519. (F)

Guide Book No. 2. Excursions in the Eastern Townships of Quebec and the eastern part of Ontario. (Excursions A2, A5, and A9). Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 142, French 142. With map No. 1023, 10 small maps, and 21 other illustrations.

Contains:

Excursion A2. The Haliburton-Bancroft area of central Ontario. See maps No. 1023 and [a] to [f]. By F. D. Adams and A. E. Barlow. Introduction.

History of geological exploration in the Laurentian of eastern Canada.

Physical features.

Geology of the area.

Itinerary of the excursion. (Annotated guide, and detailed geological and petrographical descriptions of the localities visited, with list of references.)

Excursion A5. Asbestos deposits of the province of Quebec. (General description; geology; chromite; and a bibliography.) See maps [g] and [h]. By R. Harvie.

Excursion A9. Mineral deposits near Kingston, Ontario. See map [i].
 By M. B. Baker.
 General description of the region.
 Lead, phosphate, and mica deposits.
 Feldspar, corundum, and scapolitization.
 Palaeozoic—Pre-Cambrian unconformity.
 Historical note.
 Bibliography.

Accompanying Maps:

Route map between Montreal, Ottawa, Kingston, and Toronto. Scale: about 38 miles to 1 inch.

1023. Geological map of central Ontario, showing the position of the several belts of corundum-bearing rocks. 1909. Scale: 18 miles to 1 inch.

NOTE: The above map (No. 1023) is not included in the English or French special editions issued by the Geological Survey. Same map accompanies Memoir 57 (No. 1022).

- [a] Sketch map, showing the position of the Haliburton and Bancroft areas in relation to the Laurentian highlands, etc. Scale: 95 miles to 1 inch.
- [b] Route map, Hastings road [Ontario]. Scale: 2½ miles to 1 inch.
- [c] Bancroft and vicinity [Ontario]. Scale: 2½ miles to 1 inch.
- [d] Gooderham and vicinity [Ontario]. Scale: 2½ miles to 1 inch.
- [e] Craigmont corundum belt [Ontario]. Scale: 2½ miles to 1 inch.
- [f] Craig mine, Raglan township, Ontario. Scale: 800 feet to 1 inch.
- [g] The asbestos district of Quebec. Scale: 30 miles to 1 inch.
- [h] Route map between Thetford and Coleraine [Quebec]. Scale: 1.3 miles to 1 inch.
- [i] Route map between Sydenham and Glendower [Ontario]. Scale: 2½ miles to 1 inch.

534. (E)
 520. (F)

Guide Book No. 3. Excursions in the neighbourhood of Montreal and Ottawa. (Excursions A6, A7, A8, A10, A11.) Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 162, French 174. With 14 maps (including map No. 750, 2nd edition), and 25 other illustrations.

Contains:

Excursion A6. The Morin anorthosite area. (General statement concerning the anorthosite intrusions of the Canadian shield; the Morin anorthosite; annotated guide; and a bibliography.) See map No. 750. By F. D. Adams.

Excursion A7. The Montereian hills. (Introduction; geology of mount Royal, St. Helen island, and mount Johnson; annotated guide; and a bibliography.) See maps [a] to [c]. By F. D. Adams.

Excursion A8. Mineral deposits of the Ottawa district. By J. Stansfield.

Introduction. (General geological description.)

Annotated guide.

The apatite deposits at the Emerald mine. See maps [d] and [e].

The *Eozoön* occurrence at Côte St. Pierre. See maps [f] and [g].

The graphite deposits at the Walker mine. See maps [d] and [h].

The graphite deposits at the Dominion mine. See maps [d] and [i].

The mica deposits at the Nellis mine. See maps [j] and [k].

Bibliography.

Excursion A10. Pleistocene—Montreal, Covey Hill, and Ottawa. By J. W. Goldthwait, W. A. Johnston, and J. Keele.

Introduction. See map [l]. By J. W. Goldthwait.

The upper marine limit at Montreal. By J. W. Goldthwait. See maps [l] and [m].

The upper marine limit at Covey Hill and vicinity. See map [l]. By J. W. Goldthwait.

The superficial deposits near Ottawa. By J. Keele and W. A. Johnston.

Bibliography.

Excursion A11. Ordovician of Montreal and Ottawa. (Descriptions of these formations at Montreal, Ottawa, and their vicinities; and a bibliography.) See maps No. 750 and [b]. By P. E. Raymond.

- 750.** *Accompanying Maps:*
Map-sheet No. 121. (Grenville sheet.) Quebec and Ontario. Reissued 1912. Parts of counties of Ottawa, Argenteuil, Terrebonne, Two Mountains, and Vaudreuil, Que., and Carleton, Russell, Prescott, and Glengarry, Ont. Scale: 4 miles to 1 inch.

NOTE: The above map is not included in the English or French special editions issued by the Geological Survey.

- [a] Monteregian hills. Scale: 8 miles to 1 inch.
 - [b] Montreal. Scale: 1,760 feet to 1 inch. (In pocket.)
 - [c] Mount Johnson. Scale: 1,800 feet to 1 inch.
 - [d] Route map between Buckingham and Emerald mine. Scale: 5,000 feet to 1 inch. (In pocket.)
 - [e] Emerald mine, Buckingham township, Quebec. Scale: 400 feet to 1 inch.
 - [f] Route map between Papineauville and Côte St. Pierre. Scale: 5,000 feet to 1 inch.
 - [g] Côte St. Pierre. Scale: 400 feet to 1 inch.
 - [h] Walker mine, Buckingham township, Quebec. Scale: 500 feet to 1 inch. (In pocket.)
 - [i] Dominion mine, Buckingham township, Quebec. Scale: 400 feet to 1 inch.
 - [j] Route map, Cantley, Quebec. Scale: 2,000 feet to 1 inch. (In pocket.)
 - [k] Nellis mine, Cantley, Quebec. Scale: 200 feet to 1 inch.
 - [l] South shore-line of the ancient Champlain sea. Scale: about 46 miles to 1 inch.
 - [m] Part of mount Royal [Montreal, Que.], showing upper marine beaches. Scale: 400 feet to 1 inch. (In pocket.)
- 535. (E)** **Guide Book No. 4.** Excursions in southwestern Ontario. (Excursions A4, B1, A12, B3). Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 142, French 140. With 8 maps and 24 other illustrations.

Contains:

- Excursions A4 and B1. Niagara—Iroquois beach. Niagara falls and gorge. (Physiography, geology, etc.; and itinerary.) See map [b]. By F. B. Taylor.
- Iroquois beach. (Geology and physiography; and a partial bibliography.) See map [c]. By A. P. Coleman.
- Excursion A12. The palæontology of the Guelph, Onondaga, and Hamilton formations in western Ontario. (With annotated guide and a bibliography.) By W. A. Parks.
- Geology of the region around Hagersville. See map [d]. By C. R. Stauffer.
- Log of well at Petrolia.
- The Hamilton formation at Thedford and vicinity. See maps [e] and [f]. By M. Y. Williams.
- Excursion B3. The Palæozoic section at Hamilton, Ontario. (Also section at Grimsby, and a bibliography.) See map [g]. By W. A. Parks.

Accompanying Maps:

Itinéraires des excursions A2, A3 et C6, A4, A8, A9, A10, A11, A12, et C5. Scale: about 78 miles to 1 inch.

NOTE: The above map is not included in the English special edition issued by the Geological Survey.

- [a] Topographic map of the Niagara gorge, surveyed in co-operation by United States Geological Survey and Geological Survey of Canada. 1913. Scale: 1,000 feet to 1 inch.
- NOTE: The above map is not included in the English or French special editions issued by the Geological Survey.
- [b] Niagara gorge. Scale: 3,300 feet to 1 inch. (In pocket.)
 - [c] Hamilton and vicinity. Scale: 1½ miles to 1 inch. (In pocket.)
 - [d] Hagersville and vicinity. Scale: 2.6 miles to 1 inch.
 - [e] Route map between Thedford and Arkona. Scale: 1.6 miles to 1 inch.
 - [f] Route map between Guelph and Galt. Scale: 2.4 miles to 1 inch.
 - [g] Route map between Hamilton and Grimsby. Scale: 1½ miles to 1 inch.

536. (E) **Guide Book No. 5.** Excursions in the western peninsula of Ontario and Manitoulin island. (Excursions B4, B7, B9, and C5.) Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 108, French 106. With 8 maps and 21 other illustrations.

NOTE: A red paper slip is inserted in the English edition, giving contents of Guide Books Nos. 6 and 7, which were not published by the Geological Survey but by the Ontario Bureau of Mines, Toronto.

Contains:

- Excursion B4. Silurian section at the forks of Credit river, Ontario. (Annotated guide; Cataract and Credit Forks sections; and a bibliography.) See map [a]. By W. A. Parks.
- Excursion B7. Ordovician section on Credit river, near Streetsville, Ontario. (Annotated guide; Richmond and Lorraine formations; and a bibliography.) See map [a]. By W. A. Parks.
- Excursion B9. Algonquin beach, glacial phenomena and Lowville (Ordovician) limestone in Lake Simcoe district, Ontario. (With annotated guide and a bibliography.) By W. A. Johnston.
- Excursion C5. Geology of selected areas on lakes Erie and Huron in the province of Ontario. By W. A. Parks. With sections by C. R. Stauffer, A. F. Foerste, M. Y. Williams, and T. L. Walker. Introduction. (Physical features and geology.) Annotated guide (Toronto to Port Colborne). Geology of the region around Port Colborne. See maps [b], [c], and [d]. By C. R. Stauffer.
- Annotated guide (Port Colborne to Manitoulin island). The geology of the clay cliffs, cape Smyth, Manitoulin island. By A. F. Foerste.
- Lowville—Pre-Cambrian contact on Granite island.
- The Mohawkian (middle Ordovician) strata northeast of Manitoulin island. By A. F. Foerste.
- The Silurian of the eastern part of Manitoulin island. See map [e]. By M. Y. Williams.
- The Killarney passage. See map [e].
- The Pre-Cambrian of Parry island and vicinity. See map [f]. By T. L. Walker.
- Palaeozoic section at Collingwood. See map [g].
- Bibliography.

Accompanying Maps:

- Route map between Toronto and Manitoulin island. Scale: 38 miles to 1 inch. (In pocket.)
- [a] Route map between Streetsville and Credit Forks. Scale: 2.6 miles to 1 inch.
- [b] Port Colborne. Scale: 2.4 miles to 1 inch.
- [c] Sketch map of Pelee island [lake Erie].
- [d] Map of Anderdon and Malden townships [vicinity of Amherstburg, Ont.].
- [e] Eastern portion of Manitoulin island [lake Huron]. Scale: 5½ miles to 1 inch. (In pocket.)
- [f] Parry Sound and vicinity. Scale: 2 miles to 1 inch. (In pocket.)
- [g] Route map between Collingwood and Craigeleith. Scale: 2½ miles to 1 inch.

523. (F) **Guide Book No. 6.** Excursions in vicinity of Toronto and to Muskoka and Madoc. (Excursions B2, B5, B6, B8, and B10.) Toronto, 1913. Small 8vo. pp. 68. With 7 maps and sections, and 18 other illustrations.

NOTE: Issued only in French by the Geological Survey. The English edition was issued by the Ontario Bureau of Mines, Toronto, Ont.

Contains:

- Excursion B2. Toronto and vicinity. See map [a]. By A. P. Coleman.
- Introduction and geological summary.
- The Lorraine shale.
- Pleistocene beds.
- Excursion B5. Moraines north of Toronto. See map [a]. By F. B. Taylor.

- Excursion B6. Muskoka lakes. See map [d]. G. G. S. Lindsey, leader.
The Laurentian.
Annotated guide (Toronto to Gravenhurst).
- Excursion B8. Clay deposits and works near Toronto. See sections [e] and [f]. By M. B. Baker.
Introduction.
Don Valley brick works.
Swansea sewer pipe works.
- Excursion B10. The Madoc area. See maps [b] and [c]. By C. V. Knight.
Introduction.
General geology.
Economic minerals.
Bibliography.
Annotated guide (Toronto to Ivanhoe, and Ivanhoe to Madoc).

Accompanying Maps and Sections:

- [a] Map of Toronto and vicinity. Scale: 1 mile to 1 inch. (In pocket.)
- [b] Map of the Madoc area, townships of Madoc and Huntingdon, Hastings county, province of Ontario. Scale: 1,000 feet to 1 inch. (In pocket.)
- [c] Map of the Queensboro pyrite area, townships of Madoc and Elzevir, Hastings county, province of Ontario. Scale: 800 feet to 1 inch. (In pocket.)
- NOTE: The above three maps (a, b, and c) are not included in the French special edition issued by the Geological Survey.
- [d] Muskoka lakes. Scale: 6 miles to 1 inch.
Route map between Toronto and Muskoka. Scale: about 38.3 miles to 1 inch.
- [e] Section at Don Valley brick yard [Toronto]. Scale: 80 feet to 1 inch.
- [f] Section at bend of Don river [Toronto]. Scale: 200 feet to 1 inch.

524. (F) **Guide Book No. 7.** Excursions to Sudbury, Cobalt, and Porcupine. (Excursions A3 and C6.) Toronto, 1913. Small 8vo. pp. 150. With 16 maps and sections, and 41 other illustrations. Errata slip in French edition.

NOTE: Issued only in French by the Geological Survey. The English edition was issued by the Ontario Bureau of Mines, Toronto.

Contains:

Preface. By W. G. Miller.

The Sudbury area. See maps [b] to [g]. By A. P. Coleman.

The Moose Mountain iron range.

The Cobalt area. See maps [a], [f], [h]-[j], and sections [l]-[n]. By W. G. Miller.

The Porcupine area. See maps [b] and [f]. By A. G. Burrows.

Timagami ("Temagami" in the report). See map [k]. By W. G. Miller.

Accompanying Maps and Sections:

- [a] Map of Cobalt area, district of Nipissing, showing veins and location of sections. Scale: 800 feet to 1 inch. (In pocket.)
- [b] Map of the Sudbury-Cobalt-Porcupine region, province of Ontario. Scale: 8 miles to 1 inch. (In pocket.)
- NOTE: The above two maps (a and b) are not included in the French special edition issued by the Geological Survey.
- [c] Geological map of Creighton mine [Sudbury, showing contact of norite and Laurentian]. Scale: about 363 feet to 1 inch. (In pocket.)
- NOTE: First published as map No. 174, accompanying report No. 170 of the Mines Branch, Department of Mines, Ottawa.
- [d] Geological map of vicinity of Stobie and No. 3 mines [Sudbury]. Scale: 1,400 feet to 1 inch. (In pocket.)
- NOTE: First published in 1913 as map No. 178, accompanying report No. 170 of the Mines Branch, Department of Mines, Ottawa.
- [e] Geological map of Copper Cliff offset [Sudbury]. Scale: 2,850 feet to 1 inch. (In pocket.)

NOTE: First published as map No. 176, accompanying report No. 170 of the Mines Branch, Department of Mines, Ottawa.

- [f] The Sudbury-Cobalt-Porcupine region. Scale: 50 miles to 1 inch.
- [g] Sudbury nickel area. Scale: $5\frac{1}{2}$ miles to 1 inch.
- [h] Part of a map published in 1744, showing that the argentiferous galena deposit on the east side of lake Timiskaming (Anse à la mine), about nine miles from Cobalt, was known at that date.
- [i] N.W.-S.E. and N.E.-S.W. lines of regional disturbance in the district of Timiskaming and the cobalt-silver areas. Scale: $17\frac{1}{2}$ miles to 1 inch.
- [j] Geological map of area a few miles north of Cobalt. Scale: about 1.4 miles to 1 inch.
- Route map between North Bay and Englehart. Scale: 21 miles to 1 inch.
- [k] Geological map of area near Timagami railway station. Scale: 1 mile to 1 inch.
- Route map between Englehart and Cochrane. Scale: 20 miles to 1 inch.
- [l] Geological section G-H, Cobalt. (See map a.) Scale: 800 feet to 1 inch.
- [m] Geological section Y-Z, Cobalt. (See map a.) Scale: 800 feet to 1 inch.
- [n] Generalized vertical section through the productive part of the Cobalt area.

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Guide Book No. 8. Transcontinental excursion C1. Toronto to Victoria and return via Canadian Pacific and Canadian Northern railways. Part I. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 101, French 106. With map No. 1221 (1st edition), 8 small maps, and 13 other illustrations.

Contains:

Annotated guide. Sudbury to Cartier. By A. P. Coleman.

NOTE: Between Toronto and Sudbury the route of the excursion follows that of excursion A3, described in Guide Book No. 6.

Annotated guide. Cartier to Coldwell. By A. L. Parsons.

The nepheline and alkali syenites of the Port Coldwell area. (With a bibliography.) By A. E. Barlow.

Coldwell to Port Arthur. By A. L. Parsons.

Annotated guide;

The Pre-Cambrian geology of Loon Lake district. See map [a]. (With a bibliography.)

The Pre-Cambrian geology of Port Arthur district. (With a bibliography.)

Port Arthur to Winnipeg via Canadian Northern railway. By W. L. Uglow.

Introduction.

Annotated guide.

Geology of the vicinity of Iron Spur.

Geology of the vicinity of Steeprock lake. See map [b].

Geology of the vicinity of Mine Centre. See map [c].

The Couchiching series on Rainy lake. See map [d].

Bibliography.

Ordovician and Silurian of Stony Mountain and Stonewall, Manitoba. (With a bibliography.) See map [e]. By A. MacLean.

Winnipeg to Bankhead. See maps 1221 and [f]. By D. B. Dowling.

Introduction (The Great Plains and Rocky mountains).

Historical geology.

Summary description of formations.

Annotated guide.

Accompanying Maps:

Itinéraires des excursions C1, C2, C3, C4, C8, et C9. Scale: 250 miles to 1 inch.

Itinéraires des excursions C1, C2, C3, C4 (tronçons de l'ouest), et C7. Scale: about 77.5 miles to 1 inch.

NOTE: The above two maps are not included in the English special edition issued by the Geological Survey.

- [a] Loon lake [Thunder Bay district, Ontario]. Scale: 1.33 miles to 1 inch.
- [b] Steeprock lake, Rainy River district [Ontario]. Scale: $1\frac{1}{2}$ miles to 1 inch.
- [c] Golden Star mine, Rainy River district [Ontario]. Scale: $\frac{1}{2}$ mile to 1 inch.
- [d] Bear's passage, Rainy lake [Ontario]. Scale: $\frac{1}{2}$ mile to 1 inch. (In pocket.)
- [e] Stony mountain [Manitoba]. Scale: about 1,330 feet to 1 inch. (In pocket.)

1221. Geological map of Alberta, Saskatchewan, and Manitoba. (Map 55A. 1913. Scale: 35 miles to 1 inch. (In pocket.)
 NOTE: The above map is not included in the English or French special editions issued by the Geological Survey. It also accompanies Memoirs 29 (No. 1220) and 53 (No. 1363).
- [f] Route map between Calgary and Banff [Alberta]. Scale: 15 miles to 1 inch.
538. (E) **Guide Book No. 8.** Transcontinental excursion C1. Toronto to Victoria and return via Canadian Pacific and Canadian Northern railways. Part II. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 103-274, French 109-292 (continuous with Nos. 537 and 525) and errata slip. With 2 sheets of coloured sections (not listed in contents), 13 maps, and 41 other illustrations. Contains:
 Introduction to the geology of the Cordillera. (Topography, glaciation, stratigraphy, igneous bodies, etc., with a bibliography.) See map [a] and sections [b], [c]. By R. A. Daly. See also Memoir 38 (No. 203).
 Rocky mountains (Bankhead to Golden). With annotated guide and a bibliography. See maps [d] to [f]. By J. A. Allan.
 Annotated guide, Golden to Savona. See maps [g] to [m]. By R. A. Daly. See also Memoir 68 (No. 1463).
 Western part of the belt of interior plateaus (Savona to Lytton). With annotated guide. See map [m]. By C. W. Drysdale.
 Coast range (Lytton to Vancouver). See maps [n] and [o]. By C. Camsell.
 Introduction.
 Columnar sections. By N. L. Bowen.
 The canyon of Fraser river. (With a bibliography.)
 Fraser delta. (With a bibliography.)
 Annotated guide.
- Accompanying Maps and Sections:*
- [a] Sketch map showing major subdivisions in the southern part of the Canadian Cordillera. Scale: about 177 miles to 1 inch. See also map No. 1458.
 [b] Structure section across the Rocky mountains near the main line of the Canadian Pacific railway between the Cascade trough and the Columbia valley. Horizontal and vertical scale: 2 miles to 1 inch. (In pocket.)
 [c] Structure section of the Selkirk and Purcell mountains from Moberly peak to Revelstoke. Horizontal and vertical scale: 2 miles to 1 inch. (In pocket.) See also section No. 1457.
 [d] Banff [Alberta]. Scale: 1½ miles to 1 inch.
 [e] Laggan-Field [Alberta-British Columbia]. Scale: 1.9 miles to 1 inch. (In pocket.)
 [f] Route map between Banff [Alberta] and Golden [British Columbia]. Scale: 8 miles to 1 inch.
 [g] Route map between Golden and Revelstoke. Scale: 10 miles to 1 inch. See also map No. 1450.
 [h] Prairie hills and Dogtooth mountains. Scale: 2.6 miles to 1 inch. See also map No. 1447.
 [i] Glacier. Scale: 1.9 miles to 1 inch. (In pocket.) See also map No. 1449.
 [j] Albert canyon. Scale: 1.4 miles to 1 inch. See also map No. 1448.
 [k] Map showing approximate distribution of the Shuswap Terrane rocks in south central British Columbia. Scale: about 177 miles to 1 inch.
 [l] Route map between Revelstoke and Ducks. Scale: 10 miles to 1 inch.
 [m] Route map between Ducks and Lytton. Scale: 10 miles to 1 inch.
 [n] Route map between Lytton and Agassiz. Scale: 10 miles to 1 inch.
 [o] Route map between Agassiz and Vancouver. Scale: 10 miles to 1 inch.
539. (E) **Guide Book No. 8.** Transcontinental excursion C1. Toronto to Victoria and return via Canadian Pacific and Canadian Northern railways. Part III. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 275-385, French 295-414 (continuous with Nos. 538 and 526). With 7 maps and 15 other illustrations. Contains:
 Vancouver island. See maps [a] and [b]. By C. H. Clapp.

Introduction.

General geology and physiography.

Annotated guide. Vancouver to Victoria. (Excursions C1 and C2, section I.)

Geology of the region around Victoria.

Annotated guide. Vancouver to Nanaimo. (Excursion C2, section II.)

Geology of the region around Nanaimo.

Annotated guide. Nanaimo to Victoria. (Excursion C2, section II.)

References.

Fire clay deposits at Clayburn, British Columbia. By C. Camsell.

Introduction. (Geological history of Fraser delta.)

Annotated guide. Vancouver to Clayburn.

Geology of the region about Clayburn. (With a bibliography.)

Victoria, British Columbia, to Calgary, Alberta. (See pp. 105 to 274 of Guide Book No. 8, part II (No. 538).)

Calgary to Winnipeg, via Canadian Northern railway. By A. MacLean.

Introduction.

Annotated guide. See map [d].

The Edmonton formation on Red Deer river near Munson, Alberta.

See map [c].

The Devonian of Snake island and south shore of lake Winnipegosis. See map [e].

The Devonian of Dawson bay, lake Winnipegosis. See map [f].

Bibliography.

Winnipeg to Port Arthur. By A. L. Parsons.

Annotated guide.

Pre-Cambrian geology in the northern part of Lake of the Woods.

(With a bibliography.) See map [g].

Port Arthur to Toronto. (See pp. 13-36, Guide Book No. 8, part I (No. 537), and in Guide Book No. 6 (No. 523).)

Accompanying Maps:

- [a] Victoria and vicinity [British Columbia]. Scale: 1 mile to 1 inch. (In pocket.)
- [b] Route map between Victoria and Nanaimo [British Columbia]. Scale: 7½ miles to 1 inch. (In pocket.)
- [c] Red Deer valley in the vicinity of Munson and Drumheller [Alberta]. Scale: 2 miles to 1 inch.
- [d] Old beaches, Ethelbert to Pine river [Manitoba]. Scale: 3 miles to 1 inch.
- [e] Snake island and south shore of lake Winnipegosis [Manitoba]. Scale: 1½ miles to 1 inch.
- [f] Dawson bay [lake Winnipegosis, Manitoba]. Scale: 8½ miles to 1 inch.
- [g] Route map, Lake of the Woods. Scale: 2.4 miles to 1 inch. (In pocket.)

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528. (F)

Guide Book No. 9. Transcontinental excursion C2. Toronto to Victoria and return via Canadian Pacific, Grand Trunk Pacific, and National Transcontinental railways. Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 164, French 169. With 20 maps, 7 sections, and 29 other illustrations.

Contains:

Sudbury, Ontario, to Dunmore, Alberta. By W. H. Collins and C. Camsell.

Dunmore to Burmis. (With annotated guide.) See maps [a] and [b]. By D. B. Dowling.

The Cordillera. See map [c]. By S. J. Schofield.

Burmis, Alberta, to Elko, British Columbia. By W. W. Leach.

Annotated guide. See maps [d] and [e].

Lille coal mine [Alberta].

Geology of the region about Corbin [British Columbia].

Geology in the vicinity of Coal creek [British Columbia]. See map [f].

Bibliography.

Elko to Kootenay lake, British Columbia. (With annotated guide, and references.) See map [g]. By S. J. Schofield.

- West Kootenay and Boundary districts [British Columbia]. By O. E. LeRoy.
 Geology of the region between Procter and Midway. See map [h].
 Annotated guide. (Procter to Midway.)
 Phoenix. See maps [i] and [j].
 Annotated guide. (Phoenix to Midway.)
 Annotated guide. (Castlegar to Rossland.)
 Rossland.
 Geology of the region between Castlegar and Revelstoke.
 The Arrow lakes. (With annotated guide, Nakusp to Revelstoke.) See map [k].
 Slocan silver-lead district. (With annotated guides, South Slocan to New Denver and Roseberry to Nakusp.) See map [k].
- References.
- The Similkameen district, Midway to Spence's Bridge [British Columbia]. By C. Camsell.
 Introduction.
 Annotated guide. See maps [l] and [p].
 Geology of the region about Hedley. (With references.) See sections [m] and [n].
 Geology of the region around Princeton. (With references.) See maps [l] and [p].
 Geology of the region around Tulameen. (With references.) See section [o] and map [p].
 Geology of the region about Merritt. (With references.) See map [p].
- Revelstoke to Victoria. (Route coincides with that of excursion C1. See Guide Book No. 8, part II.)
- Victoria, British Columbia, to Calgary, Alberta. (The east-bound portion of excursion C2 follows, as far as Calgary, the same route as westward journey of excursion C1. See Guide Book No. 8, part II.)
- Calgary, Alberta, to Winnipeg, Manitoba, via Grand Trunk Pacific railway. By D. B. Dowling.
 Calgary to Tofield. (Annotated guide.)
 Tofield, Alberta, to Tête Jaune, British Columbia. See maps [q] and [r].
 Annotated guide. Tofield to Brulé lake.
 Rocky mountains.
 Annotated guide. Pocahontas to Tête Jaune.
 Tofield to Winnipeg.
 Introduction.
 Annotated guide.
- Winnipeg to Cochrane via National Transcontinental railway.
 Introduction. See diagram [s]. By W. H. Collins and M. E. Wilson.
 Annotated guide. Winnipeg to [lake] Nipigon. See maps [t] to [w]. By W. H. Collins.
 Annotated guide. [Lake] Nipigon to Iroquois Falls. See maps [x] to [zz]. By A. G. Burrows.

Accompanying Maps and Sections :

- [a] Route map between Medicine Hat and Lethbridge [Alberta]. Scale: 15 miles to 1 inch.
 [b] Location of the mines in the Lethbridge district, Alberta. Scale: 2.2 miles to 1 inch.
 [c] Map to illustrate the nomenclature of a part of the North American Cordillera. Scale: 94.6 miles to 1 inch.
 [d] Section in Bellevue mine [Alberta], showing folding of coal seams. Scale: 330 feet to 1 inch.
 [e] Map and section of Crowsnest mountain, showing overthrust of Palæozoic on Cretaceous rocks. Scale: 1½ miles to 1 inch.
 [f] Route map between Lethbridge [Alberta], and Elko [British Columbia]. Scale: 15 miles to 1 inch.

- [g] Route map between Elko and Procter [British Columbia]. Scale: 10 miles to 1 inch.
- [h] Route map between Procter and Midway [British Columbia]. Scale: 10 miles to 1 inch.
- [i] Phoenix. Structural sections illustrating the relations of the mineralized zone and the country rocks. Scale: 600 feet to 1 inch.
- [j] Section across ore-body, Knob Hill-Ironside mine [Phoenix, British Columbia]. Scale: 200 feet to 1 inch.
- [k] Route map between Arrow and Slocan lakes [British Columbia]. Scale: 10 miles to 1 inch. (In pocket.)
- [l] Route map between Midway and Princeton [British Columbia]. Scale: 10 miles to 1 inch.
- [m] Natural section of Nickel Plate mountain [British Columbia], showing the roof contact of the granodiorite batholith. Scale: 666 feet to 1 inch.
- [n] Section through the Nickel Plate mine, showing the relation of the ore-bodies to the gabbro intrusive. Scale: 100 feet to 1 inch.
- [o] Section through Olivine mountain [Tulameen district, B.C.]. Scale: 5,000 feet to 1 inch.
- [p] Route map between Princeton and Spence's Bridge [British Columbia]. Scale: 10 miles to 1 inch.
- [q] Route map between Edmonton and Edson [Alberta]. Scale: 15 miles to 1 inch.
- [r] Route map between Edson [Alberta], and Tête Jaune [British Columbia]. Scale: 15 miles to 1 inch.
- [s] Diagram showing geological relationships in the region between lake Nipigon and Winnipeg, with a diagrammatic section.
- [t] Route map between Malachi [Ontario], and Winnipeg [Manitoba]. Scale: 16 miles to 1 inch.
- [u] Route map between Richan and Malachi [Ontario]. Scale: 16 miles to 1 inch.
- [v] Route map between Bucke and Richan [Ontario]. Scale: 16 miles to 1 inch.
- [w] Route map between lake Nipigon and Bucke [Ontario]. Scale: 16 miles to 1 inch.
- [x] Route map between Grant and lake Nipigon [Ontario]. Scale: 16 miles to 1 inch.
- [y] Route map between Kabinakagami river and Grant [Ontario]. Scale: 16 miles to 1 inch.
- [z] Route map between Alexandra and Kabinakagami river [Ontario]. Scale: 16 miles to 1 inch.
- [zz] Route map between lake Abitibi and Alexandra [Ontario]. Scale: 16 miles to 1 inch.
542. (E) **Guide Book No. 10.** Excursions in northern British Columbia and Yukon Territory, and along the north Pacific coast. (Excursions C8 and C9.) Published in English 1913, and French 1916 (dated 1914), Ottawa. Small 8vo. pp., English 179 and errata slip, French 193. With 18 maps and sections (including map No. 917), and 44 other illustrations.
529. (F) Contains:
- Excursion C9. Prince Rupert and Skeena river. By R. G. McConnell. Vancouver to Prince Rupert. (Physical features of the coast, geology, and annotated guide.) See maps [b] and [c]. General physical features of the Skeena River district. Natural resources. Geology. See maps [d] and [a]. Bibliography. Annotated guide. (Prince Rupert to Telkwa.)
- Excursion C8. Yukon and Malaspina. General introduction. By D. D. Cairnes. Prince Rupert-Skagway section. (Physiography, geology, and annotated guide.) See maps [e] and [f]. By F. E. Wright. The Skagway-Whitehorse-Dawson section. See map No. 917. By D. D. Cairnes. General topography and geology. See map [g]. Climate, fauna, and flora.

- Annotated guide. (Skagway to Dawson.)
 Whitehorse copper belt.
 Tantalus coal mine.
 Klondike gold fields. See maps No. 917 and [h].
 Juneau-Yakutat section. By L. Martin.
 Introduction.
 Annotated guide. (Juneau to Yakutat village.)
 The geology and physiography of Glacier bay. See maps [j]
 and [n].
 Geology and physiography of Yakutat bay. See maps [j] to [m],
 [o], and [p].
 Granby bay, Observatory inlet. (Introduction, geology, mineral-
 ization, extent and origin of the ore-bodies and a bibliography.)
 By R. G. McConnell.

Accompanying Maps and Sections:

- [a] General section along Bulkley river, from Hazelton to Telkwa [British
 Columbia]. Scale: 2.65 miles to 1 inch.
 [b] Route map between Vancouver and Calvert island [British Columbia].
 Scale: 28 miles to 1 inch. (In pocket.)
 [c] Route map between Calvert island and Prince Rupert [British Columbia].
 Scale: 26 miles to 1 inch. (In pocket.)
 [d] Route map between Prince Rupert and Telkwa [British Columbia]. Scale:
 12 miles to 1 inch.
 [e] Route map between Prince Rupert [British Columbia], and Frederick sound,
 [Alaska]. Scale: 24 miles to 1 inch. (In pocket.)
 [f] Route map between Frederick sound and Skagway [Alaska]. Scale: 24
 miles to 1 inch. (In pocket.)
 917. Map of the Yukon Territory. 1906. Scale: 32 miles to 1 inch. (In
 pocket.)

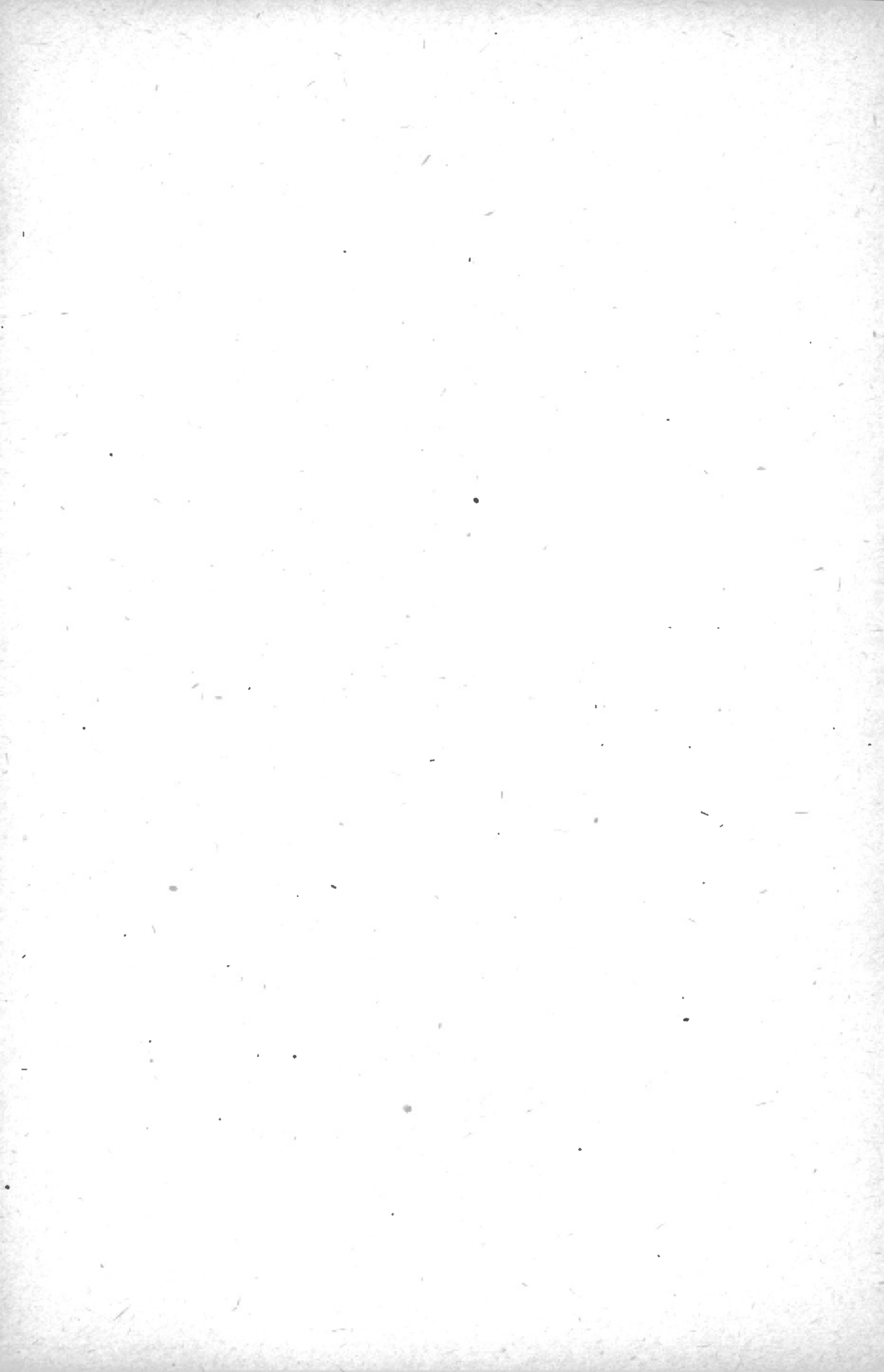
NOTE: The above map is not included in the English or French
 special editions issued by the Geological Survey. It also accom-
 panies Summary Report for 1905 (No 947).

- [g] Physiographic provinces of Yukon. Scale: 195 miles to 1 inch.
 [h] Map of main line ditch from Twelve-mile river to Bonanza creek, Yukon
 Territory. Scale: about 5.3 miles to 1 inch.
 [i] Map of Glacier bay in 1892. By H. F. Reid. (After U.S. Geol. Survey).
 Scale: 5.8 miles to 1 inch. (In pocket.)
 [j] Geological reconnaissance map of Yakutat Bay region, Alaska. (After U.S.
 Geol. Survey). Scale: 5 miles to 1 inch. (In pocket.)
 NOTE: The above two maps ([i] and [j]) are not included in the
 English or French special editions issued by the Geological Survey.
 [k] Submarine topography of Russell fiord [Alaska] (from soundings in 1910, by
 The National Geographic Society). Scale: 3½ miles to 1 inch. (In
 pocket.)
 [l] Map of Yakutat bay and vicinity [Alaska], showing measurements, of changes
 of level, and inferred fault lines. (After U.S. Geol. Survey). Scale: 4
 miles to 1 inch. (In pocket.)

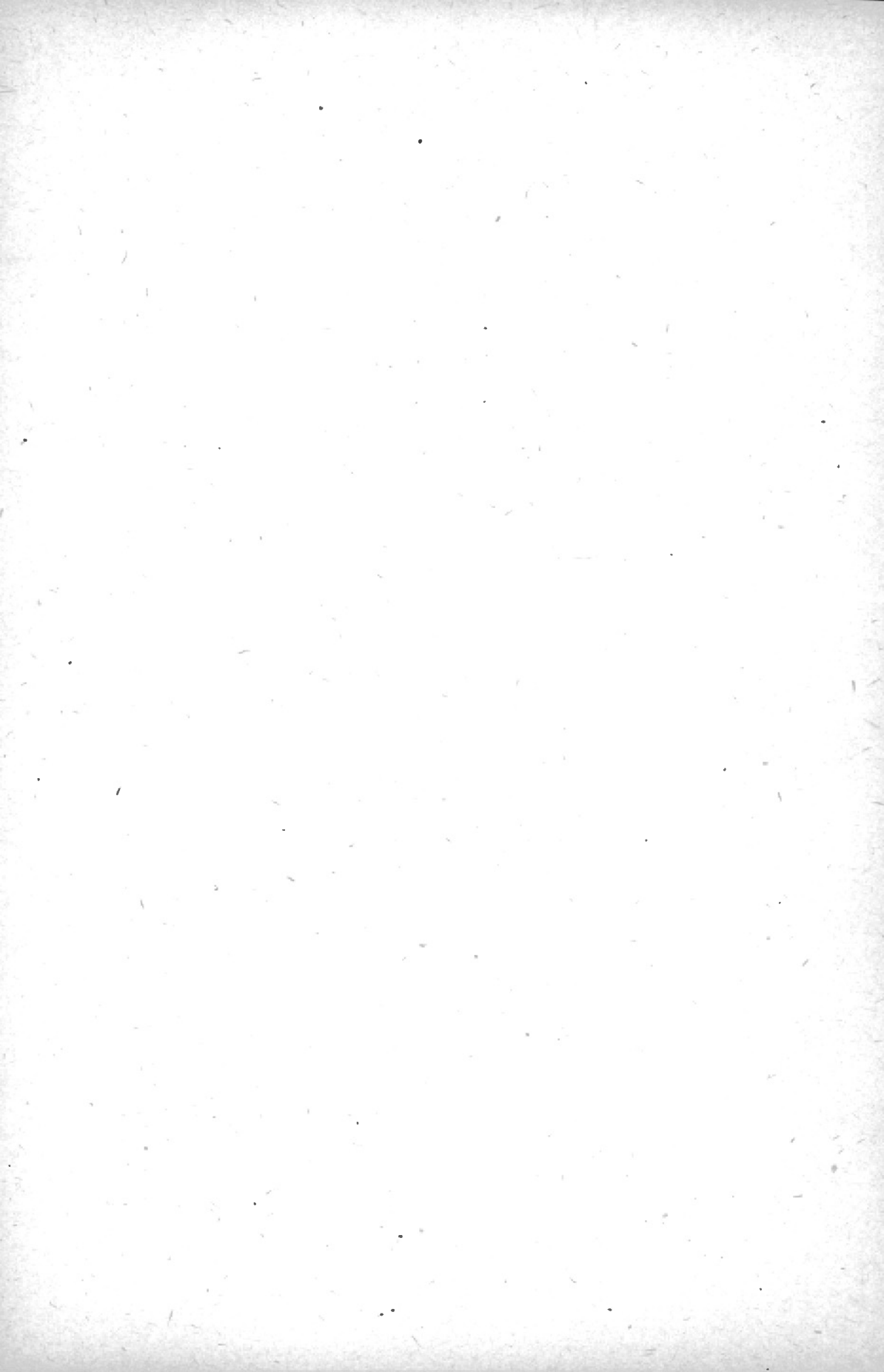
NOTE: The above map is not included in the English or French
 special editions issued by the Geological Survey.

- [m] Hubbard, Variegated, and Turner glaciers [Alaska]. (Reproduced by per-
 mission of the National Geographic Society). Scale: 1 mile to 1 inch.
 (In pocket.)
 [n] Map of Muir glacier [Alaska] in 1899 (Gilbert and Gannett); in 1903
 (Andrews); and in 1907 (Morse and Klotz). Scale: 6.6 miles to 1 inch.
 (After U.S. Geol. Survey).
 [o] Nunatak glacier [Alaska]. (Reproduced by the permission of The National
 Geographic Society). Scale: 0.75 miles to 1 inch.
 [p] Hidden glacier [Alaska]. (Reproduced by the permission of The National
 Geographic Society). Scale: 0.75 miles to 1 inch.
 [q] Diagram showing mineral deposits and workings on Alpha and adjacent
 mining claims, Hidden creek, Observatory inlet, British Columbia;
 geology by R. G. McConnell, 1911. Scale: 400 feet to 1 inch. (In
 pocket.)

NOTE: The above diagram is not included in the English or French
 special editions issued by the Geological Survey. It also
 accompanies Memoir 32 (No. 1235).



PART VI.
PALÆONTOLOGY.



PART VI.

PALÆONTOLOGY.

Includes only special publications and those which have been reprinted as separates. (See also Appendix, especially Whiteaves, J. F., and Lambe, L. M.)

- †40. Report on Canadian graptolites. Extracted from Sir William E. Logan's Report of Progress for 1857. Montreal, 1858. 8vo. pp. 39. By J. Hall.
NOTE: A reprint of pp. 109-145, Report of Progress, 1857. Pages renumbered.
- †41. Canadian fossils, containing descriptions of new genera and species, from the Silurian and Devonian formations of Canada; with some species previously described, but now for the first time indicated as occurring in Canada. (Extracted from the Report of the Geological Survey of Canada for the year 1857). Montreal [1858]. 8vo. pp. 31. With 24 illustrations. By E. Billings.
NOTE: Cover-title reads: "Canadian fossils, descriptions of some new genera and species, Silurian and Devonian formations of Canada." Caption-title reads: "Silurian and Devonian fossils of Canada." A reprint of pp. 165-192, Report of Progress, 1857. Repaged.
423. Figures and descriptions of Canadian organic remains. Decade I. [Fossils from the Calciferous, Chazy, and Trenton formations at Paquette rapids and Allumette island, Ottawa river, Pontiac county; and Beauharnois, Beauharnois county, Quebec.] Montreal, 1859. 8vo. pp. 47. With 67 illustrations. By J. W. Salter.
- †424. Figures and descriptions of Canadian organic remains. Decade II. Graptolites of the Quebec group. Montreal, 1865. 8vo. (limited edition, 4to). pp. ii, 151. With 332 illustrations, supplement, and an index. By J. Hall.
Supplement. Descriptions of species from the Utica slate, introduced for comparison and illustration.
425. Figures and descriptions of Canadian organic remains. Decade III. Montreal, 1858. 8vo. pp. 102. With 87 illustrations.
Contains:
On the *Cystidæ* of the Lower Silurian rocks of Canada. By E. Billings. pp. 9-74.
On the *Asteriada* of the Lower Silurian rocks of Canada. By E. Billings. pp. 75-85.
On *Cyclocystoides*, a new genus of *Echinodermata* from the Lower and Middle Silurian rocks. By J. W. Salter and E. Billings. pp. 86-90.
On the Palæozoic bivalve *Entomostraca* of Canada. By T. R. Jones. pp. 91-102.
NOTE: See also appendix to No. 440.
426. Figures and descriptions of Canadian organic remains. Decade IV. Montreal, 1859. 8vo. pp. 72. With 81 illustrations.
Contains:
On the *Crinoidea* of the Lower Silurian rocks of Canada. By E. Billings. pp. 7-66.
Memoir on the star-fish of the genus *Comatula*, demonstrative of the *Pentacrinus europæus* being the young of our indigenous species. (Extracted from Jameson's New Philosophical Journal, vol. XX, p. 295. Communicated to the Royal Society of London by Sir J. M'Grigor, and read June, 1835). By J. V. Thompson. pp. 67-72.
- †491. Lower Silurian fossils. (Extracted from the report for 1858 and 1859. Published in the Canadian Naturalist and Geologist, Oct. and Nov., 1859). Montreal, 1859. 8vo. pp. 86. With 64 illustrations. By E. Billings.

- Contains:
1. Fossils of the Calciferous sandrock, including those of a deposit of white limestone at Mingan, supposed to belong to the formation.
 2. Descriptions of some new species of trilobites from the Lower and Middle Silurian rocks of Canada.
 3. Fossils of the Chazy limestone, with descriptions of new species.
- NOTE: Cover-title reads: "Lower Silurian fossils. 1. Fossils of the Calciferous sandrock. 2. Descriptions of new species of trilobites. 3. Fossils of the Chazy limestone." The pages of the Canadian Naturalist and Geologist containing the articles are bound together without renumbering, and portions of other articles appear on some. Billing's report for 1858 and 1859, referred to above, was not published. Illustrations were reprinted in "Geology of Canada" (No. 50).
- †464. New species of Lower Silurian fossils, Montréal, 21st November, 1861. 8vo. pp. 24. With 25 illustrations. By E. Billings.
- Contains:
1. On some new or little-known species of Lower Silurian fossils from the Potsdam group (Primordial zone). pp. 1-18.
 2. On some new species of fossils from the Calciferous, Chazy, Black River, and Trenton formations. pp. 18-24.
- †465. New species of Lower Silurian fossils. (Being a continuation of the paper published 21st November, 1861). Montreal, 21st January, 1862. 8vo. pp. 25-56 (paging continuous with No. 464). With 35 illustrations. By E. Billings.
- †466. New species of Lower Silurian fossils. (Being a continuation of the paper published 21st January, 1862). Montreal, 6th June, 1862. 8vo. pp. 57-168 (paging continuous with No. 465). With 92 illustrations. By E. Billings.
- Contains:
3. On some new species of fossils from the Quebec group. pp. 57-96.
 4. New species of fossils from different parts of the Lower, Middle, and Upper Silurian rocks of Canada. pp. 96-168.
- †467. New species of Lower Silurian fossils. (Being a continuation of the paper published 6th June, 1862). Montreal, February, 1865. 8vo. pp. 169-344 (paging continuous with No. 466.) With 179 illustrations. By E. Billings.
- Contains:
4. New species of fossils from different parts of the Lower, Middle and Upper Silurian rocks of Canada (Continuation). pp. 169-185.
 5. New species of fossils from the limestones of the Quebec group from Point Lévis and other localities in Canada East. pp. 185-206.
 6. New species of fossils from the Quebec group in the northern part of Newfoundland. pp. 207-300.
 7. New species of fossils from the Quebec group in Eastern Canada, with some others previously described, and some from other formations. pp. 301-338.
 8. New species of fossils from the Calciferous formation, with remarks on some others previously described. pp. 339-344. (Part of article only.)
- †431. Palæozoic fossils, volume I. Containing descriptions and figures of new and little-known species of organic remains from the Silurian rocks. (1861-1865). Montreal, 1865. 8vo. pp. iii, 426. With 401 illustrations and appendix. By E. Billings.
- NOTE: Nos. 464 to 467 were reprinted in this volume, with various alterations (specified in the appendix), in Nos. 464 and 466. Remainder of the volume, pp. 345-426, is new matter and bears date October, 1865.
- Contains:
1. On some new or little-known species of Lower Silurian fossils from the Potsdam group (Primordial zone). pp. 1-18.
 2. On some new species of fossils from the Calciferous, Chazy, Black River, and Trenton formations. pp. 18-56.

3. On some new species of fossils from the Quebec group. pp. 57-96.
 4. New species of fossils from different parts of the Lower, Middle, and Upper Silurian rocks of Canada. pp. 96-185.
 5. New species of fossils from the limestones of the Quebec group from Point Lévis and other localities in Canada East. pp. 185-206.
 6. New species of fossils from the Quebec group in the northern part of Newfoundland. pp. 207-300. See also No. 9.
 7. New species of fossils from the Quebec group in Eastern Canada, with some others previously described, and some from other formations. pp. 301-338.
 8. New species of fossils from the Calciferous formation, with remarks on some others previously described. pp. 339-361.
 9. New species of fossils from the Quebec group in the northern part of Newfoundland, with a few from the Potsdam group. (Continued from p. 300). pp. 361-377. See also No. 6.
 10. Fossils from various formations in the Silurian and Devonian systems. pp. 377-395.
 11. Species from the Quebec group, published in 1860. (Descriptions of trilobites originally published in the Canadian Naturalist and Geologist, vol. V, August, 1860, pp. 201-224.)
NOTE: Pages 205-224 in Canadian Naturalist and Geologist are wrongly numbered "305-324."
 12. List of the organic remains of the Lévis formation.
Appendix. (Notes on alterations made in reprinting Nos. 464 and 466. Also additional figures of species previously described.)
432. Palæozoic fossils, volume II, part I. Montreal, August, 1874. 8vo. pp. ii, 144. With 157 illustrations. By E. Billings.
Contains:
1. On some of the fossils of the Gaspé series of rocks. pp. 1-64.
 2. On some new species of fossils from the Primordial rocks of Newfoundland. pp. 64-78.
 3. On the genus *Stricklandinia*, with descriptions of the Canadian species. pp. 78-89.
 4. Notes on the structure of the *Crinoidea*, *Cystidea*, and *Blastoidea*. pp. 90-128. (Reprinted from American Journal of Science without alteration, but corrections and additions added at the end.)
 5. On some of the fossils of the Arisaig series of rocks, Upper Silurian, Nova Scotia. pp. 129-144.
433. Palæozoic fossils, vol. III, part I. Montreal, March, 1884. 8vo. pp. iii, 43. With 53 illustrations. By J. F. Whiteaves.
Contains:
1. On some new, imperfectly characterized, or previously unrecorded species of fossils from the Guelph formation of Ontario.
564. Palæozoic fossils, vol. III, part II. Ottawa, September, 1895. 8vo. pp. iii, 45-128 (paging continuous with No. 433). With 43 illustrations. By J. F. Whiteaves.
Contains:
2. Revision of the fauna of the Guelph formation of Ontario, with descriptions of a few new species.
 3. Systematic list, with references, of the fossils of the Hudson River or Cincinnati formation at Stony Mountain, Manitoba.
615. Palæozoic fossils, vol. III, part III. Ottawa, April, 1897. 8vo. pp. iii, 129-242 (paging continuous with No. 564). With 49 illustrations. By J. F. Whiteaves.
Contains:
4. The fossils of the Galena-Trenton and Black River formations of lake Winnipeg and its vicinity.
950. Palæozoic fossils, vol. III, part IV (and last). Ottawa, October 10 (dated September), 1906. 8vo. pp. iii, 243-345 (paging continuous with No. 615). With 95 illustrations, appendix, and index to generic and specific names in the complete volume. By J. F. Whiteaves.
Contains:
5. The fossils of the Silurian (Upper Silurian) rocks of Keewatin, Man-

itoba, the northeastern shore of lake Winnipegosis, and the lower Saskatchewan river. pp. 243-298.

A. From Keewatin.

A1. From the Attawapiskat river. Collected by Dr. R. Bell in 1886.

A2. From the Ekwan river. Collected by Mr. D. B. Dowling in 1901.

A3. From Sutton Mill lakes. From the cliff of limestone on the small island in the northern lake. Collected by Mr. D. B. Dowling in 1901.

A4. From the Winisk river. Collected by Mr. W. McInnes in 1903.

A5. From "Limestone rapid," Fawn river, or branch of the Severn. Collected by Mr. A. P. Low in 1886.

B. From Manitoba.

B1. From Stonewall. Collected by T. C. Weston in 1884, by D. B. Dowling in 1891 and 1902, and by J. B. Tyrrell and W. H. Robson in 1897.

B2. From Davis point, lake Manitoba. Collected by J. B. Tyrrell and J. F. Whiteaves in 1888.

C. From the northeast shore of lake Winnipegosis. Collected by Mr. J. B. Tyrrell in 1889.

D. From the lower Saskatchewan. Collected by Mr. J. B. Tyrrell in 1889 and 1890, and Mr. D. B. Dowling in 1891.

6. The Canadian species of *Plectoceras* and *Barrandeoceras*. pp. 299-312.

7. Illustrations of seven species of fossils from the Cambrian, Cambro-Silurian, and Devonian rocks of Canada. pp. 313-325.

A. From the Cambrian rocks of British Columbia.

B. From the Cambro-Silurian rocks of Quebec and Ontario.

B1. From the Lévis formation of Quebec.

B2. From the Trenton limestone of Quebec and Ontario.

C. From the Devonian rocks of Ontario.

8. Revised list of the fossils of the Guelph formation of Ontario. pp. 327-340.

Appendix. *Errata et corrigenda* (for the complete volume). pp. 341-345.

†530.

[Reprint of articles III, VIII, and XI, published in the Canadian Naturalist and Geologist, volume VIII, 1863.] Cover-title reads:

1. Parallelism of the Quebec group. Description of a new species of *Harpes*. On the spiral coils of *Cyrtina*, with description of a new species. By E. Billings.

2. Description of a new trilobite from the Quebec group. By T. Devine.

3. On the remains of the fossil elephant found in Canada. By E. Billings.

Montreal, 1863. 8vo. pp. 36 (repaged). With 11 illustrations.

NOTE: Caption-titles of No. 1 read: "On the parallelism of the Quebec group with the Llandeilo of England and Australia, and with the Chazy and Calciferous formations." "Description of a new species of *Harpes* from the Trenton limestone, Ottawa." "On the internal spiral coils of the genus *Cyrtina*."

†427.

Catalogues of the Silurian fossils of the island of Anticosti, with descriptions of some new genera and species. Montreal, November, 1866. 8vo. pp. 93. With 28 illustrations. By E. Billings.

NOTE: Title is misleading, as fossils from other localities are included.

Contains:

Catalogue of the Lower Silurian fossils of Anticosti, with descriptions of some of the species. pp. 6-28.

Catalogue of the fossils of the Anticosti group with descriptions of some of the species. pp. 29-72.

Additional species from the Hudson River group. pp. 72-75.

General observations on the Palæozoic fossils of Anticosti. pp. 75-82.

New species of fossils from the Clinton and Niagara formations. (From Grimsby, Rockwood, Cabot head, and near Owen Sound on Georgian bay, and Manitoulin islands, lake Huron, Ontario.) pp. 82-93.

†428.

The fossil plants of the Devonian and Upper Silurian formations of Canada.

- Montreal, 1871. 8vo. pp. i, 92. With 257 illustrations. By J. W. Dawson.
 Contains:
 I. Historical notice of the pre-Carboniferous flora of Canada, with its geological relations. pp. 5-10.
 II. Revision of the pre-Carboniferous flora, with descriptions of new species. pp. 11-67.
 III. General remarks and conclusions. pp. 67-86.
- †429. The fossil plants of the Erian (Devonian) and Upper Silurian formations of Canada. Part II. Montreal, 1882. 8vo. pp. i, 93-142 (paging continuous with No. 428). With 27 illustrations. By J. W. Dawson.
 Contains:
 I. Introduction. p. 95.
 II. Erian and Upper Silurian plants from the Restigouche river and the baie de Chaleur. pp. 96-113.
 III. New ferns from the Middle Erian of St. John, New Brunswick. pp. 114-118.
 IV. The nature and affinities of *Ptilophyton*. pp. 119-123.
 V. Note on Erian trees of the genus *Dadoxylon*, Unger, (*Araucarites* of Goepfert, *Araucarioxylon* of Krans). pp. 124, 125.
 VI. The genus *Cladoxylon* in America. p. 126.
 VII. Comparative view of the successive Palæozoic floras of Canada. pp. 127-132.
 VIII. On the bearing of Canadian Palæozoic botany on questions as to the origin and extinction of species. pp. 133-140.
- †430. Report on the fossil plants of the Lower Carboniferous and Millstone Grit formations of Canada. Montreal, 1873. 8vo. pp. 47. With 96 illustrations. By J. W. Dawson.
 Contains:
 I. Introduction. (Sketch of the geology of the Lower Carboniferous coal measures and Millstone Grit, with the equivalent formations abroad.) pp. 5-14.
 II. Plants of the Horton series or Lower Carboniferous coal measures. pp. 15-28.
 III. Plants of the Millstone Grit. (A list of species.) pp. 29-34.
 IV. Plants of the Middle and Upper Coal-formation. pp. 35-38.
 V. Note on the characters of Sigillaroid and Lepidodendroid trunks. pp. 39-42.
 VI. Appendix. On some new forms of *Sigillaria* and *Lepidodendron*. pp. 43-45.
- †97. Notes on the Cretaceous fossils collected by Mr. James Richardson at Vancouver and the adjacent islands. Extracted from the Report of Progress for 1873-74. Montreal, 1874. 8vo. pp. 13. With 7 illustrations. By J. F. Whiteaves.
 NOTE: Author's name misprinted "G. F. Whiteaves" in cover-title.
434. Mesozoic fossils, volume I, part I. On some invertebrates from the coal-bearing rocks of the Queen Charlotte islands, collected by J. Richardson in 1872. Montreal, 1876. 8vo. pp. ii, 92. With map No. 435, and 44 other illustrations. By J. F. Whiteaves.
- Accompanying Map:*
435. Map showing the localities of fossils collected by James Richardson in 1872, from the Queen Charlotte islands. (Comprises part of Graham island.) 1876. Scale: about 1½ mile to 1 inch.
436. Mesozoic fossils, volume I, part II. On the fossils of the Cretaceous rocks of Vancouver and adjacent islands in the strait of Georgia. Montreal, 1879. 8vo. pp. ii, 93-190 (paging continuous with No. 434). With 67 illustrations. By J. F. Whiteaves.
437. Mesozoic fossils, volume I, part III. On the fossils of the coal-bearing deposits of the Queen Charlotte islands collected by G. M. Dawson in 1878. Montreal, April, 1884. 8vo. pp. iii, 191-262 (paging continuous with No. 436). With 51 illustrations. (Plate No. 33, referred to in text, was published with part IV.) By J. F. Whiteaves.

706. Mesozoic fossils, volume I, part IV. On some additional or imperfectly understood fossils from the Cretaceous rocks of the Queen Charlotte islands, with a revised list of the species from these rocks. Ottawa, November, 1900. 8vo. pp. iii, 263-307 (paging continuous with No. 437). With 29 illustrations. By J. F. Whiteaves.
827. Mesozoic fossils, volume I, part V (and last). On some additional fossils from the Vancouver Cretaceous, with a revised list of the species therefrom. Ottawa, July, 1903. 8vo. pp. iv, 309-415 (paging continuous with No. 706). With 17 illustrations, title-page, letter of transmittal, and index to generic and specific names for the complete volume. By J. F. Whiteaves.
- †109. The insects of the Tertiary beds at Quesnel (British Columbia). From the Report of Progress, 1875-76, Geological Survey of Canada. [Montreal, 1877.] 8vo. pp. 15. By S. H. Scudder.
NOTE: A reprint of appendix to report by G. M. Dawson. Pages renumbered.
- †116. Notes on some Jurassic fossils, collected by Mr. G. M. Dawson, in the Coast range of British Columbia. [Montreal, 1878.] 8vo. pp. 10. With 1 illustration. By J. F. Whiteaves.
NOTE: A reprint of pp. 150-159, Report of Progress, 1876-77. Pages renumbered.
- †118. Additions to the insect-fauna of the Tertiary beds at Quesnel (British Columbia). From the Report of Progress, 1876-77, Geological Survey of Canada. [Montreal, 1878.] 8vo. pp. 8.
NOTE: A reprint of pp. 457-464. Pages renumbered.
- †110. Insects from the Tertiary beds of the Nicola and Similkameen rivers, British Columbia. (From the Report of Progress, 1877-78, Geological Survey of Canada.) [Montreal, 1879.] 8vo. pp. 11.
NOTE: Caption-title reads as in the volume. A reprint of Appendix A to part B. Pages renumbered.
- †438. Contributions to the micro-palaeontology of the Cambro-Silurian rocks of Canada. (Part I.) Ottawa, 1883. 8vo. pp. 26. With 13 illustrations. By A. H. Foord.
Contains:
1. On the *Monticuliporidae* of the Chazy, Black River, and Trenton formations, with descriptions of ten new species. pp. 7-22.
2. On some previously unrecorded species of *Ptilodictya*, *Stictopora*, and *Arthronema*, from the Trenton formation. pp. 22-24.
3. On two species of *Tetradium* from the Trenton and Hudson River formations. pp. 24-26.
439. Contributions to the micro-palaeontology of the Cambro-Silurian rocks of Canada, part II. Montreal, 1889. 8vo. pp. iii, 27-57 (paging continuous with No. 438). With 20 illustrations. By E. O. Ulrich.
Contains:
4. On some *Polyzoa* (*Bryozoa*) and *Ostracoda* from the Cambro-Silurian rocks of Manitoba. (From Stony mountain and St. Andrews, near Winnipeg.)
NOTE: Plates omitted, through binder's error, in some copies.
440. Contributions to Canadian micro-palaeontology, part III. Montreal, 1891. 8vo. pp. vi, 59-99 (paging continuous with No. 439). With 69 illustrations and appendix. By T. R. Jones.
Contains:
5. On some *Ostracoda* from the Cambro-Silurian, Silurian, and Devonian rocks.
Appendix. Notes on the species of *Ostracoda* described and figured in Decade III, of the Geological Survey of Canada, published in 1858.
NOTE: Title of volume, having been found too restricted in its scope, was changed with this part.
441. Contributions to Canadian micro-palaeontology, part IV. Ottawa, 1892. 8vo. pp. v, 101-110 (paging continuous with No. 440). With 17 illustrations. Introduction by J. B. Tyrrell. By D. Rüst.
Contains:

6. *Radiolaria* from the Pierre formation of north-western Manitoba.
442. Contributions to Canadian palæontology, volume I, part I. Montreal, 1885. 8vo. pp. iii, 89. With 51 illustrations. By J. F. Whiteaves.
NOTE: Intended, as stated by the author, as a palæontological appendix to part C, Annual Report, 1882-84.
- Contains:
1. Report on the *Invertebrata* of the Laramie and Cretaceous rocks of the vicinity of the Bow and Belly rivers and adjacent localities in the North-West Territory.
 - A. From the western Laramie.
 - (1) From the Porcupine Hill series.
 - (2) From the Willow Creek series.
 - (3) From the St. Mary River series and lower portion of the Laramie generally.
 - B. From the Laramie of the Souris River district.
 - C. From the "Fox Hills" and "Fort Pierre" groups of the Upper Cretaceous.
 - D. From the Belly River series.
 - (1) From the pale or upper portion of the series.
 - (2) From the lower or yellowish and banded portion of the series.
 - E. From the "lower dark shales" of Dr. Dawson's report.
 - F. Exact geological horizon uncertain.
- †443. Contributions to Canadian palæontology, volume I, part II. Montreal, 1889. 8vo. pp. iii, 91-196 (paging continuous with No. 442). With 74 illustrations. By J. F. Whiteaves.
- Contains:
2. On some fossils from the Hamilton formation of Ontario, with a list of the species at present known from that formation and province.
 3. On some fossils from the Triassic rocks of British Columbia.
 4. On some Cretaceous fossils from British Columbia, the North West Territory, and Manitoba.
 - A. From the earlier Cretaceous of British Columbia.
 - B. From the North West Territory.
 - (1) From Rink rapids, on the Lewes river, a tributary of the Yukon, in latitude $62^{\circ} 20'$, and longitude $136^{\circ} 30'$; collected by Dr. G. M. Dawson in 1887.
NOTE: Latitude erroneously given in title as: " $60^{\circ} 20'$."
 - (2) From the Rocky mountains three miles north of the east end of Devil's lake; collected by R. G. McConnell in 1887.
 - (3) From the Peace river, a few miles below Fort Vermilion; collected by Mr. W. Ogilvie, D.L.S., in 1885.
 - (4) From the Fort Pierre group of the later Cretaceous rocks of the Saskatchewan and its tributaries; collected by J. B. Tyrrell in 1885 and 1886.
 - C. From Manitoba. From the Niobrara-Benton formation of the later Cretaceous in the Duck and Riding Mountain district.
NOTE: The author states, in his preface and his summary reports for 1887 and 1889, that advance copies of portions of the letter-press were issued as follows: pp. 91-122 in September, 1887, pp. 123-150 in December, 1888, pp. 151-184 in June, 1889, pp. 185-196 in August, 1889. (Copies have not been seen.) Pages 174 to 184 are reprinted, with some additions, from appendix I to part E, Annual Report, 1886.
444. Contributions to Canadian palæontology, volume I, part III. Montreal, 1891. 8vo. pp. iii, 197-253 (paging continuous with No. 443). With 53 illustrations. By J. F. Whiteaves.
- Contains:
5. The fossils of the Devonian rocks of the Mackenzie River basin.
445. Contributions to Canadian palæontology, volume I, part IV. Ottawa, 1892. 8vo. pp. iii, 255-360 (paging continuous with No. 444). With 130 illustrations. By J. F. Whiteaves.
- Contains:
6. The fossils of the Devonian rocks of the islands, shores, or immediate vicinity of lakes Manitoba and Winnipegosis.

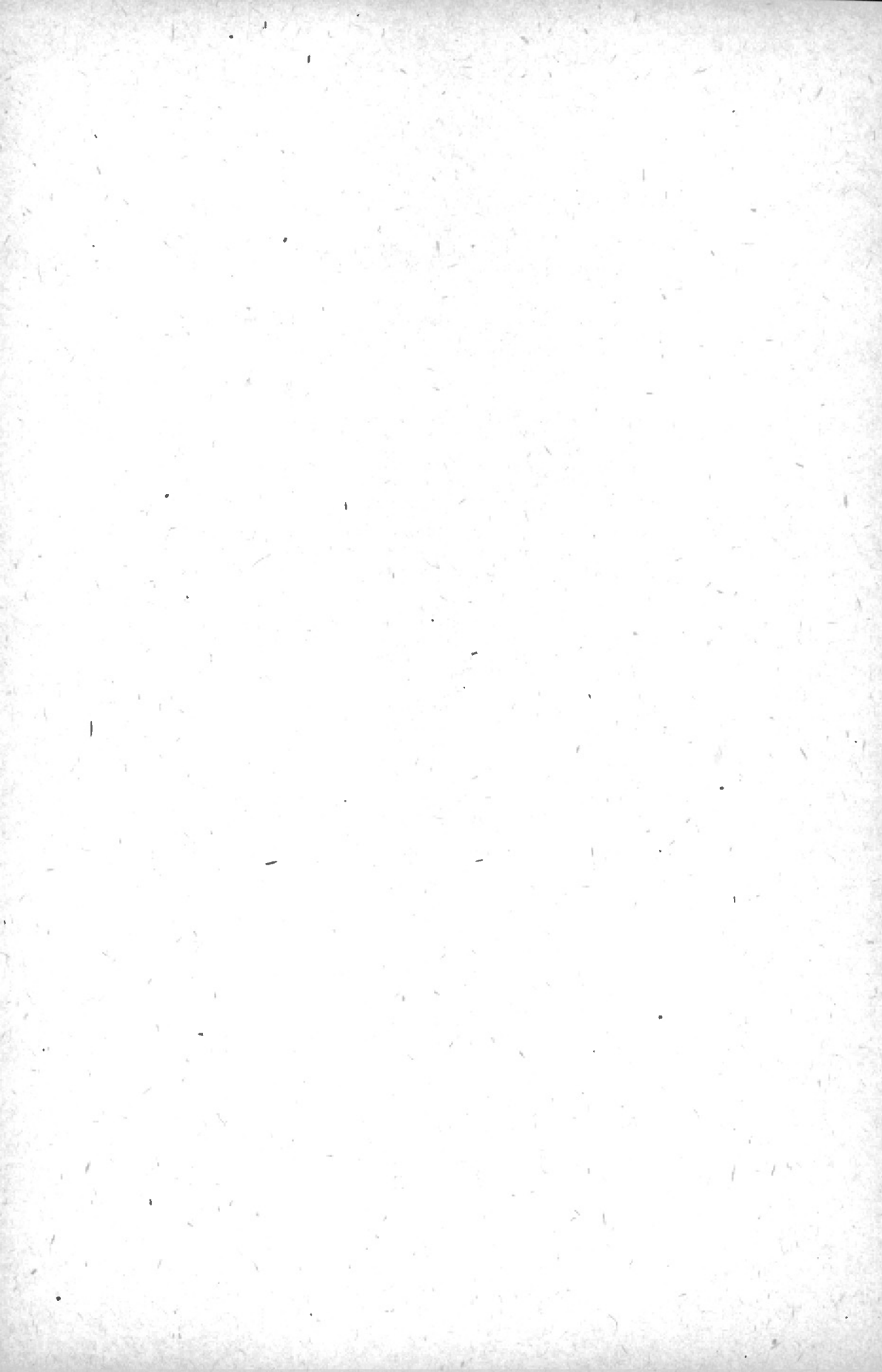
659. Contributions to Canadian palæontology, volume I, part V (and last). Ottawa, 1898 (dated 1885-1898, referring to complete volume). 8vo. pp. 1, 361-436 (paging continuous with No. 445), and slip of instructions to binder. With 25 illustrations, title-page, letter of transmittal, appendix, and index to generic and specific names for the complete volume. By J. F. Whiteaves.
 Contains:
 7. On some additional or imperfectly understood fossils from the Hamilton formation of Ontario, with a revised list of the species therefrom.
 NOTE: Supplementary to article No. 2 in part II.
 8. Appendix (to complete volume). Revision of the nomenclature of some of the species described or enumerated in previous parts of this volume, and additional notes on others, necessitated by the progress of palæontological research.
575. Contributions to Canadian palæontology, volume II, part I. Canadian fossil insects, myriapods, and arachnids. Ottawa, 1895. 8vo. pp. 66. With 42 illustrations. By S. H. Scudder.
 Contains:
 †479. 1. The Tertiary *Hemiptera* of British Columbia. April, 1891. pp. 26. With 10 illustrations. (pp. 1-26.)
 NOTE: The plate of illustrations is missing in the separate.
 †480. 2. The *Coleoptera* hitherto found fossil in Canada. [1892?.] pp. 30. With 16 illustrations. (pp. 27-56.)
 †481. 3. Notes upon myriapods and arachnids found in sigillarian stumps in the Nova Scotia coal field. [189-?.] pp. 10. With 16 illustrations. (pp. 57-66.)
 NOTE: The above three papers (Nos. 479, 480, and 481) were each issued in advance of the complete publication No. 575. Edition limited.
710. Contributions to Canadian palæontology, volume II, part II. Canadian fossil insects. Ottawa, 1901 (dated 1900). 8vo. pp. iii, 67-92 (paging continuous with No. 575). With 58 illustrations. By S. H. Scudder.
 Contains:
 4. Additions to the coleopterous fauna of the interglacial clays of the Toronto district. With an appendix by A. D. Hopkins on the scolytid borings from the same deposits.
 Appendix. Work of the prehistoric scolytid, *Phloeosinus squalidens*, Scudd. By A. D. Hopkins.
1141. Contributions to Canadian palæontology, volume II, part III. Canadian fossil insects. Ottawa, 1911 (dated 1910). 8vo. pp. viii, 93-129 (paging continuous with No. 710). With 36 illustrations. By A. Handlirsch.
 NOTE: Published as Memoir No. 12.
 Contains:
 5. Insects from the Tertiary lake deposits of the southern interior of British Columbia, collected by L. M. Lambe in 1906.
446. Contributions to Canadian palæontology, volume III (quarto), part I. On *Vertebrata* from the Tertiary and Cretaceous rocks of the North West Territory. I. The species from the Oligocene or Lower Miocene beds of the Cypress hills. Montreal, 1891. 4to. pp. iii, 25. With 60 illustrations. By E. D. Cope.
 NOTE: The publication of the contemplated second part, on the *Vertebrata* of the Laramie formation of the North West Territory, by E. D. Cope, was prevented by his death in 1897.
- †774. Contributions to Canadian palæontology, volume III (quarto), part II. On *Vertebrata* of the Mid-Cretaceous of the North West Territory. Ottawa, September, 1902. 4to. pp. 81, and page of errata (issued separately). With 137 illustrations. By H. F. Osborn and L. M. Lambe.
 Contains:
 1. Distinctive characters of the Mid-Cretaceous fauna. By H. F. Osborn.

2. New genera and species from the Belly River series (Mid-Cretaceous)
By L. M. Lambe.
870. Contributions to Canadian palæontology, volume III (quarto), part III.
On *Dryptosaurus incrassatus* (Cope), from the Edmonton series of the
North-West Territory. Ottawa, July, 1904. 4to. pp. 27. With 24
illustrations. By L. M. Lambe.
1020. Contributions to Canadian palæontology, volume III (quarto), part IV.
The *Vertebrata* of the Oligocene of the Cypress hills, Saskatchewan.
Ottawa, March 26, 1909 (dated 1908). 4to. pp. 65. With 161 illustra-
tions. By L. M. Lambe.
- †1109. Contributions to Canadian palæontology, volume III (quarto), part V.
Palæoniscid fishes from the Albert shales of New Brunswick. Ottawa,
[August 17], 1910. 4to. pp. 69. With 49 illustrations. By L. M.
Lambe.
- NOTE: Published as Memoir No. 3.
684. Contributions to Canadian palæontology, volume IV, part I. A revision of
the genera and species of Canadian Palæozoic corals. The *Madreporaria*
Perforata and the *Alcyonaria*. Ottawa. 1899. 8vo. pp. iii, 96. With
42 illustrations. By L. M. Lambe.
712. Contributions to Canadian palæontology, volume IV, part II. A revi-
sion of the genera and species of Canadian Palæozoic corals. The
Madreporaria Aporosa and the *Madreporaria Rugosa*. Ottawa [May],
1901 (dated 1900 on title-page). 8vo. pp. iii, 97-200 (paging continuous
with No. 684), and erratum slip. With 83 illustrations and index to
generic and specific names for the complete volume. By L. M. Lambe.
- †214. The *Vertebrata* of the Swift Current Creek region of the Cypress hills.
(Extracted from Annual Report, Geological and Natural History Survey
of Canada, 1885). [Montreal], May, 1886. 8vo. pp. 7. By E. D.
Cope.
- NOTE: A reprint of appendix I to part C. Pages renumbered.
- †483. Preliminary lists of the organic remains occurring in the various geological
formations comprised in the south-west quarter-sheet map of the
Eastern Townships of the province of Quebec. (Reprinted from Annual
Report, Geological Survey of Canada, vol. VII, new series). [Ottawa,
1896.] 8vo. pp. 45. By H. M. Ami.
- NOTE: A reprint of appendix to part J.
490. Preliminary lists of the organic remains occurring in the various geological
formations comprised in the map of the Ottawa district, including
portions of the provinces of Quebec and Ontario, along the Ottawa river.
Reprinted from Annual Report, Geological Survey of Canada (new
series), vol. XII, pp. 51-77G. [Ottawa], December, 1901. By H. M.
Ami.
- NOTE: A reprint of appendix to part G.
- †912. On *Trionyx foveatus*, Leidy, and *Trionyx vagans*, Cope, from the Cretaceous
rocks of Alberta. Reprinted from the Summary Report for the year
1901. Ottawa, 1902. pp. 6 (renumbered). With 4 illustrations. By
L. M. Lambe.
797. Report on the Cambrian rocks of Cape Breton. 1903. With 128 illustra-
tions. By G. F. Matthew.¹
- NOTE: Deals mainly with the fossils found in the rocks. Some
Cambrian fossils from New Brunswick are figured.
- †494. Preliminary list of fossils from the Silurian (upper Silurian) rocks of the
Ekwan river and Sutton Mill lakes, Keewatin, collected by D. B.
Dowling in 1901, with descriptions of such species as appear to be new.
(Extracted from Mr. Dowling's report on that region). Ottawa, 1904.
8vo. pp. 24. By J. F. Whiteaves.
- NOTE: A reprint of appendix I to part F, Annual Report, 1901.
Pages renumbered.
- †495. Preliminary lists of fossil organic remains from the Potsdam, Beekmantown
(Califerous), Chazy, Black River, Trenton, Utica, and Pleistocene
formations comprised within the Perth sheet (No. 119) in eastern

¹ For full entry see p. 191.

- Ontario. Reprinted from Annual Report, Geological Survey of Canada, vol. XIV, pp. 80-89J. Ottawa, January, 1905.
NOTE: A reprint of appendix to part J. Repaged, although retaining pagination numbers of original report.
- †493. I. Notes on a small collection of organic remains from the Messenger Brook shales, Torbrook district, Nova Scotia.
II. Notes on the geological horizons indicated by the fossil plants recently determined by Prof. Penhallow from various localities in British Columbia and the North West Territories, Canada.
III. Description of a presumably new species of *Bythotrephes* (*B. Yukonensis*), from the Unihani River shales, Yukon Territory.
IV. Preliminary lists of fossil remains from various localities and horizons in New Brunswick.
Reprinted from 'Summary Report of the Geological Survey Department of Canada for the calendar year, 1904'. Ottawa, September, 1905. 8vo. pp. 15. By H. M. Ami.
NOTE: A reprint of appendices II, III, and IV to the Summary Report, 1904, and of the appendix to report by L. W. Bailey in the same. Caption-titles vary greatly from those on the title-page.
- †954. Notes on the fossil corals collected by Mr. A. P. Low at Beechy island, Southampton island, and cape Chidley, in 1904. (Being a reprint from appendix to Mr. Low's report on "The cruise of the *Neptune*"). Ottawa, 1907. 8vo. pp. 9. With 3 illustrations.
NOTE: Contains a portion (pp. 322-328) of appendix IV to No. 905. Repaged. See full entry on p. 192.
- †1013. Report on Tertiary plants of British Columbia collected by Lawrence M. Lambe in 1906, together with a discussion of previously recorded Tertiary floras. Ottawa [June 8], 1908. 4to. pp. 167. With 34 illustrations. By D. P. Penhallow.
1150. Memoir No. 15. On a Trenton echinoderm fauna at Kirkfield, Ontario. 1911. With 56 illustrations. By F. Springer.
- †1024. Notes on fossils from limestone of Steeprock lake, Ontario. (Reprint of App. to Memoir No. 28, Geological Survey, Canada). Ottawa, 1912. 8vo. pp. 11. With 8 illustrations. By C. D. Walcott.
- 1240a. The Trenton crinoid, *Ottawacrinus* (W. R. Billings).
Note on *Merocrinus* (Walcott).
(From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 16 (1-16). With 9 illustrations. By F. A. Bather.
NOTE: A reprint of articles I and II.
- 1240b. The occurrence of Helodont teeth at Roche Miette and vicinity, Alberta. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 6 (17-22.) With 5 illustrations. By L. M. Lambe.
NOTE: A reprint of article III.
- 1240c. Notes on *Cyclocystoides*.
Note on some new and old trilobites in the Victoria Memorial Museum.
Description of some new *Asaphidae*.
Two new species of *Tetradium*.
Revision of the species which have been referred to the genus *Bathyurus*. (Preliminary paper.)
(From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 58 (23-80). With 48 illustrations. By P. E. Raymond.
NOTE: A reprint of articles IV, V, VI, VII, and VIII.
- 1240d. A new brachiopod from the base of the Utica. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 6 (81-86). With 3 illustrations. By A. E. Wilson.
NOTE: A reprint of article IX.

- 1240e. A new genus of dicotyledonous plant from the Tertiary of Kettle river, British Columbia.
A new species of *Lepidostrobus*.
(From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913).
[Ottawa, December 28, 1913.] 8vo. pp. 8 (87-94). With 5 illustrations.
By W. J. Wilson.
- 1342f. Early Cambrian stratigraphy in the North American Cordillera, with discussion of the *Albertella* and related faunas. 'Reprint from Museum Bulletin No. 2, separate pagination' (hand-stamped on cover).
Ottawa, July 6, 1914. 8vo. pp. 37. By L. D. Burling.
NOTE: A reprint of article VI. Form of cover uniform with Bulletin No. 2, except date, and the addition of "Geological Series, No. 17".
- 1342g. A preliminary study of the variations of the plications of *Parastrophia hemiplicata*, Hall. 'Reprint from Museum Bulletin No. 2, separate pagination' (hand-stamped on cover).
Ottawa, July 11, 1914. 8vo. pp. 10. With 39 illustrations. By A. E. Wilson.
NOTE: A reprint of article VII. Form of cover uniform with Bulletin No. 2, except date, and the addition of "Geological Series, No. 18".
1309. (E) Memoir No. 41. The "Fern ledges" Carboniferous flora of St. John, New Brunswick. 1914. With 90 illustrations. By M. C. Stopes.
1595. (F) Museum Bulletin No. 3. The Anticosti Island fauna. 1914. With 15 illustrations. By W. H. Twenhofel.
1467. Museum Bulletin No. 5. A *Beatricea*-like organism from the middle Ordovician. 1914. With 16 illustrations. By P. E. Raymond.
1510. Museum Bulletin No. 12. On *Ecoceratops canadensis*, gen. nov., with remarks on other genera of Cretaceous horned dinosaurs. 1915. With 24 illustrations. By L. M. Lambe.
1574. Museum Bulletin No. 20. An eurypterid horizon in the Niagara formation of Ontario. 1915. With 24 illustrations. By M. Y. Williams.
1576. Museum Bulletin No. 21. Notes on the geology and palaeontology of the lower Saskatchewan River valley. 1915. With 31 illustrations. By E. M. Kindle.
1248. (E) Memoir No. 34. The Devonian of southwestern Ontario. 1915. With map No. 1337 and 21 other illustrations. By C. R. Stauffer.
1249. (F) NOTE: The palaeontology of the system forms a large part of the memoir.
1591. Memoir No. 83. Upper Ordovician formations in Ontario and Quebec. 1916. With 8 illustrations. By A. F. Foerste.
NOTE: The palaeontology of the formations forms a large part of the memoir.



PART VII.
ZOOLOGY.

PART VII.

ZOOLOGY.

Includes only special publications and those which have been printed as separates. Publications marked thus (*) are not included in the Finding Lists.

- †463. Contributions to Canadian natural history. (Extracted from the report of the Geological Survey for 1858). Montreal, 1860. 8vo. pp. 40. By W. S. M. D'Urban and R. Bell.
NOTE: A reprint of appendices IV and V.
- †134. On some marine *Invertebrata* from the Queen Charlotte islands. (From the Report of Progress of the Geological Survey of Canada, 1878-79). Montreal, May 1, 1880. 8vo. pp. 16. With 2 illustrations. By J. F. Whiteaves.
NOTE: A reprint of appendix C to part B. Repaged.
135. Notes on *Crustacea* collected by Dr. G. M. Dawson at Vancouver and the Queen Charlotte islands. (From the Report of Progress of the Geological Survey of Canada, 1878-79). [Montreal, 1880.] 8vo. pp. 14. By S. I. Smith.
NOTE: A reprint of appendix D to part B.
722. Catalogue of the marine *Invertebrata* of Eastern Canada. Ottawa, 1901. 8vo. pp. iii, 272 (errata on last page). By J. F. Whiteaves.
NOTE: Title-page erroneously numbered "772".
- †692*. Catalogue of Canadian birds. Part I. Water birds, gallinaceous birds, and pigeons, including the following orders: *Pygopodes*, *Longipennes*, *Tubinares*, *Steganopodes*, *Anseres*, *Herodiones*, *Paludicola*, *Limicola*, *Gallinae*, and *Columbae*. Ottawa, 1900. 8vo. pp. vii, 218. By John Macoun.
- †822*. Catalogue of Canadian birds. Part II. Birds of prey, woodpeckers, flycatchers, crows, jays, and blackbirds, including the following orders: *Raptores*, *Coccyges*, *Pici*, *Macrochires*, and part of the *Passeres*. Ottawa, 1903. 8vo. pp. v, 219-413 (paging continuous with No. 692). By John Macoun.
- †883*. Catalogue of Canadian birds. Part III. Sparrows, swallows, vireos, warblers, wrens, titmice, and thrushes, including the order: *Passeres* after the *Icteridae*. Ottawa, 1904. 8vo. pp. iv, 415-733. With index to complete volume, pp. xxiii. By John Macoun.
- †492. List of land and fresh-water shells from the district of Keewatin, collected by W. McInnes in 1904. Ottawa, 1905. 8vo. pp. 6.
NOTE: A reprint of appendix to report by W. McInnes (pp. 160-164). Repaged.
- †973*. (E) Catalogue of Canadian birds. Published in English 1909, and French 1916,
†1529. (F) Ottawa. 8vo. pp. English viii, 780, French xii, 925. (Revised edition, with additional facts recorded, of Nos. 692, 822, and 883, combined in one volume.) By John Macoun and J. M. Macoun.
1143. Memoir No. 14. New species of shells collected by John Macoun at Barkley sound, Vancouver island, British Columbia. 1911. With 17 illustrations. By W. H. Dall and P. Bartsch.
- †1234*. (E) On the collection of zoological specimens for the Victoria Memorial Museum.
1519. (F) Zoology. Published in English 1912, and French 1915, Ottawa. 12mo. pp., English 56, French 62. (Includes chapter on land and fresh-water shells by B. Walker.) By P. A. Taverner.

- NOTE: Cover-title reads: "Instructions regarding the collection of zoological specimens for the Victoria Memorial Museum. Zoology".
- 1240g. The marine *Algae* of Vancouver island. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 39 (99-137). By F. S. Collins.
NOTE: A reprint of article XIII.
- 1240h. New species of mollusks from the Atlantic and Pacific coasts of Canada. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 8 (139-146). With 6 illustrations. By W. H. Dall and P. Bartsch.
NOTE: A reprint of article XIV.
- 1240i. Hydroids from Vancouver island and Nova Scotia. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 40 (147-186). With 10 illustrations. By C. McL. Fraser.
NOTE: A reprint of articles XV and XVI.
1482. Museum Bulletin No. 7. A new species of *Dendragapus* (*Dendragapus obscurus flemingi*), from southern Yukon Territory. 1914. By P. A. Taverner.
1513. Museum Bulletin No. 13. The double-crested cormorant (*Phalacrocorax auritus*) and its relation to the salmon industries on the gulf of St. Lawrence. 1915. With 2 illustrations. By P. A. Taverner.
1557. Biological division. Zoology. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1914). [Ottawa, July 8, 1915.] 8vo. pp. 15.
NOTE: A reprint of pp. 152-167. Repaged.
1575. Zoology. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1915). [Ottawa, May 18, 1916.] 8vo. pp. 16.
NOTE: A reprint of pp. 249-264. Repaged.

PART VIII.
BOTANY.

1874

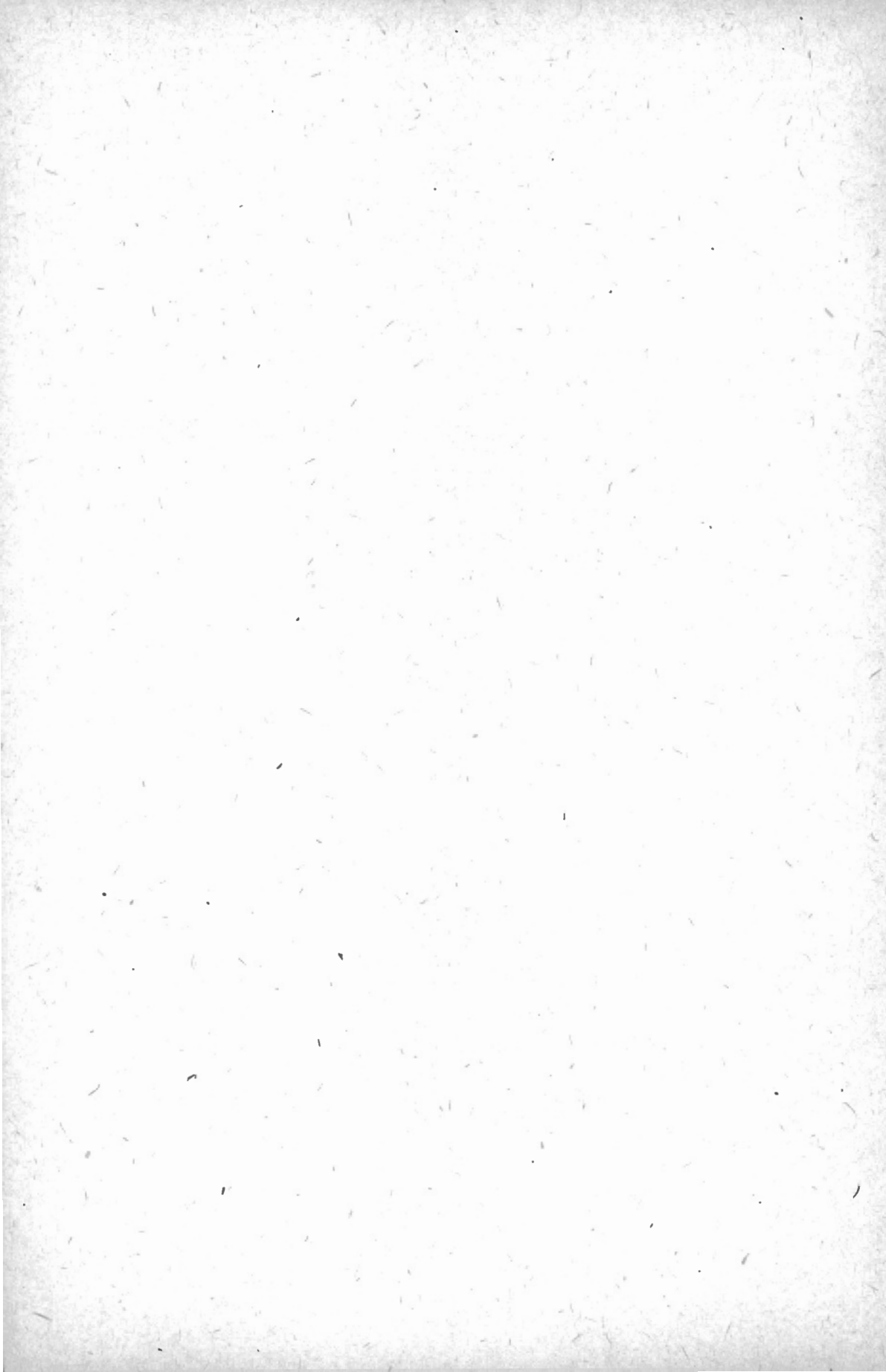
1875

PART VIII.

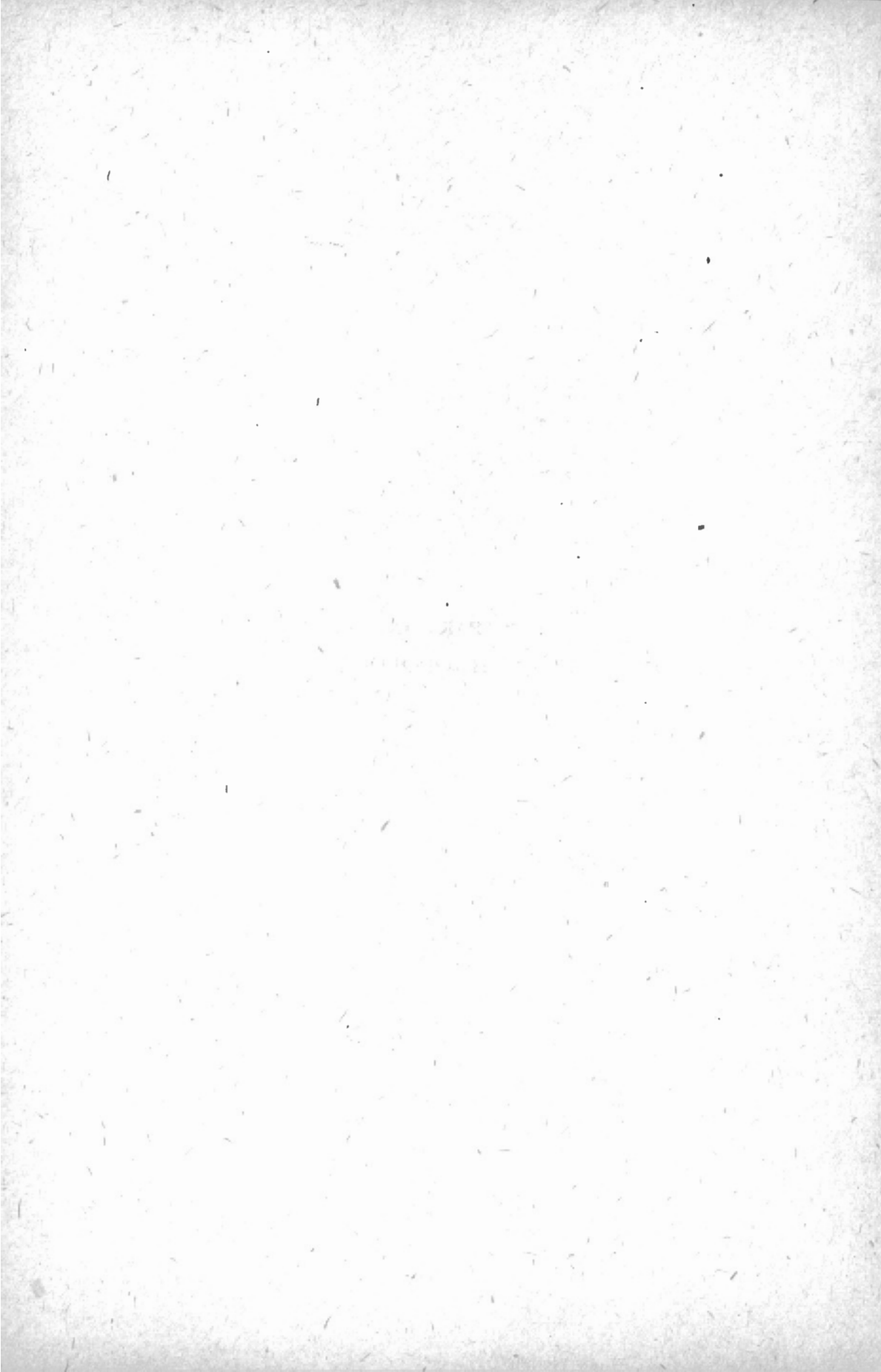
BOTANY.

Includes only special publications and those which have been printed as separates. Publications marked thus (*) are not included in the Finding Lists.

- †463. Contributions to Canadian natural history. (Extracted from the report of the Geological Survey for 1858). Montreal, 1860. 8vo. pp. 40. By W. S. M. D'Urban and R. Bell.
NOTE : A reprint of appendices IV and V.
77. List of plants of the Manitoulin islands, lake Huron. (Appendix to the Reports of the Geological Survey of the Dominion of Canada, 1867-69). Montreal, 1870. 8vo. pp. 23. By J. Bell.
NOTE : A reprint of appendix to Report of Progress, 1866-69. Pages renumbered.
- †447.* Catalogue of Canadian plants. Part I. *Polypetalæ*. Montreal, 1883. 8vo. pp. 192. By John Macoun.
- †448.* Catalogue of Canadian plants. Part II. *Gamopetalæ*. Montreal, 1885 (dated 1884). 8vo. pp. iv, 193-394 (paging continuous with No. 447). By John Macoun.
- †449.* Catalogue of Canadian plants. Part III. *Apetalæ*. Montreal, 1886. 8vo. pp. iv, 395-623 (paging continuous with No. 448). With additions and corrections to parts I and II, and index to volume I (which includes Nos. 447, 448, and 449). By John Macoun.
- †450.* Catalogue of Canadian plants. Part IV. *Endogens.*, Montreal, 1888. 8vo. pp. iv, 248. By John Macoun.
- †451.* Catalogue of Canadian plants. Part V. *Acrogens*. Montreal, 1890. 8vo. pp. iv, 249-428 (paging continuous with No. 450). With additions and corrections to parts I-IV, and index to volume II (which includes Nos. 450 and 451). By John Macoun.
- 452.* Catalogue of Canadian plants. Part VI. *Musci*. Montreal, 1892. 8vo. pp. vii, 295. With an index. By John Macoun.
- 798.* Catalogue of Canadian plants. Part VII. *Lichenes* and *Hepaticæ*. Montreal, 1902. 8vo. pp. v, 337. With addendum to part VI, and an index. By John Macoun.
NOTE : Through error this part bears no number on cover.
453. List of Canadian *Hepaticæ*. Montreal, 1890. 8vo. pp. iii, 31. With 154 illustrations, and an index. By W. H. Pearson.
- †486. List of the plants known to occur on the coast and in the interior of the Labrador peninsula. [Ottawa, 1896.] 8vo. pp. 14. Compiled by J. M. Macoun.
NOTE : A reprint of appendix VI to part L, Annual Report, volume VIII, 1895.
1366. Memoir No. 54. Annotated list of flowering plants and ferns of Point Pelee, Ont., and neighbouring districts. 1914. With 1 illustration. By C. K. Dodge.
- 1663.* Museum Bulletin No. 26. The flora of Canada. 1917. With 1 illustration. By J. M. Macoun and M. O. Malte.



PART IX.
ANTHROPOLOGY.



PART IX.

ANTHROPOLOGY.

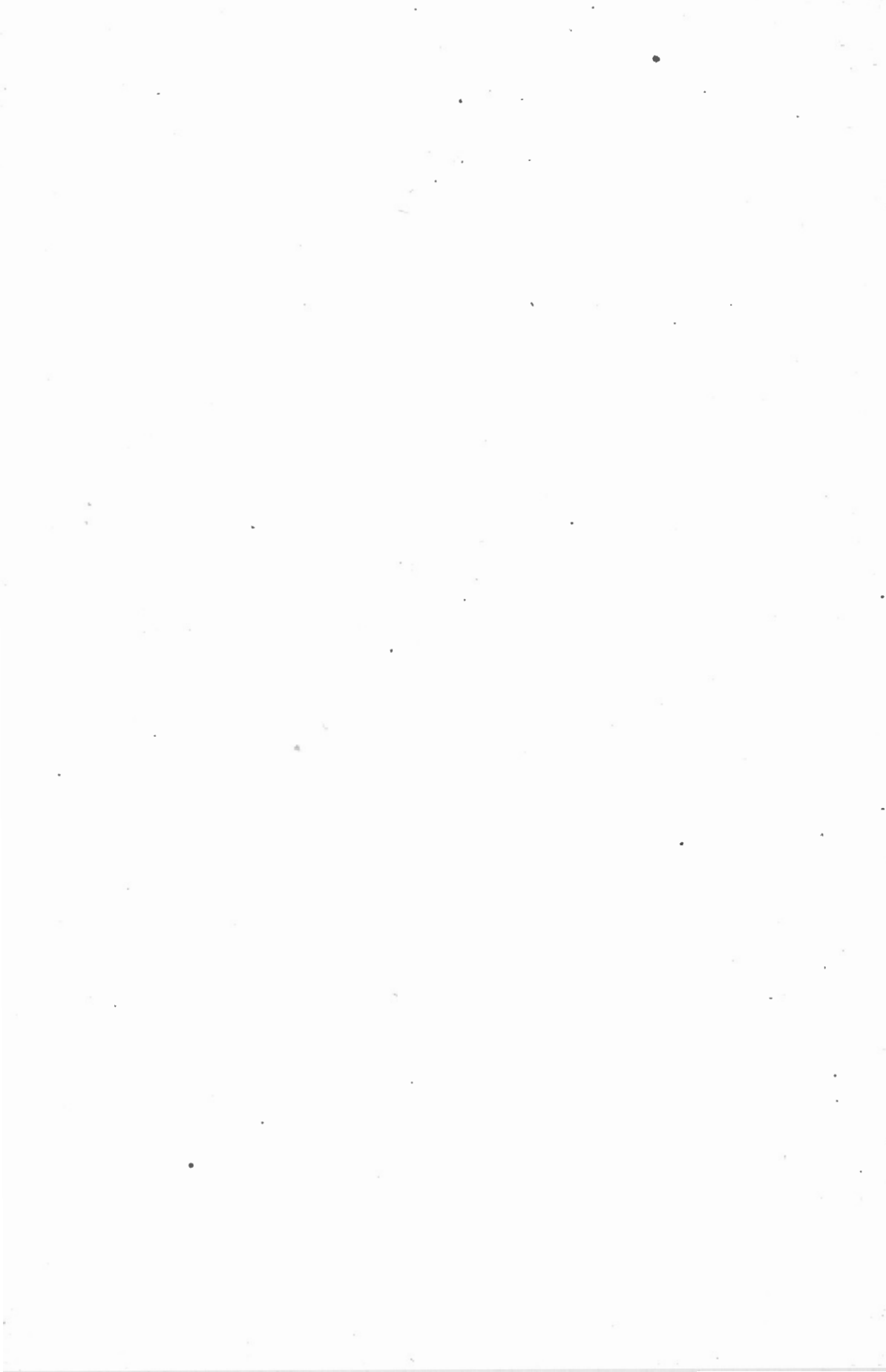
Includes only special publications and those which have been printed as separates. Publications marked thus (*) are not included in the Finding Lists.

454. Comparative vocabularies of the Indian tribes of British Columbia. With a map illustrating distribution. Montreal, 1884. 8vo. pp. 131. With map No. 455 and appendices I, II, and III. 'By W. F. Tolmie and G. M. Dawson.
Appendix I. Comparative table of some words in Tshimsian, Haida, Thlinkit, and Tinne.
Appendix II. Comparative table of a few of the words in the foregoing vocabularies. (Folding sheet.)
Appendix III. Comparisons of a few words in various Indian languages of North America.
Accompanying Map:
455. Map showing the distribution of the Indian tribes of British Columbia. 1883. Scale: 25 miles to 1 inch.
- †261. Notes on the Indian tribes of the Yukon district and adjacent northern portion of British Columbia. (Reprinted from the Annual Report of Geological Survey of Canada, 1887). [Montreal, 1888.] 8vo. pp. 23. By G. M. Dawson.
NOTE: A reprint of appendix II to part B, Annual Report, 1887-88.
- 1218b. Summary report of the anthropological division for the calendar years 1910 and 1911. Ethnology: E. Sapir and others. Archaeology: H. I. Smith. (Being a reprint from the Annual Summary Report of the Geological Survey, for the calendar years 1910 and 1911). Ottawa, 1912. 8vo. pp. 18.
- 1240j. The archaeology of Blandford township, Oxford county, Ontario. (From Bulletin No. 1, Victoria Memorial Museum, October 23, 1913). [Ottawa, December 28, 1913.] 8vo. pp. 14 (187-200). With 1 illustration. By W. J. Wintemberg.
NOTE: A reprint of article XVII.
- †1326. (E) Memoir No. 48. Some myths and tales of the Ojibwa of southeastern Ontario. English 1914, French 1916. Collected by P. Radin.
- †1327. (F)
1290. (E) Museum of the Geological Survey, Canada. Archaeology. The archaeological collection from the southern interior of British Columbia. Published in English 1914 (dated 1913), and French 1916. Ottawa. 8vo. pp., English iii, 40, French iii, 35. With 92 illustrations. By H. I. Smith.
1291. (F)
- †1305c. Reports from anthropological division. (From the Summary Report of the Geological Survey, Canada, for the calendar year 1912). [Ottawa, 1914.] 8vo. pp. 59 (448-506).
- 1342d. Some aspects of puberty fasting among the Ojibwa. 'Reprint from Museum Bulletin No. 2, separate pagination' (hand-stamped on cover). Ottawa, June 22, 1914. 8vo. pp. 10. By P. Radin.
NOTE: A reprint of article IV. Form of cover uniform with Bulletin No. 2, except date, and the addition of "Anthropological Series, No. 2".
- 1317.* (E) Memoir No. 45. The "Inviting-in" feast of the Alaskan Eskimo. English
1318. (F) 1914 (dated 1913), French 1916. With 17 illustrations. By E. W. Hawkes.
- †1333. Memoir No. 49. Malecite tales. 1914. By W. H. Mechling.

1476. Museum Bulletin No. 6. Prehistoric and present commerce among the Arctic Coast Eskimo. 1915. With map No. 1302. By V. Stefánsson.
1310. (E) Memoir No. 42. The double-curve motive in northeastern Algonkian art.
1596. (F) English 1914, French 1915. With 70 illustrations. By F. G. Speck.
- 1492.* Museum Bulletin No. 9. The glenoid fossa in the skull of the Eskimo. 1915. With 16 illustrations. By F. H. S. Knowles.
- †1501.* Museum Bulletin No. 10. The social organization of the Winnebago Indians. An interpretation. 1915. With 2 illustrations. By P. Radin.
- 1535.* Museum Bulletin No. 16. Literary aspects of North American mythology. 1915. By P. Radin.
- 1322.* Memoir No. 46. Classification of Iroquoian radicals with subjective pronominal prefixes. 1915. By C. M. Barbeau.
1437. Memoir No. 62. Abnormal types of speech in Nootka. 1915. By E. Sapir.
1439. Memoir No. 63. Noun reduplication in Comox, a Salish language of Vancouver island. 1915. By E. Sapir.
- 1499.* (E) Memoir No. 75. Decorative art of Indian tribes of Connecticut. English 1915, French 1917. With 112 illustrations. By F. G. Speck.
1500. (F)
- †1469. Memoir No. 70. Family hunting territories and social life of various Algonkian bands of the Ottawa valley. 1915. With map No. 1479. By F. G. Speck.
- †1470. Memoir No. 71. Myths and folk-lore of the Timiskaming Algonquin and Timagami Ojibwa. 1915. With map No. 1479 and 2 other illustrations. By F. G. Speck.
1565. Museum Bulletin No. 19. A sketch of the social organization of the Nass River Indians. 1915. With 1 illustration. By E. Sapir.
1554. Memoir No. 80. Huron and Wyandot mythology, with an appendix containing earlier published records. 1915. By C. M. Barbeau.
- 1612.* Memoir No. 86. Iroquois foods and food preparation. 1916. With 150 illustrations. By F. W. Waugh.
- 1635.* Memoir No. 90. Time perspective in aboriginal American culture, a study in method. 1916. By E. Sapir.
1637. Memoir No. 91. The Labrador Eskimo. With map No. 1560 and 185 other illustrations. By E. W. Hawkes.

PART X.
MISCELLANEOUS.

Special reports, etc., on geology, economic minerals, and explorations, not listed elsewhere, but included in the Finding Lists.



PART X.

MISCELLANEOUS.

Special reports, etc., on geology, economic minerals; and explorations, not listed elsewhere (with two exceptions), but included in the Finding Lists.

- †392. (E) Report on the north shore of lake Huron. (Contains a general account of the geology of a portion of the north shore of lake Huron, and a detailed description of the Bruce mines.) Published in English and French, Montreal, 1849. 8vo. pp., English 51, French 53. With plans Nos. 393 and 394, and appendix. By W. E. Logan.

NOTE: Also printed in appendix No. 1 (G) to vol. VIII, Journal of the Legislative Assembly of the Province of Canada, 1849, in English and French.

Appendix. Contents of lodes [Bruce mines]. (Tables of contents of eastern and western lodes, "resulting from the lengths, widths, and produces, ascertained by measurement and experiment". Also table of copper ores, etc., sampled at the Bruce mines in July, 1848.)

Accompanying Plans:

- †393. A plan of the whole of the location of the Bruce mines, the property of the Montreal Mining Company, containing 6400 acres. [1849.] Scale: 40 chains to 1 inch.
- †394. Plan of part of the Bruce mines, showing the mineral veins. [1849.] Scale: 2 chains to 1 inch.

685. Descriptive note on the Sydney coal field, Cape Breton, Nova Scotia, to accompany a revised edition of the geological map of the coal field, being sheets 133, 134, 135 N.S. Summarized from the reports of the Geological Survey of Canada, with the addition of later observations. Ottawa, 1900. 8vo. pp. 16. With folding sheet (table showing equivalency of principal coal seams). Accompanied by envelope containing maps Nos. 652, 653, and 654. By H. Fletcher.

NOTE: For preliminary reports see Nos. 582 or 583, 613 or 614, 632 or 644.

Accompanying Maps:

652. Map-sheet No. 133. (Cape Dauphin sheet). Province of Nova Scotia. (Victoria and Cape Breton counties.) 1899. Scale: 1 mile to 1 inch.
653. Map-sheet No. 134. (Sydney sheet). Province of Nova Scotia. (Victoria and Cape Breton counties.) 1899. Scale: 1 mile to 1 inch.
654. Map-sheet No. 135. (Glance Bay sheet). Province of Nova Scotia. (Cape Breton county.) 1898. Scale: 1 mile to 1 inch.

797. Report on the Cambrian rocks of Cape Breton. Ottawa, 1903. 8vo. pp. 246. With 128 illustrations. By G. F. Matthew.¹

Part I. Structural geology.

Part II. Palæontology.

NOTE: Several species of Cambrian fossils from New Brunswick are also figured. For preliminary reports see Nos. 690 or 691, 716 or 717 (summary by Whiteaves), 761 or 762.

- †391. Remarks on the mining region of lake Superior; addressed to the Committee of the Honourable the Executive Council, and Report on mining locations claimed on the Canadian shores of the lake, addressed to the Commissioner of Crown Lands, Montreal, 1847. 8vo. pp. 31. By W. E. Logan.

- †399. Notes on the gold of eastern Canada: being a reprint of portions of various reports of the Geological Survey of Canada from 1848 to 1863. Montreal, 1864. 8vo. pp. 40. With preface by W. E. Logan.

NOTE: See notes under Nos. 5, 7, 8, 9, 10, 11, and 50.

¹On account of Part II this report is also entered on p. 173.

- †400. Petroleum, its geological relations considered with especial reference to its occurrence in Gaspé, being a report addressed to The Hon. Commissioner of Crown Lands. With a geological map of a portion of Gaspé. Quebec. 1865. Small 8vo. pp. 19. With map No. 401. By T. S. Hunt.
NOTE: Part of the edition was issued with blank covers.
Accompanying Map:
- †401. Geological map of a portion of Gaspé. [1865.] Scale: 4 miles to 1 inch.
- †403. Reports on the gold region of the county of Hastings, transmitted by Dr. Hunt to the Hon. Commissioner of Crown Lands, January 29, 1867. Montreal, 1867. 8vo. pp. 11. By T. S. Hunt and A. Michel.
- †404. Report on the gold region of Nova Scotia. Ottawa, 1868. 8vo. pp. 48. With appendices Nos. I and II. By T. S. Hunt.
Appendix No. I. [Table of gold production for the year ending September 30, 1867.]
Appendix No. II. [Extracts from the mining law of Nova Scotia, passed May 10, 1864.]
1368. (E) Prospector's Handbook No. 1. Notes on radium-bearing minerals. Published in English 1914, and French 1915 (dated 1914), Ottawa. Small 8vo. pp., English iii, 26, French iii, 29. By W. Malcolm.
- †905. (E) Report on the Dominion Government Expedition to Hudson bay and the Arctic islands on board the D.G.S. *Neptune*, 1903-1904. Published in English 1906, and French 1913 (dated 1912), Ottawa. 8vo. pp., English xvii, 355, French xv, 345. With map No. 906, 66 illustrations, and appendices Nos. I to VI. By A. P. Low.
- †1124. (F) NOTE: Cover-title reads: "The cruise of the *Neptune*, 1903-04". For preliminary report see No. 899 or 900 (director's report). The report was published by the Department of Marine and Fisheries and copies furnished to the Geological Survey for distribution.
Appendix I. Meteorological observations taken on board Dominion Government steamer *Neptune*. By C. F. King, L. E. Borden, and G. B. Caldwell.
Appendix II. List of birds and eggs identified or collected on the voyage of the *Neptune* to Hudson bay and northward. By A. P. Low, A. Halkett, John Macoun, and C. W. G. Eifrig.
Appendix III. List of plants collected in 1904 during the cruise of the *Neptune* by L. E. Borden. By J. M. Macoun.
Appendix IV.
- †954. Notes on the fossil corals collected by A. P. Low at Beechy island, Southampton island, and cape Chidley, in 1904. Ottawa, 1907. 8vo. pp. 9. With 3 illustrations. By L. M. Lambe.¹
NOTE: The separate (No. 954) contains only the above portion of the appendix.
Preliminary list of organic remains from Beechy island, Lancaster sound, in the district of Franklin. (Determined by H. M. Ami.)
Preliminary lists of the species of organic remains from blocks of limestone from Southampton island. (Determined by H. M. Ami.)
Preliminary list of organic remains from loose blocks of limestone, cape Chidley. (Determined by H. M. Ami.)
Appendix V. List of the principal works and papers consulted in the preparation of the report on the Dominion Expedition to Hudson bay and the Arctic islands. [A. P. Low.]
Appendix VI. Notes on physical condition of Eskimos. By L. E. Borden.
Accompanying Map:
906. Geological map of the northeastern part of the Dominion of Canada, to illustrate the report on the cruise of the D. G. S. *Neptune* to Hudson bay and the Arctic islands by A. P. Low, 1905. Published 1906. Scale: 50 miles to 1 inch.

¹Entered also on p. 174.

PART XI.

GENERAL REPORTS AND MAPS RELATING TO THE
WHOLE OF CANADA, WITH SOME OTHER
PUBLICATIONS, NOT INCLUDED IN
THE FINDING LISTS.

PART XI.

GENERAL REPORTS AND MAPS RELATING TO THE WHOLE OF CANADA, WITH SOME OTHER PUBLICATIONS, NOT INCLUDED IN THE FINDING LISTS.

The list includes publications which from their general character, non-Canadian subject matter, or for other obvious reasons, it is unnecessary or impracticable to include in the Finding Lists. See also parts VII, VIII, and IX for similar publications on zoology, botany, and anthropology.

Certain publications listed here appear also in other parts of the catalogue, e.g. No. 395, which contains a general geological sketch of Upper and Lower Canada, but was written to accompany the collection of economic minerals exhibited at Paris in 1855, and includes a general catalogue of the collection. It is, therefore, listed also in part XII.

REPORTS.

CANADA.

(Restricted to the parts of the present provinces of Ontario and Quebec formerly known as Upper and Lower Canada respectively.)

- †1. Remarks on the mode of proceeding to make a geological survey of the Province. By W. E. Logan.
- †1. Preliminary report, 1842. (Giving "a probable sketch of some leading features in Canadian geology.") By W. E. Logan.
- †1. Report of Progress for the year 1843. (Contains a short account of the general geological structure of the eastern and western portions of the Province of Canada, in relation to that of the United States, with notes on lithographic stone.) By W. E. Logan.
- †7. Appendix. Catalogue of some of the economic minerals and deposits of Canada with their localities. By W. E. Logan. See also Nos. 470 and 471.
- †50. Geological Survey of Canada. Report of Progress from its commencement to 1863. With preface by W. E. Logan.
NOTE: This volume "contains, in a condensed form, the substance of all the previous reports, with much original matter."
Appendix.
I. A tabular view of the rocks of Great Britain and North America; with notes.
II. A catalogue of the Lower Silurian fossils of Canada.
III. Additional figures of Palæozoic fossils, and figures of some from the recent deposits.
- †51. Geology of Canada, 1862. (Advance edition of pp. 1-464 of No. 50.) With preface by W. E. Logan.
- †395. Esquisse géologique du Canada pour servir à l'intelligence de la carte géologique et de la collection des minéraux économiques envoyées à l'Exposition universelle de Paris, 1855. By W. E. Logan and T. S. Hunt.
- †397. Esquisse géologique sur le Canada pour servir à l'intelligence de la carte géologique et à la collection de minéraux économiques envoyés à l'Exposition universelle de Paris, 1855. By W. E. Logan and T. S. Hunt.
- †402. Esquisse géologique du Canada, suivie d'un catalogue descriptif de la collection de cartes et coupes géologiques, livres imprimés, roches, fossiles et minéraux économiques envoyée à l'Exposition universelle de 1867. By T. S. Hunt.

DOMINION OF CANADA.

GENERAL.

- †410. Descriptive sketch of the physical geography and geology of the Dominion of Canada. Montreal, 1884. 8vo. pp. 55. With 1 diagram. To accompany map No. 411. By A. R. C. Selwyn and G. M. Dawson.
1085. (E) A descriptive sketch of the geology and economic minerals of Canada.
- †1086. (F) Introduction by R. W. Brock. By G. A. Young.
- †1146. Notes on Canada. Presented to the members of the Eleventh International Geological Congress, Stockholm, Sweden, with the compliments of the Geological Survey of Canada. Ottawa, 1910. 12mo., pp. 14. [By R. W. Brock.]

MINERALS.

302. 292(T). Annotated list of the minerals occurring in Canada. By G. C. Hoffmann.
- †488. (E) Paris International Exhibition, 1900. Economic minerals of Canada. By G. M. Dawson.
- †489. (F) NOTE: A handbook giving a descriptive sketch of the mineral resources of the Dominion. See also Nos. 1142, 1471, 1472.
1497. Memoir No. 74. A list of Canadian mineral occurrences. By R. A. A. Johnston.

BOTANY. (See also *Botany in Part VIII.*)

1663. Museum Bulletin No. 26. The flora of Canada. By J. M. Macoun and M. O. Malte.

ALTITUDES.

745. Altitudes in the Dominion of Canada, with a relief map of North America. Ottawa, 1901. 8vo. pp. xii, 266, and errata slip. With map No. 677. Accompanied by portfolio containing profiles Nos. 746, 747, 748, 749. By J. White.

NOTE: A second edition, revised and greatly enlarged, has since been published (1915) by the Commission of Conservation.

Accompanying Map and Profiles:

677. Relief map of Canada and the United States. 1900. Scale: 250 miles to 1 inch.
746. Sheet 1. Profile of Canadian Pacific Railway main line, Montreal to Winnipeg. [1901.] Horizontal scale: 30 miles to 1 inch; vertical scale: 1,000 feet to 1 inch.
747. Sheet 2. Profile of Canadian Pacific Railway main line, Winnipeg to Vancouver. [1901.] Horizontal scale: 30 miles to 1 inch; vertical scale: 1,000 feet to 1 inch.
748. Sheet 3. Profile of Canadian Pacific railway, original location of main line via Yellowhead pass, East Selkirk to Kamloops. [1901.] Horizontal scale: 30 miles to 1 inch; vertical scale: 1,000 feet to 1 inch.
749. Sheet 4. Profile of Saint Lawrence river and Great Lakes. [1901.] Horizontal scale: 35 miles to 1 inch; vertical scale: 335 feet to 1 inch.

MINING.

221. 210(K). Observations on mining laws and mining in Canada, with suggestions for the better development of the mineral resources of the Dominion. By E. Coste.

NEWFOUNDLAND.

- †431. Palaeozoic fossils, volume I. By E. Billings.
6. New species of fossils from the Quebec group in the northern part of Newfoundland.
- †432. Palaeozoic fossils, volume II, part I. By E. Billings.
2. On some new species of fossils from the Primordial rocks of Newfoundland.
1545. Memoir No. 78. Wabana iron ore of Newfoundland. By A. O. Hayes.

GREAT BRITAIN.

- †4. Appendix [to report by W. E. Logan]. Statistical tables of copper-mining and copper-smelting in Great Britain from 30th June, 1838, to 30th June, 1846.

- †1107. Joint report on the bituminous or oil-shales of New Brunswick and Nova Scotia, also on the oil-shale industry of Scotland. By R. W. Ells. Part I. Economics. (The portion on "The Scotch oil-shale industry.") Appendix. The technology of the Scottish shale oil industry. By W. A. Hamor.

UNITED STATES.

63. On the rocks and cupriferous beds of Portage lake, Michigan. (Appendix to report by T. Macfarlane.)
542. Juneau-Yakutat [Alaska] section. By L. Martin. (Guide Book No. 10.)

MISCELLANEOUS.

- †11. Report for the year 1855. On the metallurgy of iron; extraction of salts from sea-water; magnesian mortars; purification of plumbago; peat and products derived from it. By T. S. Hunt.
- †108. Sir William Edmond Logan. [An obituary notice with biographical sketch.] By B. J. Harrington.
154. Geological nomenclature and the colouring and notation of geological maps. With index to colours and signs (No. 157). By A. R. C. Selwyn.
- †332. 322(Q). Appendix A. Table of Beaumé's hydrometer, with corresponding specific gravities. [By H. P. Brumell.]
- †332. 322(Q). Appendix C. Bibliography. (Taken from the report on petroleum by S. F. Peckham, vol. X, 10th Census, U.S.A.)
591. 617(J). Appendix I. Literature relating to the anorthosites of Canada. [By F. D. Adams.]
591. 617(J). Appendix II. The smelting of titaniferous iron ores. (From a paper in "The Iron Age" for February 6th and 20th, 1896 (slightly abridged).) By A. J. Rossi.

MAPS.

CANADA.

- †396. Carte géologique du Canada. 1855. Scale: 150 miles to 1 inch.
- †53. Geological map of Canada and the adjacent regions, including parts of other British provinces and of the United States. 1865 (dated 1864). Scale: 125 miles to 1 inch.
- †65. Geological map of Canada and the adjacent regions, including parts of other British provinces and of the United States. 1869 (dated 1866). Scale: 25 miles to 1 inch. In 8 sheets.¹
- †153. Map showing the general northern limits of the principal forest trees of the Dominion of Canada [east of the Rocky mountains]. 1881. [Scale: 80 miles to 1 inch.]
- †411. Map of the Dominion of Canada, geologically coloured, [1884.] Scale: 45 miles to 1 inch.
677. Relief map of Canada and the United States. 1900. Scale: 250 miles to 1 inch.
783. Geological map of the Dominion of Canada. (Western sheet). 1902 (dated 1901). Scale: 50 miles to 1 inch.
810. Map of the Dominion of Canada, showing progress of field operations by the Geological Survey, 1843-1903. Published 1903. Scale: 250 miles to 1 inch.
1042. Minerals. [Map of Dominion of Canada, showing localities of economic minerals.] 3 editions, 1908, 1909, and 1910. Scale: 100 miles to 1 inch.
- †1084. Geology. [Geological map of the Dominion of Canada.] 2 editions, 1909 and 1910. Scale: 100 miles to 1 inch.

¹Additions and corrections have been made on the plates from time to time, and the map in this state may still be obtained from Edward Stanford, Ltd., London, Eng.

- 1083. Western Canada. Geology. 1909. Scale: 100 miles to 1 inch.
NOTE: Specially printed and sent to British Columbia for the meeting of the British Association. Not intended for general distribution. A reprint of the western half of map No. 1084.
- 1277. Geological map of the Dominion of Canada and Newfoundland. (Map 91A.) 1913. Scale: 100 miles to 1 inch.
- 1372. Coal areas of Canada. (Map 125A.) 1914. Scale: about 250 miles to 1 inch.

UNITED STATES.

- 542e. Route map between Prince Rupert [British Columbia], and Frederick sound [Alaska]. Scale: 24 miles to 1 inch.
- 542f. Route map between Frederick sound and Skagway [Alaska]. Scale: 24 miles to 1 inch.
- 542k. Submarine topography of Russell fiord [Alaska], (from soundings in 1910, by The National Geographic Society). Scale: $3\frac{1}{4}$ miles to 1 inch.
- 542m. Hubbard, Variegated, and Turner glaciers [Alaska]. Scale: 1 mile to 1 inch.
- 542n. Map of Muir glacier [Alaska] in 1899 (Gilbert and Gannett); in 1903 (Andrews); and in 1907 (Morse and Klotz). Scale: 6.6 miles to 1 inch.
- 542o. Nunatak glacier [Alaska]. Scale: 0.75 miles to 1 inch.
- 542p. Hidden glacier [Alaska]. Scale: 0.75 miles to 1 inch.

PART XII.

CATALOGUES AND OTHER PUBLICATIONS RELATING TO THE MUSEUM AND THE COLLECTIONS SENT TO VARIOUS EXHIBITIONS; AND CATALOGUES AND INDEXES OF THE PUBLICATIONS OF THE GEOLOGICAL SURVEY.

- A. Catalogues and Other Publications relating to the Museum.**
- B. Catalogues and Other Publications prepared for various International Exhibitions, etc.**
- C. Catalogues of Publications.**
- D. Indexes.**



PART XII.

CATALOGUES AND OTHER PUBLICATIONS RELATING TO
THE MUSEUM AND THE COLLECTIONS SENT TO VARIOUS
EXHIBITIONS; AND CATALOGUES AND INDEXES OF
THE PUBLICATIONS OF THE GEOLOGICAL SURVEY.

A. Catalogues and Other Publications relating to the Museum.

- †412. Catalogue of section one of the museum of the Geological Survey, embracing the systematic collection of minerals and the collections of economic minerals and rocks, and specimens illustrative of structural geology. Ottawa, 1893. 8vo. pp. xii, 256. With folding plan of first floor of Geological museum [Sussex street, Ottawa]. By G. C. Hoffmann.
- †972. Descriptive catalogue of minerals and rocks in the school collections distributed in 1907. Ottawa, 1908 (dated 1907). 8vo. pp. 27. By R. A. A. Johnston and G. A. Young.
Contains:
Part I. Description of minerals. By R. A. A. Johnston.
Part II. Description of rocks. By G. A. Young.
NOTE: Accompanied the collections. Not for general distribution.
- †1234. (E) On the collection of zoological specimens for the Victoria Memorial Museum.
1519. (F) Zoology. Published in English 1912, and French 1915, Ottawa. 12mo. pp., English 56, French 62. (Includes chapter on land and fresh-water shells by B. Walker.) By P. A. Taverner.
NOTE: Cover-title differs, reading: "Instructions regarding the collection of zoological specimens for the Victoria Memorial Museum. Zoology."
1290. (E) Museum of the Geological Survey, Canada. Archæology. The archæological collection from the southern interior of British Columbia. Published in
1291. (F) English 1914 (dated 1913), and French 1916. Ottawa. 8vo. pp., English iii, 40, French iii, 35. With 92 illustrations. By H. I. Smith.
- †1480. (E) Museum of the Geological Survey, Canada. General guide to the collection
†1481. (F) of invertebrate fossils. Published in English 1914, and French 1915, Ottawa. 8vo. pp., English and French 3. With diagrammatic section of earth's crust. By E. M. Kindle.
NOTE: Forms one sheet, folded in three, with printed pages on one side and diagram on the other side. For use in the museum, not for distribution.

B. Catalogues and Other Publications prepared for various
International Exhibitions, etc.

- †470. Catalogue of some of the economic minerals and deposits of Canada, with their localities. Toronto, 20th June, 1850. Folio. pp. 5. By W. E. Logan.
NOTE: A reprint of appendix to Report of Progress, 1849-50. Printed matter only on half width of pages. Issued, according to a note by W. E. Logan at top of first page, to obtain additional information regarding economic minerals and localities, and to promote a collection of native economic specimens for the Grand Industrial Exhibition, London, England, in 1851. Folded as a document, with title on back: "Grand Industrial Exhibition, 1851. Catalogue of economic minerals, &c., of Canada. By W. E. Logan."
- †471. Grand Industrial Exhibition, 1851. Catalogue of some of the economic minerals and deposits of Canada, with their localities: prepared for the

purpose of promoting a collection of native specimens, applicable to useful purposes, to be sent to a Provincial industrial fair, to be held in Montreal the second Monday in October, 1850, and a selection from them to the Grand Industrial Exhibition, in London, in 1851. Toronto [1850]. Folio. pp. 3. By W. E. Logan.

NOTE: Practically the same subject-matter as No. 470, with additional localities, etc. Title across full width of page, and printed matter in double columns, filling the pages. Folded as a document, with title on back identical with that on No. 470.

- †395. *Esquisse géologique du Canada, pour servir à l'intelligence de la carte géologique et de la collection des minéraux économiques envoyées à l'Exposition universelle de Paris, 1855.* Published only in French. Paris, 1855. 12mo. pp. 109. With map No. 396, and appendix: "Catalogue des minéraux économiques du Canada." By W. E. Logan and T. S. Hunt.

NOTE: Reprinted, in octavo form, without the map, in the report of the Canadian Executive Committee for the Paris Exhibition, English and French, in appendix No. 46, volume XIV, 1856, Journal of the Legislative Assembly of the Province of Canada; and in "Canada at the Universal Exhibition of 1855," Toronto, 1856, English and French editions.

Accompanying Map:

Carte géologique du Canada. Scale: 150 miles to 1 inch.

- †397. *Esquisse géologique sur le Canada, pour servir à l'intelligence de la carte géologique et à la collection de minéraux économiques envoyés à l'Exposition universelle de Paris, 1855.* Published only in French. Paris, 1855. 8vo. pp. 31. By W. E. Logan and T. S. Hunt.

NOTE: Subject-matter as in No. 395, but without the introduction, appendix, and map, and not divided into chapters.

- †398. *Descriptive catalogue of a collection of the economic minerals of Canada, and of its crystalline rocks.* Sent to the London International Exhibition for 1862. Montreal [1862]. 8vo. pp. 88.

Contains:

Descriptive catalogue of economic minerals of Canada. By W. E. Logan.

Descriptive catalogue of a collection of the crystalline rocks of Canada. By T. S. Hunt.

NOTE: Contains much information on the geology of the old Provinces of Upper and Lower Canada (parts of Ontario and Quebec).

- †402. *Esquisse géologique du Canada, suivie d'un catalogue descriptif de la collection de cartes et coupes géologiques, livres imprimés, roches, fossiles et minéraux économiques envoyée à l'Exposition universelle de 1867.* Published only in French. Paris, 1867. Small 8vo. pp. 72. By T. S. Hunt.

- †405. *Philadelphia International Exhibition, 1876. Descriptive catalogue of a collection of the economic minerals of Canada, and notes on a stratigraphical collection of rocks.* Montreal, 1876. 8vo. pp. 152. With 2 illustrations.

Contains:

Descriptive catalogue of the Canadian geological exhibits, compiled by the Geological Corps of Canada.

Notes on a stratigraphical collection of Canadian rocks. By A. R. C. Selwyn.

NOTE: The notes contain much geological information on the whole of Canada.

- †406. *Exposition universelle de 1878 à Paris. Catalogue des minéraux, roches et fossiles du Canada; avec notes descriptives et explicatives.* Traduit de l'anglais, par M. Paul de Cazes avec le concours de M. Alexis Delaire. Londres, 1878, small 8vo. pp. 134. By B. J. Harrington.

- †407. *List of exhibits in the Canadian mineralogical section at the Paris Universal Exhibition, 1878.* Paris, 1878. 8vo. pp. 8. Arranged by A. R. C. Selwyn.

- †409. Colonial and Indian Exhibition, London, 1886. Descriptive catalogue of a collection of the economic minerals of Canada. London. 1886. 8vo. pp. 172. With 8 illustrations. By the Geological Corps, A. R. C. Selwyn, Director.
NOTE: Contains much information on mines, minerals, and rocks, some of which is not published elsewhere.
- †413. Catalogue of a stratigraphical collection of Canadian rocks prepared for the World's Columbian Exposition, Chicago, 1893. Ottawa, 1893. 8vo. pp. xx, 130. By W. F. Ferrier.
- †693. (E) Paris International Exhibition, 1900. Descriptive catalogue of a collection of the economic minerals of Canada. Published in English and French (translated by T. C. Denis). [Ottawa, 1900.] 8vo. pp., English xxxii, 217, French xxxii, 234, and errata slip (loose). (Compiled by members of the staff of the Geological Survey.)
†694. (F)
- NOTE: Contains much information on mines, minerals, and rocks, some of which is not published elsewhere.
- †488. (E) Paris International Exhibition, 1900. Economic minerals of Canada. Published in English and French (translated by T. C. Denis). [Ottawa, 1900?.] 12mo. pp., English 54, French 60. With a map of the Dominion of Canada. By G. M. Dawson.
†489. (F)
- NOTE: A handbook giving a descriptive sketch of the mineral resources of the Dominion.
- †1142. Glasgow International Exhibition, 1901. Economic minerals of Canada. Ottawa, 1901. 12mo.
NOTE: This handbook is identical in form with No. 488, but as no copy was available further details cannot be given.
1471. Wolverhampton International Exhibition, 1902. Economic minerals of Canada. Ottawa, 1902. 12mo. pp. 58. With a map of the Dominion of Canada. By the Geological Survey Corps.
NOTE: Contains essentially the same subject-matter as No. 488, revised, enlarged, and re-arranged in part. The statistics of 1900 are substituted for those of 1899.
- †1472. Cork International Exhibition, 1902. Economic minerals of Canada. Ottawa, 1902. 12mo. pp. 58. With a map of the Dominion of Canada. By the Geological Survey Corps.
NOTE: Identical with No. 1471, except the headline of the title-page.

C. Catalogues of Publications.

The following catalogues and supplements have been published in separate form. Other lists will be found in the Reports of Progress, Annual Reports, and Summary Reports of the Geological Survey. The Atlas accompanying the general report, "Geology of Canada, 1863," contains, in appendix I, a list of publications issued up to 1865, and the Report of Progress for 1870-71 another, brought up to 1870.

A special list of publications on economic minerals (to 1903) is included in the Summary Report for 1903.

Detailed lists of maps published during the year and in preparation are given in the Summary Reports from 1885 on. The Summary Reports from 1906 to date have also a special section for publications, other than maps, issued during the year.

Advertisement pages at the back of recent Summary Reports and Memoirs contain lists of publications, other than maps, issued from 1909 to the date of that particular publication.

- †456. List of publications of the Geological Survey of Canada, Montreal, March, 1873. 8vo. pp. 7.
- †457. List of publications of the Geological Survey of Canada, Montreal, May, 1879. 8vo. pp. 22. (Prepared by B. J. Harrington.)
- †458. List of publications of the Geological and Natural History Survey of Canada. (Includes the Act of 1877 respecting the Geological and Natural History Survey of Canada.) Ottawa, March, 1884. 8vo. pp. iv, 28.
- †476. Additional publications issued by the Geological and Natural History Survey of Canada, since the list of 1884 was printed. (Caption-title. No cover.) [Ottawa, 1886?] 8vo. pp. 4.
- †459. List of publications of the Geological and Natural History Survey of Canada. (Includes the Act of 1886, respecting the Geological and Natural History Survey of Canada.) Montreal, July, 1889. 8vo. pp. 36.
- †477. Supplementary list of publications issued by the Geological Survey Department, Ottawa, Canada, since the list of 1889 was printed. (Caption-title. No cover.) [Ottawa, 1891.] 8vo. pp. 4.
- †478. Supplementary list of publications issued by the Geological Survey Department, Ottawa, Canada. (Caption-title. No cover.) [Ottawa, 1893.] 8vo. pp. 6.
NOTE: Expanding No. 477 to date.
- †568. List of publications of the Geological Survey of Canada. (Includes the Act of 1890 respecting the Department of the Geological Survey, and the amending Act of 1892.) Ottawa, 1895. 8vo. pp. 52.
- †487. Supplementary list of publications issued by the Geological Survey of Canada, since the list of 1895 was printed. (Caption-title. No cover.) [Ottawa, 1897.] 8vo. pp. 3.
- †655. List of publications of the Geological Survey of Canada. (Includes the Act of 1890 respecting the Department of the Geological Survey, and the amending Acts of 1892 and 1898.) Ottawa, 1898. 8vo. pp. 56.
NOTE: Title-page is erroneously numbered "65."
- †689. List of publications of the Geological Survey of Canada. (Includes the Act of 1890 respecting the Department of the Geological Survey, and the amending Acts of 1892, 1898, and 1899.) Ottawa, 1900. 8vo. pp. 58.
NOTE: Some copies were distributed with maps Nos. 754 to 757 inserted.
- †811. Supplementary list of publications of the Geological Survey of Canada from 1900 to 1903 (See list from 1843 to 1900). Ottawa, 1903. 8vo. pp. 11. With index maps Nos. 754 to 757 (first issued with Summary Report for 1901).
NOTE: Supplement to No. 689. Title-page is erroneously numbered "801."
- Accompanying Maps:*
- †754. Index map of southern British Columbia. 1901. Scale: 50 miles to 1 inch.
- †755. Index map of northwestern Ontario. 1901. Scale: 50 miles to 1 inch.
- †756. Index map of New Brunswick, Prince Edward Island, and part of Quebec. 1901. Scale: 50 miles to 1 inch.
- †757. Index map of Nova Scotia. 1901. Scale: 25 miles to 1 inch.
- †914. Supplementary list of publications of the Geological Survey of Canada 1904 and 1905 (See lists from 1843 to 1900 and from 1900 to 1903). Ottawa, 1906 (dated 1905). 8vo. pp. 7.
NOTE: Supplement to Nos. 689 and 811.
- †956. Catalogue of publications of the Geological Survey of Canada. (Includes the Act of 1890 respecting the Department of the Geological Survey, the amending Act of 1892, and the further amending Act of 1898.) Ottawa, 1906. 8vo. pp. 129.
- †496. Catalogue of publications. Addenda A: Reports. Addenda A: Maps. (Caption-title. No cover.) [Ottawa, 1908.] 8vo. pp. 3.
NOTE: Supplement to No. 956.

- †498. Catalogue of publications. Addenda A. (Revised January 12, 1909). [Ottawa, 1909.] 8vo. pp. 3.
NOTE: Supplement to No. 956, replacing No. 496.
- †1073. Catalogue of publications of the Geological Survey, Canada. (Revised to January 1, 1909.) (Includes the Act of 1890 respecting the Department of the Geological Survey, as amended in 1899, the amending Acts of 1892 and 1898, and the Act of 1907 to create a Department of Mines.) Ottawa [Oct. 4], 1909. 8vo. pp. 181.
- †1217. Supplementary list of publications of the Geological Survey, Canada. (not listed in Catalogue No. 1073). Ottawa, February 15, 1912 (issued April 3). 8vo. pp. 6.
- †1380. Catalogue des publications en français de la Commission géologique et de la Division des Mines au 1er juillet, 1914. Ottawa, 1914. 8vo. pp. 14.
NOTE: Catalogue bears also the publication number "307" of the Mines Branch. No English edition.
- †1380a. Publications en français, du Ministère des Mines, parues depuis le catalogue de juillet, 1914. (Commission géologique et Division des Mines). [Ottawa, 1915.] 8vo. pp. 4. (Caption-title. No cover.)
- 1380b. Catalogue des publications en français de la Division des Mines et de la Commission géologique. Edition révisée au 1er janvier 1917. Ottawa, 1917. 8vo. pp. 16.
NOTE: Catalogue bears also the publication number "307" of the Mines Branch. No English edition.

D. Indexes.

- †462. Index to the reports of the Geological Survey of Canada. From 1843 to 1852 inclusive. [Montreal, 1854?] pp. 6.
NOTE: Gives contents of the Reports of Progress from 1843 to 1852-53 (Nos. 1 to 10 inclusive), also of Report on the north shore of lake Huron (No. 392). (Caption-title. No cover.)
638. General index to the Reports of Progress, 1863 to 1884. Ottawa, 1900. 8vo. pp. 1, 475, and errata slip. Compiled by D. B. Dowling.
NOTE: Includes the general report "Geology of Canada, 1863". (No. 50.)
1000. General index to reports, 1885-1906. Ottawa, 1908. 8vo. pp. xi, 1014. Compiled by F. J. Nicolas.
NOTE: Includes only the Annual Reports (new series), volumes I to XVI.

PART XIII.
MINERAL PRODUCTION OF CANADA
AND
MINERAL RESOURCES BULLETINS.



PART XIII.

MINERAL PRODUCTION OF CANADA AND MINERAL RESOURCES BULLETINS.

A. Mineral Production of Canada.

These are brief statistical tables, issued in advance of the annual reports, and subject to revision.

- †415. Summary of the mineral production of Canada for 1887. [Ottawa, 1888.] 8vo. pp. 7. By E. Coste.
- †416. Summary of the mineral production of Canada for 1888. [Ottawa, 1889.] 8vo. pp. 7. By E. Coste.
- †417. Summary of the mineral production of Canada for 1889. [Ottawa, 1890.] 8vo. pp. 7. By E. D. Ingall and H. P. Brumell.
- †418. Division of mineral statistics and mines. Summary of the mineral production of Canada for 1890. [Ottawa, 1891.] 8vo. pp. 7. By E. D. Ingall.
- †419. Division of mineral statistics and mines. Summary of the mineral production of Canada for 1891. [Ottawa, 1892.] 8vo. pp. 7. By E. D. Ingall.
- †420. Division of mineral statistics and mines. Summary of the mineral production of Canada for 1886 to 1891. [Ottawa, 1893.] pp. 3, and folding sheet (tabulated statement).
- NOTE: Statements of the annual reports revised and rearranged to conform with method of statement adopted for recent years.
- †421. Division of mineral statistics and mines. Summary of the mineral production of Canada for 1892. [Ottawa, 1893.] 8vo. pp. 5. By E. D. Ingall.
- †422. Division of mineral statistics and mines. Summary of the mineral production of Canada for 1893. [Ottawa, 1894.] 8vo. pp. 7. By E. D. Ingall.
- †555. Mineral statistics and mines. Summary of the mineral production of Canada for 1894. [Ottawa, 1895.] 8vo. pp. 7. By E. D. Ingall.
- †577. Mineral statistics and mines. Summary of the mineral production of Canada for 1895. [Ottawa, 1896.] 8vo. pp. 7. By E. D. Ingall.
- †612. Mineral statistics and mines. Summary of the mineral production of Canada for 1896. [Ottawa, 1897.] 8vo. pp. 7. By E. D. Ingall.
- †623. Section of mineral statistics and mines. Summary of the mineral production of Canada from 1886 to 1896. [Ottawa, 1897.] 8vo. pp. 4, and folding sheet (tabulated statement). By E. D. Ingall.
- NOTE: Statements of the annual reports revised according to the latest information available, forming a comparative statement illustrating the progress of the mineral industries of Canada from 1886 to 1896 inclusive.
- †640. Section of mineral statistics and mines. Summary of the mineral production of Canada for 1897. [Ottawa, 1898.] 8vo. pp. 7. By E. D. Ingall.
- †671. Section of mineral statistics and mines. Summary of the mineral production of Canada for 1898. [Ottawa, 1899.] 8vo. pp. 8. By E. D. Ingall.
- †686. Section of mineral statistics and mines. Summary of the mineral production of Canada for 1899. Ottawa, 1900. 8vo. pp. 7. By E. D. Ingall.
- †719. Section of mines and mineral statistics. Summary of the mineral production of Canada for 1900. Ottawa, 1901. 8vo. pp. 8. By E. D. Ingall.
- †831. Section of mines. Summary of the mineral production of Canada for 1901. Ottawa, 1902. 8vo. pp. 8. By E. D. Ingall.

NOTE: In former catalogues the number "719a" was assigned to this publication.

- †813. Section of mines. Summary of the mineral production of Canada for 1902. Ottawa, 1903. 8vo. pp. 8. By E. D. Ingall.
- †861. Section of mines. Summary of the mineral production of Canada for 1903. Ottawa, 1904. 8vo. pp. 11. By E. D. Ingall.
- †896. Section of mines. Summary of the mineral production of Canada for 1904. Ottawa, 1905. 8vo. pp. 15. By E. D. Ingall.
- †924. Section of mines. Summary of the mineral production of Canada for 1905. Ottawa, 1906. 8vo. pp. 16. By E. D. Ingall.
- NOTE: The table of mineral production was also published in the director's summary, Summary Report, 1905.
- †981. Mines Section. Summary of the mineral production of Canada for 1906. Ottawa, 1907. 8vo. pp. 15. By E. D. Ingall.
- NOTE: Since 1906 these preliminary statements have been issued annually by the Mines Branch of the Department of Mines. No summary of mineral production for 1886 was issued in advance of the annual report for that year, and the entry under No. 414 in former catalogues is an error. The number "414" has now been re-assigned.

B. Mineral Resources Bulletins.

A series giving, in condensed form, information regarding some of the mineral resources of Canada. The following have been issued:

- | | |
|------------------------|----------------------------------|
| †854. Asbestos. | †872. Molybdenum and Tungsten. |
| 953. Barytes. | 880. Peat. |
| 851. Coal. | 881. Phosphate (apatite). |
| 882. Copper. | 913. Pigments, mineral. |
| 877. Graphite. | †984. French edition of No. 913. |
| 857. Infusorial earth. | †818. Platinum. |
| 858. Manganese. | 859. Salt. |
| 869. Mica. | 860. Zinc. |

Published as follows:

- †854. Mineral resources of Canada. Bulletin on asbestos. Ottawa, 1903. 8vo. pp. 28. By R. W. Ells.
953. The barytes deposits of lake Ainslie and North Cheticamp, N.S., with notes on the production, manufacture, and uses of barytes in Canada, Ottawa, 1907. 8vo. pp. 43. By H. S. Poole.
- NOTE: Contains also notes on occurrences of strontianite.
851. Mineral resources of Canada. Coal. Reprint of article in annual report of the Section of Mines for 1902, part S, vol. XV. Ottawa, 1904. 8vo. pp. 64. With 1 diagram. [By T. C. Denis.]
882. Mineral resources of Canada. Bulletin on the ores of copper in the provinces of Nova Scotia, New Brunswick, and Quebec. Ottawa, 1904. 8vo. pp. 58. By R. W. Ells.
877. Mineral resources of Canada. Bulletin on graphite. Ottawa, 1904. 8vo. pp. 30. By R. W. Ells.
857. Mineral resources of Canada. Infusorial earth. Reprint of article in annual report of Section of Mines for 1902, part S, vol. XV. Ottawa, 1904. 8vo. pp. 15. [By T. C. Denis.]
858. Mineral resources of Canada. Manganese. Reprint of article in annual report of Section of Mines for 1902, part S, vol. XV. Ottawa, 1904. 8vo. pp. 27. [By T. C. Denis.]
869. Mineral resources of Canada. Bulletin on mica. Ottawa, 1904. 8vo. pp. 32. By R. W. Ells.
- †872. Mineral resources of Canada. Bulletin on molybdenum and tungsten. Ottawa, 1904. 8vo. pp. 16. By R. A. A. Johnston, with notes [on molybdenite] by C. W. Willimott.

880. Mineral resources of Canada. Bulletin on peat. Ottawa, 1904. 8vo. pp. 40. By R. Chalmers.
881. Mineral resources of Canada. Bulletin on apatite (phosphate of lime). Ottawa, 1904. 8vo. pp. 32. By R. W. Ellis.
913. (E) The mineral pigments of Canada. Published in English 1906, and French
 †984. (F) 1908 (dated 1907), Ottawa. 8vo. pp., English 39, French 40. By C. W. Willimott.
 NOTE : Title-page (English edition) erroneously bears the number "909".
- †818. Section of Mines. Mineral resources of Canada. Bulletin No. 1. Platinum. [Reprint, with additions, of article in annual report of Section of Mines for 1901, part S, vol. XIV.] Ottawa, 1903. 8vo. pp. 26. [By T. C. Denis.]
859. Mineral resources of Canada. Salt. Reprint of article in annual report of the Section of Mines for 1902, part S, vol. XV. Ottawa, 1904. 8vo. pp. 35. [By T. C. Denis.]
860. Mineral resources of Canada. Zinc. Reprint of article in annual report of Section of Mines for 1902, part S, vol. XV. Ottawa, 1904. 8vo. pp. 13. [By E. D. Ingall.]



PART XIV.
NOVA SCOTIA SERIAL GEOLOGICAL MAP-SHEETS
AND
PLANS AND SECTIONS OF GOLD DISTRICTS.

PART XIV.

NOVA SCOTIA SERIAL GEOLOGICAL MAP-SHEETS
AND
PLANS AND SECTIONS OF GOLD DISTRICTS.

A. Geological Map-sheets.

(Scale: 1 mile to 1 inch.)

The list gives map-sheets which have been published to date. Date of publication follows names of sheets not listed elsewhere. The index map for these sheets is map No. 927 (see end of list) which also shows positions of special maps and the large-scale plans of the gold-mining districts. Sheets Nos. 1 to 24 do not have names of the sheets printed on them. Nos. 25 to 38 have the names printed on backs of folded copies issued in portfolio accompanying part P, Annual Report, 1886. In references, numbers in brackets are the publication numbers of the Geological Survey. References relating to the gold-bearing rocks have been furnished, for the most part, by E. R. Faribault.

SERIAL NUMBER.	NAME.	REFERENCES AND NOTES.	PUBLICATION NUMBER.
1.	Cape North.....	(167H) Rep. Prog., 1882-84.....	184
2.	Aspy Bay.....	(167H) Rep. Prog., 1882-84; (899 or 900) Sum. Rep., 1904, pp. 297-298.	185
3.	Pleasant Bay.....	(167H) Rep. Prog., 1882-84.....	186
4.	Ingonish.....	(167H) Rep. Prog., 1882-84; (899 or 900) Sum. Rep., 1904, pp. 297-298.	187
5.	Headwaters of Cheticamp.. River.	(167H) Rep. Prog., 1882-84.....	188
6.	North Cheticamp.....	(167H) Rep. Prog., 1882-84.....	189
7.	North Shore.....	(167H) Rep. Prog., 1882-84.....	190
8.	Headwaters of Margaree River.	(167H) Rep. Prog., 1882-84.....	191
9.	South Cheticamp.....	(167H) Rep. Prog., 1882-84; (673 or 674) Sum. Rep., 1898, p. 148; (865 or 866) Sum. Rep., 1903, p. 172.	192
10.	Englishtown.....	(167H) Rep. Prog., 1882-84.....	193
11.	Margaree.....	(167H) Rep. Prog., 1882-84; (1021) Sum. Rep., Fletcher, 1907, p. 9.	194
12.	Baddeck.....	(167H) Rep. Prog., 1882-84.....	195
13.	Middle River.....	(167H) Rep. Prog., 1882-84.....	196
14.	Broad Cove.....	(167H) Rep. Prog., 1882-84.....	197
15.	Whycocomagh.....	(167H) Rep. Prog., 1882-84; (673 or 674) Sum. Rep., 1898, pp. 147-148; (1021) Sum. Rep., Fletcher, 1907, p. 13.	198
16.	Port Hood.....	(167H) Rep. Prog., 1882-84; (865 or 866) Sum. Rep., 1903, pp. 171-172.	199

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17.	Loch Lomond.....	(147F) Rep. Prog., 1879-80; (673 or 674) Sum. Rep., 1898, p. 148.	200
18.	River Denys.....	(147F) Rep. Prog., 1879-80; (552) Sum. Rep., 1894, p. 94, or (553) p. 92.	201
19.	Judique.....	(147F) Rep. Prog., 1879-80; (816) Sum. Rep., 1902, p. 390, or (817) p. 392.	202
20.	L'Ardoise.....	(147F) Rep. Prog., 1879-80.....	203
21.	Saint Peter.....	(147F) Rep. Prog., 1879-80; (816) Sum. Rep., 1902, pp. 389-390, or (817) pp. 391-392.	204
22.	Strait of Canso.....	(147F) Rep. Prog., 1879-80; (552) Sum. Rep., 1894, p. 93, or (553) p. 91; (816) Sum. Rep., 1902, p. 390, or (817) p. 392.	205
23.	Arichat.....	(147F) Rep. Prog., 1879-80.....	206
24.	Guysborough Harbour.....	(147F) Rep. Prog., 1879-80; (552) Sum. Rep., 1894, p. 93, or (553) p. 91.	207
25.	Guysborough Town.....	(243) Ann. Rep., 1886, part P.....	379
26.	Whitehaven.....	(243) Ann. Rep., 1886, part P; (1173) Mem. 20, p. 269.	380
27.	Isaac Harbour.....	(243) Ann. Rep., 1886, part P; (632 or 644) Sum. Rep., 1897, pp. 104-107; (816) Sum. Rep., 1902, pp. 405-410, 424-426; or (817) pp. 407-412, 426-428; (865 or 866) Sum. Rep., 1903, pp. 177-178; (1173) Mem. 20, pp. 154-161, 245-250, etc. NOTE: Title on back of folded map and name of harbour on map itself reads "Isaac's".	381
28.	Gegogan.....	(243) Ann. Rep., 1886, part P; (1173) Mem. 20, p. 267, etc.	382
29.	Sherbrooke.....	(243) Ann. Rep., 1886, part P; (632 or 644) Sum. Rep., 1897, pp. 104-107, 109-110; (816) Sum. Rep., 1902, pp. 405-410, 413-416, 421-426, or (817) pp. 407-412, 415-418, 422-428; (865 or 866) Sum. Rep., 1903, pp. 177-180; (1173) Mem. 20, pp. 224-236, 245-250, 260-266, etc.	383
30.	Country Harbour.....	(243) Ann. Rep., 1886, part P; (632 or 644) Sum. Rep., 1897, pp. 107-108; (816) Sum. Rep., 1902, pp. 410-412, or (817) pp. 412-414; (865 or 866) Sum. Rep., 1903, pp. 178-179; (1173) Mem. 20, pp. 133-134, 145-147, 269, etc.	384
31.	Roman Valley.....	(243) Ann. Rep., 1886, part P.....	385
32.	Pomquet Harbour.....	(243) Ann. Rep., 1886, part P.....	386
33.	Cape George.....	(243) Ann. Rep., 1886, part P; (552) Sum. Rep., 1894, p. 94, or (535) p. 92; (1021) Sum. Rep., Fletcher, 1907, p. 10.	387
34.	Antigonish.....	(243) Ann. Rep., 1886, part P; (552) Sum. Rep., 1894, p. 93, or (553) p. 91; (1021) Sum. Rep., Fletcher, 1907, pp. 10-12.	388

SERIAL NUMBER.	NAME.	REFERENCES AND NOTES.	PUBLICATION NUMBER.
35.	Lochaber.....	(243) Ann. Rep., 1886, part P.....	389
36.	West River St. Mary.....	(209) Sum. Rep., 1885, pp. 20-21, or (211) pp. 62-64; (243) Ann. Rep., 1886, part P; (632 or 644) Sum. Rep., 1897, p. 108; (816) Sum. Rep., 1902, pp. 410-412, or (817) pp. 412-414; (1173) Mem. 20, pp. 133-134, 283, etc. NOTE : Title on back of folded map and name of river on map itself reads: " St. Marys ".	390
37.	Liscomb River.....	(232) Sum. Rep., 1886, p. 31, or (234) pp. 44-45; (243) Ann. Rep., 1886, part P; (632 or 644) Sum. Rep., 1897, pp. 109-110; (816) Sum. Rep., 1902, pp. 421-423, or (817) pp. 423-425; (865 or 866) Sum. Rep., 1903, pp. 179-180; (1173) Mem. 20, pp. 224-236, etc.	550
38.	Moser River.....	(232) Sum. Rep., 1886, p. 31, or (234) pp. 44-45; (243) Ann. Rep., 1886, part P; (716 or 717) Sum. Rep., 1900, p. 167; (816) Sum. Rep., 1902, pp. 416-419, or (817) pp. 418-421; (865 or 866) Sum. Rep., 1903, pp. 180-181; (1173) Mem. 20, pp. 139-141, 151-153, 181, 187, 220-224, 268, 269, etc. NOTE : Title on back of folded map and name of river on map itself reads: " Moser's ".	551
39.	Tangier.....	(243) Ann. Rep., 1886, part P; (257) Sum. Rep., 1888, pp. 29-30, or (259) pp. 99-100; (320) Sum. Rep., 1890, p. 42, or (322) p. 62A; (552) Sum. Rep., 1894, pp. 96-97, or (553) pp. 94-95; (673 or 674) Sum. Rep., 1898, pp. 157-159; (1173) Mem. 20, pp. 239-244, etc.	565
40.	Sheet Harbour. 1897.....	(257) Sum. Rep., 1888, pp. 29-30, or (259) pp. 99-100; (552) Sum. Rep., 1894, pp. 95-97, or (553) pp. 93-95; (632 or 644) Sum. Rep., 1897, pp. 110-112; (690 or 691) Sum. Rep., 1899, pp. 183-187; (816) Sum. Rep., 1902, pp. 423-424, or (817) pp. 425-426; (1173) Mem. 20, pp. 65, 163-164, 176, 220-224, 269, etc.	592
41.	Fifteen-mile Stream. 1897...	(552) Sum. Rep., 1894, pp. 96-97, or (553) pp. 94-95; (632 or 644) Sum. Rep., 1897, pp. 110-111; (1173) Mem. 20, pp. 141-145, 176, 267-269, etc.	607
42.	Trafalgar.	(331) Ann. Rep., 1890-91, part P; (1173) Mem. 20, p. 268, etc.	593
43.	Stellarton.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, p. 94, or (553) p. 92; (1021) Sum. Rep., Fletcher, 1907, pp. 9-10.	598

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44.	New Glasgow.....	(331) Ann. Rep. 1890-91, part P; (816) Sum. Rep., 1902, pp. 390-391, or (817) pp. 392-393; (865 or 866) Sum. Rep., 1903, p. 161; (899 or 900) Sum. Rep., 1904, p. 297; (947) Sum. Rep. 1905, p. 122; (959) Sum. Rep., 1906, pp. 145-146; (1021) Sum. Rep., Fletcher, 1907, pp. 8-9.	600
45.	Toney River.....	(331) Ann. Rep., 1890-91, part P.....	608
46.	Pictou.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, pp. 94-95, or (553) pp. 92-93; (959) Sum. Rep., 1906, pp. 145-146.	609
47.	Westville.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, p. 93, or (553) p. 91; (816) Sum. Rep., 1902, p. 391, or (817) p. 393.	610
48.	Eastville.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, p. 93, or (553) p. 91.	633
49.	Upper Musquodoboit. 1899..	(291) Sum. Rep., 1889, pp. 30-31, or (293) p. 45; (552) Sum. Rep., 1894, p. 97, or (553) p. 95; (632 or 634) Sum. Rep., 1897, pp. 112-113; (816) Sum. Rep., 1902, pp. 419-420, or (817) pp. 421-422; (1120) Sum. Rep., 1909, p. 233; (1113) Mem. 16, pp. 73-78; (1173) Mem. 20, pp. 119, 124-129, 267, 294, 300-301, etc.	634
50.	Moose River. 1898.....	(257) Sum. Rep., 1888, p. 29, or (259) pp. 99-100; (291) Sum. Rep., 1889, pp. 30-31, or (293) p. 45; (552) Sum. Rep., 1894, p. 97, or (553) p. 95; (865 or 866) Sum. Rep., 1903, p. 185; (1072) Sum. Rep., 1908, pp. 155-158; (1120) Sum. Rep., 1909, pp. 228-234; (1173) Mem. 20, pp. 124-129, 147, 187-196, 268, 285-291, etc.	624
51 (and 52).	Ship Harbour. 1897.....	(257) Sum. Rep., 1888, pp. 29, or (259) pp. 99-100; (320) Sum. Rep., 1890, p. 42, or (322) p. 62A; (552) Sum. Rep., 1894, pp. 96-97, or (553) pp. 94-95; (899 or 900) Sum. Rep., 1904, pp. 329-330; (1173) Mem. 20, p. 132, etc. NOTE: No publication number on map.	611
53.	Lawrencetown. 1907 (dated 1906).	(320) Sum. Rep., 1890, p. 42, or (322) p. 62A; (321) Sum. Rep., 1891, p. 37, or (323) p. 56; (582 or 583) Sum. Rep., 1895, pp. 111-114; (673 or 674) Sum. Rep., 1898, pp. 154-155; (947) Sum. Rep., 1905, pp. 123-124; (1173) Mem. 20, pp. 136-137, 168-170, 267, etc.	700
54.	Musquodoboit Harbour. 1907.	(320) Sum. Rep., 1890, p. 42, or (322) p. 62A; (321) Sum. Rep., 1891, p. 37, or (323) p. 56; (582 or 583) Sum. Rep., 1895, pp. 111-114; (673 or 674) Sum. Rep., 1898, pp. 155-156; (947) Sum. Rep., 1905, pp. 123-124; (1173) Mem. 20, pp. 165-168, 267, 269, 283, etc.	807

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55.	Gay River. 1907.....	(291) Sum. Rep., 1889, pp. 30-31, or (293) p. 45; (321) Sum. Rep., 1891, pp. 37-39, or (323) pp. 55-59; (552) Sum. Rep., 1894, pp. 95-97, or (553) pp. 93-95; (582 or 583) Sum. Rep., 1895, pp. 111-114; (673 or 674) Sum. Rep., 1898, p. 150; (947) Sum. Rep., 1905, pp. 123-124; (1113) Mem. 16, pp. 73-83; (1173) Mem. 20, pp. 268, 270, 284, 300-301, etc.	908
56.	Shubenacadie.....	(291) Sum. Rep., 1889, pp. 30-31, or (293) p. 45; (331) Ann. Rep., 1890-91, part P; (321) Sum. Rep., 1891, p. 39, or (323) pp. 58-59; (552) Sum. Rep., 1894, pp. 96-97, or (553) pp. 94-95; (582 or 583) Sum. Rep., 1895, pp. 111-114; (1113) Mem. 16, pp. 73-74, 83-87; (1173) Mem. 20, pp. 236-237, 274-276, etc.	635
57.	Truro.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, p. 93, or (553) p. 91; (816) Sum. Rep., 1902, p. 396, or (817) p. 398.	636
58.	Earlton.....	(331) Ann. Rep., 1890-91, part P; (552) Sum. Rep., 1894, p. 93, or (553) p. 91.	637
59.	Tatamagouche, 1906 (dated 1905).	References given on the sheet.....	793
60.	Malagash. 1906 (dated 1905).	References given on the sheet.....	794
61.	Pugwash. 1906 (dated 1905).	References given on the sheet; see also (959) Sum. Rep., 1906, pp. 143-144.	795
62.	Wentworth. 1906 (dated 1905).	References given on the sheet.....	796
63.	Londonderry. 1906 (dated 1905).	References given on the sheet, see also (899 or 900) Sum. Rep., 1904, pp. 300-301; (1021) Sum. Rep., Fletcher, 1907, pp. 3-4. NOTE: Reference on map to Ells' report should read: "Rep. Prog., 1885".	836
64.	Noel. 1906 (dated 1905)...	References given on the sheet.....	837
65.	Kennetcook. 1906 (dated 1905).	References given on the sheet; see also for West Gore antimony (352) Sum. Rep., 1892, p. 40, or (355) pp. 58-59; (353) Sum. Rep., 1893, pp. 40-41, or (356) pp. 60-62; (959) Sum. Rep., 1906, pp. 149-150; (1173) Mem. 20, pp. 295-299, 303, etc.	878
66.	Elmsdale. 1908.....	(321) Sum. Rep., 1891, p. 38, or (323) p. 57; (352) Sum. Rep., 1892, pp. 37-40, or (355) pp. 54-59; (582 or 583) Sum. Rep., 1895, pp. 111-114; (673 or 674) Sum. Rep., 1898, p. 150; (690 or 691) Sum. Rep., 1899, pp. 169-179; (716 or 717) Sum. Rep., 1900, p. 167; (865 or 866) Sum. Rep., 1903, pp. 181-183; (947) Sum. Rep., 1905, p. 124; (959) Sum. Rep., 1906, pp. 149-150;	1005

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		(1305) Sum. Rep., 1912, pp. 379-382; (1113) Mem. 16, pp. 67-70; (1173) Mem. 20, pp. 138-139, 141, 197-210, 213-220, 268, 272, 285, 291, 294, etc.; (531) Guide Book 1, part I, pp. 153-205.	
67.	Waverly. 1909.....	(321) Sum. Rep., 1891, pp. 37-38, or (323) pp. 56-58; (352) Sum. Rep., 1892, pp. 37-40, or (355) pp. 54-59; (353) Sum. Rep., 1893, p. 39, or (356) p. 59; (582 or 583) Sum. Rep., 1895, p. 113; (613 or 614) Sum. Rep., 1896, pp. 98-104; (673 or 674) Sum. Rep., 1898, pp. 150-154; (690 or 691) Sum. Rep., 1899, pp. 179-180; (716 or 717) Sum. Rep., 1900, p. 167; (865 or 866) Sum. Rep., 1903, p. 185; (947) Sum. Rep., 1905, pp. 123-124; (959) Sum. Rep., 1906, pp. 150-152; (1120) Sum. Rep., 1909, p. 230; (1173) Mem. 20, pp. 182-186, 237-239, 250-257, 267-269, 291, 303, etc.	1025
68.	City of Halifax. 1909 (dated 1908).	(321) Sum. Rep., 1891, p. 37, or (323) p. 56; (352) Sum. Rep., 1892, p. 37, or (355) p. 55; (353) Sum. Rep., 1893, pp. 38-40, or (356) pp. 57-59; (582 or 583) Sum. Rep., 1895, pp. 112-113; (613 or 614) Sum. Rep., 1896, pp. 98-104; (673 or 674) Sum. Rep., 1898, pp. 152-154, 159; (959) Sum. Rep., 1906, pp. 147-152; (1173) Mem. 20, pp. 136-137, 182-186, 267-268, 270-271, 299-300, 302, 303, etc. NOTE: Map No. 1019a is the uncoloured edition of map No. 1019.	1019 1019a
69.	Prospect. 1907.....	(353) Sum. Rep., 1893, pp. 38-40, or (356) pp. 57-59; (613 or 614) Sum. Rep., 1896, pp. 99-100; (959) Sum. Rep., 1906, pp. 147-149.	985
70.	Aspotogan. 1908.....	(353) Sum. Rep., 1893, pp. 38-40, or (356) pp. 57-59; (761) Sum. Rep., 1901, pp. 215-216, or (762) pp. 217-218; (816) Sum. Rep., 1902, pp. 402-403, or (817) pp. 404-405; (959) Sum. Rep., 1906, pp. 147-149; (1173) Mem. 20, pp. 76, 269, etc.	1043
71.	St. Margaret Bay. 1908....	(353) Sum. Rep., 1893, pp. 38-40, or (356) pp. 57-59; (695) Ann. Rep., 1898, part R, p. 19; (761) Sum. Rep., 1901, pp. 215-216, or (762) pp. 217-218; (959) Sum. Rep., 1906, pp. 147-149; (1173) Mem. 20, pp. 76, 90, 302, etc.	1036
72.	Ponhook Lake. 1916.....	(352) Sum. Rep., 1892, pp. 37-39, or (355) pp. 54-57; (353) Sum. Rep., 1893, p. 39, or (356) pp. 58-59; (959) Sum. Rep., 1906, pp. 147-149; (1173) Mem. 20, p. 268. NOTE: An advance edition, uncoloured, was published in 1909, and reprinted in 1913.	1539

SERIAL NUMBER.	NAME.	REFERENCES AND NOTES.	PUBLI- CATION NUMBER.
73.	Windsor. 1909.....	(352) Sum. Rep., 1892, p. 39, or (355) pp. 57-58; (353) Sum. Rep., 1893, pp. 40-43, or (356) pp. 60-65; (552) Sum. Rep., 1894, pp. 91-93, or (553) pp. 89-91; (673 or 674) Sum. Rep., 1898, p. 147; (690 or 691) Sum. Rep., 1899, pp. 175-179, 181-182; (816) Sum. Rep., 1902, p. 391, or (817) p. 393; (865 or 866) Sum. Rep., 1903, p. 171; (947) Sum. Rep., 1905, pp. 123-124; (959) Sum. Rep., 1906, pp. 147-150; (1173) Mem. 20, pp. 118-119, 130-131, 180-181, 197-204, 272-273, etc.; (531) Guide Book 1, part I, pp. 135-153.	1037
74.	Walton. 1906 (dated 1905).	References given on the sheet; see also (865 or 866) Sum. Rep., 1903, p. 171.	879
75.	Five Islands and Tennycapc. 1906 (dated 1905).	References given on the sheet.....	838
76.	Economy River. 1906 (dated 1905).	References given on the sheet; see also (673 or 674) Sum. Rep., 1898, pp. 146-147.	839
82.	Southampton. 1906 (dated 1905).	References given on the sheet; see also (673 or 674) Sum. Rep., 1898, pp. 146-147; (947) Sum. Rep., 1905, p. 122; (959) Sum. Rep., 1906, p. 142; (1021) Sum. Rep., Fletcher, 1907, p. 7.	840
83.	Parrsboro. 1906 (dated 1905)	References given on the sheet; see also (673 or 674) Sum. Rep., 1898, pp. 146-147.	841
84.	Kingsport. 1911.....	References given on the sheet; see also (353) Sum. Rep., 1893, pp. 40-42, or (356) pp. 60-63; (552) Sum. Rep., 1894, pp. 91-92, or (553) pp. 89-90.	1133
85.	Gaspereau.....	Completed map not yet published.	
88.	New Ross.....	Completed map not yet published.	
97.	Lakeview.....	Completed map not yet published.	
98.	Berwick.....	Completed map not yet published. NOTE: Advance photographic copies, uncoloured, of the original manuscript maps (sheets Nos. 85, 88, 97, and 98) were issued in 1911.	
99.	Hall Harbour. 1910.....	References given on the sheet; see also (816) Sum. Rep., 1902, p. 397, or (817) p. 399.	1134
100 (and 101).	Apple River. 1904.....	References given on the sheet; see also (865 or 866) Sum. Rep., 1903, pp. 162, 170-171; (899 or 900) Sum. Rep., 1904, p. 296.	826
133.	Cape Dauphin.....	Report No. 685.....	652
134.	Sydney.....	Report No. 685; (899 or 900) Sum. Rep., 1904, p. 300; (947) Sum. Rep., 1905, p. 121.	653
135.	Glace Bay.....	(673 or 674) Sum. Rep., 1898, p. 148; Report No. 685; (816) Sum. Rep., 1902, pp. 392-393, or (817) pp. 394-395; (899 or 900) Sum. Rep., 1904, pp. 299-300; (947) Sum. Rep., 1905, p. 121; (1021) Sum. Rep., Fletcher, 1907, pp. 5-8.	654

INDEX MAP.

927. Map of the province of Nova Scotia. [Showing the gold-bearing series and granites, and progress of mapping to 1906.] 1907 (dated 1906). Scale: 12 miles to 1 inch.
NOTE: Issued "to illustrate report by E. R. Faribault on the gold fields of Nova Scotia," but when his work was published, in Memoir No. 20, it was superseded by the more complete geological (and mineral) map of Nova Scotia, No. 1185.

B. Plans and Sections of Gold Districts.

The list gives all plans and sections published to date. References given were, for the most part, furnished by E. R. Faribault.

PUBLICATION
NUMBER.

832. Isaacs Harbour [also called Goldboro, or part of Stormont district], Guysborough county. 1904. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 106-107; (816) Sum. Rep., 1902, pp. 405-410, or (817) pp. 407-412.
656. Upper Seal Harbour [also called Upper Isaacs Harbour, Richardson, or part of Stormont district], Guysborough county. 1899. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 104-106; (816) Sum. Rep., 1902, pp. 424-426, or (817) pp. 426-428; (865 or 866) Sum. Rep., 1903, pp. 177-178, with section No. 850; (1173) Mem. 20, pp. 245-250, with plans and sections of the Dolliver Mountain and Richardson mines.
850. Dolliver Mountain mine, Upper Isaacs Harbour, Guysborough county. Transverse section through vertical shaft and cross-cut, showing structure of new saddle veins developed, and proving their recurrence in depth. 1904. Scale: 25 feet to 1 inch.
References: (865 or 866) Sum. Rep., 1903, p. 177.
649. Forest Hill [part of the Stormont district], Guysborough county. 1898. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, p. 107; (1173) Mem. 20, pp. 145-147.
843. Cochran Hill [including the Crows Nest mine], Guysborough county. 1904. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, p. 108; (816) Sum. Rep., 1902, pp. 410-412, or (817) pp. 412-414; (1173) Mem. 20, pp. 133-134.
867. Wine Harbour, Guysborough county. 1905. Scale: 250 feet to 1 inch.
References: (816) Sum. Rep., 1902, pp. 413-416, or (817) pp. 415-418; (1173) Mem. 20, pp. 260-266, with plan and sections of workings on the pay-shoot of the Plough lead.
645. Goldenville [also called Sherbrooke], Guysborough county. 1898. Scale: 250 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 109-110; (816) Sum. Rep., 1902, pp. 421-423, or (817) pp. 423-425, with section No. 806; (865 or 866) Sum. Rep., 1903, pp. 179-180; (1173) Mem. 20, pp. 224-236, with 2 sections of Bluenose mine and a reissue of plan No. 645.
806. Transverse vertical section through main shaft and cross-cuts, Bluenose gold mine, Goldenville. 1903. Scale: about 68 feet to 1 inch.
References: (816) Sum. Rep., 1902, pp. 421-423, or (817) pp. 423-425. (1173) Mem. 20, p. 226, etc.
945. Harrigan Cove, Halifax county. 1906. Scale: 400 feet to 1 inch.
References: (816) Sum. Rep., 1902, pp. 416-419, or (817) pp. 418-421; (865 or 866) Sum. Rep., 1903, p. 181; (1173) Mem. 20, pp. 151-153.

PUBLICATION
NUMBER.

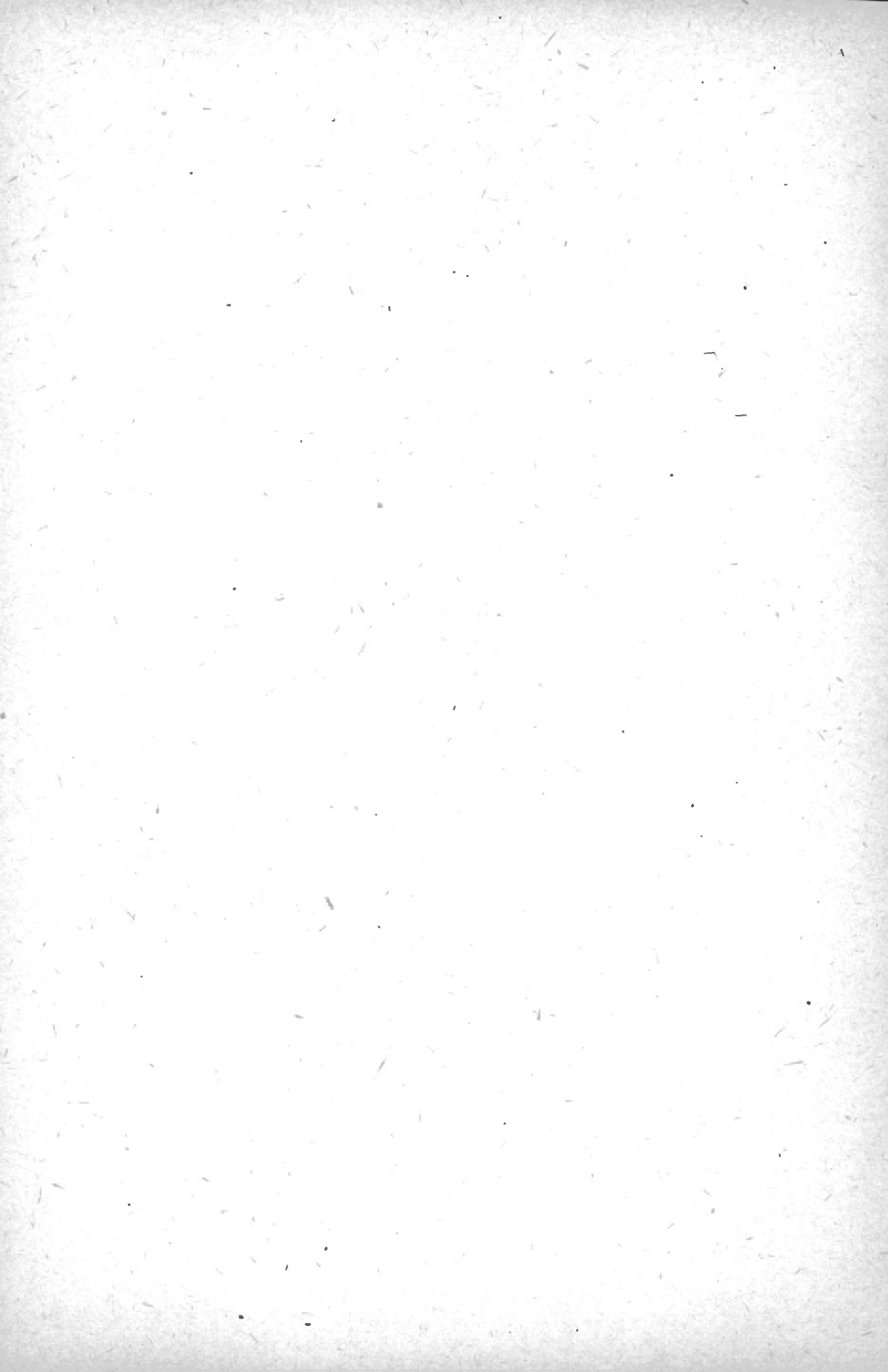
647. Salmon River [or Dufferin Mines], Halifax county. 1898. Scale: 250 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, p. 110; (690 or 691) Sum. Rep., 1899, pp. 183-187; (816) Sum. Rep., 1902, pp. 423-424, or (817) pp. 425-426; (1173) Mem. 20., pp. 220-224.
650. Fifteen-mile Stream, Halifax county. 1899. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 110-111; (1173) Mem. 20, pp. 141-145.
622. Killag, Halifax county. 1898. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 111-112; (1173) Mem. 20, pp. 163-164.
- †643. Caribou, Halifax county. 1898. Scale: 500 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 112-113; (1120) Sum. Rep., 1909, p. 233; (1173) Mem. 20, pp. 124-129, with plan and section of Lake Lode mine.
646. Moose River, Halifax county. 1898. Scale: 250 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, pp. 113-114; (1072) Sum. Rep., 1908, pp. 155-158; (1120) Sum. Rep., 1909, pp. 228-234; (1173) Mem. 20, pp. 189-196.
648. Mooseland, Halifax county. 1899. Scale: 250 feet to 1 inch.
References: (632 or 644) Sum. Rep., 1897, p. 114; (1173) Mem. 20, pp. 187-189.
773. Tangier, Halifax county. 1903 (dated 1902). Scale: 250 feet to 1 inch.
References: (673 or 674) Sum. Rep., 1898, pp. 157-159; (1173) Mem. 20, pp. 239-244, with section across anticlinal fold between Copper and Rush lakes.
765. Lake Catcha [or Chezzetcook], Halifax county. 1902. Scale: 250 feet to 1 inch.
References: (582 or 583) Sum. Rep., 1895, p. 112; (673 or 674) Sum. Rep., 1898, pp. 155-156; (1173) Mem. 20, pp. 165-168.
666. Lawrencetown, Halifax county. 1900. Scale: 500 feet to 1 inch.
References: (321) Sum. Rep., 1891, pp. 37-38, or (323) pp. 56-57; (582 or 583) Sum. Rep., 1895, pp. 112, 114; (673 or 674) Sum. Rep. 1898, pp. 154-155; (1173) Mem. 20, pp. 168-170.
740. Montague, Halifax county. 1902. Scale: 250 feet to 1 inch.
References: (321) Sum. Rep., 1891, p. 37, or (323) p. 56; (582 or 583) Sum. Rep., 1895, pp. 113-114; (613 or 614) Sum. Rep., 1896, p. 101; (673 or 674) Sum. Rep., 1898, pp. 152-154; (1173) Mem. 20, pp. 182-186, with section of principal workings of the Annand lead.
721. Waverley, Halifax county. 1901. Scale: 250 feet to 1 inch.
References: (321) Sum. Rep., 1891, pp. 37-38 or (323) pp. 56-57; (582 or 583) Sum. Rep., 1895, pp. 113-114; (613 or 614) Sum. Rep., 1896, pp. 99-101; (673 or 674) Sum. Rep., 1898, pp. 150-152; (716 or 717) Sum. Rep., 1900, p. 167; (1173) Mem. 20, pp. 250-257, with section across anticlinal fold on Tudor mine, plan and section of Lakeview mine, and plan of workings on Barrel Quartz lead, Waverley Gold Mining Company.
- †642. Oldham, Halifax county. 1898 (2nd edition issued 1912 and 3rd edition 1913). Scale: 500 feet to 1 inch.
References: (321) Sum. Rep., 1891, pp. 37-38 or (323) pp. 56-57; (582 or 583) Sum. Rep., 1895, p. 113; (865 or 866) Sum. Rep., 1903, pp. 181-182; (1305) Sum. Rep., 1912, pp. 379-382; (1173) Mem. 20, pp. 204-210, with 2nd edition of plan No. 642; (531) Guide Book 1, part I, pp. 192-205, with 3rd edition (black and white) of plan No. 642.
701. Renfrew, Hants county, 1900. Scale: 500 feet to 1 inch.
References: (582 or 583) Sum. Rep., 1895, p. 113; (690 or 691) Sum. Rep., 1899, pp. 169-175; (716 or 717) Sum. Rep., 1900, p. 167; (1173) Mem. 20, pp. 213-220.

NOTE: Through error, title on plan reads: "Renewer."

PUBLICATION
NUMBER.

768. South Uniacke, Hants and Halifax counties. 1902. Scale: 250 feet to 1 inch.
References: (582 or 583) Sum. Rep., 1895, p. 113; (613 or 614) Sum. Rep., 1896, pp. 102-103; (690 or 691) Sum. Rep., 1899, pp. 179-180; (1173) Mem. 20, pp. 237-239, with section of workings on Hard lead, Golden Lode mine.
709. Mount Uniacke, Hants county. 1901. Scale: 250 feet to 1 inch.
References: (582 or 583) Sum. Rep., 1895, p. 113; (690 or 691) Sum. Rep., 1899, pp. 175-179; (865 or 866) Sum. Rep., 1903, pp. 182-183, with section No. 849; (1173) Mem. 20, pp. 197-204, with same sections as in No. 849, on a reduced scale.
849. Transverse section, West Lake mine, Mount Uniacke gold district, Hants county. 1904. Scale: 25 feet to 1 inch.
References: (865 or 866) Sum. Rep., 1903, pp. 182-183; (1173) Mem. 20, pp. 197-204.
844. Gold River, Lunenburg county. 1904. Scale: 250 feet to 1 inch.
References: (761) Sum. Rep., 1901, pp. 217-221, or (762) pp. 219-223; (1173) Mem. 20, pp. 147-151.
937. Leipsigate [or Micmac mines], Lunenburg county. 1907 (dated 1906). Scale: 500 feet to 1 inch.
References: (865 or 866) Sum. Rep., 1903, pp. 183-184; (899 or 900) Sum. Rep., 1904, pp. 321-329; (1173) Mem. 20, pp. 170-176, with section of workings of the Micmac mine.
1339. Pleasant River Barrens, Lunenburg county. (Map 118A.) 1915 (dated 1914). Scale: 500 feet to 1 inch.
References: (1359) Sum. Rep., 1913, pp. 259-263, with plan No. 1339; (1173) Mem. 20, pp. 212-213.
1012. Brookfield, Queens county. 1908. Scale: 250 feet to 1 inch.
References: (1173) Mem. 20, pp. 121-123, with second issue of greater portion of plan No. 1012, sheet divided into 2 portions, forming Figs. 1 and 24 of the memoir.
NOTE: Sheet includes: "Longitudinal section in the plane of the Libby 'fissure' vein, showing workings on well-defined ore-shoot which occurs at the intersection of the 'fissure' vein with three interbedded quartz leads," and "Vertical transverse section A. B. through main shaft and across Libby 'fissure' vein and the three interbedded leads."
995. Malaga [or Molega], Queens county. 1907. Scale: 250 feet to 1 inch.
References: (1120) Sum. Rep., 1909, p. 233; (1218) Sum. Rep., 1911, p. 388; (1173) Mem. 20, pp. 177-180.

PART XV.
LIST OF MAPS OF THE "A" SERIES.



PART XV.

LIST OF MAPS OF THE "A" SERIES.

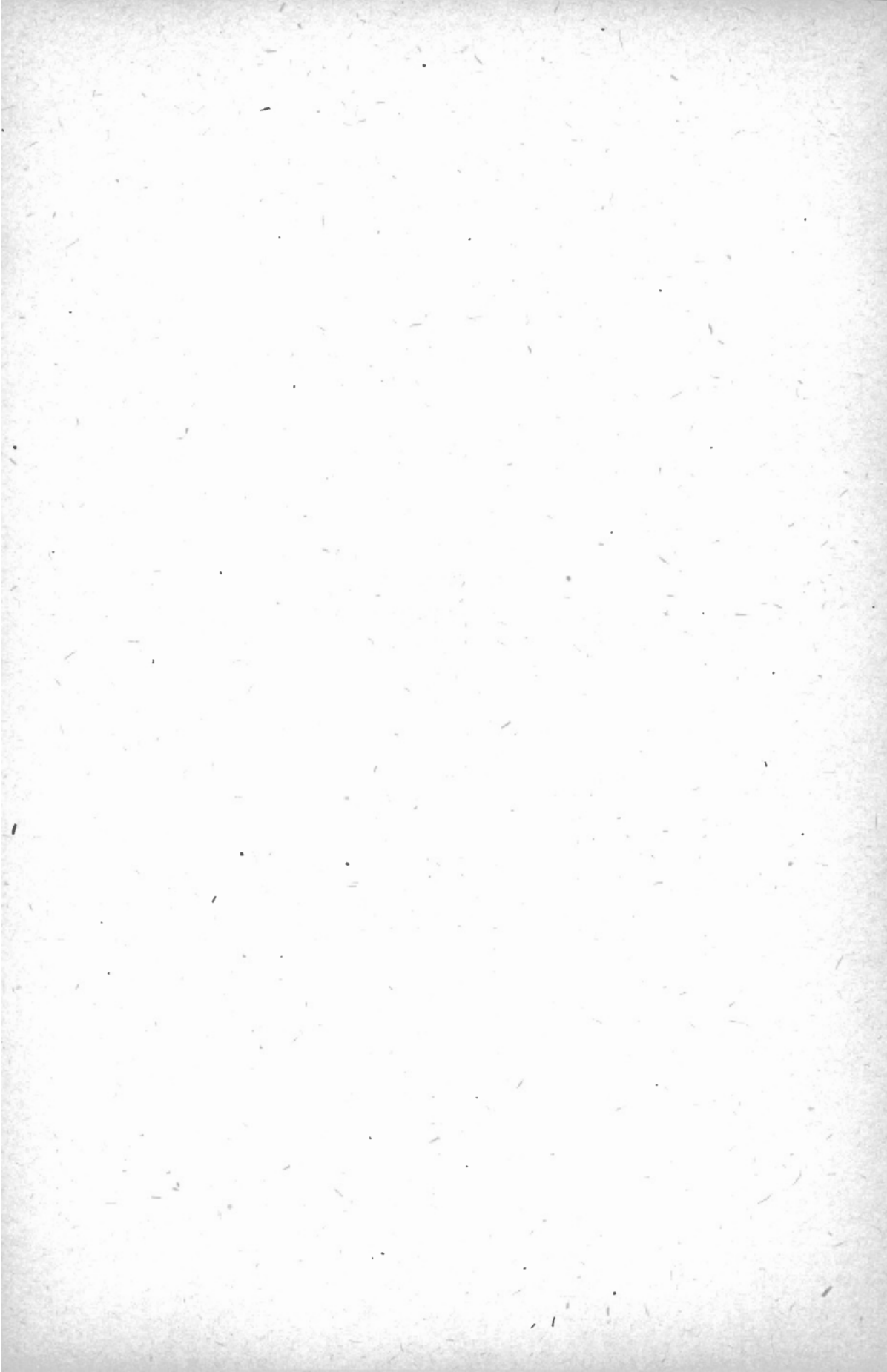
In the report of the director for 1909 (Summary Report, No. 1120) it is stated that, beginning with the year 1910, maps are to receive their own consecutive numbers, as Map No. 1A, etc. This system of numbering has been discontinued, maps now bearing, as in the past, only the publication number of the Geological Survey, which also appeared on the maps of the "A" series. For reference purposes the following list is given of those maps which bear the double numbers.

1A 1095	32A 1178	63A 1238	94A 1283
2A 1096	33A 1179	64A 1244	95A 1284
3A 1106	34A 1180	65A 1241	96A 1285
4A 1105	35A 1181	66A 1245	97A 1286
5A 1117	36A 1182	67A 1246	98A 1299
6A 1118	37A 1183	68A 1239	99A 1298
7A 1132	38A 1184	69A 1247	100A 1300
8A 1090	39A 1185	70A 1251	101A 1301
9A 1089	40A 1210	71A 1252	102A 1302
10A 1103	41A 1191	72A 1253	103A 1295
11A 1104	42A 1192	73A 1254	104A 1303
12A 1112	43A 1193	74A 1260	105A 1287
13A 1133	44A 1194	75A 1261	106A 1304
14A 1134	45A 1195	76A 1262	107A 1307
15A 1135	46A 1196	77A 1263	108A 1308
16A 1136	47A 1197	78A 1264	109A 1313
17A 1123	48A 1198	79A 1265	110A 1314
18A 1066	49A 1199	80A 1266	111A 1319
19A 1147	50A 1200	81A 1267	112A 1320
20A 1148	51A 1201	82A 1268	113A 1332
21A 1149	52A 1202	83A 1269	114A 1335
22A 1153	53A 1208	84A 1270	115A 1336
23A 1154	54A 1219	85A 1271	116A 1337
24A 1155	55A 1221	86A 1272	117A 1338
25A 1156	56A 1222	87A 1273	118A 1339
26A 1162	57A 1223	88A 1274	119A 1350
27A 1163	58A 1226	89A 1275	120A 1351
28A 1164	59A 1230	90A 1276	121A 1353
29A 1167	60A 1231	91A 1277	122A 1354
30A 1168	61A 1232	92A 1278	123A 1355
31A 1177	62A 1237	93A 1282	124A 1356

125A	1372	141A	1444	157A	1567	173A	1590
126A	1373	142A	1445	158A	1568	174A	1593
127A	1374	143A	1446	159A	1569	175A	1594
128A	1375	144A	1479	160A	1570	176A	1597
129A	1376	145A	1495	161A	1578	177A	1598
130A	1377	146A	1496	162A	1579	178A	1618
131A	1378	147A	1528	163A	1580	179A	1621
132A	1379	148A	1531	164A	1581	180A	1624
133A	1381	149A	1532	165A	1582	181A	1628
134A	1390	150A	1539	166A	1583	182A	1629
135A	1391	151A	1540	167A	1654	183A	1630
136A	1392	152A	1541	168A	1653	184A	1634
137A	1396	153A	1544	169A	1586	185A	1641
138A	1397	154A	1552	170A	1587	186A	1644
139A	1412	155A	1553	171A	1588	187A	1645
140A	1443	156A	1560	172A	1589		

NOTE: For completeness all maps included in the series are given in the above list, but maps 68A, 115A, 135A, 145A, 151A, 152A, 154A, 155A, 161A-165A, 168A, 174A, 183A, 185A are not listed elsewhere as they were published since this Catalogue was completed or have not yet been issued.

PART XVI.
SUMMARY REPORTS PUBLISHED AS SEPARATES.



PART XVI.

SUMMARY REPORTS PUBLISHED AS SEPARATES.

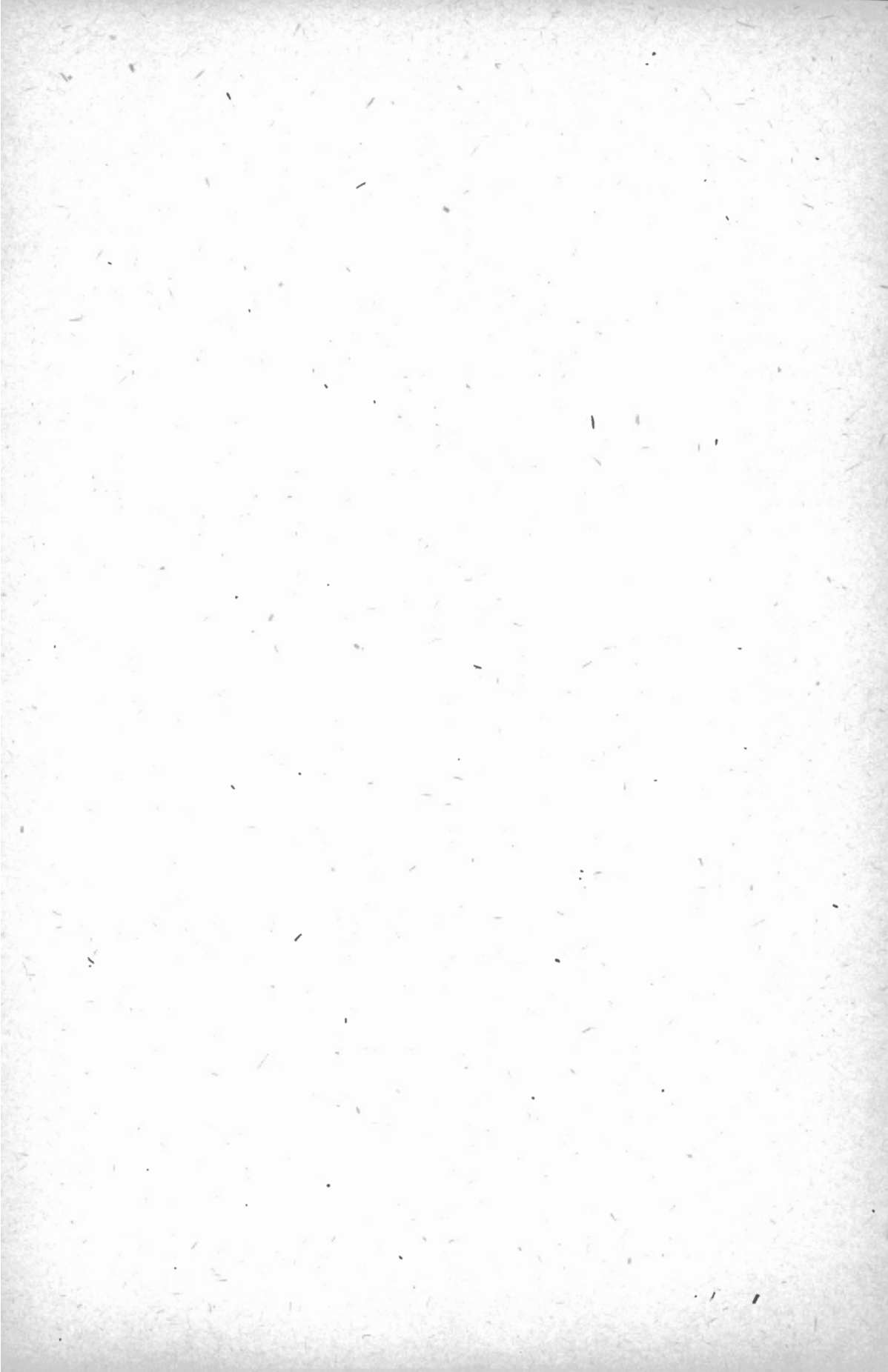
A list showing the various forms in which these reports have been issued¹.

†66.		Summary Report for three years, 1st May, 1866, to 1st May, 1869.
†67. (E)	“	the five months ending 1st May, 1870.
†117. (F)		
211.	“	1884 and 1885 (Part A, Ann. Rep., vol. I, 1885).
†209.	“	1885 (Part III, Ann. Rept. Dept. Int., 1885).
†232.	“	1886 (Part III, Ann. Rept. Dept. Int., 1886).
234.	“	1886 (Part A, Ann. Rep., vol. II, 1886).
†256.	“	1887 (Part III, Ann. Rep. Dep. Int., 1887).
†257.	“	1888 (Part III, Ann. Rep. Dep. Int., 1888).
259.	“	1887 and 1888 (Part A, Ann. Rep., vol. III, 1887-88).
291.	“	1889 (Part III, Ann. Rep. Dept. Int., 1889).
293.	“	1889 (Part A, Ann. Rep., vol. IV, 1888-89).
†320. (E)	“	1890 (Blue-book).
†946. (F)		
321. (E)	“	1891 (Blue-book).
†1014. (F)		
323.	“	1891 (Part AA, Ann. Rep., vol. V, 1890-91).
†352. (E)	“	1892 (Blue-book).
†1027. (F)		
355.	“	1892 (Part A, Ann. Rep., vol. VI, 1892-93).
†353. (E)	“	1893 (Blue-book).
†1071. (F)		
356.	“	1893 (Part AA, Ann. Rep., vol. VI, 1892-93).
†552. (E)	“	1894 (Blue-book).
†1151. (F)		
553.	“	1894 (Part A, Ann. Rep., vol. VII, 1894).
†582. (E)	“	1895 (Blue-book).
†1323. (F)		
583.	“	1895 (Part A, Ann. Rep., vol. VIII, 1895).

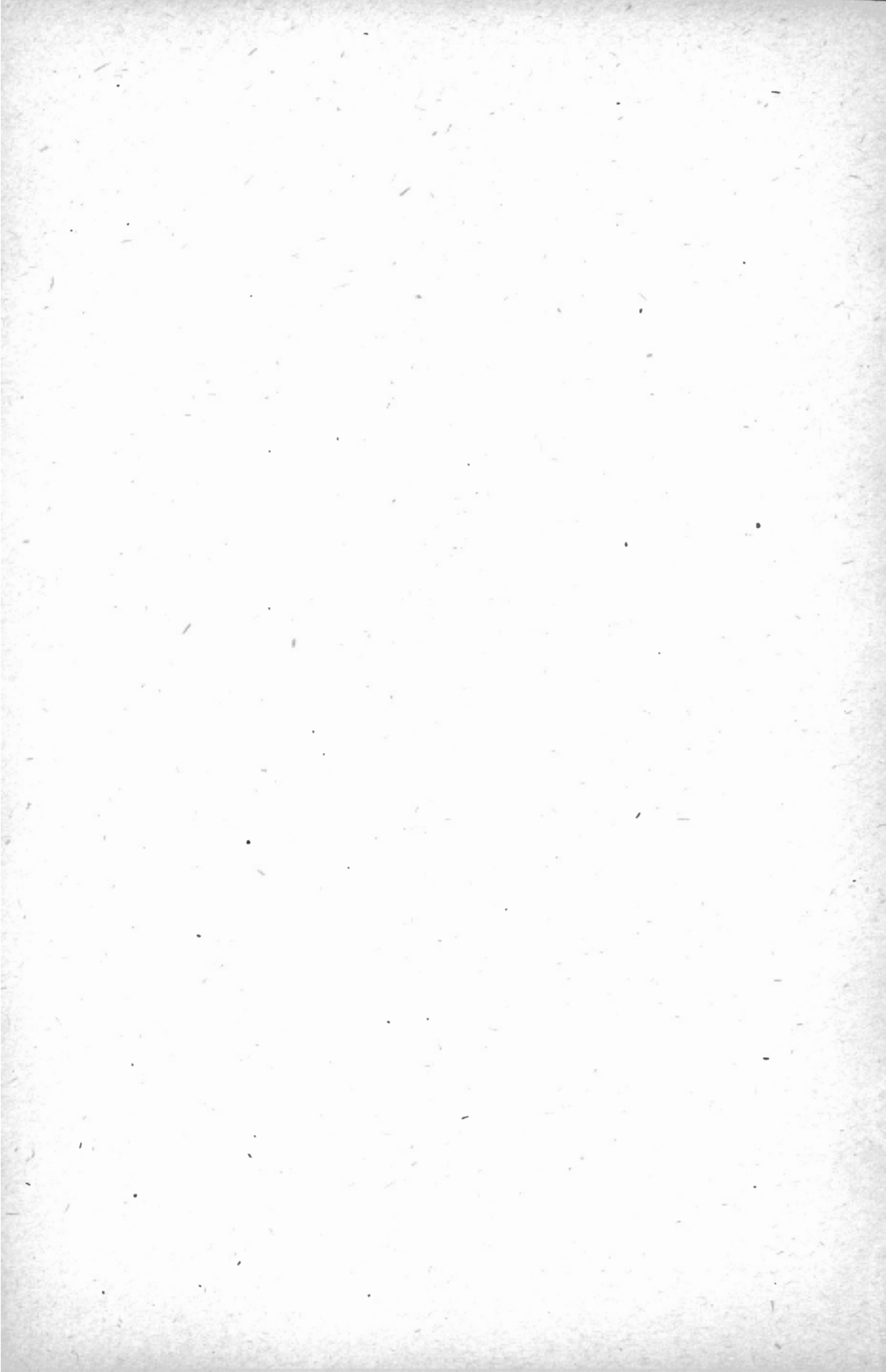
¹The Summary Reports are also contained in the bound volumes of Sessional Papers of the Parliament of Canada.

- †613. (E) Summary Report for 1896 (Blue-book).
 †1334. (F)
614. " 1896 (Part A, Ann. Rep., vol. IX, 1896).
- †632. " 1897 (Blue-book. Probably issued in French, but not seen).
644. " 1897 (Part A, Ann. Rep., vol. X, 1897).
- †673. (E) " 1898 (Blue-book).
 †546. (F)
674. " 1898 (Part A, Ann. Rep., vol. XI, 1898).
- †690. (E) " 1899 (Blue-book).
 †1546. (F)
691. " 1899 (Part A, Ann. Rep., vol. XII, 1899).
- †716. (E) " 1900 (Blue-book).
 †1636. (F)
717. (E) " 1900 (Part A, Ann. Rep., vol. XIII, 1900).
 1053. (F)
- †761. (E) " 1901 (Blue-book).
 †461. (F)
762. (E) " 1901 (Part A, Ann. Rep., vol. XIV, 1901).
 1054. (F)
- †816. (E) " 1902 (Blue-book. Through error, French edition bears the number "947").
 †957. (F)
817. (E) " 1902 (Part A, Ann. Rep., vol. XV, 1902-03).
 1055. (F)
865. " 1903 (Blue-book. Probably issued in French, but not seen).
866. (E) " 1903 (Part AA, Ann. Rep., vol. XV, 1902-03).
 1056. (F)
- †899. (E) " 1904 (Blue-book).
 899a. (F)
900. (E) " 1904 (Part A, Ann. Rep., vol. XVI, 1904).
 1057. (F)
- †947. (E) " 1905 (Blue-book. Through error, French edition bears the number "947").
 948. (F)
- †959. (E) " 1906 (Blue-book).
 960. (F)
1017. (E) " 1907 (Blue-book).
 1018. (F)
1021. " 1907 (Summary report of H. Fletcher).
1072. (E) " 1908 (Blue-book).
 1072a. (F)

1120. (E) Summary Report for 1909 (Blue-book).
1122. (F)
1170. (E) " 1910 (Blue-book).
1176. (F)
1218. (E) " 1911 (Blue-book. Through error, French edition
1475. (F) bears the number "1218").
1305. (E) " 1912 (Blue-book).
1306. (F)
1359. (E) " 1913 (Blue-book).
1360. (F)
1503. (E) " 1914 (Blue-book).
1504. (F)
1616. (E) " 1915 (Blue-book).
1617. (F)



PART XVII.
FINDING LISTS.



PART XVII.

FINDING LISTS.

All publications of the Geological Survey are given in the finding lists except certain reports, maps, and special publications which it is unnecessary or impracticable to include on account of their general character, non-Canadian subject matter, or for other obvious reasons. For such publications parts VII, VIII, IX, and XI of this catalogue should be consulted.

The finding lists are arranged according to provinces and territories as follows:

Yukon.	North West Territories.
British Columbia.	Ontario.
Alberta.	Quebec.
Saskatchewan.	New Brunswick.
Manitoba.	Nova Scotia and Prince Edward Island.

For each of these there is an index map subdivided into areas the boundaries of which, in general, are lines of latitude and longitude. Each row of subdivisions has its letter, commencing with "A" for the most southerly, "B" for the next to the north, and so forth. The subdivisions of each row, from west to east, have consecutive numbers attached to the letter, as A1, A2, etc. For portions of Quebec, where smaller divisions are desirable on account of the large number of detailed reports and maps relating to them, one subdivision in the "A" row is again divided into two parts, and two in the "B" row into four parts each. These smaller divisions bear an additional figure, e.g. the divisions of "B5" are lettered and numbered "B51, B52, B53, B54."¹

For each province or territory there is first a section in which each map subdivision is given in one column, with the publication numbers (in numerical order) of all reports and maps relating to it arranged in an opposite column.

This section is followed by two others, one containing a title-list of the reports and the other of the maps.

"Reports" as used here includes all publications other than maps, etc., and "Maps" includes maps, plans, diagrams, and sections.

In the first section the reports for each subdivision of the index map are classified under the following necessarily brief headings:

General. (Appendices to general reports, on special subjects (palæontological, zoological, etc.), and similar brief reports included in the main contents, are listed under their appropriate headings.)

¹AUTHOR'S NOTE: This is one of the minor defects in the index maps, referred to in my introduction (p. 2). The second figure was evidently intended to represent the number of the subdivision of the area, e.g., the subdivisions of area "B5" would, under that system, be lettered and numbered "B1-1," "B2-2," etc. The two figures have, however, been run together on the maps and in any case the system is too complicated to use in the Finding Lists. The two figures have, therefore, been treated as whole numbers, "51," "52," etc.

Minerals, rocks, etc. (Including the reports of the division of mineral statistics and mines and the chemical laboratory, the mineral resources bulletins, and reports or appendices not of a general character.)

Palæontology. (Including all reports, appendices, and special publications on fossils.)

Zoology.

Botany.

Anthropology. (Including ethnology, linguistics, archæology, etc.)

Geography, topography. (Including altitudes, latitudes and longitudes, magnetic declinations, etc.)

Meteorology. (Including weather statistics, climate, etc.)

Each publication in the lists of reports and maps by titles has a page reference to the part of the catalogue where the full details and notes, including references to any preliminary reports, may be found.

For convenience of reference the reports and maps are arranged in numerical order according to the publication number, which is placed opposite each of them in the margin. In the case of reports not issued as separates this number is that of the volume containing them. For those forming parts of bound volumes and also issued as separates, the number in the margin is that of the separate. Most of these latter reports are included in volumes whose parts bear distinctive letters. In such cases the publication number of the volume, followed by the letter of the part, immediately precedes the title.

Summary reports issued both in blue-book form and as part A of an Annual Volume have the two publication numbers placed in the margin, the first being that of the blue-book.

Following the title of each report and map are the subdivisions of the index map which include localities referred to in the reports or covered by the maps. Thus not only can a particular area be quickly found, but the whole scope of a report or map is seen at a glance.

Frequently a small but important item of information regarding some locality outside of the main area dealt with, occurs in a report; in such cases the addition of the subdivision containing it directs attention to the fact.

Regarding the reports of the division of mineral statistics and mines, each mineral for which definite localities and information are given, is listed, followed by the subdivision in which it occurs.

How to Use the Finding Lists.

As an example, let us take an extreme case and suppose that it is desired to obtain *all* the information which has been published by the Geological Survey on lake Nipigon.

Turning to the Ontario finding list and examining the index map it will be seen that the lake lies in subdivisions D4 and E4.

In the first section of the list, opposite D4 we see that the general reports are Nos. 4, 74, 84, 89, 154, 209, 211, 266, 296, 537, 539, 541, 544, 552, 553, 673, 674, 678, 690, 691, 716, 717, 761, 762, 816, 817, 899, 900, 947, 992, 1059, 1072, 1081, 1091, 1170, 1561; and opposite E4 the general reports, other than those just given, are Nos. 239, 865, 866, 959, 1080.

Consulting next the section giving the list of reports by titles (using the page reference given after each title when more details are desirable), we find that we can at once eliminate Nos. 4, 89, 154, 209 (or 211), 239, 266, 544, 678, 716 (or 717), 865 (or 866), 947, 1080, 1081, 1170.

As regards reports Nos. 84, 296, 537, 539, 541, 690 (or 691), 899 (or 900), 1561, it cannot be determined from the titles alone whether or not they contain information on lake Nipigon. Of these, Nos. 537, 539, and 541 are Guide Books, and on consulting the detailed lists of their contents given in part V of this catalogue, it will be found that No. 541 contains some information and Nos. 537 and 539 do not. Nos. 84, 296, 690 (or 691), 899 (or 900), 1561, are, therefore, the only cases where an examination of the report itself is necessary, and this will show that Nos. 84 and 296 contain information on the lake and Nos. 690 (or 691), 899 (or 900), and 1561 do not.

The general reports which we require, therefore, are Nos. 74, 84, 296, 541, 552 (or 553), 673 (or 674), 761 (or 762), 816 (or 817), 959, 992, 1059, 1072, 1091.

Where more than one report is listed under the one publication number, as in many Reports of Progress, Annual Reports, and Summary Reports, by glancing over the subdivisions given after each title the reports which refer to the required subdivisions can be quickly found.

Considering now special subjects, we find that for D4 and E4 these fall under the headings "minerals, rocks, etc.," "palæontology," "zoology," "botany," and "geography, topography."

Reports on minerals, rocks, etc., for D4 are Nos. 86, 138, 156, 222, 245, 246, 266, 272, 273, 299, 333, 334, 335, 360, 391, 545, 572, 580, 616, 662, 718, 724, 800, 821, 835, 880, 893, 947, 953; and for E4, other than these, Nos. 96 and 102.

Consulting, as before, the list of reports by titles, we at once eliminate Nos. 266, 391, 545, 947.

Of the remainder, Nos. 86, 245, 272, 334, 335, 360, 572, 662, 718, 800, 835, 893, are reports on mineral statistics and mines. From the list by titles it can be seen at a glance which minerals we must look up in the report. We find that none of the reports mentioned contain the information we seek. As an example, the only mineral listed in No. 86 as occurring in D4 is silver, and lake Nipigon is not given amongst the localities noted for Ontario.

Nos. 138, 156, 222, 246, 273, 299, 333, 580, 616, 724, 821 are reports of the chemical laboratory. These have excellent detailed tables of contents, and we quickly find that No. 821 (giving analyses of dolomite and dolomitic limestone from lake Nipigon) is the only one required.

Nos. 880 and 953 are mineral resources bulletins on peat and barite (including strontianite). We find they do not contain anything on our subject.

In No. 96 an analysis of limestone from Inner Barn island, lake Nipigon, will be found in the footnote on p. 36 (225 of volume). Also an analysis of iron ore from an indefinite locality on the east side of the lake.

In No. 102 an analysis of a rock from Dog island, lake Nipigon, is given in the footnote on p. 11.

The required reports on minerals, rocks, etc., are, therefore, Nos. 96, 102, and 821.

Reports on palæontology for D4 are Nos. 291 (or 293) and 712; and none are given for E4. On examining them we find no reference to lake Nipigon. (No. 712 deals only with palæozoic rocks which do not occur on the lake, but as it is known that fossil corals are found in the drift on the north shore, a reference might possibly have been found in a report of this nature.)

One report on zoology, No. 154, is given for D4; and one, No. 492, for E4. Turning to No. 154 we find that the only report on a zoological subject followed by subdivision D4 is Appendix II to No. 154 (C). On examining it we see that lake Nipigon is not included in the lists of localities. No. 492 has a reference to 899 (or 900) where we find it to be a separate of a list of land and freshwater shells included in [xi] of 899 (or 900); the title of the main report shows that it may be disregarded.

One report on botany, No. 453, is given for both D4 and E4. Turning to the titles we find it to be a list of Canadian *Hepaticæ*, and inspecting the publication we see that a number of genera and species are credited to lake Nipigon.

Under the heading of geography and topography, again one report, No. 296, is given for both D4 and E4. The list of titles shows that Appendices I and II cover these areas, and in them the courses of glacial striæ and the altitude of the lake are given.

Attention is once more called to the advisability, when seeking information on any subject, of consulting also those publications which, for reasons already stated, are not included in the finding lists. Thus the altitude of the lake is more accurately given in No. 745 (Altitudes in Canada), listed in part XI, than in the earlier publication No. 296.

As regards maps, opposite subdivision D4 we find that Nos. 78, 285, 286, 314, 537a, 541s, 541w, 541x, 560, 589, 746, 749, 755, 847, 889, 964, 993, 1090, are given; and opposite E4 the only maps other than these are Nos. 846 and 1089.

Consulting the list of Ontario maps by titles, and referring to the index map, we can at once eliminate maps Nos. 285, 537a, 560, 589, 746, 749, 755, 846, 889, 1089.

Of the remaining maps, Nos. 286, 314, and 964 are the only cases where it is not clear from the title whether or not they include lake Nipigon. For No. 286, using the page reference given after the title, we can ascertain from the title of the report which it accompanies that it does not cover the area with which we are concerned. Nos. 314 and 964 are the only instances where inspection of the map itself is required to determine whether or not it contains the desired information, and we find that the direction of glacial striæ on the lake is indicated on No. 314, and that the geology of the eastern portion of the lake is shown on map No. 964.

The required maps are, therefore, Nos. 78, 314, 541s, 541w, 541x, 847, 964, 993, 1090.

Lake Nipigon, of course, is also shown on the general geological maps of Canada listed in part XI, which should always be consulted in addition to those given in the finding lists.

In the case for which the method of procedure has been detailed the area on which information was sought embraces only a small portion of two subdivisions on the map. There are many reports and maps dealing with other areas in the same subdivisions, yet, starting with a total of 68 reports

and 20 maps, we have with little difficulty picked out the 18 reports and 9 maps containing the specific information required.

Of course, where the scope of the inquiry is not so broad, the search is much simplified, and the more so, in any instance, for those familiar with Canadian geology or geography, who will be able in many cases to determine at once from the title of a report whether or not it is necessary to examine it for the desired information.

YUKON.

KEY TO PUBLICATIONS.

(The numbers in the column entitled "Publications" are the publication numbers of reports and maps treating of portions of country included in the respective map subdivisions.)

MAP SUBDIVISION.	PUBLICATIONS.
A1.	<i>Reports:</i> General 673 674 899 900 947 1359 1385 1388 1503 Minerals, rocks, etc. 958 Palæontology 1385 1616 Botany 1359 Anthropology 261 <i>Maps:</i> 274 304 542g 894 917 1332 1354 1355 1491
A2.	<i>Reports:</i> General 673 674 899 900 982 1072 1101 1388 1503 Palæontology 493 899 900 Anthropology 261 <i>Maps:</i> 274 277 304 542g 894 917 990 1103 1104 1332 1491
A3.	<i>Reports:</i> General 260 295 542 629 673 674 716 717 743 909 947 959 982 1017 1050 1072 1101 1120 1228 1388 1503 1616 1620 Minerals, rocks, etc. 262 271 273 695 716 717 724 800 818 821 872 958 971 Palæontology 1616 Zoology 260 Botany 260 Anthropology 261 Geography, topography 260 Meteorology 260 <i>Maps:</i> 274 277 304 542g 711 742 752 916 917 990 1026 1033 1041 1044 1045 1046 1047 1048 1049 1103 1104 1229a 1230 1231 1332 1412 1426 1491
A4.	<i>Reports:</i> General 260 629 673 674 743 1072 1097 Minerals, rocks, etc. 271 299 695 1072 Anthropology 261 Geography, topography 260 Meteorology 260 <i>Maps:</i> 274 276 277 304 542g 711 742 917 1099 1412 1426
A5.	<i>Reports:</i> General 260 629 1072 1097 Minerals, rocks, etc. 115 271 273 1170 Zoology 260 1482 Anthropology 261 Geography, topography 260 Meteorology 260 <i>Maps:</i> 274 276 304 542g 917 1099 1412
A6.	<i>Reports:</i> General 260 629 1388 1465 Minerals, rocks, etc. 271 273 Zoology 260 Botany 260 Anthropology 261 Geography, topography 260 Meteorology 260 <i>Maps:</i> 274 276 304 542g 917 1099 1412 1435
A7.	<i>Reports:</i> General 1388 <i>Maps:</i> 304 542g 1412 1435
B1.	<i>Reports:</i> General 295 542 629 673 674 687 716 717 761 762 865 866 884 959 979 1120 1218 1359 1385 1503 1616 1664 Minerals, rocks, etc. 271 651 662 695 698 718 724 821 958 959 1533 1616 Palæontology 1385 Botany 816 817 1359 Anthropology 261 Meteorology 816 817 <i>Maps:</i> 274 304 313 542g 688 753 772 885 886 917 1011 1332 1354 1355 1489 1491 1618

MAP
SUBDIVISION.

PUBLICATIONS.

- B2.** *Reports:* General 260 295 542 629 673 674 716 717 761 762 816 817 899 900 982 1017 1072 1101 1120 1388 1616 Minerals, rocks, etc. 262 271 273 580 662 724 744 800 958 1359 Palaeontology 443 Zoology 260 Botany 260 Anthropology 261 Geography, topography 260 Meteorology 260
Maps: 274 277 304 313 542g 805 891 917 991 1103 1332 1491
- B3.** *Reports:* General 260 542 629 716 717 816 817 899 900 943 947 1072 1101 1388 1616 Minerals, rocks, etc. 262 271 800 818 821 Zoology 260 943 Botany 260 Anthropology 261 Geography, topography 260 Meteorology 260
Maps: 274 277 304 542g 805 891 917 938 1103 1332 1491
- B4.** *Reports:* General 260 629 816 817 943 947 1072 1097 Minerals, rocks, etc. 271 Zoology 943 Botany 260 Anthropology 261 Geography, topography, 260
Maps: 274 276 277 304 542g 805 917 938 1099 1332
- B5.** *Reports:* General 816 817 1072 1097 Minerals, rocks, etc. 271 821 Anthropology 261
Maps: 274 276 304 542g 805 917 1099
- B6.** *Reports:* General 1072 1097 Minerals, rocks, etc. 580 Anthropology 261
Maps: 274 276 542g 917 1099
- C1.** *Reports:* General 295 542 629 673 674 687 716 717 761 762 865 866 884 959 979 1120 1218 1305 1388 1461 Minerals, rocks, etc. 271 299 580 651 662 695 698 718 724 744 800 821 835 913 958 959 Palaeontology 1305 1359 1461 Zoology 260 Botany 690 691 816 817 1305 1461 Anthropology 261 Meteorology 816 817
Maps: 274 304 312 313 542g 542h 688 753 772 885 886 917 1011 1332 1443
- C2.** *Reports:* General 899 900 1616 Anthropology 261
Maps: 274 304 542g 891 917 1332
- C3.** *Reports:* General 899 900 943 947 951 1218 1616 Minerals, rocks, etc. 821 958 Palaeontology 951 Anthropology 261
Maps: 274 304 542g 891 917 938 942 1332
- C4.** *Reports:* General 943 947 951 Palaeontology 951 Zoology 943 Anthropology 261
Maps: 274 304 542g 917 938 942 1099
- D1.** *Reports:* General 260 295 629 1218 1305 1461 Palaeontology 1218 1359 1461 Botany 1218 1305 1461 Anthropology 261
Maps: 274 304 312 542g 917 1444
- D2.** *Reports:* General 295 629 1388 Palaeontology 443 Anthropology 261
Maps: 255 274 304 311 312 542g 917
- D3.** *Reports:* General 947 951 1388 Palaeontology 951 Anthropology 261
Maps: 255 274 304 542g 917 942
- E1.** *Reports:* General 244 1388 1503 1616 Anthropology 1305.
Maps: 255 274 542g 917
- E2.** *Reports:* General 244 1388 1503 Anthropology 1305
Maps: 255 274 542g 917

YUKON.

REPORTS.

(Divisions on the index map which include areas referred to in the report are given after each title.)

115. General note on the mines and minerals of economic value of British Columbia, with a list of localities. By G. M. Dawson. (A5.) p. 22
244. 233(R). Notes to accompany a geological map of the northern portion of the Dominion of Canada, east of the Rocky mountains. By G. M. Dawson. (E1, E2.) p. 37
260. 258(B). Report on an exploration in the Yukon district, N.W.T., and adjacent northern portion of British Columbia. 1887. By G. M. Dawson. (A3 to A6, B2, B3, B4.) p. 39
 Appendix I. Notes on the distribution of trees and of certain shrubs in the Yukon district and adjacent northern portion of British Columbia. By G. M. Dawson. (A3 to A6, B2, B3, B4.)
 Appendix III. List of plants collected by Dr. G. M. Dawson in the Yukon district and adjacent northern portion of British Columbia in 1887. By John Macoun. (A3, A5, A6, B2, B3, B4.)
 Appendix IV. Zoology.
 List of diurnal *Lepidoptera*. By J. Fletcher.
 1. List of diurnal *Lepidoptera* collected in the Yukon district and adjacent northern portion of British Columbia. (A3, A5, A6, B2, B3, C1.)
 Fishes, determined from photographs. By T. H. Bean. (A6.)
 Description of a new red-backed mouse (*Evolomys dawsoni*) from the headwater of Liard river, North West Territories. By C. H. Merriam. (A6.)
 Appendix VI. Meteorological observations.
 I. Meteorological observations in the Yukon district and adjacent northern part of British Columbia, June 1 to September 19, 1887. [By J. McEvoy.] (A3 to A6, B2, B3.)
 Appendix VII. Summary of astronomical observations employed in the construction of the map accompanying this report. By G. M. Dawson. (A3 to A6, B2, B3, B4.)
261. Notes on the Indian tribes of the Yukon district and adjacent northern portion of British Columbia. (Appendix II to No. 260.) By G. M. Dawson. (A1 to A6, B1 to B6, C1 to C4, D1, D2, D3.) p. 39
262. Notes on the lithological character of some of the rocks collected in the Yukon district and adjacent northern portion of British Columbia. (Appendix V to No. 260.) By F. D. Adams. (A3, B2, B3.) p. 40
271. 258(R). The mineral wealth of British Columbia, with an annotated list of localities of minerals of economic value. By G. M. Dawson. (A3 to A6, B1 to B5, C1.) p. 42
273. 258(T). Chemical contributions to the geology of Canada, from the laboratory of the Survey. By G. C. Hoffmann. (A3, A5, A6, B2.) p. 42
295. 292(D). Report on an exploration in the Yukon and Mackenzie basins, N.W.T. By R. G. McConnell. (B1, B2, C1, D1, D2.) See also No. 629. p. 44
299. 292(R). Chemical contributions to the geology of Canada, from the laboratory of the Survey. By G. C. Hoffmann. (A4, C1.) p. 44
443. Contributions to Canadian palæontology, volume I, part II.
 4. On some Cretaceous fossils from British Columbia, the North West Territory, and Manitoba. By J. F. Whiteaves. (B2, D2.) p. 171
493. III. Description of a presumably new species of *Bythotrephix* (*B. Yukonensis*) from the Unihani River shales, Yukon Territory. (Appendix III to No. 399.) By H. M. Ami. (A2.) p. 78
542. Guide Book No. 10. Excursions in northern British Columbia and Yukon Territory and along the North Pacific coast. (A3, B1, B2, B3, C1.) p. 160
580. 581(R). Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (B2, B6, C1.) p. 53
629. Report on an exploration in the Yukon district, N.W.T., and adjacent northern portion of British Columbia, 1887, with extracts relating to the Yukon district from report on an exploration in the Yukon and Mackenzie basins 1887-88 by R. G. McConnell. By G. M. Dawson. (A3 to A6, B1 to B4, C1, D1, D2.) p. 40

- {632. Summary Report for 1897: pp. 57, 58
 {644. Notes on the placer gold deposits of the Yukon Territory. By G. M. Dawson. (Refers to the Yukon Territory in general.)
651. 658(R). Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (B1, C1.) p. 57
662. 679(S). Section of mineral statistics and mines. Annual report for 1897. By E. D. Ingall. (Gold B1, C1; asbestos B2, C1.) p. 59
- {673. Summary Report for 1898: p. 60
 {674. Explorations in the southwestern portion of the Yukon Territory and adjacent portion of British Columbia. By J. B. Tyrrell. (A1, A2, A3, B1, B2.)
 Explorations in the southwestern portion of the Yukon Territory and adjacent portion of British Columbia. By R. G. McConnell. (A3, A4.)
 Preliminary note on the gold deposits and gold mining in the Klondike region, Yukon district. By R. G. McConnell and J. B. Tyrrell. (B1, C1.)
687. Preliminary report on the Klondike gold fields, Yukon district, Canada. By R. G. McConnell. (B1, C1.) p. 63
- {690. Summary Report for 1899: pp. 62, 63
 {691. Note on some plants from Dawson, Y. T. By John Macoun. (C1.)
695. 715(R). Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (A3, A4, B1, C1.) p. 61
698. 715(S). Section of mineral statistics and mines. Annual report for 1898. By E. D. Ingall. (Gold B1, C1.) p. 61
- {716. Summary Report for 1900: pp. 65, 66
 {717. Note on coals in the Yukon district. By G. M. Dawson. (A3.)
 Explorations of the Stewart river from its mouth to Fraser falls, the Yukon river between Stewart and Cliff creek, and the White Horse copper deposits, Yukon Territory. By R. G. McConnell. (A3, B1, B2, B3, C1.)
718. 782(S). Section of mineral statistics and mines. Annual report for 1899. By E. D. Ingall. (Gold B1, C1.) p. 64
724. 782(R). Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (A3, B1, B2, C1.) p. 64
743. 782(B). Report on the Atlin mining district, British Columbia. By J. C. Gwillim. (A3, A4.) p. 63
744. 830(S). Section of mines. Annual report for 1900. By E. D. Ingall. (Coal B2, C1.) p. 67
- {761. Summary Report for 1901: pp. 68, 69
 {762. [i]. The Yukon district. By R. G. McConnell. (A3, B1, B2, C1.)
800. 907(S). Section of mines. Annual report for 1901. By E. D. Ingall. (Platinum A3, B3; Coal B2, C1.) p. 70
- {816. Summary Report for 1902: pp. 72, 74
 {817. [i] The Macmillan river, Yukon district. By R. G. McConnell. (B2 to B5.)
 [ii] The climate and flora of the Yukon district. (Includes report by R. F. Stupart on the climate of Dawson.) By John Macoun. (B1, C1.)
818. Section of mines. Mineral resources of Canada. Bulletin No. 1. Platinum. By T. C. Denis. (A3, B3.) p. 211
821. 830(R). Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (A3, B1, B3, B5, C1, C3.) p. 67
835. 911(S). Section of mines. Annual report for 1902. By E. D. Ingall. (Coal C1.) See also reprint No. 851 (Coal.) p. 75
- {865. Summary Report for 1903: pp. 73, 75
 {866. [i] Klondike district, Yukon Territory. By R. G. McConnell. (B1, C1.)

- [xviii] Appendix (to [i]). Assays for gold. By M. F. Connor. (B1, C1.)
872. Mineral resources of Canada, Bulletin on molybdenum and tungsten. By R. A. A. Johnston, with notes (on molybdenite) by C. W. Willimott (A3.) p. 210
884. 907(B). Report on the Klondike gold fields. By R. G. McConnell. (B1, C1.) p. 69
- {899. Summary Report for 1904: pp. 76, 79
 {900. [i] The Klwane mining district. (South-western portion of Yukon district). By R. G. McConnell. (A1, A2.)
 [ii] The Duncan Creek mining district. (Stewart river, Yukon Territory.) By J. Keele. (B2, B3, C2, C3.)
 [xxxiv] Appendix III. Description of a species of *Bythotrephis* from the dark-gray calcareous and indurated slates collected by Mr. J. B. Tyrrell from a locality along the Unihani river, seven miles north of Dalton's Post, Yukon district, Canada. By H. M. Ami. (A2.) See also No. 493.
909. Recent mineral discoveries on Windy Arm, Tagish lake, Yukon. By R. G. McConnell. (A3.) See also No. 947 [iii]. p. 80
913. The mineral pigments of Canada. By C. W. Willimott. (C1.) p. 211
943. 952(C). Report on the upper Stewart River region, Yukon. By J. Keele. (B3, B4, C3, C4.) p. 79
 Appendix. List of butterflies and moths collected in the Yukon Territory by J. Keele 1904-5. Determined by J. Fletcher. (B3, B4, C4.)
947. Summary Report for 1905: p. 80
 [i] Head waters of White river, Yukon. By R. G. McConnell. (A1.)
 [ii] Windy Arm district, northwestern British Columbia. By R. G. McConnell. (A3.)
 [iii] A reconnaissance survey on the Stewart river. By J. Keele. (B3, B4, C3, C4.)
 [iv] Peel river, in the Yukon and Mackenzie districts. By C. Camsell. (C3, C4, D3.)
951. 952(CC). Report on the Peel river and tributaries, Yukon and Mackenzie. By C. Camsell. (C3, C4, D3.) p. 79
 Notes on fossils. By J. F. Whiteaves. (C3, C4, D3.)
958. Report of the section of chemistry and mineralogy. By G. C. Hoffmann. (A1, A3, B1, B2, C1, C3.) p. 108
959. Summary Report for 1906: p. 82
 [A] Note on the gold output and new operations in the Yukon. (Under "The mining industry in 1906".) By A. P. Low. (B1, C1.)
 [i] Klondike district. By R. G. McConnell. (B1, C1.)
 [ii] Explorations in a portion of the Yukon, south of Whitehorse. By D. D. Cairnes. (A3.)
971. Section of mines. Annual report on the mineral industries of Canada for 1905. By E. D. Ingall. (Silver A3.) p. 107
979. Report on gold values in the Klondike high level gravels. By R. G. McConnell. (B1, C1.) p. 108
982. Report on a portion of Conrad and Whitehorse mining districts, Yukon. By D. D. Cairnes. (A2, A3, B2.) p. 110
1017. Summary Report for 1907: p. 83
 [i] Report on portions of the Yukon Territory, chiefly between Whitehorse and Tantalus. By D. D. Cairnes. (A3, B2.)
1050. The Whitehorse copper belt, Yukon Territory. By R. G. McConnell. (A3.) p. 111
1072. Summary Report for 1908: p. 84
 [i] Preliminary report on a portion of the Yukon Territory, west of the Lewes river and between the latitudes of Whitehorse and Tantalus. By D. D. Cairnes. (A2, A3, B2.)

- [ii] Explorations on the Pelly, Ross, and Gravel rivers, in the Yukon and Northwest Territories. By J. Keele. (A4, A5, B4, B5, B6.)
- [xxiv] Section of mineralogy. By R. A. A. Johnston. (A4.)
1097. A reconnaissance across the Mackenzie mountains on the Pelly, Ross, and Gravel rivers, Yukon and North West Territories. By J. Keele. (A4, A5, B4, B5, B6.) p. 113
1101. Memoir No. 5. Preliminary memoir on the Lewes and Nordenskiöld Rivers coal district, Yukon Territory. By D. D. Cairnes. (A2, A3, B2, B3.) p. 119
- Appendix I. Mack's copper. By D. D. Cairnes. (A2.)
- Appendix II. The Giltana Lake claims. By D. D. Cairnes. (A2.)
- Appendix III. Coking, washing, and chemical tests on coal from Tantalus mine. By E. Stansfield and H. G. Carmichael. (B2.)
1120. Summary Report for 1909: p. 86
- [A] Notes on some mining districts in the Yukon Territory. By R. W. Brock. (A3, B1, C1.)
- [i] The Wheaton River district, Yukon Territory. By D. D. Cairnes. (A3, B2.)
1170. Summary Report for 1910: p. 88
- [xxvi] Section of mineralogy. By R. A. A. Johnston. (A5.)
1218. Summary Report for 1911: p. 89
- [i] I. Geology of a portion of the Yukon-Alaska boundary between Porcupine and Yukon rivers. By D. D. Cairnes. (D1.)
- II. Quartz mining in the Klondike district. By D. D. Cairnes. (B1, C1, C3.)
1228. Memoir No. 31. Wheaton district, Yukon Territory. By D. D. Cairnes. (A3.) p. 124
1305. Summary Report for 1912: p. 92
- [i] Geology of a portion of the Yukon-Alaska boundary, between Porcupine and Yukon rivers. By D. D. Cairnes. (C1, D1.)
- [xlii] Palæobotany. By W. J. Wilson. (C1.)
- [xlvi] Biological division. Botany. By John Macoun. (C1, D1.)
- [li] Anthropological division. Part I. Ethnology and Linguistics. On Eskimo work, 1908-12. By V. Stefánsson. (E1, E2.)
1359. Summary Report for 1913: p. 96
- [i] Upper White River district, Yukon. By D. D. Cairnes. (A1, B1.)
- [xxxix] Report (palæontological). By L. D. Burling. (C1, D1.)
- [xli] Mineralogy. By R. A. A. Johnston. (B2.)
- [xliv] Biological division. Botany. By J. M. Macoun. (A1, B1.)
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- [i] Exploration in southwestern Yukon. By D. D. Cairnes. (A1, A2, A3, B1.)
- [xxxvi] Canadian Arctic Expedition, 1914. Geological reconnaissance of the Arctic coast between Demarcation point and the Mackenzie river; with a section inland up the Firth river, Mackenzie district. By J. J. O'Neill. (E1, E2.)

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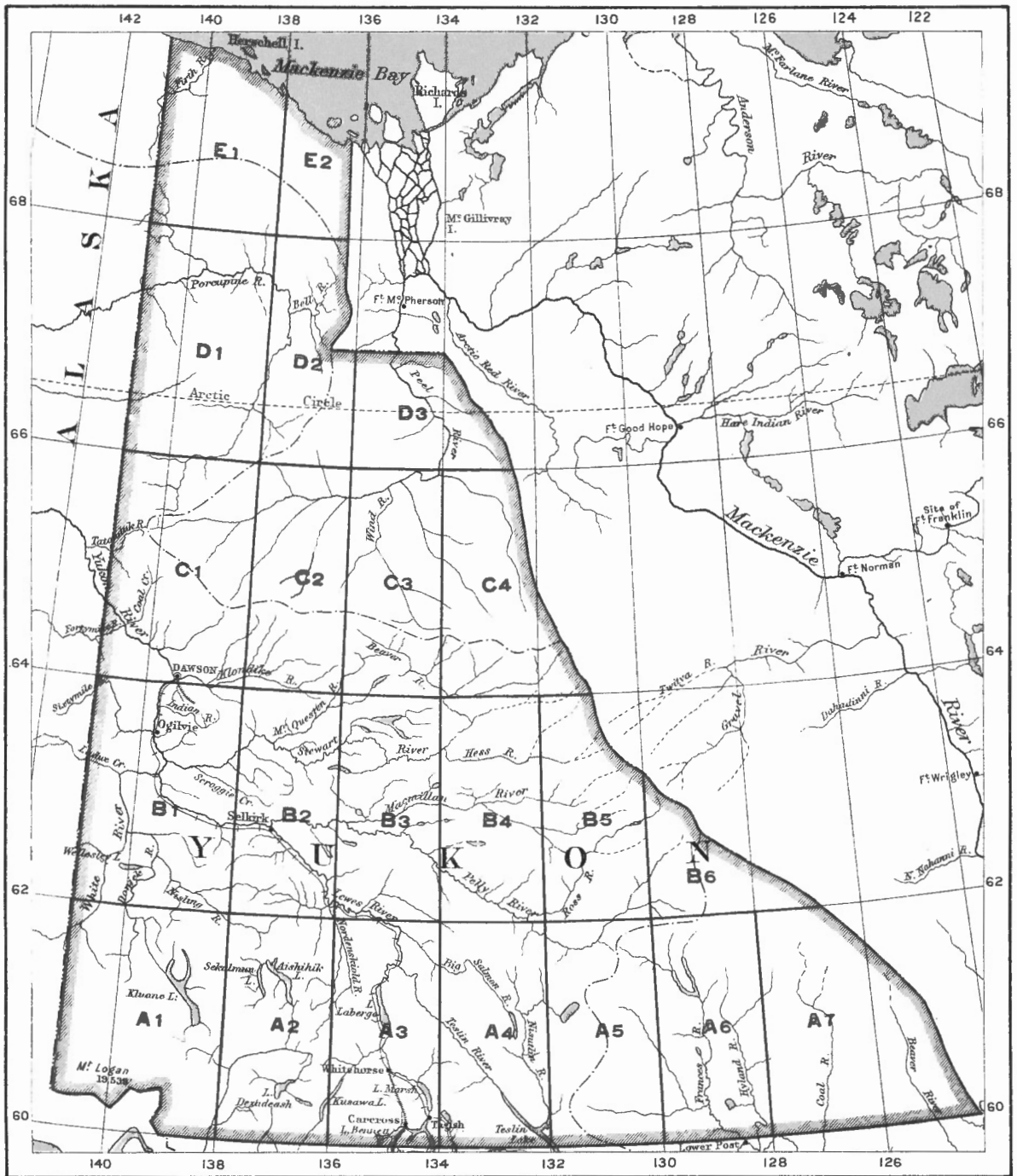
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84. Journal and report of preliminary explorations in British Columbia. By A. R. C. Selwyn. (A9, B9, B10, C8, C9, C10.) p. 17
Report (included in the above), with analyses, on silver ore from the Eureka mine, near Fort Hope; coal from the Nicola river; lignites from the Fraser river at the mouth of the Quesnel; and volcanic rocks from near Quesnel. By T. S. Hunt. (A9, B9, C8.)
84. Report on the coal-fields of Vancouver island, with a map of their distribution. Also note on the fossil plants referred to in the report, by J. W. Dawson, and analyses of coals and crystalline rocks from Vancouver island, by T. S. Hunt. By J. Richardson (A7, A8.) p. 17
86. Records of mines and mineral statistics [1869, 1870, and 1871]. Compiled by C. Robb. (Coal A8.) p. 17
89. Report on the coal-fields of Vancouver and Queen Charlotte islands, with a map of the distribution of the former. By J. Richardson. (A7, C4.) p. 17
Appendix I. Note on the fossil plants from British Columbia, collected by James Richardson in 1872. By J. W. Dawson. (A7, C4.)
Appendix II. On the Mesozoic fossils from British Columbia, collected by James Richardson in 1872. By E. Billings. (A7, C4.)
Appendix III. The coals of the west coast, iron ores, brine, and crystalline rocks, with analyses. By B. J. Harrington. (A7, C4.)

- Appendix IV. Copy of correspondence relating to the anthracite of the Queen Charlotte islands. (C4.)
94. Summary report of the director for 1873-74: p. 18
Report on the work of the chemical and mineralogical branches of the Survey. By B. J. Harrington. (Silver A9.)
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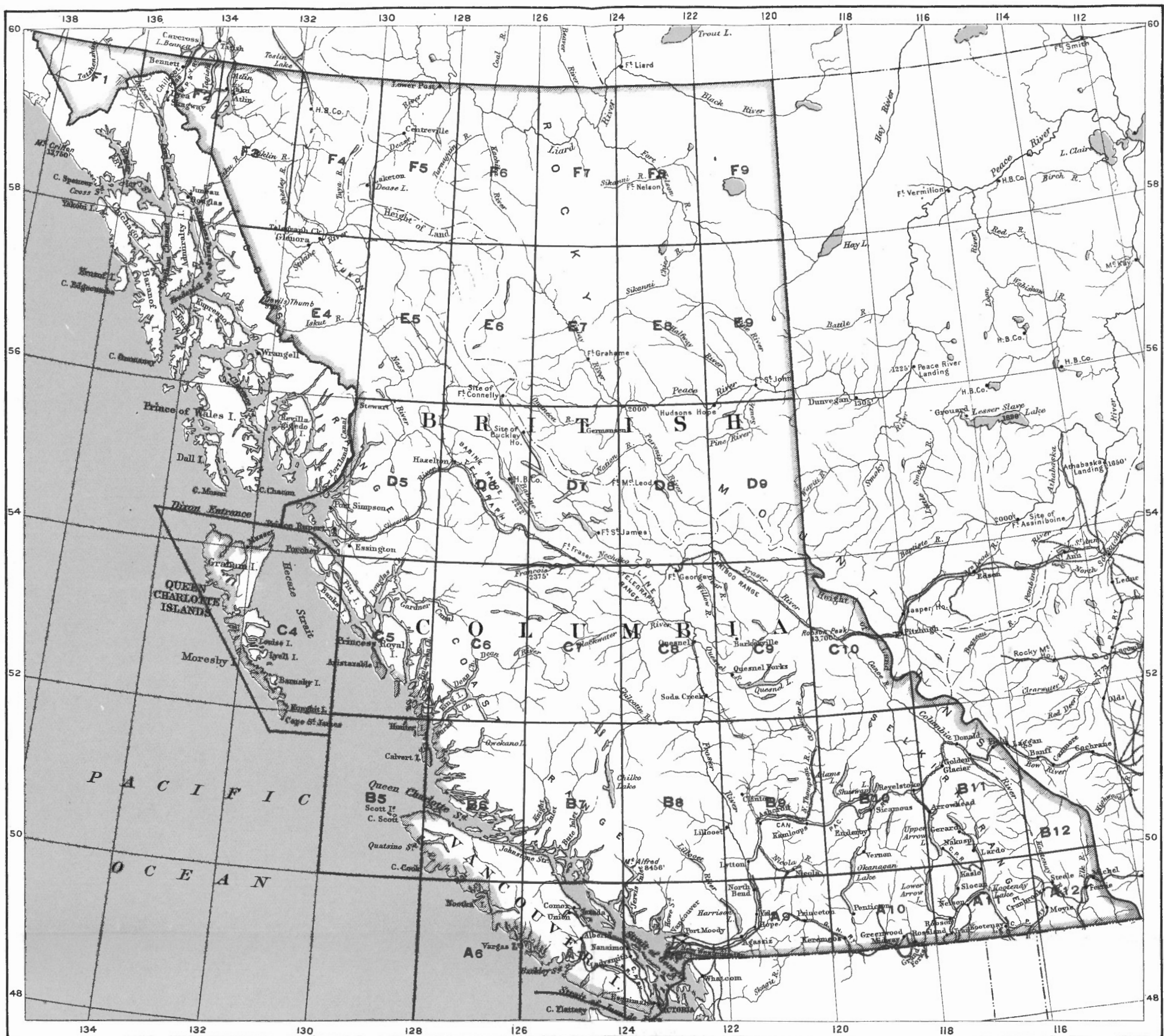
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ALBERTA.

MAPS, PLANS, DIAGRAMS, AND SECTIONS.

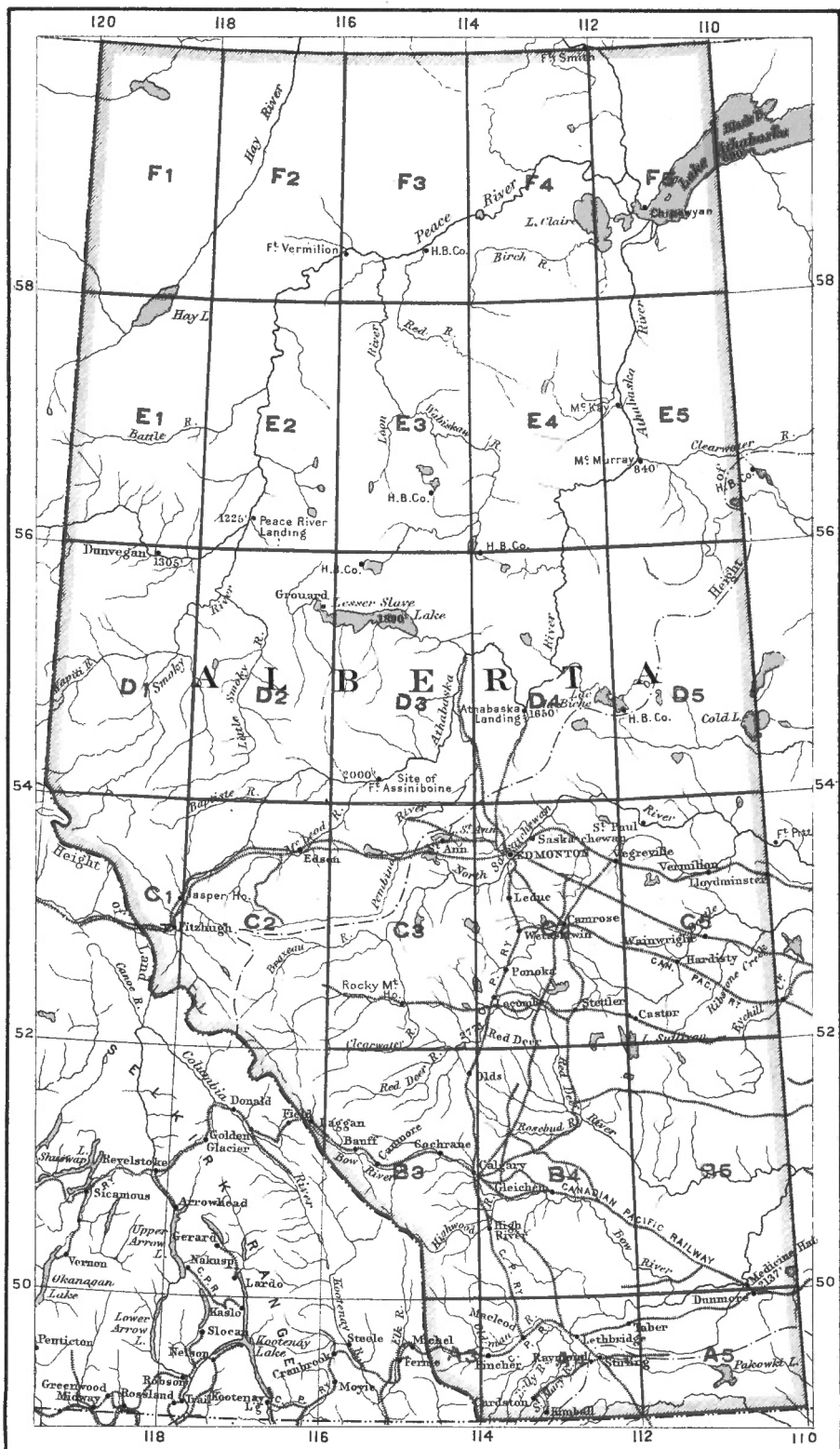
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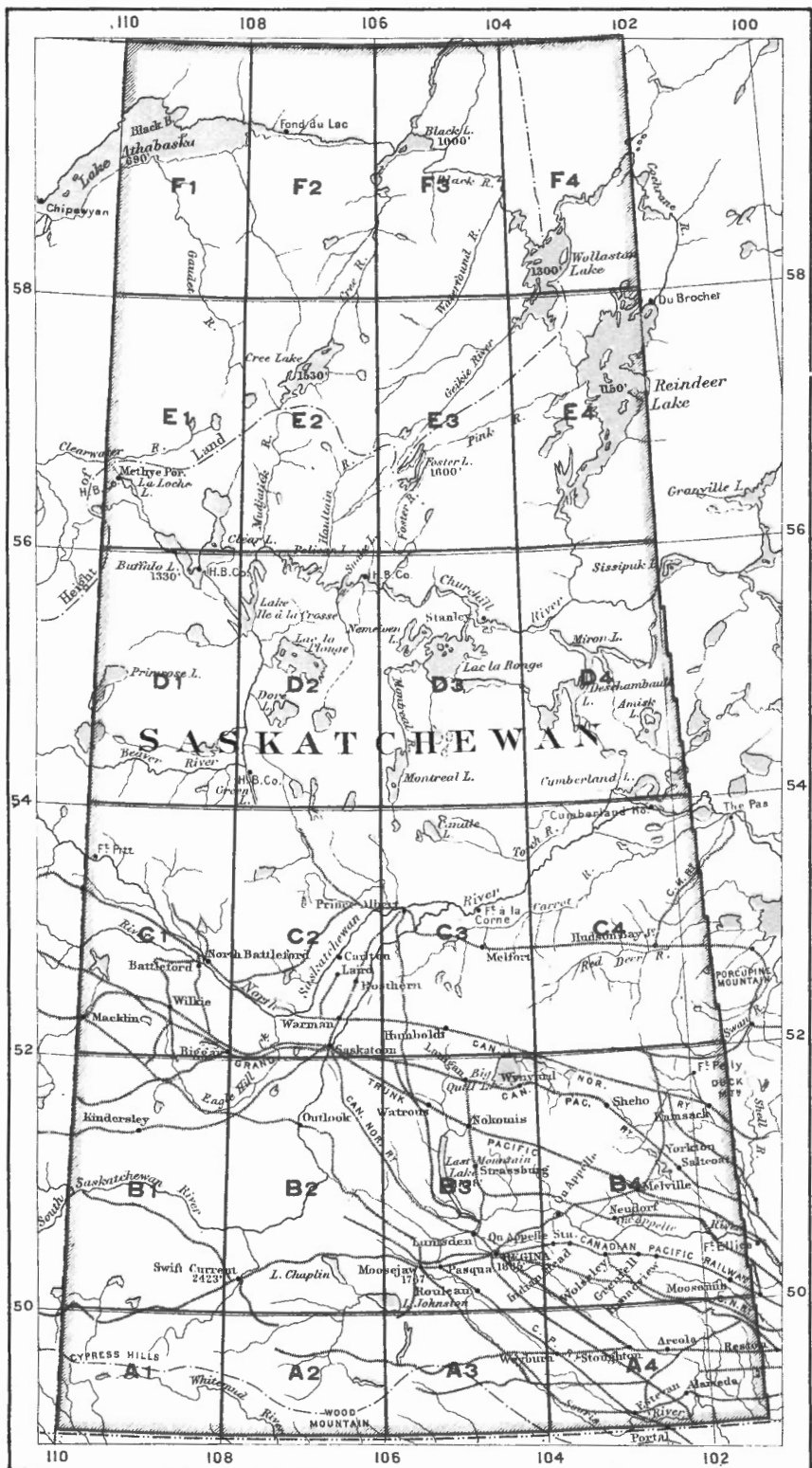
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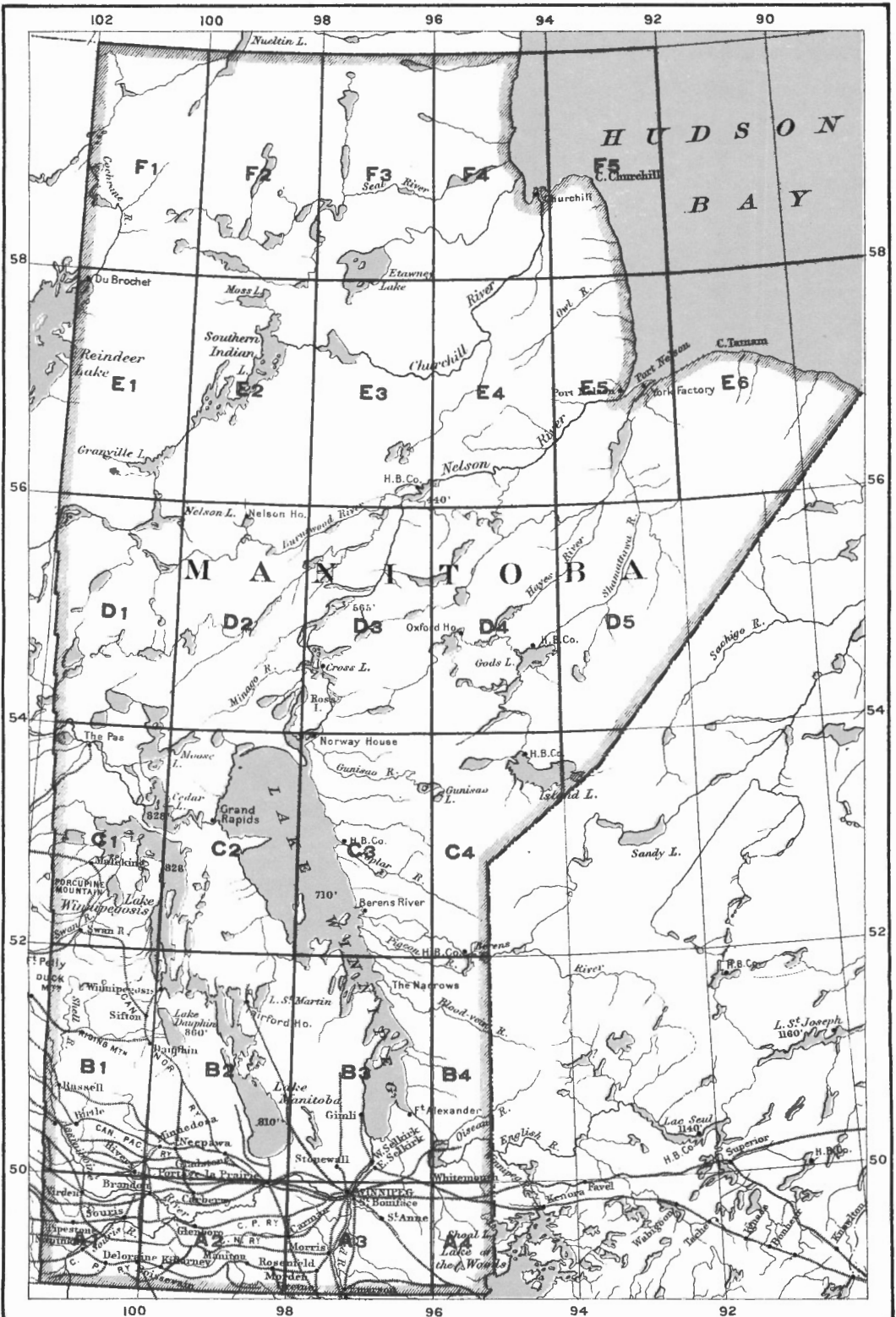
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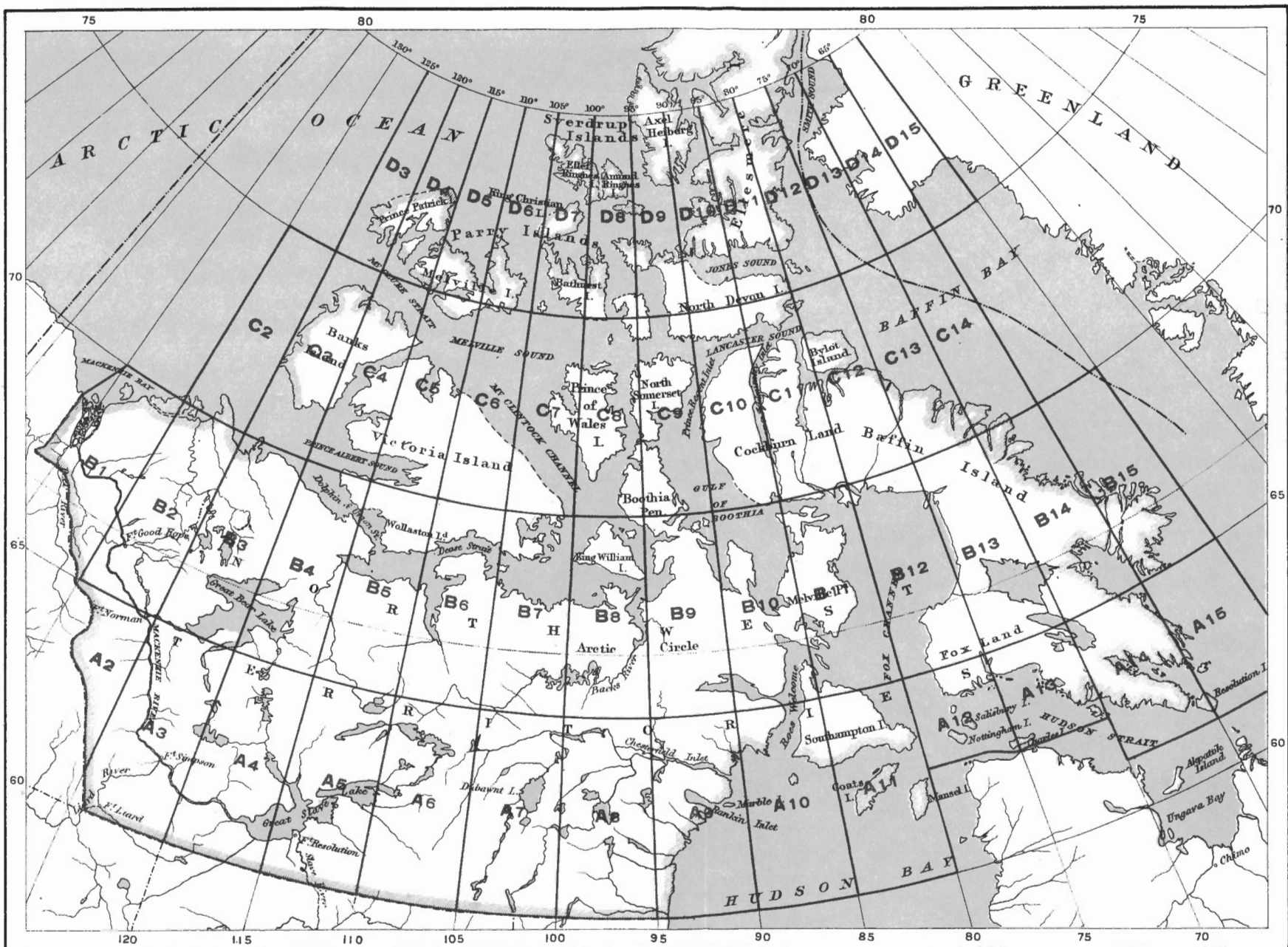
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C7. *Reports:* General 5 6 39 46 63 68 154 353 356 392 536 537 552
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C8. *Reports:* General 3 5 6 11 63 89 108 211 256 257 259 296 326 353
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 755 889 993 1061
- D4.** *Reports:* General 4 74 84 89 154 209 211 266 296 537 539 541
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 847 889 964 993 1090
- D5.** *Reports:* General 4 74 83 84 209 211 239 296 321 323 537 541 613
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 Minerals, rocks, etc. 114 156 222 245 273 299 333 334 335 359 391
 537 616 625 651 662 718 724 800 835 872 953 958 Palaeon-
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Maps: 78 159 314 541x 541y 746 749 755 847 964 1090
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- NOTE: Guide Books Nos. 6 and 7 were issued by the Geological Survey in French only. The English editions were published by the Ontario Bureau of Mines, Toronto.
524. Guide Book No. 7. Excursions to Sudbury, Cobalt, and Porcupine. (Excursions A3 and C6.) (A9, B8, B9, C8, C9, D8.) See note above. p. 155 (F)
530. [Reprint of articles III, VIII, and XI, published in the Canadian Naturalist and Geologist, volume VIII, 1863.]
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- {552. Summary Report for 1894: pp. 51, 52
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572. 581(S). Division of mineral statistics and mines. Annual report for 1893 & 1894. By E. D. Ingall. (Gold B10, C7, C8, D1, D3; copper C6, C8; nickel C8; iron B9, E2; asbestos B10; barite D4; lithographic stone B10; gas A7, A8, A9; oil A7; mineral water A9.) p. 53

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- {613. Summary Report for 1896: pp. 55, 56
614. Work in the areas of the Seine River and Manitou Lake sheets (maps Nos. 560 and 720); notes on gold locations in the vicinity of Bad Vermilion and Shoal lakes (see map No. 283); the Regina, Sultana, and Scramble mines, Lake of the Woods; the Lake Minnitaki gold region; and the Empress gold mine, near Jackfish, lake Superior, Ontario. By W. McInnes. (D1, D2, D3, D5, E2, E3.)
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Notes on investigations of corundum and nepheline-syenites in Carlow and Dungannon townships, Hastings county, and Raglan township, Renfrew county; and of corundum in Methuen township, Peterborough county, Ontario. By W. F. Ferrier. (B9, B10.)
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- Survey and geological examination of lake Nipigon, Ontario. By D. B. Dowling. (D4, E4.)
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Geological Survey, Canada.

Ontario
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QUEBEC¹.

KEY TO PUBLICATIONS.

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MAP SUBDIVISION.	PUBLICATIONS.
A3.	<i>Reports:</i> General 3 5 96 114 865 866 977 1451 1558 Minerals, rocks, etc. 8 9 11 96 114 222 272 273 297 299 333 334 335 359 360 572 580 625 651 662 695 698 724 744 800 821 835 869 872 877 899 900 913 958 Palæontology 63 423 425 431 438 491 615 684 712 977 Anthropology 1305 1469 Geography, topography 3 52 <i>Maps:</i> 60 122 660 1479 1526 1586
A4.	<i>Reports:</i> General 3 5 9 10 11 46 63 72 83 96 114 147 401 484 533 534 579 582 583 591 690 691 707 739 741 865 866 899 900 947 977 1017 1030 1170 1218 1359 1438 1451 1503 1558 1581 1616 1658 1685 Minerals, rocks, etc. 3 8 9 10 11 46 63 72 86 94 96 102 108 114 119 126 138 154 167 169 222 245 246 257 259 272 273 291 293 297 300 301 321 323 333 334 335 359 360 414 534 572 580 616 625 662 695 698 716 717 718 724 744 763 800 821 835 854 869 872 877 880 881 893 913 928 953 958 971 1072 1170 1218 1368 1503 1616 1685 Palæontology 39 41 63 425 431 438 440 490 491 739 950 1170 1218 1240 1240a 1240c 1342 1342g Zoology 46 Anthropology 1305 Geography, topography 3 46 52 <i>Maps:</i> 12 47 54 58 61 122 376 377 534d 534e 534f 534g 534h 534i 534j 534k 571 590 606 668 714 746 749 750 756 848 874 903 1062 1063 1390 1522 1523 1524 1525 1526 1527 1586 1674 1675 1679
A51.	<i>Reports:</i> General 3 5 9 10 46 63 96 125 147 209 211 484 531 533 534 579 591 707 863 865 866 947 1017 1077 1170 1218 1305 1311 1359 1438 1451 1485 1487 1558 1581 1591 1658 Minerals, rocks, etc. 3 6 7 8 9 10 11 39 46 63 86 94 96 102 114 138 246 272 297 299 334 335 360 414 534 580 651 662 724 880 913 958 971 1077 1170 1311 Palæontology 11 39 41 101 423 425 426 431 438 440 483 491 615 684 712 950 959 1077 1218 1240 1240c 1591 Zoology 46 Anthropology 1218 1305 Geography, topography 3 39 52 <i>Maps:</i> 12 47 56 58 61 376 377 534a 534b 534c 534l 534m 571 590 746 749 756 874 875 876 1078 1079 1301 1390 1490 1526 1531 1532
A52.	<i>Reports:</i> General 5 7 8 10 63 96 125 154 240 531 552 553 579 670 776 816 817 865 866 888 899 900 902 974 1017 1120 1144 1170 1190 1218 1305 1359 1451 1503 1581 1591 Minerals, rocks, etc. 5 6 7 9 11 46 63 86 96 101 102 114 148 154 155 272 273 297 301 321 323 333 334 335 359 580 625 651 662 698 724 744 761 762 776 800 816 817 821 835 854 877 880 882 888 893 899 900 902 913 928 958 959 971 974 1616 Palæontology 431 483 491 615 1240 1240c 1359 1591 <i>Maps:</i> 56 58 61 251 376 377 533g 534a 534l 571 667 756 777 862 887 901 976 1184 1202 1390
A61.	<i>Reports:</i> 3 5 8 10 46 63 64 125 154 211 240 321 323 469 531 552 553 670 816 817 865 866 899 900 947 974 1017 1028 1120 1144 1170 1190 1218 1305 1359 1451 1503 1591 Minerals, rocks, etc. 9 11 39 46 63 86 102 108 114 154 155 245 246 272 273 297 300 333 334 335 359 360 414 572 580 616 625 651 662 695 698 718 744 800

¹The Labrador coast, under the jurisdiction of Newfoundland, is included in the subdivisions. The boundary line separating it from the Dominion of Canada is, for the most part, undetermined.

Portions of the area included by map subdivisions I1, I2, I3, J1, J2, J4 are also included in map subdivisions A11, A12, A13 of the Northwest Territories index map.

MAP
SUBDIVISION.

PUBLICATIONS.

- 821 835 854 880 882 893 913 928 959 971 974 Palæontology 564
1591 Anthropology 1310 Geography, topography 52
Maps: 58 62 251 287 376 377 533g 533h 667 756 862 976 1029 1154
1184 1202 1390 1478
- A62.** *Reports:* General 8 64 125 240 469 670 816 817 865 866 974 1028 1072
Minerals, rocks, etc. 39 246 273 297 321 323 333 335 580 872 882
971 974 1616 Anthropology 1310
Maps: 251 376 377 667 756 862 976 1029 1202 1390 1478
- B2.** *Reports:* General 3 89 672 761 762 865 866 899 900 959 962
1017 1064 1072 1120 1160 1280 1305 1542 1558 1616 Minerals,
rocks, etc. 273 297 299 334 335 616 651 662 958 Palæontology
39 41 615 672 684 712 950 Zoology 326 Anthropology 1469 1470
Geography, topography 3 52 672 Meteorology 3
Maps: 159 314 524h 585 599 606 760 1007 1066 1177 1178 1282
1479 1526 1586 1609
- B3.** *Reports:* General 3 114 788 865 866 977 1305 1451 1558 1616
Minerals, rocks, etc. 273 572 616 651 662 716 717 724 854 869
872 877 Anthropology 1469 Geography, topography 3 39 52
Maps: 122 585 660 702 760 1282 1300 1479 1526 1586 1609
- B4.** *Reports:* General 46 63 67 83 114 147 484 579 591 707 739 977
1017 1451 Minerals, rocks, etc. 46 156 273 297 572 616 662 869 1368
Palæontology 739 Zoology 46 Geography, topography 46 52
Maps: 47 54 122 376 377 571 590 660 665 702 750 756 1390 1586
- B51.** *Reports:* General 67 707 1017 Minerals, rocks, etc. 256 259 572
Palæontology 950
Maps: 376 377 665 702 756 1390
- B52.** *Reports:* General 46 256 259 320 707 1017 Minerals, rocks, etc.
333
Maps: 376 377 665 756 1390
- B53.** *Reports:* General 10 11 46 147 211 484 579 591 707 865 866 1451
1558 1581 1591 Minerals, rocks, etc. 8 11 272 297 299 334 335 359
360 572 580 662 800 821 835 877 880 882 913 Palæontology 431
438 483 684 712 1591 Zoology 46 Botany 899 900
Maps: 12 47 58 376 377 571 590 665 749 756 1390 1526
- B54.** *Reports:* General 7 10 63 96 125 147 167 232 234 240 256 259 268
320 531 670 707 716 717 761 762 865 866 1017 1305 1359 1451
1558 1581 1591 Minerals, rocks, etc. 6 9 10 11 63 86 96 114 256
259 272 297 334 335 360 580 625 662 698 716 717 718 724 800
821 835 877 880 893 913 928 971 1017 Palæontology 431 491
712 1591 Anthropology 1218 1310
Maps: 58 62 251 375 376 377 571 665 667 749 756 976 1202 1390
1526
- B61.** *Reports:* General 209 211 320 328 352 355 1017 1558 Minerals, rocks,
etc. 63 329
Maps: 58 756 1390 1526
- B62.** *Reports:* General 7 9 10 68 96 125 154 209 211 320 321 323 328
352 355 531 865 866 1017 1072 1107 1170 1186 1305 1451 1558
Minerals, rocks, etc. 7 8 9 10 96 155 297 329 662 821 869 880
913 1368 1503 Palæontology 11 431 438 440 684 Zoology 39 46
722 Botany 46
Maps: 58 80 756 1180 1390 1478 1526
- B63.** *Reports:* General 5 7 10 40 46 63 64 68 96 125 154 209 211 232
234 240 268 320 328 352 355 469 531 533 552 553 670 707 816
817 865 866 899 900 947 974 1017 1072 1107 1120 1144 1170 1190
1305 1451 1558 1581 1591 1616 Minerals, rocks, etc. 5 6 9 11
46 63 86 96 154 155 245 272 273 297 329 334 335 360 533 572
580 625 651 662 695 698 718 744 800 821 835 854 872 877 880

MAP
SUBDIVISION.

PUBLICATIONS.

- 882 893 913 928 958 971 974 1218 1359 Palaeontology 268 424
425 431 438 440 530 615 816 817 950 1218 1240 1240c 1359 1591
Zoology 46 Anthropology 1218 1310 1554 Geography, topography
52
Maps: 57 58 62 80 251 287 375 376 377 531a 531b 531c 533g 533h
534l 667 749 756 976 1154 1184 1202 1390 1478 1526
- B64.** *Reports:* General 5 7 8 9 64 68 83 125 154 240 268 328 469 531
552 553 670 865 866 899 900 974 1017 1072 1120 1144 1170 1186
1190 1218 1305 1359 1451 1581 Minerals, rocks, etc. 9 11 46 86
138 155 272 273 297 300 359 360 572 580 616 625 651 662 695
698 800 818 821 835 854 882 974 1218 Palaeontology 83 268 Zoo-
logy 46 Anthropology 1310 Geography, topography 52 670
Maps: 58 80 251 375 376 377 533g 534l 667 756 976 1180 1202
1390 1478
- B7.** *Reports:* General 7 68 125 269 321 323 330 531 532 552 553 816
817 865 866 1017 1072 1170 1186 1305 1342b 1451 Minerals, rocks,
etc. 297 835 880 913 Palaeontology 531 950 1359 Zoology 39 46
722 Botany 46 Anthropology 1218 1333 Geography, topography 52
Maps: 49 58 80 290 350 351 531d 558 559 756 1180 1390 1478
- C2.** *Reports:* General 89 761 762 899 900 959 1072 1110 1120 1160 1170
1218 1280 1451 1503 1616 Minerals, rocks, etc. 273 821 872 1616
Anthropology 1469
Maps: 159 314 585 760 1112 1177 1178 1282 1479 1609
- C3.** *Reports:* General 584 761 762 788 959 1017 1110 1305 1451 1503
1616 Minerals, rocks, etc. 138 616 695 882 Zoology 584 Botany
486 Anthropology 1310 1469
Maps: 585 702 760 1112 1282 1300 1479 1609
- C4.** *Reports:* General 83 216 584 788 923 1017 1110 1616 Minerals, rocks,
etc. 485 580 882 Zoology 584 Botany 486 Anthropology 1310
Maps: 585 702 918 1112
- C5.** *Reports:* General 39 83 84 211 320 352 355 431 460 584 899 900
1107 1451 1581 1616 1642 Minerals, rocks, etc. 297 333 821
Palaeontology 39 41 424 425 431 491 564 615 684 712 950 1240
1240c 1642 Zoology 39 584 Botany 486 Anthropology 1218 1310
Geography, topography 52
Maps: 45 58 585 702 756 1634
- C6.** *Reports:* General 39 211 216 320 352 355 460 584 716 717 899 900
1451 1616 1642 Minerals, rocks, etc. 297 359 616 662 Palaeontology
39 41 1642 Zoology 39 584 Botany 486 Anthropology 1310 Geo-
graphy, topography 52 Meteorology 216
Maps: 45 58 585 756 1634
- C7.** *Reports:* General 39 68 72 73 101 125 154 216 321 323 330 531
552 553 584 816 817 865 866 899 900 1017 1170 1451 1581 Minerals,
rocks, etc. 72 297 360 616 662 695 869 872 880 Palaeontology
564 684 1359 Zoology 39 46 584 722 Botany 46 486 Anthropology
1310 Meteorology 216 584
Maps: 45 49 58 80 350 531e 558 559 585 756
- C8.** *Reports:* General 2 3 73 101 114 125 147 154 167 241 291 293 531
552 553 584 816 817 899 900 1170 1218 1451 1581 Minerals, rocks,
etc. 46 63 155 272 297 744 821 854 880 882 913 Palaeontology
424 429 431 432 564 684 712 Zoology 46 584 722 Botany 46
453 486 Anthropology 1310 Geography, topography 52
Maps: 49 58 62 164 165 175 176 182 183 208 252 531j 531k 558
559 586 675 756 1478 1560.
- 9.** *Reports:* General 2 3 11 39 114 154 167 241 256 259 291 293 400
531 584 761 762 816 817 899 900 1107 1120 1218 1451 1581 Minerals,
rocks, etc. 63 156 246 297 335 360 572 580 662 698 821 854 880

MAP
SUBDIVISION.

PUBLICATIONS.

- 882 953 Palæontology 11 39 41 424 427 428 431 432 433 491
531 564 615 684 712 950 1240 1240c 1342 1342g 1359 1441 Zoology
39 46 584 722 1513 Botany 46 486 Anthropology 1310
Maps: 13 43 44 58 62 165 175 180 181 182 253 401 531f 531g 531h
531i 554 558 559 586 675 756 802 1478 1560
- C10.** *Reports:* General 11 291 293 584 761 762 Minerals, rocks, etc. 246
297 880 Palæontology 11 425 426 427 431 432 440 453 564 615
684 712 950 1441 Zoology 584 722 Botany 486
Maps: 13 62 181 554 558 559 586 756 1478 1560
- C11.** *Reports:* General 11 147 566 584 1359 1516 Minerals, rocks, etc.
148 334 662 835 880 958 Palæontology 11 425 427 431 432 564
684 712 950 1441 Zoology 584 722 Botany 147 486
Maps: 13 558 559 586 756 1373 1478 1560
- D2.** *Reports:* General 108 216 267 584 778 788 899 900 1503 1616 Min-
erals, rocks, etc. 108 Palæontology 108 Zoology 267 584 Botany
216 267 486 Anthropology 1310 Meteorology 267
Maps: 314 554 585 702 781 895 1609
- D3.** *Reports:* General 216 584 778 788 1305 1503 1616 Minerals, rocks,
etc. 616 695 Zoology 584 Botany 216 267 486 Anthropology 1310
Maps: 554 585 702 781 1284 1300
- D4.** *Reports:* General 83 84 216 584 788 923 1305 1616 Minerals, rocks,
etc. 485 Zoology 216 584 Botany 216 267 486 Anthropology 1310
Meteorology 216
Maps: 228 554 585 702 756 918 1284 1300
- D5.** *Reports:* General 83 84 216 584 923 Minerals, rocks, etc. 333 Zoology
216 584 Botany 216 267 486 Anthropology 1310 Geography, topo-
graphy 52 Meteorology 216
Maps: 228 554 585 756 918
- D6.** *Reports:* General 216 584 Minerals, rocks, etc. 869 Zoology 584 Botany
486 Anthropology 1310 Meteorology 216
Maps: 554 585 756 1560
- D7.** *Reports:* General 584 Minerals, rocks, etc. 616 Zoology 584 Botany
486 Anthropology 1310 Meteorology 584
Maps: 554 585 756 1560
- D8.** *Reports:* General 72 73 125 291 293 584 Minerals, rocks, etc. 72. 297
616 724 Zoology 584 Botany 486 Anthropology 1310
Maps: 58 554 586 756 1478 1560
- D9.** *Reports:* General 291 293 584 Minerals, rocks, etc. 297 Palæontology
431 Zoology 584 722 Botany 486 Anthropology 1310 Meteorology
584
Maps: 554 586 756 1478 1560
- D10.** *Reports:* General 11 72 291 293 584 Minerals rocks, etc. 72 485 869
Palæontology 431 491 684 950 1240 1240c Zoology 584 722 Botany
486 Anthropology 1310 Meteorology 584
Maps: 62 554 586 756 1478 1560
- D11.** *Reports:* General 584 Zoology 584 1616 Botany 486 Anthropology
1310
Maps: 554 586 756 1478 1560
- D12.** *Reports:* General 584 Zoology 584 722 1616 Botany 486 Anthropology
1310
Maps: 554 586 1478 1560
- D13.** *Reports:* General 167 291 293 584 Palæontology 431 Zoology 217 584
722 1616 Botany 486 Anthropology 1310
Maps: 554 586 1478 1560

MAP
SUBDIVISION.

PUBLICATIONS.

- E2. *Reports:* General 267 296 584 778 Minerals, rocks, etc. 580 724
872 Zoology 167 267 584 Botany 267 486 Anthropology 1310
Meteorology 267
Maps: 314 554 585 781 895
- E3. *Reports:* General 267 584 778 Minerals rocks, etc. 485 Zoology 584
Botany 486 Anthropology 1310 Meteorology 267
Maps: 314 554 585 781
- E4. *Reports:* General 584 Minerals, rocks, etc. 485 Zoology 584 Botany
486 Anthropology 1310
Maps: 554 585 1560
- E5. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Maps: 554 585 1560
- E6. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 554 585 1560
- E7. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 554 585 1560
- E8. *Reports:* General 125 584 Zoology 584 Botany 486 Anthropology 1310
Maps: 554 586 1560
- E9. *Reports:* General 584 Minerals, rocks, etc. 485 Zoology 584 Botany
486 Anthropology 1310 Meteorology 584
Maps: 554 586 1560
- E10. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 554 586 1560
- E11. *Reports:* General 584 Minerals, rocks, etc. 485 Zoology 584 Botany
486 Anthropology 1310 Meteorology 584
Maps: 554 586 1560
- E12. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Maps: 554 586 1560
- E13. *Reports:* General 167 584 Zoology 584 722 Botany 486 Anthropology
1310 1637
Maps: 554 586 1560
- F2. *Reports:* General 125 267 296 584 778 Minerals, rocks, etc. 108
138 724 872 Zoology 147 584 722 Botany 486 Anthropology 1637
Meteorology 267
Maps: 128 314 554 585 587 780 781 1560
- F3. *Reports:* General 125 267 584 778 Minerals, rocks, etc. 114 147
Zoology 167 584 Botany 486 Anthropology 1310 Meteorology 267
Maps: 128 314 554 585 587 758 780 781 785 1560
- F4. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Maps: 554 585 587 758 785 1560
- F5. *Reports:* Anthropology 1310
Maps: 554 585 587 758 785 1560
- F6. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 585 587 758 785 1560
- F7. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 554 585 587 758 785 1560
- F8. *Reports:* General 584 Minerals, rocks, etc. 485 572 580 Zoology 584
Botany 486 Anthropology 1310 Meteorology 584
Maps: 554 586 588 1560

MAP
SUBDIVISION.

PUBLICATIONS.

- F9.** *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
Meteorology 584
Maps: 554 586 588 1560
- F10.** *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1310
1637 Meteorology 584
Maps: 554 586 588 1560
- F11.** *Reports:* General 167 584 Minerals, rocks, etc. 616 Zoology 584 722
Botany 167 486 Anthropology 1310 1637 Meteorology 584
Maps: 554 586 588 1560
- F12.** *Reports:* General 167 584 Zoology 584 Botany 486 Anthropology 1310
1637 Meteorology 584 905
Maps: 554 586 588 1560
- F13.** *Reports:* General 167 584 Zoology 584 722 Botany 486 Anthropology
1637 Meteorology 584
Maps: 554 586 588 1560
- G1.** *Reports:* Anthropology 1637
Maps: 314 554 587 1560
- G2.** *Reports:* General 296 Anthropology 1637
Maps: 314 554 587 785 1560
- G3.** *Reports:* General 125 267 657 778 819 Minerals, rocks, etc. 138 297
414 724 835 Zoology 147 722 Anthropology 1637 Meteorology 267
Maps: 128 314 554 587 758 780 785 1560
- G4.** *Reports:* General 267 657 778 Anthropology 1637 Meteorology 267
Maps: 554 587 758 780 785 1560
- G5.** *Reports:* General 657 Minerals, rocks, etc. 485 Anthropology 1310 1637
Maps: 554 587 758 785 1560
- G6.** *Reports:* General 657 Anthropology 1310 1637
Maps: 554 587 699 758 785 1560
- G7.** *Reports:* General 584 657 Minerals, rocks, etc. 485 572 580 Zoology
584 Botany 486 Anthropology 1310 1637 Meteorology 584
Maps: 554 587 699 758 785 1560
- G8.** *Reports:* Anthropology 1310 1637
Maps: 554 588 699 1560
- G9.** *Reports:* Anthropology 1310 1637
Maps: 554 558 699 1560
- G10.** *Reports:* Anthropology 1310 1637 Meteorology 905
Maps: 554 588 1560
- G11.** *Reports:* General 167 Minerals, rocks, etc. 272 Zoology 167 Botany
167 Anthropology 1637
Maps: 554 588 1560
- H1.** *Reports:* General 217 296 584 Minerals, rocks, etc. 246 Zoology 584
Botany 486 Anthropology 1637
Maps: 299 554 587 758 779 785 906 1560
- H2.** *Reports:* General 125 217 296 584 778 Minerals, rocks, etc. 724 Zoology
147 584 Botany 486 Anthropology 1637
Maps: 128 229 554 587 758 779 780 785 906 1560
- H3.** *Reports:* General 584 778 Zoology 584 Botany 486 Anthropology 1637
Maps: 554 587 758 779 780 785 906 1560
- H4.** *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1637
Maps: 554 587 758 785 906 1560
- H5.** *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1637
Maps: 554 587 699 758 785 906 1560

MAP
SUBDIVISION.

PUBLICATIONS.

- H6. *Reports:* General 584 Zoology 584 Botany 486 Anthropology 1637
Maps: 554 587 699 758 785 906 1560
- H7. *Reports:* General 584 657 680 Minerals, rocks, etc. 651 Zoology 584
722 Botany 486 Anthropology 1637 Meteorology 584
Maps: 554 587 699 758 785 906 1560
- H8. *Reports:* General 680 Zoology 722 Anthropology 1637 Meteorology 584
Maps: 554 588 699 906 1560
- H9. *Reports:* General 584 680 899 900 Zoology 584 722 Botany 486
Anthropology 1310 1637 Meteorology 584
Maps: 554 588 699 906 1560
- H10. *Reports:* General 167 217 584 905 Minerals, rocks, etc. 246 Zoology
584 722 Botany 167 217 486 Anthropology 1637 Meteorology 905
Maps: 554 588 906 1560
- I1. *Reports:* Anthropology 1637
Maps: 587 758 779 785 906 1560
- I2. *Reports:* General 296 778 Minerals, rocks, etc. 724 Anthropology 1637
Maps: 587 758 779 785 906 1560
- I3. *Reports:* General 778 Zoology 722 Anthropology 1637
Maps: 587 758 779 785 906 1560
- I4. *Reports:* Anthropology 1637
Maps: 587 758 785 906 1560
- I5. *Reports:* General 680 713 905 Minerals, rocks, etc. 651 Zoology 167
722 Botany 905 Anthropology 1637
Maps: 587 699 758 785 906 1560
- I6. *Reports:* General 167 217 296 680 905 Minerals, rocks, etc. 246 651
Zoology 167 217 722 Botany 167 Anthropology 1637
Maps: 587 699 758 785 906 1560
- I7. *Reports:* General 680 713 905 Minerals, rocks, etc. 651 Zoology 722
Anthropology 1637
Maps: 554 587 699 758 785 906 1560
- I8. *Reports:* General 713 905 Anthropology 1637
Maps: 554 588 699 758 785 906 1560
- I9. *Reports:* General 167 217 296 584 899 900 905 Minerals, rocks, etc.
246 Palæontology 905 954 Zoology 167 217 584 722 905 Botany
167 217 486 905 Anthropology 1637 Meteorology 584 905
Maps: 554 588 699 906 1560
- J1. *Reports:* Anthropology 1637
Maps: 758 779 785 906 1560
- J2. *Reports:* General 296 778 Zoology 217 Anthropology 1637
Maps: 758 779 785 906 1560
- J3. *Reports:* General 167 217 296 778 899 900 905 Minerals, rocks, etc.
724 Zoology 167 217 905 Botany 167 Anthropology 1637 Meteor-
ology 905
Maps: 758 779 785 906 1560
- J4. *Reports:* General 899 900 905 1170 Anthropology 1637
Maps: 699 758 785 906 1560
- J5. *Reports:* General 899 900 905 Anthropology 1637
Maps: 699 758 785 906 1560

QUEBEC.

REPORTS.

(Divisions on the index map which include areas referred to in the report are given after each title.)

2. On the geology of the Chat and Cascapedia rivers, Gaspé, and part of Chaleur bay. By W. E. Logan. (C8, C9.) p. 5
2. On the geology of the Bonaventure river. By A. Murray (C9.) p. 5
2. Appendix. Geological sections on Chaleur bay and coast of Gaspé. By W. E. Logan. Sections Nos. 2, 3, 4, 5, 6, 7, 8. (C9.) p. 5
3. On the topography and geology of the Ottawa river and some of its tributaries, with notes on economic minerals; tables of levels of the Ottawa river to lake Timiskaming, the Mattawa river to lake Nipissing, lake Nipissing to lake Huron; and meteorological register kept at lake Timiskaming, 1843-44 and 1844-45. By W. E. Logan. (A3, A4, A51, B2, B3.) p. 6
3. On the topography and geology of the Matane, Ste. Anne, and St. John rivers, Gaspé. By A. Murray. (C8, C9.) p. 6
3. Appendix. List of various mineral springs met with or reported as existing on the Ottawa and its tributaries, arranged under the heads of sulphurous, saline, and chalybeate. With analyses of iron and lead ores and mineral waters by T. S. Hunt. By W. E. Logan. (A4, A51.) p. 6
5. On the geology of the country on the south side of the St. Lawrence extending from the vicinity of Montreal and lake Champlain to the Chaudière river, with notes on the economic minerals. By W. E. Logan. (A51, A52, A61, B63, B64.) See also No. 469. p. 6
5. On the examination of various minerals, ores, and mineral waters along the Ottawa river, with analyses. By T. S. Hunt. (A3, A4, A52, B63.) p. 6
6. On mineral springs in the valleys of the St. Lawrence and Richelieu; minerals and metallic ores from lake Huron and Eastern Townships, with analyses. By T. S. Hunt. (A51, A52, B54, B63.) p. 7
7. On the geology of the vicinity of bay St. Paul and Murray bay; and of the Eastern Townships from the Chaudière river to the Temiscouata Portage road, with notes on economic minerals. By W. E. Logan. (A52, B54, B62, B63, B64, B7.) See also No. 399. p. 7
7. On soils of localities along the Richelieu and Yamaska rivers, and of Brantford and Chatham; clays from London and Niagara; mineral springs, peat, minerals, and metallic ores; with analyses. By T. S. Hunt. (A51, A52, B62.) p. 7
8. On the gold of the Chaudière river and rivière du Loup, and various localities between lake Etchemin and Sherbrooke, Quebec. By W. E. Logan. (A52, A61, A62, B64.) See also No. 399. p. 7
8. On minerals from Leeds, Lanark, and Carleton counties, Ontario; Grenville and Calumet island, Quebec; and mineral waters from various localities in Ontario and Quebec; with analyses. By T. S. Hunt. (A3, A4, A51, B53, B62.) p. 7
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QUEBEC.

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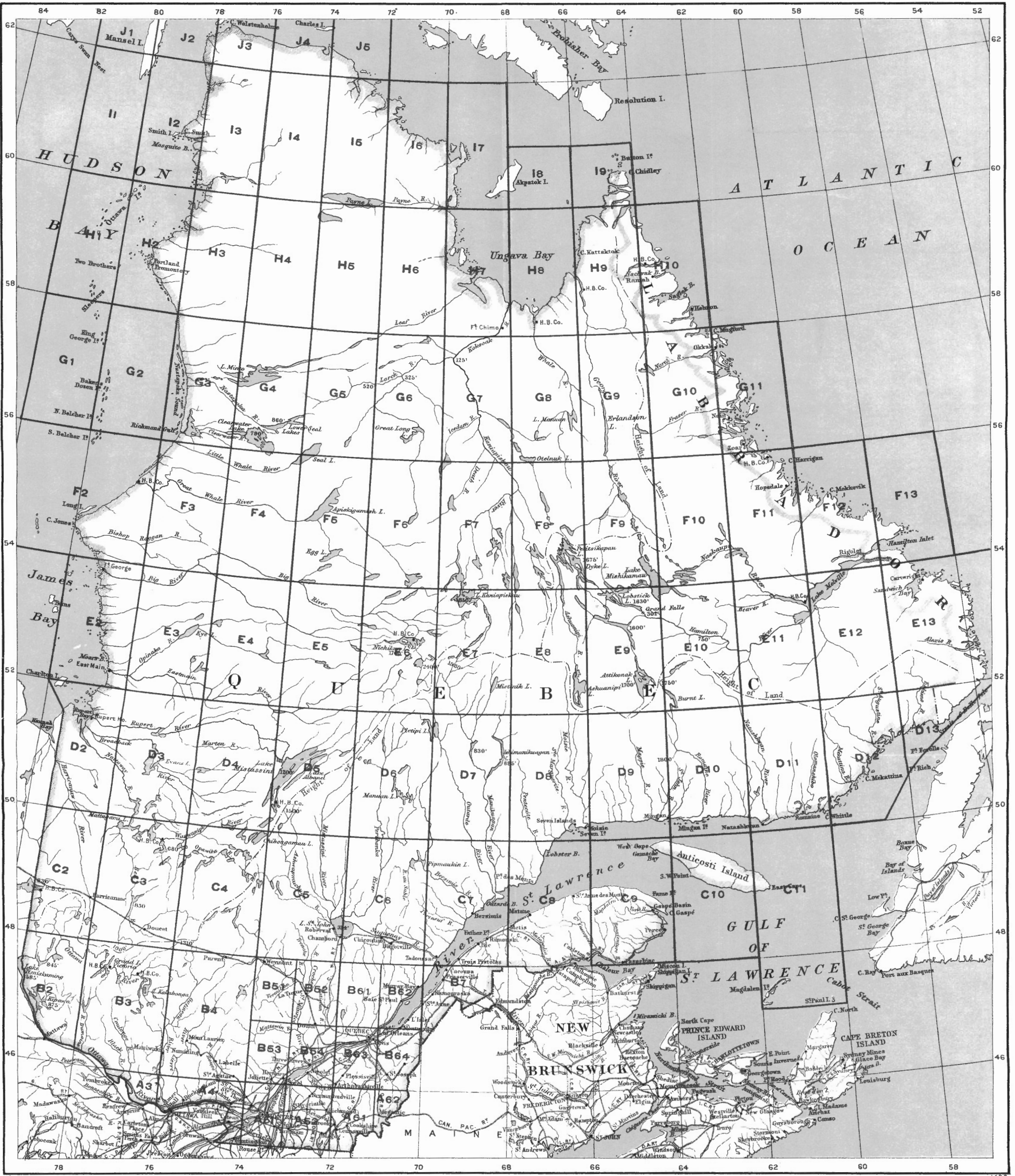
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- NOTE: The Geological Survey prepared a map, which is first noted in the list of publications of the Geological Survey of Canada for 1884, as "A topographical map of the Eastern Townships (in four sheets) embracing an area of 26,121 square miles, from St. Jérôme and Lake of the Two Mountains, on the west, to New Hampshire and Maine boundary, on the east, and from latitude 45° to 47° 50' north. Scale: 4 miles to an inch." It is the geographical basis for maps Nos. 251, 375, 571, and 665. Two editions of it have been published, by permission of the Director, from transfers from the original plates, one by Walker & Miles in 1875, and the other, by Dawson Bros. in 1886. See also Report of Progress for 1874-75, pp. 6-7.
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Geological Survey, Canada

1401

New Brunswick
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To accompany Catalogue of Publications.

NOVA SCOTIA AND PRINCE EDWARD ISLAND.

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B4.	<i>Reports:</i> General 83 243 257 291 320 404 552 553 632 644 690 691 716 717 816 817 865 866 899 900 1072 1120 1173 1359 Minerals, rocks, etc. 86 245 272 300 301 334 335 359 360 404 572 602 625 662 695 698 718 744 800 880 893 928 971 1072 Zoology 722 Anthropology 1310 <i>Maps:</i> 382 551 558 559 565 592 611 624 646 647 648 757 773 927 945 1153 1185 1208 1373 1478
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- C3.** *Reports:* General 83 89 94 218 243 291 320 321 323 331 352 353
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650 757 801 833 843 927 1153 1185 1208 1373 1396 1397 1478
- C5.** *Reports:* General 94 147 167 243 404 532 552 553 632 644 716
717 816 817 865 866 953 1021 1107 1113 1120 1173 1359 1388 1398
1503 Minerals, rocks, etc. 86 114 138 148 156 222 245 272 300 301
334 335 359 360 404 572 580 602 625 662 673 674 695 698 718
724 744 800 821 835 877 880 882 893 913 928 953 958 971
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383 384 385 386 387 388 389 532f 558 559 649 656 757 801 832
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953 1021 1113 1359 1388 Minerals, rocks, etc. 86 114 148 156 169
245 273 299 301 334 335 359 360 613 614 616 625 662 673 674
695 724 821 835 872 877 880 882 953 958 Palæontology 761 762
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1072 1107 1113 1218 1359 1388 Minerals, rocks, etc. 86 94 114
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644 651 662 673 674 695 698 718 724 744 800 821 835 872 877 880
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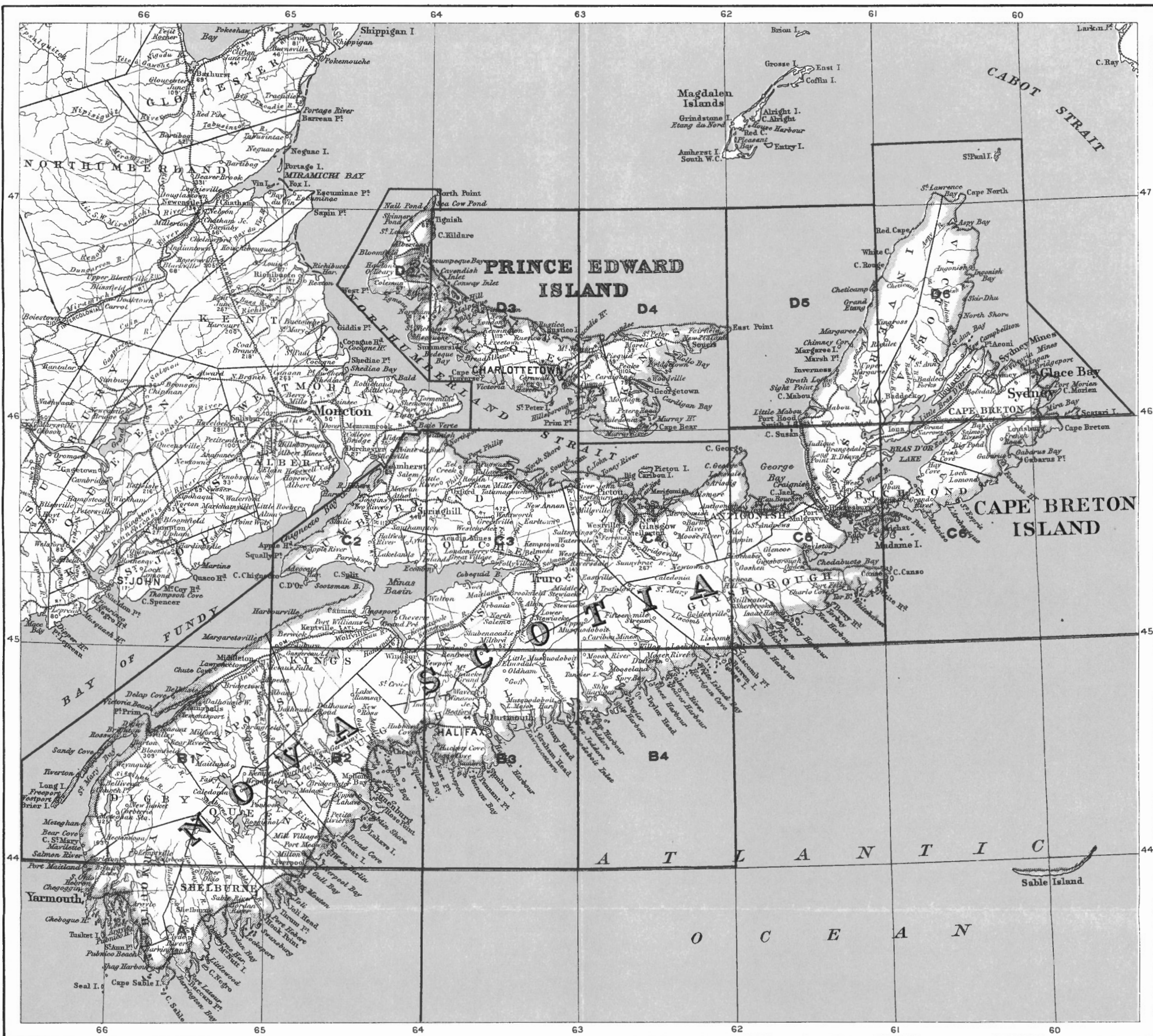
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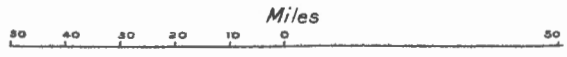
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Geological Survey, Canada.

Nova Scotia and Prince Edward Island
 Subdivisions referred to in
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To accompany Catalogue of Publications.

PART XVIII.
PUBLICATIONS ARRANGED ACCORDING TO
AUTHORS.

PART XVIII.

PUBLICATIONS ARRANGED ACCORDING TO AUTHORS.

Reports in this list referred to part A of a volume are also to be found in the corresponding blue-book form of the Summary Report of which part A is the reprint. In part I of this catalogue preliminary reports of work on which a final report was issued, previous to 1901, are referred to under that report but are not listed in the contents of the Summary Report in which they appear. In the following list all preliminary reports are included.

Adams, Frank Dawson (See also under **Hoffmann**, and in Appendix.)

155. Notes on the microscopic structure of some rocks of the Quebec group. (Appendix to part A, Report of Progress, 1880-82.)
 Summary of an examination of the anorthosite area north and east of lake St. John, Quebec. (In part A (for 1884), Annual Report, 1885.)
 Note on work in portions of Terrebonne, Montcalm, and Two Mountains counties, Quebec. (Selwyn, in part A (for 1885), Annual Report 1885.)
 Summary of explorations in portions of Montcalm and Joliette counties included in the northwest quarter-sheet (map No. 665) of the Eastern Townships map. (In part A (for 1887), Annual Report, 1887-88.)
 Summary of explorations in portions of Joliette, Berthier, Maskinongé, and St. Maurice counties included in the northwest quarter-sheet (map No. 665) of the Eastern Townships map. (In part A (for 1888), Annual Report, 1887-88.)
262. Notes on the lithological character of some of the rocks collected in the Yukon district and adjacent northern portion of British Columbia. (Appendix V to part B, Annual Report, 1887-88.)
 Summary of an examination of the portion of the St. Maurice district, Quebec, included in the northwest sheet (map No. 665) of the Eastern Townships map. (In part A, Annual Report, 1888-89.)
 Summary of an examination of the Morin anorthosite area lying to the north of the island of Montreal. (In part AA (for 1891), Annual Report, 1890-91.)
357. Preliminary report on the geology of a portion of central Ontario situated in the counties of Victoria, Peterborough, and Hastings, together with the results of an examination of certain ore deposits occurring in the region. (Part J, Annual Report, 1892-93.)
579. Report on a portion of the province of Quebec comprised in the south-west sheet of the "Eastern Townships" map (Montreal sheet). By R. W. Ells. With a chapter on the Laurentian north of the St. Lawrence river, by F. D. Adams. (Part J, Annual Report, 1894.) See also No. 484.
591. Report on the geology of a portion of the Laurentian area lying to the north of the island of Montreal. (Part J, Annual Report, 1895.)
 Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With A. E. Barlow. In part A, Annual Report 1896.)
 Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With A. E. Barlow. In part A, Annual Report, 1897.)
 Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With A. E. Barlow. In part A, Annual Report, 1898.)

- Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With A. E. Barlow. In part A, Annual Report, 1899.)
- Haliburton and Bancroft areas, Ontario. (In part A, Annual Report, 1901.)
863. The artesian and other deep wells on the island of Montreal. (With O. E. LeRoy. Part O, Annual Report, 1901.)
- Report of the special committee for the Lake Superior region. (With R. Bell, C. R. Van Hise, C.K. Leith, and A. C. Lane. On the nomenclature and correlation of the geological formations of the United States and Canada. Addressed to the general committee on the relations of the Canadian and the United States Geological Surveys. Synopsis by R. Bell, in part A, Annual Report, 1904.)
1082. Memoir No. 6. Geology of the Haliburton and Bancroft areas, province of Ontario. (With A. E. Barlow.)
- The Haliburton-Bancroft area of central Ontario. (With A. E. Barlow. Guide Book No. 2.)
- The Morin anorthosite area. (Guide Book No. 3.)
- The Monteregian hills. (Guide Book No. 3.)
- Alcock, Frederick James**
- Geology of the north shore of lake Athabaska, Alberta and Saskatchewan. (No. [xiii], Summary Report, 1914.)
- Lower Churchill River region, Manitoba. (No. [xix], Summary Report, 1915.)
- Allan, John Andrew**
- Saltspring island, and east coast of Vancouver island. (No. [v], Summary Report, 1909.)
- Ice River district, British Columbia. (No. [ix], Summary Report, 1910.)
- Geology of Field map-area, Yoho park, B.C. (No. [xii], Summary Report, 1911.)
- Rocky Mountain section between Banff, Alta., and Golden, B.C., along the Canadian Pacific railway. (No. [xiii], Summary Report, 1912.)
- Rocky mountains (Bankhead to Golden.) (Guide Book No. 8, part II.)
1370. Memoir No. 55. Geology of Field map-area, B.C. and Alberta.
- Rocky Mountains park, Alberta. (No. [vii], Summary Report, 1914.)
- Simpson pass to Kananaskis, Rocky Mountains park, Alberta. (No. [x], Summary Report, 1915.)
- Ami, Henry Marc** (See also in Appendix.)
- Systematic list of fossils, with localities as referred to in this report, exclusive of those species obtained in the limestone conglomerate bands. (Appendix to part K, Annual Report, 1887-88.)
- Field-work in the Selkirk and Rocky mountains, British Columbia and Alberta. (Whiteaves, in part AA (for 1891), Annual Report, 1890-91.)
483. Preliminary lists of the organic remains occurring in the various geological formations comprised in the south-west quarter-sheet map of the Eastern Townships of the province of Quebec. (Appendix to part J, Annual Report, 1894.)
- Notes on work in Nova Scotia. (Whiteaves, in part A, Annual Report, 1897.)
- On some Cambro-Silurian and Silurian fossils from lake Timiskaming, lake Nipissing, and Mattawa outliers. (Appendix II to part I, Annual Report, 1897. Also with second edition No. 962.)
- Notes on geological and palaeontological investigations in the Duck islands and portions of Grand Manitoulin island, lake Huron, Ontario; and in the vicinity of Minas basin, Kings, Cumberland, and Colchester counties, and at McCara brook, Antigonish county, Nova Scotia. (In part A, Annual Report, 1898.)

- Summary of work, chiefly palæontological, in Nova Scotia and New Brunswick, including notes by R. Kidston, D. White, T. R. Jones, H. Woodward, and A. S. Woodward on fossils submitted to them. (Whiteaves, in part A, Annual Report, 1899).
490. Preliminary lists of the organic remains occurring in the various geological formations comprised in the map of the Ottawa district, including formations in the provinces of Quebec and Ontario, along the Ottawa river. (Appendix to part G, Annual Report, 1899.)
- List of fossils obtained from the several formations along the Ottawa river, pertaining to the report on sheet No. 121, Quebec and Ontario (Grenville sheet). (Appendix to part J, Annual Report, 1899.)
- Notes on the geological formations at Arisaig, Antigonish county, Nova Scotia. (In part A, Annual Report, 1900.)
- Artesian wells, palæontology, archæology, bibliographies, etc. (Summary of the work of the year. -In part A, Annual Report, 1901.)
495. Preliminary lists of fossil organic remains from the Potsdam, Beekmantown (Calcareous), Chazy, Black River, Trenton, Utica, and Pleistocene formations comprised within the Perth sheet (No. 119) in eastern Ontario. (Appendix to part J, Annual Report, 1901.)
- Palæontology and chronological geology. (Summary of the work of the year. In part A (for 1902), Annual Report, 1902-03.)
- Preliminary list of the fossils collected by Professor L. W. Bailey from various localities in the province of New Brunswick during 1904. (Appendix to summary report by L. W. Bailey in part A, Annual Report, 1904.) See also No. 493.
- Notes on a collection of organic remains from the ferruginous and friable shales of Messenger brook, Torbrook, near county-line between Kings and Annapolis, south of Kingston, in Kings county, Nova Scotia, collected Nov. 24th, 1902, by Hugh Fletcher. (Appendix II to part A, Annual Report, 1904.) See also No. 493.
- Description of a species of *Bythotrephis* from the dark-gray calcareous and indurated slates collected by Mr. J. B. Tyrrell from a locality along the Unihani river, seven miles north of Dalton's Post, Yukon district, Canada. (Appendix III to part A, Annual Report, 1904.) See also No. 493.
- Determinations of fossil plants from various localities in British Columbia and the North-West Territories, by Professor D. P. Penhallow of McGill University, Montreal, with notes on the geological horizons indicated, by H. M. Ami. (Appendix IV to part A, Annual Report, 1904.) See also No. 493.
- Preliminary list of organic remains from Beechy island, Lancaster sound, in the district of Franklin. (In Appendix IV to No. 905.)
- Preliminary lists of the species of organic remains from blocks of limestone from Southampton island. (In Appendix IV to No. 905.)
- Preliminary list of organic remains from loose blocks of limestone, cape Chidley. (In Appendix IV to No. 905.)
- Palæontology and zoology. (Summary of the work of the year. No. [xxiii], Summary Report, 1906.)
- Preliminary lists of organic remains from the Chazy, Black River, Trenton, and Pleistocene formations comprised within the area of the Pembroke sheet (No. 122) [Ont. and Que.] (Appendix to No. 977.)
- Invertebrate palæontology. (Summary of the work of the year, including field-work. No. [xxvii], Summary Report, 1908.)
- Anderson, Rudolph Martin**
- Biological division. Zoology. Canadian Arctic Expedition, 1913-14. (Summary Report, 1914.)
- Canadian Arctic Expedition, 1915. (Summary Report, 1915.) See also No. 1575.

Biological division. Zoology. Canadian Arctic Expedition. (Zoological extracts from above general report.) (Summary Report, 1915.) See also No. 1575.

Armit, W.

Moose Factory. Dates of the arrivals of the Hudson's Bay Company's vessels at Moose Factory, and of their sailings, for 147 years—1735 to 1880, both inclusive. (Appendix X to part C, Report of Progress, 1879-80.)

Ashe, Edward David

On the longitude of some of the principal places in Canada, as determined by electric telegraph in the years 1856-57. [Quebec, Toronto, Kingston, Montreal, Windsor, Collingwood, and Ottawa.] (Report of Progress, 1857.)

Bailey, Loring Woart

Preliminary report on the geology of southern New Brunswick. (With G. F. Matthew. Report of Progress, 1870-71.)

Report of progress of geological investigations in New Brunswick. (Report of Progress, 1871-72.)

Report of observations on the Carboniferous system of New Brunswick, in the counties of Queens, Sunbury, and a portion of York. (With G. F. Matthew and R. W. Ells. Report of Progress, 1872-73.)

Summary report of geological observations in New Brunswick. (With G. F. Matthew. Report of Progress, 1874-75.)

Report of geological observations in southern New Brunswick. (With G. F. Matthew and R. W. Ells. Report of Progress, 1875-76.)

Report on the Lower Carboniferous belt of Albert and Westmorland counties, N.B., including the "Albert shales." (With R. W. Ells. Report of Progress, 1876-77.)

Report on the pre-Silurian (Huronian) and Cambrian or primordial Silurian rocks of southern New Brunswick, 1877-78. (Part DD, Report of Progress, 1877-78.)

137. Report on the geology of southern New Brunswick, embracing the counties of Charlotte, Sunbury, Queens, Kings, St. John, and Albert, 1878-79. (With G. F. Matthew and R. W. Ells. Part D, Report of Progress, 1878-79.)

Report of explorations and surveys in portions of York and Carleton counties, New Brunswick, 1884. (Part G, Report of Progress, 1882-84.)

Summary of work in northwestern New Brunswick. (In part A (for 1885), Annual Report, 1885.)

219. Report of explorations and surveys in portions of the counties of Carleton, Victoria, York, and Northumberland, New Brunswick, 1885. (Part G Annual Report, 1885.)

Summary of work in northern New Brunswick. (In part A, Annual Report, 1886.)

242. Report on explorations in portions of the counties of Victoria, Northumberland, and Restigouche, New Brunswick. (With W. McInnes. Part N, Annual Report, 1886.)

Summary of work in New Brunswick and Quebec. (With W. McInnes. Selwyn, in part A (for 1888), Annual Report, 1887-88.)

269. Report on explorations and surveys in portions of northern New Brunswick and adjacent areas in Quebec and in Maine, U.S. (With W. McInnes. Part M, Annual Report, 1887-88.)

Summary of work in northern New Brunswick and Quebec. (In part A, Annual Report, 1888-89.)

Summary of work in Rimouski and Temiscouata counties, Quebec. (In part A (for 1890), Annual Report, 1890-91.)

Summary of work in southwestern Nova Scotia. (In part AA (for 1891), Annual Report, 1890-91.)

330. Report on portions of the province of Quebec and adjoining areas in New Brunswick and Maine, relating more especially to the counties of Temiscouata and Rimouski, Que. (With W. McInnes. Part M, Annual Report, 1890-91.)
Summary of work in southwestern Nova Scotia. (In part AA (for 1893, Annual Report, 1892-93.)
358. Preliminary report on geological investigations in south-western Nova Scotia. (Part Q, Annual Report, 1892-93.)
Summary of work in Yarmouth and Digby counties, Nova Scotia. (In part A, Annual Report, 1895.)
Summary of work in southwestern Nova Scotia. (In part A, Annual Report, 1896.)
628. Report on the geology in south-west Nova Scotia, embracing the counties of Queens, Shelburne, Yarmouth, Digby, and part of Annapolis. (Part M, Annual Report, 1896.)
Summary of investigations of the mineral resources of New Brunswick. (In part A, Annual Report, 1897.)
661. The mineral resources of the province of New Brunswick. (Part M, Annual Report, 1897.)
Summary of investigations of the mineral resources and geology of New Brunswick. (In part A, Annual Report, 1898.)
Summary of work in New Brunswick, including the collection of economic minerals. (In part A, Annual Report, 1899.)
Summary of work in York and Carleton counties, New Brunswick. (In part A, Annual Report, 1900.)
799. Report upon the Carboniferous system of New Brunswick with special reference to workable coal. (Part M, Annual Report, 1900.)
New Brunswick. (Summary of the season's work. In part A, Annual Report, 1901.)
Geological observations in northern New Brunswick. (In part A (for 1902), Annual Report, 1902-03.)
Fossil occurrences and certain economic minerals in New Brunswick. (In part A, Annual Report, 1904.)
- Baker, Manley Benson**
Mineral deposits near Kingston, Ontario. (Guide Book No. 2.)
Clay deposits and works near Toronto. (Guide Book No. 6.)
- Bancroft, James Austen**
Report on that portion of the coast of British Columbia extending from Powell river to Kingcome inlet, including the adjacent islands. (No. [ii], Summary Report, 1907.)
1188. Memoir No. 23. Geology of the coast and islands between the strait of Georgia and Queen Charlotte sound, B.C.
- Bancroft, Merle Fowler**
District east of Kootenay lake [British Columbia]. (No. [viii], Summary Report, 1915.)
- Barbeau, Charles Marius** (See also in Appendix.)
Anthropological division. Part I. Ethnology. (a) On Huron work, 1911. (In No. [xxxviii], Summary Report, 1911.) See also No. 1218b.
Anthropological division. Part I. Ethnology and Linguistics. On Iroquoian field-work, 1912, and, On interior Salish work, 1912. (Summary Report, 1912.) See also No. 1305c.
1322. Memoir No. 46. Classification of Iroquoian radicals with subjective pronominal prefixes.
1554. Memoir No. 80. Huron and Wyandot mythology, with an appendix containing earlier published records.
- Barlow, Alfred Ernest** (See also in Appendix.)
On the nickel and copper deposits of Sudbury, Ont. (Special paper reprinted in part S, Annual Report, 1890-91.)

- Summary of work in the area of the Nipissing sheet (map No. 131), Ontario. (In part A, Annual Report, 1894.)
- Summary of work in the area of the Timiskaming sheet (map No. 138), Ontario. (In part A, Annual Report, 1895.)
- Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With F. D. Adams. In part A, Annual Report, 1896.)
- Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario, including observations on the occurrence of corundum in Hastings, Renfrew, and Peterborough counties. (With F. D. Adams. In part A, Annual Report, 1897.)
672. Report on the geology and natural resources of the area included by the Nipissing and Timiskaming map-sheets, comprising portions of the district of Nipissing, Ontario, and of the county of Pontiac, Quebec. (Part I, Annual Report, 1897.) See also second edition, No. 962.
- Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With F. D. Adams. In part A, Annual Report, 1898.)
- Summary of work in the Haliburton and Bancroft map-areas (maps Nos. 708 and 770), Ontario. (With F. D. Adams. In part A, Annual Report, 1899.)
- Descriptions of rocks collected in 1900 by J. Macintosh Bell, in Great Bear Lake district and thence to Great Slave lake. (Appendix to part C, Annual Report, 1899.)
- Microscopic examination of sections of rocks associated with the iron-ore deposits of the Kingston and Pembroke Railway district. (Appendix A to part I, Annual Report, 1899.)
- Summary of work in the Muskoka, Haliburton, and Bancroft districts, Ontario. (In part A, Annual Report, 1900.)
- The Sudbury district. (In part A, Annual Report, 1901.)
873. Report on the origin, geological relations, and composition of the nickel and copper deposits of the Sudbury mining district, Ontario, Canada. (Part H, Annual Report, 1901.) See also revised reprint No. 961.
- The Sudbury mining district. (In part A (for 1902), Annual Report, 1902-03.)
- The Timagami district. (In part AA (for 1903), Annual Report, 1902-03.)
- On corundum in Ontario, and on surveys near lake Timagami. (In part A, Annual Report, 1904.)
- On the Quebec side of lake Timiskaming. (No. [xiv], Summary Report, 1906.) See also No. 1064.
1082. Memoir No. 6. Geology of the Haliburton and Bancroft areas, province of Ontario. (With F. D. Adams.)
1022. Memoir No. 57. Corundum, its occurrence, distribution, exploitation, and uses.
- The Haliburton-Bancroft area of central Ontario. (With F. D. Adams. Guide Book No. 2.)
- The nepheline and alkali syenites of the Port Coldwell area. (Guide Book No. 8, part I.)
- Barlow, Scott**
- Work in the Springhill coal-field, Nova Scotia, 1870. (Selwyn, in summary report, Report of Progress, 1870-71.)
- Work in the Springhill coal-field, Nova Scotia, 1871. (Selwyn, in summary report, Report of Progress, 1871-72.)
- Report on the exploration and survey of the Springhill coal-field, Cumberland county, Nova Scotia. (Report of Progress, 1873-74.)
- Report of progress in the exploration and survey of the coal-fields of Cumberland county, Nova Scotia. (Report of Progress, 1875-76.)

Bartsch, Paul

1143. Memoir No. 14. New species of shells collected by John Macoun at Barkley sound, Vancouver island, British Columbia. (With W. H. Dall.)
1240. Museum Bulletin No. 1. XIV. New species of mollusks from the Atlantic and Pacific coasts of Canada. (With W. H. Dall.) See also No. 1240h.

Bateman, Allan Mara

- Geology of Fraser canyon and vicinity, B.C. Siwash Creek area. (No. [vi], Summary Report, 1911.)
- Exploration between Lillooet and Chilko lake, British Columbia. (No. [xiv], Summary Report, 1912.)
- Lillooet map-area, British Columbia. (No. [xv], Summary Report, 1912.)

Bather, Francis Arthur

1240. Museum Bulletin No. 1.
I. The Trenton crinoid, *Ottawacrinus* (W. R. Billings).
II. Note on *Meroocrinus* (Walcott).
See also No. 1240a.

Bauerman, Hilary

- Report on the geology of the country near the forty-ninth parallel of north latitude west of the Rocky mountains. From observations made in 1859-1861. (Part B, Report of Progress, 1882-84.)

Bayley, William Shirley

545. Notes of microscopical examinations of rocks from the Thunder Bay silver district. (Appendix I to part H, Annual Report, 1887-88.)

Bean, Tarleton Hoffman

- Fishes, determined from photographs. (In Appendix IV to part B, Annual Report, 1887-88.)

Bell, James Macintosh

- Summary of an exploration of Great Bear lake and of a route between it and Great Slave lake. (In part A, Annual Report, 1900.)

725. Report on the topography and geology of Great Bear lake, and of a chain of lakes and streams thence to Great Slave lake. (Part C, Annual Report, 1899.)

Bell, John

77. On the plants of the Manitoulin islands. (Includes also some from Owen Sound, Bruce Mines, etc.) (Appendix to Report of Progress, 1866-69.)

Bell, Robert

- On the fauna of portions of the lower St. Lawrence, Magdalen, and Saguenay rivers, and lake St. John. (Report of Progress, 1857.)

- Catalogue of animals and plants collected and observed on the southeast side of the St. Lawrence, from Quebec to Gaspé, and in the counties of Rimouski, Gaspé, and Bonaventure. (Appendix V to Report of Progress, 1858.)

- On the geology of Grand Manitoulin island and the smaller islands immediately adjacent. (Report of Progress, 1863-66.)

- On the topography, geology, and economic materials of the Manitoulin Island group. (Report of Progress, 1866-69.)

74. Report on the geology of the northwest side of lake Superior, and of the Nipigon district. (Report of Progress, 1866-69.)

- Report on the country north of lake Superior, between the Nipigon and Michipicoten rivers. (Report of Progress, 1870-71.)

- Report on the country between lake Superior and the Albany river. (Report of Progress, 1871-72.)

- Report on the country between lake Superior and lake Winnipeg. (Report of Progress, 1872-73.)

- Report on the country between Red river and the South Saskatchewan,

- with notes on the geology of the region between lake Superior and Red river. (Report of Progress, 1873-74.)
- Report on the country west of lakes Manitoba and Winnipegosis, with notes on the geology of lake Winnipeg. (Report of Progress, 1874-75.)
- Report on an exploration in 1875 between James bay and lakes Superior and Huron. With postscript on rock specimens from the east coast of Hudson bay. (Report of Progress, 1875-76.)
- Report on geological researches north of lake Huron and east of lake Superior. (Report of Progress, 1876-77.)
- Report on an exploration of the east coast of Hudson bay, 1877. (Part C, Report of Progress, 1877-78.)
- Report on the country between lake Winnipeg and Hudson bay, 1878. (Part CC, Report of Progress, 1877-78.)
136. Report on explorations on the Churchill and Nelson rivers, and around Gods and Island lakes, 1879. (Part C, Report of Progress, 1878-79.)
- Report on Hudson bay and some of the lakes and rivers lying to the west of it. (Part C, Report of Progress, 1879-80.)
- Reports on the geology of the basin of Moose river and of the Lake of the Woods and adjacent country. 1881. (Part C, Report of Progress, 1880-82.)
- Summary of explorations on Lake of the Woods, and Wabigoon lake to Red lake, via lac Seul, Ontario, and on lake Winnipeg and Winnipeg river. (In director's summary report for 1883, Annual Report, 1882-84.)
- Report on part of the basin of the Athabaska river, North West Territory. (Part CC, Report of Progress, 1882-84.)
- Observations on the geology, mineralogy, zoology, and botany of the Labrador coast, Hudson strait and bay. (Part DD, Report of Progress, 1882-84.)
- Summary of work in Hudson strait and bay. (In part A (for 1885), Annual Report, 1885.)
217. Observations on the geology, zoology, and botany of Hudson strait and bay, made in 1885. (Part DD, Annual Report, 1885.)
- Summary of explorations of portions of the Attawapiskat and Albany rivers, Ontario. (In part A, Annual Report, 1886.)
239. Report on an exploration of portions of the Attawapiskat and Albany rivers, Lonely lake to James bay. 1886. (Part G, Annual Report, 1886.)
- Summary of explorations in the Timiskaming and Abitibi districts, Ontario and Quebec. (In part A (for 1887), Annual Report, 1887-88.)
- Summary of explorations in the Sudbury and Nipissing districts, Ontario. (In part A (for 1888), Annual Report, 1887-88.)
- Summary of explorations in the Sudbury district, Ontario. (In part A, Annual Report, 1888-89.)
- Summary of explorations in the Sudbury district, Ontario. (In part A (for 1890), Annual Report, 1890-91.)
- Summary of explorations in the area of the French River sheet (map No. 570), Nipissing, Algoma, and Parry Sound districts, Ontario. (In part AA (for 1891), Annual Report, 1890-91.)
326. Report on the Sudbury mining district. (Part F, Annual Report, 1890-91.)
- Summary of explorations in the area of the Manitoulin Island sheet (map No. 605), district of Algoma, Ontario. (In part A (for 1892), Annual Report, 1892-93.)
- Summary of explorations in the area of sheet 129 (not published), north of sheet 126 (map No. 605), district of Algoma, Ontario. (In part AA (for 1893), Annual Report, 1892-93.)
- Summary of explorations in the area covered by sheet 128 (not published), west of sheet 129, and sheet 129 (not published), north of map No. 605, Algoma and Sudbury districts, Ontario. (In part A, Annual Report, 1894.)

- Summary of explorations in the basin of the Nottaway river, Quebec. (In part A, Annual Report, 1895.)
- Summary of explorations in the basin of the Nottaway river, Quebec. (In part A, Annual Report, 1896.)
627. Report on the geology of the French River sheet, Ontario. (Part I, Annual Report, 1896.)
- Summary of explorations in Hudson strait (In part A, Annual Report, 1897.)
- Summary of explorations in the Michipicoten mining division, lake Superior, Ontario. (In part A, Annual Report, 1898.)
713. Report of an exploration on the northern side of Hudson strait. (Part M, Annual Report, 1898.)
- Summary of an exploration of Great Slave lake, North West Territories. (In part A, Annual Report, 1899.)
- Summary of work in the Michipicoten district, lake Superior, Ontario. (In part A, Annual Report, 1900.)
788. Report on the geology of the basin of Nottaway river, with a map of the region, 1900. (Part K, Annual Report, 1900.)
- {761. Summary Report of the Geological Survey Department for the calendar
762. year 1901. (Blue-book form, and part A, Annual Report, 1901.)
- {816. Summary Report of the Geological Survey Department of Canada for the
817. calendar year 1902. (Blue-book form, and part A, Annual Report, 1902-03.)
- {865. Summary Report of the Geological Survey Department of Canada for the
866. calendar year 1903. (Blue-book form, and part AA, Annual Report, 1902-03.)
- {899. Summary Report of the Geological Survey Department of Canada for the
900. calendar year 1904. (Blue-book form, and part A, Annual Report, 1904.)
947. Summary Report of the Geological Survey Department of Canada for the calendar year 1905.
- The Cobalt mining district. (No. [xix], Summary Report, 1905.)
- Cobalt district and northward. (No. [xiii], Summary Report, 1906.)
- Bell, Walter Andrew**
- Joggins Carboniferous section of Nova Scotia. (No. [xxxii], Summary Report, 1911.)
- Joggins Carboniferous section, Nova Scotia. (No. [xxxv], Summary Report, 1912.)
- Windsor-Horton [Nova Scotia]. (Guide Book No. 1, part I.)
- The Joggins Carboniferous section [Nova Scotia]. (Guide Book No. 1, part II.)
- The Horton-Windsor Carboniferous area, Nova Scotia. (No. [xxxiii], Summary Report, 1914.)
- Bignell, F. H.**
- The Lake Mistassini expedition, Quebec. (Extracts from letter. Selwyn in part A (for 1884), Annual Report, 1885.)
- Billings, Elkanah** (See also in Appendix.)
- Report for the year 1856. On fossils from Anticosti, and on new species of fossils from the Silurian rocks of Canada. (Report of Progress, 1853-56.)
- Description and geology of lake Clear; on the fauna of the Black River limestone; on the Galt limestone, Onondaga and Corniferous limestones; and descriptions of Silurian and Devonian fossils. (Report of Progress, 1857.) See also No. 41.

- On the *Cystideæ* of the Lower Silurian rocks of Canada.
 On the *Asteriadeæ* of the Lower Silurian rocks of Canada.
 On *Cyclocystoides*, a new genus of *Echinodermata* from the Lower and Middle Silurian rocks. (With J. W. Salter.) (The above three articles in "Figures and descriptions of Canadian organic remains. Decade III." (No. 425).)
- On the *Crinoideæ* of the Lower Silurian rocks of Canada. (In "Figures and descriptions of Canadian organic remains. Decade IV." (No. 426).)
491. Lower Silurian fossils.
 1. Fossils of the Calciferous sandrock, including those of a deposit of white limestone at Mingan, supposed to belong to the formation.
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427. Catalogues of the Silurian fossils of the island of Anticosti, with descriptions of some new genera and species. (Contains also descriptions of new species from the Clinton and Niagara formations of Ontario.)
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- Geology of the International boundary. (No. [v], Summary Report, 1903.)
- Geology of the western part of the International boundary (49th parallel). (No. [vi], Summary Report, 1904.)
- Reconnaissance of the Shuswap lakes and vicinity (south-central British Columbia). (No. [xii], Summary Report, 1911.) See also No. 1218a.
1211. Memoir No. 27. Report of the Commission appointed to investigate Turtle mountain, Frank, Alberta, 1911. (With W. G. Miller and G. S. Rice.)

1203. Memoir No. 38. Geology of the North American Cordillera at the forty-ninth parallel.
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1463. Memoir No. 68. A geological reconnaissance between Golden and Kamloops, B.C., along the Canadian Pacific railway.
Introduction to the geology of the Cordillera. (Guide Book No. 8, part II.)
Annotated guide, Golden to Savona [B.C.]. (Guide Book No. 8, part II.)
- Dawson, George Mercer** (See also in Appendix.)
Report on explorations in British Columbia. (Report of Progress, 1875-76.)
Report on explorations in British Columbia, chiefly in the basins of the Blackwater, Salmon, and Nechako rivers, and on François lake. (Report of Progress, 1876-77.)
Report of a reconnaissance of Leech river and vicinity. (Made in April 1876.) (Report of Progress, 1876-77.)
115. General note on the mines and minerals of economic value of British Columbia, with a list of localities. (Reprinted, with additions and alterations, from the Canadian Pacific Railway report, 1877.) (Report of Progress 1876-77.)
Preliminary report on the physical and geological features of the southern portion of the interior of British Columbia, 1877. (Part B, Report of Progress, 1877-78.)
133. Report on the Queen Charlotte islands, 1878. (Part B, Report of Progress, 1878-79.)
On the Lignite Tertiary formation from the Souris river to the 108th meridian. (Appendix I to part A, Report of Progress, 1879-80.)
Report on an exploration from Port Simpson, on the Pacific coast, to Edmonton on the Saskatchewan, embracing a portion of the northern part of British Columbia and the Peace River country. 1879. (Part B, Report of Progress, 1879-80.)
Note on the distribution of some of the more important trees of British Columbia. (Report of Progress, 1879-80.)
Summary of explorations in the region extending from the forty-ninth parallel to the Bow river, and from the Rocky mountains eastward to the 111th meridian. (In director's summary (for 1881), Report of Progress, 1880-82.)
Preliminary report on the geology of the Bow and Belly Rivers region, N.W. Territory, with special reference to the coal deposits. (Part B, Report of Progress, 1880-82). See also No. 408.
410. Descriptive sketch of the physical geography and geology of the Dominion of Canada. (With A. R. C. Selwyn.)
454. Comparative vocabularies of the Indian tribes of British Columbia. (With W. F. Tolmie.)
Summary of explorations south of latitude 51° 30' in portions of southern Alberta and the eastern and western slopes of the Rocky mountains. (Selwyn, in director's summary report (for 1883), Annual Report, 1882-84.)
Report on the region in the vicinity of the Bow and Belly rivers, North West Territory; embracing the country from the base of the Rocky mountains eastward to long. 110° 45', and from the 49th parallel northward to latitude 51° 20'. (With R. G. McConnell. Part C, Report of Progress, 1882-84.) See also No. 475.
Summary of explorations in the Rocky mountains, south of the Red Deer river. (Selwyn, in part A (for 1884), Annual Report, 1885.)
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212. Preliminary report on the physical and geological features of that portion of the Rocky mountains between latitudes 49° and 51° 30'. (Part B, Annual Report, 1885.)

235. Report on a geological examination of the northern part of Vancouver island and adjacent coasts. (Part B, Annual Report, 1886.)
244. Notes to accompany a geological map of the northern portion of the Dominion of Canada, east of the Rocky mountains. (Part R, Annual Report, 1886.)
Summary of explorations in Yukon Territory and the adjacent northern portion of British Columbia. (In Part A (for 1887), Annual Report, 1887-88.)
Summary of explorations in part of the southern interior of British Columbia. (In part A (for 1888), Annual Report, 1887-88.)
260. Report on an exploration in the Yukon district, N.W.T., and adjacent northern portion of British Columbia. 1887. (Part B, Annual Report, 1887-88.)
See also No. 261, and No. 629.
271. The mineral wealth of British Columbia, with an annotated list of localities of minerals of economic value. (Part R, Annual Report, 1887-88.)
Summary of work in the West Kootenay district, British Columbia. (In part A, Annual Report, 1888-89.)
294. Report on a portion of the West Kootenay district, British Columbia, 1889. (Part B, Annual Report, 1888-89.)
Summary of work in the areas of the Kamloops and Shuswap sheets (maps Nos. 556, 557, and 604, 669), British Columbia. (In part A (for 1890), Annual Report, 1890-91.)
- {552. Summary Report of the Geological Survey Department for the year 1894.
{553. (Blue-book form, and part A, Annual Report, 1894.)
573. Report on the area of the Kamloops map-sheet, British Columbia. (Part B, Annual Report, 1894.)
- {582. Summary Report of the Geological Survey Department for the year 1895.
{583. (Blue-book form, and part A, Annual Report, 1895.)
Note to accompany maps of the principal auriferous creeks of the Cariboo mining district, British Columbia. (Leaf of explanation accompanying portfolio containing maps Nos. 364-372.)
- {613. Summary Report of the Geological Survey Department for the year 1896.
{614. (Blue-book form, and part A, Annual Report, 1896.)
{632. Summary Report of the Geological Survey Department for the year 1897.
{644. (Blue-book form, and part A, Annual Report, 1897.)
{673. Summary Report of the Geological Survey Department for the year 1898.
{674. (Blue-book form, and part A, Annual Report, 1898.)
{690. Summary Report of the Geological Survey Department for the year 1899.
{691. (Blue-book form, and part A, Annual Report, 1899.)
{716. Summary Report of the Geological Survey Department for the year 1900.
{717. (Blue-book form, and part A, Annual Report, 1900.)
488. Economic minerals of Canada. Paris International Exhibition, 1900.

Dawson, John William (Sir) (See also in Appendix.)

428. The fossil plants of the Devonian and Upper Silurian formations of Canada.
Note on the fossil plants referred to in Mr. Richardson's report. (In report by J. Richardson, Report of Progress, 1871-72.)
Note on the fossil plants from British Columbia collected by James Richardson in 1872. (Appendix I to report by J. Richardson, Report of Progress, 1872-73.)
430. Report on the fossil plants of the Lower Carboniferous and Millstone Grit formations of Canada.
Fossil plants from Mackenzie river. (Selwyn in director's summary report, Report of Progress, 1874-75.)
List of Tertiary plants from localities in the southern part of British Columbia, with the description of a new species of *Equisetum*. (Appendix B to part B, Report of Progress, 1877-78.)
Note on fossil plants collected by Dr. Selwyn, in the Lignite Tertiary formation of Roche Percée, Souris river. (Appendix II to part A, Report of Progress, 1879-80.)

429. The fossil plants of the Erian (Devonian) and Upper Silurian formations of Canada. Part II.
- Dawson, William Bell**
Notes on the latitudes and longitudes adopted in the construction of the map of the Queen Charlotte islands. (With H. J. Bovey. Appendix G to part B, Report of Progress, 1878-79.)
- Denis, Théophile Constant**
The coal fields of Canada. (In part S, Annual Report, 1898.)
Notes on natural gas in Ontario and Quebec. (In part S, Annual Report, 1898.)
Remarks on the oil industry of Ontario. (In part S, Annual Report, 1898.)
Occurrence of platinum in Canada. (Special article in part S, Annual Report, 1901.)
818. Mineral resources of Canada. Bulletin No. 1. Platinum. (Reprint, with additions, of article in part S, Annual Report, 1901.)
The coal fields of Canada. (Revised and enlarged reprint of article in part S, Annual Report, 1898. In part S, Annual Report, 1902-03.)
851. Mineral resources of Canada. Coal. (Reprint of article in part S, Annual Report, 1902-03.)
857. Mineral resources of Canada. Infusorial earth. (Reprint of article in part S, Annual Report, 1902-03.)
858. Mineral resources of Canada. Manganese. (Reprint of article in part S, Annual Report, 1902-03.)
859. Mineral resources of Canada. Salt. (Reprint of article in part S, Annual Report, 1902-03.)
Geology of the country around Bruce Mines [Ont.]. (With E. D. Ingall. In part A, Annual Report, 1904.)
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Notes on work in Hastings county, Ontario, and on an investigation of natural gas at St. Joseph de Pierreville, Que. (Brock, in part A, Summary Report, 1907.)
- Devine, Thomas**
Description of a new trilobite from the Quebec group. (Article 2, in No. 530.)
- Dittmar, William**
Analysis of the waters of Hayes and Nelson rivers. (Appendix V to part C, Report of Progress, 1879-80.)
- Dittrich, Max**
Table of chemical analyses [of rocks collected during the survey of the International boundary]. (With M. F. Connor. Appendix A, Memoir No. 38, part II.)
- Dobbs, Whiteford Stewart**
The region south of cape Tatnam, Hudson bay. (No. [xi], Summary Report, 1905.)
- Dodge, Charles Keene**
1366. Memoir No. 54. Annotated list of flowering plants and ferns of Point Pelee, Ont., and neighbouring districts.
- Dowling, Donaldson Bogart** (See also in Appendix.)
Summary of work on lake Winnipeg. (In part AA (for 1891), Annual Report, 1890-91.)
Summary of explorations, Athabaska river to Reindeer lake. (In part A (for 1892), Annual Report, 1892-93.)
Summary of explorations in the Red Lake district, Ontario. (In part AA (for 1893), Annual Report, 1892-93.)

578. Report on the country in the vicinity of Red lake and part of the basin of Berens river, Keewatin. (Part F, Annual Report, 1894.)
601. Report on the country between Athabaska lake and Churchill river, with notes on two routes travelled between the Churchill and Saskatchewan rivers. (With J. B. Tyrrell. Part D, Annual Report, 1895.)
Summary of work on a survey and geological examination of lake Nipigon, Ontario. (In part A, Annual Report, 1898.)
704. Report on the geology of the west shore and islands of lake Winnipeg. (Part F, Annual Report, 1898.)
705. Report on the east shore of lake Winnipeg and adjacent parts of Manitoba and Keewatin. By J. B. Tyrrell. (Compiled by D. B. Dowling, Part G, Annual Report, 1898.)
Summary of explorations in the Grass River district, Saskatchewan. (In part A, Annual Report, 1899.)
638. General index to the Reports of Progress, 1863 to 1884.
787. Report on geological explorations in Athabaska, Saskatchewan, and Keewatin districts, including Moose lake and the route from Cumberland lake to the Churchill river and the upper parts of Burntwood and Grass rivers. (Part FF, Annual Report, 1900.)
The west side of James bay. (In part A, Annual Report, 1901.)
815. Report on an exploration of Ekwan river, Sutton Mill lakes, and part of the west coast of James bay. (Part F, Annual Report, 1901.)
Eastern Assiniboia and southern Manitoba. [Coal-mining; brick, cement, and plaster industries.] (In part A (for 1902), Annual Report, 1902-03.)
Notes to accompany a contoured plan of the lower slope of Turtle mountain, Manitoba. (In part A (for 1902), Annual Report, 1902-03.)
868. Report on the coal field of the Souris river, eastern Assiniboia. (Part F, Annual Report, 1902-03.)
On the coal basins in the Rocky mountains, Sheep Creek and Cascade troughs northward to the Panther river. (In part AA (for 1903), Annual Report, 1902-03.)
The Cascade and Costigan coal basins and their continuation northward. (In part A, Annual Report, 1904.)
The northern extension of the Elk River coal basin. (No. [viii], Summary Report, 1905.)
Rocky Mountain coal areas, between the Bow and Yellowhead passes. (No. [vii], Summary Report, 1906.)
949. Report on the Cascade coal basin, Alberta. (Blue-book form.)
Explorations in the Rocky mountains [Alberta]. (No. [v], Summary Report, 1907.)
Steam coals of the Cascade basin. Lignite areas of Alberta and Saskatchewan. Production of coal in Alberta and Saskatchewan. (No. [xi], Summary Report, 1908.)
1035. The coal fields of Manitoba, Saskatchewan, Alberta, and eastern British Columbia. See also No. 1363.
Coal fields south of the Grand Trunk Pacific railway, in the foothills of the Rocky mountains, Alberta. (No. [xi], Summary Report, 1909.)
1115. Memoir No. 8. The Edmonton coal field, Alberta.
Coal fields of Jasper park, Alberta. (No. [xi], Summary Report, 1910.)
I. Geology of Roche Miette map-area, Jasper park, Alberta.
II. Notes on coal occurrences and the progress of development work in Alberta and Saskatchewan.
(The above two reports are together. No. [xv], Summary Report, 1911.)
Winnipeg to Bankhead. (Guide Book No. 8, part I.)
Dunmore to Burmis [Alberta]. (Guide Book No. 9.)
Calgary, Alberta, to Winnipeg, Manitoba, via Grand Trunk Pacific railway. (Guide Book No. 9.)

1357. Memoir No. 52. Geological notes to accompany map of Sheep River gas and oil field, Alberta.
1363. Memoir No. 53. Coal fields of Manitoba, Saskatchewan, Alberta, and eastern British Columbia. (Revised edition of report No. 1035.)
Coal areas in Flathead valley, B.C. (No. [xiv], Summary Report, 1913.)
Geological notes on the Sheep River gas and oil field, Alberta. (No. [xv], Summary Report, 1913.)
North Saskatchewan River coal areas, Alberta. (No. [xvii], Summary Report, 1913.)
1388. Memoir No. 59. Coal fields and coal resources of Canada.
1465. Memoir No. 69. Coal fields of British Columbia.
Southern Alberta. (No. [viii], Summary Report, 1914.)
Water supply, southeastern Alberta. (No. [xi], Summary Report, 1915.)
Memoir No. 93. The southern plains of Alberta.
- Dresser, John Alexander**
Summary of work on the geology of Shefford mountain, Quebec. (In part A, Annual Report, 1898.)
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Summary of work on the geology of Shefford mountain, with notes on adjacent parts of the Eastern Townships, Quebec. (In part A, Annual Report, 1900.)
Petrography of Shefford and Brome mountains. (In part A, Summary Report, 1901.)
776. Report on the geology and petrography of Shefford mountain, Quebec. (Part L, Annual Report, 1900.)
An investigation of the copper-bearing rocks of the Eastern Townships, province of Quebec. (In part A (for 1902), Annual Report, 1902-03.)
The copper-bearing rocks of the Eastern Townships, Quebec. (In part AA (for 1903), Annual Report, 1902-03.)
The copper-bearing rocks of the Sherbrooke district, P.Q. (In part A, Annual Report, 1904.)
902. Report on the geology of Brome mountain, Quebec. (Part G, Annual Report, 1904.)
St. Bruno mountain [Quebec]. (Contains also notes on copper deposits in Wolfe, Arthabaska, and Megantic counties.) (No. [xxi], Summary Report, 1905.)
The serpentine belt of the Eastern Townships [Quebec]. (No. [xv], Summary Report, 1907.)
974. Report on the copper deposits of the Eastern Townships of Quebec, with a review of the igneous rocks of the district.
1028. Report on a recent discovery of gold near lake Megantic, Quebec.
A geological reconnaissance along the National Transcontinental railway from the St. Lawrence river to the Interprovincial boundary between Quebec and New Brunswick. (No. [xix], Summary Report, 1908.)
1077. Memoir No. 7. Geology of St. Bruno mountain, province of Quebec.
Serpentine belt of southern Quebec. (No. [xvii], Summary Report, 1909.)
See also No. 1144.
Serpentine belt of southern Quebec. (Includes a note on natural gas at St. Hyacinthe.) (No. [xx], Summary Report, 1910.)
1186. Memoir No. 35. Reconnaissance along the National Transcontinental railway in southern Quebec.
1190. Memoir No. 22. Preliminary report on the serpentine and associated rocks of southern Quebec.
The district southeast of and adjoining lake St. John, Quebec. (No. [xxix], Summary Report, 1915.)

1642. Memoir No. 92. Part of the district of Lake St. John, Quebec.
- Drysdale, Charles Wales**
 Franklin mining camp, West Kootenay, B.C. (No. [viii], Summary Report, 1911.)
 Geology of the Thompson River valley below Kamloops lake, B.C. (No. [x], Summary Report, 1912.) See also No. 1305a.
 Western part of the belt of interior plateaus (Savona to Lytton). (Guide Book No. 8, part II.)
 Rossland Mining camp, B.C. (No. [xiii], Summary Report, 1913.)
1383. Memoir No. 56. Geology of Franklin mining camp, British Columbia.
 Ymir mining camp, West Kootenay district, British Columbia. (No. [iii], Summary Report, 1914.)
1520. Memoir No. 77. Geology and ore deposits of Rossland, British Columbia.
 Bridge River map-area, Lillooet mining division.—Highland Valley copper camp, Ashcroft mining division.—Human skeleton from silt bed near Savona, British Columbia. (No. [v], Summary Report, 1915.)
1651. Memoir No. 94. Ymir mining camp, British Columbia.
- D'Urban, W. S. M.**
 Catalogue of animals and plants collected and observed in the valley of the river Rouge and the neighbouring townships in the counties of Argen-teuil and Ottawa. (Appendix IV to Report of Progress, 1858.) See also No. 463.
- Eaton, Daniel Isaac Vernon**
 Meteorological observations in the Labrador peninsula, 1893-94 and 1895. (Appendix VII to part L, Annual Report, 1895.)
- Eifrig, Charles William Gustave (Rev.)**
 List of birds and eggs identified or collected on the voyage of the *Neptune* to Hudson bay and northward. (With A. Halkett, A. P. Low, and John Macoun. Appendix II to No. 905.)
- Ells, Robert Hugh**
 Prince Edward and Hastings counties, Ont. (In part AA (for 1903), Annual Report, 1902-03.)
- Ells, Robert Wheelock** (See also in Appendix.)
 Report of observations on the Carboniferous system of New Brunswick, in the counties of Queens, Sunbury, and a portion of York. (With L. W. Bailey and G. F. Matthew. Report of Progress, 1872-73.)
 Report of operations in boring for coal with the diamond-pointed steam drill, at Newcastle Bridge, Queens county, New Brunswick. (Report of Progress, 1872-73.)
 Second report on the boring operations with the diamond drill at Newcastle Bridge, Queens county, New Brunswick. With records of borings Nos. 2 and 3. (Report of Progress, 1874-75.)
 Report on the iron ore deposits of Carleton county, New Brunswick. (Report of Progress, 1874-75.)
 Report on the boring operations in the North West Territory, summer of 1875. (Report of Progress, 1875-76.)
 Report of geological observations in southern New Brunswick. (With L. W. Bailey and G. F. Matthew. Report of Progress, 1875-76.)
 Report on the Lower Carboniferous belt of Albert and Westmorland coun-ties, N.B., including the "Albert shales." (With L. W. Bailey. Report of Progress, 1876-77.)
 Report on the pre-Silurian rocks of Albert, eastern Kings, and St. John counties, southern New Brunswick. 1877-78. (Part D, Report of Progress, 1877-78.)

137. Report on the geology of southern New Brunswick, embracing the counties of Charlotte, Sunbury, Queens, Kings, St. John, and Albert, 1878-79. (With L. W. Bailey and G. F. Matthew. Part D, Report of Progress, 1878-79.)
- Report on the geology of northern New Brunswick, embracing portions of the counties of Restigouche, Gloucester, and Northumberland, 1881. (Part D, Report of Progress, 1879-80.)
- Summary of explorations in northwestern New Brunswick and the Gaspé peninsula, Quebec. (Selwyn, in director's summary report (for 1882), Report of Progress, 1880-82.)
- Report on the geology of northern and eastern New Brunswick and the north side of the bay of Chaleur. (Part D, Report of Progress, 1880-82.)
- Report on the geological formations in the Gaspé peninsula. 1882. (Part DD, Report of Progress, 1880-82.)
- Summary of explorations along the Vermont boundary; on the Bonaventure, Cascapedia, and York rivers, Quebec; and in Prince Edward Island. (In director's summary report (for 1883), Report of Progress, 1882-84.)
- Report on explorations and surveys in the interior of the Gaspé peninsula. 1883. (Includes also a portion of Prince Edward Island.) (Part E, Report of Progress, 1882-84.)
- Summary of investigations of copper deposits and coal in eastern New Brunswick, and a reported gold occurrence at New Annan, Nova Scotia. (Selwyn, in part A (for 1884), Annual Report, 1885.)
- Summary of work in the Eastern Townships, Quebec. (Selwyn, in part A (for 1885), Annual Report, 1885.)
218. Report on the geological formations of eastern Albert and Westmorland counties, New Brunswick, and of portions of Cumberland and Colchester counties, Nova Scotia, embracing the Spring Hill coal basin and the Carboniferous system north of the Cobequid mountains. 1884. (Part E, Annual Report, 1885.)
- Summary of work in the Eastern Townships, Quebec. (In part A, Annual Report, 1886.)
240. Report on the geology of a portion of the Eastern Townships, relating more especially to the counties of Compton, Stanstead, Beauce, Richmond, and Wolfe. (Part J, Annual Report, 1886.)
- Summary of work in the Eastern Townships, Quebec. (In part A (for 1887), Annual Report, 1887-88.)
- Summary of work in the Eastern Townships, Quebec. (In part A (for 1888), Annual Report, 1887-88.)
268. Second report on the geology of a portion of the province of Quebec. [Relating more especially to the counties of Megantic, Beauce, Dorchester, Lévis, Bellechasse, and Montmagny.] (Part K, Annual Report, 1887-88.)
- Summary of work in the Eastern Townships, Quebec. (In part A, Annual Report, 1888-89.)
297. Report on the mineral resources of the province of Quebec. (Part K, Annual Report, 1888-89.)
- Summary of work in the Eastern Townships, Quebec. (In part A (for 1890), Annual Report, 1890-91.)
- Summary of work in the Eastern Townships, Quebec, and up the valley of the Ottawa river and its northern tributaries. (In part AA (for 1891), Annual Report, 1890-91.)
- Summary of work in the counties of Ottawa and Argenteuil, Quebec. (In part A (for 1892), Annual Report, 1892-93.)
- Summary of work, chiefly in Ottawa and Pontiac counties, Quebec. (In part AA (for 1893), Annual Report, 1892-93.)
- Summary of work, chiefly in Ottawa and Pontiac counties, Quebec, and Carleton county, Ontario. (In part A, Annual Report, 1894.)
579. Report on a portion of the province of Quebec comprised in the south-west sheet of the "Eastern Townships" map (Montreal sheet). With a

- chapter on the Laurentian, north of the St. Lawrence river, by F. D. Adams. (Part J, Annual Report, 1894.)
- Summary of work along the Ottawa river in Renfrew and Pontiac counties, Ontario and Quebec. (In part A, Annual Report, 1895.)
- Summary of work in portions of Renfrew, Addington, Frontenac, Lanark, and Carleton counties, Ontario. (In part A, Annual Report, 1896.)
- Summary of work in the areas of the Ottawa and Cornwall, and Perth sheets (maps Nos. 903 and 789), Ontario and Quebec. (In part A, Annual Report, 1897.)
- Summary of work in the St. Maurice district; in the area of the Ottawa and Cornwall sheet (map No. 903); with observations on mining developments along the Gatineau and lower Ottawa rivers, Quebec. (In part A, Annual Report, 1898.)
707. Report on the geology of the Three Rivers map-sheet, or north-western sheet of the 'Eastern Townships' map, Quebec. (Part J, Annual Report, 1898.)
- Summary of work, chiefly in the area of the Ottawa and Cornwall sheet (map No. 903), Ontario and Quebec. (In part A, Annual Report, 1899.)
741. Report on the geology and natural resources of the area included in the map of the city of Ottawa and vicinity. (Part G, Annual Report, 1899.)
739. Report on the geology of Argenteuil, Ottawa, and part of Pontiac counties, province of Quebec, and portions of Carleton, Russell, and Prescott counties, province of Ontario. (Part J, Annual Report, 1899.)
- Summary of work in the areas of the Ottawa and Cornwall sheet (map No. 903) and the Brockville sheet to the southwest of it (not published) with observations on economic minerals. (In part A, Annual Report, 1900.)
- The district around Kingston, Ontario. (In part A, Annual Report, 1901.)
790. Report on the geology of a portion of eastern Ontario (to accompany map sheet No. 119 [map No. 789]). (Part J, Annual Report, 1901.)
- General report on the work of 1902. (In part A (for 1902), Annual Report, 1902-03.)
- The oil-fields of Gaspé. (In part A (for 1902), Annual Report, 1902-03.)
- The Albert shale deposits of Albert and Westmorland counties, N.B. (In part A (for 1902), Annual Report, 1902-03.)
- Report on the geology of Prince Edward Island with reference to proposed borings for coal. (In part A (for 1902), Annual Report, 1902-03.)
854. Mineral resources of Canada. Bulletin on asbestos.
- The recent landslide on the Lièvre river, P.Q. (In part AA (for 1903), Annual Report, 1902-03.)
- Charlotte county, New Brunswick. (In part AA (for 1903), Annual Report, 1902-03.)
882. Mineral resources of Canada. Bulletin on the ores of copper in the provinces of Nova Scotia, New Brunswick, and Quebec.
877. Mineral resources of Canada. Bulletin on graphite.
869. Mineral resources of Canada. Bulletin on mica.
881. Mineral resources of Canada. Bulletin on apatite (phosphate of lime).
- Nicola coal-basin, B.C. (No. [iii], Summary Report, 1904.)
- Geology of Charlotte county, New Brunswick. (No. [xxv], Summary Report, 1904.)
- Graham island (of the Queen Charlotte group, B.C.). (No. [vi], Summary Report, 1905.)
940. Report on Graham island, B.C. (Part B, Annual Report, 1904.)
- Southern New Brunswick. (No. [xviii], Summary Report, 1906.)
- Surveys in southern New Brunswick. (No. [xvii], Summary Report, 1907.)

977. Report on the geology and natural resources of the area included in the northwest quarter-sheet, number 122, of the Ontario and Quebec series, comprising portions of the counties of Pontiac, Carleton, and Renfrew.
1030. Report on the landslide at Notre-Dame de la Salette, Lièvre river, Quebec.
983. The geology and mineral resources of New Brunswick.
Bituminous shales of Nova Scotia and New Brunswick: with notes on the geology of the oil-shales of Scotland. (No. [xxi], Summary Report, 1908.) See also No. 1107.
Oil-shales of eastern Canada. (No. [xviii], Summary Report, 1909.) See also No. 1107.
Summary report of the work of the late Mr. Hugh Fletcher in northern Cumberland county, Nova Scotia. (Compiled from his journal.) (No. [xx], Summary Report, 1909.)
1107. Joint report on the bituminous or oil-shales of New Brunswick and Nova Scotia, also on the oil-shale industry of Scotland. Part I. Economics. Part II. Geology.

Falconer, Fairbairn Scott

- Topographical division. Part II. Spirit levelling. St. John sheet, New Brunswick. (No. [xiv], Summary Report, 1912.) See also 1305b.
Topographical division. Part I. East Sooke and Flathead coal basin map-areas. (Summary Report, 1913.) See also 1359a.
Topographical division. Field work. Revelstoke sheet and Ainsworth map-area, British Columbia. (Summary Report, 1914.)
Topographical division. Field work. Revelstoke sheet, British Columbia. (Summary Report, 1915.)

Faribault, Eugène Rodolphe

- Summary of observations along the West River St. Mary, Guysborough county, Nova Scotia. (In part A (for 1885), Annual Report, 1885.)
Summary of work in the area lying between the Liscomb and Sheet Harbour rivers and the Atlantic coast, Nova Scotia. (Fletcher, in part A, Annual Report, 1886.)
243. Report on geological surveys and explorations in the counties of Guysborough, Antigonish, Pictou, Colchester, and Halifax, Nova Scotia, from 1882 to 1886. (With H. Fletcher. Part P, Annual Report, 1886.)
Summary of examinations of the gold-bearing rocks in the area watered by the two Little West rivers of Sheet Harbour and the Mushaboon, Tangier, and Sheet Harbour rivers, Halifax county, Nova Scotia. (In part A (for 1888), Annual Report, 1887-88.)
Summary of work on the gold-bearing rocks in portions of Halifax and Colchester counties, Nova Scotia. (In part A, Annual Report, 1888-89.)
Summary of work on the gold-bearing rocks in the area extending along the Atlantic coast in Halifax county, Nova Scotia, from Tangier to Lawrencetown and about 20 miles inland. (Selwyn, in part A (for 1890), Annual Report, 1890-91.)
Summary of an examination of the Little Ditton gold district, Compton county, Quebec, and of work on the gold-bearing rocks in the country lying along the Atlantic coast from Porter's lake to Halifax harbour and northerly to the Shubenacadie and St. Andrew's rivers, Halifax and Colchester counties, Nova Scotia. (In part AA (for 1891), Annual Report, 1890-91.)
Summary of work on the gold-bearing rocks in the area extending on the northwest side of the Intercolonial railway, from the Nine Mile river to Bedford and as far as the Gore, Central Rawdon, Newport, Mount Uniacke, lake Pockwock, and Hammond's plains, Hants and Halifax counties, Nova Scotia. (In part A (for 1892), Annual Report, 1892-93.)
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395. Esquisse géologique du Canada, pour servir à l'intelligence de la carte géologique et de la collection des minéraux économiques envoyées à l'Exposition universelle de Paris, 1855. (With W. E. Logan.) See also No. 397.
- Report for the year 1853. On the geological distribution of mineral waters of Canada; waters of the St. Lawrence and Ottawa rivers; limestones and dolomites from Ontario; fossil shells, etc.; assays of galena and gold. (Report of Progress, 1853-56.)
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400. Petroleum, its geological relations considered with especial reference to its occurrence in Gaspé, being a report addressed to The Hon. Commissioner of Crown Lands.
64. Report on the gold region of Lower Canada. (With A. Michel. Report of Progress, 1863-66.)
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1204. Memoir No. 24. Preliminary report on the clay and shale deposits of the western provinces. (With H. Ries.) See also Nos. 1279, 1324, 1453, and 1455.
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1451. Memoir No. 64. Preliminary report on the clay and shale deposits of the province of Quebec.
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1576. Museum Bulletin No. 21. Notes on the geology and palæontology of the lower Saskatchewan River valley.
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1658. Museum Bulletin No. 25. Recent and fossil ripple mark.
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1288. Memoir No. 40. The Archæan geology of Rainy lake re-studied.
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- List of *Coleoptera* collected by Dr. R. Bell in 1879, on the Nelson and Churchill rivers. (Appendix V to part C, Report of Progress, 1878-79.)
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On the geology and economic minerals of the north shore of lake Superior. (Report of Progress, 1846-47.)
391. Remarks on the mining region of lake Superior, addressed to the Committee of the Honourable the Executive Council, and Report on mining locations claimed on the Canadian shores of the lake, addressed to the Commissioner of Crown Lands.
On the geology of the country on the south side of the St. Lawrence extending from the vicinity of Montreal and lake Champlain to the Chaudière river, with notes on the economic minerals. (Report of Progress, 1847-48.) See also Nos. 399 and 469.
392. Report on the north shore of lake Huron.
Summary report of the director. (Report of Progress, 1848-49.)

- On the geology of the vicinity of baie St. Paul and Murray bay, and of the Eastern Townships from the Chaudière river to the Temiscouata Portage road, with notes on economic minerals. (Report of Progress, 1849-50.) See also No. 399.
- Catalogue of some of the economic minerals and deposits of Canada with their localities. (Appendix to Report of Progress, 1849-50.) See also Nos. 399, 470, and 471.
- On the gold of the Chaudière river and rivière du Loup, and various localities between lake Etchemin and Sherbrooke, Quebec. (Report of Progress, 1850-51.) See also No. 399.
- On the geology of parts of the counties of Beauharnois and Lake of Two Mountains; gold washing on rivière du Loup; various economic materials; and on the collection sent to the Industrial Exhibition of 1851 (London), including a catalogue of the Canadian minerals shown at this exhibition. (Report of Progress, 1851-52.) See also No. 399.
- On the geology of the north shore of the St. Lawrence, between Montreal and cape Tourmente below Québec, with notes on economic materials from various localities in this area, the Eastern Townships, etc. (Report of Progress, 1852-53.) See also No. 399.
395. Esquisse géologique du Canada, pour servir à l'intelligence de la carte géologique et de la collection des minéraux économiques envoyées à l'Exposition universelle de Paris, 1855. (With T. S. Hunt.) See also No. 397.
- Summary report of the director. (Report of Progress, 1853-56.)
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- Summary report of the director. (Report of Progress, 1857.)
- On the distribution of Laurentian limestones and drift along the Rouge river; on economic materials from various localities; and a note on the general geological map and report. (Report of Progress, 1858.)
- Levels of the river Rouge and its tributaries. (Appendix I to Report of Progress, 1858.)
- List of localities showing traces of copper ore in the Lower Silurian rocks of Canada East, more particularly in the magnesian group of Quebec occurring at the summit of the Hudson River formation, and intermediate between what has occasionally been called the Richelieu shales and the Sillery sandstones. The localities are given going from west to east, and the list is intended, not to show workable quantities, but the distribution of the metal in the magnesian rocks. (Appendix II to Report of Progress, 1858.)
398. Descriptive catalogue of a collection of the economic minerals of Canada, and of its crystalline rocks. Sent to the London International Exhibition for 1862. (With T. S. Hunt.)
51. Geology of Canada, 1862.
50. Geology of Canada. (Geological Survey of Canada. Report of progress from its commencement to 1863.)
- Localities showing copper lodes and traces of copper ore on the Mississagi river, lake Huron. (Appendix III, Report of Progress, 1858.)
- Summary report of the director. (Report of Progress, 1863-66.)
66. Summary Report of progress in geological investigations. 1869.
- On the part of the Pictou coal-field east of the East river, Nova Scotia. (Report of Progress, 1866-69.) See also No. 69.
- Notes on the report of Robert Bell on the Nipigon region. (Postscript, Report of Progress, 1866-69.) See also No. 74.
- Low, Albert Peter**
- Summary of explorations in the Gaspé peninsula, Quebec. (Selwyn, in director's summary report (for 1883), Report of Progress, 1882-84.)
- Report on explorations and surveys in the interior of the Gaspé peninsula 1883. (Part F, Report of Progress, 1882-84.)

- Extracts from letters, giving summary of progress of the work of the Lake Mistassini expedition, Quebec. (Selwyn, in part A (for 1884), Annual Report, 1885.)
216. Report of the Mistassini expedition, 1884-5. (Part D, Annual Report, 1885.)
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238. Preliminary report on an exploration of country between lake Winnipeg and Hudson bay. (Part F, Annual Report, 1886.)
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267. Report on explorations in James bay and country east of Hudson bay, drained by the Big, Great Whale, and Clearwater rivers. (Part J, Annual Report, 1887-88.)
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328. Report on the geology and economic minerals of the southern portion of Portneuf, Quebec, and Montmorency counties, province of Quebec. (Part L, Annual Report, 1890-91.)
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584. Report on explorations in the Labrador peninsula, along the Eastmain, Koksoak, Hamilton, Manikuagan, and portions of other rivers in 1892-93-94-95. (Part L, Annual Report, 1895.)
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657. Report on a traverse of the northern part of the Labrador peninsula from Richmond gulf to Ungava bay. (Part L, Annual Report, 1896.)
680. Report of an exploration of part of the south shore of Hudson strait and of Ungava bay. (Part L, Annual Report, 1898.)
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819. Report on the geology and physieal character of the Nastapoka islands, Hudson bay. (Part DD, Annual Report, 1900.)
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905. Report on the Dominion Government Expedition to Hudson bay and the Arctic islands on board the D.G.S. *Neptune*, 1903-1904.
923. Geological report on the Chibougamau mining region in the northern part of the province of Quebec.
959. Summary report of the Geological Survey of Canada for the calendar year 1906. (Blue-book form.)

Lowe, James

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List of *Lepidoptera*, collected by Dr. Robert Bell in Hudson strait in 1884. (Appendix V to part DD, Report of Progress, 1882-84.)

Partial list of insects collected in 1885, by Dr. Robert Bell, in connection with the Hudson Bay expedition. *Lepidoptera*, determined by H. H. Lyman. *Coleoptera*, determined by G. H. Horn. (Appendix II to part DD, Annual Report, 1885.)

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213. Report on the Cypress hills, Wood mountain, and adjacent country, embracing that portion of the district of Assiniboia lying between the International boundary and the 51st parallel, and extending from long. 106° to long. 110° 50'. (Part C, Annual Report, 1885.)
Summary of work on a section in the Rocky mountains measured near the 51st parallel. (In part A, Annual Report, 1886.)
236. Report on the geological structure of a portion of the Rocky mountains accompanied by a section measured near the 51st parallel. (Part D Annual Report, 1886.)
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295. Report on an exploration in the Yukon and Mackenzie basins, N.W.T. (Part D, Annual Report, 1888-89.) See also No. 629.
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Summary of an examination of part of the Bow River valley near Kananaskis Alberta. (In part AA (for 1891), Annual Report, 1890-91.)
324. Report on a portion of the district of Athabaska comprising the country between Peace river and Athabaska river north of Lesser Slave lake. (Part D, Annual Report, 1890-91.)
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687. Preliminary report on the Klondike gold fields, Yukon district, Canada. (Published in advance of Summary Report for 1899, in which it also appears.)
Summary report on the Klondike gold fields, Yukon Territory. (In part A, Annual Report, 1899. Same subject matter as No. 687.)
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The Yukon district. (An examination of some of the smaller placer camps.) (In part A, Annual Report, 1901.)
884. Report on the Klondike gold fields. (Part B, Annual Report, 1901.)
The Macmillan river, Yukon district. (In part A (for 1902), Annual Report, 1902-03.)

- Klondike district, Yukon Territory. (In part AA (for 1903), Annual Report, 1902-03.) See also Appendix to part AA.
- The Klwane mining district. (South-western portion of Yukon district.) (In part A, Annual Report, 1904.)
- Headwaters of White river, Yukon. (No. [j] Summary Report, 1905.)
- Windy Arm district, northwestern British Columbia. (No. [iii], Summary Report, 1905.) See also No. 909.
- Klondike district. (Summary of work in estimating gold values in high level gravels, and notes on mining conditions. No. [j], Summary Report, 1906.)
979. Report on gold values in the Klondike high level gravels.
- North-western portion of Texada island. (No. [v], Summary Report 1908.)
1050. The Whitehorse copper belt. Yukon Territory.
- Texada island and Moresby island, B.C. (No. [iii], Summary Report, 1909.)
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- I. Observatory inlet, British Columbia.
- II. Salmon River district.
- III. Portland Canal district.
- (The above three reports are together. No [ii], Summary Report, 1911.)
- Geological section along the Grand Trunk Pacific railway from Prince Rupert to Aldermere, B.C. (No. [iv], Summary Report, 1912.)
- Princess Royal island, B.C. (No. [v], Summary Report, 1912.)
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1503. Summary Report of the Geological Survey, Department of Mines, for the calendar year 1914. (Blue-book form.)
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1235. Memoir No. 32. Portions of Portland Canal and Skeena mining divisions, Skeena district, B.C.

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- Meteorological observations.
1. Meteorological observations in the Yukon district and adjacent northern part of British Columbia, June 1 to September 19, 1887. (In Appendix VI to part B, Annual Report, 1887-88.)
- Summary of work in the areas of the Shuswap (map No. 604) and Kamloops (map No. 556) sheets, British Columbia. (In part AA (for 1891), Annual Report, 1890-91.)
- Summary of work in the area of the Shuswap sheet (map No. 604), British Columbia. (In part A (for 1892), Annual Report, 1892-93.)
- Summary of an exploration of the Portland canal, Observatory inlet, and the Nass river (map No. 1247), British Columbia. (In part AA (for 1893) Annual Report, 1892-93.)
- Notes on the country traversed between Adams and Shuswap lakes, and on a recent discovery of silver ore near Adams lake, B.C. (In summary by Dawson, part A, Annual Report, 1894.)
- Summary of work in the area of the Shuswap sheet (map No. 604), British Columbia. (In part A, Annual Report, 1895.)
- Summary of work in the area of the Shuswap sheet (map No. 604), and in the vicinity of Rossland, B.C. (In part A, Annual Report, 1896.)

- Summary of work in the area of the West Kootenay sheet (map No. 792), British Columbia. (In part A, Annual Report, 1897.)
- Summary of an exploration by the Yellowhead pass from Edmonton, Alberta, to Tête-Jaune Cache, British Columbia. (In part A, Annual Report, 1898.)
- 703.** Report on the geology and natural resources of the country traversed by the Yellow Head Pass route from Edmonton to Tête-Jaune Cache, comprising portions of Alberta and British Columbia. (Part D, Annual Report, 1898.)
- Summary of a preliminary geological and topographical examination of the southwestern part of the East Kootenay district, British Columbia. (In part A, Annual Report, 1899.)
- Summary of work in the Crownsnest Pass coal-field, British Columbia. (In part A, Annual Report, 1900.)
- Macfarlane, Thomas**
- On the geology and economic minerals of the north riding of the county of Hastings, townships of Elzevir, Madoc, Marmora, Lake, and Tudor. (Report of Progress, 1863-66.)
- On the Laurentian, Huronian, and Upper Copper-bearing rocks, and the economic minerals of Michipicoten island and the east shore of lake Superior. (Report of Progress, 1863-66.)
- McInnes, William**
- Description of the Pre-Cambrian rocks in the area of map No. 231, Victoria, Carleton, York, and Northumberland counties, New Brunswick. (In Part G, Annual Report, 1885.)
- Summary of work in the area covered by maps Nos. 231 and 254, in Victoria and Northumberland counties, New Brunswick. (In part A, Annual Report, 1886.)
- 242.** Report on explorations in portions of the counties of Victoria, Northumberland, and Restigouche, New Brunswick. (With L. W. Bailey. Part N, Annual Report, 1886.)
- Summary of surveys in the area covered by maps Nos. 290 and 350, in Madawaska and Restigouche counties, New Brunswick, and Temiscouata county, Quebec. (Selwyn, in part A (for 1887), Annual Report, 1887-88.)
- Summary of explorations in the area covered by maps Nos. 290 and 350, in Restigouche and Madawaska counties, New Brunswick, and Temiscouata and Rimouski counties, Quebec. (Bailey, in part A (for 1888), Annual Report, 1887-88.)
- 269.** Report on explorations and surveys in portions of northern New Brunswick and adjacent areas in Quebec and in Maine, U.S. (With L. W. Bailey. Part M, Annual Report, 1887-88.)
- Summary of work in the area of map No. 350, Temiscouata and Rimouski counties, Quebec. (Bailey, in part A, Annual Report, 1888-89.)
- Summary of explorations in the area covered by the Manitou Lake sheet (map No. 720), Rainy Lake sheet (map No. 283), and Lake Shebandowan sheet (map No. 589), Rainy River and Thunder Bay districts, Ontario. (In part A (for 1890), Annual Report, 1890-91.)
- Summary of explorations in the area of the Lake Shebandowan sheet (map No. 589), Thunder Bay district, Ontario. (In part AA (for 1891), Annual Report, 1890-91.)
- 330.** Report on portions of the province of Quebec and adjoining areas in New Brunswick and Maine, relating more especially to the counties of Temiscouata and Rimouski, Que. (With L. W. Bailey. Part M, Annual Report, 1890-91.)
- Summary of explorations chiefly in the area of the Lake Shebandowan sheet (map No. 589), Thunder Bay district, Ontario. (In part A (for 1892), Annual Report, 1892-93.)

- Summary of explorations in the area covered by the Lake Shebandowan sheet (map No. 589) and Seine River sheet (map No. 560), Thunder Bay and Rainy River districts, Ontario. (Selwyn, in part AA (for 1893), Annual Report 1892-93.)
- Summary of a survey and geological examination of lake Nipigon, Ontario, (In part A, Annual Report, 1894.)
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- Summary of explorations in the areas of the Seine river and Manitou Lake sheets (maps Nos. 560 and 720); notes on gold locations in the vicinity of Bad Vermilion and Shoal lakes (see map No. 283); the Regina, Sultana, and Scramble mines, Lake of the Woods; the Lake Minnitaki gold region; and the Empress gold mine, near Jackfish, lake Superior, Ontario. (In part A, Annual Report, 1896.)
- Summary of explorations in the areas of the Manitou Lake and Ignace sheets (maps Nos. 720 and 663), Rainy River district, Ontario; and work on Lake of the Woods for the revised edition of map No. 227. (In part A, Annual Report, 1897.)
678. Report on the geology of the area covered by the Seine River and Lake Shebandowan map-sheets, comprising portions of Rainy River and Thunder Bay districts, Ontario. (Part H, Annual Report, 1897.)
- Summary of explorations in the area of the Ignace sheet (map No. 663) and in the Lake Minnitaki region, Rainy River district, Ontario. (In part A, Annual Report, 1898.)
- Summary of explorations in the area of the Ignace sheet (map No. 663), Rainy River and Thunder Bay districts, Ontario. (In part A, Annual Report, 1899.)
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- The upper parts of the Winisk and Attawapiskat rivers. (In part A, Annual Report, 1904.)
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1080. Report on a part of the North West Territories of Canada drained by the Winisk and upper Attawapiskat rivers.
- Saskatchewan River district. (No. [xii], Summary Report, 1910.)
1225. Memoir No. 30. The basins of Nelson and Churchill rivers.
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855. Report on the Peace River region. (Part E, Annual Report, 1902-03.)
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- Biological division. Botany. (Summary of the work of the year. Summary Report, 1915.)
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- List of plants collected by W. C. Sandercock in the vicinity of Ymir, British Columbia. (In Memoir No. 94.)
- Macoun, John.** (See also in Appendix.)
- Geological and topographical notes on the lower Peace and Athabaska rivers. (Appendix I to report by A. R. C. Selwyn, Report of Progress, 1875-76.)
- Report on the flora and agricultural character of the country traversed from Vancouver island to Carlton on the Saskatchewan.
- Appendix. Catalogue of plants. [Saskatchewan; Peace River; Rocky mountains; British Columbia, including Vancouver island.] (Report of Progress, 1875-76.)
- Plants collected in the Queen Charlotte islands, 1878. (Appendix E to part B, Report of Progress, 1878-79.)
- List of plants collected by Dr. R. Bell around the shores of Hudson bay and along the Churchill and Nelson rivers in 1877 and 1879. (Appendix II to part C, Report of Progress, 1878-79.)
- List of plants collected in the northern part of British Columbia and the Peace River country, 1879. (Appendix I to part B, Report of Progress, 1879-80.)
- List of plants collected [on Hudson bay and some lakes and rivers west of it] in 1880. (Appendix II to part C, Report of Progress, 1879-80.)
- List and notes of plants collected by Mr. Richardson on the Magdalen islands. (Appendix to part G, Report of Progress, 1879-80.)
- Summary of botanical work in the western peninsula of Ontario; Gaspé, Quebec; Prince Edward Island; and Nova Scotia. (Selwyn, in director's summary report (for 1882), Report of Progress, 1880-82.)
- Catalogue of the plants collected by Dr. Robert Bell along the Michipicoten river and in the southern part of the basin of Moose river, in July, August, and September, 1881. (Appendix I to part C, Report of Progress, 1880-82.)
447. Catalogue of Canadian plants. Part I. *Polypetalæ*.
448. Catalogue of Canadian plants. Part II. *Gamopetalæ*.
- Summary of botanical work in Nova Scotia, Anticosti island, and Ontario. (In director's summary report (for 1883), Report of Progress, 1882-84.)
- List of plants collected on the coasts of Labrador, Hudson strait and bay, by Dr. Robert Bell in 1884. (Appendix I to part DD, Report of Progress, 1882-84.)
- Summary of botanical work, including field-work west of lake Nipissing, and north of lake Superior, including lake Nipigon, Ontario. (In part A (for 1884), Annual Report, 1885.)
- Summary of botanical work, including field-work in the Rocky mountains and western Ontario. (In part A (for 1885), Annual Report, 1885.)
- List of plants collected in Newfoundland in 1885 by Dr. Robert Bell. (Appendix I to part DD, Annual Report, 1885.)
449. Catalogue of Canadian plants. Part III. *Apetalæ*.

- Summary of botanical work. (Selwyn, in part A, Annual Report, 1886.)
 List of plants obtained by Dr. G. M. Dawson on Vancouver island and adjacent coasts, in 1885. (Appendix II to part B, Annual Report, 1886.)
450. Catalogue of Canadian plants. Part IV. *Endogens*.
 Summary of botanical work, including field-work in Vancouver island, (In part A (for 1887); Annual Report, 1887-88.)
 Summary of botanical and ornithological work, including field-work in the valleys of the Athabaska and Churchill rivers (J. M. Macoun) and Prince Edward Island. (In part A (for 1888), Annual Report, 1887-88.)
 List of plants collected by Dr. G. M. Dawson in the Yukon district and adjacent northern portion of British Columbia in 1887. (Appendix III to part B, Annual Report, 1887-88.)
451. Catalogue of Canadian plants. Part V. *Acrogens*.
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452. Catalogue of Canadian plants. Part VI. *Musci*.
 Summary of botanical and ornithological work, including field-work in British Columbia. (In part A (for 1890); Annual Report, 1890-91.)
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798. Catalogue of Canadian plants. Part VII. *Lichenes* and *Hepaticæ*.
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 List of plants collected by D. B. Dowling at the mouth of the Ekwan and Albany rivers, 1901 (misprinted "1891"). (Appendix II to part F, Annual Report, 1901.)
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- List of plants collected by W. J. Wilson along the shore of James bay, and in the valley of the Kapiscau river [Ontario]. (With W. J. Wilson's report, in part A (for 1902), Annual Report, 1902-03.)
- Botany and ornithology. (Summary of the work of the year. In part AA (for 1903), Annual Report, 1902-03.)
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- The botany and climate of the northwest side of the lower St. Lawrence river. (Summary Report, 1905.)
- List of birds and eggs identified or collected on the voyage of the *Neptune* to Hudson bay and northward. (With A. P. Low, A. Halkett, and G. W. G. Eifrig. Appendix II to No. 905.)
- On explorations along the line of the Grand Trunk Pacific railway between Portage la Prairie and Edmonton [Manitoba, Saskatchewan, and Alberta]. (No. [ix], Summary Report, 1906.)
- Natural History branch. (Summary of the work of the year. Summary Report, 1906.)
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- Summary report of the naturalist. (Contains note on the preservation of mine timbers. No. [xxviii], Summary Report, 1908.)
973. Catalogue of Canadian birds. (With J. M. Macoun. Second and revised edition, 1909. For first edition see Nos. 692, 822, and 883.)
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I. [Summary of the work of the year.] (Summary Report, 1911.)
- Biological division. Botany. (Summary of the work of the year, including field-work on Vancouver island; and a report by J. M. Macoun on plants collected by D. D. Cairnes on the 141st meridian in 1912. Summary Report, 1912.)
- Biological division. Botany. (Summary of field-work on Vancouver island, British Columbia. Summary Report, 1913.)
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- Mailhot, Adhémar**
Granites of the Eastern Townships of Quebec. (No. [xxvi], Summary Report 1913.)
Granites of the Eastern Townships, Quebec. (No. [xxix], Summary Report 1914.)
- Malcolm, Wyatt** (See also in Appendix.)
1220. Memoir No. 29. Oil and gas prospects of the northwest provinces of Canada. [Compiled.]
1173. Memoir No. 20. Gold fields of Nova Scotia. Compiled largely from the results of investigations by E. R. Faribault.
1368. Prospector's handbook No. 1. Notes on radium-bearing minerals.
1561. Memoir No. 81. The oil and gas fields of Ontario and Quebec. [Compiled.]
- Malloch, George Stewart**
The Cascades, Palliser, and Costigan coal basins. (No. [vi], Summary Report 1907.)

- The Big Horn coal basin [Alberta], (No. [ix], Summary Report, 1908.)
 A reconnaissance on the upper Fraser river between Fort George and Tête
 Jaune Cache. (No. [viii], Summary Report, 1909.)
 Topographic work in the Portland Canal district, northern British Columbia.
 (Summary Report, 1910.) See No. 1235.
- 1130.** Memoir No. 9. Bighorn coal basin, Alberta.
 Reconnaissance on the upper Skeena river between Hazelton and the
 Groundhog coal-field, British Columbia. (No. [iii], Summary Report,
 1911.)
 The Groundhog coal field, B.C. (No. [vii], Summary Report, 1912.)
 Metalliferous deposits in the vicinity of Hazelton, B.C. (No. [viii], Sum-
 mary Report, 1912.)
- Malte, Malte Oscar**
1663. Museum Bulletin No. 26. The flora of Canada. (With J. M. Macoun.)
- Martin, Lawrence**
 Juneau-Yakutat section [Alaska]. (Guide Book No. 10.)
- Mason, John Alden**
 Anthropological division. Part I. Ethnology and linguistics. On work
 among northern Athabaskan tribes, 1913. (No. [xlvi], Summary Report,
 1913.) See also No. 1359b.
- Matthew, George Frederick**
 Preliminary report on the geology of southern New Brunswick. (With L.
 W. Bailey. Report of Progress, 1870-71.)
 Report of observations on the Carboniferous system of New Brunswick, in
 the counties of Queens, Sunbury, and a portion of York. (With L.
 W. Bailey and R. W. Ells. Report of Progress, 1872-73.)
 Summary report of geological observations in New Brunswick. (With
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 New Brunswick, with a summary of geological observations in the
 south-eastern part of the same county. (Report of Progress, 1876-77.)
 Report on the Upper Silurian and Kingston (Huronian) of southern New
 Brunswick. 1877. (Part E, Report of Progress 1877-78.)
 Report on the superficial geology of southern New Brunswick. 1878.
 (Part EE, Report of Progress 1877-78.)
- 137.** Report on the geology of southern New Brunswick, embracing the counties
 of Charlotte, Sunbury, Queens, Kings, St. John, and Albert, 1878-79.
 (With L. W. Bailey and R. W. Ells. Part D, Report of Progress, 1878-79.)
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 Scotia. (In part A, Annual Report, 1899.)
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 Scotia. (In part A, Annual Report, 1900.)
 Letter to L. W. Bailey regarding the Cambrian and Silurian rocks of York
 and Carleton counties, New Brunswick. (In L. W. Bailey's summary
 report; part A, Annual Report, 1901.)
 Cambrian rocks and fossils of Cape Breton. (Summary of the work of the
 season. No. [xxv], Summary Report, 1901.)
- 797.** Report on the Cambrian rocks of Cape Breton [Nova Scotia].
- Mechling, William Hubbs**
 Anthropological division. Part I. Ethnology. (d) On Micmac and Malecite
 work, 1911. (In No. [xxxviii], Summary Report, 1911.) See also No.
 1218b.
 Anthropological division. Part I. Ethnology and linguistics. On Malecite
 and Micmac work, 1912. (Summary Report, 1912.) See also No.
 1305c.

Anthropological division. Part I. Ethnology and linguistics. On Malecite and Micmac work, 1913. (Summary Report, 1913.) See also No. 1359b.

1333. Memoir No. 49.—Malecite tales.

Merriam, Clinton Hart

Description of a new red-backed mouse (*Evolomys Dawsoni*) from the head-water of Liard river, North West Territories. (In appendix IV to part B, Annual Report, 1887-88.)

Michel, A.

64. Report on the gold region of Lower Canada. (With T. S. Hunt. Report of Progress, 1863-66.)

403. Reports of Dr. T. Sterry Hunt and Mr. A. Michel on the gold region of the county of Hastings, transmitted by Dr. Hunt to the Hon. Commissioner of Crown Lands, January 29, 1867.

Miller, Willet Green

Report of the special committee for the Lake Superior region. (With F. D. Adams, R. Bell, C. R. Van Hise, C. K. Leith, and A. C. Lane. On the nomenclature and correlation of the geological formations of the United States and Canada. Addressed to the general committee on the relations of the Canadian and the United States Geological Surveys. Synopsis by Bell, in part A, Annual Report, 1904.)

1211. Memoir No. 27. Report of the Commission appointed to investigate Turtle mountain, Frank, Alberta, 1911. (With R. A. Daly, and G. S. Rice.)

Preface (to Guide Book No. 7.)

The Cobalt area. (Guide Book No. 7.)

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Region east of the south end of lake Winnipeg. (No. [xxii], Summary Report, 1912.)

Murray, Alexander (See also in Appendix.)

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On the topography and geology of the Matane, Ste. Anne, and St. John rivers, Gaspé. (Report of Progress, 1845-46.)

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On an examination of the shores, islands, and rivers of lake Huron, including parts of the east coast of Georgian bay and the Spanish river. (Report of Progress, 1848-49.)

On the geology of the peninsula bounded by lakes Huron, St. Clair, and Erie. (Report of Progress, 1850-51.)

On the geology of the region between the Ottawa, the St. Lawrence, and the Rideau rivers, with notes on economic minerals. (Report of Progress, 1851-52.)

On the geology of the country north of lake Ontario, in a general line between the neighbourhood of Kingston and that of lake Simcoe. (Report of Progress, 1852-53.)

Report for the year 1853. On the geology and topography of the Muskoka, Petawawa, Bonnechère, and Madawaska rivers. (Report of Progress, 1853-56.)

Report for the year 1854. On the geology and topography of the valley of the Maganatawan river and parts of the south and east shores of lake Nipissing with several of their more important tributary streams and adjoining lakes. (Report of Progress, 1853-56.)

Report for the year 1855. On fossiliferous rocks of Western Canada, and on the geology and topography of part of the west coast of lake Nipissing and south channel of French river. (Report of Progress, 1853-56.)

Report for the year 1856. On the geology and topography of the Sturgeon, Maskinongé, French, and Wanapitei rivers, and Whitefish river and its lakes. (Report of Progress, 1853-56.)

On the topography and geology of the coast of Georgian bay at the mouths of the French river; on Echo lake and its environs; and on the Huronian limestone near Bruce mine. (Report of Progress, 1857.)

On the topography and geology of the country between the valley of the Thessalon river and the coast of lake Huron, and between the valleys of the Thessalon and the Mississagi. (Report of Progress, 1858.)

Nason, J. R.

Moose Factory. Seasonal or periodic events. (Appendix IX to part C, Report of Progress, 1879-80.)

Statistics of the weather for two years at York and Moose Factories, Hudson bay. (With W. Wood. Appendix XI to part C, Report of Progress, 1879-80.)

Nelson, J. C.

Blackfoot names of a number of places in the North West Territory, for the most part in the vicinity of the Rocky mountains. (Appendix II to part C, Report of Progress, 1882-84.)

Nichols, David Andrew

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Nickerson, William Baker

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Nicolas, Frank James

914. Supplementary list of publications of the Geological Survey of Canada, 1904 and 1905. (Published Feb. 20, 1906.)

956. Catalogue of publications of the Geological Survey of Canada. (To June, 1906.)

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1000. General index to reports, 1885-1906.

O'Neill, John Johnston

Belcœil and Rougemont mountains, Quebec. (No. [xxvii], Summary Report, 1911.)

1311. Memoir No. 43. St. Hilaire (Beheil) and Rougemont mountains, Quebec. Canadian Arctic Expedition, 1914. Geological reconnaissance of the Arctic coast between Demarcation point and the Mackenzie river; with a section inland up the Firth river, Mackenzie district. (No. [xxxvii], Summary Report, 1914.)
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- Ord, Lewis R.**
Summary of explorations in Berthier, Maskinongé, and St. Maurice counties, Quebec. (With R. G. McConnell. Selwyn, in director's summary report, Report of Progress, 1879-80.)
- Osann, Alfred (i.e., Carl Alfred)**
763. Notes on certain Archæan rocks of the Ottawa valley. (Contains also "On the occurrence of apatite and mica north of Ottawa," and "Two Canadian occurrences of graphite." Part O, Annual Report, 1899.)
- Osborn, Henry Fairfield**
774. Contributions to Canadian palæontology, volume III (quarto), part II. On *Vertebrata* of the Mid-Cretaceous of the North West Territory. (With L. M. Lambe.)
- O'Sullivan, Owen**
Survey of the south and west coast of James bay. (In part A, Annual Report, 1904.)
A survey of the coast of Hudson bay from York Factory to Severn river. (No. [xii], Summary Report, 1905.)
On explorations along the proposed route of the Canadian Northern railway, between Split lake and Fort Churchill. (No. [xi], Summary Report, 1906.)
Explorations along the National Transcontinental Railway location from La Tuque westward. (No. [xiii], Summary Report, 1907.)
Survey of the south coast of Hudson bay from the Severn river to cape Henrietta Maria. (No. [xii], Summary Report, 1908.)
- Parks, William Arthur**
Summary of work in the Muskoka district, Ontario. (In part A, Annual Report, 1900.)
The country east of Nipigon lake and river. (In part A, Annual Report, 1901.)
Region lying north-east of lake Nipigon. (In part A (for 1902), Annual Report, 1902-03.)
The geology of a district from lake Timiskaming northward. (In part A, Annual Report, 1904.)
The valley of the Tobique river, N.B. (No. [xxii], Summary Report, 1905.)
The palæontology of the Guelph, Onondaga, and Hamilton formations in western Ontario. (Guide Book No. 4.)
The Palæozoic section at Hamilton, Ontario. (Guide Book No. 4.)
Silurian section at the forks of Credit river, Ontario. (Guide Book No. 5.)
Ordovician section on Credit river, near Streetsville, Ontario. (Guide Book No. 5.)
Geology of selected areas on lakes Erie and Huron in the province of Ontario. (Guide Book No. 5.)
Report on Silurian stromatoporoids from the Yukon-Alaska boundary between the Porcupine and Yukon rivers. (In Memoir No. 67.)
- Parsons, Arthur Leonard**
Annotated guide, Cartier to Coldwell and Coldwell to Port Arthur. The Pre-Cambrian geology of Loon Lake district. The Pre-Cambrian geology of Port Arthur district. (Guide Book No. 8, part I.)
Annotated guide, Winnipeg to Port Arthur. Pre-Cambrian geology in the northern part of Lake of the Woods. (Guide Book No. 8, part III.)

Pearson, William Henry

453. List of Canadian *Hepaticæ*.

Penhallow, David Pearce (See also in Appendix.)

List of fossil plants from the Pleistocene at Greens creek and Besserer's wharf, Ottawa river, Ontario. (In appendix to part G, Annual Report, 1899.)

Determinations of fossil plants from various localities in British Columbia and the North-West Territories, by Professor D. P. Penhallow of McGill University, Montreal, with notes on the geological horizons indicated, by H. M. Ami. (Appendix IV to part A, Annual Report, 1904.) See also No. 493.

1013. Report on Tertiary plants of British Columbia collected by Lawrence M. Lambe in 1906, together with a discussion of previously recorded Tertiary floras.

A report on fossil plants from the International Boundary survey for 1902-05, collected by Dr. R. A. Daly. (Appendix B, Memoir No. 38, part II.)

Poole, Henry Skeffington

803. Report on the coal prospects of New Brunswick. (Part MM, Annual Report, 1900.)

The coal problem in New Brunswick. (In part A, Annual Report, 1901.)

871. Report on the Pictou coal field, Nova Scotia. (Part M, Annual Report, 1901.)

Notes on the geology of Anthracite, Alberta. *(In part A (for 1902), Annual Report, 1902-03.)

The Carboniferous rocks of Chignecto bay [N.B. and N.S.]. (In part A (for 1902), Annual Report, 1902-03.)

953. The barytes deposits of lake Ainslie and North Cheticamp, N.S., with notes on the production, manufacture, and uses of barytes in Canada. (Contains also notes on strontianite.)

The Nanaimo-Comox coal-field [B.C.]. (No. [vii], Summary Report, 1905.)

Porter, John Bonsall

Results of tests of molybdenite ores from Egan township, Ottawa county, and Ross township, Renfrew county, Ontario. (Summarized by Dawson in part A, Annual Report, 1900.)

Report on tests of auriferous black sands from the Atlin district, British Columbia. (In part A, Annual Report, 1900.)

Memorandum *re* coal tests. (Summary Report, 1907.)

Radin, Paul

Anthropological division. Part I. Ethnology and linguistics. On Ojibwa work in southeastern Ontario, 1912. (No. [xlix], Summary Report, 1912.) See also No. 1305c.

1326. Memoir No. 48. Some myths and tales of the Ojibwa of southeastern Ontario.

1342. Museum Bulletin No. 2, IV. Some aspects of puberty fasting among the Ojibwa. See also No. 1342d.

Anthropological division. Part I. Ethnology and linguistics. On Ojibwa work, 1913. (Summary Report, 1913.) See also No. 1359b.

1501. Museum Bulletin No. 10. The social organization of the Winnebago Indians. An interpretation.

1535. Museum Bulletin No. 16. Literary aspects of North American mythology. Division of anthropology. Part I. Ethnology and linguistics. Field work and research. Summary of work among the Ojibwa of various parts of Ontario and adjoining regions of the United States. (Summarized by E. Sapir. Summary Report, 1914.)

Raymond, Percy Edward (See also in Appendix.)

Invertebrate palæontology. (Summary of the work of the year. Summary Report, 1910.)

- Quebec and vicinity. (Guide Book No. 1, part I.)
 Note on fossils at Rivière du Loup. (In "Rivière du Loup" by G. A. Young, Guide Book No. 1, part I.)
 Ordovician of Montreal and Ottawa. (Guide Book No. 3.)
 Notes on fossils from the Yukon-Alaska boundary, between lats. 66° 09' and 67°. (In No. [i], Summary Report, 1911.)
 Notes on fossils from the Roche Miette map-area, Jasper-park, Alberta. (In No. [xv], Summary Report, 1911.)
 Lists of fossils, with notes, from the Ordovician rocks in the areas of the Brechin and Kirkfield sheets (See maps Nos. 1245 and 1246), Lake Simcoe district, Ontario. (In No. [xx], Summary Report, 1911.)
 Notes on Silurian fossils from Knowlton Landing, lake Memphremagog, Quebec. (In No. [xxv], Summary Report, 1911.)
 Palaeontological division. II. Invertebrate. (Summary of work of the year, including field-work in the Ottawa valley, and Quebec city and vicinity. No. [xxxv], Summary Report, 1911.)
- 1240.** Museum Bulletin No. 1.
 IV. Notes on *Cyclocystoides*.
 V. Notes on some new and old trilobites in the Victoria Memorial Museum.
 VI. Description of some new *Asaphidae*.
 VII. Two new species of *Tetradium*.
 VIII. A revision of the species which have been referred to the genus *Bathypurus*.
 See also No. 1240c.
- Lists of fossils, with notes, from the Ordovician rocks in the areas of the Beaverton, Sutton, and Barrie sheets, Lake Simcoe district, Ontario. (In No. [xxviii], Summary Report, 1912.)
 The Trenton group in Ontario and Quebec. (No. [xxxii], Summary Report, 1912.)
 The succession of faunas at Lévis, Quebec. (No. [xxvii], Summary Report, 1913.)
- 1467.** Museum Bulletin No. 5. A *Beatricea*-like organism from the middle Ordovician [Ontario].
 Report on a collection of fossils from lake St. John [Quebec]. Collected by Mr. John A. Dresser. (In Memoir No. 92.)
- Reed, Robert**
 Record of temperature at Laketon, Dease lake, B.C., during portions of the years 1886 and 1887. (No. 4, Appendix VI to part B, Annual Report, 1887-88).
- Reinecke, Leopold** (See also in Appendix.)
 Beaverdell district, west fork of Kettle river, British Columbia. (No. [vii], Summary Report, 1909.)
 Beaverdell district, west fork of Kettle river, British Columbia. (No. [vi], Summary Report, 1910.)
 Beaverdell map-area, Yale district, B.C. (No. [vii], Summary Report, 1911.)
- 1508.** Museum Bulletin No. 11. Physiography of the Beaverdell map-area and the southern part of the interior plateaus of British Columbia.
- Road materials in Ontario. (No. [xxiii], Summary Report, 1914.)
- 1537.** Memoir No. 79. Ore deposits of the Beaverdell map-area.
 Road material surveys in Ontario and Quebec. (No. [xxiii], Summary Report, 1915.)
- 1614.** Memoir No. 85. Road material surveys in 1914. See also Nos. 1625-1627.
- Rice, George Samuel**
1211. Memoir No. 27. Report of the Commission appointed to investigate Turtle mountain, Frank, Alberta, 1911. (With R. A. Daly and W. G. Miller.)

Richardson, James

- Report for the year 1856. On the geology and topography of the island of Anticosti, and the Mingan islands. (Report of Progress, 1853-56.)
- On the topography and geology of Magdalen river and part of the Gaspé peninsula from Magdalen river to Gaspé bay; and of lake St. John. (Report of Progress, 1857.)
- On a portion of the Gaspé peninsula, including an examination of the coast from Marsouin river to rivière du Loup. (Report of Progress, 1858.)
- On the examination of the structure of the Quebec group of rocks in the Eastern Townships, with notes on the economic minerals. (Report of Progress, 1863-66.)
- List of localities in which ores of copper have been met with in rocks of the Quebec group in eastern Canada. (Appendix to, Report of Progress, 1863-66.)
- On the country bounded on the northwest by the St. Lawrence and on the southeast by the Quebec Province line, and extending from the Chaudière river to a point beyond Temiscouata Portage road. (Report of Progress, 1866-69.)
73. On a geological examination of the north shore of the lower St. Lawrence from the Saguenay river to the bay of Seven Islands. (Report of Progress, 1866-69.)
- Report on the country north of lake St. John. (Report of Progress, 1870-71.)
- Report on the coal-fields of the east coast of Vancouver island, with a map of their distribution. (Report of Progress, 1871-72.)
- Report on the coal-fields of Vancouver and Queen Charlotte islands, with a map of the distribution of the former. (Report of Progress, 1872-73.)
95. Report on geological explorations in British Columbia [Vancouver, Texada, and other adjacent islands]. (Report of Progress, 1873-74.)
- Report on explorations in British Columbia. (Report of Progress, 1874-75.)
- Report on the coal-fields of Nanaimo, Comox, Cowichan, Burrard inlet, and Sooke, British Columbia. (Report of Progress, 1876-77.)
- Report of a geological exploration of the Magdalen islands. (Part G, Report of Progress, 1879-80.)

Ries, Heinrich

- The clay and shale deposits of Nova Scotia, and portions of New Brunswick and Prince Edward Island. (No. [xxiii], Summary Report, 1909.)
- Clay and shale deposits of western Canada. (No. [xiii], Summary Report, 1910.)
1113. Memoir No. 16. The clay and shale deposits of Nova Scotia and portions of New Brunswick. (With J. Keele.)
1204. Memoir No. 24. Preliminary report on the clay and shale deposits of the western provinces. (With J. Keele.) See also Nos. 1279, 1324, 1453, and 1455.
- I. Report on progress of investigation of clay resources.
- II. Whiteware materials in Ontario and Quebec. Kaolin near Huberdeau, Quebec.
- (The above two reports are together, No. [xvi], Summary Report, 1911.)
- Clay investigations in western Canada. (No. [xviii], Summary Report, 1912.)
1279. Memoir No. 25. Report on the clay and shale deposits of the western provinces. (Part II.) (With J. Keele.)
- Clays of British Columbia and Alberta. (No. [xxxv], Summary Report, 1913.)
1324. Memoir No. 47. Clay and shale deposits of the western provinces. Part III.
1453. Memoir No. 65. Clay and shale deposits of the western provinces. (Part IV.)

Robb, Charles

- List of localities in which ores of copper have been met with in rocks of the Quebec group in eastern Canada. (Sir W. E. Logan acknowledges his

- indebtedness to C. Robb for a knowledge and description of many of the localities. Report of Progress, 1863-66.)
- Summary of work in New Brunswick. (Logan, in Summary Report, dated 1st May, 1869. (No. 66).)
- On the geology of a part of New Brunswick. (Report of Progress, 1866-69).
- Supplementary report on the geology of northwestern New Brunswick. (Report of Progress, 1870-71.)
86. Records of mines and mineral statistics. (Report of Progress, 1871-72.)
- Report on the coal mines of the eastern or Sydney coal-field of Cape Breton, N.S. (Report of Progress, 1872-73.)
- Report on explorations and surveys in Cape Breton, Nova Scotia, with supplementary report on collieries in operation. (Report of Progress, 1873-74.)
- Report on explorations and surveys in Cape Breton, Nova Scotia. (Report of Progress, 1874-75.)
- Robinson, Clair Williard**
- An investigation of radio-active minerals in eastern Canada. (No. [xxxv], Summary Report, 1914.)
- Rose, Bruce**
- Savona map-area, British Columbia. (No. [xi], Summary Report, 1912.)
- Willowbunch coal area. (No. [xvii], Summary Report, 1913.)
- Reconnaissance along the Red Deer, James, Clearwater, and North Saskatchewan rivers, Alberta. (No. [ix], Summary Report, 1914.)
- Wood Mountain coal area, Saskatchewan. (No. [xvi], Summary Report, 1914.)
- Blairmore map-area. (No. [xii], Summary Report, 1915.)
1138. Memoir No. 89. Wood Mountain-Willowbunch coal area, Saskatchewan.
- Rossi, Auguste J.**
- The smelting of titaniferous iron ores. (Reprint of paper in "The Iron Age," slightly abridged. Appendix II to part J, Annual Report, 1895.)
- Ruedemann, Rudolf**
- Notes on graptolites from Ordovician rocks along the Yukon-Alaska boundary near the Tatonduk river. (In Memoir No. 67.)
- Rüst, David**
441. Contributions to Canadian micro-palæontology, part IV. 6. *Radiolaria* from the Pierre formation of north-western Manitoba.
- St. John, Harold**
- Biological division. Botany. Botanical reconnaissance on the north shore of the gulf of St. Lawrence. (Summary Report, 1915.)
- Salter, John William**
- On *Cyclocystoides*, a new genus of *Echinodermata* from the Lower and Middle Silurian rocks. (With E. Billings. In "Figures and descriptions of Canadian organic remains, Decade III" [No. 425].)
423. Figures and descriptions of Canadian organic remains. Decade I. [Fossils from the Calciferous, Chazy, and Trenton formations at Paquette rapids and Allumette island, Ottawa river, Pontiac county; and Beauharnois, Beauharnois county, Quebec.]
- List of fossils from the Carboniferous outlier in the Flathead valley. (Appendix to part B, Report of Progress, 1882-84.)
- Sapir, Edward**
- Anthropological division. I. Report of field work, Sept.-Dec., 1910. (Including his own among the Nootka Indians, near Alberni, Vancouver island, B.C. No. [xxx], Summary Report, 1910.) See also No. 1218b.
- Anthropological division. Part I. Ethnology. (Summary of work of the year, including his own field-work in Iroquois and Algonkin reservations

- of Ontario and Quebec, 1911. No. [xxxviii], Summary Report, 1911.) See also No. 1218b.
- Anthropological division. Part I. Ethnology and linguistics. (Summary of work of the year.)
Part III. Physical anthropology. (Summary of work of the year.) (Summary Report, 1912.) See also No. 1305c.
- Anthropological division. Part I. Ethnology and linguistics. (Summary of work of the year.)
Part III. Physical anthropology. (Summary of work of the year.) (Summary Report, 1913.) See also No. 1359b.
1437. Memoir No. 62. Abnormal types of speech in Nootka.
1439. Memoir No. 63. Noun reduplication in Comox, a Salish language of Vancouver island.
- Division of anthropology. Part I. Ethnology and linguistics. (Summary of work of the year, including his own field-work among the Nootka Indians, near Alberni, Vancouver island, B.C. Summary Report, 1914.)
1565. Museum Bulletin No. 19. A sketch of the social organization of the Nass River Indians.
- Division of anthropology. Part I. Ethnology and linguistics. (Summary of work of the year. Summary Report, 1915.)
1635. Memoir No. 90. Time perspective in aboriginal American culture, a study in method.

Sauvalle, Marc

- Publishing department. French section. (List of French translations of reports prepared during the year. Summary Report, 1907.)
- Publications. French translation section. (List of reports translated and edited during the year. Summary Report, 1908.)
- Publications. French translations. (List of reports translated and edited during the year. Summary Report, 1909.)
- Publications. French translations. (List of reports translated, with dates of publication. Summary Report, 1910.)
- Publications. French translations. (List of reports translated, with dates of publication. Summary Report, 1911.)
- Publications. French translations. (List of reports translated, with dates of publication. Summary Report, 1912.)
1380. Catalogue des publications en français de la Commission géologique et de la Division des Mines au 1er juillet, 1914.
- Publications. French translations. (List of reports translated, with dates of publication. Summary Report, 1913.)
- 1380a. Publications en français, du Ministère des Mines, parues depuis le catalogue du juillet, 1914. (Commission géologique et Division des Mines).
- Publications. (List of all reports published during the year, including French translations, with dates of publication. Summary Report, 1914.)
- Publications. (List of all reports published during the year, including French translations, with dates of publication. Summary Report, 1915.)
- 1380b. Catalogue des publications en français de la Division des Mines et de la Commission géologique. Edition révisée au 1er janvier, 1917.

Schofield, Stuart James

- Reconnaissance in East Kootenay, B.C. (No. [x], Summary Report, 1909.)
- Reconnaissance in East Kootenay, Cranbrook sheet. (No. [viii], Summary Report, 1910.)
- Reconnaissance in East Kootenay. (No. [x], Summary Report, 1911.)
- The Cordillera. (Guide Book No. 9.)
- Elko to Kootenay lake, British Columbia. (Guide Book No. 9.)
- Reconnaissance in East Kootenay, British Columbia. (No. [xvii], Summary Report, 1912.)

1342. Museum Bulletin No. 2. I. The origin of granite (micropegmatite) in the Purcell sills [British Columbia]. See also No. 1342a.
 V. The Pre-Cambrian (Beltian) rocks of south-eastern British Columbia and their correlation. See also No. 1342e.
 Reconnaissance in East Kootenay, B.C. (Includes a preliminary report on the plants from the Pleistocene deposits, by A. Hollick. No. [xiii], Summary Report, 1913.)
 Ainsworth mining camp, British Columbia. (No. [iv], Summary Report, 1914.)
 Reconnaissance in West Kootenay [B.C.]. (No. [v], Summary Report, 1914.)
1505. Memoir No. 76. Geology of Cranbrook map-area, British Columbia. Kootenay district, British Columbia. (No. [viii], Summary Report, 1915.)

Scudder, Samuel Hubbard

109. The insects of the Tertiary beds at Quesnel (British Columbia). (Appendix to report by G. M. Dawson, Report of Progress, 1875-76.)
118. Additions to the insect fauna of the Tertiary beds at Quesnel, British Columbia. (Report of Progress, 1876-77.)
110. The fossil insects collected in 1877 by Mr. G. M. Dawson, in the interior of British Columbia. (Appendix A to part B, Report of Progress, 1877-78.)
575. Contributions to Canadian palaeontology, volume II, part I. Canadian fossil insects, myriapods, and arachnids. See also Nos. 479, 480, and 481.
710. Contributions to Canadian palaeontology, volume II, part II. Canadian fossil insects. (Contains *Coleoptera* from interglacial clays at Toronto, and appendix by A. D. Hopkins on scolytid borings from the same locality.)

Selwyn, Alfred Richard Cecil (See also in Appendix.)

67. Summary Report on the Geological Survey. Dated 2nd May, 1870.
 Summary report of the director. Dated 1st May, 1871. (Report of Progress, 1870-71.)
 Notes and observations on the gold fields of Quebec and Nova Scotia. (Report of Progress, 1870-71.)
 Summary report of the director. Dated 20th May, 1872. (Report of Progress, 1871-72.)
 Journal and report of preliminary explorations in British Columbia. (Report of Progress, 1871-72.)
 Summary report of the director. Dated May, 1873. (Report of Progress, 1872-73.)
 Notes of a preliminary geological reconnaissance from lake Superior, by the English and Winnipeg rivers, to Fort Garry. (Report of Progress, 1872-73.)
 Report upon the Acadia iron ore deposits of Londonderry, Colchester county, N.S. (Report of Progress, 1872-73.)
 Summary report of the director. Dated May, 1874. (Report of Progress, 1873-74.)
 Correspondence *re* proposed operations during ensuing summer. (Appendix I to Summary Report of the Director, Report of Progress, 1873-74.)
 Observations in the North West Territory on a journey across the plains from Fort Garry to Rocky Mountain House, returning by the Saskatchewan river and lake Winnipeg. (Report of Progress, 1873-74.)
 Summary report of the director. Dated 1st May, 1875. (Report of Progress, 1874-75.)
 Summary report of the director. Dated May, 1876. (Report of Progress, 1875-76.)
 Report on exploration in British Columbia in 1875. (Report of Progress, 1875-76.)

- Boring made on Swan river, near Fort Pelly, in 1875. (Report of Progress, 1875-76.)
- Notes on a stratigraphical collection of Canadian rocks. (In "Descriptive Catalogue etc. Philadelphia International Exhibition, 1876," [No. 405].)
- Summary report of the director. Dated May, 1877. (Report of Progress, 1876-77.)
407. List of exhibits in the Canadian mineralogical section at the Paris Universal Exhibition, 1878.
- Summary report of the director, from 1st May to 31st December, 1878, (Report of Progress, 1877-78.)
- Report of observations on the stratigraphy of the Quebec group and the older crystalline rocks of Canada. (Part A, Report of Progress, 1877-78.)
- Summary report of the director, from 1st January to 31st December, 1879. (Report of Progress, 1878-79.)
410. Descriptive sketch of the physical geography and geology of the Dominion of Canada. (With G. M. Dawson.)
- Summary report of the director, from 1st January to 31st December, 1880. (Report of Progress, 1879-80.)
- Report on boring operations in the Souris River valley, 1880. (Part A, Report of Progress, 1879-80.)
- Summary reports of the director for the calendar years 1881 and 1882. (Report of Progress, 1880-82.)
- Geological nomenclature and the colouring and notation of geological maps. With index to colours and signs. (Report of Progress, 1880-82.)
- Notes on the geology of the south-eastern portion of the province of Quebec. (Part A, Report of Progress, 1880-82.)
- Note on map No. 160. (Separate page inserted after part C, Report of Progress, 1880-82.)
- Summary report of the director for the calendar year 1883, and observations on the work of 1884. (Report of Progress, 1882-84.)
209. Summary Report of the operations of the Geological and Natural History Survey to 31st December, 1885, being part III, Annual Report of the Department of the Interior, 1885. (This was the first separate issue of part III for distribution by the Geological Survey.)
211. Summary Report of the operations of the Geological Survey for the years 1884 and 1885. (Part A, Annual Report, 1885.)
409. Descriptive catalogue of a collection of the economic minerals of Canada. Colonial and Indian Exhibition, London, 1886.
- {232. Summary Report of the operations of the Geological and Natural History
234. Survey to 31st December, 1886, being part III, Annual Report of the Department of the Interior, 1886. (Also issued as part A, Annual Report, 1886.)
- {256. Summary Report of the operations of the Geological and Natural History
259. Survey to 31st December, 1887, being part III, Annual Report of the Department of the Interior, 1887. (Also issued in part A, Annual Report, 1887-88.)
- {257. Summary Report of the operations of the Geological and Natural History
259. Survey to 31st December, 1888, being part III, Annual Report of the Department of the Interior, 1888. (Also issued in part A, Annual Report, 1887-88.)
- {291. Summary Report of the operations of the Geological and Natural History
293. Survey to 31st December, 1889, being part III, Annual Report of the Department of the Interior, 1889. (Also issued as part A, Annual Report, 1889.)
320. Summary Report of the Geological Survey Department for the year 1890. (The first issued in blue-book form. Also part A, Annual Report, 1890-91, which was not issued as a separate of the volume.)

- {321. Summary Report of the Geological Survey Department for the year 1891.
 {323. (Blue-book form, and part AA, Annual Report, 1890-91.)
 {352. Summary Report of the Geological Survey Department for the year 1892.
 {355. (Blue-book form, and part A, Annual Report, 1892-93.)
 {353. Summary Report of the Geological Survey Department for the year 1893.
 {356. (Blue-book form, and part AA, Annual Report, 1892-93.)

Senécal, Clovis-Omer

- Summary of mapping-work, by the geographer and chief draughtsman, including detailed lists of maps published and in preparation. (In part A, Annual Report, 1899.)
 Summary of mapping-work, by the geographer and chief draughtsman, including detailed lists of maps published and in preparation. (In part A, Annual Report, 1900.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation, and notes on a line run along the Intercolonial and Dominion Atlantic railways from Bedford basin to Hantsport, Nova Scotia. In part A, Annual Report, 1901.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In part A (for 1902), Annual Report, 1902-03.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In part AA (for 1903), Annual Report, 1902-03.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation, and notes on traverse lines run between Port George and Bridgewater and between Middleton junction and Hantsport, Nova Scotia. In part A, Annual Report, 1904.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In Summary Report, 1905.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In Summary Report, 1906.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In Summary Report, 1907.)
 Mapping and engraving. (Includes detailed lists of maps published and in preparation. In Summary Report, 1908.)
 Mapping and engraving. (Includes detailed list of maps published. In Summary Report, 1909.)
 Mapping and engraving division. (Includes detailed lists of maps published and in preparation. In Summary Report, 1910.)
 Mapping and engraving division. (Includes detailed lists of maps published and in preparation. In Summary Report, 1911.)
 Draughting division. (Includes detailed lists of maps published and in preparation. In Summary Report, 1912.)
 Draughting division. (Includes detailed list of maps published and in preparation, and list of guide maps for the Twelfth International Geological Congress published during the calendar year 1913. In Summary Report, 1913.)
 Geographical and draughting division. (Includes detailed lists of maps published and in preparation. In Summary Report, 1914.)
 Geographical and draughting division. (Includes detailed lists of maps published and in preparation. In Summary Report, 1915.)

Sheppard, Albert Campbell Tremain

- Topographical division. Part I. Field work. (d) Slocan map-area, British Columbia. (Summary Report, 1911.)
 Topographical division. Part I. St. John map-sheet, New Brunswick. (Summary Report, 1912.) See also No. 1305b.
 Topographical division. Part I. Crownsnest sheet, British Columbia and Alberta. (Summary Report, 1913.) See also No. 1359a.
 Topographical division. Field work. Flathead and Crownsnest sheets, British Columbia and Alberta. (Summary Report, 1914.)

Shimer, Hervey Woodburn

Lake Minnewanka section [near Banff, Alberta]. (No. [x], Summary Report, 1910.)

Shutt, Frank Thomas

Report on soil from Black river, a branch of the Abitibi river, lat. 48° 38', long. 80° 27', Quebec. (In No. [x], Summary Report, 1901.)

Preliminary report, on soil and subsoil, collected near Saskatoon or Service-berry lake at the west end of the Grande Prairie, lat. 55° 15', long. 119° 13', Peace River district. (Appendix III to No. 855.)

Slipper, Stanley Eades

The Sheep River map-area, Alberta. (No. [x], Summary Report, 1914.)

Water and borings division. Calgary gas and oil field. (No. [xli], Summary Report, 1914.)

Boring operations in southern Alberta. (No. [xv], Summary Report, 1915.)

Smith, Harlan Ingersoll (See also in Appendix.)

Anthropological division. Part II. Archæology. (Summary of the work of the year. Summary Report, 1911.) See also No. 1218b.

1290. The archæological collection from the southern interior of British Columbia. Museum of the Geological Survey, Canada. Archæology.

Anthropological division. Part II. Archæology. (Summary of the work of the year, including his own field-work in Ontario, chiefly near Roebuck. Summary Report, 1912.) See also No. 1305c.

Anthropological division. Part II. Archæology. (Summary of the work of the year, including his own field-work from Nova Scotia to British Columbia. No. [xlvi], Summary Report, 1913.) See also No. 1359b.

Division of anthropology. Part II. Archæology. (Summary of the work of the year, including his own field-work on the shell-heaps of Merigomish harbour, N.S. No. [xliii], Summary Report, 1914.)

Division of anthropology. Part II. Archæology. (Summary of the work of the year, including his own field-work in British Columbia. No. [xxxviii], Summary Report, 1915.)

Smith, John Bernhard

List of *Coleoptera* collected by J. R. Spencer at Fort Churchill. (In appendix V to part DD, Report of Progress, 1882-84.)

Smith, Joseph Lionel

Observations on the history and statistics of the trade and manufacture of Canadian salt. (Report of Progress, 1874-75.)

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135. Notes on *Crustacea* collected by Dr. G. M. Dawson at Vancouver and the Queen Charlotte islands. (Appendix D to part B, Report of Progress, 1878-79.)

List of *Crustacea* from Port Burwell, collected by Dr. R. Bell in 1884. (Appendix IV to part DD, Report of Progress, 1882-84.)

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Summary of explorations and surveys in the area of the Hunters Island sheet (map No. 342) and Seine River sheet (map No. 560) Rainy River district, Ontario. (In part A (for 1888), Annual Report, 1887-88.)

Summary of surveys in the areas of the Lake Shebandowan sheet (map No. 589), the Seine River sheet (map No. 560), and the Hunters Island sheet (map No. 342). Thunder Bay and Rainy River districts, Ontario. (Lawson, in part A, Annual Report, 1888-89.)

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- Summary of explorations and surveys in the areas of the Seine River sheet (map No. 560), the Manitou Lake sheet (map No. 720), and the Ignace sheet (map No. 663), Rainy River district, Ontario. (Selwyn, in part AA (for 1891), Annual Report, 1890-91.)
327. Report on the geology of Hunters island and adjacent country. (Part G. Annual Report, 1890-91.)
- Summary of explorations and surveys in the area of the Seine River sheet (map No. 560), the Rainy Lake sheet (map No. 373), the Manitou Lake sheet (map No. 720), and the Ignace sheet (map No. 663), Rainy River and Thunder Bay districts, Ontario; with note on mining on Lake of the Woods and Rainy lake. (Selwyn, in part A (for 1892), Annual Report, 1892-93.)
- Speck, Frank Gouldsmith**
1310. Memoir No. 42. The double-curve motive in northeastern Algonkian art.
1469. Memoir No. 70. Family hunting territories and social life of various Algonkian bands of the Ottawa valley.
1470. Memoir No. 71. Myths and folk-lore of the Timiskaming Algonquin and Timagami Ojibwa.
1499. Memoir No. 75. Decorative art of Indian tribes of Connecticut.
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- Report on the country between the upper Assiniboine river and lakes Winnipegosis and Manitoba. (Report of Progress, 1874-75.)
- Niagara falls and Niagara district. (No. [xvii], Summary Report, 1905.)
970. The falls of Niagara, their evolution and varying relations to the Great Lakes; characteristics of the power, and the effects of its diversion.
- Spencer, Miles**
- Notes on the breeding habits of certain mammals, from personal observations and enquiries from Indians. (Appendix III to part J, Annual Report, 1887-88.)
- Springer, Frank**
1150. Memoir No. 15. On a Trenton echinoderm fauna at Kirkfield, Ontario.
- Stansfield, Edgar**
- Coking tests on coal from Tantalus mine [Yukon]. (Appendix III to Memoir No. 5.)
- Stansfield, John**
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1487. Memoir No. 73. The Pleistocene and Recent deposits of the island of Montreal.
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- Stauffer, Clinton Raymond**
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1248. Memoir No. 34. The Devonian of southwestern Ontario.
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Stopes, Marie Carmichael

Fern ledges (near St. John, N.B.). (Guide Book No. 1, part II.)

1309. Memoir No. 41. The "Fern ledges" Carboniferous flora of St. John, New Brunswick.

Stupart, Robert Frederic (Sir)

Climate of Dawson, Yukon. (With John Macoun's report in part A (for 1902), Annual Report, 1902-03.)

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Taverner, Percy Algernon (See also in Appendix.)

1234. On the collection of zoological specimens for the Victoria Memorial Museum. Zoology.

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1482. Museum Bulletin No. 7. A new species of *Dendragapus* (*Dendragapus obscurus flemingi*) from southern Yukon Territory.

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1513. Museum Bulletin No. 13. The double-crested cormorant (*Phalacrocorax auritus*) and its relation to the salmon industries on the gulf of St. Lawrence.

Biological division. Zoology. (Summary of the work of the year, including his own field-work around Chaleur bay, New Brunswick and Quebec. Summary Report, 1914.) See also No. 1557.

Biological division. Zoology. (Summary of the work of the year to Nov. 15th, including his own field-work along the north shore of the gulf of St. Lawrence, 1915. Summary Report, 1915.) See also No. 1575.

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Field work on the Pleistocene deposits of south-western Ontario. (No. [xv], Summary Report, 1908.)

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454. Comparative vocabularies of the Indian tribes of British Columbia. (With G. M. Dawson.)

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1441. Museum Bulletin No. 3. The Anticosti Island faunas.

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Summary of explorations in Alberta, south of the North Saskatchewan river, and north of lat. 51° 6', and between long. 110° and 115° 15' west. (In part A (for 1885), Annual Report, 1885.)

Summary of explorations in Alberta, south of the North Saskatchewan river, and north of lat. 51° 6', and between long. 110° and 115° 15' west. (In part A, Annual Report, 1886.)

237. Report on a part of northern Alberta and portions of adjacent districts of Assiniboia and Saskatchewan, embracing the country lying south of the North Saskatchewan river and north of lat. 51° 6', and between long. 110° and 115° 15' west. (Part E, Annual Report, 1886.)

Summary of explorations in the region of the Duck and Riding mountains, southern Manitoba. (In part A (for 1887), Annual Report, 1887-88.)

Summary of work in southern Manitoba including lakes Manitoba and St. Martin. (In part A (for 1888), Annual Report, 1887-88.)

264. Notes to accompany a preliminary map of the Duck and Riding mountains in northwestern Manitoba. (Part E, Annual Report, 1887-88.)

Summary of an examination of portions of the shores and islands of lakes Winnipeg, St. Martin, Manitoba, and Winnipegosis, and the adjacent country, southern and southwestern Manitoba. (In part A, Annual Report, 1888-89.)

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Summary of an examination of the east shore of lake Winnipeg between Berens river and Red river, and explorations and surveys of the principal streams discharging into that portion of the lake lying south of the straits at Dog head. (In part AA (for 1891), Annual Report 1890-91.)

325. Report on northwestern Manitoba, with portions of the adjacent districts of Assiniboia and Saskatchewan. (Part E, Annual Report, 1890-91.)
Introduction [on the stratigraphical position of the beds from which the fossils (*Radiolaria*) were collected]. (In "Contributions to Canadian Palæontology, part IV." [No. 441.]
Summary of an exploration in northern Saskatchewan between lake Athabaska and the Churchill river, with a description of the route followed between the Churchill and Saskatchewan rivers, and observations made in the vicinity of Prince Albert. (In part A (for 1892), Annual Report, 1892-93.)
Letter regarding the exploration of north shore of lake Athabaska and telegram announcing arrival at West Selkirk after crossing the "barren grounds" and exploring Chesterfield inlet and the west shore of Hudson bay. (In part AA (for 1893), Annual Report, 1892-93.)
Summaries of explorations, in 1893 and 1894, in the region lying north of lat. 59° and west of Hudson bay, including the Doobaunt [Dubawnt], Kazan, and Ferguson rivers, Chesterfield inlet, the coast of Hudson bay from Chesterfield inlet to Fort Churchill, and two routes travelled between Churchill and Nelson rivers. (In part A, Annual Report, 1894.)
Summary of an exploration of the east shore and rivers of lake Winnipeg north of Dog head, Manitoba. (In part A, Annual Report, 1895.)
601. Report on the country between Athabaska lake and Churchill river, with notes on two routes travelled between the Churchill and Saskatchewan rivers. (With D. B. Dowling. Part D, Annual Report, 1895.)
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618. Report on the Dubawnt, Kazan, and Ferguson rivers, and the northwest coast of Hudson bay; and on two overland routes from Hudson bay to lake Winnipeg. (Part F, Annual Report, 1896.)
Summary of work on lake St. Martin, lake Manitoba, between Shoal lake and lake Winnipeg, and in the vicinity of Stony mountain, Manitoba. (In part A, Annual Report, 1897.)
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705. Report on the east shore of lake Winnipeg and adjacent parts of Manitoba and Keewatin. (Compiled by D. B. Dowling. Part G, Annual Report, 1898.)
786. Report on explorations in the north-eastern portion of the district of Saskatchewan and adjacent parts of the district of Keewatin. (Part F, Annual Report, 1900.)

Uglov, William Lawrence

Port Arthur to Winnipeg via Canadian Northern railway. (Guide Book No. 8, part I.)

Ulrich, Edward Oscar

439. Contributions to the micro-palæontology of the Cambro-Silurian rocks of Canada, part II. 4. On some *Polyzoa* (*Bryozoa*) and *Ostracoda* from the Cambro-Silurian rocks of Manitoba.
List of fossils collected by W. A. Johnston at Longford and vicinity of Uphill, Ontario. (Appendix to No. [xiv], Summary Report, 1908.)
Report on fossils collected by W. A. Johnston from the supposed Black River and Lowville limestones of the vicinity of lake Couchiching, Ontario. (Appendix to No. [xiii], Summary Report, 1909.)
List of fossils from St. Hilaire, Quebec, as provisionally determined June 30, 1907, by Dr. E. O. Ulrich. Collected by R. Harvie, jr. (Appendix B to Memoir No. 7.)

Upham, Warren

296. Report of exploration of the glacial lake Agassiz in Manitoba. (Part E, Annual Report, 1888-89.)

Vennor, Henry George

- Summary of work, chiefly in Addington and Frontenac counties, Ontario. (Selwyn, in Summary Report (No. 67), dated 2nd May, 1870.)
70. On the geology and economic minerals of parts of Hastings, Addington, and Peterborough counties [Ontario]. (Report of Progress, 1866-69.)
Abstract of a report on the geology of parts of the counties of Frontenac, Leeds, and Lanark [Ontario]. (Report of Progress, 1870-71.)
85. Progress report of explorations and surveys in the counties of Leeds, Frontenac, and Lanark, with notes on the gold of Marmora. (Report of Progress, 1871-72.)
Report of explorations and surveys in the counties of Addington, Frontenac, Leeds, and Lanark [Ontario]. (Report of Progress, 1872-73.)
Report of explorations and surveys in Frontenac, Leeds, and Lanark counties, with notes on the plumbago of Buckingham, and apatite of Templeton and Portland townships, Ottawa county. (Report of Progress, 1873-74.)
Progress report of explorations and surveys in the rear portions of Frontenac and Lanark counties, together with notes on some of the economic minerals of Ontario. (Report of Progress, 1874-75.)
Summary of work in Lanark and Renfrew counties, Ontario. (In director's summary report, with remarks by Selwyn, Report of Progress, 1875-76.)
Progress report of explorations and surveys made during the years 1875 and 1876 in the counties of Renfrew, Pontiac, and Ottawa, together with additional notes on the iron ores, apatite, and plumbago deposits of Ottawa county. (Report of Progress, 1876-77.)
Summary of work on the phosphate-bearing rocks in Ottawa and Grenville region, southwestern Quebec. (Selwyn, in director's summary report, Report of Progress, 1877-78.)
Statement, in anticipation of a final report (not furnished) of general conclusions regarding the anorthosites and limestones in Argenteuil, Terrebonne, and Montcalm counties, Quebec. (In director's summary report, Report of Progress, 1879-80.)

Wait, Frank Goodall (See also under **Hoffmann**.)

The chemical laboratory. (Summary of the work of the year ending November 30, 1907. Summary Report, 1907.)

Walcott, Charles Doolittle

Cambrian of the Kicking Horse valley, B.C. (No. [xiii], Summary Report, 1911.)
Notes on fossils from limestone of Steeprock lake, Ontario. (In Memoir 28.)
See also No. 1024.

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Land and fresh-water shells. (In No. 1234.)

Walker, Thomas Leonard

The Muskoka district [Ontario]. (No. [xvii], Summary Report, 1905.)
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Report of operations in Manitoba with the diamond-pointed steam drill, 1873. (Appendix II to summary report of the director, Report of Progress, 1873-74.)

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Division of anthropology. Part I. Ethnology and linguistics. Field work and research. Summary of work among the Iroquois of Six Nations reserve, Ontario. (Sapir, in Summary Report, 1914.)

1612.

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Summary of work south of the St. Lawrence river from lake Memphremagog north and northeast along the New Hampshire and Maine boundaries. (Selwyn, in director's summary report, Report of Progress, 1879-80.)

Latitudes determined in British Columbia and the North-West Territory, 1875. (In Appendix III to part B, Report of Progress, 1879-80.)

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Summary of work, including field-work in the vicinity of Quebec city and in the Eastern Townships, Quebec. (Whiteaves, in part A (for 1885), Annual Report, 1885.)

Summary of field-work in Alberta, Saskatchewan, Ontario, and Quebec, collecting fossils. (Whiteaves, in part A, Annual Report, 1888-89.)

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Summary of work, including field-work in Nova Scotia and Quebec. (In part AA (for 1893), Annual Report, 1892-93.)

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Opinion regarding the age of fossils from the Horton and Riversdale formations, Nova Scotia, and from the plant-bearing beds near St. John, N.B. (In report of H. M. Ami, summarized by J. F. Whiteaves, in part A, Annual Report, 1899.)

- The flora of the Gaspe sandstone [Quebec]. (Guide Book No. 1, part I.)
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- Summary of work in the Kingston and Pembroke mining district, Ontario. (In summary report of division of mineral statistics and mines, in part A (for 1892), Annual Report, 1892-93.)
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 Summary of mapping work, by the geographer and chief draughtsman, including detailed lists of maps published and in preparation. (In part A, Annual Report, 1894.)
 Summary of mapping work, by the geographer and chief draughtsman, including detailed list of maps published and in preparation; and of his field-work on a traverse-line between Gelert, Haliburton county, and Waubaushene, Simcoe county, Ontario. (In part A, Annual Report, 1895.)
568. List of publications of the Geological Survey of Canada. (Published 1895.)
 Summary of mapping work, by the geographer and chief draughtsman, including detailed list of maps published and in preparation; and of his field-work in Haliburton, Hastings, and Lennox and Addington counties, Ontario. (In part A, Annual Report, 1896.)
 Summary of mapping work, by the geographer and chief draughtsman including detailed list of maps published and in preparation. (In part A, Annual Report, 1897.)
 Summary of mapping work, by the geographer and chief draughtsman, including detailed list of maps published and in preparation; and of his field-work on traverse-lines from Ottawa to Sharbot lake, Carleton Junction to Chalk River, and Renfrew to Barryvale, Ontario, with notes on positions determined and magnetic declinations. (In part A, Annual Report, 1898.)
745. Altitudes in the Dominion of Canada, with a relief map of North America.
- Whiteaves, Joseph Frederick** (See also Appendix for many of his papers.)
97. Notes on the Cretaceous fossils collected by Mr. James Richardson at Vancouver and the adjacent islands. (Report of Progress, 1873-74.)
434. Mesozoic fossils, volume I, part I. On some invertebrates from the coal-bearing rocks of the Queen Charlotte islands, collected by J. Richardson in 1872.
 Notes on some of the fossils collected during the expedition. (Appendix II to "Report on explorations in British Columbia in 1875," by A. R. C. Selwyn, Report of Progress, 1875-76.)
 Notes on fossils from the Grand rapid, Mattagami river, Ontario. (In report by R. Bell, Report of Progress, 1875-76.)
 Summary of work of the palæontologist. (Selwyn, in director's summary report, Report of Progress, 1876-77.)
116. Notes on some Jurassic fossils collected by Mr. G. M. Dawson in the coast range of British Columbia. (Report of Progress, 1876-77.)
 Summary of work of the palæontological branch, including field-work in the Eastern Townships, Gaspé, and the vicinity of Quebec city, Que. (Selwyn, in director's summary report, Report of Progress, 1877-78.)
 Provisional list of fossils collected between the Long portage of the Missinaibi branch of the Moose river and Moose Factory. (In part C, Report of Progress, 1877-78.)

436. Mesozoic fossils, volume I, part II. On the fossils of the Cretaceous rocks of Vancouver and adjacent islands in the strait of Georgia.
 Summary of work of the palæontological and natural history branch. (Selwyn, in director's summary report, Report of Progress, 1878-79.)
 List of Tertiary fossils from Graham island, Queen Charlotte islands, British Columbia. (In part B, Report of Progress, 1878-79.)
134. On some marine *Invertebrata* from the Queen Charlotte islands. (Appendix C to part B, Report of Progress, 1878-79.)
 On some Silurian and Devonian fossils from Manitoba and the valleys of the Nelson and Churchill rivers, for the most part collected by Dr. R. Bell in the summer of 1879. (Appendix I to part C, Report of Progress, 1878-79.)
 List of fresh water *Mollusca* from Manitoba and the valley of the Nelson river. (Appendix III to part C, Report of Progress, 1878-79.)
 Summary of work of the palæontological branch, including field-work in Scaumenac bay, Quebec. (Selwyn, in director's summary report, Report of Progress, 1879-80.)
 List of fossils collected by Dr. R. Bell in Manitoba during the season of 1880. (Appendix I to part C, Report of Progress, 1879-80.)
Mollusca. (Appendix IV to part C, Report of Progress, 1879-80.)
 Summary of work of the palæontological branch, including field-work in Quebec and New Brunswick. (Selwyn, in director's summary report, for 1881), Report of Progress, 1880-82.)
 Summary of work of the palæontological branch. (Selwyn, in director's summary report for 1882), Report of Progress, 1880-82.)
433. Palæozoic fossils, volume III, part I. 1. On some new, imperfectly characterized, or previously unrecorded species of fossils from the Guelph formation of Ontario.
437. Mesozoic fossils, volume I, part III. On the fossils of the coal-bearing deposits of the Queen Charlotte islands collected by G. M. Dawson in 1878.
 Summary of work of the palæontological and natural history branch, including field-work in the North West Territories, Ontario, and Quebec. (Selwyn, in director's summary report for 1883), Report of Progress, 1882-84.)
 List of marine invertebrates from Hudson strait, collected by Dr. R. Bell in 1884. (In appendix IV to part DD, Report of Progress, 1882-84.)
442. Contributions to Canadian Palæontology, volume I, part I. 1. Report on the *Invertebrata* of the Laramie and Cretaceous rocks of the vicinity of the Bow and Belly rivers and adjacent localities in the North-West Territory.
 Summary of work of the palæontological branch, including field-work in Saskatchewan, Alberta, Manitoba, and Quebec. (Selwyn, in part A for 1884), Annual Report, 1885.)
 Summary of work of the palæontological and zoological branch, including field-work in the vicinity of Quebec city and the Eastern Townships, Quebec. (Selwyn, in part A for 1885), Annual Report, 1885.)
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 Notes on some Mesozoic fossils from various localities on the coast of British Columbia, for the most part collected by Dr. G. M. Dawson in the summer of 1885. (Appendix I to part B, Annual Report, 1886.)
 On some fossils from the Cretaceous and Laramie rocks of the Saskatchewan and its tributaries, collected by Mr. J. B. Tyrrell in 1885 and 1886. (Appendix I to part E, Annual Report, 1886.)
 Summary of work of the palæontological and zoological divisions, including field-work in Quebec. (In part A for 1887), Annual Report, 1887-88.)

- Summary of work of the palæontological and zoological divisions, including field-work in Manitoba, North West Territory, Ontario, Quebec, Nova Scotia, and New Brunswick. (In part A (for 1888), Annual Report, 1887-88.)
443. Contributions to Canadian palæontology, volume I, part II. 2. On some fossils from the Hamilton formation of Ontario, with a list of the species at present known from that formation and province.
- Summary of work of the palæontological and zoological divisions, including field-work in Alberta, Saskatchewan, Ontario, and Quebec. (In part A, Annual Report, 1888-89.)
- Summary of work of the palæontological and zoological divisions, including field-work in Quebec, Ontario, and Manitoba. (Selwyn, in part A (for 1890), Annual Report, 1890-91.)
- Summary of work of the palæontological and zoological divisions, including field-work in Quebec, Ontario, and British Columbia. (Selwyn, in part AA (for 1891), Annual Report, 1890-91.)
444. Contributions to Canadian palæontology, volume I, part III. 5. The fossils of the Devonian rocks of the Mackenzie River basin.
445. Contributions to Canadian palæontology, volume I, part IV. 6. The fossils of the Devonian rocks of the islands, shores, or immediate vicinity of lakes Manitoba and Winnipegosis.
- Summary of work of the palæontological and zoological divisions, including field-work in Quebec. (Selwyn, in part A (for 1892), Annual Report, 1892-93.)
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia and Quebec. (Selwyn, in part AA (for 1893), Annual Report, 1892-93.)
- Summary of work of the palæontological and zoological divisions. (In part A, Annual Report, 1894.)
564. Palæozoic fossils, volume III, part II.
2. Revision of the fauna of the Guelph formation of Ontario, with descriptions of a few new species.
3. Systematic list, with references, of the fossils of the Hudson River or Cincinnati formation at Stony mountain, Manitoba.
- Summary of work of the palæontological and zoological divisions, including field-work in Quebec and Nova Scotia. (In part A, Annual Report, 1895.)
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia and Ontario. (In part A, Annual Report, 1896.)
615. Palæozoic fossils, volume III, part III. 4. The fossils of the Galena-Trenton and Black River formations of lake Winnipeg and its vicinity.
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia, Ontario, and Alberta. (In part A, Annual Report, 1897.)
659. Contributions to Canadian palæontology, volume I, part V (and last).
7. On some additional or imperfectly understood fossils from the Hamilton formation of Ontario, with a revised list of the species therefrom.
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia, Ontario, and Alberta. (In part A, Annual Report, 1898.)
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia and New Brunswick. (In part A, Annual Report, 1899.)
706. Mesozoic fossils, volume I, part IV. On some additional or imperfectly understood fossils from the Cretaceous rocks of the Queen Charlotte islands, with a revised list of the species from these rocks.
- Summary of work of the palæontological and zoological divisions, including field-work in Nova Scotia. (In part A, Annual Report, 1900.)

722. Catalogue of the marine *Invertebrata* of Eastern Canada.
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494. Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan river and Sutton Mill lakes, Keewatin, collected by D. B. Dowling in 1901, with descriptions of such species as appear to be new. (Appendix I to part F, Annual Report, 1901.)
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492. List of land and fresh-water shells from the district of Keewatin, collected by Mr. Wm. McInnes in 1904. (In part A, Annual Report, 1904.)
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6. The Canadian species of *Plectoceras* and *Barrandeoceras*.
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APPENDIX.

LIST OF SEPARATES OF SOME PAPERS IN PUBLICATIONS OTHER THAN THOSE OF THE GEOLOGICAL SURVEY, BY MEMBERS OF THE STAFF AND A FEW OTHERS.

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LIST OF SEPARATES OF SOME PAPERS IN PUBLICATIONS
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This list is not intended to be a bibliography of the authors noted, but includes only certain papers by them of which separates have been distributed by the Survey. Copies of some of these are still on hand, and, whilst not available for general distribution, application may be made for them in special cases.

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