

LIST OF OCCURRENCES

1. Stromatolites	Rensselaer Bay Fm. (Cambrian?)	Blackadar 1957, Roy. Soc. Can., Spec. Pub. 2, p. 99. Christie 1967, GSC Mem. 347, pp. 15-16. Kerr 1967, GSC Paper 67-21, pt. I, p. 30.	27. Stromatolites	Purcell Supergp.: Mt. Nelson Fm. Roosville Fm. Dutch Creek Fm. Gateway Fm. Sheppard Fm. Siyeh Fm. Altyn Fm.	? Bauerman 1884, GSC Rept. Prog. 1882-84, pt. B, pp. 28-32. Daly 1912, GSC Mem. 38, pt. 1, pp. 56, 65, 101. Schofield 1915, GSC Mem. 76, pp. 22, 34, 36. Fenton and Fenton 1931, Jour. Geol. vol. 39, pp. 670-686. Hume 1933, GSC Sum. Rept. 1932, pt. B, pp. 5-6. Fenton and Fenton 1937, GSA Bull. vol. 48, pp. 1873-1970. Hage 1943, GSC Map 739A, Legend. Douglas 1952, GSC Paper 52-10, notes. Leech 1958, GSC Paper 58-10, pp. 5, 9. Norris 1959, GSC Map 5-1959, Legend. Price 1962, GSC Paper 61-24, pp. 3, 8, 11, 12. Price 1964, Bull. Can. Pet. Geol., vol. 12, pp. 399-426. Price 1965, GSC Mem. 336, pp. 13, 15, 18, 149-151. Eardley 1965, General College Geology, pp. 261, 316.	41. Microstructures	Temiscamie Iron-Formation	LaBerge 1967, GSA Bull., vol. 78, p. 334.
2. Stromatolites	Ulukhan Gp.	Jackson <i>et al.</i> , 1969, GSC Paper, in press.	28. Atikokania lawsoni	Steeprock Gp. Atikokania-irregularis	Walcott 1912, GSC Mem. 28, p. 17. Rothpletz 1916, Abh. Bayer. Akad. Wiss., vol. 28, No. 4, p. 73. Jolliffe 1966, GAC Spec. Paper 3, p. 85.	42. Stromatolites	Knob Lake Gp.: Purdy Fm. Denault Fm. Seward Fm.	Bergeron 1954, Ph.D. thesis, Laval Univ. Fahrig 1955, GSC Paper 55-1, p. 5. Roscoe 1957, GSC Paper 57-6, p. 7. Baragar 1958, GSC Paper 57-7, p. 3. Lapparent 1959, Soc. Géol. France, Bull. 7th ser., vol. 1, No. 3, p. 260. Wynne-Edwards 1960, GSC Map 2-1960, notes. Donaldson 1963, GSC, Bull. 102. Baragar 1963, GSC Paper 62-38, p. 2. Frarey and Duffel 1964, GSC Paper 64-25, p. 7. Pettijohn and Potter 1964, Atlas and glossary, p. 49A. Fahrig 1965, GSC Map 1146A, notes. Dimroth 1965, Que. Dept. Nat. Res., Prelim. Rept. 532, p. 10. Donaldson 1966, GSC Mem. 338, pp. 25-28, 82-83. Baragar 1967, GSC Mem. 344, pp. 19, 36-38, 58. Dimroth 1967, Que. Dept. Nat. Res., Prelim. Rept. 557, pp. 3-5, 10. Fahrig 1967, GSC Mem. 354, p. 6. Dimroth 1968, N. Jb. Geol. Pal., Abh. vol. 132, pp. 32-35.
3. Stromatolites	Hunting Fm. (Paleozoic)	Blackadar 1957, Roy. Soc. Can., Spec. Pub. 2, p. 99. Tuke <i>et al.</i> , 1966, Can. J. Earth Sci., vol. 3, pp. 704, 708. Blackadar 1967, GSC Bull. 151, p. 27.	29. <u>Cryptozoon walcottii</u>	Steeprock Gp.	? Walcott 1912, GSC Mem. 28, p. 22. Rothpletz 1916, Abh. Bayer. Akad. Wiss., vol. 28, No. 4, pp. 80-83.	43. Graphitic compressions	Knob Lake Gp.	Stinchcomb <i>et al.</i> , 1965, Science, vol. 148, pp. 75-76.
4. Organic burrows	Hunting Fm. (Paleozoic)	Tuke <i>et al.</i> , 1966, Can. J. Earth Sci., vol. 3, p. 704. Dinely 1966, Arctic, vol. 19, p. 272.	30. Stromatolites	Animikie Gp., Gunflint Fm.	Bell 1870, GSC Rept. 1866-1869, p. 324. Moore 1925, Trans. Roy. Soc. Can., vol. 19, sec. 4, pp. 21-28. Gill 1926, GSC Sum. Rept. 1924, pp. 45C-50C, 59C-65C. Tanton 1931, GSC Mem. 167, pp. 30, 34, 36, 46. Goodwin 1956, Econ. Geol., vol. 51, pp. 570-572, p. 576. Moorhouse 1960, Ont. Dept. Min. Ann. Rept. 69, pt. 7, pp. 1-40. Goodwin 1960, Ont. Dept. Min. Ann. Rept. 69, pt. 7, pp. 41-63. Moorhouse and Beales 1962, Trans. Roy. Soc. Can. sec. 4, No. 3, pp. 97-110. Hofmann 1969, GSC Paper 68-69, pp. 1-22.	44. Stromatolites	Seal Gp., Wuchusk Lake Fm.	Mann 1959, Ph.D. thesis, McGill Univ., pp. 152-160. Brummer and Mann 1961, GSA Bull., vol. 72, p. 1369.
5. Stromatolites	Shaler Gp.: Kilian Fm. Wynniatt Fm. Reynolds Point Fm. Glenelg Fm.	Cloud 1942, Am. J. Sci., vol. 240, p. 375. Thorsteinsson and Tozer 1962, GSC Mem. 330, pp. 28, 31, 33, 34.	31. Microfossils	Animikie Gp., Gunflint Fm.	Tyler and Barghoorn 1954, Science, vol. 119, pp. 606-608. Moorhouse and Beales 1962, Trans. Roy. Soc. Can., sec. 4, No. 3, pp. 97-110. Barghoorn and Tyler 1965, Science, vol. 147, pp. 563-577. Cloud 1965, Science, vol. 148, pp. 27-35. Schopf <i>et al.</i> , 1965, Science, vol. 149, pp. 1365-1367. Cloud and Hagen 1965, Proc. Nat. Acad. Sci., vol. 54, pp. 1-8.	45. Annelid trails	Random Fm. (Cambrian?)	Walcott 1900, GSA Bull., vol. 11, pp. 4-5.
6. Brachiopods and trace fossils	(Cambrian)	McNair 1965a, GSA Progr. Ann. Mtg., p. 105. McNair 1967, Dartmouth Polar Notes, No. 7, 1967, p. 52.	32. (Taonichnites) Clenichnites Medusichnites	Animikie Gp.	Matthew 1890, Am. J. Sci., vol. 139, p. 146. Matthew 1891, Trans. Roy. Soc. Can., sec. 4, vol. 8, p. 143. Walcott 1898, U.S.G.S., Monog. 30, p. 100.	46. Oldhamia	Conception Gp.	Murray 1868, Rept. Geol. Surv. Nfld. 1868, p. 13. Weston 1895, Trans. N.S. Inst. Sci., vol. 8, p. 139.
7. Stromatolites	Coppermine River Gp.; Unit P5	Fraser 1960, GSC Map 18-1960, descriptive notes. Fraser 1960, GSC Paper 60-8, p. 19. Yorath <i>et al.</i> , 1969, GSC Paper 68-27, p. 8.	33. Stromatolites	Sibley Gp.	? Bell 1870, GSC Rept. 1866-1869, p. 342. Wilson 1910, GSC Mem. 1, p. 68. Tanton 1931, GSC Mem. 167, p. 56. Roscoe 1967, GSC Paper 67-1A, p. 211. Hofmann 1969, GSC Paper 68-69, pp. 22-28.	47. Aspidella terranova	St. John's Fm.	Billings 1872, Can. Nat. Geol., vol. 6, p. 478. Walcott 1899, GSA Bull., vol. 10, pp. 230-231.
8. Stromatolites <u>Conophyton</u>	Hornby Bay Gp.	Fraser 1960, GSC Map 18-1960, descriptive notes. Fraser 1960, GSC Paper 60-8, p. 19. Donaldson 1969, GSC Paper 69-1A, p. 155.	34. Protozoans	Keewatin	Madison 1958, Ill. Acad. Sci., Trans., vol. 50, pp. 287-290.	48. Arenicolites spiralis	St. John's Fm.	Murray 1868, Rept. Geol. Surv. Nfld. 1868, p. 13. Billings 1872, Can. Nat. Geol., vol. 6, p. 478.
9. Stromatolites	Epworth Gp., Rocknest Fm.	O'Neill 1924, Rept. Can. Arctic Exped., pp. 21A, 46A. Lord 1951, GSC Mem. 261, p. 34. Fraser 1960, GSC Map 18-1960, descriptive notes. McNeely 1963, B.Sc. thesis, Queen's Univ., pp. 8, 64. Fraser and Tremblay 1969, Can. J. Earth Sci., vol. 6, p. 5.	35. Stromatolites	Proterozoic	Hawley 1925, Ont. Dept. Min. Ann. Rept. 34, pt. 7, pp. 5, 8, 13, 16. Bostock 1968, GSC Paper 67-70, p. 10, Fig. 2.	49. Metazoans	Conception Gp.	Anderson and Misra 1968, Nature, vol. 220, pp. 680-681.
10. Stromatolites <u>Conophyton</u>	Parry Bay Fm.	McNeely 1963, B.Sc. thesis, Queen's Univ., pp. 74-76. Fraser 1964, GSC Paper 63-40, p. 13.	36. Stromatolites	Belcher Gp.	Moore 1918, Jour. Geol., vol. 26, pp. 416-429. Young 1922, GSC Sum. Rept. 1921, p. 11E. Jackson 1960, GSC Paper 60-20, pp. 2, 5, 6, 7.	50. Stromatolites	Hodgewater Gp.	Hutchinson 1953, GSC Mem. 275, p. 12.
11. Stromatolites	Goulburn Gp., Kuuvik Fm. Western River Fm.	Fraser 1964, GSC Paper 63-40, p. 12. Fraser and Tremblay 1969, Can. J. Earth Sci., vol. 6, pp. 5-6.	37. Algal cell structures, Microspherulitic structures	Belcher Gp., Kipalu Iron-Fm.	Moore 1918, Jour. Geol., vol. 26, p. 427. LaBerge 1967, GSA Bull., vol. 78, p. 334.	51. Stromatolites	Conception Gp.	Donaldson 1963, GSC Bull. 102, p. 22.
12. Algae or colloidal bodies Stromatolites?	Echo Bay Gp.	Fenton and Fenton 1939, GSA Bull., vol. 50, pp. 91-92. Thurber 1946, GSC Spec. Rept., p. 2. Lord 1951, GSC Mem. 261, p. 33. Brown and Wright 1957, Roy. Soc. Can., Spec. Pub. 2, p. 85.	38. Carbonaceous marks	Manitoumuk Gp.	Low 1903, GSC Ann. Rept., vol. 13, pp. 16DD, 31DD.	52. Halichondrites graphitiferus	Green Head Gp.	Matthew 1890, Bull. Nat. Hist. Soc., N.B., vol. 2, No. 9, p. 49.
13. <u>Archaeozoon septentrionale</u>	Snare Gp.	Jolliffe 1936, GSC Paper 36-5, p. 2. Kidd 1936, GSC Mem. 187, p. 11. Fenton and Fenton 1939, GSA Bull., vol. 50, p. 91. Wilson and Lord 1942, GSC Map 697-A, legend. Lord 1942, GSC Mem. 235, pp. 22-23. Lord 1951, GSC Mem. 261, p. 33. Brown and Wright 1957, Roy. Soc. Can., Spec. Pub. 2, p. 86.	39. Stromatolites	Manitoumuk Gp.	Low 1903, GSC Ann. Rept., vol. 13, pp. 16DD, 19DD. Leith 1910, Econ. Geol., vol. 5, pp. 234, 240. Dresser and Denis 1944, Que. Dept. Min., Geol. Rept. 20, vol. 2, pp. 235-237, pl. 25A. Bergeron 1957, Roy. Soc. Can., Spec. Pub. 2, p. 109. Woodcock 1960, GAC Proc., vol. 12, p. 31. Eade 1966, GSC Mem. 339, pp. 55, 57.	53. Cryathospongia? eozoica	Green Head Gp.	Matthew 1890, Bull. Nat. Hist. Soc., N.B., vol. 2, No. 9, pp. 42-43.
14. Stromatolites	El-then Gp.: Murky Fm. Great Slave Supergp.: Stark Fm. Pethei Gp. Kahochella Gp. Sosan Gp.	Rutherford 1929, Am. J. Sci., vol. 17, 5th ser., p. 258. Lausen 1929, C. I. M. M. Bull., vol. 22, pp. 384-386. Stockwell 1933, GSC Sum. Rept. 1932, pt. C, pp. 55-56. Brown 1950, GSC Paper 50-28, p. 5. Lord 1951, GSC Mem. 261, p. 31. Wright 1951, GSC Paper 51-25, p. 6. Wright 1951, GSC Paper 51-26, p. 7. Hoffman 1967, GSC Paper 67-1, pt. A, p. 39. Hoffman 1967, Science, vol. 157, p. 1043. Hoffman 1968, GSC Paper 68-1A, pp. 140-142. Hoffman 1968, GSC Paper 68-42, p. 93. Stockwell <i>et al.</i> , 1968, GSC Map 1122A. Stockwell <i>et al.</i> , 1968, GSC Map 1123A.	40. Stromatolites	Mistassini Gp.: Albanel Fm. Cheno River Fm.	? Richardson 1872, GSC Rept. Prog. 1870-71, p. 295. Low 1886, GSC Ann. Rept., vol. 1, p. 32D. Faribault <i>et al.</i> , 1911, Que. Dept. Col. Min. Fish, pp. 132-133, pl. 45. Norman 1940, Jour. Geol., vol. 48, pp. 517-518. Dresser and Denis 1944, Que. Dept. Min., Geol. Rept. 20, vol. 2, p. 247. Neilson 1953, Que. Dept. Min., Geol. Rept. 53, pp. 19-20, 25. Wahl 1953, Que. Dept. Min., Geol. Rept. 54, pp. 23-24. Deland 1957, Que. Dept. Min., Prelim. Rept. 331, pp. 4-5. Wilson 1957, Roy. Soc. Can., Spec. Pub. 2, p. 21. Bergeron 1957, Roy. Soc. Can., Spec. Pub. 2, p. 127. Gilbert 1958, Que. Dept. Min., Geol. Rept. 79, p. 23. Riley 1958, GSC Map 1060A, notes. Sater 1959, Que. Dept. Mines, Prelim. Rept. 356, pp. 4-5. ? Moyer 1960, Que. Dept. Mines, Prelim. Rept. 427, p. 6. Neilson 1966, Que. Dept. Nat. Res., Geol. Rept. 124, p. 31. Deland and Sater 1967, Que. Dept. Nat. Res., Geol. Rept. 126, pp. 16, 19.	54. <u>Archaeozoon acadense</u>	Green Head Gp.	Matthew 1890, Bull. Nat. Hist. Soc., N.B., vol. 2, No. 9, pp. 38-41, 67. Matthew 1907, Bull. Nat. Hist. Soc., N.B., vol. 5, pt. 5, pp. 547-552. Hayes and Howell 1937, GSA Spec. Paper 5, pp. 23-25. Leavitt 1963, M.Sc. thesis, Univ. of New Brunswick, p. 25.
15. <u>Skolithos</u> -like tubes	Great Slave Supergp.: Sosan Gp. (Akaiteho River Fm.)	Hoffman 1968, GSC Paper 68-42, p. 13.	55. Eozoon canadense (Côte St. Pierre type) Archaeosphaerina	Grenville	Dawson 1864, Can. Nat. Geol., 2nd ser., vol. 1, p. 220. Dawson 1865, Q. J. G. S. Lond., vol. 21, p. 54. Dawson 1875, Dawn of Life, pp. 67, 137-139, 236.	56. Eozoon canadense (Grand Calumet type)	Grenville	Logan 1863, Rept. Progr. to 1863, pp. 48-49.
16. Stromatolites	Dubawnt Gp., Lookout Point Fm.	Donaldson 1967, GAC Proc. vol. 18, pp. 35, 37.	57. Eozoon canadense (Burgess type)	Grenville	Logan 1865, Q. J. G. S. Lond., vol. 21, p. 48.	58. Eozoon canadense (Tudor type)	Grenville	Dawson and Carpenter 1867, Q. J. G. S. Lond., vol. 23, pp. 257-260.
17. Stromatolites	Hurwitz Gp.	Eade 1964, GSC Paper 64-27, p. 4. Bell 1968, GSC Paper 68-1A, p. 117. Bell 1968, GSC Paper 68-36, pp. 4, 17.	59. Eozoon canadense (Huntington type)	Grenville	Miller and Knight 1914, Ont. Bur. Min., Rept., vol. 22, pt. 2, pp. 13, 22, 24. Wilson 1926, GSC Econ. Geol. Ser. 2, pp. 18, 80, 131.	60. Burrows, spicules	Grenville	Dawson 1866, Q. J. G. S. Lond., vol. 22, pp. 608-609.
18. Stromatolites	Martin Fm.	Donaldson 1963, GSC Bull. 102, p. 21. Tremblay 1968, GSC Mem. 367 (adv. ed.), pp. 213, 276.	61. Elliptical structures	Grenville, Mayo Gp.	Osborne 1931, Can. J. Res., vol. 4, pp. 570-573.	62. Stromatolites?	Gowganda Fm.	Young 1967, Can. J. Earth Sci., vol. 4, p. 566.
19. Stromatolites	Carswell Fm.	Blake 1956, GSC Paper 55-33, p. 5. Brown and Wright 1957, Roy. Soc. Can., Spec. Pub. 2, p. 80. Fahrig 1961, GSC Bull. 68, p. 18.	63. Algal-like forms	Whitewater Gp., Vermilion Fm.	Thomson 1960, Trans. Roy. Soc. Can., 3rd ser., sec. 4, pp. 67-71.	64. Kempia huronense	Mississagi Fm.	Bain 1927, Pan-Amer. Geol., vol. 47, p. 281.
20. Stromatolites	Unnamed formation	Wheeler 1954, GSC Paper 53-7, pp. 13-14. Hofmann 1959, M.Sc. thesis, McGill Univ., p. 65.	65. Collinsia mississagiense	Mississagi Fm.	Bain 1927, Pan-Amer. Geol., vol. 47, p. 282.	66. Rhysonetron lahtii	Cobalt Gp., Bar River Fm.	Hofmann 1967, Science, vol. 156, pp. 500-504. Young 1967, Can. J. Earth Sci., vol. 4, pp. 566-567.
21. Stromatolites	Proterozoic (unit 3)	Gabrielse <i>et al.</i> , 1965, GSC Paper 64-52, pp. 5-6. Gabrielse 1967, Can. J. Earth Sci., vol. 4, p. 271.	67. Actinomycetes	Gowganda Fm.	Jackson 1967, Science, vol. 155, pp. 1003-1005.	68. Rhysonetron byei	Cobalt Gp., Lorrain Fm.	Frarey and McLaren 1963, Nature, vol. 200, p. 461. Hofmann 1967, Science, vol. 156, pp. 500-504.
22. Stromatolites	Proterozoic, Tuchodi Fm. George Fm. Chischa Fm.	Bell 1966, Ph.D. thesis, Princeton Univ., pp. 14, 25, 29, Table 2. Bell 1968, GSC Paper 67-68, pp. 4, 5, 7.	69. Kempia	Gowganda Fm.	New.			
23. Stromatolites	Miette Gp., Byng Fm.	Mountjoy 1962, GSC Paper 61-31, p. 5. Mountjoy 1964, GSC Map 47-1963, notes. Slind and Perkins 1966, Bull. Can., Petrol. Geol. vol. 14, p. 446.						
24. Chuaria	Hector Fm.	Allan 1913, GSC Guide Book 8, p. 174, 192.						
25. Nannofossils	Hector Fm.	Licari and Cloud 1968, Geol. Soc. Amer., Progr. Ann. Migs., Mexico, p. 174.						
26. Beltina danai	Altyn Fm. Aldridge Fm.	Walcott 1911, Smithsonian Misc. Coll. vol. 57, No. 2, p. 21. Daly 1912, GSC Mem. 38, pp. 65, 183. Drysdale 1917, GSC Sum. Rept. 1916, pp. 58-59. Fenton and Fenton 1931, Jour. Geol. vol. 39, p. 686.						