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Yukon Geology Program

Grant Abbott and staff
Yukon Geology Program

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Abbott, J.G., 2002. Yukon Geology Program. *In: Yukon Exploration and Geology 2001*, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 31-47.

OVERVIEW

Now in its sixth year, the Yukon Geology Program (YGP; Fig. 1) is a de facto Yukon Geological Survey, consisting of two integrated and jointly managed offices with different administrative structures (Fig. 2). Federal funding is provided through the Exploration and Geological Services Division (EGSD), Yukon Region of the Department of Indian Affairs and Northern Development (DIAND), while Yukon Territorial Government (YTG) and cost-shared (YTG/DIAND) funding comes through the Mineral Resources Branch of the Department of Economic Development (YTG). YTG independently manages and funds the Mineral Assessment Group and the Yukon Mining Incentives Program (YMIP). These are described separately. The Geological Survey of Canada (GSC) also maintains an office with the program.



Figure 1. Yukon Geology Program staff, from left to right, Grant Abbott, Karen Pelletier, Diane Emond, Don Murphy, Bill LeBarge, Ken Galambos, Grant Lowey, Rod Hill, Mike Burke, Lee Pigage, Maurice Colpron, Lara Lewis, Leyla Weston, Panya Lipovsky, Jeffrey Bond, Anna Fonseca, Patrick Sack, Charlie Roots, Jo-Anne vanRanden, Julie Hunt, Monique Raitchey, Steve Traynor, Ali Wagner, Robert Deklerk, Craig Hart and Rick Zuran. Missing: Roger Hulstein, Gary Stronghill, Robert Stroshein.

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The Yukon Geology Program is an informal and temporary organization that will be transformed into a Yukon Geological Survey when the responsibilities of the Northern Affairs Program of DIAND are devolved to YTG. A Devolution Transfer Agreement is now signed and the transfer date firmly set for April 1, 2003.

During the past year, the Program saw several staff changes (Fig. 2). On the Northern Affairs side, Karen Pelletier joined the Division after the Mining Land Use Division was amalgamated with the Mineral Rights Divisions. Karen will continue her role as an

environmental geologist, and will take on additional duties including land use issues. Steve Traynor and Rick Zuran have joined the Division for a short period to assist with bringing the Yukon MINFILE database up to date. On the YTG side, Rod Hill has returned to his substantive position as manager of the Mineral Resources Branch, in place of Shirley Abercrombie; Tammy Allen has taken a short-term secondment to the Oil and Gas Division, replacing Riona Freeman; and Gord Nevin has taken a one-year leave of absence. Roger Hulstein and Robert Stroshein have joined the Mineral Assessment Group on term positions.

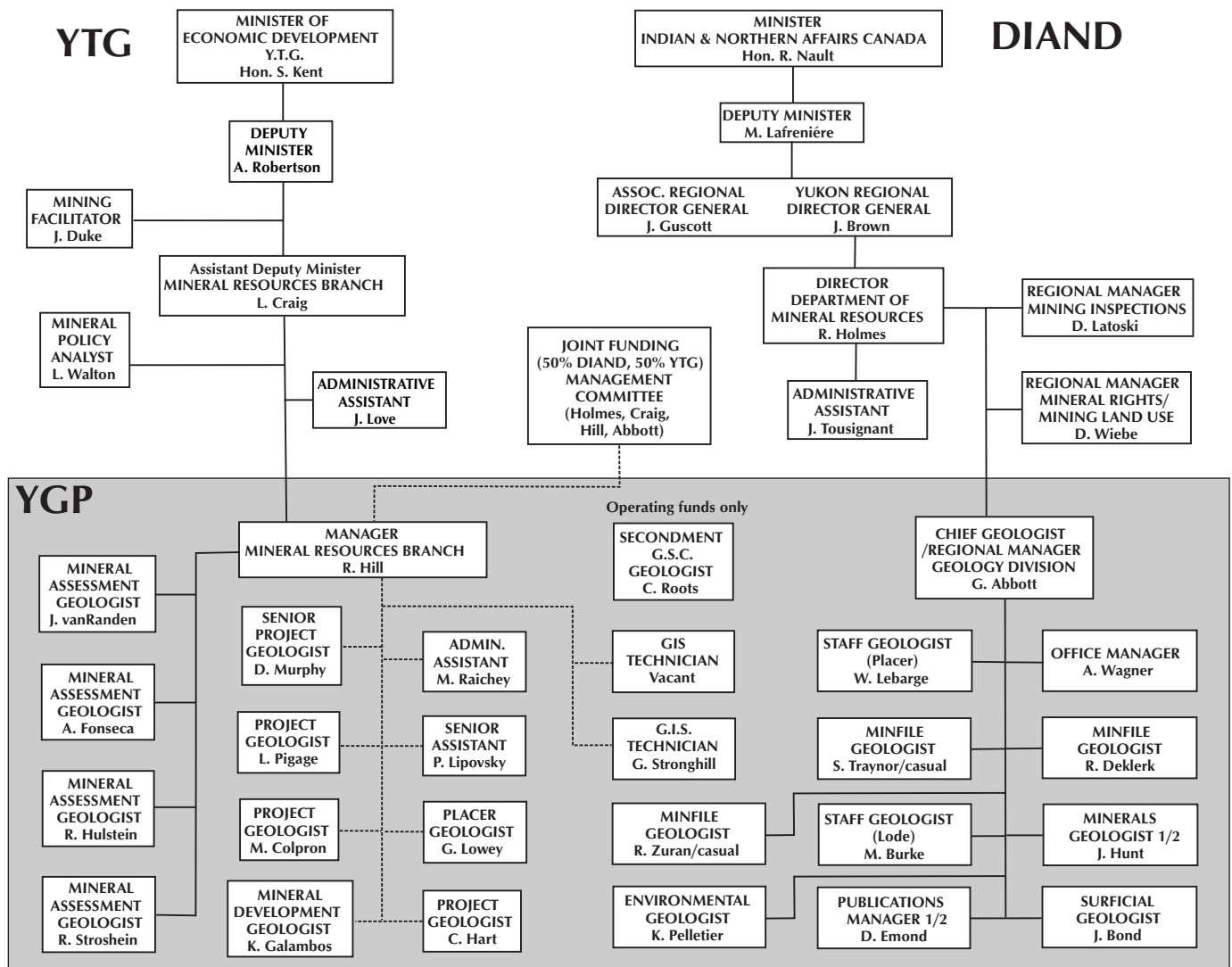


Figure 2. Yukon Mineral Resources organization chart.

PROGRAM HIGHLIGHTS FOR 2001

FIELDWORK

The Yukon Geology Program is committed to providing a balanced complement of field projects that not only quickly stimulate the mining and exploration industry, but also take the longer-term view towards developing an understanding of the Yukon regional geological framework, and building the Yukon Geoscience Database. Field projects carried out in 2001 are shown in Figure 3, and the present state and location of geological, geochemical and geophysical surveys are shown in Figure 4.

The Yukon Geology Program continued to commit substantial resources to a joint Geological Survey of Canada-British Columbia Geological Survey Branch – Yukon Geology Program initiative, the Ancient Pacific Margin NATMAP (National Mapping Program) project. This project is a multidisciplinary effort to better understand Yukon-Tanana and Kootenay terranes, arguably the least understood parts of the North American Cordillera. Yukon mapping projects are underway in Finlayson Lake map area (Don Murphy), Glenlyon (Maurice Colpron), Stewart River (Steve Gordey, Jim Ryan/GSC), and Wolf Lake (Charlie Roots/GSC). In southern B.C., the project also includes regional mapping by Bob Thompson of the GSC, and in east-central Alaska,

mapping by David Szumigala of the Alaska State Geological Survey, and mineral deposit studies by Cynthia Dusel-Bacon of the U.S. Geological Survey. Participation by numerous university researchers, graduate students and other specialists has greatly added to the depth and complexity of the project. In Yukon, these include litho-geochemical studies in the Finlayson Lake area by Steve Piercey (now at Laurentian University) and Jim Mortensen of the University of British Columbia, and mineral deposit studies by Suzanne Paradis of the GSC. Regular workshops and field trips are one of the main benefits of such a large and diverse project. This summer Charlie Roots led a field trip along the Alaska Highway, from Teslin to Rancheria.

In 2001, the Yukon portion of the project received a substantial boost from funds obtained through NRCan's Targeted Geoscience Initiative. In the Finlayson Lake map area (105G), the extra funding enabled a program of accelerated regional bedrock mapping and till geochemistry. By using a contract helicopter for five weeks, four

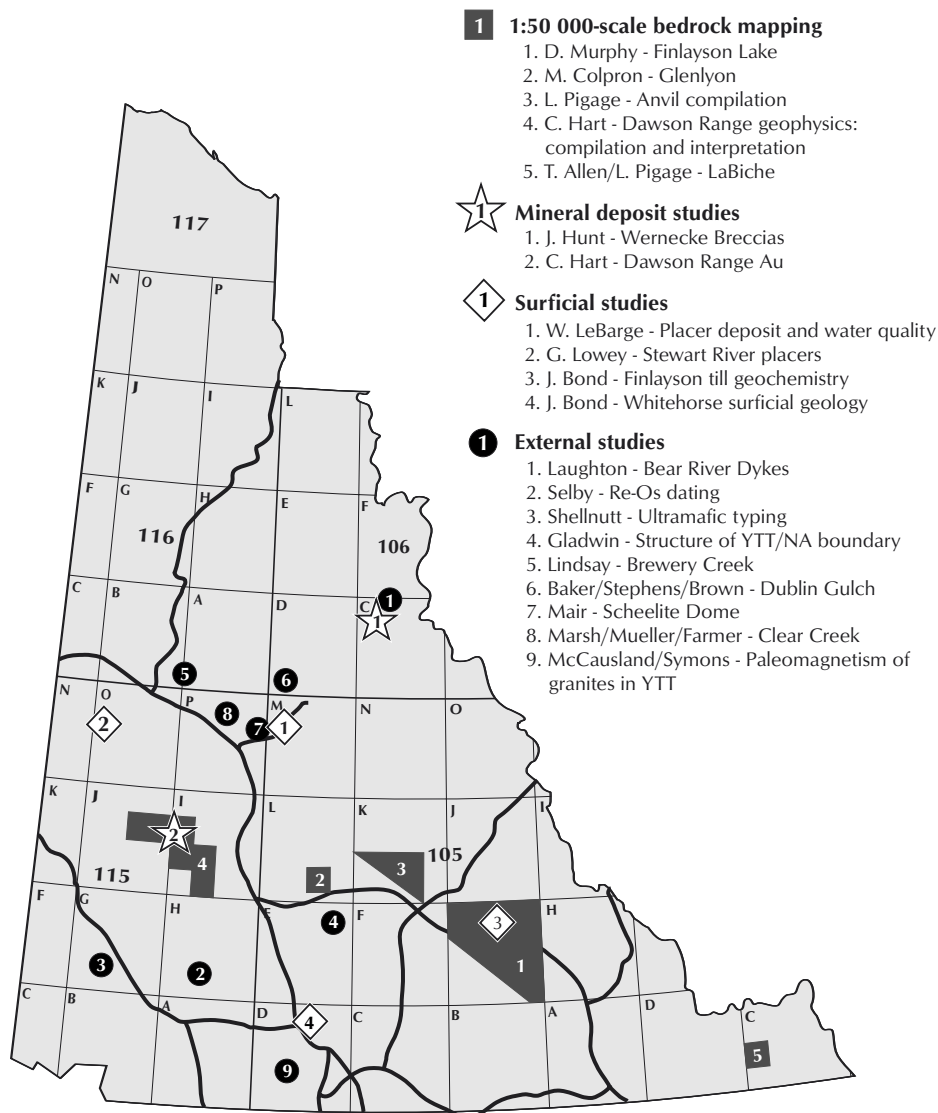


Figure 3. Field projects carried out or sponsored by the Yukon Geology Program in 2001.

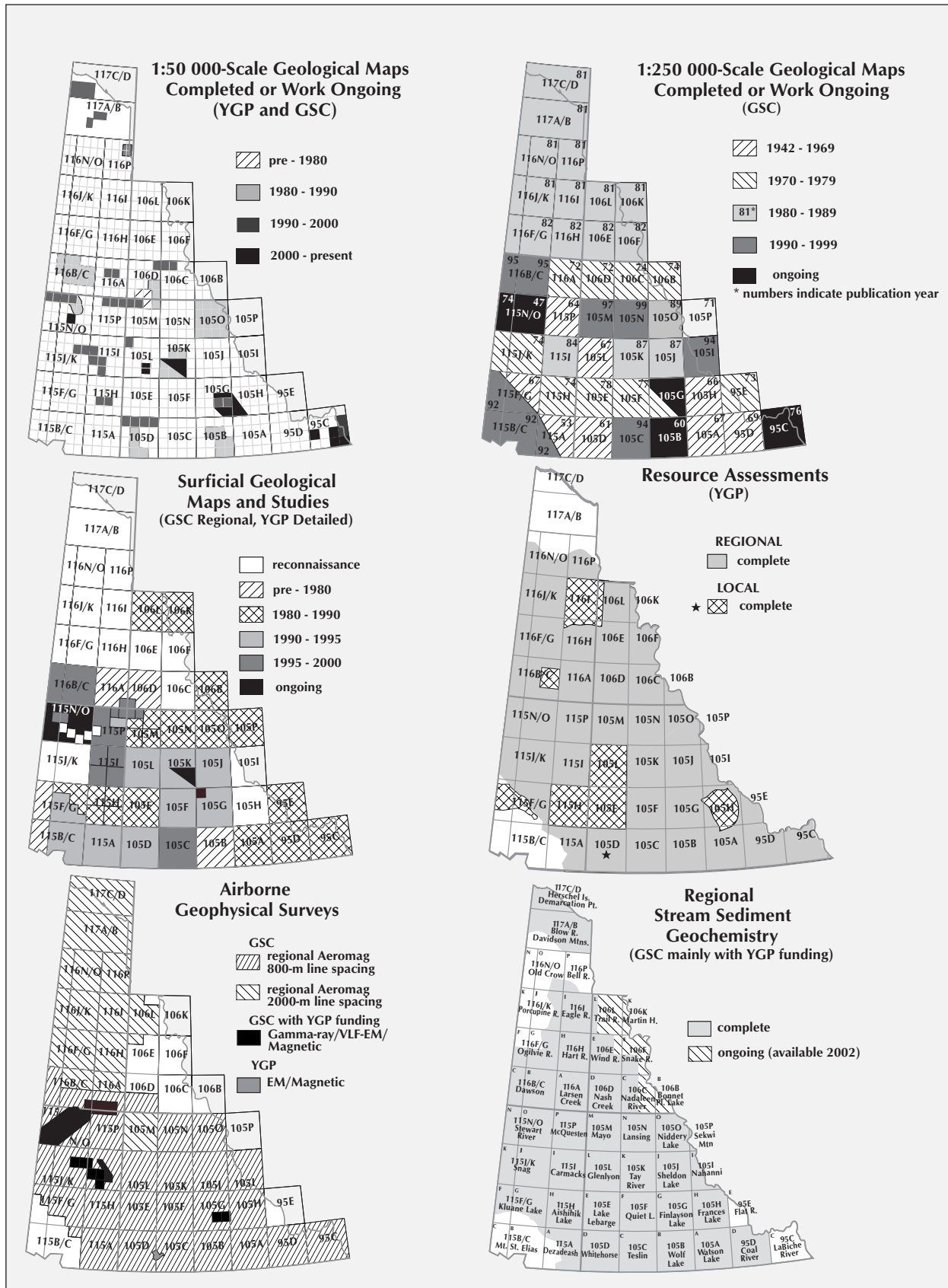


Figure 4. Summary of available of geological maps, and regional geochemical and geophysical surveys in the Yukon.

expert NATMAP participants (D. Murphy, S. Gordey, M. Colpron, and C. Roots) were able to map the northern half of the map sheet at 1:100 000 scale. As well, J. Bond, A. Plouffe and two assistants successfully carried out a regional till geochemical sampling program across the extensive overburden-covered parts of the area. Promising geological and geochemical targets were defined as a result.

Elsewhere, Maurice Colpron continued mapping in Glenlyon map area (105L). Charlie Roots continued mapping in the western half of Wolf Lake map area (105B) and in the adjoining northern half of Jennings River map area (104O). In the Stewart River area (105N, O), work included GSC bedrock mapping by Gordey and Ryan, surficial mapping by Lionel Jackson for the GSC, and placer deposit studies by Grant Lowey. The second and final year of airborne multispectral geophysical surveys, funded under the Targeted Geoscience Initiative, resulted in total coverage of about 2/3 of the map sheet. Data released from the first survey has already resulted in staking and prospecting of promising targets.

The success of previous multispectral geophysical surveys prompted the territorial government to fund the GSC to administer a survey over prospective ground near the Minto and Williams Creek copper deposits northwest of Carmacks.

The Yukon Geology Program is also a partner with GSC Calgary staff and university researchers in the Central Forelands NATMAP Project. The Central Forelands Project is primarily focused on hydrocarbon-related geoscience, and includes regional mapping and topical studies in two separate areas: Trutch (94G) and Toad River (94N) in northern British Columbia, and Fort Liard (95B) and La Biche (95C) in Yukon and Northwest Territories. Tammy Allen and Lee Pigage joined the project in La Biche map area in southeast Yukon. Now in the second of three years, the project will better define the geologic framework of the area with the highest hydrocarbon potential in all of Yukon. Mapping in the eastern part of the La Biche area has resulted in new structural interpretations that are key to hydrocarbon exploration. Work by Lee and Tammy in the western part of the map area has resulted in significant reinterpretation of both structure and stratigraphy.

Another major effort by the Yukon Geology Program is to synthesize and enhance the geological database of the Anvil district. The Faro mine remains closed for the foreseeable future, but the possibility remains for

renewed exploration and mining at some point. Lee Pigage has completed bedrock mapping, and has released a complete set of 11 geological maps of the district at 1:25 000 scale, and a compilation at 1:100 000 scale. A final report will be prepared in 2002. Jeff Bond has completed surficial mapping and a till geochemical survey, and released 11 final maps and a bulletin in the spring of 2001.

Craig Hart has begun a year's leave to undertake a PhD Program at the University of Western Australia. Most of the requirements for the degree will entail writing papers on his previous field studies of the Tintina gold belt and other Yukon gold occurrences. Craig also assisted many of the students who received support from the YGP to study various aspects of Yukon gold deposits. These included Mark Lindsay and Julian Stephens, under the supervision of Tim Baker at James Cook University (JCU) and John Mair at the University of Western Australia; and Erin Marsh and Seth Mueller under the supervision of Rich Goldfarb at the U.S. Geological Survey.

Bill LeBarge and Mark Nowasad continued their studies of the relationship between sedimentology, grain size distribution, and water quality of effluent from placer deposits. Fieldwork is now complete and the technique will be evaluated for possible long-term applications and further research. Data gathered from this study will be used in the review of the Yukon Placer Authorization, which is currently underway. The bulletin for the Mayo Placer project is scheduled for release in the spring of 2002.

Julie Hunt has returned to University to undertake a PhD program at James Cook University in Australia. YGP is funding fieldwork. Julie will carry out research on the Wernecke Breccias and take advantage of the Australian connection by comparing the Yukon breccias with similar Australian rocks which host giant copper, uranium, gold deposits.

EXTERNAL SUPPORT

The YGP is providing financial and logistical support to, or is a partner with, graduate students and university researchers in the following projects.

John Laughton is working on an MSc thesis on the Slab volcanics in the Wernecke Breccias under the supervision of Derek Thorkelson at Simon Fraser University. Derek also continued his research on Proterozoic rocks and mineral deposits in the Wernecke Mountains, with a small study of the Bear River dykes.

Gregory Shellnutt carried out detailed mapping and study of ultramafic rocks in the Yukon as part of a PhD program at the University of Victoria under the supervision of Dante Canil. The aim of the project is to use petrologic and geochemical studies to determine the mode of origin of ultramafic bodies in a variety of terranes and tectonic settings. The results should help identify those rocks with the most potential to host deposits of platinum group elements.

Kaesy Gladwin began mapping and structural studies to characterize the boundary between the Yukon-Tanana and Cassiar terranes in southeast Glenlyon map area. This is an MSc project under the direction of Stephen Johnston at the University of Victoria.

Tim Baker at James Cook University has completed work on understanding the fluid compositions of the Eagle Zone gold veins at Dublin Gulch. This is a step towards characterizing fluids in intrusion-related gold systems.

Julian Stephens, under the direction of Tim Baker at JCU, has been working on the nature of the brittle structural controls of intrusion-related gold systems in central Yukon with a focus on Dublin Gulch and Clear Creek. This will be used to develop a structural exploration model.

Mark Lindsay, under the direction of Tim Baker at JCU, has been developing a structural history and mineral paragenesis for the Brewery Creek gold deposit. He will direct future efforts towards determining what the critical factors were that resulted in gold deposition.

Similarly, Veronica Brown at JCU has completed her Honours BSc thesis on the Ray Gulch tungsten deposit at Dublin Gulch. She has determined that the lack of a retrograde alteration event on the tungsten skarn is the reason for the lack of gold enrichment in that deposit.

John Mair, under the direction of David Groves at the University of Western Australia, has been examining the metallogenic relationships between gold, tungsten and silver-lead-antimony mineralization in intrusion-related systems, with an emphasis on the Scheelite Dome area. In particular, John has found some very high gold grades in tungsten skarns, and this study will aid in the understanding of those metallogenic controls.

Erin Marsh has recently completed her MSc thesis at the University of Colorado on the "Geology and geochemistry of the Clear Creek intrusion-related gold occurrences." Erin has found, among other things, that $Au \pm Bi \pm W$ related veins are up to 100°C hotter than Ag-Pb veins.

Seth Mueller and Lang Farmer, also at the University of Colorado, have used isotopes to indicate the sources for magmas associated with intrusion-related gold deposits in the Clear Creek area.

David Selby and Rob Creaser at the University of Alberta have been applying a new technique for dating mineral deposits to Yukon rocks. The Rhenium-Osmium method allows the dating of sulphide minerals, in particular molybdenum, and they have been using it to understand the timing of intrusion-related sulphide deposition throughout the Yukon.

Phil McCausland and David Symons at the University of Windsor in Ontario are wrapping up paleomagnetic studies on Mesozoic and Early Tertiary granites in Yukon-Tanana Terrane. Progress so far indicates differences in the timing and amount of motion between Yukon-Tanana Terrane and Stikine Terrane rocks. Rocks as young as Eocene have endured up to 40° of post-emplacement, tectonic rotations.

In addition to providing geochronological support to the GSC's Steward River project, Mike Villeneuve has been using argon geochronology to: 1) determine the cooling and uplift history of the Klondike region to aid in determining mineralizing and tectonic processes in that region; 2) define the timing of recent volcanism in the Yukon, particularly the Fort Selkirk region; and 3) provide timing constraints on intrusion-related gold mineralization in the Tintina gold belt.

In order to make Regional Stream Geochemical data from the National Geochemical Reconnaissance Program more accessible, Peter Friske, with the Geological Survey of Canada in Ottawa, was funded to reformat existing open file data in Portable Document Format (PDF). The first four open files were released in December.

INDUSTRY LIAISON AND SUPPORT

Mike Burke and Bill LeBarge, YGP's main links to the exploration industry, continued to monitor Yukon hard-rock and placer mining, and mineral exploration activity. They continued to visit active properties, review reports for assessment credit, and maintain the assessment report library.

Yukon MINFILE

Robert Deklerk maintains the Yukon MINFILE, the Yukon's mineral occurrence database, which is another mainstay of the Yukon Geology Program. The upgrade from

Microsoft Access Version 2 to Access 97 has been completed, with major revision and simplification of the database structure. The updated digital version, with data revised to 1998, was released on CD-ROM in the spring of 2001. New mineral occurrence location maps produced in Arcview accompany the release. The text version of MINFILE is available on our website and in hard copy through Exploration and Geological Services Division.

Yukon GEOPROCESS File

The Yukon GEOPROCESS File, under the direction of Diane Emond, is an inventory of information on geological process and terrain hazards, including 1:250 000-scale maps showing permafrost, landslides, recent volcanic rocks, structural geology and seismic events, and also includes references and summaries of bedrock and surficial geology. The GEOPROCESS File is intended as a planning tool for development activities and is available for most areas south of 66° latitude. The maps have recently been standardized in colour, and will soon be released on a single compact disk.

H.S. Bostock Core Library

Mike Burke and Ken Galambos maintain the H.S. Bostock Core Library. The facility contains about 128 000 m of diamond drill core from about 200 Yukon mineral occurrences. Confidentiality of material is determined on the same basis as mineral assessment reports. Confidential core can be viewed with a letter of release from the owner. Rocks saws and other rock preparation equipment are available to the public.

Information Management and Publications

The Yukon Geology Program is now converted to digital publishing. All new geological maps and publications are produced on-demand from a digital format, and most of our recent products are available free of charge in PDF format from our website (<http://www.geology.gov.yk.ca>). The Yukon Geology Program is also pleased to make spatial data available through the interactive map server. The Map Gallery can be accessed through the YGP website and the YTG Department of Economic Development website. It currently allows viewing of regional geology, MINFILE locations, topography, roads and communities. The intent is to continually improve the site. Enhancements will include allowing downloading of vector data, and adding additional information, such as Regional Stream Geochemistry, geophysics,

geochronology and paleontology. The Map Gallery is the prototype for the Yukon Government's Data Access Window. Eventually, coverages, such as mineral claims from other agencies, will be available. Users are encouraged to provide feedback and suggest improvements.

Exploration and Geological Services Division, DIAND, publishes Yukon Geology Program publications. Hard copies are available at the address below.

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2001 PUBLICATIONS AND MAPS

BULLETINS

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YUKON GEOLOGY PROGRAM ABSTRACTS/ EXTENDED ABSTRACTS/LITHOPROBE CONTRIBUTIONS

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Le Service de géologie du Yukon

Maurice Colpron¹ et Grant Abbott²
Le Service de géologie du Yukon

Colpron, M. and Abbott, J.G., 2002. Le service de géologie du Yukon. *In: Yukon Exploration and Geology 2001*, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 49-51.

APERÇU

Le Service de géologie du Yukon (fig. 1), qui en est maintenant à sa sixième année d'existence, est dans les faits la commission géologique du Yukon et consiste en deux bureaux intégrés présentant des structures administratives différentes mais qui sont gérés conjointement (fig. 2). Le financement par le fédéral est fourni par l'entremise de la Division des Services d'exploration et de géologie du ministère des Affaires indiennes et du Nord canadien (MAIN), alors que le financement par le territoire et à coûts partagés (GTY/MAIN) est obtenu par l'entremise de la Direction des ressources minérales du ministère de l'Expansion économique (gouvernement du territoire du Yukon (GTY)). Le GTY gère et finance indépendamment le Groupe d'évaluation du potentiel minéral et le Programme d'encouragement pour l'exploitation minérale du Yukon ; ceux-ci sont décrit brièvement ci-dessous. La Commission géologique du Canada (CGC) maintient également un bureau auprès du Service.

Le Service de géologie du Yukon est une organisation informelle et temporaire qui sera transformée en commission géologique du Yukon lorsque les responsabilités du Programme des affaires du Nord seront dévolues au GTY. Une entente de principe concernant la dévolution a maintenant été signée et la date du transfert des responsabilités est fermement établie au premier avril 2003.

Le programme de géologie du Yukon compte de nombreuses fonctions dont les principales sont les suivantes : assurer la liaison entre l'industrie minérale et le gouvernement; tenir des bases de données géologiques telles que Yukon MINFILE (gîtes minéraux), Yukon GEOPROCESS FILE (processus géologiques et dangers du terrain) et Yukon Placer MINFILE (gisements placériens) ; tenir un point de vente de cartes et de publications et une carothèque (H.S. Bostock Core Library) ; et enfin, promouvoir et exécuter de nouvelles recherches géologiques, et en publier les résultats.

La plupart des travaux de recherche géologique continuent d'être exécutés de concert avec des initiatives d'autres agences gouvernementales. Le Service géologique du Yukon contribue toujours d'importantes ressources au projet CARTNAT (Programme national de cartographie géoscientifique du Canada) de l'ancienne marge du Pacifique, une initiative conjointe des commissions géologiques du Canada, de la Colombie-Britannique et du Service de géologie du Yukon. Ce projet est une étude multidisciplinaire visant à mieux comprendre les terranes de Yukon-Tanana et de Kootenay, soit les parties considérées comme les moins bien connues de la cordillère nord-américaine. Au Yukon, des travaux de cartographie géologique sont en cours dans les régions de Finlayson Lake, de Glenlyon, de Stewart River, et de Wolf Lake. Ce projet inclut aussi des travaux de cartographie géologique dans le sud de la Colombie-Britannique et dans le centre-est de l'Alaska, de même que des études de gîtes minéraux en Alaska. La participation de nombreux chercheurs universitaires, d'étudiants de deuxième et de troisième cycle, et d'autres spécialistes ont grandement contribué à la valeur scientifique du projet. En outre, on a complété une étude lithogéochimique dans la région

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de Finlayson Lake et l'on poursuit des études de gîtes minéraux à plusieurs endroits au sein du terrane de Yukon-Tanana.

En 2001, la partie yukonnaise du projet CARTNAT a reçu du financement additionnel par l'entremise de l'Initiative géoscientifique ciblée du ministère de ressources naturelles du Canada. Ces fonds additionnels ont permis de compléter un levé géochimique du till et la cartographie géologique de la partie septentrionale de la carte de Finlayson Lake. Des cibles géologiques et géochimiques d'intérêt furent identifiées lors de ce programme.

L'Initiative géoscientifique ciblée a aussi permis de compléter la deuxième et dernière partie d'un levé géophysique aéroporté multispectral de la région de Stewart River ; cela amène la couverture géophysique de la région à environ deux-tiers du feuillet cartographique. Les résultats du premier levé (publiés plus tôt en 2001) ont déjà engendré le jalonnement de concessions minières et la prospection de cibles prometteuses. Le succès des levés géophysiques aéroportés précédents a amené le GTY à financer (par l'entremise de la CGC) un levé multispectral des terrains prometteurs entourant les gisements de cuivre de Minto et Williams Creek, au nord-ouest de Carmacks.

Le Service de géologie du Yukon est aussi un partenaire, avec le bureau de Calgary de la CGC et des chercheurs universitaires, du projet CARTNAT de l'avant-pays central. Ce projet, qui recouvre en partie le nord de la Colombie-Britannique, le sud-ouest des territoires du Nord-Ouest, et le sud-est du Yukon, a pour principal objectif d'augmenter les connaissances géoscientifiques des régions présentant un potentiel d'hydrocarbures. Les travaux de cartographie géologique menés par le Service de géologie du Yukon dans la région de La Biche River en sont maintenant dans leur deuxième année ; ils ont permis de reviser les interprétations stratigraphiques et structurales de cette région.

Au nombre des autres objectifs majeurs visés par le Service de géologie du Yukon, mentionnons celui consistant à synthétiser et à améliorer la base de données géologiques du district d'Anvil, initiative qui comprend la cartographie géologique du socle rocheux et des dépôts superficiels, et des levés géochimiques de till, en plus de l'étude des gîtes minéraux. Un rapport couvrant la cartographie des dépôts superficiels et la géochimie du till, de même qu'une carte de compilation géologique

régionale à l'échelle de 1 : 100,000 sont maintenant disponibles.

Outre les travaux de cartographie géologique et les levés géophysiques, la région de Stewart River est aussi le sujet d'un programme de cartographie des dépôts superficiels par la CGC et d'une étude des placers par le Service de géologie du Yukon. Un autre projet est l'étude de la relation entre la sédimentologie, la répartition granulométrique et la qualité de l'eau des effluents provenant des dépôts placériens. Les travaux de terrain sont maintenant complétés et la technique sera évaluée pour d'éventuelles applications à long termes. De plus, les résultats de ce projet seront considérés lors de la révision (en cours) du processus d'autorisation des placers du Yukon.

L'étude des indices aurifères du Yukon se poursuit. Une série d'articles portant sur la ceinture aurifère de Tintina et d'autres indices du Yukon est maintenant en préparation. Une étude des brèches de Wernecke a aussi été entamée au cours de 2001.

EVALUATION DU POTENTIEL MINÉRAL

La direction des ressources minérales du Yukon fournit de l'information concernant la géologie et le potentiel minier de régions faisant l'objet d'une planification de l'utilisation des terres. Au printemps de 2001, le gouvernement du Yukon s'est engagé à identifier et à annoter sur des cartes des régions d'intérêt pouvant représenter treize écorégions. L'identification des régions d'intérêt fait intervenir les cartes régionales du potentiel minier produites conformément à la méthodologie élaborée par le Geological Survey des États-Unis et améliorée par la commission géologique de la Colombie-Britannique (voir article à ce sujet dans ce volume).

PROGRAMME D'ENCOURAGEMENT POUR L'EXPLOITATION MINÉRALE DU YUKON

Cette année, 77 demandes relatives au programme ont été reçues avant la date limite. Au total, 917 400 \$ ont été accordés à 59 demandeurs. Vingt demandes ont été approuvées dans le cadre du volet 'Grassroots' et du volet 'Grubstake,' tandis que les trente-neuf autres l'ont été dans le cadre du volet Évaluation de cibles. Un peu moins d'explorateurs commandités dans le cadre de ce programme ont recherché des métaux précieux : environ 61 % des candidats ont recherché de l'or, 11 % des éléments du groupe du platine et 28 % des métaux communs. Des programmes d'exploration ont été proposés dans les quatre districts miniers et presque partout sur le territoire du Yukon (voir article à ce sujet dans ce volume).

PRIX ROBERT E. LECKIE

Pour une troisième année consécutive, on a décerné à l'industrie minière les prix Robert E. Leckie pour la restauration de sites miniers. Le prix pour les pratiques exceptionnelles de restauration de mines a été décerné aux sociétés Viceroy Resource Corporation, Nova Gold Resources Inc. et Newmont Exploration of Canada Ltd., pour les travaux qu'elles ont effectués en collaboration sur la propriété McQuesten. On a remis le prix pour les pratiques exceptionnelles de restauration de placers à Doug Busat de la société T.D. Oilfield Services, pour les travaux de restauration qui ont été exécutés à l'embouchure du ruisseau Hunker, dans la région du Klondike. Un prix particulier de distinction honorifique pour la restauration à long terme de sites miniers a été remporté par Norm Ross de la société Ross Mining, pour ses pratiques de restaurations mises en œuvres au ruisseau Dominion (voir article à ce sujet dans ce volume).

DIFFUSION DE L'INFORMATION

Le Service de géologie du Yukon produit maintenant une gamme complète de publications numériques. Toutes nouvelles cartes et rapports géologiques sont disponibles sur demande en format numérique, et toutes publications récentes sont aussi disponibles (sous format PDF) sans frais sur notre site internet (<http://www.geology.gov.yk.ca>). De plus, nous sommes fier d'annoncer l'inauguration de notre service de carte interactive ('Map Gallery'). Ce service est disponible par l'entremise de notre site internet et permet la visualisation de la géologie régionale, des sites MINFILE, de la topographie, des routes et des communautés du Yukon. Ce service fera l'objet d'améliorations fréquentes.

Les publications du Service de géologie du Yukon sont diffusées par la Division des services géologiques et d'exploration (MAIN). Elles sont disponible à l'adresse suivante :

Bureau d'information et des ventes en géosciences
a/s Conservateur des registres miniers
Affaires indiennes et du Nord canadien
300 rue Main-bur.102
Whitehorse (Yukon) Y1A 2B5
Téléphone : (867) 667-3266
Courriel : geosales@inac.gc.ca

Pour en savoir plus long sur le Programme d'études géologiques du Yukon, visitez site internet à <http://www.geology.gov.yk.ca> ou communiquez directement avec :

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