Natural Resources Canada | Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA

U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Geological Survey of Canada Open File 3446
sheet 4 of 7

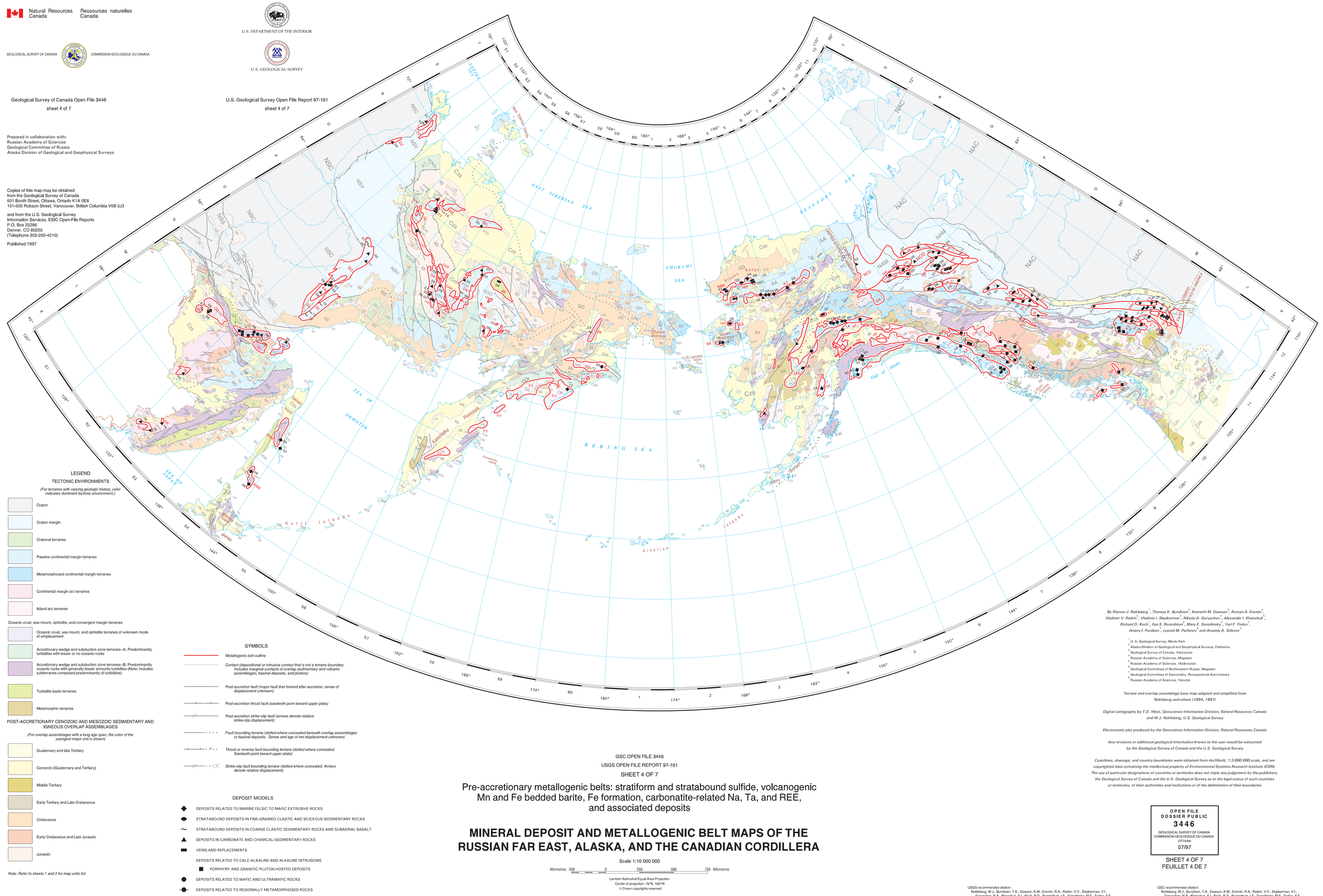
U.S. Geological Survey Open File Report 97-161
sheet 4 of 7

Prepared in collaboration with:
Russian Academy of Sciences
Geological Committee of Russia
Alaska Division of Geological and Geophysical Surveys

Copies of this map may be obtained
from the Geological Survey of Canada
601 Booth Street, Ottawa, Ontario K1A 0E8
101-605 Robson Street, Vancouver, British Columbia V6B 5J3

and from the U.S. Geological Survey
Information Services, ESIC Open-File Reports
P.O. Box 25286
Denver, CO 80225
(Telephone 303-202-4210)

Published 1997



LEGEND

TECTONIC ENVIRONMENTS

(For terranes with varying geologic history, color indicates dominant tectonic environment.)

- Craton
- Craton margin
- Cratonal terranes
- Passive continental margin terranes
- Metamorphosed continental margin terranes
- Continental margin arc terranes
- Island arc terranes

Oceanic crust, sea mount, and ophiolite terranes of unknown mode of emplacement

Accretionary wedge and subduction zone terranes–A. Predominantly turbidites with lesser or no oceanic rocks

Accretionary wedge and subduction zone terranes–B. Predominantly oceanic rocks with generally lesser amounts turbidites (Note: Includes subterranes composed predominantly of turbidites)

- Turbidite basin terranes
- Metamorphic terranes

POST-ACCRETIONARY CENOZOIC AND MESOZOIC SEDIMENTARY AND IGNEOUS OVERLAP ASSEMBLAGES

(For overlap assemblages with a lithic age span, the color of the youngest major unit is shown)

- Quaternary and late Tertiary
- Cenozoic (Quaternary and Tertiary)
- Middle Tertiary
- Early Tertiary and Late Cretaceous
- Cretaceous
- Early Cretaceous and Late Jurassic
- Jurassic

Note: Refer to sheets 1 and 2 for map units list

SYMBOLS

- *Metallogenic belt outline*
- *Contact (depositional or intrusive contact that is not a terrane boundary. Includes marginal contacts of overlap sedimentary and volcanic assemblages, basinal deposits, and plutons)*
- *Post-accretion fault (major fault that formed after accretion; sense of displacement unknown)*
- *Post-accretion thrust fault (sawteeth point toward upper plate)*
- *Post-accretion strike-slip fault (arrows denote relative strike-slip displacement)*
- *Fault-bounding terrane (dotted where concealed beneath overlap assemblages or basinal deposits. Sense and age of net displacement unknown)*
- *Thrust or reverse fault bounding terrane (dotted where concealed. Sawteeth point toward upper plate)*
- *Strike-slip fault bounding terrane (dotted where concealed. Arrows denote relative displacement)*

DEPOSIT MODELS

- DEPOSITS RELATED TO MARINE FELSIC TO MAFIC EXTRUSIVE ROCKS
- STRATABOUND DEPOSITS IN FINE-GRAINED CLASTIC AND SILICEOUS SEDIMENTARY ROCKS
- STRATABOUND DEPOSITS IN COARSE CLASTIC SEDIMENTARY ROCKS AND SUBAERIAL BASALT
- DEPOSITS IN CARBONATE AND CHEMICAL-SEDIMENTARY ROCKS
- VEINS AND REPLACEMENTS

DEPOSITS RELATED TO CALC-ALKALINE AND ALKALINE INTRUSIONS

- PORPHYRY AND GRANITIC PLUTON-HOSTED DEPOSITS
- DEPOSITS RELATED TO MAFIC AND ULTRAMAFIC ROCKS
- DEPOSITS RELATED TO REGIONALLY METAMORPHOSED ROCKS

Canada

By Vlonnn J. Nokkberg[1], Thomas K. Bundtzen[2], Kenneth M. Dawson[3], Roman A. Eremin[4], Vladimir V. Kotlo[5], Vladimir I. Shpikerman[6], Nikolai A. Goryachev[7], Alexander I. Khanchuk[8], Richard D. Koch[1], Ilya S. Rozenblum[9], Mary E. Gonzalez[1], Yuri F. Fridin[1], Arsany V. Poobeev[1], Leonid M. Parfenov[4] and Anatoly A. Sidorov[4]

[1] U. S. Geological Survey, Menlo Park
Alaska Division of Geological and Geophysical Surveys, Fairbanks
Geological Survey of Canada, Vancouver
Russian Academy of Sciences, Magadan
Russian Academy of Sciences, Vladivostok
Geological Committee of Northeastern Russia, Magadan
Geological Committee of Kamchatka, Petropavlovsk-Kamchatsky
Russian Academy of Sciences, Yakutsk

Terrane and overlap assemblage base map adapted and simplified from Nokkberg and others (1994, 1997)

Digital cartography by T.D. West, Geoscience Information Division, Natural Resources Canada and W.J. Nokkberg, U.S. Geological Survey

Electrostatic plot produced by the Geoscience Information Division, Natural Resources Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada and the U.S. Geological Survey

Coastlines, drainage, and country boundaries were obtained from ArcWorld, 1:3 000 000 scale, and are copyrighted data containing the intellectual property of Environmental Systems Research Institute (ESRI). The use of particular designations of countries or territories does not imply any judgement by the publishers, the Geological Survey of Canada and the U.S. Geological Survey as to the legal status of such countries or territories, of their authorities and institutions or of the delimitation of their boundaries

GSC OPEN FILE 3446
USGS OPEN FILE REPORT 97-161
SHEET 4 OF 7

Pre-accretionary metallogenic belts: stratiform and stratabound sulfide, volcanogenic Mn and Fe bedded barite, Fe formation, carbonatite-related Na, Ta, and REE, and associated deposits

MINERAL DEPOSIT AND METALLOGENIC BELT MAPS OF THE RUSSIAN FAR EAST, ALASKA, AND THE CANADIAN CORDILLERA

Scale 1:10 000 000

Kilometres 250 0 250 500 750 Kilometres

Lambert Azimuthal Equal Area Projection
Center of projection: 76°N, 163°W
© Crown copyrights reserved

OPEN FILE
DOSSIER PUBLIC
3446
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
07/97

SHEET 4 OF 7
FEUILLET 4 DE 7

USGS recommended citation:
Nokkberg, W.J., Bundtzen, T.K., Dawson, K.M., Eremin, R.A., Rubin, V.V., Shpikerman, V.I., Goryachev, N.A., Khanchuk, A.I., Koch, R.D., Rozenblum, I.S., Gonzalez, M.E., Fridin, Y.F., Poobeev, A.V., Parfenov, L.M., and Sidorov, A.A., 1997, Mineral deposit and metallogenic belt maps of the Russian Far East, Alaska, and the Canadian Cordillera: U.S. Geological Survey Open-File Report 97-161, 2 sheets, scale 1:10 000 000, 3 sheets, scale 1:10 000 000

GSC recommended citation:
Nokkberg, W.J., Bundtzen, T.K., Dawson, K.M., Eremin, R.A., Rubin, V.V., Shpikerman, V.I., Goryachev, N.A., Khanchuk, A.I., Koch, R.D., Rozenblum, I.S., Gonzalez, M.E., Fridin, Y.F., Poobeev, A.V., Parfenov, L.M., and Sidorov, A.A.
1997, Mineral deposit and metallogenic belt maps of the Russian Far East, Alaska, and the Canadian Cordillera: Geological Survey of Canada, Open File 3446, 2 sheets, scale 1:10 000 000, 3 sheets, scale 1:10 000 000

NUMBER	DEPOSIT NAME	DEPOSIT MODEL	MAJOR METALS
AAY	Alaska Range and Yukon-Tanana Upland Metallogenic Belt of Kuroko Massive Sulfide Deposits (Devonian and Mississippian), Central and East-Central Alaska		
P08			
01	Sheep Creek	Kuroko massive sulfide?	Zn, Pb, Ag, Sn
02	Anderson Mountain	Kuroko massive sulfide?	Cu, Pb, Zn, Ag
03	WTF, Red Mountain	Kuroko massive sulfide	Cu, Pb, Zn, Ag, Au
04	Quartz Lake, Bear Glacier	Kuroko massive sulfide	Cu, Pb, Zn, Ag, Au
05	McGinnis Glacier	Kuroko massive sulfide	Cu, Pb, Zn, Ag
20	Delta District	Kuroko massive sulfide	Pb, Zn, Cu, Ag, Au
Q06			
22	Liberty Bell	Kuroko massive sulfide(?) or polymetallic gold vein	Au, Ag, Cu, Bi
AN	Anvil Metallogenic Belt of Sedimentary Exhalative Zn-Pb-Ag Deposits (Cambrian to Silurian), Southern Yukon Territory		
P08			
08	Faro (Anvil)	Sedimentary exhalative Pb-Zn	Zn, Pb, Ag
09	Vangorda Creek (Grum, Firth, DY)	Sedimentary exhalative Pb-Zn	Zn, Pb, Ag
10	Swim (Sea, SB)	Sedimentary exhalative Pb-Zn	Zn, Pb, Ag
ANN	Arvine-Nabil Metallogenic Belt of Volcanogenic Mn and Fe and Cyprus Massive Sulfide Deposits (Early Cretaceous or older), Sakhalin Island, Southeastern Part of Russian Far East		
L54			
04	Berezovskovskoe	Volcanogenic Mn	Mn
05	Novikovskoe	Cyprus massive sulfide(?)	Cu, Zn, Pb
M64			
06	Lyukmanskoe	Volcanogenic Mn	Mn
M55			
02	Rys'k	Cyprus massive sulfide	Cu, Pb, Zn
AR	Alaska Range Metallogenic Belt of Besshi Massive Sulfide Deposits (Late Triassic), Central and Eastern-Southern Alaska		
P08			
14	Denali (Pass Creek)	Besshi massive sulfide?	Cu, Ag
AT	Arctic Metallogenic Belt of Kuroko and Kipushi Massive Sulfide Deposits (Devonian and Mississippian), Northern Alaska		
Q04			
03	Smucker	Kuroko massive sulfide	Cu, Zn, Pb, Ag
04	Arctic	Kuroko massive sulfide	Cu, Zn, Pb, Ag, Au
05	Ruby Creek, (Bornite)	Kipushi Cu-Pb-Zn	Cu, Co, Zn, Ag
Q05			
03	Michigan Creek	Kuroko massive sulfide	Au, Ag, Ag, Cu, Zn, Pb
04	ET, Jen Creek	Kuroko massive sulfide	Cu, Zn, Pb, Ag
06	Sun, (Picnic Creek)	Kuroko massive sulfide	Cu, Zn, Pb, Ag, Au
06	Rosecrall Creek	Kuroko massive sulfide	Cu, Zn, Pb, Ag, Au
AX	Alexander Metallogenic Belt of Volcanogenic Cu-Pb-Zn and Carbonate-Hosted Massive Sulfide Deposits (Triassic), Southeastern Alaska		
N08			
08	Khaysan	Kuroko massive sulfide	Cu, Au
09	Moneyback	Carbonate-hosted massive sulfide	Ag, Pb
11	Lime Point	Bedded barite	Ba
12	Niblack	Kuroko massive sulfide	Cu, Au, Ag
O08			
02	Windy Craggy (Alask River Area)	Cyprus massive sulfide	Cu, Co
15	Granite Creek	Kuroko Zn-Pb-Cu massive sulfide	Zn, Cu
16	Granite Creek	Kuroko Zn-Pb-Cu massive sulfide	Ag, Zn, Au, Pb
17	Castle Island, Kuprianof Island	Bedded barite, kuroko Sb-Zn-Pb-Cu massive sulfide	Ba
20	Glacier Creek	Kuroko massive sulfide	Ba, Cu, Zn
BE	Berezovka River Metallogenic Belt of Kuroko Massive Sulfide Deposits (Late Devonian), Central Part of Russian Northeast		
Q57			
04	Berezovska	Polymetallic vein and Kuroko massive sulfide	Pb, Zn, Cu, Ag
BI	Bilyakchan Metallogenic Belt of Sediment-Hosted Cu and Basaltic Cu Deposits (Late Proterozoic), Southwestern Part of Russian Northeast		
O53			
10	Bonnyi	Sediment-hosted Cu	Cu
12	Dzhusy Uy	Basaltic Cu	Cu
13	Gehegtaj	Basaltic Cu	Cu
BR	Britannia Metallogenic Belt of Volcanogenic Cu-Zn Massive Sulfide Deposits (Late Jurassic and Early Cretaceous), Southern British Columbia		
M10			
19	Britannia	Kuroko Cu-Zn massive sulfide	Cu, Zn
CA	Cathedral Metallogenic Belt of Southeast Missouri Zn-Pb-Ag Deposits (Middle Cambrian), Southern British Columbia		
M11			
11	Monarch (Kicking Horse)	Southeast Missouri Pb-Zn	Zn, Pb, Ag
CAR	Chersky-Argatass Ranges Inferred Metallogenic Belt of Kuroko Massive Sulfide Deposits (Late Jurassic), West-Central Part of Russian Northeast		
Q54			
04	Khotodokh	Kuroko Pb-Zn massive sulfide	Pb, Zn, Ag
CH	Churchill Metallogenic Belt of Cu Vein Deposits (Late Proterozoic), Northern British Columbia		
Q10			
01	Churchill (Davis Keyes)	Cu vein	Cu
CM	Coast Metallogenic Belt of Volcanogenic Cu-Zn-Au-Ag Massive Sulfide Deposits (Late Triassic and Early Jurassic), Northern British Columbia		
N09			
03	Alice Arm Silver (Dolly Varden, etc)	Kuroko Zn-Pb-Cu massive sulfide	Ag, Pb, Zn
05	Anyox Area (Hidden Creek, Bonanza)	Cyprus massive sulfide	Cu, Ag, Au
O08			
08	Tulsequah Chief (Big Bull)	Kuroko Zn-Cu-Pb massive sulfide	Zn, Cu, Au, Ag, Pb
O09			
18	Eskay Creek-21B Zone	Kuroko Zn-Pb-Cu massive sulfide	Au, Ag, Pb, Zn, Cu
25	Granduc (South Leduc)	Besshi massive sulfide	Cu
CR	Clark Range Metallogenic Belt of Sediment-Hosted Cu-Ag Deposits (Late Proterozoic), Southern British Columbia		
DA	Dawson Metallogenic Belt of Volcanogenic Pb-Zn-Cu Massive Sulfide and Sedimentary Exhalative Pb-Cu-Zn-Ba Deposits (Devonian and Mississippian), Northwestern Yukon Territory		
DE	Dempster Metallogenic Belt of Sedimentary Exhalative Ba, Sedimentary-exhalative Ni-Zn+PGE-Au, and Kuroko Zn-Pb-Cu Massive Sulfide Deposits (Devonian and Mississippian), Northwestern Yukon Territory		
P08			
02	Marg	Kuroko Zn-Pb-Cu massive sulfide	Zn, Pb, Cu, Ag, Au
Q08			
03	Nick	Sedimentary exhalative Ni-Zn	Ni, Zn, PGE
DZ	Dzhardzhan River Metallogenic Belt of Southeast Missouri Pb-Zn, Sediment-Hosted Cu and Sandstone-Hosted U deposits (Late Proterozoic through late Paleozoic), Northern Part of Eastern Siberia		
R52			
01	Mesagonder	Southeast Missouri Pb-Zn	Pb, Zn Mississippi Pb, Zn
03	Kurdyatin	Sediment-hosted U	U
04	Aga-Kukan	Southeast Missouri Pb-Zn and sediment-hosted Cu	Pb, Zn, Cu
ES	Eastern Seward Peninsula (Kiwalik Mountain) Metallogenic Belt of Kuroko Massive Sulfide Deposits (Devonian? and Mississippian?), Northwestern Alaska		
FI	Finlayson Lake Metallogenic Belt of Sedimentary Exhalative Zn-Pb-Ag-Cu-Au Deposits (Devonian and Mississippian), Southern Yukon Territory		
P09			
19	Matt Berry	Sedimentary exhalative Pb-Zn	Pb, Zn, Ag, Cu, Sb
FR	Frances Lake Metallogenic Belt of Volcanogenic Zn-Cu-Pb Massive Sulfide Deposits (Devonian and Mississippian), Southern Yukon Territory		
GA	Gataga Metallogenic Belt of Sedimentary Exhalative Zn-Pb-Ag-Ba Deposits (Devonian and Mississippian), Northern British Columbia		
O10			
02	Driftpile Creek (Gamt, Rvert)	Sedimentary exhalative Pb-Zn	Pb, Zn, Ba
03	Cirque (Stronsnay)	Sedimentary exhalative Pb-Zn,	Pb, Zn, Ag, Ba
08	Akie	Sedimentary exhalative Zn-Pb	Zn, Pb, Ag, Ba
GL	Gallam Metallogenic Belt of Volcanogenic Fe, Volcanogenic Mn, and Sedimentary P Deposits (Cambrian), Northern Part of Russian Southeast		
N53			
06	North-Shantarskoe	Sedimentary phosphorite	P
08	Nelbanskoe	Sedimentary phosphorite	P
09	Tyrkanda-Nimnyr-2	Sedimentary phosphorite	P
08	S-Nimnyskoe-1	Volcanogenic Mn	Mn
09	Milkanskoe	Volcanogenic Fe	Fe
10	Dzhalindinskoe	Sedimentary phosphorite	P
11	Gallamskoe	Volcanogenic Fe	Fe
12	Garbikanskoe	Volcanogenic Fe	Fe
13	Dzhalindinskoe	Volcanogenic Fe	Fe
14	Ilmenitovoe	Volcanogenic Fe	Fe
GM	Gillespie Metallogenic Belt of Sedimentary Exhalative Zn-Cu-Pb-Au-Ag Deposits (Early Proterozoic), Southern Yukon Territory		
Q08			
02	Hart River	Sedimentary exhalative Zn-Cu-Pb	Zn, Cu, Ag
01	Wernecke (Bransa)	Sedimentary exhalative Pb-Zn	Zn, Cu, Pb, Au, Ag
GR	Gar Metallogenic Belts of Volcanogenic Fe Deposits and Stratiform Cu and Pb-Zn Deposits (Late Proterozoic), Western Part of Russian Southeast		
N52			
05	Kamanushinskoe	Cu massive sulfide	Cu, FeS
09	Gar	Volcanogenic Fe	Fe
01	Chegayan	Sedimentary Pb-Zn	Pb, Zn, Ag
HP	Howards Pass Metallogenic Belt of Sedimentary Exhalative Zn-Pb Deposits (Silurian), Southern Yukon Territory		
P09			
01	Anniv (DP)	Sedimentary exhalative Pb-Zn	Zn, Pb
13	Howards Pass (XY)	Sedimentary exhalative Pb-Zn	Zn, Pb
IN	Ingenika Metallogenic Belt of Southeast Missouri Zn-Pb-Ag-Ba Deposits (Late Proterozoic to Devonian), Northern British Columbia		
O10			
07	Wasi Lake Area (Scuna, Beveley, Regent)	Southeast Missouri Pb-Zn	Pb, Zn, Ag, Ba
KB	Kabarga Metallogenic Belt of Ironstone (Superior Fe) Deposits (Early Cambrian), Southern Russian Southeast		
L52			
18	Useuri deposits	Ironstone	Fe
KI	Kilbuck Metallogenic Belt of Ironstone (Superior Fe) Deposits (Early Proterozoic), Southwestern Alaska		
O04			
16	Canyon Creek	Ironstone	Fe
KK	Ketchikan Metallogenic Belt of Kuroko Massive Sulfide Deposits (Late Paleozoic), Southeastern Alaska		
N09			
36	Moth Bay	Kuroko massive sulfide	Cu, Zn
KO	Kootenay Metallogenic Belt of Sedimentary Exhalative Zn-Pb Deposits (Cambrian), Southern British Columbia		
M11			
10	Mastadon (J&L)	Sedimentary exhalative Pb-Zn (?)	Zn, Pb, Au, Ag
11	Dunbar Lake Area	Sedimentary exhalative Zn-Pb	Zn, Pb, Ag
12	Jersey	Sedimentary exhalative Zn-Pb	Zn, Pb, Ag
39	Jersey	Sedimentary exhalative Pb-Zn	Zn, Pb, Ag
40	Reeves-MacDonald (Reemac)	Southeast Missouri Pb-Zn	Zn, Pb, Ag
KR	Khamna River Metallogenic Belt of Carbonatite-Related Nb, Ta, and REE Deposits (Devonian), Southern Part of Eastern Siberia		
O53			
05	Gornoe Ozero Khamna	Carbonatite-related REE Carbonatite-related REE	REE, Ta, Nb REE, Nb
KS	Kootenay-Shuswap Metallogenic Belt of Volcanogenic Zn-Pb-Cu-Ag-Au Massive Sulfide Deposits (Devonian and Mississippian), Southern British Columbia		
M10			
02	Chu Chua	Cyprus massive sulfide	Cu, Zn, Au, Ag
KS	Kootenay-Shuswap Metallogenic Belt of Volcanogenic Zn-Pb-Cu-Ag-Au Massive Sulfide Deposits (Devonian and Mississippian), Southern British Columbia		
M10			
03	Lemon Creek	Cyprus massive sulfide	Cu, Zn, Au, Ag
04	Ducktown	Cyprus massive sulfide	Cu, Zn, Au, Ag
05	Tyee	Cyprus massive sulfide	Cu, Zn, Au, Ag
06	Ajax	Cyprus massive sulfide	Cu, Zn, Au, Ag
07	Jumbo	Cyprus massive sulfide	Cu, Zn, Au, Ag
08	Spillimacheen	Cyprus massive sulfide	Cu, Zn, Au, Ag
09	Horsethief Creek	Cyprus massive sulfide	Cu, Zn, Au, Ag
10	Copper Mountain	Cyprus massive sulfide	Cu, Zn, Au, Ag
11	Similkameen	Cyprus massive sulfide	Cu, Zn, Au, Ag
12	Brenda	Cyprus massive sulfide	Cu, Zn, Au, Ag
13	Boundary	Cyprus massive sulfide	Cu, Zn, Au, Ag
14	Phoenix	Cyprus massive sulfide	Cu, Zn, Au, Ag
15	Greenwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
16	Deadwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
17	Motherlode	Cyprus massive sulfide	Cu, Zn, Au, Ag
18	Rock Candy	Cyprus massive sulfide	Cu, Zn, Au, Ag
19	Sappho	Cyprus massive sulfide	Cu, Zn, Au, Ag
20	Oregon	Cyprus massive sulfide	Cu, Zn, Au, Ag
21	Lexington	Cyprus massive sulfide	Cu, Zn, Au, Ag
22	Volcanic Ridge	Cyprus massive sulfide	Cu, Zn, Au, Ag
23	Ivanhoe	Cyprus massive sulfide	Cu, Zn, Au, Ag
24	Lone Star	Cyprus massive sulfide	Cu, Zn, Au, Ag
25	Standard	Cyprus massive sulfide	Cu, Zn, Au, Ag
26	Providence	Cyprus massive sulfide	Cu, Zn, Au, Ag
27	Granby	Cyprus massive sulfide	Cu, Zn, Au, Ag
28	Sunset	Cyprus massive sulfide	Cu, Zn, Au, Ag
29	Emma	Cyprus massive sulfide	Cu, Zn, Au, Ag
30	Rawhide	Cyprus massive sulfide	Cu, Zn, Au, Ag
31	Ingerbelle	Cyprus massive sulfide	Cu, Zn, Au, Ag
32	Old Ironsides	Cyprus massive sulfide	Cu, Zn, Au, Ag
33	Nickel Plate	Cyprus massive sulfide	Cu, Zn, Au, Ag
34	Hedley	Cyprus massive sulfide	Cu, Zn, Au, Ag
35	Copper Mountain	Cyprus massive sulfide	Cu, Zn, Au, Ag
36	Ingerbelle	Cyprus massive sulfide	Cu, Zn, Au, Ag
37	Similkameen	Cyprus massive sulfide	Cu, Zn, Au, Ag
38	Brenda	Cyprus massive sulfide	Cu, Zn, Au, Ag
39	Boundary	Cyprus massive sulfide	Cu, Zn, Au, Ag
40	Phoenix	Cyprus massive sulfide	Cu, Zn, Au, Ag
41	Greenwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
42	Deadwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
43	Motherlode	Cyprus massive sulfide	Cu, Zn, Au, Ag
44	Rock Candy	Cyprus massive sulfide	Cu, Zn, Au, Ag
45	Sappho	Cyprus massive sulfide	Cu, Zn, Au, Ag
46	Oregon	Cyprus massive sulfide	Cu, Zn, Au, Ag
47	Lexington	Cyprus massive sulfide	Cu, Zn, Au, Ag
48	Volcanic Ridge	Cyprus massive sulfide	Cu, Zn, Au, Ag
49	Ivanhoe	Cyprus massive sulfide	Cu, Zn, Au, Ag
50	Lone Star	Cyprus massive sulfide	Cu, Zn, Au, Ag
51	Standard	Cyprus massive sulfide	Cu, Zn, Au, Ag
52	Providence	Cyprus massive sulfide	Cu, Zn, Au, Ag
53	Granby	Cyprus massive sulfide	Cu, Zn, Au, Ag
54	Sunset	Cyprus massive sulfide	Cu, Zn, Au, Ag
55	Emma	Cyprus massive sulfide	Cu, Zn, Au, Ag
56	Rawhide	Cyprus massive sulfide	Cu, Zn, Au, Ag
57	Ingerbelle	Cyprus massive sulfide	Cu, Zn, Au, Ag
58	Old Ironsides	Cyprus massive sulfide	Cu, Zn, Au, Ag
59	Nickel Plate	Cyprus massive sulfide	Cu, Zn, Au, Ag
60	Hedley	Cyprus massive sulfide	Cu, Zn, Au, Ag
61	Copper Mountain	Cyprus massive sulfide	Cu, Zn, Au, Ag
62	Similkameen	Cyprus massive sulfide	Cu, Zn, Au, Ag
63	Brenda	Cyprus massive sulfide	Cu, Zn, Au, Ag
64	Boundary	Cyprus massive sulfide	Cu, Zn, Au, Ag
65	Phoenix	Cyprus massive sulfide	Cu, Zn, Au, Ag
66	Greenwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
67	Deadwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
68	Motherlode	Cyprus massive sulfide	Cu, Zn, Au, Ag
69	Rock Candy	Cyprus massive sulfide	Cu, Zn, Au, Ag
70	Sappho	Cyprus massive sulfide	Cu, Zn, Au, Ag
71	Oregon	Cyprus massive sulfide	Cu, Zn, Au, Ag
72	Lexington	Cyprus massive sulfide	Cu, Zn, Au, Ag
73	Volcanic Ridge	Cyprus massive sulfide	Cu, Zn, Au, Ag
74	Ivanhoe	Cyprus massive sulfide	Cu, Zn, Au, Ag
75	Lone Star	Cyprus massive sulfide	Cu, Zn, Au, Ag
76	Standard	Cyprus massive sulfide	Cu, Zn, Au, Ag
77	Providence	Cyprus massive sulfide	Cu, Zn, Au, Ag
78	Granby	Cyprus massive sulfide	Cu, Zn, Au, Ag
79	Sunset	Cyprus massive sulfide	Cu, Zn, Au, Ag
80	Emma	Cyprus massive sulfide	Cu, Zn, Au, Ag
81	Rawhide	Cyprus massive sulfide	Cu, Zn, Au, Ag
82	Ingerbelle	Cyprus massive sulfide	Cu, Zn, Au, Ag
83	Old Ironsides	Cyprus massive sulfide	Cu, Zn, Au, Ag
84	Nickel Plate	Cyprus massive sulfide	Cu, Zn, Au, Ag
85	Hedley	Cyprus massive sulfide	Cu, Zn, Au, Ag
86	Copper Mountain	Cyprus massive sulfide	Cu, Zn, Au, Ag
87	Similkameen	Cyprus massive sulfide	Cu, Zn, Au, Ag
88	Brenda	Cyprus massive sulfide	Cu, Zn, Au, Ag
89	Boundary	Cyprus massive sulfide	Cu, Zn, Au, Ag
90	Phoenix	Cyprus massive sulfide	Cu, Zn, Au, Ag
91	Greenwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
92	Deadwood	Cyprus massive sulfide	Cu, Zn, Au, Ag
93	Motherlode	Cyprus massive sulfide	Cu, Zn, Au, Ag
94	Rock Candy	Cyprus massive sulfide	Cu, Zn, Au, Ag
95	Sappho	Cyprus massive sulfide	Cu, Zn, Au, Ag
96	Oregon	Cyprus massive sulfide	Cu, Zn, Au, Ag
97	Lexington	Cyprus massive sulfide	Cu, Zn, Au, Ag
98	Volcanic Ridge	Cyprus massive sulfide	Cu, Zn, Au, Ag
99	Ivanhoe	Cyprus massive sulfide	Cu, Zn, Au, Ag
100	Lone Star	Cyprus massive sulfide	Cu, Zn, Au, Ag
KS	Kootenay-Shuswap Metallogenic Belt of Volcanogenic Zn-Pb-Cu-Ag-Au Massive Sulfide Deposits (Devonian and Mississippian), Southern British Columbia		
M10			
M11			
02	Rexspar (Birch Island)	Felsic plutonic U-REE	U, F, Sr, REE, Th
03	Cottonwood (Pat)	Basalt massive sulfide	Cu, Zn, Ag
04	Cottonwood (Pat)	Basalt massive sulfide	Cu, Zn, Ag
06	Rea Gold (Hilton)	Kuroko Zn-Pb-Cu massive sulfide	Ag, Pb, Zn, Au, Cu
07	Homestake (Squaam Bay)	Kuroko Zn-Pb-Cu massive sulfide	Ag, Pb, Zn, Au, Cu, Ba
LI	Lizard Metallogenic Belt of Southeast Missouri(?) Ba-F Deposits (Devonian), Northern British Columbia		
O09			
02	Legaut Creek (Letain)	Bedded barite	Ba
03	Lower Liard (Gem, Tee, Tami	Southeast Missouri Ba-F	F, Ba
MA	Mainitsky Metallogenic Belt of Massive Sulfide Deposits (Late Jurassic and Early Cretaceous), Eastern Part of Russian Northeast		
P60			
09	Ugruvmoe	Kuroko Cu-Zn-Ag massive sulfide(?)	Cu, Zn, Pb, Au
MO	Monashee Metallogenic Belt of Sedimentary Exhalative Zn-Pb-Ag Deposits (Late Proterozoic), Southern British Columbia		
M11			
01	Ruddock Creek	Sedimentary exhalative Zn-Pb	Zn, Pb, Ag
03	Cottonbelt	Sedimentary exhalative Pb-Zn	Pb, Zn, Ag
08	Mount Copeland	Porphyry Mo	Mo
09	Big Ledge (Frigidon Fissure)	Sedimentary exhalative Zn-Pb	Zn, Pb, Ag
10	Big Ledge (Frigidon Creek)	Sedimentary exhalative Zn-Pb	Zn, Pb
MP	Macmillan Pass Metallogenic Belt of Sedimentary Exhalative Zn-Pb-Ag-Ba Deposits (Devonian and Early Mississippian), Central Yukon Territory		
P09			
01	Jeff (Nason, Berndt)	Sedimentary exhalative Ba	Ba
02	Tom, (Jason)	Sedimentary exhalative Ba	Ba, Pb, Zn
04	Cathy (Allar, Watt, Hasal)	Sedimentary exhalative Ba	Ba, (Pb, Zn, Ag)
06	MacMillan Pass (Tom, Jason)	Sedimentary exhalative Pb-Zn	Pb, Zn, As, Ba
07	Mel (Gravel)	Sedimentary exhalative Ba	Ba
08	Mineo (Dyeran, Racoon)	Sedimentary exhalative Ba	Ba
09	Oro (Ruc, Mar, Dar, Tang)	Sedimentary exhalative Ba	Ba
MS	Mount Sicker Metallogenic Belt of Volcanogenic Massive Sulfide Zn-