

LEGEND

- QUATERNARY**  
**PLEISTOCENE AND RECENT**
- Qsi Snowfields and glaciers (boundaries replotted from vertical air photographs)
  - Qls Landslide
  - Qd Till, alluvium, colluvium
- DEVONIAN**  
**UPPER DEVONIAN**
- Dax ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone, light grey dolomite, and breccia
- FAIRHOLME GROUP**  
 Note: Dmh represents strata deposited basinward from Dsx and Dcn which represent reef-fringed banks
- Dmh MOUNT HAWK FORMATION: mudstone, grey to brown with calcareous mudstone nodules; limestone, argillaceous, thin-bedded, with brachiopods and corals
  - Dcn CAIRN FORMATION: massive to thickly bedded, dark brownish grey, medium crystalline dolomite with Amphipora and stromatopora beds; dark grey limestone, dolomitic limestone and dolomite in the lower part
- ORDOVICIAN AND SILURIAN**
- OsB BEAVERFOOT FORMATION: dolomite, finely crystalline, brownish-grey; partly cherty; partly silty; limestone, dark grey, partly dense, partly fragmental; minor shaly limestone
- ORDOVICIAN**
- Omw MOUNT WILSON FORMATION: quartz sandstone, quartzite, mainly fine- to medium-grained, very light grey to yellowish-grey
  - Ooc OWEN CREEK FORMATION: dolomite, mainly very finely crystalline, dark grey and olive-grey, siliceous, partly silty and sandy, partly laminated, cherty; minor brown mudstone
  - Osk SKOKI FORMATION: dolomite, mainly grey, finely and very finely crystalline, partly siliceous, partly fossiliferous; minor chert masses
- CAMBRIAN AND ORDOVICIAN**
- EsP SURVEY PEAK FORMATION: shale, grey, calcareous, interbedded with limestone, partly dense, partly fragmental, partly stromatolitic; minor chert; basal shales, calcareous, grey to olive, weathering pale greenish grey, with minor limestone, mainly flat-pebble conglomerate, and siltstone
- CAMBRIAN**  
**UPPER CAMBRIAN**
- Emi MISTAYA FORMATION: limestone, partly dense, partly fragmental, with prominent algal stromatolites; dolomitized equivalents; minor chert
  - Ebc BISON CREEK FORMATION: shale, greenish-grey; interbedded with limestone, mainly fragmental, partly altered to dolomite
  - ElL LYLELL FORMATION: limestone, mainly dense, with dolomite partings and mottling, partly laminated, partly silty and sandy; minor fragmental limestone; dolomitized equivalents; minor chert
- Upper part: shale, calcareous, brownish-grey and greenish-grey; interbedded with limestone, mainly fragmental, partly oolitic
- Middle part: limestone, mainly dense, with dolomite partings and mottling, partly massive oolite, partly laminated, partly shaly and silty; minor fragmental limestone
- Lower part: shale, calcareous, brownish-grey and greenish-grey; interbedded with limestone, mainly fragmental, partly oolitic; minor siltstone at the base
- ESU SULLIVAN FORMATION: shale, calcareous, brownish-grey and greenish-grey; interbedded with limestone, mainly fragmental, partly oolitic; minor siltstone at the base**
- MIDDLE AND UPPER CAMBRIAN**
- Ewf WATERFOWL FORMATION: limestone, mainly dense, with dolomite partings and mottling, partly silty and sandy; dolomitized equivalents; minor siltstone and sandstone
- MIDDLE CAMBRIAN**
- Car ARCTOMYS FORMATION: shale, purple-red, green, and grey, interbedded with siltstone, grey, yellow, dolomitic; minor orange-weathering dolomite
  - Epk PIKA FORMATION: limestone, mainly dense, flaggy, with partings of dense dolomite; minor flat-pebble conglomerate and oolite; dolomitized equivalents; minor shale near the base
  - ElD ELDON FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomite, finely to coarsely crystalline, largely mottled, largely or entirely secondary
  - Est STEPHEN FORMATION: shale, grey to green, interbedded with limestone, partly dense, flaggy with dolomite partings, partly fragmental; minor oolite
  - Eca CATHEDRAL FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomitized equivalents, mainly mottled
  - Emw MOUNT WHYTE FORMATION: shale, greenish-grey; interbedded with siltstone, green to grey, and limestone, mainly fragmental, partly oolitic
- LOWER CAMBRIAN**
- Egg GOG GROUP: mainly quartzite and quartzose sandstone, white, grey and red, thick-bedded; minor thinly interbedded sandstone, siltstone and grey shale
- UPPER PROTEROZOIC (HADRYNIAN)**  
**WINDERMERE SUPERGROUP**
- Emi MIETTE GROUP: grey slate and siltstone; poorly sorted grey and greenish-grey feldspathic quartz sandstone and pebble and granule conglomerate; green and purple slate; dense limestone and sandy limestone conglomerate

- Geological boundary (defined, approximate, assumed) .....
- Geological boundary (assumed projection under cover of younger deposits) .....
- Bedding, tops known (inclined, overturned) .....
- Bedding, tops unknown (vertical) .....
- Cleavage (inclined) .....
- Other fault (approximate) .....
- Thrust fault (teeth on upthrust side; defined, approximate, assumed) .....
- Thrust fault (assumed projection under younger deposits) .....
- Gravity fault (solid circle indicates downthrow side; defined, approximate, assumed) .....
- Gravity fault (assumed projection under cover of younger deposits) .....
- Anticline (trace of axial surface; defined) .....
- Syncline (trace of axial surface; defined) .....
- Anticline and syncline (assumed projection under cover of younger deposits) .....
- Anticline (overturned) .....
- Fossil locality .....
- Line of section .....

Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs (1964-1975); ground and air observations by J.D. Aitken, H.U. Bielenstein, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1966)

Geological cartography by B.H. Orman, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

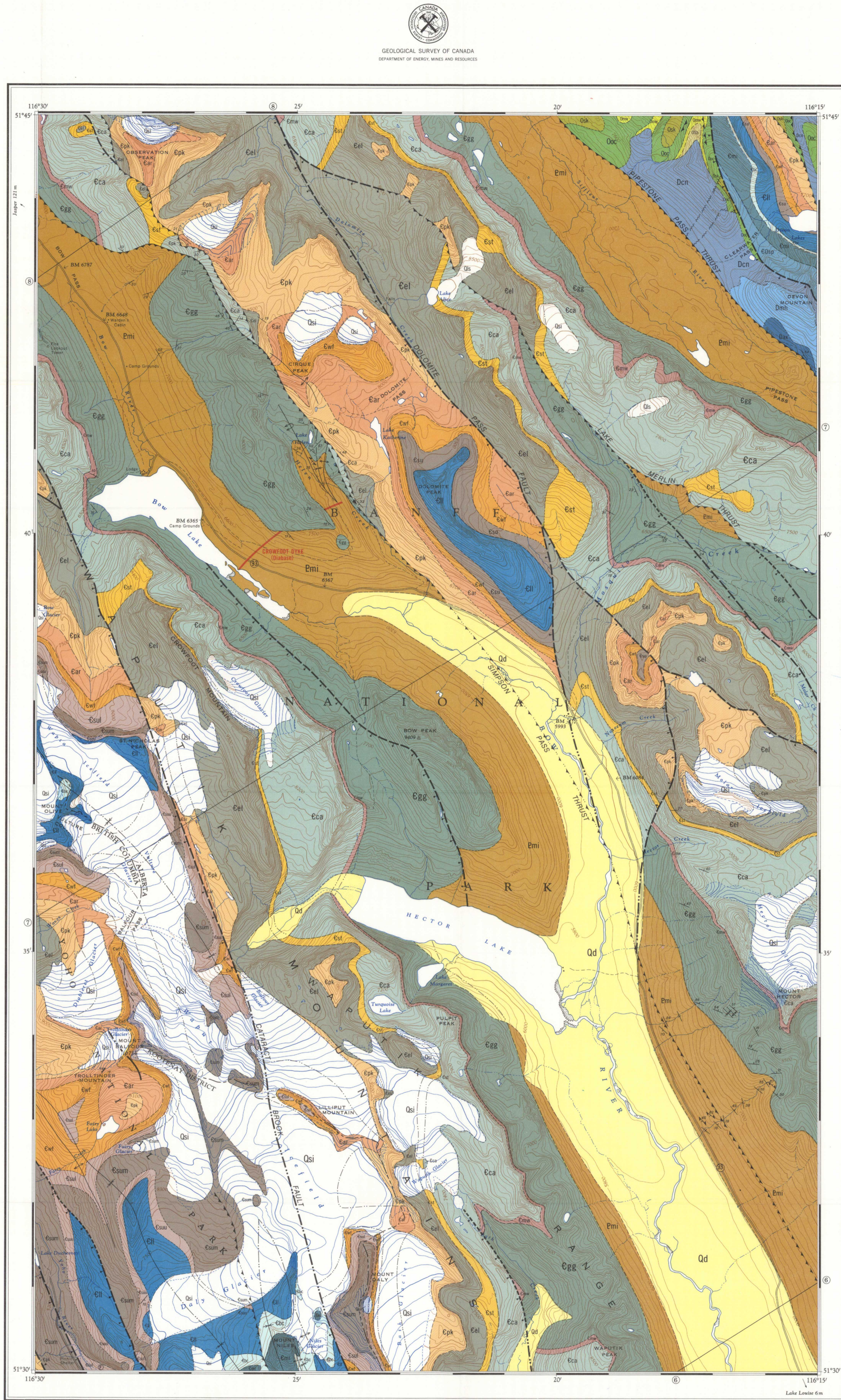
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1961

Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

Approximate magnetic declination 1977, 22°16.3' East decreasing 5.3' annually

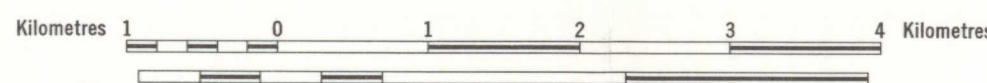
Elevations in feet above mean sea level



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MAP 1464A  
 GEOLOGY  
**HECTOR LAKE**  
 (West Half)  
 WEST OF FIFTH MERIDIAN  
 ALBERTA-BRITISH COLUMBIA

Scale 1:50,000



Transverse Mercator Projection  
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82N/15	82N/16	82O/13
1466A	1465A	1276A
82N/10	82N/9	82O/12
1464A	1463A	1274A
82N/7	82N/8	82O/5
	1297A	1296A

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS  
 MAP 1464A  
**HECTOR LAKE**  
 (West Half)  
 ALBERTA-BRITISH COLUMBIA

1464A

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