



Echo Bay Stratovolcano Complex Geology and Index Map

ovb	Overburden
d	Diabase and gabbro: near-vertical north-south and east-west trending dykes, and nearly flat-laying sheets.
G3	Biotite granite suite: Gilleran pluton, monzogranite
G3Gk	Biotite granite suite: Gilleran pluton, syenogranite
G3Ga	Biotite granite suite: Gilleran pluton, granodiorite
G3Rk	Richardson pluton: syenogranite
G2h	Hogarth pluton: medium-grained hornblende-biotite (epidote-chlorite) granodiorite and monzogranite; may pre-date Sloan Group.
G1m	Mystery Island intrusive suite: medium-grained diorite, quartz monzonite, quartz syenite, monzodiorite, and granodiorite.
Sm	Mulligan porphyry: plagioclase-quartz porphyritic intrusion; forms sills near the LaBine-Sloan group contact.
Sdi	Domex Formation: dacite and rhyodacite ash-flow tuff sheets; mostly crystal-rich; massive to eutaxitic; glomeroporphyritic (potassium feldspar) zone near the base.
Lct	Cornwall Tuff: ash-flow tuff sheet containing 5-15% crystals of plagioclase, quartz, hornblende, and potassium feldspar; nonwelded to moderately welded; propylitized intracauldron facies.
Lc	Cameron Bay Formation: volcanic-lithic and feldspathic sandstone and gritstone; ripple-laminated siltstone and mudstone; devitrified ashstone; local talus and explosion breccias near volcanic flow-domes; cauldron-collapse breccias.
Lst	Stevens Tuff: Ash-fow tuff sheet characterized by abundant, coarse, partly-resorbed phenocrysts of quartz; basal agglutinated ash beds.
Lmt	MacKenzie Tuff: composite ash-flow tuff sheet; abundant accretionary lapilli near the top on MacKenzie Island; much interbedded sandstone on Vance Peninsula.
Llt	Lindsley Tuff: ash-flow tuff sheet containing up to 25% crystals, zoned from mostly quartz near the base to mostly plagioclase near the top; probably intracauldron facies on Achook Island, Stevens Island and MacKenzie Island.
Lef	Sparkplug Lake Member: porphyritic andesite flows and breccia distinguished only by their stratigraphic position above the MacKenzie Tuff; includes a small cone and vent complex south of Lindsley Bay.
Les	Surprise Lake Member: porphyritic (hornblende-augite-plagioclase) andesite flows and breccia; many flows trachytic; some flows oxidized to a brick-red colour; includes thin sedimentary interbeds (Les') and minor lahatic breccia.
Lec	Cobalt Porphyry Member: intrusive hornblende-plagioclase porphyry and microdiorite.
Lem	Mile Lake Member: porphyritic andesite flows interbedded with volcanogenic sandstone and conglomerate, and andesitic lapilli tuff and ashstone.
Lp	Port Radium Formation: thin-bedded, fine-grained sandstone and siltstone with at least two carbonate interbeds less than 1m thick; all exposures lie within alteration haloes of the Mystery Island intrusive suite.

1. Echo Bay Index Map (this map)
2. Glacier Lake East Geology
3. Cross Fault Lake Geology
4. Port Radium Geology
5. Breccia Island Geology
6. East Boundary Zone Geology
7. Gossan Island Geology
8. Dowdell Peninsula Geology
9. Hoy Bay Hydrothermal Alteration
10. East Mile Lake Geology
11. Contact Plateau Geology
12. K1 Grid Geology
13. Mag Hill - Northeast Block
14. Mag Hill - Central Block
15. Mag Hill - Southwest Block
16. Skinny Lake Geology
17. Richardson Pluton Uranium Anomaly
18. Contact Lake Belt Hydrothermal Alteration

0 1 2 3 4 5
Kilometres
Universal Transverse Mercator Zone 11
North American Datum 1927

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