

LEGEND

- |  |  |   |  |
|--|--|---|--|
| STRATIFIED AND VOLCANIC ROCKS                  |  | PLUTONIC ROCKS  |  |
| <b>RECENT</b>                                  | <b>7</b> Alluvium  | <b>H</b> Post volcanic (unit 6) granite                       |  |
| <b>TERTIARY (?)</b>                            | <b>6</b> Volcanic rocks  | <b>G</b> Quartz monzonite, minor granodiorite                 |  |
|  |  | <b>F</b> Granodiorite, minor quartz diorite, quartz monzonite |  |
|  |  | <b>E</b> Quartz diorite, minor diorite, granodiorite          |  |
|  |  | <b>D</b> Diorite, minor quartz diorite                        |  |
|  |  | <b>C</b> Gabbro and diorite                                   |  |
|  |  | <b>B</b> Ultrabasic rock                                      |  |
| <b>LATE JURASSIC</b>                           | <b>5</b> Bowser Lake Group (?)<br>Greywacke and argillite  |   |  |
| <b>EARLY MESOZOIC (?) and/or PALEOZOIC (?)</b> | <b>4</b> Metasedimentary rocks of greenschist facies: 4a, Black to dark grey graphitic schist; 4b, Intercalated pale and dark schist; 4c, Intercalated chlorite and sericite schist  | <b>A</b> Older plutonic rocks                                 |  |
|  | <b>3</b> Weakly metamorphosed volcanic rocks: 3a, Tuff; 3b, Agglomerate and volcanic breccia; 3c, Rhyolite tuffs and flows; 3d, Schistose metavolcanic rocks; 3e, Mixed volcanic and plutonic rocks; 3f, Limestone, quartzite and sericite schist, minor graphite schist (These are mappable intercalations in the metavolcanic rocks)   |   |  |
|  | <b>2</b> Metasedimentary rocks of amphibolite facies: 2a, Rusty weathering muscovite ± biotite ± garnet ± amphibole schist; minor amphibolite and micaceous quartzite; 2b, Feldspathic schist, impure quartzite and hornblende schist; 2c, Dark greenish grey hornblende ± biotite ± garnet schist and impure quartzite with rare intercalated marble; 2d, Black to dark grey graphitic schist with local interbedded conglomerate, greywacke and marble; 2e, Mt. Morse felsic rocks of uncertain origin; 2f, Marble |   |  |
| <b>PALEOZOIC (?)</b>                           | <b>1a</b> Dominantly buff grey leucogneiss and migmatite   |   |  |
|  | <b>1b, 1c, 1d</b> 1b, Dominantly grey biotite ± hornblende gneiss, amphibolite, minor sillimanite ± garnet gneiss; 1c, Work Channel amphibolite; 1d, Dominantly biotite hornblende gneiss, amphibolite and minor migmatite, rare biotite ± muscovite ± garnet ± kyanite schist and gneiss  |   |  |
|  | <b>1e</b> Migmatitic plutonic rock   |   |  |

SYMBOLS

- |   |  |
|---|--|
| Limestone or marble   | Occurrences of clinopyroxene                           |
| Conglomerate  | Areas in which clinopyroxene is inferred to be present |
| Conglomerate with plutonic clasts                                       |  |
| Occurrences of potash feldspar megacrysts                               |  |
| Areas in which megacrysts of potash feldspar are inferred to be present |  |
| Geological boundary (defined, approximate, assumed)                     |  |
| Bedding, tops known (horizontal, inclined, vertical, overturned)        |  |
| Bedding, tops unknown (inclined, vertical)                              |  |
| Schistosity or gneissosity (horizontal, inclined, vertical)             |  |
| Lineaments and/or stratification (from air photographs or observations) |  |
| Axes of minor folds (horizontal, plunging)                              |  |
| Fault (defined, approximate, assumed)                                   |  |
| Thrust fault (assumed)  |  |
| Synform (defined, approximate)  |  |
| Antiform (defined, approximate, overturned)                             |  |
| Fossil locality   |  |
| Locality where age has been determined, in millions of years            |  |
| Mineral deposit or occurrence (Number refers to description in text)    |  |
| Hot Springs   |  |

Geology by W.W. Hutchison 1962-1966, J.G. Souther 1963, A.J. Baer 1963, 1964, P.E. Fox 1963, S. Nelson 1963

Compiled by W.W. Hutchison 1971

To accompany Memoir 394 by W.W. Hutchison

Geological cartography by the Geological Survey of Canada

The geological information on this map is portrayed using computer-assisted and traditional cartographic methods. Automated techniques involved symbol and pattern design, the production of edit plots for checking, the cutting of peel-coats and the scribing of all boundaries, patterns, and symbols. Input equipment, data processing, and plotting facilities were provided by the automated cartography unit of the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

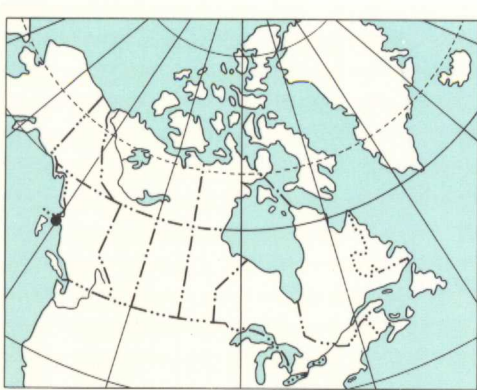
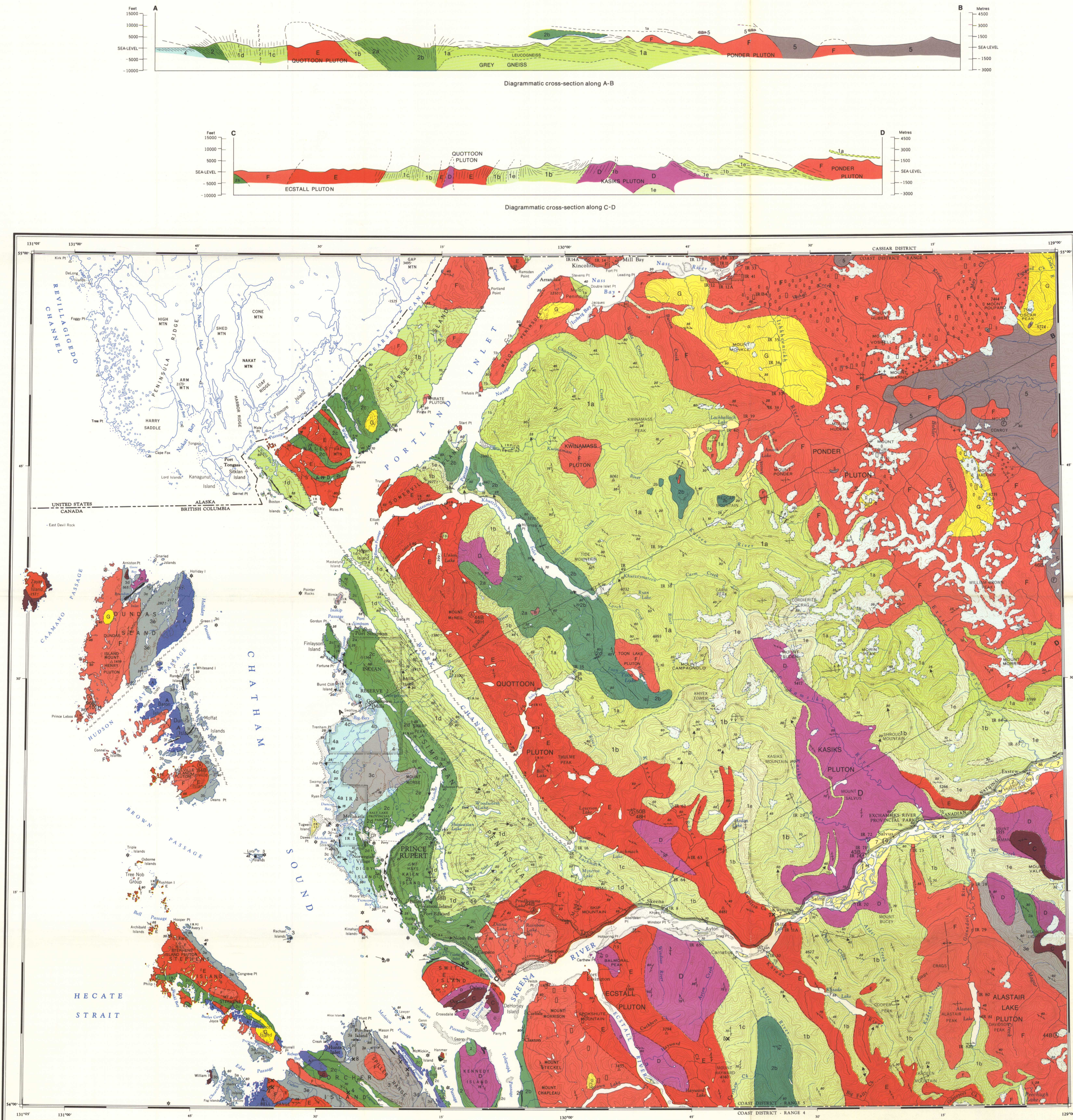
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-maps at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1958-60; and by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, 1967

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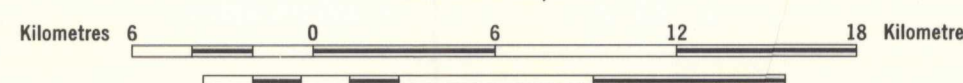
Magnetic declination 1978: 26°51' East decreasing 2.5' annually. Readings vary from 20°21' in SE corner to 27°11' in the NW corner of the map.

Elevations in feet above mean sea-level



MAP 1472A  
GEOLOGY  
PRINCE RUPERT - SKEENA  
BRITISH COLUMBIA

Scale 1:250,000



Universal Transverse Mercator Projection  
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103P	103J	103I
103K	MAP 1472A	103B
103F	103G	103H
	23-1970	

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

MAP 1472A

PRINCE RUPERT-SKEENA  
BRITISH COLUMBIA

1472A

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