GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

CENOZOIC

QUATERNARY
PLEISTOCENE AND RECENT
23 Glacial and alluvial deposits

TERTIARY
22 Rhyolitic, to dacitic tuff, breccia, ignimbrite

21 Hornblende quartz diorite, leucoquartz monzonite, porphyritic dacite, breccia

CRETACEOUS OR TERTIARY
20 Sandstone, conglomerate

CRETACEOUS AND (?) TERTIARY
UPPER CRETACEOUS AND (?) TERTIARY
NANAIMO GROUP (11-19)
19 GABRIOLA FORMATION: sandstone, conglomerate, shale

UPPER CRETACEOUS
18 SPRAY FORMATION: siltstone, shale, fine sandstone

17 GEOFFREY FORMATION: conglomerate, sandstone

16 NORTHUMBERLAND FORMATION: siltstone, shale, fine sandstone

15 DE COURCY FORMATION: conglomerate, sandstone

14 CEDAR DISTRICT FORMATION: shale, siltstone, fine sandstone

13 EXTENSION-PROTECTION FORMATION: sandstone, conglomerate, shale, coal

12 HASLAM FORMATION: shale, siltstone, fine sandstone

11 COMOX FORMATION: sandstone, conglomerate, shale, coal: 11a is BENSON MEMBER: mainly coarse conglomerate

MESOZOIC

UPPER JURASSIC AND/OR LOWER CRETACEOUS
10 'Tofino Area Greywacke Unit'
Greywacke, argillite, conglomerate

JURASSIC
MIDDLE TO UPPER JURASSIC
9 ISLAND INTRUSIONS: biotite-hornblende granodiorite, quartz diorite

TRIASSIC AND JURASSIC
LOWER JURASSIC(?)
VANCOUVER GROUP (5-8)
BONANZA SUBGROUP (7, 8)
8 VOLCANIC DIVISION: andesitic to latitic breccia, tuff and lava; minor greywacke, argillite and siltstone

UPPER TRIASSIC AND LOWER JURASSIC
7 SEDIMENTARY DIVISION: limestone and argillite, thin bedded, silty carbonaceous

UPPER TRIASSIC
6 QUATSINO FORMATION: limestone, mainly massive to thick bedded, minor thin bedded limestone

UPPER TRIASSIC AND OLDER
5 KARMUTSEN FORMATION: pillow-basalt and pillow-breccia, massive basalt flows; minor tuff volcanic breccia. Jasperoid tuff, breccia and conglomerate at base

TRIASSIC OR PERMIAN
4 Gabbro, peridotite, diabase

PALEOZOIC

PENNSYLVANIAN, PERMIAN AND OLDER
LOWER PERMIAN
SICKER GROUP (1-3)
3 BUTTLE LAKE FORMATION: limestone, chert

MIDDLE PENNSYLVANIAN
2 Argillite, greywacke, conglomerate; minor limestone, tuff

PENNSYLVANIAN AND OLDER
1 Volcanic breccia, tuff, argillite; greenstone, greenschist; dykes and sills of andesite-porphyry

'WESTCOAST CRYSTALLINE COMPLEX' (A-D)
'BASIC ROCKS'
D Gabbro, peridotite

'TOFINO INLET PLUTON'
C Hornblende-biotite quartz diorite, granodiorite

'WESTCOAST DIORITES'
B Hybrid hornblende diorite, quartz diorite, agmatite; includes masses of hornfelsic volcanic rocks

'WESTCOAST GNEISS COMPLEX'
A Hornblende-plagioclase gneiss, amphibolite, hornfels

Geological boundary (approximate)
Bedding (inclined, vertical, overturned)
Schistosity, foliation (inclined)
Schistosity, foliation and minor fold axes (inclined, vertical, arrow indicates plunge)
Lineation (axes of minor folds)
Fault (approximate); lineament

Geology by J. E. Muller, 1963-1967.
Includes contributions by W. G. Jeffery, D. J. T. Carson

To accompany GSC Paper 68-50 by J. E. Muller

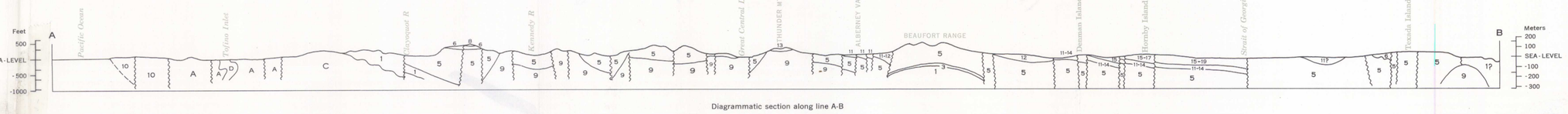
This preliminary edition may be subject to revision and correction

Geological cartography by the Geological Survey of Canada, 1969

Base-map compiled by the Surveys and Mapping Branch, Department of Lands and Forests, British Columbia, 1961-62

Magnetic declination 1968 varies from 22° 51' easterly at centre of east edge to 23° 09' easterly at centre of west edge. Mean annual change decreasing 2.7'

Elevations in feet above mean sea-level



Diagrammatic section along line A-B

PRELIMINARY SERIES

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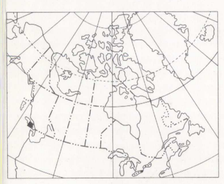


INDEX MAP

MAP 17-1968
PAPER 68-50

GEOLOGY

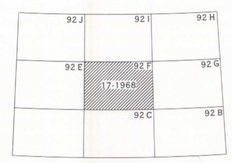
ALBERNI

BRITISH COLUMBIA

Scale 1:250,000

Miles 4 0 4 8 12 Miles
Kilometres 6 0 6 12 18 Kilometres

Printed by the Surveys and Mapping Branch



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE
ALBERNI
BRITISH COLUMBIA

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