

SYMBOL	NAME	SURFICIAL DEPOSITS		LANDFORM		COMMENTS
		MATERIAL	THICKNESS (metres)	TOPOGRAPHY	SLOPES (degrees)	
I	man-made terrain	diamicton, rubble, gravel, sand	>2	plain	0-3	landfill
O	glacier ice	ice and snow	>20	rolling, sloping, crevassed	1-30	steep slopes occur in areas of ice falls
O	organic terrain	peat, muck	>15	plain	0-3	bogs, fens, swamps
	organic blanket	peat, muck	>1	takes form of underlying surface	0-10	
C	landslide	diamicton, blocks and rubble of local bedrock	>3	hummocky, rolling	0-35 0-15	includes landslides involving bedrock and landslides involving unconsolidated Quaternary sediments
	avalanche fan, debris-flow fan	gravel, diamicton	>5	fan	5-30	includes fans with entrenched channels and fans close to lake level
C	talus	blocks and rubble of local bedrock	>2	apron, sheet	25-35	little or no vegetation on presently active slopes
	colluvial blanket	colluvium	>1	takes form of underlying surface	1-35	includes slopewash, minor talus, talus stabilized by vegetation
C	colluvial veneer	colluvium	0.5-1	takes form of underlying surface	1-40	includes slopewash, minor talus, talus stabilized by vegetation
	alluvial fan	gravel and sand	>5	fan	1-20	includes terraced fan remnants (ATL) fans with entrenched channels, and fans close to local base level
A	floorplain	gravel and sand	>2	plain with shallow channels	0-3	includes low benches subject to occasional flooding
	valley floor complex	alluvium and colluvium	>2	plain, fan, terraces, lower valley walls	0-35	includes Ap, At, Ar, and Cr; differentiation of these units is not possible at scale of map
A	alluvial veneer	gravel and sand	0.5-1	takes form of underlying surface	0-20	
	river terrace	gravel and sand	>2	terrace and scarp	>2	generally one to several metres of sand overlying gravel
A	delta	gravel and sand	>5	terrace	0-5	marine delta
	kames, ice stagnation terrain	gravel and sand	>10	rolling, hummocky	0-15 0-30	unit deposited in contact with stagnant glacier ice; interbeds of diamicton commonly present in unit
A	esker	gravel and sand	>10	ridge	0-30	unit deposited beneath and within stagnant glacier ice
	glaciofluvial blanket	gravel and sand	>1	takes form of underlying surface	0-20	
A	glaciofluvial veneer	gravel and sand	0.5-1	takes form of underlying surface	0-20	
	glaciofluvial fan	gravel and sand	>10	fan	1-30	ice contact feature, commonly with kettles
A	kame terrace	gravel and sand	>10	terrace and scarp	0-3	ice contact feature, commonly with kettles
	delta	gravel and sand	>10	terrace, fan	0-20	proglacial and ice-contact lacustrine and marine deltas
L	rolling glaciolacustrine terrain	silt, clay, minor sand (locally with dropstones)	>2	rolling	0-10	ice-marginal depositional environment, relict lake floor
	glaciolacustrine terrace	silt, clay, minor sand (locally with dropstones)	>2	terrace	0-3	
L	glaciolacustrine blanket	silt, clay, minor sand (locally with dropstones)	>1	takes form of underlying surface	0-10	
	glaciolacustrine veneer	silt, clay, minor sand (locally with dropstones)	0.5-1	takes form of underlying surface	0-15	
W	rolling glaciomarine terrain	silt, clay (locally with dropstones)	>2	rolling	0-10	proglacial depositional environment, relict seafloor
	glaciomarine plain	silt, clay (locally with dropstones)	>2	plain	0-2	proglacial depositional environment
W	glaciomarine blanket	silt, clay (locally with dropstones)	>1	takes form of underlying surface	0-15	
	glaciomarine veneer	silt, clay (locally with dropstones)	0.5-1	takes form of underlying surface	0-20	
M	ground moraine	fill	>2	rolling	0-15	constructional morainic topography (not controlled by form of underlying unit)
	fill blanket	fill	>1	takes form of underlying surface	0-20	
D	fill veneer	fill	0.5-1	takes form of underlying surface	0-25	
	drift	fill, gravel, and colluvium	>2	rolling, rolling	0-15	constructional drift topography (not controlled by form of underlying unit)
D	drift blanket	fill, gravel, and colluvium	>1	takes form of underlying surface	0-25	
	drift veneer	fill, gravel, and colluvium	0.5-1	takes form of underlying surface	0-30	
R	terrace scarps, river banks	all types of unconsolidated Quaternary sediments	>20 (scarp height)	steep erosional slopes	>30	unit consists of several stratigraphic units of contrasting lithologies, in places with a blanket or veneer of colluvium
	bedrock			rolling, sloping, hummocky, ridged	0-60	thin (<0.5 m) or no cover of unconsolidated Quaternary sediments
R	canyon walls, river banks			steep slopes	>45	Rs used mainly in conjunction with Us for canyon walls

Does not occur as a dominant unit on this sheet

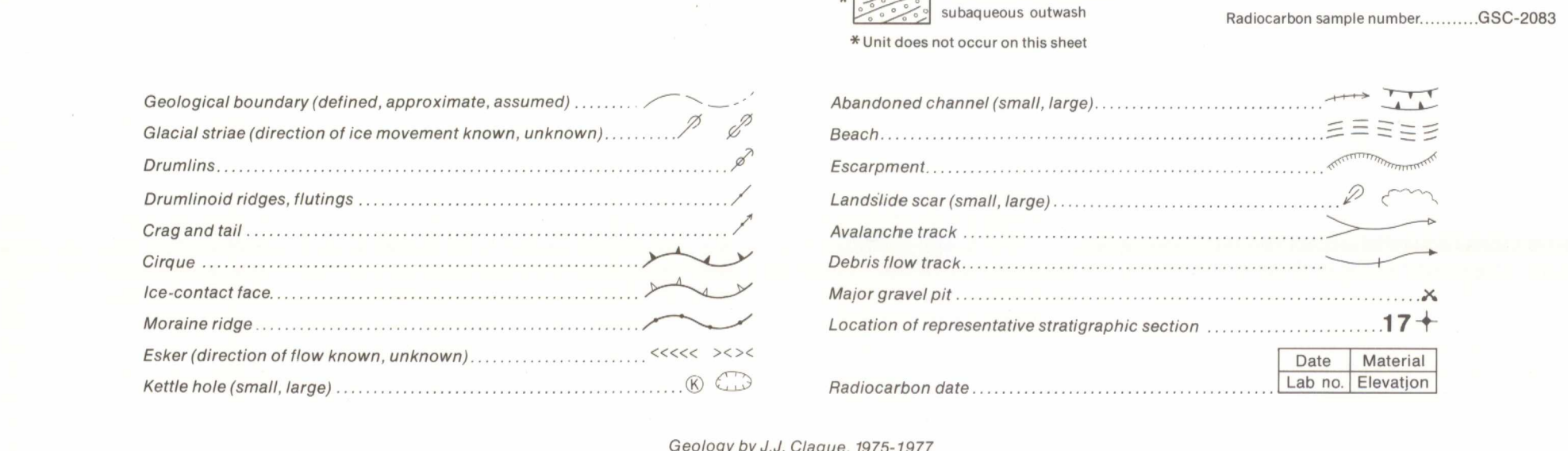
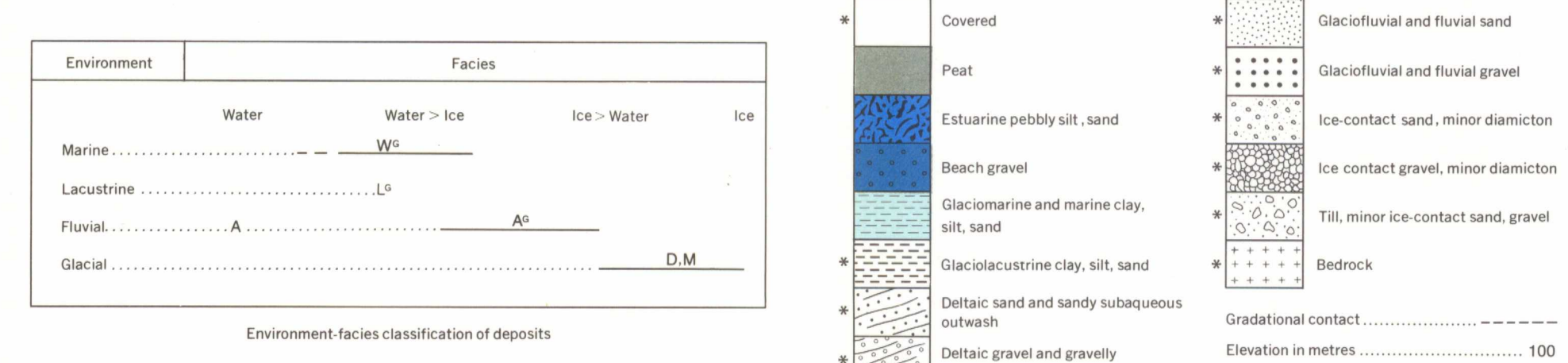
Explanation of letter notation

A combination of letters is used to designate each map unit or component of compound map units, e.g. Ap. The upper case letter indicates the broad genetic class. The lower case letter(s) that generally follows indicates morphology. The texture of most map units is implicit in the genetic type (see "material" in above table); in such cases no specific textural symbol is used. Where the texture of a unit is different from the dominant or expected texture indicated in the table, a lower case textural symbol precedes the upper case genetic symbol, e.g. CrM. Postdepositional modification or erosion of a unit is indicated by an upper case letter which follows the lower case morphological symbol and is separated from it by a dash, e.g. Cr-A. Compound map units are designated by more than one group of letters separated by a colon, e.g. Ap:Ar. These areas consist of more than one component that could not be separated at the scale of the map. The component to the left of the colon is dominant to that to the right. One term placed above another, e.g. Cr/D, indicates a stratigraphic succession within the unit. No compound symbolization is used for sediment veneers overlying bedrock—unless otherwise indicated, the presence of the veneer symbol, e.g. Ov, indicates that the underlying unit is rock.

ELUC (1976) provides a complete description of a letter notation system similar to the one used here.

ELUC (1976) Terrain classification system, Victoria, British Columbia, 56p. (available from Assessment and Planning Division, Ministry of Environment, Parliament Buildings, Victoria).

Texture	Genetic class	Morphologic subdivision	Process or form modifiers
g - gravel	x - man-made	L ⁺ - glaciolacustrine	a - apron
s - sand	l - ice	W ⁺ - glaciomarine and marine	b - blanket
1 - silt and clay	O - organic	M - moraine	d - delta
g - silt	C - colluvial	D - drift	f - ridged
	A - alluvial	h - hummocky	t - terraced
	Al - glaciofluvial	u - undifferentiated	v - veneer
		R - bedrock	m - rolling
			x - complex



Geological cartography by L.A. Daley, Geological Survey of Canada

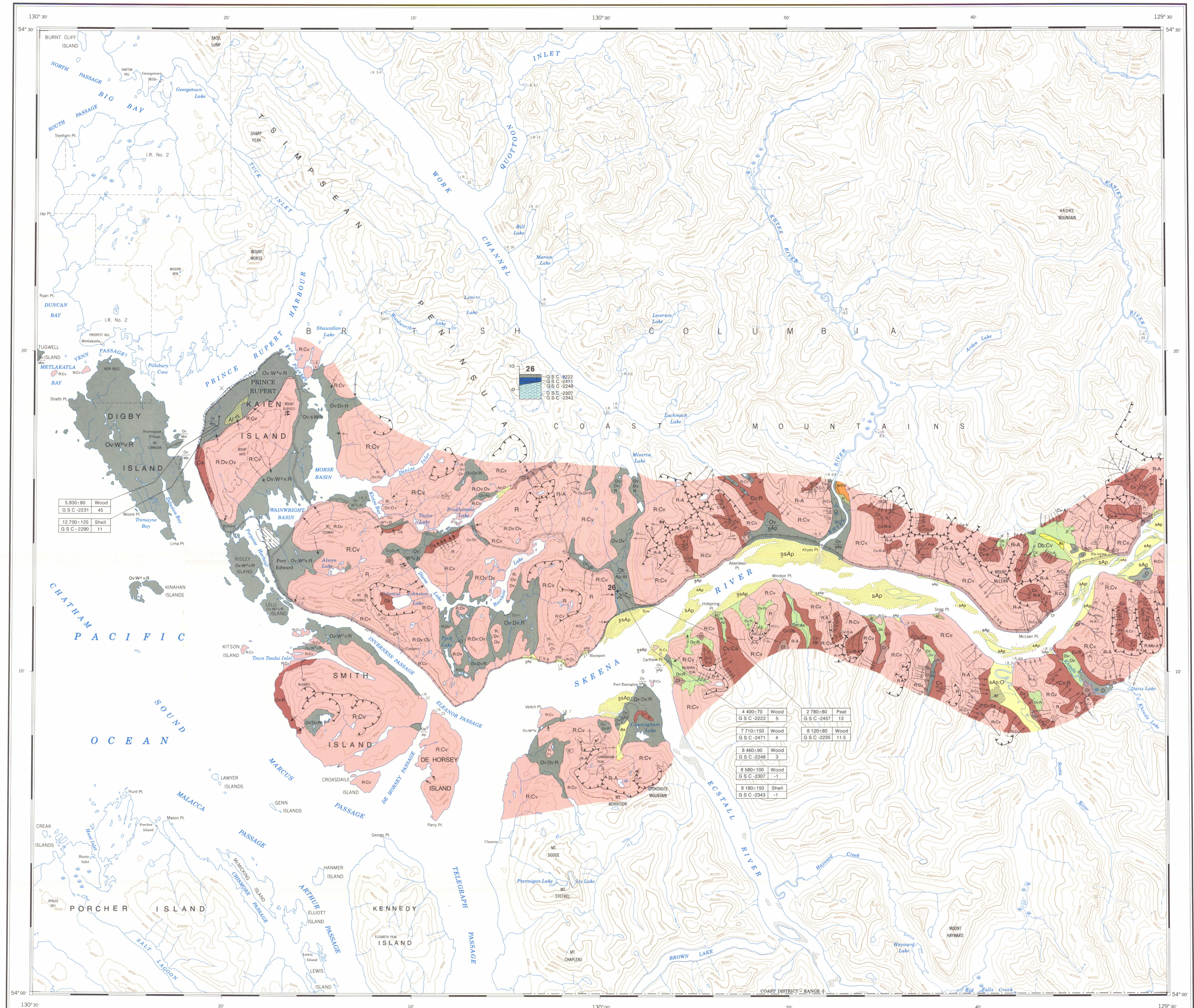
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map cartography by the Geological Survey of Canada from 1:50 000 scale maps 103-1/4, 103-1/5, 103-1/7 and 103-1/8 published by the Surveys and Mapping Branch in 1954, 1955 and 1961

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

Approximate magnetic declination 1981, 25°46'7" East, decreasing 7.7' annually

Elevations in feet above mean sea level



MAP 1557A
 SURFICIAL GEOLOGY
SKEENA RIVER - BULKLEY RIVER AREA
 SHEET 1
 BRITISH COLUMBIA
 Scale 1:100 000

Kilometres 2 0 2 4 6 8
 Miles 2 0 2 4 Miles

Universal Transverse Mercator Projection
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 SKEENA RIVER - BULKLEY RIVER AREA
 BRITISH COLUMBIA

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