

KLAUENE LAKE MAP AREA - SUMMARY REPORT
KLAUENE LAKE MAP AREA - NTS 115F (E1/2) and 115G

INTRODUCTION
 The GEOPROCESS File is a compilation of information and knowledge on geological processes and terrain hazards, including mass movement processes, erosion, flooding, debris flows, landslides, and permafrost. This report provides a summary of the information contained in the GEOPROCESS File and is intended to be used as a reference for the Klauene Lake map area.

Geological Processes and Terrain Hazard Compilation
 The GEOPROCESS File maps were drafted on the 1:250,000 topographic base maps through interpretation from geological maps and field notes. The compilation maps have a contour interval of 100 m and are based on the original source material. All symbols used in the maps are listed in the references to this report.

Geological Processes
 The Klauene Lake area is underlain by a variety of geological structures and processes. The Klauene River is a major feature of the area, and its course is controlled by the Klauene River Fault. The Klauene River is a major source of sediment to the Klauene River delta, and its course is controlled by the Klauene River Fault. The Klauene River is a major source of sediment to the Klauene River delta, and its course is controlled by the Klauene River Fault.

Tectonic Belts and Terranes
 The Klauene Lake area is situated within the Klauene River Basin, which is a tectonic basin bounded by the Klauene River Fault to the north and the Klauene River Fault to the south. The Klauene River Basin is a tectonic basin bounded by the Klauene River Fault to the north and the Klauene River Fault to the south.

Glacial Limits
 The Klauene Lake area has a long history of glaciation. The Klauene River Basin was once covered by a large ice sheet, and the Klauene River Basin was once covered by a large ice sheet. The Klauene River Basin was once covered by a large ice sheet, and the Klauene River Basin was once covered by a large ice sheet.

Distribution of Recent Soils
 The Klauene Lake area has a variety of soil types, including tundra, forest, and agricultural soils. The Klauene Lake area has a variety of soil types, including tundra, forest, and agricultural soils. The Klauene Lake area has a variety of soil types, including tundra, forest, and agricultural soils.

Permafrost
 The Klauene Lake area has a variety of permafrost types, including continuous, widespread, and scattered permafrost. The Klauene Lake area has a variety of permafrost types, including continuous, widespread, and scattered permafrost. The Klauene Lake area has a variety of permafrost types, including continuous, widespread, and scattered permafrost.

Location Map
 The Klauene Lake area is located in the Klauene River Basin, which is a tectonic basin bounded by the Klauene River Fault to the north and the Klauene River Fault to the south. The Klauene River Basin is a tectonic basin bounded by the Klauene River Fault to the north and the Klauene River Fault to the south.

LEGEND

MAP SYMBOL	DESCRIPTION	ASSOCIATED RISK LEVELS, COMMENTS
[A]	Mass Movement Processes	High
[B]	Fluvial Processes	Intermediate to High
[C]	Permafrost	Low
[D]	Glacial Processes	Intermediate to High
[E]	Other Features	Low

LEGEND GEOLOGICAL PROCESSES

MAP SYMBOL	DESCRIPTION	ASSOCIATED RISK LEVELS, COMMENTS
[cf]	Colluvium covered slope, gentle to moderate slope, underlain by unsorted debris, solifluction and other periglacial features common.	High
[fa]	Alluvial fan, active.	Intermediate to High
[fb]	Floodplain.	Intermediate to High
[fc]	Glacier ice.	High
[fd]	Mountain ice caps.	High
[fe]	Cliff glacier.	High
[ff]	Lacustrine or glaciolacustrine sediments.	Intermediate to High
[fg]	Rock glacier, debris covered glacier.	Intermediate to High

LEGEND FAULTS

MAP SYMBOL	DESCRIPTION	ASSOCIATED RISK LEVELS, COMMENTS
[f1]	Fault defined, approximate, assumed, extrapolated beneath overburden.	High
[f2]	Solid circles indicates downthrown side.	High
[f3]	Thrust fault (both indicate upthrown side).	High

LEGEND QUATERNARY VOLCANISM

MAP SYMBOL	DESCRIPTION	ASSOCIATED RISK LEVELS, COMMENTS
[v1]	Unit shown is Holocene to Pleistocene and Tertiary/Wisconsinan.	High
[v2]	Unit shown is Holocene to Pleistocene and Tertiary/Wisconsinan.	High

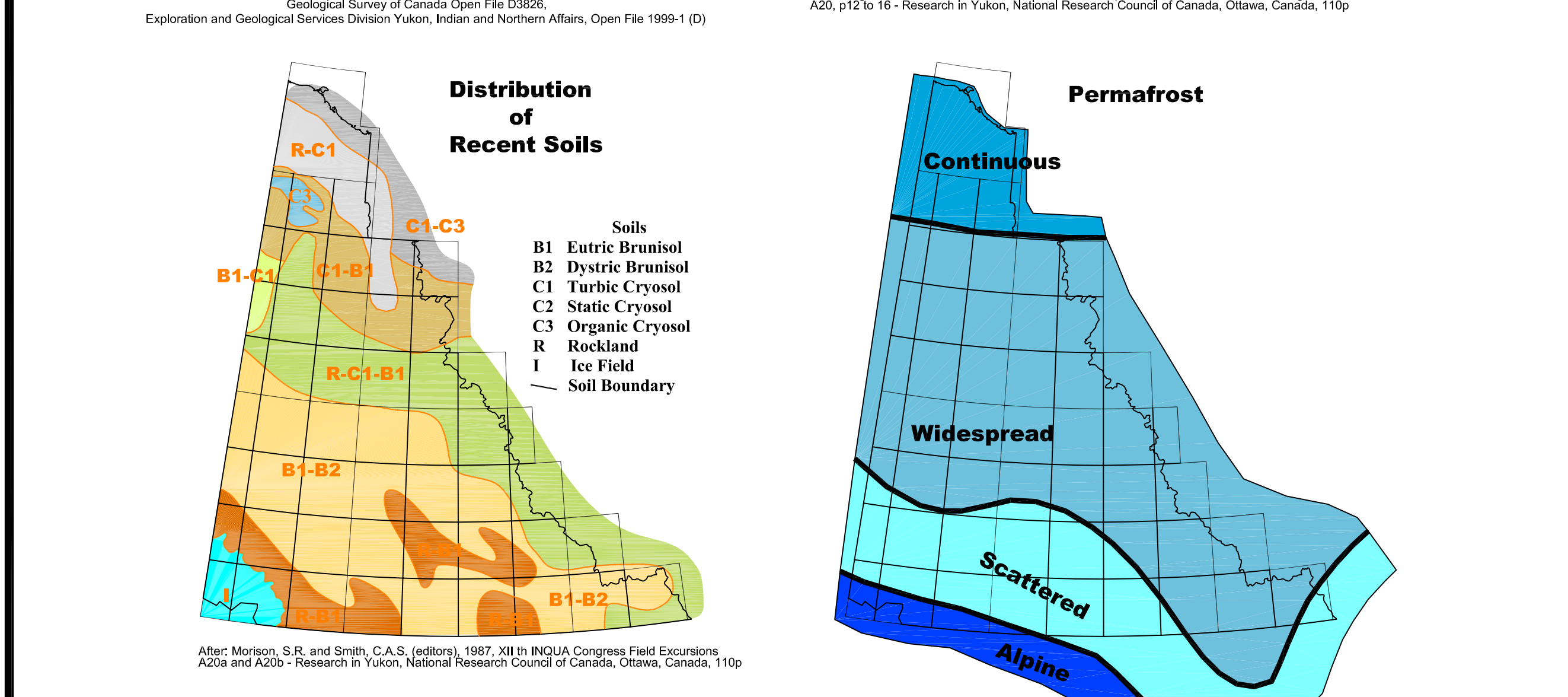
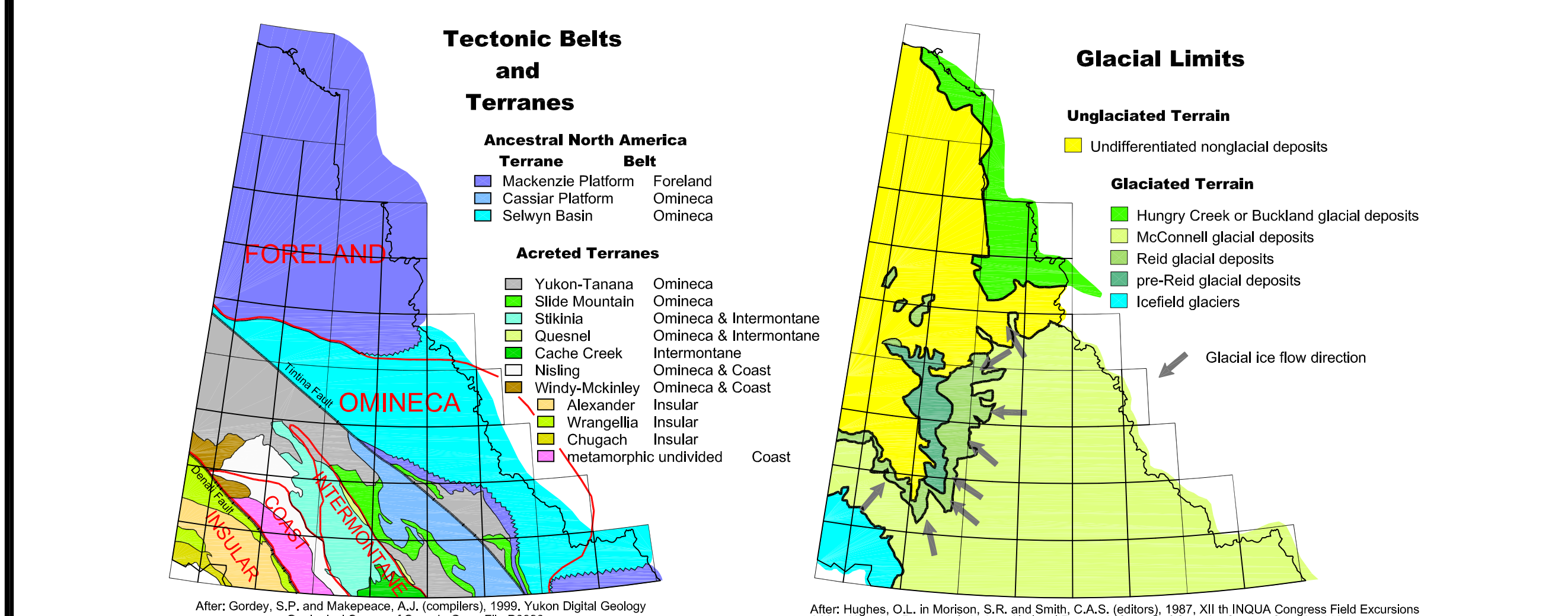
LEGEND SEISMIC EVENTS

SYMBOL	MAGNITUDE REPRESENTED	SYMBOL	MAGNITUDE REPRESENTED
[S1]	< 2.0	[S2]	4.0 to 4.999
[S3]	2.0 to 2.999	[S3]	5.0 to 5.999
[S4]	3.0 to 3.999	[S4]	> 6.0

OTHER FEATURES

- Roads
- Lakes
- Streams
- Marsh

NOTE: Where areas have more than one identified process or hazard, the colour of the encompassing polygon is assigned based on a hierarchical scheme relating to the severity of the hazard. The relative order of severity is: Terrain Hazards (Mass Movement Processes then Fluvial Processes then Arctic, Alpine and Periglacial Processes) followed by Geological Processes.



Exploration and Geological Services Division
 Yukon Region
 Indian and Northern Affairs Canada

Yukon GEOPROCESS File
Geological Processes and Terrain Hazards
of
Klause Lake
115G & 115F (E1/2)

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Copies of this map may be obtained from Geological and Information Sales c/o Whitehorse Mining Recorder, Indian and Northern Affairs Canada, Room 102, 300 Main Street, Whitehorse, Yukon Y1A 2B5
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