

DESCRIPTIVE NOTES

INTRODUCTION
The Quaternary geology component of the Slave Province Mapping Program was designed to provide a regional framework for general interpretative, environmental management, and other purposes. As a contribution to the Slave Province Mapping Program, this map was prepared by the Geological Survey of Canada, Northwest Territories District of Mackenzie, in cooperation with the Geological Survey of Canada, Northwest Territories District of Mackenzie, and the Northwest Territories Department of Environment and Natural Resources. The map was prepared by the Geological Survey of Canada, Northwest Territories District of Mackenzie, in cooperation with the Geological Survey of Canada, Northwest Territories District of Mackenzie, and the Northwest Territories Department of Environment and Natural Resources. The map was prepared by the Geological Survey of Canada, Northwest Territories District of Mackenzie, in cooperation with the Geological Survey of Canada, Northwest Territories District of Mackenzie, and the Northwest Territories Department of Environment and Natural Resources.

PHYSIOGRAPHY AND DRAINAGE
The Napaktulik Lake map area is in the north-central District of Mackenzie. Elevations range between 300 m and 1400 m. Local relief varies between 100 m and 200 m in the eastern half of the map area where gravelly bedrock is present. In the western half, the relief is generally less than 100 m. The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River. The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River.

BEDROCK GEOLOGY
The study area straddles the northern trending boundary between the Archaean Slave Province and the Proterozoic sedimentary cover of the Napaktulik Lake area. The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River. The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River.

SURFICIAL SEDIMENTS
The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River. The map area is bounded to the north by the Mackenzie River, to the east by the Mackenzie River, to the south by the Mackenzie River, and to the west by the Mackenzie River.

GLACIAL HISTORY
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GLACIAL INDICATORS
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QUATERNARY INVESTIGATIONS
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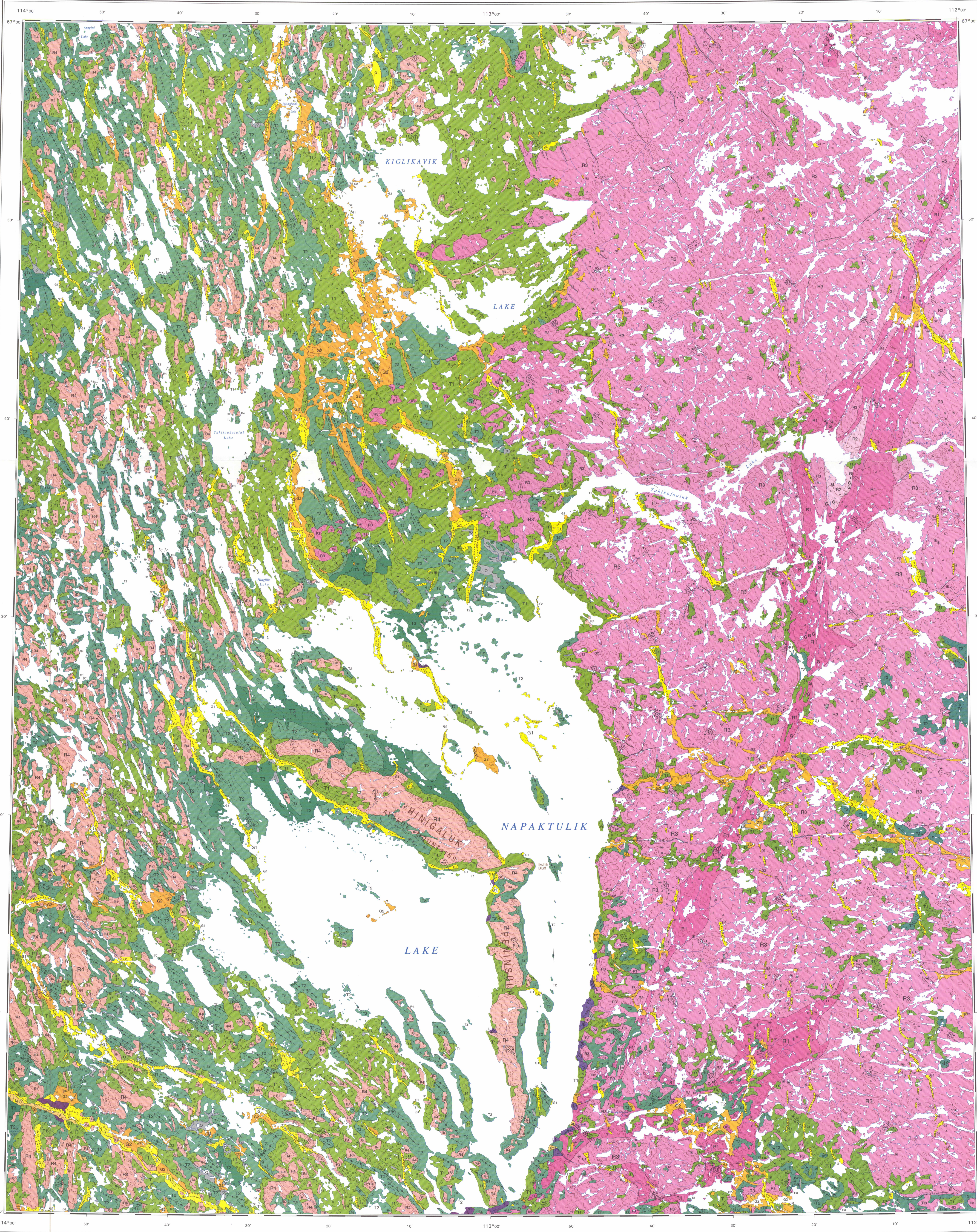
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LEGEND
QUATERNARY
HELOCENE
D ORGANIC DEPOSITS (peat and muck) up to 20 m thick, formed predominantly by the accumulation of organic material in water-saturated conditions...
A ALLUVIAL DEPOSITS, gravel to silt size sediment deposited by modern streams and rivers...
PLEISTOCENE (WISCONSIN GLACIATION)
GLACIAL ENVIRONMENT
L1 GLACIOLASTIC DEPOSITS: silt, sand, and gravel cross stratified to planar bedded facies...
G2 GLACIOLASTIC DEPOSITS: sand, gravel and silt more than 1 m thick, sorting ranges from good to poor...
G1 FINE GRAINED SAND, SILT AND GRAVEL: planar, cross stratified, and massive beds...
T1 TILL DEPOSITS: unsorted glacial till (claystone), consisting of a silt sand matrix containing pebbles, cobbles, and boulders...
T2 TILL DEPOSITS: unsorted glacial till (claystone), consisting of a silt sand matrix containing pebbles, cobbles, and boulders...
T3 TILL DEPOSITS: unsorted glacial till (claystone), consisting of a silt sand matrix containing pebbles, cobbles, and boulders...
PRE-QUATERNARY
BEDROCK: Archaean granitic, gneissic, metasedimentary, and metavolcanic rocks...
R4 Sedimentary rocks
R3 Granitic rocks
R2 Metasedimentary rocks
R1 Volcanic rocks

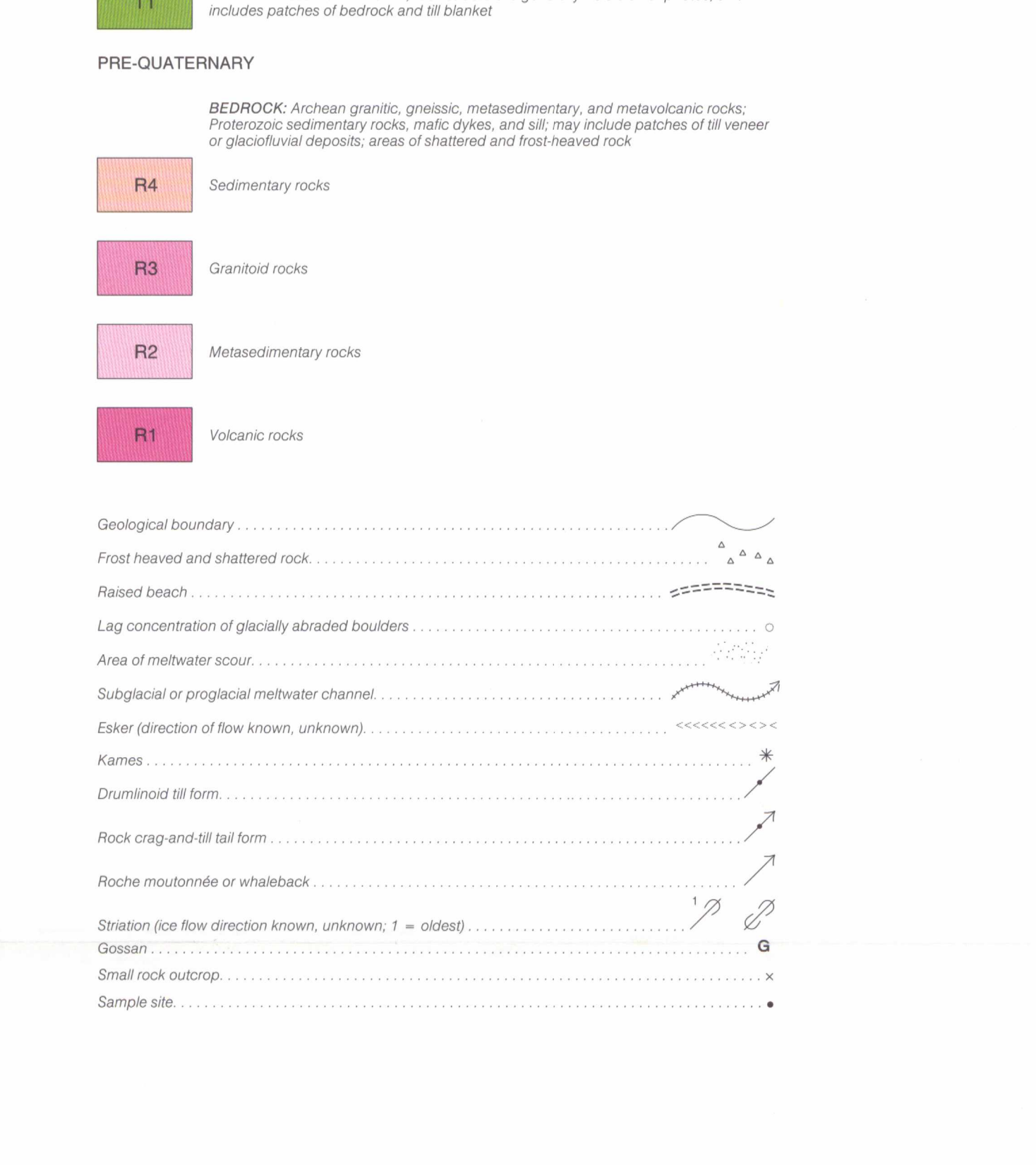


Fig. 1: Bedrock geology and class lithology map showing combined percentage of granitic and gneissic rocks. Fig. 2: Subglacial drainage systems determined from esters, flowlines, and meltwater channels. Fig. 3: Summary flow diagram based on striae and large-scale flow indicators. Fig. 4: Four maps (a, b, c, d) illustrating the evolution of glacial Lake Napaktulik from 440-438 m to 410-600 m elevation.

Fig. 4a-4d: Maps illustrating the evolution of glacial Lake Napaktulik from 440-438 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4e-4f: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4g-4h: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4i-4j: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4k-4l: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4m-4n: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4o-4p: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4q-4r: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4s-4t: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4u-4v: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4w-4x: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4y-4z: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4aa-4ab: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ac-4ad: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ae-4af: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ag-4ah: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ai-4aj: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ak-4al: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4am-4an: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ao-4ap: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4aq-4ar: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4as-4at: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4au-4av: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4aw-4ax: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ay-4az: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4ba-4bb: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4bd-4be: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4bf-4bg: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.

Fig. 4bh-4bi: Maps illustrating the evolution of glacial Lake Napaktulik from 410-600 m to 410-600 m elevation. The maps show the lake's extent and subglacial drainage patterns at different stages of its evolution.