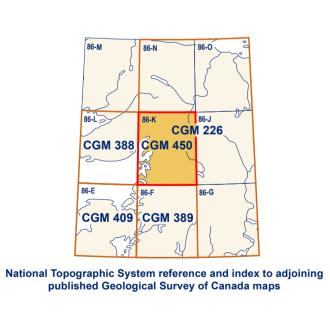
The glaciated landscape of the Sloan River map area records evidence of old southwestward ice flow, followed by younger dominant northwestward flow in northernmost areas, and westward to westsouthwestward flow in central and southern regions. Glacially and meltwater-scoured bedrock dominates the map area, with various till deposits discontinuously covering northern regions. Eskers and other glaciofluvial sediments define a poorly developed meltwater system, ranging in orientation from westward to northwestward. Meltwater channels show broader ranges of paleoflow directions in topographic highs. During deglaciation, which began about 10.5 ka BP, discontinuous north-south-trending recessional stagnating ice. Moraines in the northeast may represent the northern extension of the Forcier Moraine. Glaciolacustrine sediments associated with glacial Lake McConnell occur in the west, up to 300 m elevation. Other unrelated, isolated glaciolacustrine deltas, including those in the Coppermine River valley, occur further east up to 425 m elevation.

Le paysage glaciaire de la région cartographique de Sloan River conserve les traces d'un ancien écoulement glaciaire dirigé vers le sud-ouest, qui a été suivi d'un écoulement dominant plus récent vers le nord-ouest dans les secteurs les plus au nord, et d'un écoulement de direction ouest à ouest-sud-ouest dans les régions centrale et sud. Un substratum rocheux affouillé par les glaces et les eaux de fonte domine la région cartographique, avec divers dépôts de till recouvrant de façon discontinue les régions du nord. Des eskers et d'autres sédiments fluvioglaciaires définissent un système d'eau de fonte peu développé, dont la direction varie de l'ouest au nord-ouest. Des chenaux d'eau de fonte montrent des directions de topographiques. Au cours de la déglaciation qui a commencé vers 10,5 ka BP, des moraines de retrait discontinues d'orientation nord-sud ont été formées, définissant une ancienne marge de glace stagnante. Des moraines dans le nord-est pourraient représenter le prolongement nord de la Moraine de Forcier. Des sédiments glaciolacustres associés au Lac glaciaire McConnell sont présents dans l'ouest, jusqu'à 300 m d'altitude. D'autres deltas glaciolacustres isolés non apparentés, dont ceux de la vallée de la rivière Coppermine, sont présents plus à l'est, jusqu'à 425 m



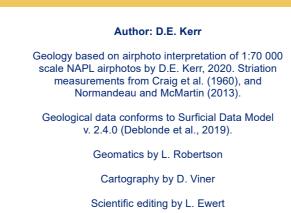
Catalogue No. M183-1/450-2022E-PDF ISBN 978-0-660-43591-6 https://doi.org/10.4095/329452

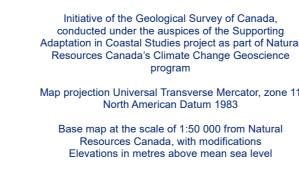
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Natural Resources Ressources naturelles Canada Canada **CANADIAN GEOSCIENCE MAP 450 RECONNAISSANCE SURFICIAL GEOLOGY SLOAN RIVER** 

Northwest Territories-Nunavut NTS 86-K 1:125 000







## **CANADIAN GEOSCIENCE MAP 450** RECONNAISSANCE SURFICIAL GEOLOGY **SLOAN RIVER** Northwest Territories-Nunavut NTS 86-K 1:125 000

Mean magnetic declination 2022, 17°54′E, decreasing 14.0' annually
Readings vary from 17°23'E in the SE corner to 18°22'E in the NW corner of the map. This map is not to be used for navigational purposes. Title photograph: Scoured outcrop, Sloan River map area, Northwest Territories. Photograph by P. Normandeau. NRCan photo 2021-196

. 78 80 82 84 86 88 90 92 94 96 98 500 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 544000 m E. 30' 20' 10' 117°00' 50' 40' 30' 20'

The Geological Survey of Canada welcomes corrections or additional information from users (gscpublications-cgcpublications@nrcan-rncan.gc.ca). Data may include additional observations not portrayed on this map. See map info document accompanying the downloaded data for more information about this publication. This publication is available for free download through GEOSCAN (https://geoscan.nrcan.gc.ca/).

**CANADIAN GEOSCIENCE MAP 450 RECONNAISSANCE SURFICIAL GEOLOGY** 

Kerr, D.E., 2022. Reconnaissance surficial geology, Sloan River, Northwest Territories-Nunavut, NTS 86-K; Geological Survey of Canada, Canadian Geoscience Map 450, scale 1:125 000.

∠
 Landslide scar, direction known

# Patterned ground, ice-wedges

Terrace scarp, escarpment

Beach crest

Kettle, small

Moraine ridge:

Kame

<><><><> Direction unknown

— — — — Buried drumlinoid ridge

— — → — → Buried crag-and-tail ridge

----- Drumlinoid ridge

→ Drumlin ridge

Esker ridge:

>>>>>>> Direction known or inferred

-->-->--> With beach ridges, direction known or inferred

Crag-and-tail ridge, 1 = older, 2 = younger

Fluted bedrock or drift:

————— Fluted drift, poorly defined, direction unspecified

 $----\rightarrow$  Fluted bedrock, poorly defined, direction known

Striation (see geodatabase): Poorly defined, direction known

Fluted bedrock, direction known, 1 = older, 2 = younger

Well defined, direction unspecified

Cross-cutting, 1 = older, 2 = younger

Recommended citation

https://doi.org/10.4095/329452

Well defined, direction known

Small outcrop

Pre-crag ridge: streamlined drift ridge formed on up-ice side of bedrock knob; tail points up-ice and thickens towards crag

Meltwater channel:

Meltwater erosional depression

Thermokarst depression

Icing, identified on airphotos dating to July, 1952

Major meltwater channel scarp, direction known

Subglacial meltwater scarp or corridor margin

**SLOAN RIVER** Northwest Territories-Nunavut NTS 86-K

Adaptation in Coastal Studies project as part of Natural Map projection Universal Transverse Mercator, zone 11

Canada

2 0 2 4 6 8 10 km