

GEOLOGY

that explains the colours and symbols utilized.

these modifications are explained in the map legend.

This map summarizes the field observations for the

Clearwater Fiord (south) map area following eight

weeks of regional and targeted bedrock mapping on

western Hall Peninsula. The 2015 field campaign

completes a two-decade mission to update map

coverage for the whole of Baffin Island south of latitude

70°N. The bedrock is dominated by a Paleoproterozoic

metaplutonic suite, ranging in composition from gabbro

to syenogranite, with crosscutting relations indicating a

progression from mafic to silicic magmatism. Prevailing

upper amphibolite to lower granulite facies metamorphic

orthopyroxene, which is consistent with equilibrium

phase diagrams and regional aeromagnetic data. Metasedimentary rocks, including quartzite, pelite,

marble, and metagreywacke, are present as screens

examination of the 'ghost' stratigraphy suggests that the

middle Paleoproterozoic Lake Harbour Group in the south and Piling Group in the north. Two basaltic dyke

swarms and shallowly dipping Ordovician limestone

respectively crosscut and overly the Paleoproterozoic

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GEOLOGICAL SURVEY OF CANADA

CLEARWATER

Baffin Island, Nunavut

FIORD (SOUTH)

CANADA-NUNAVUT GEOSCIENCE OFFICE **OPEN FILE MAP 2016-15E**

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conditions overlap the stability limits of magnetite and