

Abstract
The surficial geology mapping of the southern half of the Ellice Hills (N75°56'P60°00') was undertaken as part of the Targeted Geoscience Initiative-1 (TGI-1) Committee Bay Project in 2002 and completed in 2010 under the GEM Multiple Metals-Metalliferous Project. The project was for matrix geochemistry, kimberlite indicator minerals, and gold grain analysis. The project was completed with the mapping (McMartin et al., 2003b; Little, 2004).
The Ellice Hills-South area lies entirely within the Gulf of Boothia drainage basin. The topography is dominated by broad, terraced valleys, streamlined to rolling hills. Supracrustal rocks are exposed. In the extreme northwest (N75°56'P70°00'), gullied plains and veneers of marine sands, silts, and clays dominate the landscape. The last glacial period was covered by ice flowing generally northward from the Keweenaw ice divide located to the south. The limit of marine incursions as the ice retreated is approximately 240–250 m a.s.l. (Giangropi et al., 2003). The extensive Chantry moraine system traverses the area from east to west making a significant sillstand of the retreating ice margin.

Résumé
La cartographie de la géologie de surface de la moitié sud des collines d'Ellice (N75°56'P60°00') a été entreprise sous le projet multidisciplinaire de Comité des Baies de l'Initiative Géoscientifique Cote-1 en 2002 et achevée en 2010 dans le cadre du projet des métaux multiples métallifères de la prémière Métales sous le programme de géochimie de l'arsenic et des métaux (GEM). L'échantillonnage régional de la géologie de la moitié sud des collines d'Ellice, de l'ouest à l'est, a été complété avec la cartographie (McMartin et al., 2003b; Little, 2004).
La région d'étude de Ellice Hills-South se trouve entièrement dans le bassin de drainage du golfe de Boothia. La topographie est dominée par des vallées larges, à terrasses, et des collines à ondulations. Des roches supracrustales sont exposées. Dans l'extrême nord-ouest (N75°56'P70°00'), les plaines gullées et les veneers de sables marins, des argiles et des clays dominent le paysage. La dernière période glaciaire a été couverte par la glace qui s'écoulait généralement vers le nord depuis la ligne de partage glaciaire du Keweenaw située au sud. La limite de l'intrusion marine aller que la glace se retire est environ 240–250 m ASL (Giangropi et al., 2003). Le vaste système de moraine Chantry traverse la région de l'est à l'ouest, marquant une ligne sillstand de la marge glaciaire en recul.

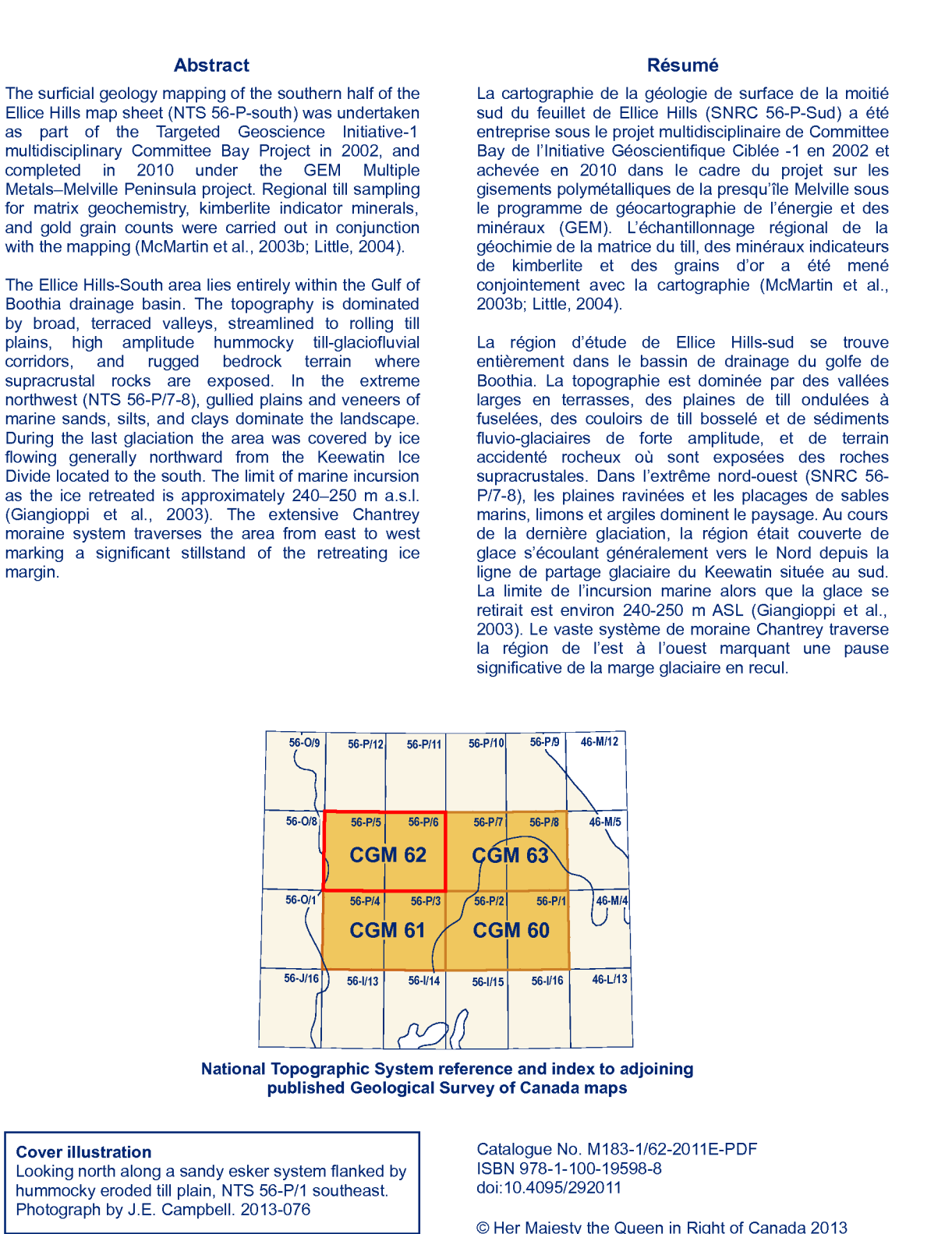


Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

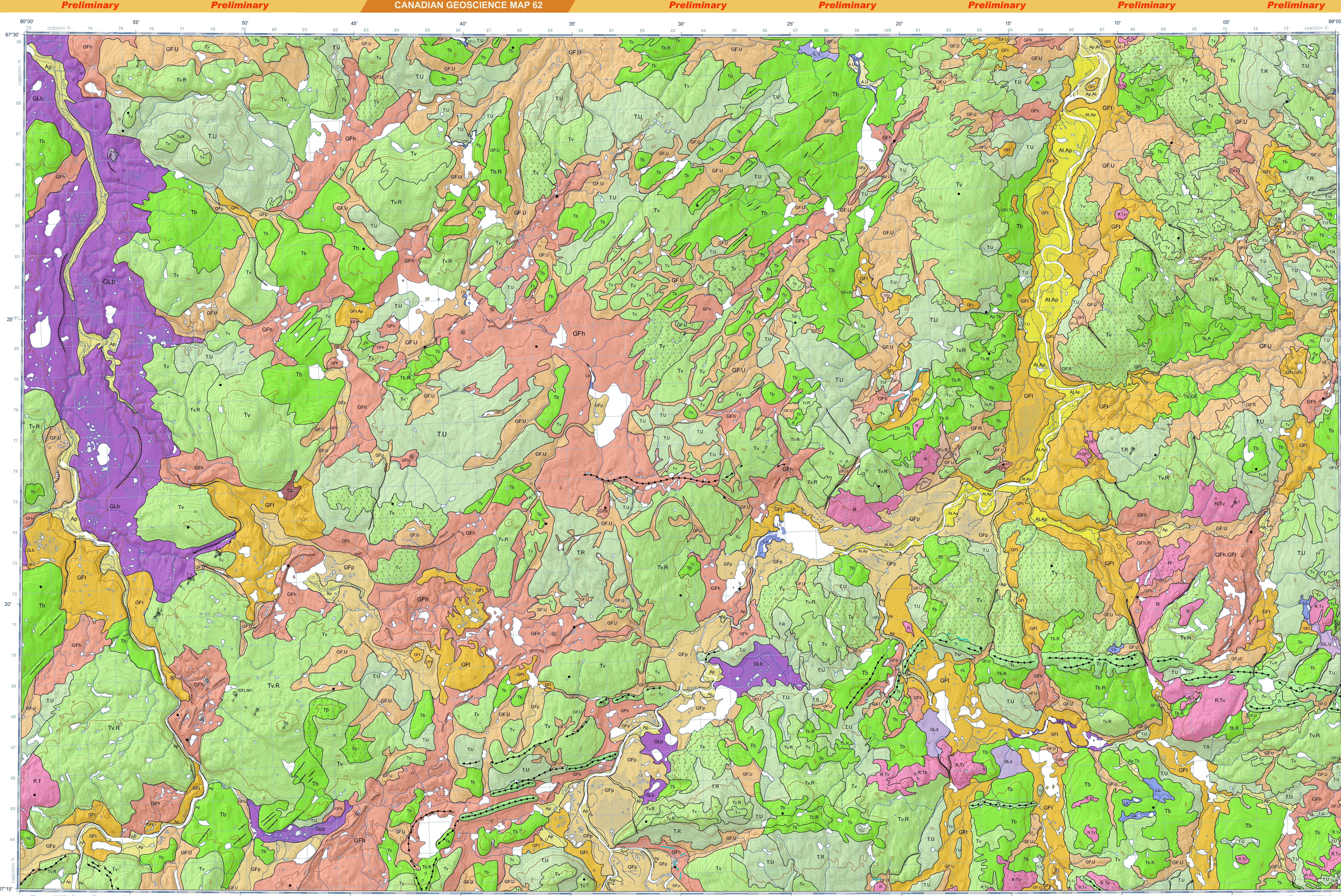


Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).

Figure 1. Regional ice flow and chronology. Generalised regional ice flow and chronology interpreted from ice-movement indicators recorded during field mapping in the TGI-1 Committee Bay study area from 2000 to 2002. Moraine features outside the study area and all streamlined landforms are from Aylsworth and Shills (1989) (after McMartin et al., 2003).