PROJECTS RELATED TO IRON ORE



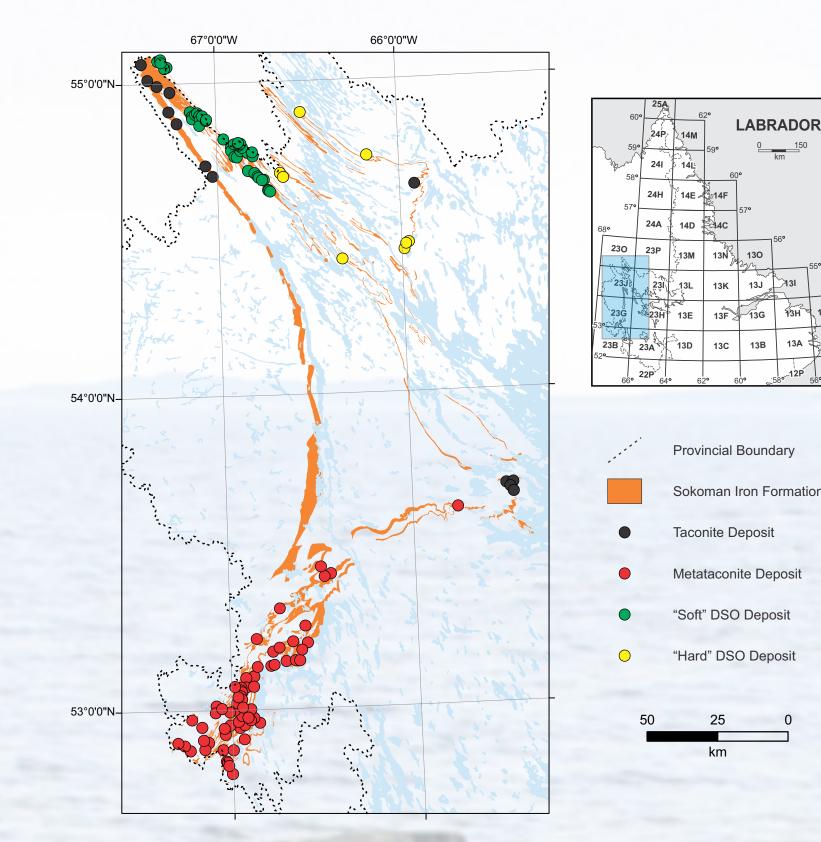
Natural Resources

James Conliffe

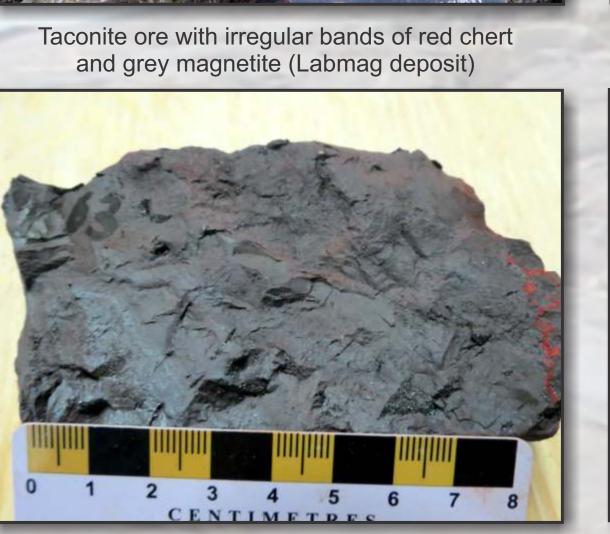
Research related to iron-ore deposits in western Labrador continued with a short field visit to the Menihek and Schefferville areas in August 2016. Fieldwork was carried out in conjunction with researchers from Curtin University, Western Australia, and included sampling of drillcore to better understand the diagenetic history of iron formations in western Labrador. A fieldtrip to western Labrador is being organized for August 2017, to be held in conjunction with a session entitled "Iron Ore – Deposit to Global Scale Processes" at the SGA 2017 meeting in Québec City.







Location of selected iron-ore deposits in the Labrador Trough



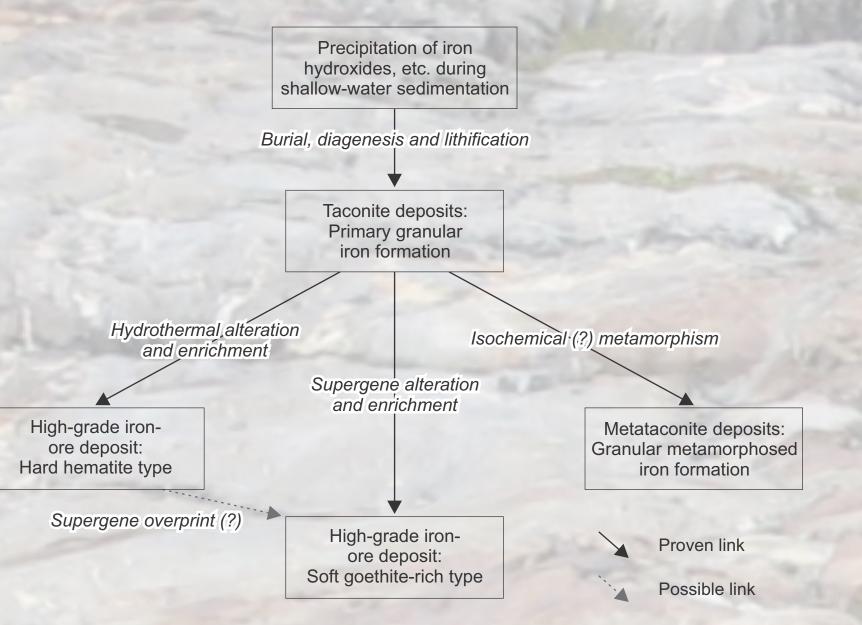
High-grade (> 65% Fe) hematite ore from "hard" DSO deposit (Joyce Lake deposit)

High-grade (67% Fe) blue ore from "soft" DSO deposit (Timmins deposit)



Metataconite ore with bands of coarse grained quartz and hematite (Julienne Lake deposit)

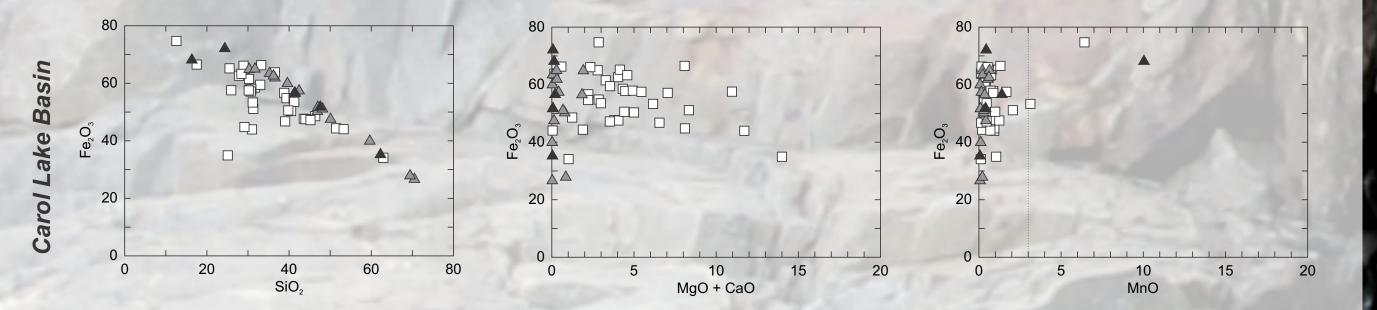
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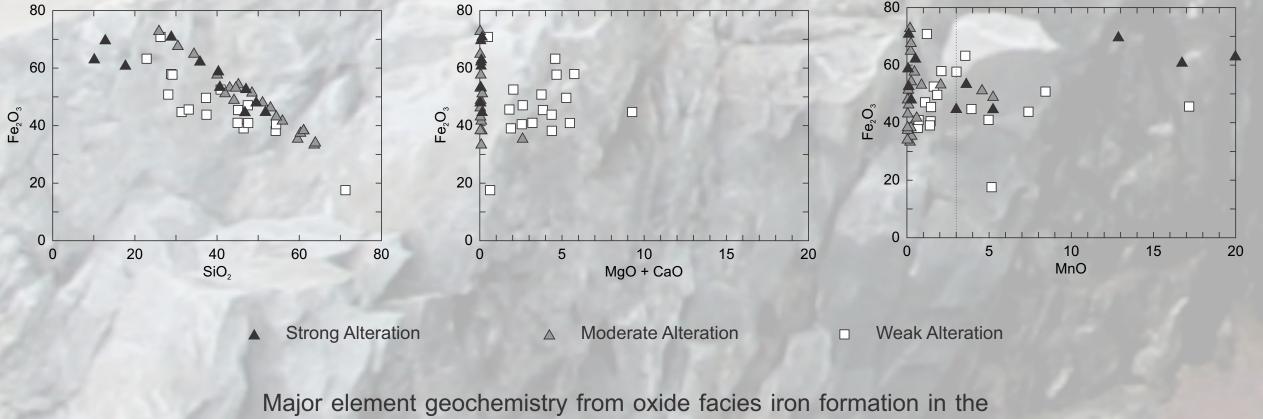
Subdivision of the iron-ore deposits in the Labrador Trough into known deposit types. Also included are the potential mechanisms associated with the formation of each deposit type.

Iron-ore deposits in the Labrador City/Wabush area

The Labrador City/Wabush area is host to numerous, large (> 200 Mt) metataconite ironore deposits, which are moderately to strongly metamorphosed and recrystallized, and are easily beneficiated into iron concentrates (~65% Fe), which are ideal for pellet production.



Fieldwork in 2012 and 2013 focused on outcrop sampling and logging of diamond-drill holes from these deposits. The results of this work are currently being compiled along with data from recent exploration programs, and will form the basis of a report on the iron-ore deposits of the southern Labrador Trough. This report will better correlate stratigraphy between iron-ore deposits in this structurally complex area, and will provide a basis for future exploration.



Labrador City/Wabush area, subdivided into samples from the west (Carol Lake Basin) and east (Wabush Basin) of the area