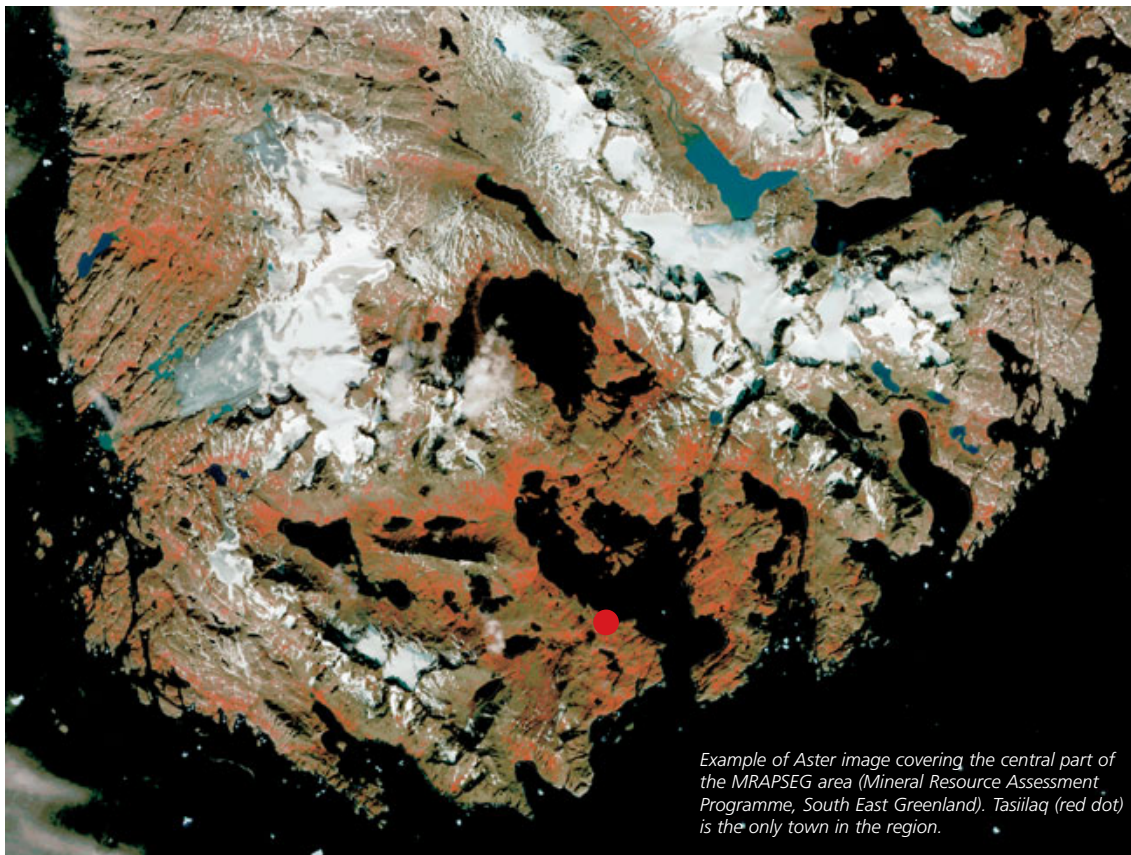


The unexplored mineral potential of South-East Greenland



Example of Aster image covering the central part of the MRAPSEG area (Mineral Resource Assessment Programme, South East Greenland). Tasiilaq (red dot) is the only town in the region.

BMP and GEUS have recently prepared the plans for a forthcoming mineral resource assessment programme in South-East Greenland, 62°–67° N (MRAPSEG). The engagement in this programme is a direct consequence of a recently adapted minerals strategy, where focus on new areas in Greenland is prioritised.

The following basis for the initiation of the programme has been compiled:

- A geological overview of the region
- An inventory of company activities until 2008
- A compilation of new topographical and geological base maps, scale 1: 500 000
- A satellite imagery study based on 43 Aster scenes
- A GIS model
- A preliminary outlook of the mineral resource potential
- A proposal for a geochemical and indicator mineral survey
- A proposal for a regional aeromagnetic survey
- Some initial proposal for geological reconnaissance field work

The MRAPSEG programme is expected to be initiated during 2009 with targeted remote sensing interpretation and a geochemical survey combined with geological reconnaissance. The target area will from the beginning be focused on the southern half of the region, followed in 2010 by similar work in the northern half of the area. Subject to financing becoming available, an aeromagnetic survey programme may be carried out in 2010 and 2011.

The areas in South-East Greenland targeted for the mineral resource programme encompass the Archaean block in South-East Greenland (62–64°30'N), the Proterozoic Ammassalikian mobile belt (64°30'–66°N) including part of the northern Archaean foreland, and around 66°N a suite of Palaeogene intrusions in the Kialineq region.

Current knowledge suggests that East Greenland between 62° and 67° N may hold potential for:

- Ni-Cu-PGE mineralisations
- Stratabound base metal and PGE mineralisation in Archaean as well as Proterozoic supracrustal successions
- Sulphide mineralisation in Proterozoic gabbro intrusions
- IOCG-deposits in relation to roof zones of norite intrusions and related anatexites

- Graphite in supracrustal successions north of Ammassalik Island
- The occurrence of Archaean carbonatite in the Sigertåt complex and carbonatisation of gneisses in the Tingmiarmiut area may indicate presence of carbonates in the deep lithospheric mantle and thus the theoretical possibility for kimberlites (diamonds) in the region

By the end of the five–six-year programme, subject to funding becoming available all years, BMP and GEUS hope to have examined these indications and revealed many more targets for the exploration industry to investigate.

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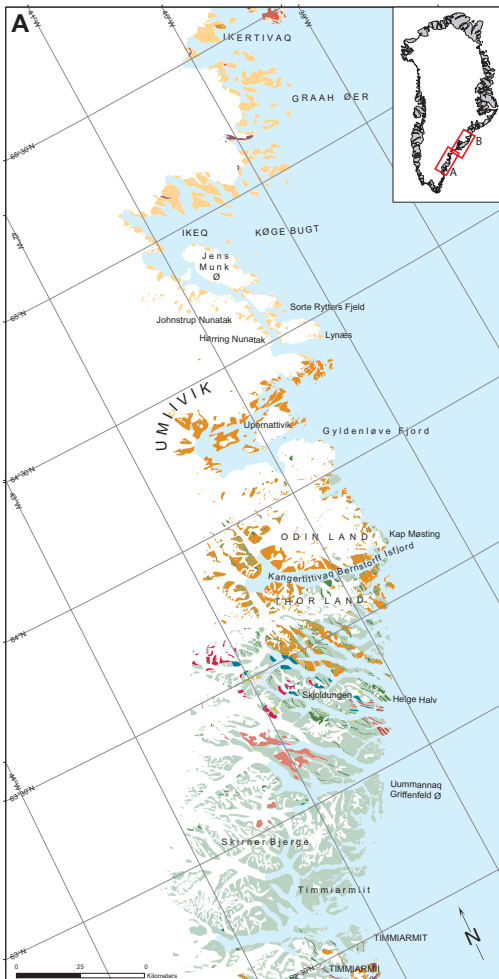
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Southern part



Outline of digital geological map.

Northern part



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