

QUICK GUIDE

To the Greenland Mineral Resources Portal search engine

Introduction

The interactive GIS-map of Greenland has been constructed as a facility allowing simultaneous search in many databases for relevant information within a geographical search rectangle defined by the user. The information and metadata corresponding to each theme/database are arranged in layers that can be switched on or off. The results of the search are so far usually metadata but may in the future encompass actual data. The user may look at the metadata on-screen and/or ask for downloads of zipped files. The results of the searches are ordered according to theme.

The background map can show simple topography (coast and ice) or simple geology (source: 1:10,000,000 geology, GEUS). More detailed information will become available when zooming to larger scales (source: 1:2,500,000 geology, GEUS). Later, another level of detail will be added (source: 1:500,000, geology GEUS), corresponding to the One Geology version of the entire Greenland. Legends to the geology are provided as pdf-files (link on edge of map).

A click on the Greenland Mineral Resources Portal heading will always bring the user back to the portal home page. Clicks on the two logos will bring the user to the GEUS and BMP web-sites.

Step-by-step

1. You access the interactive GIS-map from the Greenland Mineral Resources Portal by clicking on the orange button



GO TO INTERACTIVE GIS MAP

2. The screen will show the interactive GIS environment with a map of all Greenland and neighboring regions. You can use the three buttons at the upper left of the screen to select the region of Greenland, you wish to investigate. Note, the active button is marked in orange. Once you have done that, the latitude and longitude of the cursor can be read from the box on the upper right of the screen.

Zoom-in, zoom-out, i and pan have the usual meaning

Rectangle search has a special function, see below

Reference map (lower, left edge of map) toggles a small index map on/off

Legend gives access to a legend of the geology

3. The **Map Content box** in the upper right corner can be opened and closed. When open it allows you to choose which themes to be included in the coming search. Choose one or more themes. Choose topography or geology for the background map.

Any number of the themes can be switched on

If a theme is on, a legend will be shown of the symbols used (where applicable)

Update will generate a new map with the information from included themes shown. Note, ticking reports will make no difference for the appearance of the map, but the database (DODEX) will be included in the search. When the updated map is finished, the Map Content theme legends will collapse, but you can bring them back by clicking on the theme name.

Reset will bring you back to the starting map.

4. Having chosen the themes, you can next set the search area by first using (click on) the **search rectangle** button and then using the cursor to define a rectangle covering the search area you require on the map. The portal will give you a brief reminder of which themes are switched on and how large an area the search covers. Press OK (the search starts immediately) or make changes in the search parameters.
5. The search will perform a query in the databases that are associated with the selected themes and find all entries having a geographical position within the search rectangle. The result of the search will be displayed on-screen in a report. A summary will show a map of the region you zoomed to as well as the search rectangle and the number of hits for each chosen theme. Results for each theme can be found on separate tabs and can be interrogated on-screen, each giving access to summary information, and some with links to pdf-files containing more comprehensive descriptions.
6. Low on the web-page are two buttons to allow the user to navigate the platform

Back to Map Search to return to the search; the previous search rectangle will still be there as a starting point for modifications.

Download Zip-file to download a zip files containing a pdf-file with a summary of the search results that are selected on the result page. The file will contain hyperlinks for relevant items, allowing subsequent download of e.g. company reports or pdf-summary sheets for mineral occurrences or intrusions. If Ujarassiorit samples are also included in the search, an Excel spreadsheet with sample information and geochemical analyses will also be included in the zip-file.

Thematic data layers

A number of thematic (meta-)data are available from the interactive map. These are as follows:

- **Mineral Occurrences:** Positions of all occurrences in the GMOM database are available through the map. Detailed descriptions of each occurrence are available as pdf-files which can be accessed either by clicking a single occurrence on the map or by the search and download facility.
- **Intrusions:** The center positions of important intrusive bodies can be shown on the map. Detailed descriptions of each intrusion are available as pdf-files which can be accessed either by clicking a single intrusion on the map or by the search and download facility.
- **Geophysical Surveys:** Available geophysical survey blocks can be shown on the map. If geophysical surveys are included in a search, a list of all survey blocks within the search rectangle will be shown on the result page. Only some metadata are available online. The data can be ordered by contacting GEUS.
- **Geochemistry:** At present only stream sediment geochemistry is included in the data portal. The position of all samples from the database having associated geochemical analyses will be shown on the map if geochemistry is a selected theme. When searching inside a rectangle, a list of samples with information about analyzed compounds is shown. Analysis data can be ordered from GEUS.
- **Ujarassiorit Mineral Hunt:** Samples from the Greenland mineral hunt dating back to 1989 can be viewed on the map. By default all Ujarassiorit samples within a search rectangle will be included when searching, but it is also possible to filter by chemical compounds. When clicking the Ujarassiorit heading in the map content field, two boxes are unfolded in which the user can specify to only include samples having more than e.g. 3 ppm Gold. This will not affect the number of sample dots on the map, but will have effect on the result of a subsequent rectangle search. Please note, that when choosing "Download Zip-file" after performing a search in which Ujarassiorit samples are included, an Excel spreadsheet with sample information and geochemical analyses of all selected samples will be included in the zip-file.
- **Include reports in search:** Select this item to include released reports from the DODEX database in a rectangle search. Please note, that no georeferences are presented on the map for this theme.

The databases

The databases behind the portal are the familiar databases already known by some users of DODEX and GMOM. GEUS has decided to maintain the old interfaces to these databases for some time to come, because these interfaces allow the search in one database using more complex set-up of search

parameters. In the portal interface to the same databases, you can at present only use geographical position as a search parameter. The database containing e.g. metadata on the geophysical surveys, is new, and has an architecture that allow other types of metadata to be stored in the database in the future. The database containing analyses of samples is an old database, which has been used for many years internally in GEUS; now the first steps in the opening of this database for the public have been taken.

Visions

For funding reasons the further developments to the portal will be limited in 2012 and then taken up again in 2013. There are many ideas and visions for what will be added to the portal. New themes are already being considered, such as GEUS field maps and published maps, photographs of important sites, photo flight lines, mineral licenses, and of course all the other types of data being used in the mineral exploration of Greenland. Finally, thoughts are being given to the possibility of giving direct access to real data, downloadable for free or at cost, as the case may be.