Danish Meteorological Institute

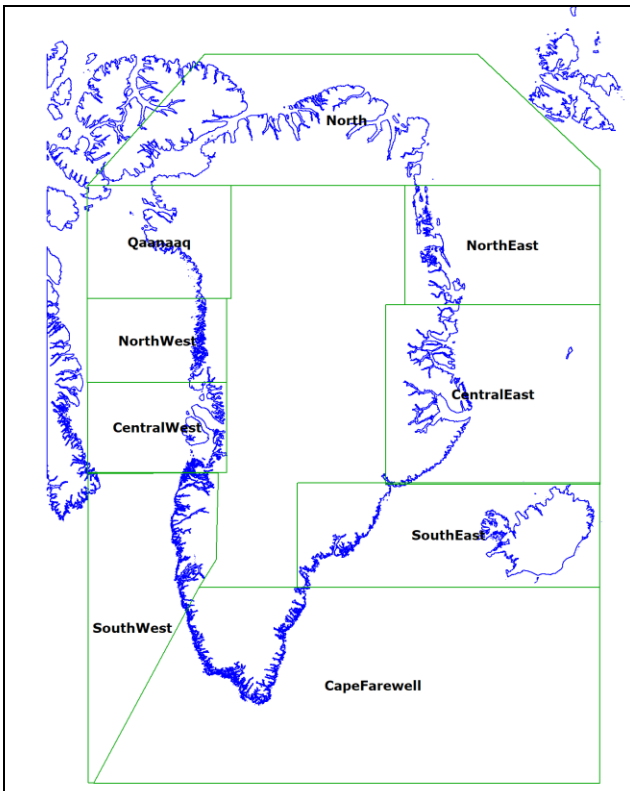
Additional information related to data on https://download.dmi.dk/public/ICESERVICE/

Folder ICEBERGS: Sentinel 1 based target products as Greenland composites of latest data (point shape files. Targets at open sea (West of 28W) identified as vessels removed. This is the basic data product for the ice analyst to determine the iceberg limit (line shape file, boundary between bergy waters and ice-free waters). By definition all Greenland coastal waters are bergy waters. The iceberg limit is updated twice weekly and set from icebergs furthest from shore plus 40-60 Nautical Miles (safety zones to compensate for iceberg drift and gaps in satellite coverage.

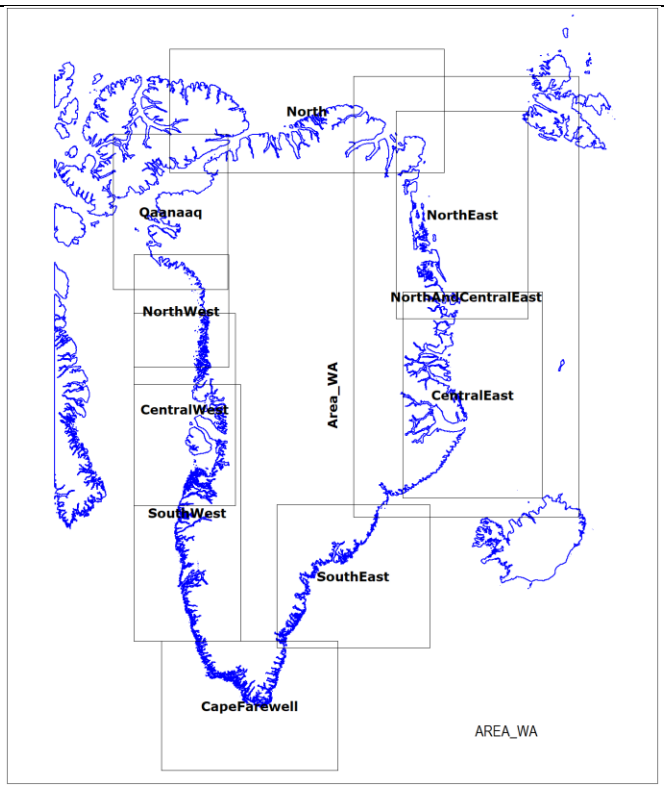
Folder SIGRID3: Sea ice regional ice analyses follow the vector archive standard described in WMO Publication 1214. Latest version of the standard described in the documents in the current folder. The routine ice mapping procedures have changed over time in terms of coverage, level of details, update frequency. From October 2017 partials for sea ice stage of development (thickness) were added to the DMI practices and included in the regional SIGRID3 files and sea ice maps to fulfill Polar Code requirements and POLARIS calculations.

A major mapping practice change was implemented in 2021 to streamline the daily production. The general ice analysis for Greenland ("Area WA") was phased out since it is technically straightforward to merge two or more regional ice analyses into one composite analysis for a larger region. All regional ice analyses and general ice analysis up to 2020 are available. From 2021 only regional ice analyses are available.

The maps below shows the approximate coverage of the standard regions used for routine sea ice mapping:



Standard regions for 2021 and later



Standard regions for 2020 and earlier