Title: Dronning Maud Land ice shelf front position from August 2012 to December 2013

Summary: This data set provides Dronning Maud Land ice shelf front position in August 2012, February 2013, March 2013, August 2013, October 2013 and December 2013. The area extent goes from 5 W to 34 E. RADARSAT 2 images (which kind?!) has been assembled in a mosaic for each date. The front position has been digitized by human operator using QGIS digitizing features.
Data are provided in line shapefile format, ready to open with GIS software. The attribute for each line provide the date at which the digitized image was acquired (attributes “year”,”month”,”day”) and the quality of the line (attribute “quality”). If the quality is 1, the front position is confidently known for this portion. If the quality is 0, the front position is poorly known for this portion. Only the portion with a quality of 1 should be considered as relevant.

Data quality: 200 km of ice shelf front has been digitized several time by the same operator on images taken only a few days apart. The front displacement observed is then mostly due to the image processing and the human interpretation of the image. It results that the uncertainty on the annual displacement of the ice shelf front is around 150 m.yr-1.