The primary role of the Geological Survey of Denmark and Greenland is to interpret and record the geology of Denmark, Greenland and the Faeroe Islands and make the information available to government, industry, the international scientific community and the general public. The technological advances of recent years have increased emphasis on digital data and electronic databases leading to a geoscientific information revolution. However, printed reports and maps still remain a significant part of the Survey’s publication range designed to provide information for use at all levels. Several of these publications are also available as electronic issues.

Five years ago a ministerial reorganisation led to the setting up of the Geological Survey of Denmark and Greenland (GEUS, established 1995) by the fusion of the Geological Survey of Denmark (DGU, established 1898) and the Geological Survey of Greenland (GGU, established 1946). This necessitated a critical assessment of the publications issued by the two former Surveys and led to substantial reorganisation: in short, some series continued, others were renamed or phased out and new series were launched. The consequences for Survey publications in general, and for Greenland publications in particular, were outlined in the first Review of Greenland activities released by the new Survey in 1997, viz. Greenland, Denmark and the Faeroe Islands, and the national geological Survey (GEUS): 1996, a year of transition for publications (Geology of Greenland Survey Bulletin 176, 9–16).

Information on Survey publications can be found on the GEUS homepage (www.geus.dk). For details of all Survey publications on Greenland, see Catalogue of Greenland publications and data (Fig. 1).

Scope of this review
This review lists the publications about Greenland released by the Survey in 1999, as well as the scientific and semi-popular articles by staff and coworkers published in external outlets. Facsimiles of some covers from 1999 are shown in Fig. 2. Geoscientific abstracts, of which 80 were published during the year, are not listed but are available in the annual publication catalogue that is on the GEUS homepage. The Survey’s range of scientific publications on Greenland is summarised in Table 1, and the present coverage by standard geological maps at scales 1:500 000 and 1:100 000, as well as geophysical and Quaternary geological maps is given in Fig. 3.

Catalogue of Greenland publications and data
The catalogue, available free of charge (see under Availability of Survey publications below), contains a complete list of the geoscientific publications on Greenland issued by the former and present Surveys going back to the first bulletin released by GGU in 1948. Information on 'how to order' with prices and payment details are included. The catalogue also reviews available maps and graphic services (in addition to the geological and geophysical map coverage shown in Fig. 3), for example geochemical, topographic, bathymetric and satellite maps at varying scales. A directory specifying the range of data and services available at the Survey is also included: a range that includes various data bases; map, sample and drill-core archives; bibliographic and library facilities include unpublished maps and reports from the Survey’s own activities and those of industry.

The catalogue contains an index to selected topics such as Glaciology and hydropower, Kimberlites/diatremes, Mineralisation, Offshore geophysics, Onshore geophysics, Palaeontology and stratigraphy, Prospecting, Quaternary and permafrost, Sedimentary and petroleum geology, as well as an author/project index.

Availability of Survey publications
Survey publications can be obtained by contacting the Survey’s headquarters in Copenhagen or the Survey’s book agent, Geografforlaget ApS, at the addresses given on page 2 of this volume. Of the publications listed here the newsletters to the international mining and oil industries, viz. Greenland MINEX News and Ghexis Newsletter, respectively, as well as the Catalogue of Greenland

Fig. 2. Selected Survey publications on Greenland from the year 1999: for details see listing in the text and Table 1. A–C: Geology of Greenland Survey Bulletin 182–184; D: Danmarks og Grønlands Geologiske Undersøgelse Rapport 1999/19; E: Greenland MINEX News No. 17, June 1999; F: Ghexis Newsletter No. 15, April 1999.
publications and data described above, can be sent free of charge. All Survey publications can be viewed at our headquarters in Copenhagen, Denmark; publications on Greenland are also available at the Bureau of Minerals and Petroleum in Nuuk, Greenland. For general information, the Survey’s homepage (www.geus.dk) should be consulted. The annual Review of Greenland activities (this volume) is available on the net, as are the abstracts of all volumes in the scientific series (see Table 1).
Geology of Greenland Survey Bulletin

Bulletin 183 is not externally refereed. Bulletins 182, 183 and 184 are illustrated in Fig. 2.


184: Collected research papers: palaeontology, geochronology, geochemistry, 62 pp. (6 articles, see titles below).

Bulletin 181: Precambrian geology of the Disko Bugt region, West Greenland

The region north-east of Disko Bugt contains Archaean greenstone belts which were investigated by industry for mineral deposits in the 1970s and 1980s. In the period 1988–1992 the former Geological Survey of Greenland carried out more detailed field work in order to obtain a better geological understanding of the region.

This bulletin contains 14 articles based on these field investigations and laboratory research. An introductory paper gives a geological overview and a description of the accompanying geological map at 1:250 000. The following articles describe some of the rocks in more detail and treat economic, structural and chronological topics with the aim of presenting an up-to-date account of the Precambrian geology of the region.

Bulletin 182: Vertebrate remains from Upper Silurian – Lower Devonian beds of Hall Land, North Greenland

The microscopic remains of Palaeozoic vertebrates, such as teeth, scales and fragments of jaws, spines and bones, have been shown to be a good complement to the less abundant articulated fossil vertebrates. These ‘microvertebrates’ increase the knowledge of early vertebrate evolution and are also very useful for dating geological strata.

This bulletin gives an extended description of microscopic remains of jawless and jawed fish from the Upper Silurian and Lower Devonian of Hall Land, western North Greenland. The biostratigraphic utility of these remains provides data for discussion of the regional stratigraphy and global correlation.


Conclusion of the 1:500 000 mapping project in the Caledonian fold belt in North-East Greenland. By N. Henriksen, 10–22.

New insights on the north-eastern part of the Ketilidian orogen in South-East Greenland. By A.A. Garde, J. Grocott & K.J.W. McCaffrey, 23–33.


Observations on the Quaternary geology around Nioghalvfjerdsfjorden, eastern North Greenland. By O. Bennike & A. Weidick, 57–60.


Bulletin 184: Collected research papers: palaeontology, geochronology, geochemistry

The myodocope ostracode Entomozoe from an early Silurian (Telychian, Llandovery) carbonate mound of the Samuelsen Høj Formation, North Greenland. By D.J. Siveter & P.D. Lane, 5–12.


Variability of XRF and AAS analyses from the Rock Geochemical Laboratory of the Geological Survey of Denmark and Greenland. By A. Steenfelt, 49–57.


Danmarks og Grønlands Geologiske Undersøgelse Rapport

This series comprises unedited reports in limited numbers. Only those numbers dealing with Greenland geological topics are included. Rapport 1999/19 is illustrated in Fig. 2.


1999/37: See under Thematic maps on CD-ROM, p. 103.


Greenland MINEX News

Page 1 of issue No. 17 is illustrated in Fig. 2.

Leading article: NunaMinerals A/S: a new Greenland minerals company. Established by the reorganisation of Nunaoil A/S.


Ghexis Newsletter

Page 1 of issue No. 15 is illustrated in Fig. 2.

Issue No. 15, April 1999, 4 pp.
Leading article: Licensing round off West Greenland 2001. Open door procedure re-established.

Leading article: Doors open for West Greenland exploration.
Geology
1:500 000
Published sheets
Published with descriptive text

Quaternary geology
1:1000 000
1:500 000
Published sheets
Published with descriptive text

Airborne geophysics
1–5: Magnetic anomaly map sheets
1:500 000 (1)
1:1000 000 (2–5)
Maps

The national geological map sheet coverage is shown in Fig. 3, together with those regions covered by geophysical maps.

Airborne geophysical maps

Nuuk–Maniitsoq region, southern West Greenland (Aeromag 1998)

Maps of magnetic field intensity and associated vertical derivative, flight path and digital elevation model derived from radar measurements. Maps in scale 1:50 000 and 1:250 000. Aeromagnetic survey flown by Sander Geophysics Ltd., Ottawa, Canada.

Disko Bugt region, central West Greenland (Aeromag 1998)

Maps of magnetic field intensity and associated vertical derivative and flight path. Maps in scale 1:50 000. Aeromagnetic survey flown by Sander Geophysics Ltd., Ottawa, Canada.


Maps of electromagnetic anomalies, conductance, magnetic field intensity and associated vertical derivative, flight path and digital elevation model derived from radar measurements. Maps in scale 1:50 000 and 1:250 000. Maps in scale 1:20 000 for part of the Washington Land – Daugaard-Jensen Land area. Combined electromagnetic (GEOTEM) and magnetic survey flown by Geoterrex-Dighem Ltd., Ottawa, Canada.

Thematic maps on CD-ROM


Semi-popular articles

Contains titles from both the Survey’s own series and external outlets.


Scientific articles in external publications

The list contains two types of article: (1) from peer review international journals and (2) from proceedings volumes. Articles written by non-survey staff, where the basic work was initiated under the Survey’s auspices, are also included, as well as those by staff attached to the Danish Lithosphere Centre, Copenhagen.

Appel, P.W.U., Bigi, S. & Brigatti, M.F. 1999: Crystal structure and chemistry of yuanfuliite and its relation-
Kalsbeek, F. & Manatschal, G. 1999: Geochemistry and tectonic significance of peridotitic and metakomati-tic rocks from the Ussuit area, Nagsuqtoqidian orogen, West Greenland. Precambrian Research 94(1/2), 101–120.


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