

Publications on Greenland by the Survey, 1997

Maps

Standard map sheets

Geological map of Greenland, 1:500 000, Dove Bugt, sheet 10. *Compiled by* N. Henriksen, 1997.

Geology of Greenland Survey Bulletin

Bulletins 173, 174, 177, 178 externally refereed

- 173** Cambrian shelf stratigraphy of North Greenland. *By* J.R. Ineson & J.S. Peel, 120 pp.
- 174** The Proterozoic Thule Supergroup, Greenland and Canada: history, lithostratigraphy and development. *By* P.R. Dawes, 150 pp.
- 176** Review of Greenland activities 1996. *Edited by* A.K. Higgins & J.R. Ineson, 112 pp.
- 177** Accretion and evolution of an Archaean high-grade grey gneiss – amphibolite complex: the Fiskefjord area, southern West Greenland. *By* A.A. Garde, 114 pp.
- 178** Lithostratigraphy, sedimentary evolution and sequence stratigraphy of the Upper Proterozoic Lyell Land Group (Eleonore Bay Supergroup) of East and North-East Greenland. *By* H. Tirsgaard & M. Sønderholm, 60 pp.

Bulletin 176: Review of Greenland activities 1996

Review of Greenland activities, 1996. *By* M. Ghisler, 6–8. Greenland, Denmark and the Faeroe Islands, and the national geological survey (GEUS): 1996, a year of transition for publications. *By* P.R. Dawes, 9–16.

Petroleum geological activities onshore West Greenland in 1996, and drilling of a deep exploration well. *By* F.G. Christiansen, A. Boesen, F. Dalhoff, A.K. Pedersen, G.K. Pedersen, P. Riisager & K. Zinck-Jørgensen, 17–23.

Palaeo-oil field in a Silurian carbonate buildup, Wulff Land, North Greenland: project 'Resources of the sedimentary basins of North and East Greenland'. *By* L. Stemmerik, M. Sønderholm & J.A. Bojesen-Koefoed, 24–28.

Petroleum geological investigations in East Greenland: project 'Resources of the sedimentary basins of North and East Greenland'. *By* L. Stemmerik, O.R. Clausen, J. Korstgård, M. Larsen, S. Piasecki, L. Seidler, F. Surlyk & J. Therkelsen, 29–38.

The role of bacteria in degradation of exposed massive sulphides at Citronen Fjord, North Greenland: project 'Resources of the sedimentary basins of North and East Greenland'. *By* B.R. Langdahl & B. Elberling, 39–43

Ore geological studies of the Citronen Fjord zinc deposit, North Greenland: project 'Resources of the sedimentary basins of North and East Greenland'. *By* K. Kragh, S.M. Jensen & H. Fougat, 44–49.

Seismic investigation of the East Greenland volcanic rifted margin. *By* T. Dahl-Jensen, W.S. Holbrook, J.R. Hopper, P.B. Kelemen, H.C. Larsen, R. Detrick, S. Bernstein & G. Kent, 50–54.

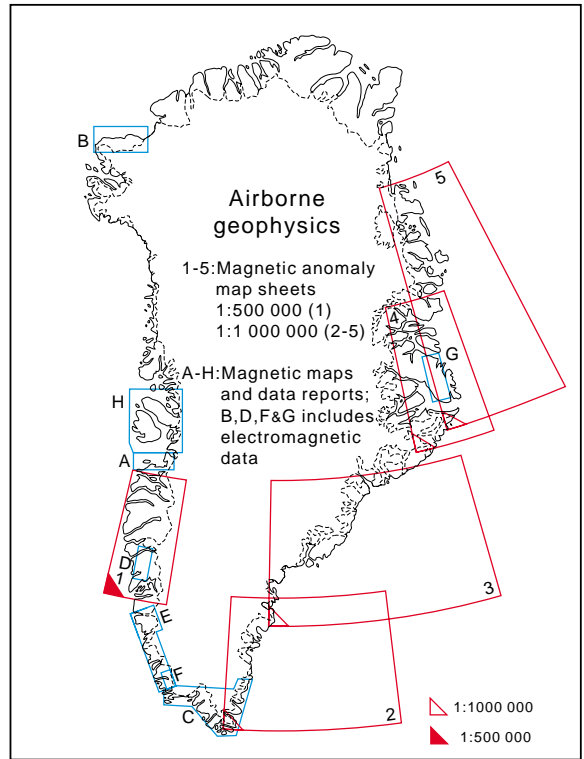
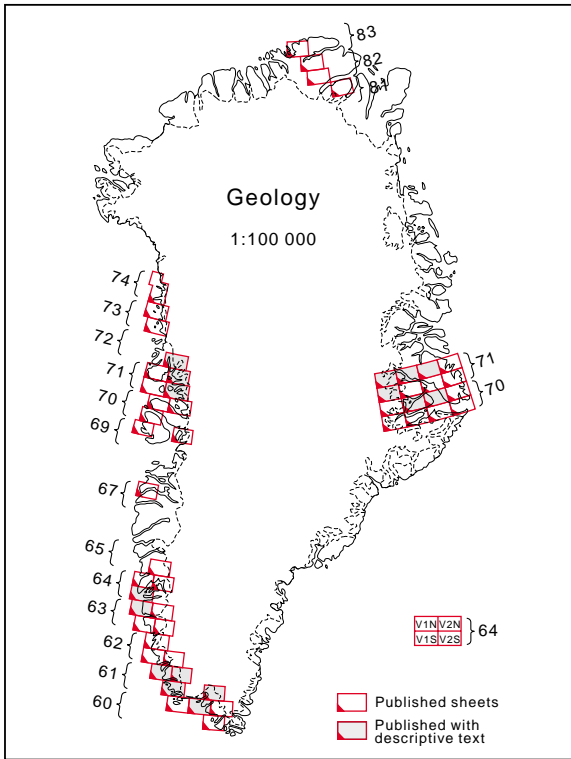
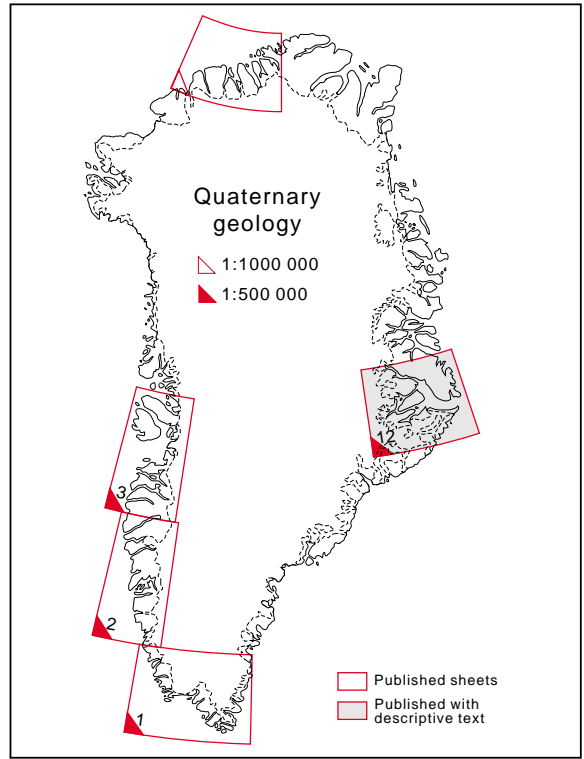
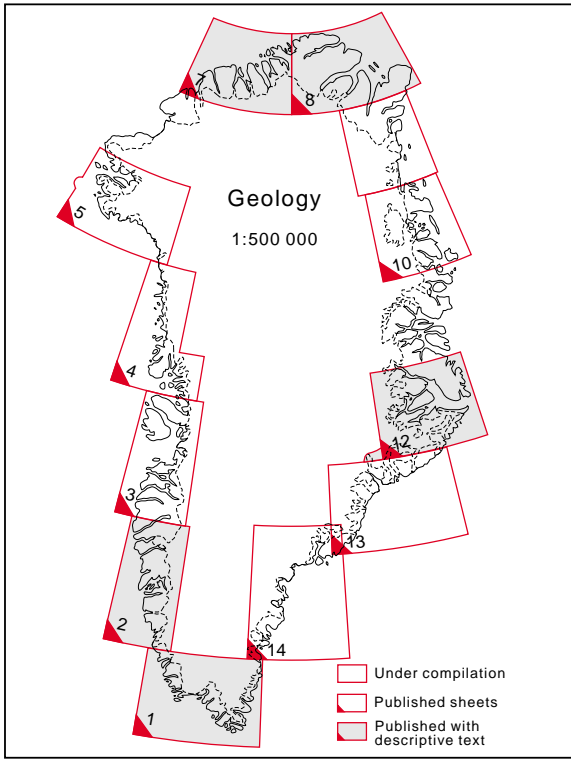
Age determination of Precambrian rocks from Greenland: past and present. *By* F. Kalsbeek, 55–59.

Metasedimentary rocks, intrusions and deformation history in the south-east part of the c. 1800 Ma Ketilidian orogen, South Greenland: Project SUPRASYD 1996. *By* A.A. Garde, B. Chadwick, J. Grocott & C. Swager, 60–65.

Mafic igneous rocks and mineralisation in the Palaeoproterozoic Ketilidian orogen, South-East Greenland: project SUPRASYD 1996. *By* H. Stendal, W. Mueller, N. Birkedal, E.I. Hansen & C. Østergaard, 66–74.

Airborne geophysical surveys in Greenland – 1996 update. *By* R.W. Stemp, 75–79.

Macrofossil studies of Holocene lake sediments from Jameson Land, East Greenland. *By* O. Bennike & S. Funder, 80–83.



Map sheets published and in preparation by the Survey (red frames). The blue frames A-H are areas covered by recent airborne geophysical surveys (1992-1997).

- Pleistocene sedimentary record of the Falsterselv area, Jameson Land, East Greenland. *By* L.A. Hansen, J.B. Jensen & M. Terkelsen, 84–88.
- Holocene lake sediments in West Greenland and their palaeoclimatic and palaeoecological implications. *By* N.J. Anderson & O. Bennike, 89–94.
- The Nioghalvfjærdsfjorden glacier project, North-East Greenland: a study of ice sheet response to climatic change. *By* H.H. Thomsen, N. Reeh, O.B. Olesen, C.E. Bøggild, W. Starzer, A. Weidick & A.K. Higgins, 95–103.
- An 'open system pingo' near Kangerlussuaq (Søndre Strømfjord), West Greenland. *By* H. Scholz & M. Baumann, 104–108.
- Publications on Greenland by the Survey, 1996, 109–112.

Open file type reports

Danmarks og Grønlands Geologiske Undersøgelse Rapport

Unedited reports. Only those numbers written in English that deal with Greenland geological topics are included.

- 1997/11** Projects Aeromag 1995 and Aeromag 1996. Results from aeromagnetic surveys over South Greenland (1995) and South-West and southern West Greenland (1996). *By* L. Thorning & R.W. Stemp, 44 pp.
- 1997/12** Helicopter-borne geophysical surveys in the Grønnedal region, South-West Greenland. Results from Project AEM Greenland 1996. *By* R.W. Stemp, 76 pp.
- 1997/32** Palynology of the Umiivik-1 borehole, Svartehuk Halvø, West Greenland. *By* H. Nøhr-Hansen, 16 pp.
- 1997/33** Organic geochemistry of sediments and gases in the borehole Umiivik-1, Svartehuk Halvø, West Greenland. *By* F.G. Christiansen, J. Bojesen-Koefoed & T. Laier, 16 pp.
- 1997/34** Seep data from onshore West Greenland. *By* J. Bojesen-Koefoed, F.G. Christiansen, H.P. Nytoft & A.K. Pedersen, 7 pp.
- 1997/36** Stratigraphy, sedimentology and geochemistry of cores and other samples from the GANW#1 well, Nuussuaq, West Greenland. Report prepared for grønArctic energy inc., Calgary, Alberta, Canada, February 1995. *By* F.G. Christiansen, G. Dam, L.M. Larsen, H. Nøhr-Hansen, A.K. Pedersen, J. Boserup, J. Bojesen-Koefoed, T. Laier & T.C.R. Pulvertaft, 52 pp. [Confidentiality expired 1 April 1997]
- 1997/37** Well summary GANT#1 grønArctic Nuussuaq Tunorssuaq, West Greenland. Report prepared for grønArctic energy inc., Calgary, Alberta, Canada, November 1995. *By* K. Dahl, K.J. Bate & G. Dam, 26 pp. [Confidentiality expired 1 April 1997]
- 1997/38** Well summary GANK#1 and GANK#1A grønArctic Nuussuaq Kuussuaq, West Greenland. Report prepared for grønArctic energy inc., Calgary, Alberta, Canada, November 1995. *By* K. Dahl, K.J. Bate & G. Dam, 22 pp. [Confidentiality expired 1 April 1997]
- 1997/39** Well summary GANE#1 and GANE#1A grønArctic Nuussuaq Eqaqululik, West Greenland. Report prepared for grønArctic energy inc., Calgary, Alberta, Canada, December 1995. *By* K.J. Bate, 25 pp. [Confidentiality expired 1 April 1997]
- 1997/48** Oil geology and thermal history of eastern North Greenland. Energy research programme EFP-94 project 1313/94-0006. *By* L. Stemmerik, F. Dalhoff, J.M. Lyck & A. Mathiesen, vol. 1, 17 pp. + app. 1–7, vol. 2., app. 8–12.
- 1997/49** Basin modelling of the Wandel Sea basin, eastern North Greenland. *By* A. Mathiesen, F. Dalhoff & L. Stemmerik, 31 pp.
- 1997/53** The Kangerluluk gold prospect. Shear zone hosted gold mineralization in the Kangerluluk area, South-East Greenland, *By* H. Stendal, 18 pp.
- 1997/62** History of petroleum exploration and summary of potential petroleum basins in Greenland. *By* T.C.R. Pulvertaft, 19 pp.
- 1997/76** Interpretation of the basal section of well Kangâmiut-1, offshore southern West Greenland. *By* K.J. Bate, 24 pp.
- 1997/77** Cretaceous and Paleocene depositional environments and stratigraphy of the Nuussuaq Basin, West Greenland. Field trip guide prepared for Licence 03/97, Fylla, Greenland partners. *By* G. Dam, 11 pp.
- 1997/84** Conventional core analysis on GANK#1 cores. Eqaqululik, Nuussuaq, West Greenland. *By* G. Andersen & M.K. Jensen, 21 pp.
- 1997/88** Ujarassiorit 1996. Public minerals hunt programme in Greenland. *By* P. Erfurt & T. Tukiainen, 15 pp.
- 1997/89** Palynology of the boreholes GANE#1, GANK#1 and GANT#1 Nuussuaq, West Greenland. *By* H. Nøhr-Hansen, 22 pp.
- 1997/120** The volcanic succession in the West Greenland drill holes GANE-1 and GANK-1, with notes on trapped hydrocarbons. *By* L.M. Larsen & A.K. Pedersen, 11 pp.

- 1997/124** Investigation of the ore potential in black shales of the Upper Permian Ravnefjeld Formation in Scoresby Land and on Traill Ø, central East Greenland. Fieldwork in August 1996. *By* M. Pedersen, 17 pp.
- 1997/136** Sedimentology of the Umiivik-1 core, Svartenhuk Halvø, West Greenland. *By* G. Dam, 15 pp.
- 1997/141** Ground check of airborne geophysical anomalies and regional rust zones in Inglefield Land, North-West Greenland. *By* B. Thomassen & P.W.U. Appel, 43 pp.
- 1997/142** Processing of one bulk kimberlite sample and two stream sediment samples from the Maniitsoq area, West Greenland. *By* G.I. Smirnov, A.I. Chashka, O.N. Tarasyuk, L.N. Fisunova, A.P. Bobrievich, U.I. Fedorishin & P.W.U. Appel, 7 pp.
- 1997/143** Organic geochemistry and thermal maturity of sediments in the GRO#3 well, Nuussuaq, West Greenland. *By* J. Bojesen-Koefoed, F.G. Christiansen, H.P. Nytoft & F. Dalhoff, 18 pp. [Confidentiality expired 4 May 1998]
- 1997/151** Palynology of the GRO#3 well, Nuussuaq, West Greenland. *By* H. Nøhr-Hansen, 19 pp. [Confidentiality expired 4 May 1998]
- 1997/156** Lithological and petrophysical evaluation of the GRO#3 well, Nuussuaq, West Greenland. *By* L. Kristensen & G. Dam, 30 pp. [Confidentiality expired 4 May 1998]

Newsletters to industry

Greenland MINEX News

Issue No.11, January 1997, 11 pp.

Leading article: 1996: a record for exploration; high hopes for Greenland diamonds.

Issue No.12, July 1997, 9 pp.

Leading article: Exciting gold prospect in South-East Greenland.

Issue No.13, November 1997, 5 pp.

Leading article: Greenland: part of the global diamond chase.

GHEXIS

Issue No.11, April 1997, 8 pp.

Leading article: Offshore West Greenland: the Fylla area.

Issue No.12, October 1997, 8 pp.

Leading article: Widespread oil seeps in many areas of West Greenland.

Survey catalogues

Catalogue of Greenland publications and data. *Edited by* E.W. Glendal & P.R. Dawes, 51 pp. Copenhagen: Geological Survey of Denmark and Greenland (October 1997).

Publications in English of the Geological Survey of Denmark and Greenland: the scientific series and other issues. *By* P.R. Dawes & E.W. Glendal. Danmarks og Grønlands Geologiske Undersøgelse Rapport **1997/116**, 39 pp.

Scientific articles in external publications

Articles written by non-survey staff, where the basic work was initiated under the Survey's auspices, are also included.

Abrahamsen, N., Bengaard, H.-J., Friderichsen, J.D. & Van der Voo, R. 1997: Palaeomagnetism of three dyke swarms in Nansen Land, north Greenland (83°N). *Geologie en Mijnbouw* **76**, 83–95.

Appel, P.W.U. 1997: Al-rich warwickite from Inglefield Land, North-West Greenland. *Mineralogical Magazine* **61**, 693–698.

Appel, P.W.U. 1997: High bromine contents and low Cl/Br ratios in hydrothermally altered Archaean komatiitic rocks, West Greenland. *Precambrian Research* **82**, 177–189.

Bennike, O. 1997: Quaternary vertebrates from Greenland: a review. *Quaternary Science Reviews* **16**, 899–909.

Bojesen-Koefoed, J.A., Petersen, H.I., Surlyk, F. & Vosgerau, H. 1997: Organic petrography and geochemistry of inertinite-rich mudstones, Jakobsstigen Formation, Upper Jurassic, northeast Greenland: indications of forest fires and variations in relative sea-level. *International Journal of Coal Geology* **34**, 345–370.

Campbell, L.S., Henderson, P., Wall, F. & Nielsen, T.F.D. 1997: Rare earth chemistry of perovskite group minerals from the Gardiner Complex, East Greenland. *Mineralogical Magazine* **61**, 197–212.

Chalmers, J.A. 1997: The continental margin off southern Greenland: along-strike transition from an amagmatic to a volcanic margin. *Journal of the Geological Society (London)* **154**, 571–576.

Chaussidon, M. & Appel, P.W.U. 1997: Boron isotopic composition of tourmalines from the 3.8-Ga-old Isua supracrustals, West Greenland: implications on the

- $\delta^{11}\text{B}$ value of early Archean seawater. *Chemical Geology* **136**, 171–180.
- Garde, A.A., Grocott, J. & Cruden, A.R. 1997: Rapakivi granite emplacement in the Palaeoproterozoic Ketilidian orogen, South Greenland. *Lithoprobe Report* **61**, 92–99. Vancouver, Canada: University of British Columbia.
- Langangen, A. & Bennike, O. 1997: *Chara Baltica* Bruz. Found in Greenland. *Cryptogamie, Algologie* **18**, 375–376.
- Neuhoff, P.S., Watt, W.S., Bird, D.K. & Pedersen, A.K. 1997: Timing and structural relations of regional zeolite zones in basalts of the East Greenland continental margin. *Geology* **25**, 803–806.
- Nielsen, T.F.D., Solovova, I.P. & Veksler, I.V. 1997: Parental melts of melilitolite and origin of alkaline carbonatites: evidence from crystallised melt inclusions, Gardiner complex. *Contributions to Mineralogy and Petrology* **126**, 331–344.
- Nøhr-Hansen, H. & Dam, G. 1997: Palynology and sedimentology across a new marine Cretaceous-Tertiary boundary section on Nuussuaq, West Greenland. *Geology* **25**, 851–854.
- Pedersen, A.K., Watt, M., Watt, W.S. & Larsen, L.M. 1997: Structure and stratigraphy of the Early Tertiary basalts of the Blossville Kyst, East Greenland. *Journal of the Geological Society (London)* **154**, 565–570.
- Reeh, N., Thomsen, H.H., Olesen, O.B. & Starzer, W. 1997: Mass balance of North Greenland: discussion. *Science* **278**, 207–209.
- Samuelsson, J., Dawes, P.R. & Vidal, G. 1997: Acid-resistant palynomorphs from the Proterozoic Thule Supergroup, North-West Greenland. In: Samuelsson, J.: Early Neoproterozoic ecosystems in the North Atlantic region: integrated palaeobiological, biostratigraphic and geochemical studies, 63 pp. Uppsala: Institute of Earth Sciences, Uppsala University, Sweden.
- Stemmerik, L. 1997: Permian (Artinskian-Kazanian) cool-water carbonates in North Greenland, Svalbard and the western Barents Sea. In: James, N.P. & Clarke, J.A.D. (eds): Cool-water carbonates. SEPM Special Publication **56**, 349–364. Tulsa, Oklahoma: Society for Sedimentary Geology.
- Stendal, H. & Schönwandt, H.K. 1997: Project Suprasyd, South Greenland. Minerals Industry International. *Bulletin of the Institution of Mining and Metallurgy*, **1038**, 32–37.
- Stevenson, R., Upton, B.G.J. & Steenfelt, A. 1997: Crust–mantle interaction in the evolution of the Ilímaussaq Complex, South Greenland: Nd isotopic studies. *Lithos* **40**, 189–202.
- Whittaker, R.C., Hamann, N.E. & Pulvertaft, T.C.R. 1997: A new frontier province offshore northwest Greenland: structure, basin development, and petroleum potential of the Melville Bay area. *American Association of Petroleum Geologists Bulletin* **81**, 978–998.