

Diamond exploration data from West Greenland

Sven Monrad Jensen, Mogens Lind, Thorkild M. Rasmussen,
Frands Schjøth and Karsten Secher

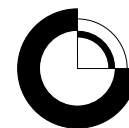
(1 DVD included)



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GEUS

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Abstract

Exploration companies have produced a large volume of data relevant to diamond exploration in West Greenland since 1995. The data include mineral analyses of heavy minerals recovered from till samples, dyke and boulder distribution maps, geophysical surveys, results of diamond testing of mini-bulk sampled dykes, drill logs, etc. The data are available in geological assessment reports submitted to the Bureau of Minerals and Petroleum and archived in the Geological Survey of Denmark and Greenland. A total of 161 company reports have been judged to be of relevance to diamond exploration. Seventeen of these reports are still confidential, wholly or in part, as of 1 March 2003. The remaining 146 reports are included in the present compilation as Adobe PDF files.

The report also includes data from recent GEUS field work in West Greenland. The aim of these studies is to assess information companies' exploration activities and to incorporate Survey expertise such as petrology, structural geology, isotope geology, geochemistry and geophysics.

Introduction

Kimberlitic and lamproitic rocks in Greenland are only known along the west coast from 60°N to 72°N. The majority of occurrences are located within the area between Maniitsoq and Sisimiut. In total nearly one thousand localities with kimberlitic rocks in West Greenland have been recorded, of which nearly 2/3 are found within a major alkaline province in the region around 66°N. The density of occurrences appears to partly reflect the uneven degree of investigation of different areas, and partly the fact that the rocks often occur in swarms. Accordingly the absence of reported occurrences outside the major alkaline province might be due to the lack of detailed exploration. However, the absence of reports of kimberlitic rocks from otherwise thoroughly investigated areas, i.e. a major part of the Archaean craton between 62°N and 65°N, points to a real absence of occurrences. This could also be the case in the Palaeoproterozoic orogens north of 67°N. The commercial exploration carried out in West Greenland from 1992–2002 has mainly focused on the major alkaline province. The investigations of the remaining part of southern West Greenland has been of more regional character.

Exploration companies have produced a large volume of data relevant to diamond exploration since 1995. The data include mineral analyses of heavy minerals recovered from till samples, dyke and boulder distribution maps, geophysical surveys, results of diamond testing of mini-bulk sampled dykes, drill logs, etc. The purpose of the present digital compilation on DVD is to provide an overview of available company and Survey data to the mining industry with the intention to assist in selecting future exploration targets.

The compilation contains scanned text and maps, and selected digital data from company assessment reports submitted to the Bureau of Minerals and Petroleum according to the standard terms for exploration licences. Future updates of the data on the DVD may be envisaged.

Data on DVD

Data sources

Geological (or assessment) reports submitted to the Bureau of Minerals and Petroleum (BMP), or its predecessor Mineral Resources Administration for Greenland, constitute the main source of data.

A geological report must be submitted to the BMP by 1 April for work conducted during the previous year. The confidentiality of assessment reports is handled in accordance with the Bureau of Minerals and Petroleum's Standard Terms for Exploration Licences for Minerals (Excluding Hydrocarbons) in Greenland, available at www.bmp.gl: 'Reporting submitted in accordance with sections 1001–1002 shall be treated as confidential by BMP for a period of 5 years from the date when the reporting was submitted to BMP. However, the period of confidentiality will terminate at the expiry of the exploration licence (or a new licence granted according to sections 302–303) as regards those areas not covered by an exploitation licence'.

This means that data pertaining to areas that become open after an amendment of the delineation of a licence are free in so far as they can be isolated from the data that are still covered by the exploration licence. In this compilation, only point data that can easily be isolated and extracted from reports that also contain confidential data have been included.

Most reports are given complete with all large maps and appendices. Sections on financial reporting on the exploration licences have generally been excluded, however. In such cases a page has been inserted stating what has been left out.

Five selected open file GEUS reports (Larsen 1991a; Appel 1994; Stemp & Thorning 1995; Stemp 1996; Smirnov et al. 1997) and one consulting report (Griffin et al. 1995) of relevance to diamond exploration are included.

Data files

A total of 161 company reports of relevance to diamond exploration have been scanned and stored in Adobe PDF format. Seventeen of these are still confidential as of 1 March 2003 and are not included; the remaining 144 reports are in the public domain. For reports that cover both current and expired exploration licences the PDF file has been excluded, but point data pertaining to relinquished areas appear in the data tables. Several reports are cross-referenced with hyperlinks when the reporting on a specific set of data occurs in more than one source.

Digital data from geophysical surveys conducted by licensees are not included, but are in most cases available from GEUS at the cost of reproduction. Metadata on geophysical surveys are found in Microsoft Access and Excel files, and as several ESRI ArcView shapefiles.

There are three ways to browse and manipulate the compiled data: as ArcView GIS 3.3 shapefiles, as Excel spreadsheets, and as Access 2000 tables. The content of the data tables is the same for all three platforms. The ArcView shapefiles can also be displayed using the ESRI ArcExplorer GIS viewer which is freeware (included the directory \Viewers).

Scanned reports in PDF format are found in the directory \Reports. The directory \Reports\DDH_logs contains diamond drill hole logs extracted from full assessment reports (all with hyperlink to full report). The Access database is Greenland_diamond.mdb in the directory \Access data. Excel spreadsheets reside in the directory \Excel data.

Data file attributes

The data fields listed in Table 1 are common to several data tables, and are essential keys to linking between the data and their sources.

Table 1. *Data field attributes common to several tables*

Field	Data type	Description of field content
db_ID	Integer	Database ID
GRF1	String	GEUS Report File number of primary data source
GRF2	String	GEUS Report File number of secondary data source (if the same data are treated in more than one report)
Licence	String	Licence identification number assigned by BMP
Subarea	Integer	Subarea identification number assigned by BMP
Concession	Integer	Licence identification number assigned by GEUS
Licensee	String	Name of the holder of exploration or prospecting licence
Year_field	Integer	Year of field work
Year_rpt	Integer	Year of reporting
Latitude	Double real	Latitude of observation point in decimal degrees
Longitude	Double real	Longitude of observation point in decimal degrees
UTM_N	Double real	UTM Northing of observation point in metres (reported for some dykes)
UTM_E	Double real	UTM Easting of end point of observation point in metres (reported for some dykes)
UTM_Z	Integer	UTM Zone designation (northern hemisphere)
Orig_sys	String	Co-ordinate system originally reported
Field_area	String	Name of field area as assigned in original report
Sample_ID	String	Unique sample identification number assigned in this data compilation
HotLink	String	ArcView hotlink string (specifies hotlink path to PDF files or TIF images)
Hyperlink	String	Hyperlink (specifies hotlink path to PDF files or TIF images), active in Access and Excel tables

In the indicator mineral picking and chemistry tables, the following abbreviations are used for the picked minerals: GAR = garnet (unspecified), PYR = pyrope, ECL = eclogitic garnet,

ILM = ilmenite, CD = chrome-diopside, CHR = chromite, OL = olivine, OPX = orthopyroxene, CPX = clinopyroxene, ZR = zircon.

How to use the ArcView project

In order for the ArcView project to work, a system variable, GMXCARAT, must be defined for the computer.

In Windows NT 4.0, set the following variable:

- Open Start>Settings>Control Panel>System>Environment>User variable
- Set Variable = GMXCARAT and Value = <drive>\ (where <drive> is the DVD drive)

In Windows 98, set the following variable:

- Edit autoexec.bat
- Add a new line: 'set GMXCARAT=<drive>'

It may be necessary to restart the computer for the change to take effect. Having set this system variable, simply open the ArcView project AV_Greenland.apr residing on the root of GMXCARAT.

Buttons

In the ArcView project, the button marked 'L' opens a legend to the geological map included. The two blue tool buttons marked '1024' and '1280' serve two purposes:

1. In the Project window, press one of the buttons to resize the project window to fit a screen with 1024 × 768 or 1280 × 1024 pixels, respectively
2. In any View, press one of the buttons to select and make active one from a list of Views. Selecting a View also resizes it to a screen with 1024 × 768 or 1280 × 1024 pixels, respectively

Hotlinks

Several point and polygon themes have a field with an ArcView hotlink: selecting a feature in an active theme with the 'lightning' tool button opens an Acrobat Reader window (for reports in PDF, and some images) or an image window for photographs in the '3. Photographs' View. If the 'lightning' tool is dimmed, the active theme has no hotlink option.

For most data themes the hotlink tool opens the PDF file with the appropriate scanned assessment report. Once Adobe Acrobat Reader has been activated by a hotlink, it is recommended to keep the application open for faster display of subsequent hotlinked documents.

Projection and co-ordinate system

The projection recommended and used in the ArcView project is UTM zone 22. The ArcView shapefiles are unprojected and in decimal degrees. Georeferenced TIF images showing total magnetic intensity maps of survey blocks are in UTM zone 22 projection, however.

All geographical co-ordinates are in WGS84. Most point data are given in decimal degrees and UTM co-ordinates. An adjacent data field, 'Orig_sys' states which co-ordinate system was originally reported. Co-ordinate transformations have been made using KMSTrans v. 22 Dec 2000 (freeware, available for download from www.kms.dk). This software uses the 'official' transformations for Greenland from the National Survey and Cadastre (Kort & Matrikelstyrelsen, KMS).

Users who do not have ArcView

The data can also be displayed and explored – with reduced categorising and sorting options – using ESRI's free lightweight GIS viewer ArcExplorer 4.0.1 Java Edition. The software is available from www.esri.com, and is also included on this DVD for Windows 98/2000/NT/XP. Versions for other operating systems can be downloaded at www.esri.com. Most notably absent in the ArcExplorer version is the elaborate cross-referencing (Hotlink) capability used extensively to provide hyperlinks to images and PDF documents in the ArcView version. Instead, the user is encouraged to utilise the ArcExplorer's Identity and MapTips tools to identify paths and file names of images and PDF documents.

Another major difference between the two versions is that the ArcView version contains data presentations arranged as 13 views in a single project, whereas the same data in the ArcExplorer version are arranged into 13 separate projects that must be opened one at a time (an ArcExplorer project can only have one view):

- AE_01_Overview.axl
- AE_02_Geology.axl
- AE_03_Photographs.axl
- AE_04_Occurrences_kimberlitic.axl
- AE_05_Diamonds+drilling.axl
- AE_06_Indicator_pick.axl
- AE_07_Indicator_chemistry.axl
- AE_08_Aeromag_GEUS-BMP.axl
- AE_09_Aeromag_companies.axl
- AE_10_AEM+Aeromag.axl
- AE_11_Ground_geophysics.axl
- AE_12_Hyperspectral_coverage.axl
- AE_13_Exploration_licences.axl

The shapefiles displayed by these ArcExplorer projects reside in the directory '<DVD drive>\Shapefiles_UTM22\' and its subdirectories.

Because ArcExplorer does not provide hyperlinking capabilities, the legend to the digital geological map provided must be opened manually with Acrobat Reader:

Geology_legend_explanation.pdf

Topographical and geological maps

The area of interest is within longitudes 40°–55° W and latitudes 59°–70° N. The following map themes are provided:

1. Topographical map at scale 1:2 500 000 for the whole of Greenland. Topographic base: G/2.5 M Vector, copyright KMS/GEUS 1997
2. Geological map at scale 1:2 500 000, clipped to the area of interest. Copyright GEUS
3. Topographical map at scale 1:250 000. Topographic base: G250/Vector, copyright Kort & Matrikelstyrelsen 1997, 1998 and 2001

The geological map is a GIS version of Escher & Pulvertaft (1995) with descriptive text by Henriksen et al. (2000).

It should be noted that features in the G/250 Vector map may deviate up to 100 m from present-day GPS positions.

The G/250 Vector map consists of five themes: gr_land_p.shp, gr_land_l.shp, gr_lake_p.shp, gr_lake_l.shp and gr_river.shp. For best results, the five themes should be added to a View in the order listed. In the Views provided, the first theme is set to be displayed at all zoom levels, whereas the other four themes only become visible at View scales equal to or greater than 1:750 001, 1:2 000 001, 1:750 001 and 1:1 500 001, respectively. File names for map polygon themes end with '-p.shp' and line themes with '-l.shp'.

In ArcView Views, text labels with place names only fit to the underlying theme (airports.shp and settlements.shp) at the initial zoom factor. At a given zoom level, labels may be removed using the 'Remove Labels' and re-labelled using the 'Auto-label' feature on an active theme.

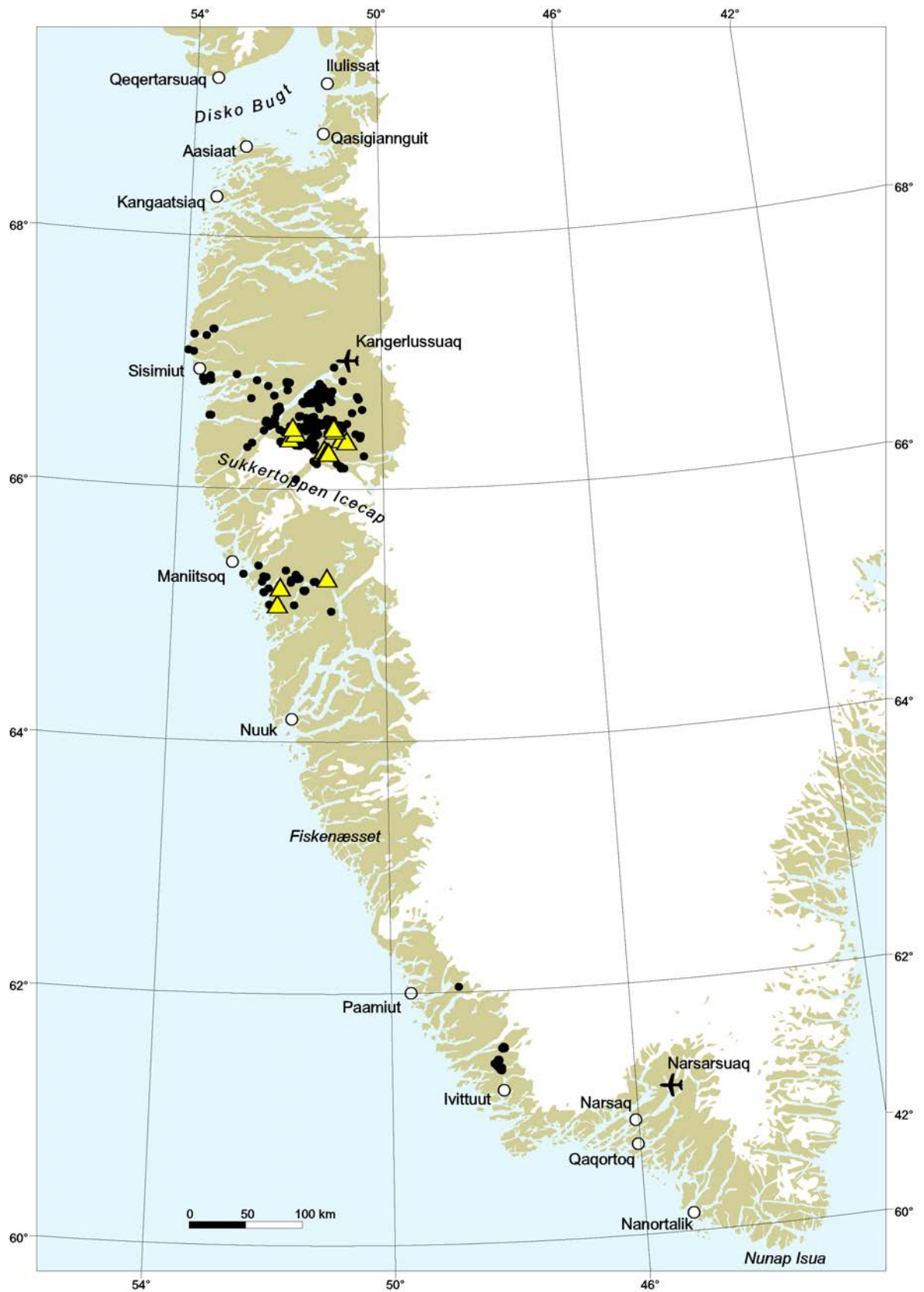


Figure 1. Overview map of southern West Greenland showing the occurrences of kimberlitic rocks (black dots) and diamond finds (yellow triangles).

Diamond exploration in Greenland

Greenland has seen several campaigns of diamond exploration since the early 1970s. For an excellent review of investigations and occurrences up to 1991, see Larsen (1991a). Inspired by reports of kimberlite dykes at several locations in southern West Greenland, Renzy Mines Ltd. investigated occurrences in the Pyramidefjeld area north of Ivittuut in South-West Greenland and recovered 2 microdiamonds and 1 macrodiamond from kimberlitic samples. Further north, at Fiskenæsset between Paamiut and Nuuk, Platinomino A/S reported 10 microdiamonds from a large stream sediment sample. Charter Consolidated Mines Ltd. conducted regional kimberlite prospecting in large parts of West Greenland and recorded many new occurrences in the Sisimiut–Kangerlussuaq area. Two microdiamonds were reported from bulk stream sediment samples in the large Arnangernup Kuua ('Sarfartoq') valley. There have been several attempts at reproducing or explaining the reported alluvial Fiskenæsset diamonds, but without success; their authenticity is regarded as dubious (Larsen 1991a; LeCouteur 1998a).

During the 1970s and 1980s, GEUS and various academic workers conducted investigations in West Greenland, especially in the Sarfartoq and Sisimiut areas, producing the first detailed studies of the kimberlitic rocks (e.g., Goff 1975; Scott 1977, 1981; Larsen 1980, 1991a; Thy et al. 1987). Mantle xenoliths and indicator mineral chemistry have been primary subjects of more recent academic work (Griffin et al. 1995; Garrit 2000; Hansen 2002; Jensen et al. 2002).

The next commercial exploration campaigns began around 1994–1995, following the discoveries of diamondiferous kimberlites in Canada's Northwest Territories and the Voisey's Bay nickel-copper-cobalt deposit in Labrador. Many companies turned their eyes to Greenland, and large areas in the Archaean and adjacent Proterozoic mobile belts of western and southwestern Greenland were covered by exploration licences in rapid succession. By 1997, all of western Greenland between Disko Bugt and Qaqortoq in South Greenland was claimed, covering a total of approximately 60 000 km².

The first field seasons were dedicated to regional till and stream sediment sampling programmes with a view to detecting kimberlite indicator minerals. More than 10 000 sites were sampled and approximately 30 000 suspected indicator minerals were analysed. Next followed airborne geophysical magnetic and electromagnetic surveys and drilling for possible diatremes on frozen lakes. The first report of diamonds from in situ kimberlite was reported from the area east of Maniitsoq in 1997 by Platinova A/S. A 792 kg sample of a large dyke yielded 25 microdiamonds (<0.5 mm) and 16 macrodiamonds.

Many new kimberlitic occurrences, a high density of favourable indicator minerals in till samples and microdiamonds from several dykes and sills gradually shifted the focus back to the Sarfartoq region, and since 1999 most of the exploration activities have been concentrated here. To date, approximately 100 000 indicator mineral analyses have been made in this region. The highest number of microdiamonds recovered was from a field of large boulders of a suspected dyke or sill that returned 474 microdiamonds and 5 macrodiamonds. Another striking discovery was of a very large dyke that is traceable by geo

physical means over a length of 5 km. Two diamond drill holes placed 2.6 km apart confirmed a width of 20 m (Ferguson 2001).

During 2002, GEUS and BMP conducted an airborne hyperspectral survey over the Sarfartoq region. The spectral data are being processed for release in 2003. One of the aims is to detect kimberlitic rocks or weathering material associated with them.

From 1998 to 2002 there has been a steady decline in activity; at the end of 2002 only around 6500 km² were covered by exploration licences. In 2003, however, new applications for areas southwest of Kangerlussuaq are being processed by the BMP.

Highlights of the last seven years' diamond exploration:

- 1995 Investigations in South-West Greenland, partly on previously reported kimberlites and diamond finds
- 1996 Regional till and stream sediment programmes for the whole of the Archaean block of southern West Greenland initiated
Microdiamonds from boulders, E of Maniitsoq
Helicopter-borne geophysics in the same area
- 1997 Helicopter-borne and ground geophysics in the Maniitsoq–Kangerlussuaq region
Diamond drilling for possible kimberlite diatremes under frozen lakes, same region
Greenland's first diamonds reported from in situ kimberlite dyke, E of Maniitsoq (16 macros and 25 micros from a 792 kg sample)
- 1998 Helicopter-borne geophysics in the Maniitsoq–Kangerlussuaq region
Diamond drilling for possible kimberlite diatremes under frozen lakes, same region, including an 18-hole programme of which 14 holes intersected kimberlite
Reports of numerous new kimberlitic occurrences, several with 'unique' diamond indicator mineral chemistries
Microdiamonds from several boulder and dyke occurrences SW of Kangerlussuaq
474 microdiamonds and 5 macrodiamonds from mini-bulk samples of large kimberlitic boulders from suspected dyke or sill
- 1999 Ground geophysics in areas of the latest diamond finds
Helicopter-borne geophysics in the Maniitsoq–Kangerlussuaq region
- 2000 Extensive indicator mineral analysis programme for samples from areas SW of Kangerlussuaq
Field activities limited to follow-up on positive indicator mineral results
- 2001 Diamond drilling for kimberlites and base metal mineralisation in areas SW of Kangerlussuaq. Citation Resources Ltd. reported a very large kimberlitic dyke (20 m wide and 5 km long)
- 2002 Field activities limited to brief reconnaissance by one company

Kimberlites and related rocks in Greenland

Geological setting

Southern West Greenland hosts the major alkaline province with a variety of ultramafic alkaline rocks. The alkaline province includes swarms of dykes described as kimberlites and lamproites (Larsen 1991a), and these rock types are widely distributed in the Sisimiut–Sarfartoq–Kangerlussuaq region, as well as the region just south of Sukkertoppen Icecap. The dykes have been interpreted as cone-sheets centred on the 0.6 Ga Sarfartoq carbonatite complex (Secher & Larsen 1980). Lamproitic dykes in the adjacent Sisimiut region are around 1.2 Ga old, and the kimberlitic dykes in both the Sarfartoq and Sisimiut regions have ages of around 0.6 Ga (Larsen & Rex 1992). A precise spatial relationship between the intrusive events resulting in kimberlitic rocks and carbonatites has not been established. The 170 Ma Qaqaarsuk complex (Knudsen 1989), located in the area south of Sukkertoppen Icecap, represents the youngest alkaline magmatic event.

The alkaline ultramafic dykes within the Sisimiut–Kangerlussuaq and Sarfartoq regions intrude the border zone between the Archaean craton and the Palaeoproterozoic Nagssugtoqidian orogen. This border is defined as the southern boundary of Palaeoproterozoic reworking of the Archaean basement gneisses. The Nagssugtoqidian orogen is a 300 km wide belt of predominantly Archaean gneisses which were reworked during the Palaeoproterozoic (van Gool et al. 2002a,b). The reworking has affected the Palaeoproterozoic Kangâmiut dolerite dykes, which were intruded into the Archaean basement prior to deformation and are now highly strained and boudinaged north of the boundary.

Kimberlitic rocks within the undisturbed Archaean craton south of Sukkertoppen Icecap appear to be of the same age as the alkaline rocks in the Sarfartoq–Kangerlussuaq region. A genetic relation to the Qaqaarsuk carbonatite is thus unlikely. The rocks are found within an area of c. 50 × 50 km and the kimberlites are emplaced as dykes, not more than 2 m wide.

The only other area with a significant number of kimberlitic occurrences in West Greenland is the Paamiut–Ivittuut region near the southern boundary of the Archaean craton. Dykes and sills, rarely more than 1 m wide, have been reported. A few age determinations suggest emplacement in the Mesozoic, around 170–200 Ma.

For further details of the kimberlitic, lamproitic and related rocks in West Greenland the reader is referred to the review by Larsen (1991a).

Nomenclature and classification

The broad term ‘kimberlitic’ is used here in acknowledgement of the fact that the classification of the ultramafic dyke rocks of West Greenland is not resolved with unanimity. Many of

the dyke rocks resemble kimberlites and have previously been described as such (Larsen 1980, 1991a; Scott 1981; Larsen & Rex 1992). Mitchell et al. (1999), however, take the view that the Greenland dyke rocks are not 'archetypal' kimberlites, but ultramafic lamprophyres that should be termed melnoites or aillikites. In the light of the actual occurrence of diamonds in the West Greenland dyke rocks, Mitchell et al. (1999) consider them to represent one of the few examples of diamond-bearing ultramafic lamprophyres.

None of the company reports provide sufficient information to allow a detailed classification of the kimberlitic rocks. Consequently, all rock names in the present compilation are reproduced as given in the original report.

GEUS field campaigns 2000–2002

A GEUS project concerned with general scientific aspects of kimberlitic and related rocks in the Sisimiut–Kangerlussuaq region was established in 2000. The aim is to gather knowledge from companies' exploration activities and to incorporate Survey expertise such as petrology, structural geology, isotope geology, geochemistry, geophysics and the geographic information system (GIS). One of the aims of the present project is to contribute to a generally accepted classification of the West Greenland kimberlitic and related rocks. The field work was carried out in 2000, 2001 and 2002.

Reconnaissance field work

Field work in 2000 consisted of limited reconnaissance including visits to new dyke occurrences reported by exploration companies. The 2001–2002 field work was focused on the spatial distribution of kimberlitic dyke rocks in areas with little or no previous information, and detailed studies on mantle xenoliths from the kimberlitic dykes (Jensen et al. 2002). The field work also included testing of the locating procedures described in companies' assessment reports as well as earlier Survey activities using various Global Positioning System (GPS) equipment and GIS methods. Some of the field observations in 2001 have been reported in Jensen et al. (2002).

Dyke and sills

Dykes occur at distances of up to 40 km south, 35 km north, 50 km west and 30 km east of the Sarfartoq carbonatite complex (i.e. the cone-sheet zone), and commonly appear to be controlled by pre-existing joint systems or concordant with the enclosing gneiss. The intrusions are often flat-lying sheets, rarely over 1 m thick, and traceable for a few tens of metres, while others are subvertical, 1–2 m wide, and traceable for many hundreds of metres.

The density of occurrences of in situ dykes and boulders (float) in the Sisimiut–Sarfartoq–Kangerlussuaq region known at present is indicated in Figure 1. The more than 600 occurrences reported from the area north of Sukkertoppen Icecap include those from Larsen's (1991a) compilation and new localities added by exploration companies and the 2000–2002 field work by GEUS.

New boulder trains

Ubiquitous kimberlitic or lamproitic boulders ranging in size from a few centimetres to 2 metres across are often concentrated in clusters or trains that may number hundreds of boulders, and be many hundreds of metres long. A number of boulder trains not known from previous work were recorded. The location of new trains is concentrated along the periphery of what is thought to be the outer margin of the cone-sheet zone around the Sarfartoq carbonatite complex. This zone has been described as a more or less circular shaped area with the carbonatite intrusion in the centre and a radius of 30–40 km.

Large boulders are often broken up into many smaller fragments, resulting in a much higher count of individual pieces of kimberlitic rock. The high number of kimberlitic boulders in many areas suggests they may have been derived from a relatively nearby outcrop, or simply are residual boulders in an 'almost in-situ' position.

During the field work it has been recognised that although dykes or sills of kimberlitic rocks often occur in areas with boulder trains, it is difficult to establish relationships to the boulders.

Geophysical investigations

The geophysical investigations includes the following types of data:

- Magnetics
- Frequency domain electromagnetic measurements
- Transient electromagnetic measurements
- VLF
- Radiometric measurements
- Hyperspectral measurements

The radiometric data are mainly from a regional survey and are not described in this report. The magnetic data are included as geo-referenced images in TIF format on the DVD. Only images of the magnetic field from the combined airborne electromagnetic and magnetic surveys are included.

Magnetic data

Airborne magnetic surveys

Geophysical investigations include government-funded regional aeromagnetic surveys with a continuous coverage of modern high-quality magnetic data in west and south Greenland for the area free of permanent ice from Nunap Isua (Kap Farvel) to Upernavik Kujalleq (Søndre Upernavik). Detailed airborne surveys with magnetic only measurements as well as measurements of the magnetic field from combined electromagnetic and magnetic surveys are available from investigations carried out by prospecting companies and by BMP and GEUS.

The majority of the regional magnetic surveys were performed by flying along a gently draped surface 300 m above the ground. The line separation has been 500 m with tie-lines in the orthogonal direction having a separation of 5000 m. The sampling distance along lines is approximately 7 m.

Parameters for the detailed surveys vary significantly between surveys. The most detailed recordings, i.e. lowest altitude (~45 m) and line separation (~100 m), are from the combined electromagnetic and magnetic surveys (see section on electromagnetic data). Typical parameters from the magnetic only surveys are a nominal altitude of about 150 m and line separation of 250 m.

Ground magnetic surveys

Ground magnetic surveys have been conducted both by GEUS and by some of the prospecting companies. In some cases, the surveys have been made within a grid and in oth

ers, only profile data are available. In order to illustrate the amount of information that can be gained from this type of surveys, results from a number of profiles measured by GEUS are included in this report as digital images only (Figures 2–11):

[Figure 2](#)

[Figure 3](#)

[Figure 4](#)

[Figure 5](#)

[Figure 6](#)

[Figure 7](#)

[Figure 8](#)

[Figure 9](#)

[Figure 10](#)

[Figure 11](#)

Locations with exposed kimberlitic rocks are indicated by “Kim” on the figures and inferred locations are indicated by “Kim ?”. In general, the kimberlitic rocks have high magnetic susceptibility. In areas where the magnetite of the gneisses and in the Kangâmiut dykes has been destroyed during retrograde metamorphism, the kimberlitic rocks can easily be traced from the magnetic data. In high-grade terrains, the kimberlitic rocks have properties similar to some units within the host rocks, and discrimination by using magnetic measurements is more difficult.

Electromagnetic data

Airborne electromagnetic surveys

Both fixed-wing and helicopter surveys with combined electromagnetic and magnetic surveys have been carried out. In some cases, radiometric measurements were also included. In 1995 BMP funded a GEOTEM survey carried out by Geoterrex-Dighem Ltd. around Nuuk and Maniitsoq as part of the AEM Greenland 1994–1998 programme (Rasmussen et al., 2001). The line separation was 400 m within 2/3 of the investigated area and 200 m within the remaining part. Cominco Ltd. contributed financially to the 1995 survey. Within the same airborne electromagnetic programme, a helicopter-borne survey with the 5-frequency Aerodat system was carried out in the Grønnedal area (Ivittut) in 1996. This

survey did also include radiometric and VLF measurements. The line separation for this survey was 200 m.

Most of the surveys by the exploration companies have been carried out with the five-frequency system from Aerodat Inc. and the Dighem^V system from Geoterrex-Dighem Ltd. Typical line separation for these surveys is 200 m; the nominal sensor height is about 30 m.

Ground electromagnetic surveys

Most of the ground electromagnetic measurements are MAX-MIN profiles and VLF profiles.

Hyperspectral data

During the summer of 2002, HyVista carried out an airborne hyperspectral survey in central West Greenland under a contract with BMP. Ground surveying aimed at the establishment of a spectral library was an integral part of this project. GEUS manages the project and handles the supporting fieldwork and interpretation. Partners from Finland and Germany participated in the field work. The survey operations were based in Kangerlussuaq and were primarily directed towards the kimberlite province in the area.

The hyperspectral scanner from HyVista records 126 bands in the range from 450 nm to 2480 nm. The flight altitude for the surveys was 10 000 feet which imply a spatial resolution of about 5 m.

Table 2. *Spatial configuration of HyMap scanner*

Instant field of view	2.5·10 ⁻³ radian along track
	2.0·10 ⁻³ radian across track
Field of view	60 degrees (512 pixels)
	Swath 2.3 km at 5 m (along track)
	4.6 km at 10 m (along track)

Table 3. *Spectral configuration of HyMap scanner*

Module	Spectral range	Average spectral sampling distance	Number of bands
VIS	450–890 nm	16	30
NIR	890–1450 nm	13	32
SWIR1	1400–1800 nm	12	32
SWIR2	1950–2480 nm	16	32

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