

**FILCHNER-RONNE ICE SHELF PROGRAMME
(FRISP)**

Report No 10 (1996)

compiled by

Hans Oerter

Alfred-Wegener-Institute für Polar- und Meeresforschung

Alfred-Wegener-Institute for Polar and Marine Research

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**11th International Workshop of the
Filchner-Ronne Ice Shelf Programme
held at
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University of Stockholm, Sweden
on 13th-14th June 1996**

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Introduction

The 11th International Workshop of the Filchner-Ronne Ice Shelf Programme (FRISP) was held in Sweden at Stockholms University, Department of Physical Geography on 13th-14th June 1995. We are grateful to Dr. Per Holmlund and his colleagues, for their excellent organisation of the meeting, as well as the demonstration of glacial and Viking history in the surroundings of Stockholm. We thank Per Holmlund and his wife Anna Schytt for the wonderful picnic they prepared for the excursion out in the nature. In total 44 participants from Belgium, Chile, Germany, the Netherlands, Norway, Sveden, the United Kingdom, and the USA came together. For the first time a FRISP workshop was hosted by Sweden.

The FRISP Report No. 10 combines 26 written summaries of in total 32 talks, which were presented at the workshop. The papers collected in this volume present a good overview of the latest state of FRISP and the co-operation of the participating groups. The ice-shelf ocean interaction is still one of the major topics, a matter of both, field investigations and modelling. Calculating the mass balance along ice streams flowing into the Ronne ice shelf is undertaken by various means. The work on the Berkner Island ice cores continues as well as the evaluation of shallow ice cores with respect to accumulation studies.

With the start of EPICA (European Project for Ice Coring in Antarctica) some groups are now focusing their work more in the region of Dronning Maud Land carrying out accumulation studies, investigations on snow chemistry, and ice thickness measurements. These projects as well as the traverse work on the Foundation Ice Streams fit nicely to the SCAR Programme ITASE. Also the SCAR Programme ISMASS benefits from the work carried out in the frame of FRISP. The new EISMINT/SCAR initiative BEDMAP (Bed Mapping in Antarctica) will also include a remarkable amount of ice thickness data measured within the region of the Filchner-Ronne-Schelfeis or by the members of the FRISP community elsewhere.

University College London offered to host the 12th FRISP workshop mid June 1997.

It is gratefully acknowledged that Alfred-Wegener-Institut covers the expenses for printing this report.

Hans Oerter



Workshop participants during the excursion on June 15th in the surroundings of Stockholm, sitting or standing on glacier polished rock smiling towards the camera of Anna Schytt.

Participants and addresses

Norbert Blindow

Universität Münster, Forschungsstelle f. phys. Glaziologie, Corrensstraße 24, D-48149
Münster, Germany
Tel.: +49-251-83-3593 Fax.: +49-251-83-8397 e-mail: blindow@nwz.uni-muenster.de

Michiel van den Broeke

Norsk Polarinstitutt, Middelthuns gate 29, Postboks 5072 Majorstua, N-0301 Oslo, Norway
Tel.: +47-22-959563 Fax.: +47-22-959501 e-mail: michiel@npolar.no

Christian Boresjö-Bronge

University of Stockholm, Department of Physical Geography, S-10691 Stockholm, Sweden
Tel.: +46-8-164-814 Fax.: +46-8-16 4-818 e-mail: bronge@natgeo.su.se

Laine Boresjö-Bronge

University of Stockholm, Department of Physical Geography, S-10691 Stockholm, Sweden
Tel.: +46-8-164-785 Fax.: +46-8-16 4-818 e-mail: laine@natgeo.su.se

Gino Casassa

Universidad de Magallanes, Casilla 113-D, Punta Arenas, Chile
Tel.: +56-61-212945 Fax.: +56-61-219276 e-mail: gcasassa@ona.fi.umag.cl

Hugh Corr

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET Cambridge, UK
Tel.: +44-1223-251-496 Fax.: +44-1223-362616 e-mail: hfjc@bas.ac.uk

Hugo Declair

Vrije Universiteit Brussel, Geografisch Instituut, Pleinlaan 2, B-1050 Brussel, Belgium
Tel.: Fax: e-mail: hdeclair@vnet3.vub.ac.be

Jürgen Determann

AWI, Sektion Physik II, Postfach 120161, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-804 Fax.: +49-471-4831-425 e-mail: jdeterma@awi-bremerhaven.de

Christopher Doake

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET Cambridge, UK
Tel.: +44-1223-251-488 Fax.: +44-1223-362616 e-mail: csmd@bas.ac.uk

Sebastian Gerland

University College London, Department of Geological Sciences, Gower Street, London
WC1E 6BT, UK
Tel.: +44-171-387-7050 Fax.: +44-171-388-7614 e-mail: s.gerland@ucl.ac.uk

Klaus Grosfeld

AWI, Sektion Physik II, Postfach 12 01 61, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-413 Fax.: +49-471-4831-425 e-mail: kgrosfel@awi-bremerhaven.de

Margareta Hansson

Stockholm University, Department of Meteorology, S-106 91 Stockholm, Sweden
Tel.: +46-8-164-?. Fax.: +46-8-16 4-818 e-mail: Maggan@misu.su.se

Klemens Heidland

AWI, Sektion Geologie, Postfach 120161, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-234 Fax.: +49-471-4831-149 e-mail: heidland@awi-bremerhaven.de

Ottmar Heinze

AWI, Sektion Geologie, Postfach 12 01 61, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-234 Fax.: +49-471-4831-149 e-mail: oheinze@awi-bremerhaven.de

Arne Hildebrand

Universität Münster, Forschungsstelle f. phys. Glaziologie, Corrensstraße 24, D-48149
Münster, Germany
Tel.: Fax: +49-251-83-8397 e-mail: hildebr@nwz.uni-muenster.de

Per Holmlund

University of Stockholm, Dep. of Physic. Geography, S-10691 Stockholm, Sweden
Tel.: +46-8-16 4-811 Fax.: +46-8-16 4-818 e-mail: pelle@natgeo.su.se

Johannes Ihde

Institut für Angewandte Geodäsie, Außenstelle Leipzig, Karl-Rothe-Str.10-14, D-04105
Leipzig, Germany
Tel.: +49-341-5634-424 Fax.: +49-341-5634-415 e-mail: idhe@leipzig.ifag.de

Wibjörn Karlén

University of Stockholm, Dep. of Physic. Geography, S-10691 Stockholm, Sweden
Tel.: +46-8-164-776 Fax.: +46-8-16 4-818 e-mail: ? @natgeo.su.se

Stan Jacobs

Lamont Earth Observatory, Palisades, NY 10964, USA
Tel.: +1-914365-8326 Fax.:+1-914365-8157 e-mail: sjacobs@ldgo.columbia.edu

Peter Jansson

Stockholm University, Department of Physical Geography, S-106 91 Stockholm, Sweden
Tel.: +46-8-164-815 Fax.: +46-8-16 4-818 e-mail: pete@natgeo.su.se

Adrian Jenkins

British Antarctic Survey, High Cross, Madingley Road, Cambridge CB3 0ET, UK
Tel.: +44-1223-251-493 Fax:+44-1223-362616 e-mail: ajen@pcmail.nerc-bas.ac.uk

Mark R. Johnson

British Antarctic Survey, High Cross, Madingley Road, CB3 OET Cambridge, UK
Tel.: +44-1223-251619 Fax.: +44-1223-362616 e-mail: mrj@pcmail.nerc-bas.ac.uk

Monika Jonas

IFAG, Frankfurt, Richard-Strauss-Allee 11, D-60598 Frankfurt, Germany
Tel.: +49-696333-1 Fax.: +49-696333-425 e-mail: jonas@ifag.de

Keith Makinson

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET, Cambridge, United Kingdom
Tel.: +44-1223-251-620 Fax.: +44-1223-362616 e-mail: kmak@pcmail.nerc-bas.ac.uk

William D. Miners

British Antarctic Survey, High Cross, Madingley Road, CB3 OET Cambridge, UK
Tel.: +44-1223-251-426 Fax.: +44-1223-362616 e-mail: wdmi@bas.ac.uk

Elisabeth Morris

British Antarctic Survey, High Cross, Madingley Road, Cambridge CB3 0ET, England
Tel.: +44-1223-251-492 Fax.: +44-1223-362616 e-mail: emmo@pcmail.nerc-bas.ac.uk

Jens-Ove Näslund

Stockholm University, Department of Physical Geography, S-106 91 Stockholm, Sweden
Tel.: +46-8-164-960 Fax.: +46-8-16 4-818 e-mail: jens@natgeo.su.se

Keith Nicholls

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET, Cambridge, UK
Tel.: 0044-1223-251-490 Fax.: 0044-1223-362616 e-mail: k.nicholls@bas.ac.uk

Uwe Nixdorf

AWI, Sektion Geophysik/Glaziologie, Postfach 120161, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-212 Fax.: +49-471-4831-149 e-mail: uwenix@awi-bremerhaven.de

Hans Oerter

AWI, Sektion Geophysik/Glaziologie, Postfach 120161, D-27515 Bremerhaven, Germany
Tel.: +49-471-4831-347 Fax.: +49-471-4831-149 e-mail: hoerter@awi-bremerhaven.de

Olav Orheim

Norsk Polarinstittutt, Middelthuns gate 29, Postboks 5072 Majorstua, N-0301 Oslo, Norway
Tel: +47-22-959500 Fax:+47-22-959501 e-mail: orheim@npolar.no

Liz Pasteur

British Antarctic Survey, High Cross, Madingley Road, Cambridge CB3 0ET, England
Tel.: +44-1223-251-427 Fax.: +44-1223-362616 e-mail: epa@pcmail.nerc-bas.ac.uk

David Peel

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET, Cambridge, UK
Tel.: +44-1223-251-478 Fax.: +44-1223-362616 e-mail: dape@pcmail.nerc-bas.ac.uk

Cecilia Richardson

Stockholm University, Department of Physical Geography, S-106 91 Stockholm, Sweden
 Tel.: +46-8-164-778 Fax.: +46-8-16 4-818 e-mail: cecilia@natgeo.su.se

Björn Riedel

TU Braunschweig, Institut f. Geodäsie und Photogrammetrie, Pockelsstr.4, D-38106
 Braunschweig, Germany

Tel.: +49-531-391-74 93 Fax.: +49-531-391-55 99 e-mail: b.riedel@tu-bs.de

Martin A. Rist

University College London, Rock and Ice Physics Group Department of Geological Sciences,
 Gower Street, WC1E 6 BT London, UK

Tel.: +44-171-387-7050 x2379 Fax.: +44-171-387-1612 e-mail:
 m.rist@ucl.ac.uk

Henner Sandhäger

Universität Münster, Forschungsstelle f. phys. Glaziologie, Corrensstraße 24, D-48149
 Münster, Germany

Tel.: +49-251-83-4704 Fax.: +49-251-83-8397 e-mail: sandhag@nwz.uni-muenster.de

Michael Schulte

Universität Münster, Forschungsstelle f. phys. Glaziologie, Corrensstraße 24, D-48149
 Münster, Germany

Tel.: +49-251-83-4704 Fax.: +49-251-83-8397 e-mail: ???@nwz.uni-muenster.de

Daniel Steinhage

Universität Münster, Forschungsstelle f. phys. Glaziologie, Corrensstraße 24, D-48149
 Münster, Germany

Tel.: +49-251-83-4704 Fax.: +49-251-83-8397 e-mail: Steinhd@nwz.uni-muenster.de

Malin Stenberg

Stockholm University, Department of Meteorology, S-106 91 Stockholm, Sweden

Tel.: +46-8-162-413 Fax.: +46-8-159295 e-mail: malin@natgeo.su.se

David Vaughan

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET, Cambridge, UK

Tel.: +44-1223-251-481 Fax.: +44-1223-362616 e-mail: dgv@pcmail.nerc-bas.ac.uk

Marcus Walden

British Antarctic Survey, High Cross, Madingley Road, CB3 0ET, Cambridge, UK

Tel.: +44-1223-251-481 Fax.: +44-1223-362616 e-mail: mcwa@bas.ac.uk

Jan-Gunnar Winther

Norsk Polarinstitutt, , Postboks 5072, Majorstua, N-0301 Oslo, Norway

Tel.: +47-229-59500 Fax.: +47-229-59501 e-mail: Jan.Winther@npolar.no

Duncan Wingham

MSSL Dept. Physics & Astronomy, University College London, Holmbury St Mary, RH5 6 NT,
 Dorking, Surrey, UK

Tel.: Fax.: +44-483-278312 e-mail: djw@mssl.ucl.ac.uk

Presentations at the workshop

M. C. Walden	Digitally generated and compressed chirp for use in an airborne radar system in Antarctica.
U. Nixdorf	Results of ice thickness measurements in the southern part of the FRIS.
H. Corr	Basal melt rates along the Rutford Ice Stream.
D. Steinhage	Results of short pulse radio echo sounding on Thyssenhöhe, Berkner Island, Antarctica
D. G. Vaughan	Velocity measurements on Filchner-Ronne Ice Shelf. A compilation of new and old data.
C.S.M. Doake	Strain-rate patterns on Filchner Ronne Ice Shelf, Antarctica.
M.A. Rist	Fracture mechanics of ice shelves.
B. Riedel	GPS observations at the grounding zone of the Foundation Ice Stream.
J.-G. Winther	Scientific programme at the Nordic EPICA DML site survey in DML.
H. Oerter	The German plans for EPICA-DML
D. Peel	The British plans for EPICA-DML
P. Holmlund	The Swedish site surveys 1996-1998
J. Ihde	A new geoid in the Filchner-Ronne-Schelfeis area
C.M.S. Doake	Quantitative evaluation of SAR interferometry over Rutford ice stream, Antarctica.
A. Jenkins	Glaciological Fieldwork on Rutford Ice Stream, Carlson Inlet and Evans Ice Stream.
U. Nixdorf	Where is the grounding line at the Foundation ice stream.
M. Jonas	ERS-1 SAR mosaic of Filchner-Ronne-Schelfeis.
J.-O. Näslund	Modelling the stability of Veststraumen, DML.
G. Casassa	Glaciological studies at Patriot Hill
H. Oerter	Accumulation rates along the Foundation Ice Stream, Filchner-Ronne-Schelfeis.
L. Pasteur	Temperature trends revealed by the Berkner Island ice cover.
W.D. Miners	Stratigraphy of the Berkner Island cores.
M. Stenberg	Spatial and seasonal variability of snow chemistry in Western Dronning Maud Land.

H. Oerter	Accumulation studies between Neumayer base and Kottasberge, Heimefrontfjella.
C. Richardson	Spatial distribution of snow in Western Dronning Land, Antarctica, mapped by a ground based snow radar.
S. Gerland	Continuous density measurements on the Ice Core B25 from Berkner Island, Antarctica.
U. Nixdorf	Two temperature profiles in the northern part of the FRIS.
K.W. Nicholls	Preliminary results of oceanographic measurements from site 3, Ronne ice shelf.
J. Determann	Melting, freezing and circulation under the Filchner-Ronne-Schelfeis.
M. R. Johnson	Oceanographical observations in Ronne Entrance, George VI ice shelf.
S. Jacobs	WAIS underbelly melting at Pine Island Glacier?
K. Makinson	Modelling tidal currents beneath Filchner-Ronne Ice Shelf.
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