

#### **Bimonthly Newsletter**

#### 31.10.2016 Issue 13

# This issue

A good group of GLANAM fellows is attending the AGU 2016 fall meeting in San Francisco. Find here the titles of their posters and talks

Page 1

Berit Hjelstuen introduces a small host of young researchers at University of Bergen working on GLANAM-related questions

Page 3



Lukas showing off his brand new GLANAM T-shirt (behind, Berit approves)

# GLANAM flies to San Francisco - contributions at the AGU meeting 2016

#### **BENJAMIN BELLWALD**

Abstract ID and Title: 147019: Holocene Mass Transport Deposits in Western Norwegian fjords and lakes revealing prehistoric earthquake history of Scandinavia Presentation Type: Oral Session Date and Time: Monday, 12 December 2016; 13:40 - 14:35 Presentation Length: 14:10 - 14:25 Session Number and Title: OS13D: Marine Geohazards II (Half Session) Location: Moscone West; 3011

ELENA GRIMOLDI Abstract Title: Reconstruction of the Final Phases of Activity of the North Sea Lobe Ice Stream during the Late Devensian Presentation type: Poster Session date and Time: Friday, 16 December 2016; 13:40 - 18:00 Session Number and Title: C35C: Geophysical and Geological Records of Glaciated Margins III Posters Location: Moscone South

# LARA PERÉZ

Abstract ID and Title: 121146: Interaction of Cryospheric and Oceanographic Processes Along the Central-East Greenland Margin Presentation Type: Poster Date and Time: Friday, 16 December 2016; 13:40 - 18:00 Session Number and Title: C53C: Geophysical and Geological Records of Glaciated Margins III Posters Location: Moscone South; Poster Hall

KEVIN SCHIELE Abstract ID and Title: 133396: Offshore-onshore correlations refining the glacial history of western Ireland Final Paper Number: C51F-04 Presentation Type: Oral Session Date and Time: Friday, 16 December 2016; 08:00 - 10:00 Presentation Length: 08:45 - 09:00 Session Number and Title: C51F: Geophysical and Geological Records of Glaciated Margins I Location: Moscone West; 3009

KATHARINA STREUFF

Abstract ID and Title: 121201: Glacimarine Sedimentary Processes and Deposits at Fjord-Terminating Tidewater Glacier Margins Presentation Type: Poster

Date and Time: Friday, 16 December 2016; 13:40 - 18:00

Session Number and Title: C53C: Geophysical and Geological Records of Glaciated Margins III Posters

Location: Moscone South; Poster Hall

KASPER WEILBACH

Abstract ID and Title: 156194: Dynamics, rate and nature of retreat of the British Irish Ice-Sheet offshore of NW Ireland following the Last Glacial Maximum

Presentation Type: Poster

Session Date and Time: Friday, 16 December 2016; 13:40 - 18:00

Session Number and Title: C53C: Geophysical and Geological Records of Glaciated Margins III Posters

Location: Moscone South; Poster Hall

#### LUKAS BECKER

Abstract ID and Title: 173228: Timing, variability and sediment provenance of the Norwegian Channel Ice Stream during the Last Glacial Maximum

Presentation Type: Poster

Session Date and Time: Monday, 12 December 2016; 13:40 - 18:00 Session Number and Title: PP13A: How Fast? How Far? How Much? Paleoconstraints on the Extent and Rates of Retreat in Marine-Terminating Glaciers, Ice Sheets, and Sea Ice III Posters Location: Moscone South

#### BENEDICT REINARDY

Abstract Title: Repeated advance and retreat of the East Antarctic Ice Sheet on the continental shelf during the early Pliocene warm period

Presentation Type: Oral

Session date and Time: Wednesday, 14 December 2016; 13:40 - 15:40

Presentation Length: 13:55 - 14:10

Session Number and Title: C33D: Assessing the Stability of the Antarctic Ice Sheets and Their Contribution toward Global Sea Level I

Location: Moscone West; 3007

# The work at University of Bergen and the hidden GLANAM

# associates

Hei. As you all know we have, here in Bergen, had quite a large group of PhDs and postdocs linked to the GLANAM-project; Benjamin, Lukas, Bjørn, Jens (now back GEOMAR. Kiel) at and Benedict (now at Stockholm University). In addition we have had through the GLANAM period many MScstudents working "undercover" on GLANAMrelated research questions giving valuable additional information on fjords, the North Sea and the Norwegian margin. Here you will meet four of them: Ane, Espen, Einar and Sindre.

Einar finished his MSc in late September this year. He investigated the entire Quaternary package in the northern part of the Norwegian Channel utilizing 3D seismic data. He documented, for the first time (?), that we really have had an ice stream in the Norwegian Channel at 1.1 Ma years ago. He also suggests that we may not have had any ice stream in the channel at MIS12, which

previously has been taken as the starting point of repeated ice stream activity along the entire Norwegian margin.

Espen, on the other hand, is going to finish his thesis in November and he is struggling at the moment with how the Ling Bank Drainage Channel (Sejrup et 2016) was formed al.. (Fig.1). A nicely formed delta (with forset and topset), seen extremely well in one of our TOPAS high resolution seismic profiles, is part of this history.



Fig. 1. Espen explaining his interpretation of the Ling Bank Drainage Channel

Based on the work by Espen we now know where to go and collect additional data to unravel the complex setting of this drainage channel on our planned cruise in April 2017. Ane and Sindre have just started on their MSc-projects. Sindre will use 3D seismic data in the Norwegian sector of the North Sea to analyse tunnel valleys and their development. This study will be in collaboration with the University of Sheffield and Stephen Livingstone, whereas Ane will try to unravel the complex history of repeated mega-failures

on the Norwegian margin, a continuation of the study Benjamin Bellwald started on.

I wish you all a nice autumn and good luck with finalizing your PhD-thesis!

## Berit Hjelstuen

## References

Sejrup, H. P., Clark, C. D., Hjelstuen, B. O. (2016) Rapid ice sheet retreat triggered by ice stream debuttressing: Evidence from the North Sea. Geology, 44(5), p. 355-358 <u>Editor:</u> Riccardo Arosio

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Fig. 2. From left: Berit, Hans Petter, Einar, Espen (hidden) and Sindre on their weekly supervisory meeting (Ane not present this Thursday)

