

*Magellan Plus Workshop*

***“Mechanisms of rifting of large continental blocks – a case study at the Baltic Sea”***

*1-3 December 2021, Espoo, Finland*

## **Workshop report**

Pietari Skyttä 7 Feb 2022

### **1. Overview**

After some rescheduling we were able to arrange the workshop in the beginning of December 2021 in Espoo, Finland. The COVID-pandemic likely cut some interest, and caused some of the delegates to attend remotely. However, we experienced no health issues and were able to conduct successfully the planned program. The workshop resulted in fruitful networking and screening of ideas to set the focus of the future IOPD-proposals. Currently, the organizing team (C. Beier, J. Virtasalo and P. Skyttä) is preparing a proposal for pre-IODP-proposal geophysical imaging of the Bothnian bay.

### **2. Programme and activity**

The workshop comprised three scientific sessions, one ice-breaker reception, field excursion and a dinner (Fig. 1). Two of the invited keynote talks were given remotely. The planned sessions were followed by lively discussions and the remote participants were actively joining the discussion through the remote connections. Info on the forthcoming and ongoing workshop was shared through the social media (Fig. 3).

### **3. Participants**

The workshop had a total of 26 participants (Fig. 2). Four of these joined remotely. Three of the delegates were young scientists that are conducting their PhD studies.

### **4. Finances**

We were granted a total of 15 000€ to organize the workshop. However, we ended up underspending as (i) COVID cut the number of delegates to an extent, (ii) several of the planned keynotes joined remotely, and some the planned young scientists (e.g. from Italy) were not allowed to travel, (iii) Geological Survey of Finland provided the meeting facilities, lunches and coffees free of charge. Totally, we spent 7469.99 EUR and the expences are listed by their type in Table 1.

	<b>Tue 30 Nov 2021 Ice-breaker</b>			
18:00-20:00	Ice-breaker Restaurant Bryggeri, Sofiankatu 2, Helsinki			
	<b>Wed 1 Dec 2021, GTK, Vuorimiehentie 5, Espoo</b>			
09:00-10:00	Introduction of the workshop - main ideas, aims and questions			
10:00-10:30	Coffee and introduction of the participants			
	<b>Session 1- Regional geology</b>			
10:30-11:10	Karin Högdahl, Uppsala University, Sweden – Overview of crustal evolution in Sweden			
11:10-11:40	Annakaisa Korja, University of Helsinki – Regional-scale geophysical imaging in Fennoscandia			
12:00-13:00	Lunch			
13:00-13:40	Evgenia Salin, University of Turku – Proterozoic basement of the Baltic Sea (correlations across border)			
13:40-14:20	Jarmo Kohonen, Geological Survey of Finland – Overview of post-Svecofennian sedimentary basins in central Fennoscandia			
14:20-15:00	Alvar Soesoo - Estonian regional geology			
15:00-15:30	Time for thinking, discussions and coffee			
15:30....	Refresher on the aims and questions of the workshop + open discussion			
.... 17:00	End of Day #1			
	<b>Thu 2 Dec 2021</b>			
	<b>Session 2 - Structural evolution of rifts, structural inheritance, paleostresses</b>			
09:00-09:40	Giacomo Corti, The National research Institute of Italy (remote) – Evolution and along-axis variability of continental rifts: examples from the Main Ethiopian Rift			
09:40-10:20	Atle Rotevatn, University of Bergen, Norway – Structural inheritance in rifts and passive margins			
10:20-10:50	Coffee			
10:50-11:30	Jan Behrmann, Geomar – The Central European Rift System: Structure, Strain and Stress through time			
11:30-12:00	Nicklas Nordbäck, GTK/Uni Turku - Constraints on the post-1.6 Ga paleostress from deforming the Rapakivi granites in southern Finland			
12:00-13:00	Lunch			
	<b>Excursion, sauna &amp; dinner</b>			
13:00-16:00	Excursion in Vuosaari, eastern Helsinki (transport by a charter bus during afternoon & evening)			
16:00-18:00	Sauna, Vanha Viilatehdas, Kuninkaantie 28, Vantaa			
18:00-20:00	Dinner, Vanha Viilatehdas, Kuninkaantie 28, Vantaa			
20:00-20:30	Drive to Helsinki			
	<b>Fri 3 Dec 2021</b>			
	<b>Session 3 - Geophysical imaging, drilling target generation, proposal drafting ideas</b>			
09:00-09:40	Jörg Bialas & Michael Schnabel, Geomar (remote) - Available seismic equipment and possible surveys (a technical-inclined description)			
09:40-12:00	Discussions + developing recommendations "where to drill"			
12:00-13:00	Lunch			
13:00-13:30	Concluding words, end of workshop			

Fig. 1. Meeting agenda

	<i>Surname</i>	<i>First name</i>	<i>Affiliation</i>
<b>Organisers</b>	Skyttä	Pietari	University of Turku (UTU)
	Beier	Christoph	University of Helsinki
	Virtasalo	Joonas	GTK
<b>Keynotes</b>	Salin	Evgenia	University of Turku
	Rotevatn	Atle	University of Bergen
	Korja	Annakaisa	University of Helsinki
	Kohonen	Jarmo	GTK
	Högdahl	Karin	Uppsala University
	Corti	Giacomo	IGG Florence
<b>Delegates</b>	Porturas	Francisco	Peruvian Geothermal Association
	Eklund	Olav	Åbo Akademi
	Nikkilä	Kaisa	Åbo Akademi
	Behrmann	Jan	Geomar
	Strand	Kari	University of Oulu
	Soesoo	Alvar	Taltech
	Bialas	Jörg	Geomar
	Schnabel	Michael	Federal Institute for Geosciences & Helmholtz Centre for Geosciences
	Malinowski	Michal	GTK
	Ojala	Antti	University of Turku
	Imana	Marcello	Copperstone Resources
	Lynch	Edward	SGU
	Engström	Jon	GTK
Heilimo	Esa	UTU	
<b>Young scientists</b>	Maciek	Jeż	Polish Academy of Sciences
	Piippo	Simo	Turun yliopisto
	Nordbäck	Nicklas	GTK/UTU

Green = remote attendance

Fig. 2. Meeting agenda

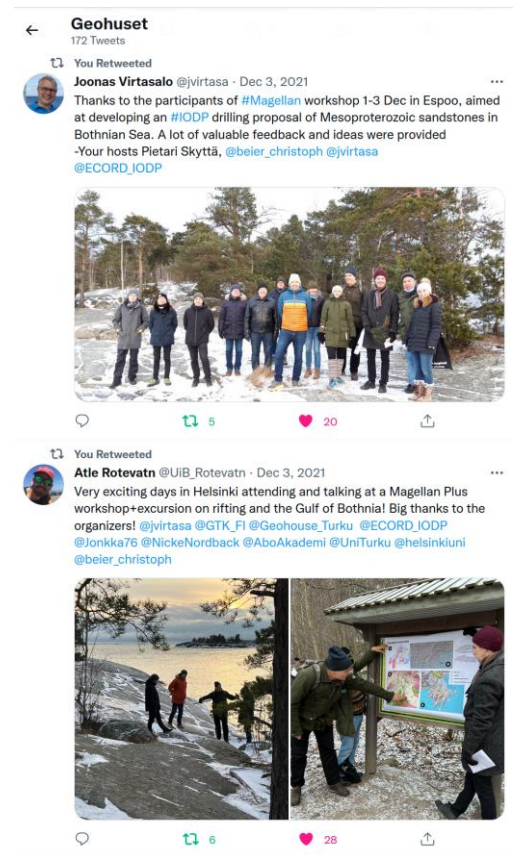


Fig. 3. Social media releases.

Table 1. Expenses by the type.

<b>Food and beverages</b>		<b>2419.0</b>
workshop dinner	1985.6	
ice-breaker	433.4	
<b>Sauna (by dinner)</b>		<b>1048.8</b>
<b>Daily allowances (P. Skyttä travel)</b>		<b>164</b>
<b>Travel and accommodation</b>		<b>3754.44</b>
Accommodation Töölö Towers	2908	
Breakfast Töölö Towers	240	
Bus & driver (for excursion)	427.24	
Bus tickets etc	179.2	
<b>Other (bags for delegates, 17 pcs)</b>		<b>83.75</b>
total		<b>7469.99</b>