

ESA Polar Science Collocation Meeting

Draft Preliminary Agenda (Virtual meeting)

15-17 September 2021

Objectives:

The ESA Polar Science Cluster involves a set of different ESA-funded scientific activities addressing different aspects of Polar research. Through this set of projects ESA aims at working hand by hand with the scientific community to:

- *Improve our observation capacity over Polar regions and contribute to develop the next generation of Polar observations from space;*
- *Enhance the basic scientific understanding of the different processes governing Polar changes and their regional and global impacts;*
- *Contributing to translate new knowledge and scientific results into actionable solutions for society.*

The ESA Polar Science Cluster is supported by a number of research opportunities and networking actions promoting collaborative research, and fostering European and international scientific collaboration, especially with EC funded activities within the context of the joint EC-ESA Earth System Science Initiative.

The purpose of this meeting is to review the latest developments and results of the different projects, present the new projects recently kicked off and discuss with you the potential scientific priorities for the future. In particular, we would like to review the results of the EC-ESA Polar Science Week and define with you a set of collective goals and a way forward for 2023+.

More information, results and the complete set of projects is provided in the dedicated web site (also see list of projects and contact points in the attached file below):

<https://eo4society.esa.int/communities/scientists/esa-polar-science-cluster>

Day 1 – 15th September 2021

(All times are CEST)

Welcome and setting the scene session

09:30 - ESA Welcome and Intro,
09:40 - EC RTD welcome,
09:50 – EU Polar Cluster,
10:00 - Cryosat status,
10:10 – ESA Polar Campaigns,
10:20 - Future Missions for Polar science,

Diego Fernandez and Ola Grabak
Ana-Maria Stan
Nicole Biebow and Elaina Ford
Tommaso Parrinello
Tania Casal and Dirk Schuettemeyer
Craig Donlon

10:30-10:45 Coffee break

Antarctica and the Southern Ocean:

10:45 - 4DAntarctica,
11:00 - DTE Antarctica,
11:15 – Polar+ Ice Shelves,
11:30 - CryoSat+ Antarctic ocean,
11:45 – SO Ice,
12:00 – ALBATROSS,
12:15 - SO Fresh,
12:30 – 13:00 fast reactions *(Open discussion, major comments, ideas, opportunities, points for the afternoon discussion).*

Noel Gourmelen
Noel Gourmelen
Anna Hogg
Steven Baker, Jean-Alexis Daguze
Anna Hogg
Mathilde Cancet
Rafael Catany

Lunch 13:00 – 14:30

Introduction to some relevant EC Activities:

14:30 – PROTECT,
14:45 - SO CHIC,
15:00 – TIPPACS,
15:15 – CriceS,
15:30 – 16:00 Fast reactions *(Open discussion, major comments, ideas, opportunities for collaboration, points for the afternoon discussion).*

Gael Durand
Alberto Naveira Garabato
Svein Østerhus
Risto Makkonen & Gunnar Spreen

16:00-16:30 Coffee break

16:30-17:30 Open Discussion: Antarctica and the Southern Ocean – Challenges and Opportunities

Day 2 – 16th September 2021

(All times are CEST)

Greenland and Arctic Ocean

09:30 - 4DGreenland,

09:45 - 3DEarth Greenland,

10:00 – Advances in S1 ice velocity - PHAB-IV project,

10:15 – Polar+ Surface Mass Balance,

10:30 – Sentinel 3 – Snow Albedo,

10:45 – Mountain Glaciers – Arctic caps,

Louise Sandberg Sørensen

Joerg Ebbing

John Peter Merryman Boncori and

Thomas Nagler

Malcolm McMillan

Jason Box

Noel Gourmelen

11:00 – 11:30 Coffee Break

11:30 – Polar+ Snow on sea ice,

11:45 – ARKTALAS,

12:00 - Arctic+ Salinity,

12:15 – DTE Ocean – Arctic case,

12:30 - 13:00 Fast reactions (Open discussion, major comments, ideas, opportunities, points for the afternoon discussion).

Michel Tsamados

Johnny Johannessen

Carolina Gabarro

Einar Olason & Bertrand Chapron

13:00-14:00 Lunch

Introduction to some relevant EC Activities:

14:00 – KEPLER,

14:15 - Arctic PASSION,

Nick Hughes

Mikko Strahlendorff

14:30-15:30 – Open Discussion: Greenland and Arctic Ocean – Challenges and Opportunities

Day 3 – 17th September 2021

(All times are CEST)

Other ESA relevant Polar activities

09:30 – CCI Polar ECVs and related activities, Anna Maria Trofaier
09:45 – ESA-NASA IMBIE , Andrew Shepherd
10:00 - Cryosphere Virtual Lab, Eirik Malnes
10:15- ESA support to polar operational activities and Polar TEP, Andreas Cziferszky,

10:30 - 10:45 - Coffee Break

Pan-Arctic, Mountain Glaciers and Alpine activities

10:45 – Cryosat+ Mountain Glaciers, Noel Gourmelen
11:00 - Alpine Glaciers, Frank Paul
11:15 - Alpine Snow , Thomas Nagler (10mins)
11:25 – SnowPEX. Thomas Nagler (10Mins)
11:35 – MethEO and AMPAC, Kimo Rautiainen and Johanna Tamminen
11:50 - EO4PAC and AMPAC, Annett Bartsch
12:05 – 12:20 Fast reactions and discussion.

12:20- 13:00 - Final Discussion – Next steps, working together, capitalising on results, maximising impact, boosting the EC-ESA Flagship action on Polar science.