

ESA Polar Science Collocation Meeting

28-30 June 2017

ESA-ESRIN

Day 1: 28th June

	Room A	Room B	Room C
9:00-10:30	Intro session		
10:30-11:00	Coffee Break		
11:00-12:30	Greenland & Antarctica		
12:30-13:30	Lunch		
13:30-15:45	Greenland & Antarctica		
15:45-16:15	Coffee Break		
16:15-17:30	Discussion: 4D Greenland & Antarctica		
17:30-19:00	Ice breaker		

Day 2: 29th June

	Room A	Room B	Room C
9:00-10:30	Sea Ice		
10:30-11:00	Coffee Break		
11:00-12:30	Discussion: Sea Ice	Discussion: Frozen soil and Permafrost	
12:30-13:30	Lunch		
13:30-15:45	Discussion: Glaciers	Snow	
15:45-16:15	Coffee Break		
16:15-17:30	Discussion: Ice Shelves	Discussion: Snow	
17:30-21:00	Dinner		

Day 3: 30th June

	Room A	Room B	Room C
9:00-10:30	Pan-Arctic/Polar Initiatives		
10:30-11:00	Coffee Break		
11:00-12:30	Future Polar Missions		
12:30-13:30	Lunch		
13:30-15:45	Final Open Discussion		

Day 1: 28th June

9:00-9:15	ESA welcome, D.	D. Fernandez	ESA
9:15-9:30	EC RTD	A. Gambardella	EC
9:30-9:45	ClIC	G. Krinner	ClIC
9:45-10:00	PolarNet	N. Biebow	AWI
10:00-10:15	PSTG	M. Drinkwater	ESA
10:15-10:30	Polar ESA Campaigns	T. Casal	ESA

10:30-11:00 Coffee Break

Greenland and Antractica

11:00-11:15	IMBIE2	Andrew Shepherd	U. Leeds
11:15-11:30	CCI Greenland	Rene Forsberg	DTU
11:30-11:45	CCI Antarctica	Andrew Shepherd	U. Leeds
11:45-12:00	Antarctic Peninsula MB	Anna Hogg	U. Leeds
12:00-12:15	SAMBA	Dana Floricioiu	DLR
12:15-12:30	CryoTop	Noel Gourmelen	U. Edinburg

12:30-13:30 Lunch

Greenland and Antractica 2

13:30-13:45	Glitter	Anna Hogg	U. Leeds
13:45-14:00	CryoSMOS	Giovanni Maceloni	IFA, CNR
14:00-14:15	REGINA	Ingo Sasgen	AWI
14:15-14:30	GOCE+ Antarctica	Jörg Ebbing	U. Kiel
14:30-14:45	PolarGAP	Fausto Ferraccioli	BAS

14:45-15:15 Coffee Break

15:15-17:15 Discussion: 4D Greenland and Antarctica

- Mass balance: what next?
- Grounding lines dynamics
- Antarctica bottom-up: Linking Lithosphere, GIA, Bedrock, Heat Fluxes, T profiles, sub-glacial lakes
- Surface mass balance
- Greenland/Arctic surface and subsurface hydrology
- Ice sheet models and predictions
- Communication/Education

17:15-19:00 Ice breaker

Day 2: 29th June

Room A: Sea Ice

9:00-9:15	Cryosat Developments	Andrew Shepherd, U. Leeds
9:15-9:30	CCI sea ice	Stein Sandven, NERSC
9:30-9:45	SMOS Ice	Lars Kaleschke, U. of Hamburg
9:45-10:00	SMOS+CryoSat	Robert Ricker, AWI
10:00-10:15	Snow over sea ice	Anna Bulczak, IsarSat
10:15-10:30	Sea Ice mass	Julienne Stroeve, UCL

10:30-11:00 Coffee Break

11:00-12:30 Break-up sessions:

Room A: Sea Ice discussion

- Retrievals, enhancements, opportunities
- Sea ice thickness on Antarctica/complex sea ice conditions
- Snow on sea ice
- ESA-NASA Arctic Snow budget Initiative??
- Sea Ice Mass Intercomparison
- Icesat-Cryosat Tandem opportunities
- New concepts and needs for science, technology and campaigns
- Communication/Education

Room B: Arctic Land: Frozen soil, Permafrost, Lakes

- SMOS Frost, Kimmo Rautiainen, FMI
- DUE Permafrost, Claude Duguay, U. of Waterloo
- Arctic Lake Ice, Cristina Surdu, ESA
- **Discussion**

12:30-13:30 Lunch

13:30-14:45 Break-up sessions:

Room A: Glaciers

- CryoTop MG, Noel Gourmelen, U. of Edinburg
- CCI Glaciers, Frank Paul, UZH
- **Discussion**

Room B: Snow

13:30-13:45	SnowPex	Thomas Nagler, ENVEO
13:45-14:00	SMOS Snow	Juha Lemmetyinen, FMI
14:00-14:15	S3 Albedo	Jason Box, GEUS
14:15-14:30	Snow Models	Arnaud Lecuyot, ESA
14:30-14:45	Snow mission concepts	Juha Lemmetyinen, FMI

14:45-15:15 Coffee Break

15:15-17:30

Break-up Sessions:

Room A: Ice Shelves

- Ice Shelves SMOS products, Lars Kaleschke, U. of Hamburg
- Ice shelves thickness and S1/S2 opportunities, Thomas Nagler, ENVEO
- **Discussion: Towards an ESA Ice Shelves initiative**

Room B: Snow Discussion

- Snow products: new opportunities
- SWE: state of the art and way forward
- Novel snow retrieval techniques
- New concepts and needs for science, technology and campaigns

17:30-19:00

Dinner

Day 3: 30th June

Pan-Arctic & Polar Activities

9:00-9:15	Contribution to YOPP	Thomas Kaminski, Inversion Lab
9:15-9:30	Arctic Fresh Water Fluxes	Thomas Nagler, ENVEO
9:30-9:45	Arctic Tides and Bathymetry	Mathilde Cancet, NOVELTIS
9:45-10:00	Polar TEP	Andrew H. Fleming, BAS

10:00-10:30 Discussion: Opportunities for pan-Arctic and Polar collaboration

10:30-11:00 Coffee Break

Future Polar Missions

11:00-11:15	POLARIS User Requirements	John Falkingham, IICWG
	Future missions for the polar regions in	
11:15-11:30	EOEP-5	Arnaud Lecuyot, ESA

11:30-12:30 Discussion: Future Polar Missions

12:30-13:30 Lunch

13:30-15:00 Summary and Final Open Discussion