

ARCTIC AND NORTHERN OCEANS FORUM

FINNISH METEOROLOGICAL INSTITUTE (FMI), HELSINKI

2 – 4 September 2019

This is a single-track workshop which allows for flexibility in the timing of sessions. The breaks for coffee and lunch are fixed by catering constraints. This Provisional Program may be amended in detail to accommodate invited speakers who have not been able to confirm their attendance. Speakers have a total time of 30-minutes to change the lectern, make the presentation and answer questions.

MONDAY 2 Sep 19	ACTIVITY	SPEAKER	PRESENTATION TITLE
1330 h	Message from Honorary Chair	Marina Ruggieri	
	History of ANOF and ASOF	Mal Heron	
	FMI perspective	Mikko Strahlendorff	
1400 h	Session 1a. Observation Technologies: <i>In situ</i> Observations: Chair Mal Heron		
1400 h	Invited Speaker	Bill Kirkwood	AUVs under ice.
1430 h	Contributed Paper	Jhon Hurtado	Submersible vehicle operated remotely for physical and chemical characterization of Arctic Pole "INIUT"
1500 h	Contributed Paper	Bin Cheng	Snow and ice thickness derived from thermistor string based mass balance buoys (SIMBA)
1530 h	Coffee Break		
1600 h	Invited Speaker	Andreas Marouchos	Autonomous observations in Extreme Environments: Polar navigation of an unmanned surface vehicle.
1630 h	Session 1b. Observation Technologies: Sea Ice. Chair: Andreas Marouchos		
1630 h	Contributed Paper	Pradeep Bobby	Modeling VHF scatter from FY and MY ridges.
1700 h	End of Day 1		

Tuesday 3 Sep 19	ACTIVITY	SPEAKER	PRESENTATION TITLE
0900 h	Session 1b. <i>continued</i>		
0900 h	Contributed paper	Juha Karvonen	Estimating Arctic sea ice properties by microwave remote sensing in high resolution
0930 h	Contributed Paper	Jaako Seppanen	Merged CS2 and SMOS sea ice thickness product and comparison to sonar sea ice draft measurements
1000 h	Contributed Paper	Jaako Seppanen	Merged CS2 and SMOS sea ice thickness product and comparison to sonar sea ice draft measurements
1030 h	Coffee Break		
1100 h	Session 1c. Observation Technologies: Remote Sensing. Chair: Marko Makynen		
1100 h	Contributed paper	Adriano Camps	FSSCat: Observing the polar regions with the Flexible Microwave Payload (FMPL) – 2, and validation plan in MOSAIC
1130 h	Contributed Paper	Eero Rinne	Overview and status of the Copernicus Polar Ice and Snow Mission CRISTAL.
1200 h	Lunch		
1300 h	Workshop: Chair: Mal Heron 1300 h Breakout Groups 1400 h Workshop Plenary: Moderator Mal Heron; speakers are the Group Leaders and the Group Note-takers (appointed by each Group).		Future needs for Observation Technologies <u>Breakout Group a.</u> In situ Observations: Leader Andreas Marouchos <u>Breakout Group b.</u> Sea ice: Leader: Leader Pradeep Bobby <u>Breakout Group c.</u> Remote Sensing: Leader: Rene Garello
1500 h	Coffee Break		
1530 h	Session 2: Applied Data Science for Arctic Ecosystems Under Change. Chair: Adriano Camps		
1530 h	Invited Paper	Juha Lemmetyinen	To be advised
1600 h	Contributed Paper	Andrea Marinoni	Unmixing feature sets in PolSAR images for enhanced understanding of Arctic scenarios

1630 h	Workshop Panel: Moderator Rene Garello	Andrea Marinoni, Yubao Qiu, Mikko Strahlendorff, Juha Lemmetyinen	Future needs for Applied Data Science for Arctic Ecosystems Under Change
1730 h	End of Day 2 Sessions		
Evening	Conference Dinner		
Wednesday 4 Sep19	ACTIVITY	SPEAKER	PRESENTATION TITLE
0900 h	Session 3: Sustaining Arctic Observations: Chair Bill Kirkwood		
0900 h	Invited Paper	Rene Garello	Sustaining Arctic Observations
0930 h	Invited Paper	Stein Sandven	INTAROS
1000 h	Coffee Break		
1030 h	Workshop Panel: Moderator Bill Kirkwood	Rene Garello, Andrea Marinoni, Andreas Marouchos, Stein Sandven	Future needs for sustained Arctic Observations
1130 h	Session 4: The Role of IEEE in the North and South Poles. Moderator: Adriano Camps	Rene Garello, Andreas Marouchos, Mal Heron	The Role of IEEE in the North and South Poles.
1230 h	End of Day 3 Sessions		
1230 h	End of Arctic and Northern Oceans Forum		