

Monday, 14 June 2021		Author
<b>13:30 - 15:05 CEST</b>	<b>Opening Session - Chaired by Tommaso Parrinello and Jerome Bouffard</b>	
13:30-13:35	Opening	Dr. T. Parrinello, CryoSat Mission Manager
13:35-13:45	ESA Welcome	Dr. T. Tolker-Nielsen, Acting D/EOP
13:45-14:05	The Importance of observing the Arctic for weather forecasting and climate monitoring	Dr. Florence Rabier, DG - ECMWF
14:05-14:25	The EU Space Programme for the Arctic	Michael Mann, EU Special Envoy for Arctic Matters
14:25-14:45	Ice sheets and sea level projections: challenges and opportunities	Dr. Sophie Nowicki, University of Buffalo
14:45-15:05	CryoSat-2 : a decade of polar altimetry	Prof. A. Shepherd, University of Leeds
<b>15:05 - 15:30</b>	<b>Coffee Break - Day 1 PM</b>	
<b>15:30 - 17:15 CEST</b>	<b>Sea ice #1: Thickness. Chairs: Sara Fleury, Henriette Skourup</b>	
15:30 - 15:55	Keynote: Sea ice in 3D: A decade of observations from CryoSat-2	Rachel Tilling
15:55 - 16:15	Advancements of Sea-Ice Thickness Climate Data Records by CryoSat-2	Stefan Hendricks
16:15 - 16:35	The Golden Era - Advances in Mapping Arctic Sea Ice Thickness by Combining CryoSat-2 and ICESat-2 Retrievals	Sinead Farrell
16:35 - 16:55	Dynamic and thermodynamic winter sea-ice growth in the Arctic	Robert Ricker
16:55 - 17:15	Winter Arctic Sea Ice Volume Budget Decomposition from Satellite Observations and Model Simulations over the CryoSat-2 period (2010-2020)	Michel Tsamados
<b>17:15 - 19:00 CEST</b>	<b>POSTER SESSION</b>	
	<b>POSTER LIST</b>	
<b>TOPIC</b>	<b>Sea Ice</b>	
10	A multi-epoch SARIN retracker suited for freeboard measurement	Pierre Fabry
11	Estimates of Arctic snow depth from ICESat-2 and CryoSat-2 freeboards	Ron Kwok
19	Sea Ice and Snow Interaction Revealed by Combined Retrieval of Sea Ice Thickness and Snow Depth with CryoSat-2 and SMOS	Shiming Xu
26	Sea Ice CCI+ - towards a 26 year time series of sea ice thickness from radar altimetry	Eero Rinne
45	The potential of Multi-Peak Retracking CryoSat-2 SARIn Waveforms over Arctic Sea Ice	Alessandro Di Bella
56	LeadS Detection with Fully-Focused SAR in Antarctica	Sergi Hernández
66	Comparing sea surface height anomalies from CryoSat-2 and ICESat-2 over the ice-covered oceans	Marco Bagnardi
72	Summer sea ice freeboard calculation using CryoSat-2	Geoffrey Dawson
101	Arctic NEMO. Observing and modelling the Arctic Ocean and Sea-Ice	Lars Stenseng
102	The impact of snow products on detecting trends in sea ice thickness during the CryoSat-2 era	Heidi Sallila
109	A decade of in situ observations between the North Pole and Fram Strait from the Ice-T (Ice Thickness) buoy: potential for satellite validation.	Frederic Vivier
115	Assimilating 2-day, Near-Real-Time CryoSat2 observations in the U.S. Navy Global Ocean Forecast System.	David Hebert
116	The Evolution of CryoSat2 Sea Ice Processing : Past, Present and Future.	David Brockley
117	Arctic Sea Ice Thickness and Sea Level Anomaly from CryoSat-2 and Physical Retracker	Sara Fleury
118	Winter Arctic Sea Ice Volume Budget Decomposition from Satellite Observations and Model Simulations over the CryoSat-2 period (2010-2020)	Michel Tsamados
119	Fully-Focused SAR Processing for Sea Ice Applications	Alejandro Egido
125	Dedicated Airborne Experiments to Validate Satellite Altimetry over Arctic Sea Ice: A Review	Sinead Louise Farrell
138	Can ice age be used to create a sea ice thickness proxy product?	Isolde Glissenaar

139	Exploring the role of the "Ice-Ocean governor" and mesoscale eddies in the equilibration of the Beaufort Gyre: lessons from observations.	Gianluca Meneghello
140	Sea Ice and snow thickness conditions during the 2018 North Greenland Polynya – A Study with CryoSat-2 and SMOS	Lu Zhou
143	A Bayesian approach towards daily pan-Arctic sea ice freeboard estimates from combined CryoSat-2 and Sentinel-3 satellite observations	William Gregory
144	Evaluation of CryoSat-2 sea-ice products in the light of the CS2/IS2 tandem phase opportunity	Antoine Laforge
146	Development of sea ice Risk Index Outcome in Barents and Kara seas derived from satellite altimetry and model reanalysis	Eero Rinne
151	Towards a Roadmap for Sea-Ice Thickness Product Inter-comparisons: Challenges and Opportunities	Renée Mie Fredensborg Hansen
152	Cryo2Ice Coincident Observations Explorer Demo	Martin Ewart
154	Towards long term sea-ice thickness series from altimetry over Antarctica	Florent Garnier

Tuesday, 15 June 2021		Author
09:00 - 10:40 CEST	<b>Sea ice #2: Snow/techniques. Chairs: Sinead Farrell, Robert Ricker</b>	
09:00 - 09:20	Incorporation of surface roughness and snow depth into CryoSat-2 sea ice thickness retrievals and assessment with ICESat-2	Nathan Kurtz
09:20 - 09:40	How do surface roughness and radar penetration affect pan-Arctic snow depths derived from multi-sensor altimetry? Physical waveform modelling applied to CryoSat-2 and AltiKa SARAL, with comparison to ICESat-2	Jack Landy
09:40 - 10:00	Assessment of Ka-Ku altimetric snow depth on sea ice product	Florent Garnier
10:00 - 10:20	The ESA CryoSat-2 Validation Experiment (CryoVEx) airborne sea ice freeboard campaigns in the Arctic and Antarctic	Henriette Skourup
10:20 - 10:40	Investigating Ku- and Ka-band radar penetration and scattering in an evolving snow pack during MOSAIC	Rosemary Willatt
10:40 - 11:00	<b>Coffee Break - Day 2 AM</b>	
11:00 - 12:45 CEST	<b>Ocean and Marine Gravity #1. Chairs: Mathilde Cancet, Michele Scagliola</b>	
11:00 - 11:25	Keynote: Ocean and Marine Gravity from Cryosat.	Ole Andersen
11:25 - 11:45	Coastal Altimetry from SARin CS2 data.	Pablo Garcia
11:45 - 12:05	Assessment of CryoSat-2 altimetry data using high-frequency radar for the study of surface coastal circulation	Roberto Mulero
12:05 - 12:25	How CryoSat changed altimetry forever	Walter Smith
12:25 - 12:45	On the Potential of Fully-Focused SAR Processing for Oceanography	Christopher Buchhaupt
12:45 - 14:00	<b>Lunch Break - Day 2</b>	
14:00 - 15:40 CEST	<b>Ocean and Marine Gravity #2. Chairs: Christine Gommenginger, Walter Smith</b>	
14:00 - 14:20	Improvement of the Bathymetry and Regional Tidal Modelling in the Arctic Ocean	Mathilde Cancet
14:20 - 14:40	Looking through Southern Ocean sea-ice: new insights into the ice-covered Southern Ocean circulation from multi-altimeter combination	Matthis Auger
14:40 - 15:00	Improved sea level from CryoSat-2 in the Polar Oceans	Stine Kildegaard Rose
15:00 - 15:20	Evaluation and scientific exploitation of CryoSat-2 ocean products for oceanographic studies	Chris Banks
15:20 - 15:40	Characterizing the Extent, Shape, and Location of the Beaufort Gyre in the Canadian Basin of the Arctic Ocean From Satellite Data Between 2003-2014	Camille Lique
15:40 - 16:00	<b>Coffee Break - Day 2 PM</b>	
16:00 - 17:45 CEST	<b>Greenland and Antarctica Ice Sheets #1. Chairs: Veit Helm, Ines Otosaka</b>	
16:00 - 16:25	keynote: The Greenland and Antarctic ice sheets	Louise Sandberg Sorensen
16:25 - 16:45	Increased variability in Greenland seasonal melting from CryoSat-2 altimetry	Thomas Slater
16:45 - 17:05	Greenland ice sheet mass balance from radar altimetry.	Sebastian Simonsen
17:05 - 17:25	CryoSat can provide peripheral mass loss, basin run-off and even estimates of firn compaction around Greenland	Laurence Gray
17:25 - 17:45	Changes in Northwest Greenland Ice Sheet Elevation and Mass	Inès Otosaka
17:45 - 19:00 CEST	<b>POSTER SESSION</b>	
	<b>POSTER LIST</b>	
<b>TOPIC</b>	<b>Ocean and Marine Gravity</b>	
32	Developments in SAR Altimetry over Coastal and Open Ocean: A retrospective of developments in SAR altimetry processing and the improvements achieved through the SAMOSA and CP40 projects	David Cotton
34	Improved Retrieval Methods for Sentinel-3 SAR Altimetry over Coastal and Open Ocean and recommendations for implementation: ESA SCOOP Project Results	David Cotton
42	CryoSat-2 significant wave height in the Arctic Ocean derived using a semi-analytical model of Synthetic Aperture Radar 2011-2019	Harold Heorton
47	Contributions to Arctic Sea Level Change in the era of CryoSat-2	Carsten Ludwigsen
50	Satellite Altimetry and In Situ Observations of sea level and ground displacement: Estimating Relative and Absolute Sea Level Rise at Ny-Ålesund	Francesco De Biasio
74	Multi-altimeter combination for sea level retrieval in the ice covered Arctic Ocean	Pierre Prandi
87	CryoSat-2's contribution to the complete sea level records from the Polar Oceans	Stine Kildegaard Rose
89	Mean sea surface model of Baltic region from CryoSat-2 and multi-mission satellites: Baltic+SEAL project	Adili Abulaitijiang
92	Preparing for the DTU2020 global mean sea surface model	Adili Abulaitijiang

93	Comparison of high-resolution gravity recovery methods using the two-step retracker	Shengjun Zhang
94	Inversion of marine gravity anomalies in Beibu Gulf by comparing CryoSat-2 LRM and SAR measurements	Shengjun Zhang
98	Bathymetry of the Arctic Ocean predicted from marine gravity --- contribution from CryoSat-2	Adili Abulaitijiang
103	10 years of Cryosat-2 in DUACS Sea Level products	Yannice Faugere
113	Sea level in the Mediterranean and German coasts from SAR CryoSat-2 altimetry, tide gauges and GPS.	Luciana Fenoglio

