Workshop on observations and analysis of sea-surface temperature and sea ice for NWP and Climate Applications

22 – 25 January 2018

Programme

Monday 22 January		
13:30-14:00	*Registration and coffee*	**Weather Room**
14:00-14:15	Welcome	Andrew Brown (ECMWF Director of Research)
14:15-14:45	Quantifying the thermodynamic state of the global ocean surface	Chris Merchant (University of Reading)
Session 1	**Overview of SST and sea ice observations**	**Chair: Magdalena Alonso Balmaseda**
14:45-15:15	Satellite Sea Surface Temperature – current and future observations at ESA	Craig Donlon (ESA)
15:15-15:45	Observations of sea-surface temperature made in situ: evolution, uncertainties and considerations on their use	Nick Rayner (Met Office)
15:45-16:15	*Coffee break*	
16:15-16:45	Satellite observations of sea ice concentration and drift	Leif Toudal Pedersen (Technical University of Denmark) Presented by Rasmus Tonboe (DMI)
16:45-17:15-	In-situ and airborne sea ice observations for better sea ice prediction and climate analysis	Christian Haas (AWI)
17:15-17:45	Future ESA satellite missions to observe the ocean and ice surface	Mark Drinkwater (ESA)
17:45-18:00	Poster presentations	
18:00-19:30	*Drinks reception and posters*	

Tuesday 23 January		
Session 2	**Processing chains: retrievals, gap filling and product delivery**	**Chair:** **Hans Hersbach**
09:00-09:30	Copernicus Sentinel-3 L1 to L4 SST processing chain and GHRSST perspectives	Anne O'Carrol (EUMETSAT)
09:30-10:00	From L1 to L2 SST: signal/errors and gaps	Hervé Roquet (Météo-France)
10:00-10:30	From L1 to L2 for sea ice concentration	Rasmus Tonboe (DMI)
10:30-11:00	*Coffee break*	
11:00-11:30	Sea ice charts and SAR for sea ice classification	Patrick Eriksson (FMI)
11:30-12:00	The Operational Sea Surface Temperature and Ice Analysis (OSTIA) system	Simon Good (Met Office)
Session 3	**Applications: defining the observational requirements**	**Chair:** **Tony McNally**
12:00-12:30	Climate reanalysis needs: Atmospheric perspective	Adrian Simmons (ECMWF)
12:30-13:00	Climate reanalysis and reforecast needs: An ocean perspective	Hao Zuo (ECMWF)
13:00-14:00	*Lunch break*	
14:00-14:30	NWP needs and gaps	Kristian Mogensen (ECMWF)
14:30-15:00	Use of Sea Surface Temperature and Sea Ice observations for the Copernicus Marine Service and its applications	Antonio Reppucci (Mercator-Ocean)
15:00-15:30	Ocean data assimilation systems in JMA and their representation of SST and sea ice fields	Yosuke Fujii (JMA)
15:30-16:00	*Coffee break*	
16:00-16:30	CERA-SAT: coupled reanalysis in the satellite-era	Dinand Schepers (ECMWF)
16:30	*Poster session*	*Weather Room*
Wednesday 24 January		
Session 4	**New methods: model and assimilation**	**Chair:** **Steffen Tietsche**
09:00-09:30	Assimilation of sea surface temperature data in the FOAM ocean forecasting system	Matthew Martin (Met Office)
09:30-10:00	Optimized assimilation of sea ice in an Earth system model and impacts for climate prediction	Madlen Kimmirtz (NERSC)
10:00-10:30	Assimilating SST with an atmospheric DA system	John Derber (NCEP) Presented by Santha Akella (NASA, GMAO)
10:30-11:00	*Coffee break*	**Lobby**
11:00-11:30	The Gulf Stream signature in sea surface temperature: observations and impact on the North Atlantic storm-track	Arnaud Czaja (Imperial College)
11:30-12:00	Observation operators for sea Ice thickness to L-band brightness temperature	Matthias Drusch (ESA)
12:00-12:30	Merged sea ice thickness product from complementary L-band and altimetry information	Stefan Hendricks (AWI)

12:30-13:00	Sea ice data assimilation for NWP and operational ice services	Mark Buehner (Environment Canada)
13:00-14:00	*Lunch break*	
14:00-15:30	Working groups	**Council Chamber, LCR, MR1**
15:30-16:00	*Coffee break*	
16:00-17:30	Working groups	**Council Chamber, LCR, MR1**
18:30	*Workshop dinner*	
Thursday 25 January		
09:00-10:30	Working groups	**Council Chamber, LCR, MR1**
10:30-11:00	*Coffee break*	
11:00-13:00	Working groups	**Council Chamber, LCR, MR1**
13:00-14:00	*Lunch break*	
14:00-15:00	Plenary session	**Council Chamber**