



NWP SAF Workshop on Satellite Observations of the Earth System Interfaces

Programme

Tuesday Agenda

Agenda time displays according to the selected time zone.

The selected timezone is Europe/London

13:30 to 14:00	Welcome Welcome to ECMWF - Andy Brown (ECMWF) <hr/> NWP SAF Welcome - Lothar Schuller (EUMETSAT NWP SAF) <hr/> Workshop Aims - Tony McNally (ECMWF)
14:00 to 15:30	Setting the scene I Chairs: Clara Draper & Patricia de Rosnay Land and ocean modelling - Sarah Keeley (ECMWF) Presentation slides <hr/> EUMETSAT's perspective on interface observations - Anne O'Carroll (EUMETSAT) Presentation slides <hr/> ESA's perspectives on interface observations - Filomena Catapano (ESA) Presentation slides
15:30 to 16:00	Coffee Break
16:00 to 17:30	Setting the scene II Overview of NWP perspectives on interface observations - Andrew Collard (NOAA) Presentation slides <hr/> Coupled DA for interface observations - Phil Browne (ECMWF) Presentation slides <hr/> XCV framework - Sebastien Massart (ECMWF) Presentation slides
17:30 to 19:00	Ice-breaker

Wednesday

Agenda

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09:00 to 10:30	Observation opportunities I Altimeters/scatterometer - Ad Stoffelen (KNMI) Presentation slides
	Direct assimilation of passive microwave brightness temperature data - Marina Duran Moro (MetNo) Presentation slides
	Land-surface ancillary observations - Emanuel Dutra (IPMA)
10:30 to 10:40	Group Photo
10:40 to 11:00	Coffee Break
11:00 to 11:30	Observation opportunities II Impact of ocean-surface observations with ocean data assimilation - Hao Zuo (ECMWF) Presentation slides
11:30 to 12:30	Forward modelling for interface observations I Chairs: Niels Bormann & Christoforos Tsamalis Surface emissivity modelling, including PARMIO and SURFEM - Catherine Prigent (CNRS, Observatoire de Paris) Presentation slides
	Snow modelling and new ISSI team on snow and ice - Melody Sandells (Northumbria Uni) Presentation slides
12:30 to 14:00	Lunch & poster viewing
14:00 to 15:30	Forward modelling for interface observations II IR emissivity modelling - Stuart Newman (MetO) Presentation slides

ML approaches to forward-modelling surface contributions - Iris de Gelis (Estellus, Observatoire de Paris)
[Presentation slides](#)

New observations for land assimilation (SIF) - Sebastien Garrigues (ECMWF)
[Presentation slides](#)

15:30 to 16:00

Coffee Break

16:00 to 17:30

Exploiting interface observations

Modelling microwave emissions from snow and sea ice to simultaneously retrieve surface and atmospheric variables using satellite data - Janna Rueckert (Uni Bremen)
[Presentation slides](#)

Satellite-Estimated Microwave Emissivity and Emission Temperature over the Arctic Sea Ice: An ANN-Based Algorithm - Eui-Jong Kang (SNU)
[Presentation slides](#)

Hybrid ML/DA approaches to assimilating interface observations - Alan Geer (ECMWF)
[Presentation slides](#)

Thursday

Agenda

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09:00 to 10:30	Earth-system DA and future perspectives Chairs: Joel Bedard & Angela Benedetti
	Ocean-skin temperature assimilation in a coupled system - Tracy Scanlon (ECMWF) Presentation slides
	Assimilation of scatterometer data in a coupled system - Giovanna De Chiara (ECMWF) Presentation slides
	Data driven Earth-system forecasts - Eulalie Boucher (ECMWF) Presentation slides
10:30 to 11:00	Coffee Break
11:00 to 12:00	Earth-system DA and future perspectives
	Land Surface DA at the Met Office - moving towards coupled DA - Cristina Charlton-Perez (Met Office) Presentation slides
	Coupled DA at MF - Nadia Fourrié (MF) Presentation slides
12:00 to 12:15	Introduction to WGs
12:15 to 14:00	Lunch & poster viewing
14:00 to 15:30	WGs Discussion
15:30 to 16:00	Coffee Break
16:00 to 17:30	WGs Discussion
18:00 to 20:00	Dinner

Friday Agenda

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09:00 to 10:30	WGs final discussion and summary
10:30 to 11:00	Coffee Break
11:00 to 12:30	WG reports and closing
	WG1 - Observation opportunities Chair: Nadia Fourrie (MF) Rapporteur: Peter Lean (ECMWF)
	WG2 - Forward operators Chair: Catherine Prigent (CNRS, Observatoire de Paris) Rapporteur: Angela Benedetti (ECMWF)
	WG3 - DA / Coupled DA Chair: Joel Bedard (Environment and Climate Change Canada (ECCC)) Rapporteur: Phil Browne (ECMWF)