



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

# Wednesday

## Agenda

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

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

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

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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](#)

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

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

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# Thursday

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

# Friday Agenda

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