



IESWG-2021

Seminar and Discussion Series

As COVID-19 has changed the outlook for rapidly convening a new [International Earth Surface Working Group](#) (IESWG) meeting, we have organized a seminar and discussion series. Three focus topics covered advances in (a) Soil moisture, River-discharge and Water cycle, (b) Vegetation and Land-Atmosphere fluxes, and (c) Snow and Ice and Cryosphere-Atmosphere interaction.



Each seminar had two keynote speakers from research and operational centre (representative of ongoing work in Australia, Europe, India, USA) followed by a plenary discussion. The seminars have been well attended and the presentation with notes from the discussions and the recordings are posted below.

In 2022 a IESWG Remote working group meeting will take place on the 5th/6th April 2022, announcement to follow.

Soil moisture, river-discharge and water cycle 18 Nov2021 07:00-08:30 UTC.		
Introduction to the IESWG seminar topic	Ben Ruston & Gianpaolo Balsamo	IESWG Chairs
Transitioning towards a seamless hydrological modelling strategy at the Australian Bureau of Meteorology  IESWG_ta...1118.pdf	Elisabetta Carrara & Christoph Rudiger	BOM - Australia
Initialization of Soil Moisture in Numerical Weather Prediction  John_Soi...2021.pdf	John P. George	NCMRWF - India
Plenary Session discussion https://docs.google.com/document/d/1wk8uBzC-xaFRcuVgoZXnieaBCmBp7xTsN3JlXlnd50/edit?usp=sharing		

Vegetation and land-atmosphere fluxes 21 October 2021 - 13:00-14:30 BST		
Introduction the IESWG seminar topic	Ben Ruston & Gianpaolo Balsamo	IESWG Chairs

Exploring the relation of temperature forecast performance to climate, circulation, soil and vegetation variables	Melissa Ruiz	BGC MPI-Jena
 2021-10-2...minar.pdf		
Assimilation of satellite retrieved land surface temperature, and future plans at Météo France for Earth surface assimilation	Camille Birman	Météo-France
 presenta...1_v2.pdf		
Plenary Session discussion https://docs.google.com/document/d/1kECVV3hZazBr-KBCjOaLftx2XJ9BAy7T1a2jgA4lly4/edit?usp=sharing Announcement of QJRMS Special Collection on Earth System Coupled Assimilation led by Patricia De Rosnay et al https://rmets.onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1477-870X.coupled-assimilation		

Snow ice and cryosphere-atmosphere interaction 23 September 2021 - 13:00-14:30 BST		
Introduction to the IESWG and the 2021 seminar series	Ben Ruston & Gianpaolo Balsamo	IESWG Chairs
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Multi-layer snow modelling and cryosphere-atmosphere interactions in the ECMWF Integrated Forecasting System	Gabriele Arduini	ECMWF
 Arduini_I...P2021.pdf		

Sea Ice Assimilation in Navy Modeling Systems

Richard Allard

NRL - U.S.



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Plenary Session discussion

<https://docs.google.com/document/d/1etcXmNa1Em249056ictOXqdeCWAjJpaXJAlarAHxsVI/edit?usp=sharing>