

COSIMA 2020 e-Workshop

(<http://cosima.org.au/index.php/meetings/cosima-v-workshop/>)

Updated 13 May

This Workshop program includes four sessions in each Thursday of May (7, 14, 21,28). Each talk is given **12 minutes** plus another **3 minutes for Q&A**. There will be 15 minutes at the end of each session for group discussion.

Dial-in information can be found in the end. Presentation slides and videos for finished sessions can be found in the workshop website.

Thursday 7 May 10am-12pm

Session 1: General updates on model development (Chair - Xuebin Zhang)

Andy Hogg: Future COSIMA directions

Andrew Kiss: ACCESS-OM2 update

Kewei Lyu: ACCESS-OM2 contribution to ocean-only FAFMIP

Paul Sandery: Update on the development of an ocean-sea-ice DA system using ACCESS-OM2-01

Terry O’Kane: The CSIRO Climate re-Analysis Forecast Ensemble dataset: 96 climate state estimates spanning 1960-present

Vassili Kitsios: Ensemble transform Kalman filter parameter estimation of ocean optical properties for reduced bias in a coupled GCM

Matt Chamberlain: ACCESS-ESM1.5 ocean biogeochemical climate change projections.

Thursday 14 May 10am-12pm

Session 2: Ocean-ice-wave interactions (Chair – Veronica Tamsitt)

Annie Foppert: observations of AABW properties in the Australian Antarctic Basin

Andreas Klocker: Ocean-ice interaction in the subpolar Southern Ocean generates the ocean's internal pycnocline

Will Hobbs: OM2 simulation of the 2016 extreme Antarctic sea ice loss

Siobhan O’Farrell: Arctic and Antarctic sea ice results in CMIP6

Alberto Alberello: Wave-ice interactions and effects on trends in marginal ice zone extent

Marzieh H. Derkani: Waves and surface current observations during the Antarctic Circumnavigation expedition

Isabela de Souza Cabral: Extreme winds and waves in the Arctic

Thursday 21 May 10am-12pm

Session 3: Model applications (Chair – Kewei Lyu)

Kial Stewart: Southern Ocean response to extreme SAM conditions

Qian Li: Zonally asymmetric response of surface Southern Ocean to wind and thermal forcing

Matthew England: Role of wind variations in controlling ocean warming south of Australia

Erik Behrens: Seasonal and interannual variability of the Subtropical Front in the New Zealand region

Veronica Tamsitt: Lagrangian pathways of Circumpolar Deep Water on the Antarctic continental shelf

Fabio Boeira Dias: Ocean heat storage driven by redistribution of heat in response to ocean circulation changes

Yi Jin: Regional ocean downscaling in Asian marginal seas

Thursday 28 May 10am-12pm

Session 4: Process-based analysis (Chair - Annie Foppert)

Stephen Griffies: A conceptual tutorial on vertical Lagrangian remapping

Ryan Holmes: Another update on numerical mixing in the ACCESS-OM2 models

Callum Shakespeare: Lagrangian Filtering: a novel method for identifying internal waves in high-resolution model output

Jemima Rama: The reflection of near inertial internal waves

Maurice Huguenin: The Role of Diabatic Processes in Driving Ocean Heat Content Changes

Abhishek Savita: What drives the Ocean's Super Residual Circulation?

Julia Neme: Preliminary analysis of the Ross and Weddell Gyres in ACCESS-OM2

Scheduled Zoom meeting for COSIMA Workshop
Time: **This is a recurring meeting Meet anytime**

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