

Program

The conference will be held **in person** and via Zoom (ID: 872 0976 1041, PW: 000000)

Speakers are encouraged to leave 5 minutes for questions at the end of their talks.

Monday 4th July 2022

0950 Welcome

Session 1: Turbulence

1000 [Annie Foppert](#) (University of Tasmania): Deep Argo reveals bottom water properties and pathways in the Australian Antarctic Basin

1045 [Helen Phillips](#) (University of Tasmania): Observations of diapycnal mixing and isopycnal stirring in the Antarctic Circumpolar Current

Morning tea

1150 [Madi Rosevear](#) (University of Western Australia): Turbulent processes in the ice shelf-ocean boundary layer and beyond

1215 [Andy Hogg](#) (Australian National University): Do we know what Southern Ocean Eddies are doing, and do we really care?

1245 Lunch

1400 Discussion

Session 2: Cryosphere

1440 [Craig McConnochie](#) (University of Canterbury, New Zealand): Subglacial discharge, suspended sediment, and melting parameterisations

1505 [Fabien Montiel](#) (University of Otago, New Zealand): Exploring emergent wave and ice dynamics in the marginal ice zone

1530 Afternoon tea

1555 [Noa Kraitzman](#) (Australian National University): Brine inclusions in first-year sea ice

1620 [Jordan Pitt](#) (University of Adelaide): Modelling flexure of ice shelves in response to ocean waves

1645 Discussion

1715 Close

1830 Conference dinner

Tuesday 5th July 2022

Session 3: Circulation

0830 [Adele Morrison](#) (Australian National University): Sensitivity of Antarctic shelf waters and the abyssal overturning to wind and meltwater forcing

0915 [Xihan Zhang](#) (University of Tasmania): A theory of standing meanders of the Antarctic Circumpolar Current and their response to wind

0940 [Paul Spence](#) (University of Tasmania): Interannual basal ice shelf melt in the Amundsen Sea linked to shifting coastal winds

1005 Morning tea and poster session

1100 [Taimoor Sohail](#) (University of New South Wales): Water-mass transformations in the Southern Ocean: A modelling and observational perspective

1125 [Kial Stewart](#) (Australian National University): Eddy-Lee Wave Interactions in the Large Rotating Annulus

1150 Discussion

1220 Lunch

Session 4: Internal waves

1320 [Matt Rayson](#) (University of Western Australia): Some contrasting aspects of the internal wave dynamics in the Southern Ocean versus lower latitude regions

1405 [Amelie Meyer](#) (University of Tasmania): From the Arctic to the Antarctic: internal waves and mixing under sea ice

1430 [Jemima Rama](#) (Australian National University): The identification and propagation of wind generated near-inertial waves in strong background flows

1455 Discussion

1525 Close