

IACS-IAPSO Joint Commission on Ice-Ocean Interactions: Annual Report 2022

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Secretary: Sue Cook, University of Tasmania, Australia

The Joint Commission on Ice-Ocean Interactions (JCIOI) between IACS and IAPSO was established in January 2021 and aims to address knowledge gaps in ice-ocean interactions by globally coordinating and engaging in research and development related to understanding, observing and modelling ice-ocean interactions. This includes research under ice shelves, at the ice-ocean front in tidewater glaciers, and at the sea surface in the marginal ice zone.

Activities that have taken place in 2022 include:

- Approval of the JCIOI Terms of Reference by the IACS and IAPSO bureaus
- Election of the remaining officer positions (vice-chairs and secretary)
- Regular committee meetings throughout the year
- Launched a website (<https://sites.google.com/view/jcioi/home>) and Twitter account (@JCIOI1)
- Planning for an online workshop in October 2022 (further details below)

Online workshop on ice-ocean interactions: 17-19 October 2022

The workshop aims to draw together researchers interested in the processes that govern ocean-driven melt of glaciers and ice sheets across a range of locations and timescales, allowing them to share knowledge across research areas and identify critical knowledge gaps. The workshop will address four key science themes:

1. The physics of the ice-ocean boundary
2. The role of glacial melt in the wider ocean
3. The impact of ocean-driven melt on glacier and ice sheet mass balance
4. New and emerging technologies for studying ice-ocean interaction

The workshop will be entirely online, with a mixture of keynote presentations and breakout sessions spread over a broad schedule to facilitate interactions across time zones.