

2025 GIA Workshop: Advancing Models and Geodetic Constraints

The objective of the proposed project is to host a workshop on the topics of glacial isostatic adjustment (GIA), ice sheets, and sea-level change at the Institute of Ocean Sciences (IOS), located in Sidney, British Columbia, Canada, an area previously glaciated, from 2-6 June 2025. The workshop will bring together researchers of all career stages to discuss recent advances in the observations, analysis and modelling of GIA. As GIA is essential for informing global projections of future sea-level, the complex and interdisciplinary nature of GIA demands a collaborative approach and intellectual input from a broad range of disciplines. The proposed workshop aims to provide an opportunity for the exchange of ideas, data, and information necessary to create new knowledge in the field. We will invite researchers from various disciplines (e.g., geodesy, cryospheric science, seismology, geodynamics, geology) to attend the workshop with the goal of knowledge transfer and to foster networking between experts of the various disciplines to develop future international cross-disciplinary Earth system research within these topics. The 2025 workshop is a continuation of an existing and very successful workshop series, which has an established reputation of attracting international participation and providing excellent advancement, networking, and collaboration opportunities for Early Career Researchers (ECRs), who have comprised approximately 50-60% of attendees in the past years. Funding in the amount of \$20,000 USD from IUGG will be targeted for providing travel support to early career researchers, with a focus on balancing gender and promoting scientists from developing countries.