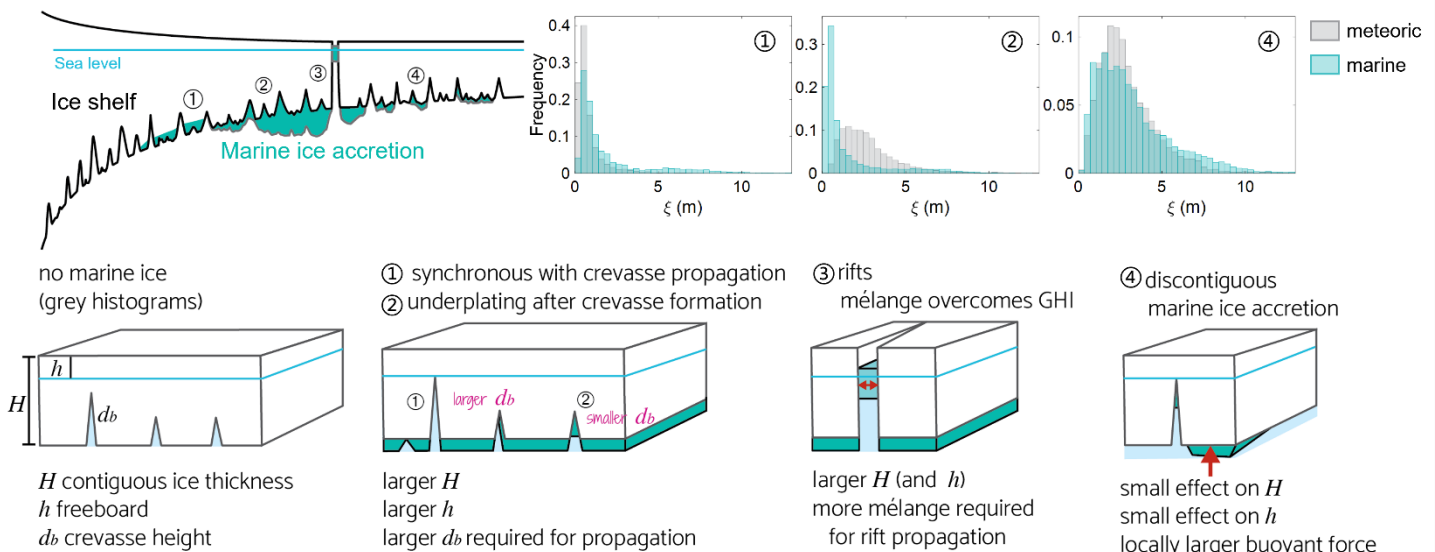


Te Kura Kairūri School of Surveying Lunchtime Seminar Series



Role of marine ice in the basal morphology and stability of the Amery Ice Shelf

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School of Surveying, University of Otago

Marine ice, forming when ocean water freezes onto the base of an ice shelf, plays a critical role in modulating the basal morphology and mechanical stability of the ice shelf. In this work, we investigate the Amery Ice Shelf to assess how marine ice modifies the shape of the ice base. We also examine how these changes may influence the potential of fracture propagation. Our findings highlight the role of marine ice in shaping basal roughness, altering stress fields, and thereby influencing the structural stability of the ice shelf.



Thursday 28th August 2025 (12pm – 1pm)

L1 Lecture Theatre | School of Surveying, 310 Castle Street

OR Join remotely: <https://otago.zoom.us/> (ID: 979 1434 6880, P/W: 310310)