

Snow and Ice Research Group – New Zealand: Monthly video seminar

Grounding line detection and ice discharge in Antarctica measured by remote sensing

Dr Wolfgang Rack, University of Canterbury

The mass balance of the grounded Antarctic ice sheet or individual catchment basins may be measured by weighing the total net accumulation in the interior of the continent with the total net loss at the perimeter. The ice discharge can be derived by combining ice flow with ice thickness, the latter is however only known at a few places. As large parts of the Antarctic coastline consist of floating ice shelves, the ice thickness may be derived from satellites using surface elevation measurements of the ice freeboard. This requires knowledge on the grounding line location, and how the grounding zone manifests itself in the various satellite data sets. This presentation illustrates the detection of the grounding line and the related ice thickness as part of the IPY ASAIID (Antarctic Surface Accumulation and Ice Discharge) project and exemplifies the measurement of ice discharge.

Wednesday 7 October 2009, 1pm-1:50pm

All interested are welcome to attend.

Video meetings are held every month over the Access Grid. Video rooms are sited at most universities. The locations of the video conference rooms for each campus are:

Massey: Room 4.40, Social Sciences Tower, Massey University, Palmerston North.

Auckland: Room 429, SGGES (The School of Geography, Geology and Environmental Science), University of Auckland, Auckland.

Canterbury: Room 164, Level 1, Geography-Psychology Building, Canterbury University, Christchurch

Otago: Teaching Facilities South West corner, Information Services Building

Victoria: Library RB106



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