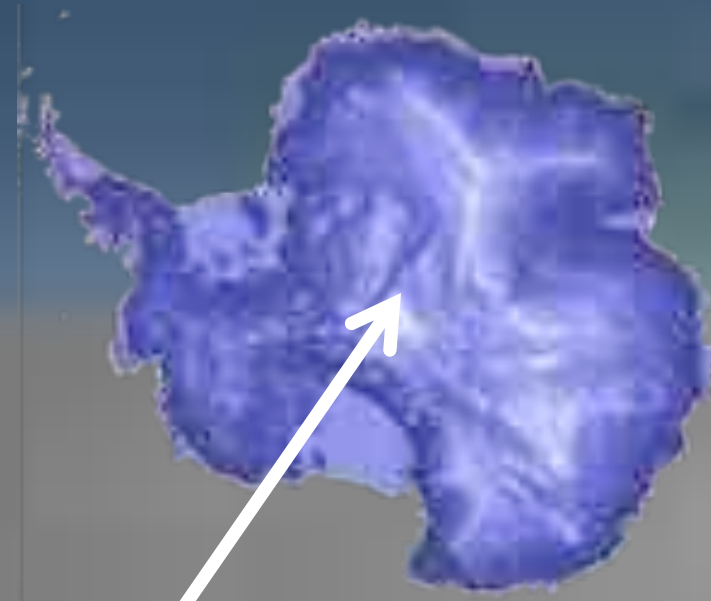


Extreme International Research: Astrophysics on an Ice Breaker and at the South Pole Jim Madsen for the IceCube Collaboration¹

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¹ <http://icecube.wisc.edu/>

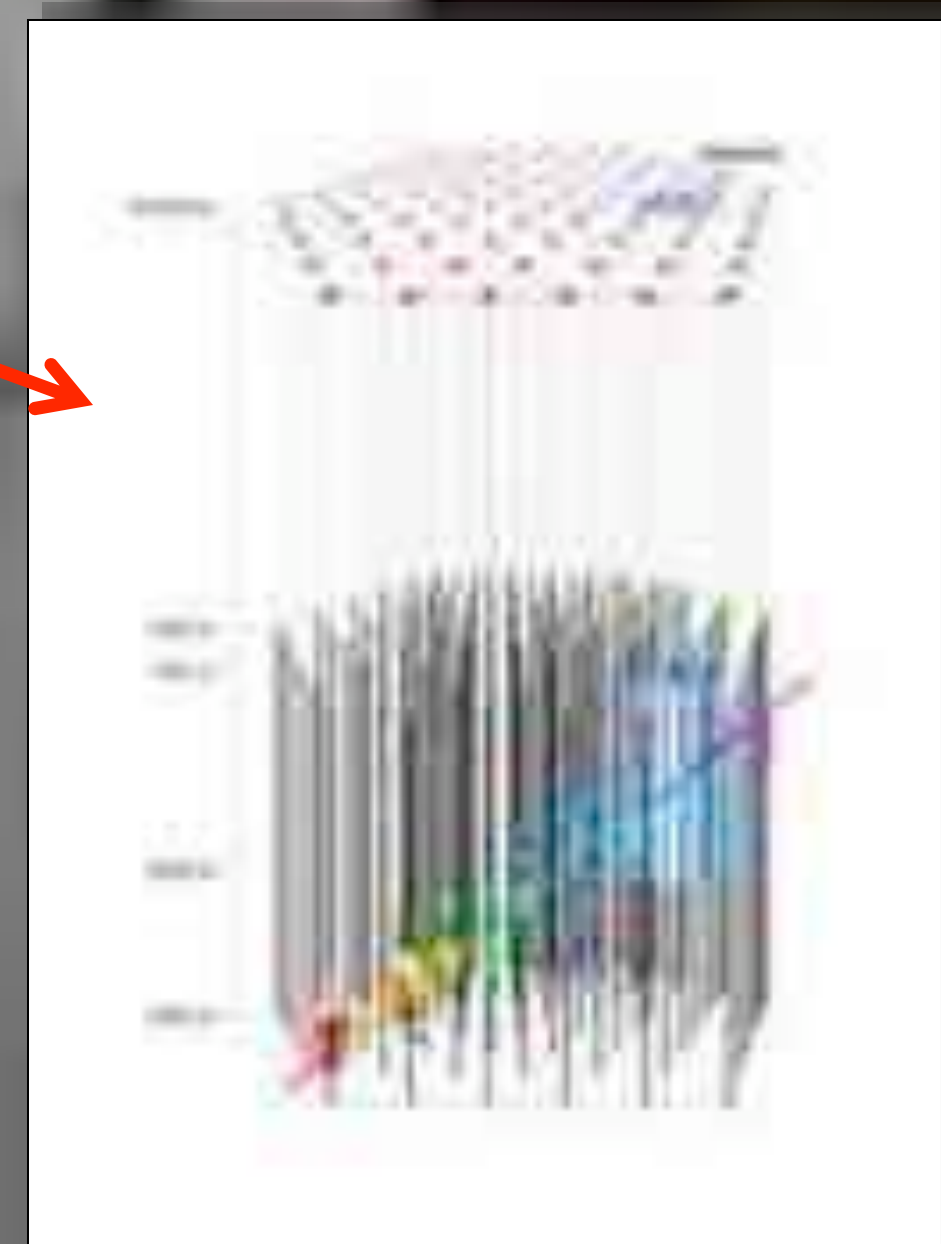


South Pole

IceCube

Abstract

IceCube is an international collaboration of 34 institutions building a new type of telescope at the South Pole. Light sensors are embedded in the ice at depths between 1450 and 2450 meters detect particles from outer space. A companion array IceTop is located on the surface. UWRF has provided IceCube research experiences for more than 20 undergraduate students. This poster focuses on the 10 students who worked with international partners.



Student Research

- Over the last ten years, two UWRF undergraduates (^aJackie Meyer 2003 and ^bJonathan Eisch 2003, 2005) have worked at the South Pole.
- In the 2009-10 austral summer, two UWRF students (^cKyle Jero and ^dDrew Anderson) and one two-year college student (^eSamantha Jakel), did IceCube related research on the icebreaker Oden as it cruised from Sweden to Antarctica and back to Chile.
- Five UWRF students (Kyle Jero, Jessica Gravesen - 2008, Michael Fitzl, Forest Kirschbaum-2009, Amanda Steck-2010) and one two-year college student (Mary Murphy-2010) spent the summer doing IceCube research at Stockholm University.

Key Senior Personnel

UWRF: Jim Madsen, Glenn Spiczak, Tareq AbuZayyad, and Alessio Tamburro
University of Delaware: Paul Evenson and Serap Tilav
Stockholm University: Per Olof Hulth

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