

ABSTRACT FINAL ID: C42A-01;

TITLE: Sea-level projections from the SeaRISE initiative

SESSION TYPE: Oral

SESSION TITLE: C42A. Cryospheric Contribution to Sea Level Rise: Current Estimates and Projections I

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Title of Team: The SeaRISE Team

ABSTRACT BODY: SeaRISE (Sea-level Response to Ice Sheet Evolution) is a community organized modeling effort, whose goal is to inform the fifth IPCC of the potential sea-level contribution from the Greenland and Antarctic ice sheets in the 21st and 22nd century. SeaRISE seeks to determine the most likely ice sheet response to imposed climatic forcing by initializing an ensemble of models with common datasets and applying the same forcing to each model. Sensitivity experiments were designed to quantify the sea-level rise associated with a change in: 1) surface mass balance, 2) basal lubrication, and 3) ocean induced basal melt. The range of responses, resulting from the multi-model approach, is interpreted as a proxy of uncertainty in our sea-level projections. http://websrv.cs.umt.edu/isis/index.php/SeaRISE_Assessment

KEYWORDS: [0726] CRYOSPHERE / Ice sheets, [0798] CRYOSPHERE / Modeling, [0700] CRYOSPHERE, [0728] CRYOSPHERE / Ice shelves.

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