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Abstract

The Arctic Drone Event 2018

Event Dates: 09/17/18 – 09/20/18

Location: The University Center in Svalbard (UNIS), Longyearbyen, Svalbard, Norway

An overview of recent NASA Airborne Science projects in the Arctic using manned and unmanned aircraft

As NASA prepares to launch ICESAT-II there are significant efforts underway to plan for aircraft under-flights to calibrate the onboard lasers and to validate data products. This presentation will begin with an overview of recent airborne science missions including Operation Ice Bridge that have focused observations on the arctic. This will be followed by results from recent NASA sponsored unmanned aircraft missions and a discussion how these new observing technologies can contribute to future research in the Arctic. Information on recent icing wind tunnel testing and comparisons with icing prediction models will also be shared leading to discussions on specific challenges in adapting systems to harsh arctic conditions.