

Wednesday, January 19

Meeting Rooms: W120A and W120B in Building 34, H120 in Bldg 33 (see maps on last page)
The meeting will begin with a plenary session in Rooms W120A and B, then break into two parallel workshops, PARCA and OIB Sea Ice observations (national /international):

Plenary

8:30-8:40: welcome to Goddard: Thorsten Markus

8:40-8:50: Headquarters perspective on PARCA (Tom Wagner)

8:50-9:10: Summary of IceBridge Greenland accomplishments and flightlines

Workshop-1: Sea Ice Thickness Observations (Room H120 in Building 33)

Objective: Coordination of Arctic sea ice thickness observations scheduled for March/April 2011

0930: Welcome

0935: Workshop objectives (Richter-Menge)

0945: Identify opportunities for coordination (All)

- IceBridge
- ICEX2011
- CryoVEX
- PAMARCMiP 2011
- Others?

1000: Round the room: Brief summaries of current and planned work
(10 minutes each...strict!)

- Hendricks (via Skype), Laxon, Farrell/Kurtz, McAdoo/Connors, Gardner/Brozena, Richter-Menge, Lindsay, others

1130: Identify logistic constraints (All)

- Location
- Timing
- Instrument

1230: LUNCH

1300: Develop coordinated measurement plan (All)

1500: Tie coordinated plan to priority OIB flight lines

1630: Conclude

1730: **Party, dinner at Goddard Recreational Center**

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Workshop-2: PARCA (Room W120A and W120B)

Presentation plan; 10 min per talk, 30 talks (convenors: Eric Rignot/Tom Neumann)

0915-0920: **Greetings:** (Rignot/Neumann)

0920-1030: **Climate field measurements** (7)

Konrad Steffen	Greenland Climate
Marco Tedesco	Satellite data, modeling tools and 2010 fieldwork activities
Alberto Behar	Latest Greenland Polar Instrumentation
Mark Fahnestock	Observing outlet glacier - fjord interactions
Matt Hoffman	Subglacial controls on GrIS marginal acceleration
Rick Forster	SE Greenland IS accumulation rates from cores, GPR, IceBridge
Doug MacAyeal, Mac Cathles, Kristopher Darnell:	Lake ogives in Greenland.

1050-1240: **Airborne Measurements** (11)

Prasad Gogineni	CRISIS plans for measurements in southern Greenland
Carl Leuschen et al.	Overview of radar instrumentation for OIB
John Paden et al.	Overview of processing and Results over outlet glaciers.
John Sonntag	Elevation and volume changes of Midgardgletscher, Greenland
Bill Krabill	ATM measurements in Greenland 2009-2010
Michelle Hofton	LVIS mapping of the cryosphere
Robin Bell	Jakobshavn basal conditions
Jim Cochran	Fjord geometry with gravity in Greenland.
Jeremie Mouginot	WISE HF radar: 2008-2009-2010 results.
Chris Larsen	Alaska Icebridge: Achievements and future plans
Anthony Arendt	Interpolation methods for dh/dt on Jakobshavn Glacier

1240 - 1350: LUNCH

1350-1450: **Satellite Measurements** (6)

Jay Zwally	Greenland Mass Balance from ICESat
Ian Joughin	Greenland Ice Mapping Project
Isabella Velicogna	GRACE monitoring of Greenland mass balance.
Scott Luthcke	Alaska and Greenland land ice signals and errors from GRACE
Dana Floricioiu	TerraSAR-X/Tandem X results.
Ian Howat	Sub-annual variations in speed, thickness, discharge of glaciers

1510-1610: **Modeling and data assimilation** (6)

Olga Sergienko	Greenland lakes.
Eric Larour	Inverse control methods on Greenland.
Eric Rignot	Ice-ocean interactions in Greenland.
Helene Seroussi	Ice flow modeling of 79N glacier.
Weili Wang	Modeling Inland Propagation of Dynamic Changes on Greenland
Mathieu Morlighem	Greenland balanced ice thickness

1620-1700: **Greenland 2011 field activities:** Plans and coordination

1730: **Adjourn:** party, dinner at Goddard Recreational Center

IceBridge Agenda, Thursday, January 20, 2011 (W120A and W120B in Building 34)

0830-0835: Introduction to Operation IceBridge (OIB), Michael Studinger

0835-0850: Summary of Wednesday's sea ice workshop, Jackie Richter-Menge

0850-1200: **Interaction between OIB and International Programs** (11 speakers, 12 min talks)

- Seelye Martin: welcome
- Jon Bamber: Development of a new, multi-resolution bedrock elevation map of the Greenland ice sheet
- Julian Dowdeswell: Airborne geophysical investigations of basal conditions at flow transitions of outlet glaciers on the Greenland Ice Sheet
- Jørgen Dall: P-band and VHF ice sounding of the Greenland ice sheet
- Nick Barrand: Arctic glaciology relevant to Operation IceBridge being undertaken at the British Antarctic Survey and within the EU Ice2Sea project
- Duncan Wingham: Cross calibrating multiple satellite altimetry missions with air and ground observations
- Rene Forsberg: CryoSat 2011 validation campaign: airborne lidar and Ku-Band radar over icesheets and sea ice in the Greenland-Svalbard-Ellesmere region (attnd Thurs only)
- Seymour Laxon: CryoSat measurements over Arctic sea ice - uncertainties and validation requirements
- Heinz Miller: TBA
- Malcolm Davidson: TBA
- Tania Casal, ESA: The ESA CryoVEx 2011 Campaign: an overview
- Dana Floricioiu: DLR activities in Antarctica

1200-1300: lunch

1300: Science Team Progress (2 min, one vu-graph summary from each team member)

1330: CryoSat-2 and IceBridge (Wingham and Davidson)

- How can IceBridge instruments and flight lines benefit the scientific analysis of CryoSat-2 Data?
- How can IceBridge data help tie together ICESat 1/2 and CryoSat-2 science?
- How can we incorporate CryoSat-2 project needs into a decision matrix for IceBridge flight planning and the instrument suite selection?

1400: Data Set Status from Arctic and Antarctic 2010 (POC)

1430: Instrument and platform configurations for Arctic 2011

- Science team requests for any configuration changes

1500: Presentation on the status of IceBridge Arctic flight plans (John Sonntag)

IceBridge Science Team Executive Session (by invitation only)

1600: Review mandate and action items from the previous months of work (team leads)

1610: Discussion/review of current progress on Science definition document (we need a POC)

1620: Discussion/review of current progress on Level-1 requirements (POC)

1630: Discussion/review of mission continuity/sensor comparison plans (POC)

1645: In the context of what we have learned and the current documentation, are there any glaring blunders in the to-date acquisition plans (Science Team Leads)?

1720: Review planned agenda for Friday (Science Team Leads)

1730: Adjourn

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Friday, January 21: IceBridge Science Team Executive Session, by invitation only

0845: Review day's agenda and any other matters (Science team leads)

0900: Review logistical schedule for Arctic Deployments and any other logistical issues that have cropped up (Project)

0915: Begin a sweep of the flight lines by objectives, lead instruments, priorities, duration, consistency with science requirements, location, coverage, etc.

1030: Break

1045: more sweeping!

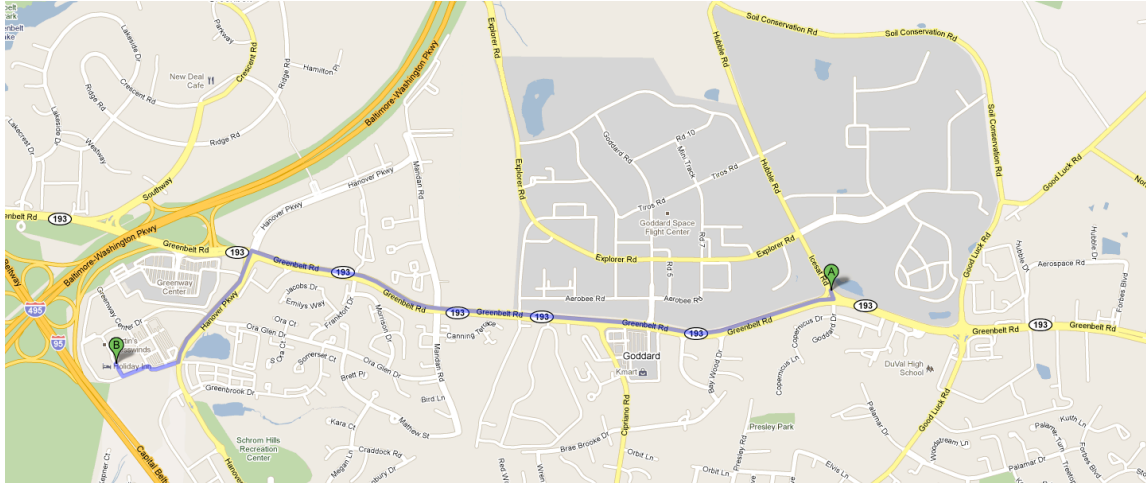
1200: lunch

1300: Review tabulated list of flight lines and priorities

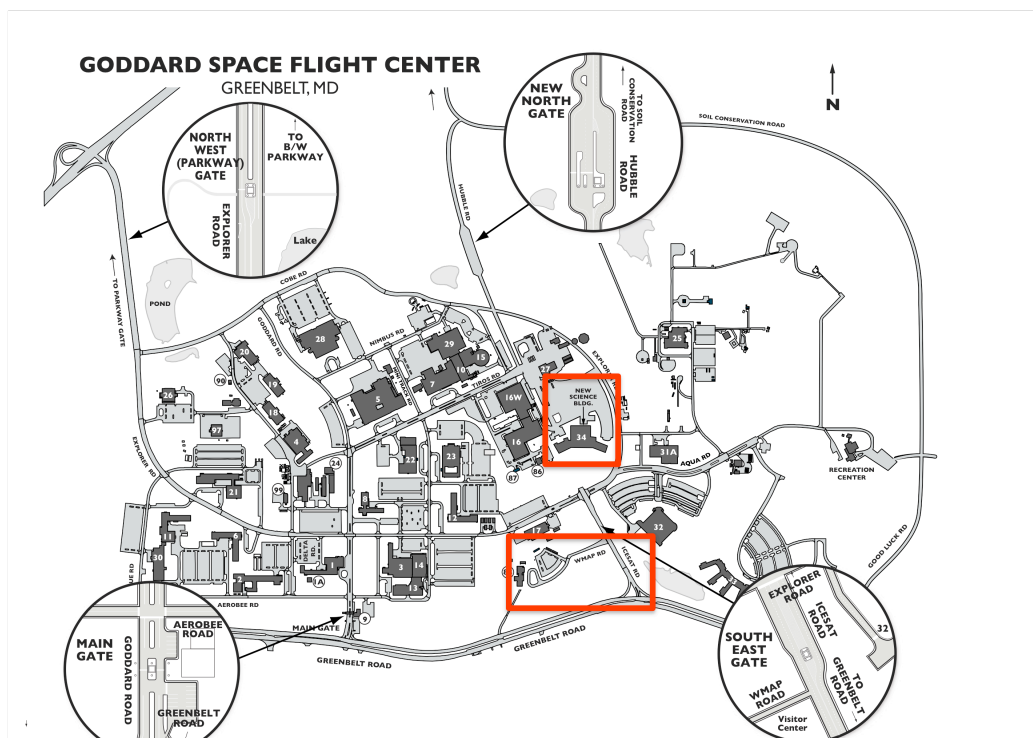
1330: Summary of Action items

1400: Adjourn

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From the hotel (B), proceed NE on Hanover Parkway to Greenbelt Road (MD 193). Turn right onto Greenbelt Road and head east for ~ 2 miles to NASA Goddard Space Flight Center (A).



IMPORTANT: The main gate some of you may have used off Greenbelt Road is closed for renovations, so please enter via ICESat road (lower red rectangle). The Badging Office for visitors is located in a temporary building in the parking lot at the Visitors Center (also lower red rectangle). After picking up your badge, please proceed to Building 34 (upper red rectangle). We will be meeting in rooms W120A and B on the first floor of Building 34.