

IceBridge Science Team Meeting Agenda

- Thursday January 20, 2011

1:00 Science Team Progress (2 min, one vu-graph summary from each team member)

1:30 Cryosat and IceBridge (Wingham, Davidson, Casal)

How can IceBridge instruments and flight lines benefit the scientific analysis of Cryosat Data?

How can IceBridge data help tie together ICESat 1/2 and Cryosat science

How can we incorporate Cryosat project needs into a decision matrix for

- IceBridge Flight Planning and Instrument Suite Selection
- Cryosat and Cryovex data sets

2:00 Data Set Status from Arctic and Antarctic 2010 (Kaminski, Scambos)

- 2:30 Instrument and Platform Configurations for Arctic 2011 (Studinger)
Science team requests for any configuration changes

- Sea Ice IR Sensor Analysis (Richter-Menge)

3:00 Presentation on the Status of IceBridge Flight Plans for the Arctic (Sonntag)

Break into Executive Session

4:00 PM review mandate and action items from the previous months of work (KCJ/JRM)

4:10 Discussion/review of current progress on Science basis document and Level 1 Reqs (JRM/KCJ)

4:20 Discussion on data set sub teams (KCJ/JRM)

4:30 Discussion/review of mission continuity/sensor comparison plans (POC)

4:45 In the context of what we have learned and the current documentation are there any glaring blunders in the to-date acquisition plans (Group Discussion)

5:20 review planned agenda for Friday (Science Team Leads)

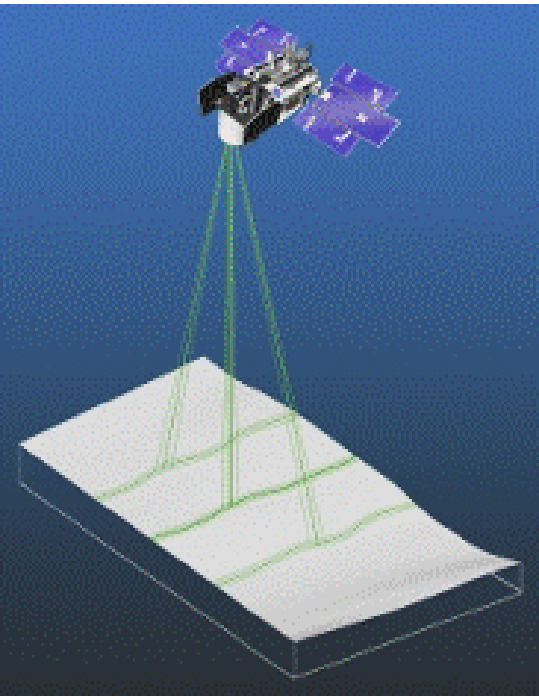
5:30 adjourn

IceBridge Science Team Agenda

- Friday
 - 0845 Review days 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.
 - 10:30 Break
 - 10:45 more sweeping!
 - 1200 Lunch
 - 1300 Review tabulated list of flight lines and priorities in context of requirements
- 1345 Summary of Action items and Telecon/Meeting Schedule (Go west young man/woman!)
- 1400 Adjourn



IceBridge Science Team Mandate



1. Final development of the IceBridge Science Definition Document and Level-1 Scientific Requirements Document;
2. Evaluation of the IceBridge mission designs in achieving the goals defined by the Science Definition Document and Level-1 Scientific Requirements Document as requested by the NASA Program Scientist; and
3. Support to the IceBridge Program Scientist and Project Scientist in the development of the required analyses, documentation, and reporting during the IceBridge mission.

Action Items

Vu-via web site

Key Actions

- 1) Finish Science requirements justification document
- 2) Identify next Science team activities
- 3) Telecon and meeting plan

<http://bprc.osu.edu/rs/IST/documents/ActionItems.xlsx>

Next tasks (Iteration with Tom)

- Complete the Level 1 requirements (appendix). The document is great. It's better than what we produced for the satellite missions. Some minor issues remain. 5 cm vertical accuracy? Is that possible? Is it over an averaged area? I think the doc might be mixing shot-to-shot with binned results, and might be overambitious. Can the snow radar do 5 cm? We need to get the area into the measurement requirements and verify the vertical accuracy. Ultimately we will have to distill Table W into the formal level 1 requirements. Short, simple verifiable. Measurements, distances. But let's not get bogged down in that now.
- Work with data. I think this is exactly the right thing to do. Let's make sure that the sci team gets data ONLY THROUGH NSIDC, not the PIs, to make sure we're doing things right at the data center. The outcome of this process will be:
 - Ensure we can meet the level 1s (we might need a draft report at the end of 2011)
 - Feedback to instrument teams (And perhaps with a formal review in June?)
 - Provide feedback to NSIDC (Documented as you see fit)
- Plan for future IceBridge. Bruce and I will use something like this routinely.
- <http://bprc.osu.edu/rsl/IST/documents/ScienceTeamActivities.docx>

Data Review

- Assess the quality, utility, format and documentation of IceBridge data and consistency with science requirements
- Provide feedback to Instrument Team and Data team
- Approach form sub teams composed of ice sheet and sea ice types to prepare a fall report. Appoint sub team leader.
- Subteams
 - Radar Depth Sounder (pre-science team report posted)
 - Potential Methods (very thorough initial gravity report posted – could be a good model)
 - Laser Altimeters (ATM/LVIS/Photon Counters)
 - Snow/Accumulation Radar
 - Model usability (formats, metadata, etc – Larour Draft)
- 16 Science team members so about 3-4 members per sub team