

OIB Team Meeting June 2011

1.0 OIB Instrument Summit

The OIB Instrument Summit goals and objectives are fully described in http://bprc.osu.edu/rsi/IST/documents/OIB_Instrument_Summit_deliverables.pdf. In summary, the goal of the Operation IceBridge Instrument Summit is to gain a picture of the individual instrument capabilities and performances and to understand the performance of the suite of instruments and platforms after 5 IceBridge campaigns and in support of the science objectives.

The format will include presentations from each instrument team about the analysis of accuracy and internal consistency of the data. There will be time allocated for extended discussions amongst all OIB team elements as regards instrumentation, data and data management. Key points include:

- instrument performance and specifications
- operating constraints and mutual compatibility between instruments (such as altitude)
- data coverage by instrument
- accuracy and precision of data products
- relevance to a geophysical objective
- interactions between instruments (such as clock synchronization; noise)
- instrument duplication (number of GPS units on board)
- calibration and calibration documentation as part of the metadata
- metrics for monitoring data quality
- metrics for monitoring the quality of data stream from the integrated suite of instruments.
- instrumentation gaps

The outcome will be written deliverables to assure the longevity of the data set.

2.0 OIB Ice Sheet Team Meeting

The Ice Sheet Team will meet to assess OIB Antarctic data in the context of the science requirements. The Team will also prepare a draft set of flight lines for the 2011 Antarctic Campaign.

3.0 OIB Sea Ice Team Meeting

The Sea Ice Team will meet to discuss OIB sea ice related community products (e.g. sea ice thickness and snow cover), the recent 2011 Arctic campaign (with an eye towards identifying any significant suggestions for operational changes for the 2012 Arctic campaign), and, in more depth, instrument performance over sea ice. The Sea Ice Team will also prepare a draft set of flight lines for the 2011 Antarctic Campaign.

4.0 OIB Plenary

A short plenary session is planned at the end of the meeting to review outstanding Project wide issues.

5.0 Strawman Agenda – OIB Team Meeting June 2011

Day 1

0830 Welcome and Logistics (Rignot and UC-Irvine Rep as appropriate)

0850 IceBridge Program Perspective (Wagner, Tagg)

0910 Instrument Summit Objectives and Charge Per Summit Definition Document (Studinger/Koenig)¹

Instruments

0930 ATM and Navigation (Krabill/Sonntag)

1000 LVIS (Blair)

1030 Break

1045 MCORDS/ Snow-Radar/Accumulation Radar/ Ku-Band Radar/ Processing techniques (In priority order)(Leuschen, Paden, Wu)

1200 Lunch

1300 Gravimeter/Magnetometer (Cochran/Tinto)

1330 UAF Altimeter (Larsen vu-graphs will be presented)

1345 UT Laser (Young)

1400 ASF Support and DMS (Dominguez/Dotson)

1430 Break

1445 General Discussion on Instruments – where do we stand with knowledge about instruments, documentation, optimization of the instrument suite (?)

Platforms

1545 B-200/G-5 Instrument Augments and UAVs (Koenig and ESA Rep)

Data

1615 Data Status and Products (NSIDC)

1700 Discussion of Higher Level Geophysical Products (Studinger)

1720 Summary (Studinger/Koenig)

1730 Adjourn

¹ Instrument team leaders are asked to allocate about 2/3 of their time to a summary that addresses the objectives in the Summit Definition Document (posted on the web). The remaining 1/3 should be reserved for discussion.

Day 2 Science Team Meetings

Ice Sheet group

0830 Introductions and Action Item Review

Antarctic Science Progress Summaries

0900 Thinning group (Ben, Scott, Ian)

0930 Force group (Sophie, Eric L., Ken)

1000 Water group (Mark, Bea)

1030 Break

1100 Oceans Group (Robin, Eric R., Duncan)

1130 Long term plan (All, but Ken and Scott to help lead discussion)

1200 Lunch

1300 Recommended course corrections (all)

1330 Begin Antarctic Ice Sheet Flight Planning

1730 End

Day 3

Ice Sheet Team

0830 Continue Antarctic Flight planning

1200 Lunch

1300 Final Plan, Priorization and Check List Matrix

1500 Action Items and any remaining Ice Sheet Discussion

1530 Break

Day 2 Sea Ice Team

0830-1200: Planning for 2011 Antarctic sea ice campaign

1200-1300 Lunch

1300-1730 Instrument performance related specifically to sea ice products

Day 3 Sea Ice Team

0830-1200 OIB Sea Ice Community Products

1200-1300 Lunch

1300-1530 Review Arctic 2011 campaign in preparation for 2012

Day 3 Plenary

1600 Plenary session for any OIB Project-wide issues

1700 End