PARCA/OIB Science Team Meeting: Sea Ice
29-31 January 2012, Goddard Space Flight Center, Greenbelt, MD

Honoring the memory of our colleague and friend, Seymour Laxon,
by advancing remotely-based observations of the Arctic sea ice cover

Attending all or part of meeting (not inclusive): Farrell, Kwok, Lindsay, R-Menge, Kurtz, Donghui, Harbeck, Connor, Tschudi, Instrument Team [ATM (Yungel, Manizade or others), DMS (Domínguez), Snow radar (Leuschen, Panden, other)], NSIDC Reps [Kaminski et al.], Brozena, Gardner, Li, Cavalieri, Newman, Davidson (ESA), Parrinello (ESA), Arvesen, Dotson, Jeffries, Xie, Webster, Rigor, Stroeve, Armitage, Tilling

By skype or telecon: Kauker, Haas, Hendricks, E. Key, Ackley, Mahoney, Rigor, Maksym, Prado,

Tues., 29 Jan: PARCA Meeting (full agenda and location provide by Charles Webb)

Featured sea ice presentations:
1535 Climate and Sea Ice Interactions in the Record Arctic Sea Ice Decline of 2012, T. Scambos and NSIDC Science Team, NSIDC
1600 Arctic sea ice drift speed and ice thickness, R. Kwok, JPL
1615 Using combined records of IceBridge and satellite-derived thickness and extent data to constrain figure projections of Arctic sea ice, J. Stroeve, University of Colorado, Boulder
1630 Towards an improved system for seasonal Arctic sea ice forecasting, N. Kurtz, GSFC
1645 In Memoriam: Seymour Laxon, H. J. Zwally, GSFC

Weds., 30 Jan: IceBridge Sea Ice Workshop; Rm. E108

Objective: Review and advance the status of OIB Sea Ice Community Products

0830 Convene: Introduction and Welcome (Richter-Menge)
  • Workshop objectives
  • Draft flight lines for IceBridge 2013 Arctic campaign

0915 Current Efforts – Successes and Challenges in Generating and Using IceBridge Sea Ice Products (~ 10 min. per presentation)
  • Kurtz (NASA): Status of OIB Sea Ice Community Products
  • Leuschen (U Kansas): Status of the KU snow depth products
  • Kauker (AWI): Potential value of IceBridge data for improved sea ice predictions
  • Xie (UTSA): Automated method in deriving local sea level height from ATM L1B data (UTSA)
  • Yi (NASA): ATM waveform analysis over sea ice
  • Farrell/Newman (NOAA): Comparison of IceBridge airborne data with in situ measurement in the Beaufort Sea
  • Webster/Rigor (UW): Comparison IceBridge and BROMEX snow depth and sea ice thickness observations
  • Tschudi (U Colorado): VIIRS cal/val using IceBridge KT-19 observations
  • Li Li (NRL): NRL use of IceBridge sea ice products
• Mahoney (UAF): Use of OIB data to identify MY features in the Beaufort Sea; SIZONet plans for ice thickness obs (joining from Hawaii, 5 hours time difference)
• Others?

Discussion: Identify and address gaps in the collection, delivery and use of IceBridge sea ice community products

1300 Exploring Opportunities for Collaboration
• Davidson (ESA): Summary of CVRT meeting in Nov. 2012, with an eye towards CryoVEx/IceBridge sea ice activities in 2014
• Hendricks/Helm (AWI): AWI activities for 2013
• Haas (York U): Coordination with the Canadian Space Agency
• Tschudi (U Colorado): Update on UAV and CULPIS-X plans
• Brozena/Gardner (NRL): Update on NRL activities
• Jeffries (ONR)/Lee (U Washington): ONR Marginal Ice Zone Project
• Webster/Rigor (U Washington): AOX/NAICE/BROMEX 2013
• Others?

Discussion: Identifying and coordinating opportunities for collaboration

1500 Future Arctic Sea Ice Observations: Increased Utilization of Sub-Orbital Assets
• Richter-Menge: Kick off with ideas from IceBridge Sea Ice Science Team

Discussion: Without consideration of logistic or resource constraints, develop a prioritized list of sea ice observations that would benefit from the increased use of autonomous airborne platforms

1700 End of workshop

Thurs, 31 Jan: OIB Sea Ice Science Team Meeting (closed session): Rm. H114

Joint session of land ice and sea ice teams

0830
1. LVIS Status & Global Hawk plans (15 min) (Blair/Luthcke)
2. GLISTIN Status (15 min) (D. Moller)
3. ATM: new science data products (15 min) (B. Krabill)

Break out: Sea ice team: Rm. E108

0915 Guidance from HQ to OIB Science Team (Wagner, Studinger)
1030 Revise and prioritize flight lines for 2013 Arctic campaign
1300 Role of LVIS in IceBridge going forward: Sea Ice Observations
• Follow up discussion with Blair on the utility of LVIS data: Is it being used and how? (OIB Sea Ice Science Team)
1400 Unfinished business
• Science team input on instrument and platform configurations

1500  End of meeting