

Agenda

ISSI-Team Meeting (Bern, June 23-27, 2014)

Towards an integrated retrieval of Antarctic sea ice thickness distribution

Monday, June 23:

- 10:00-11:00 Welcome by and Introduction to ISSI (Maurizio)
Welcome by Team Leaders
Review of workshop goals and key questions (Stefan)
Agreement of final Agenda
- 11:00-11:30 All: Upcoming workshops & conferences (regular IICWG, IICWG/ICE-ARC, CliC-Workshop Hamburg, SCAR, The Climate Symposium, COSPAR assembly 2016)
- 11:30-12:00 *Burcu*: Turkish Antarctic Science Program
- 12:00-13:00 Lunch
- 13:00-14:00 *Natalia*: Sea Ice Concentration from the ESA-SICCI project: First results of evaluation and intercomparison
- 14:00-15:00 *Stefan*: Sea Ice Concentration from near 90 GHz channels: Intercomparison to ASPeCt ship-based observations and lead detection potential
- 15:00-15:15 Coffee break
- 15:15-16:00 *Penny*: Assessment of the accuracy of the OSI SAF Products sea ice concentration for Automation
- 16:00-17:00 Discussion about status of Antarctic sea ice concentration / open questions / new products to come / uncertainties / the way forward

Tuesday, June 24:

- 09:00-09:45 *Alex*: Driving mechanisms for Antarctic Sea Ice: A comparison of model and observational data
- 09:45-10:30 *Thomas*: About SAR sea ice motion uncertainty
- 10:30-10:45 Coffee break
- 10:45-11:15 *Leif*: Sea ice drift work in Antarctic from SAR / News from Sentinel
- 11:15-12:00 *Stefan*: The NSIDC sea ice motion data set: Content and Limitations
- 12:00-13:00 Lunch
- 13:00-14:00 *Petra*: University of Tasmania activities regarding sea ice motion and deformation (IPADS, SIPEX-II, ANT-XXIX_9)
- 14:00-14:45 *Thomas*: A multi-sensor approach for enhanced polynya monitoring

- 14:45-15:15 Discussion about status of Antarctic sea ice motion / open questions / new products to come / validation / uncertainties / use for deformation
- 15:15-15:30 Coffee break
- 15:30-16:15 *Sandra*: About first results of using Cryosat-2 for Antarctic sea ice freeboard retrieval
- 16:15-17:00 *Stefan / Burcu*: Antarctic sea ice: Freeboard, thickness and their uncertainties as derived from ICESat

Wednesday, June 25:

- 09:00-09:45 *Alex*: Antarctic sea ice changes and their impact on the Southern Ocean hydrography
- 09:45-10:30 *Ted*: Snow on Antarctic sea ice as seen during OIB campaigns in the Weddell and Bellingshausen Seas from 2010 and 2011
- 10:30-10:45 Coffee break
- 10:45-11:30 *Nina*: About Snow Depth Retrieval using L-Band Satellite Radiometry
- 11:30-12:15 *Stefan / Burcu*: Snow depth on Antarctic sea ice from AMSR-E and ICESat: A comparison
- 12:15-13:15 Lunch
- 13:15-14:00 *Cathy*: Antarctic Sea Ice Thickness and Volume Estimates from Ice Charts between 1995 and 1998
- 14:00-15:00 Discussion: Sea ice thickness and snow on sea ice
- 15:00-15:15 Coffee break
- 15:15-17:00 Discussion (continued) Sea ice thickness and snow on sea ice

Thursday, June 26:

- 09:00-10:30 *Cathy*: Sea Ice Thickness & Deformation & Scales: 3D Electromagnetic Induction Field Simulations of Level and Deformed Sea Ice / Impact of Spatial Aliasing on Sea Ice Thickness Measurements
- 10:30-10:45 Coffee break
- 10:45-11:30 *Cathy*: On the Uncertainty of Isostasy
- 11:30-12:15 *Ted*: Sea Ice Thickness from AUVs
- 12:15-13:15 Lunch

- 13:15-15:00 Discussion: Representativity of satellite observations / Strategies to better evaluate and validate snow and sea ice thickness from satellite remote sensing
- 15:15-15:30 Coffee break
- 15:30-17:00 Discussion: Identification of steps required to better quantify Antarctic sea ice thickness and snow / Steps forward for a better validation / Steps forward for improved uncertainty assessment

Friday, June 27:

- 09:00-10:45 Discussion about topics for future ISSI-Team calls and about future team members
- 10:45-11:00 Coffee break
- 11:00-11:30 ISSI-Team publications & white paper
- 11:30-12:00 Representation of ISSI team members at international conferences / workshops
- 12:00-13:00 Results of the workshop, concluding remarks and official closing of the meeting

Topics:

- 1) Snow depth and accumulation
- 2) Processes driving thickness variability
- 3) How to best use in-situ observations for remote sensing data product validation?
- 4) SCAR horizon scan?
- 5) ...

Future directions:

- 1) Role of modeling
- 2) Key OIB and ICESat people
- 3) Cal/Val: Sentinel1 and IceSat2
- 4) Polarview (Antarctic.aq), GlobICE, MyOcean, IICWG, ...:
- 5) Where to and what next?
- 6) Ice analysis & forecasting
- 7) Planned field and CAL/Val work
- 8) ...