



# ASRSC ACTION ITEMS STATUS

Last Updated December 9, 2017

## Applied Science and Research Standing Committee

Co-Chairs: Dean Flett (CIS) / Wolfgang Dierking (AWI) / Phil Reid (BOM)

Wiki page: <https://agora.fmi.fi/display/IICWG/SC+14-4+List+of+satellite+sensors>

- SC 14-6 Produce a white paper on new parameters (based on initial work in SC 13-4). Investigate in depth the literature on how to produce these parameters in a way that could be implemented. Also see SC14-11. Should also include waves in sea ice, melt ponds, etc. Present and discuss in session at next IICWG.  
Responsible: Nick Hughes, Sean Helfrich  
Deadline: Initial Draft 1<sup>st</sup> telecom (January 2016); Final Version 2<sup>nd</sup> telecom (April 2016)  
Status: CLOSED. a draft document is available on the ASRSC Wiki page and at <https://docs.google.com/document/d/1WyYCXavquYAH-rGICGSeIWxAsIEcMHEstZqa-fJUOu4/edit?usp=sharing>. The white paper was discussed in Committee at IICWG-XVIII. Propose to present and discuss at next IICWG in plenary for consideration of potential additions for SIGRID. A new action item SC18-1 was raised. Two new actions SC18-1 and SC18-2 were raised in relation to the white paper.
- SC 14-11 Link to CliC Sea Ice Thickness combined product development task. Create a blended dataset of ice thickness data and snow thickness for evaluation by operational users and sea ice model initialization. Covers spring and fall of two years (2007 and 2012) and allows evaluation of the differences between different products.  
Responsible: Nick Hughes (lead); Susanne Hansen (DMI), Eero Rinne (FMI), Penny Wagner (NIS), Julianne Stroeve (NSIDC), Gina Henderson (USNA)  
Deadline: Report at IICWG-XIX  
Status: OPEN. Delayed while CryoSat processing being improved by FMI and AWI. Target objective is to complete Winter 2017/18 before SPICES finishes June 2018
- SC 15-8 Work to improve collaboration between ASPeCt and Ice Watch shipboard sea ice observations programmes. Comment on new ASPeCt developments. While Ice Watch had input into SIGRID 3.3, see what ASPeCt can contribute.  
Responsible: Pablo Clemente-Colón, Nick Hughes, Petra Heil, Jenny Hutchings, John Falkingham  
Deadline: 1st Telecom (Jan 2016); Report on progress at IICWG-XVII  
Status: CLOSED. Ice Watch has developed the ASSIST (Arctic Shipborne Sea Ice Standardization Tool) with publicly available software and



## ASRSC ACTION ITEMS STATUS

Last Updated December 9, 2017

on-line forms to ease the capture of ice observations from ships (<https://sites.google.com/a/alaska.edu/ice-watch/>). This software can be used in the Antarctic as well although there is currently no translation software to convert from ASPeCt to ASSIST (or SIGRID – there is an IICWG plenary action related to this issue).

- SC 15-9      Argentina, Chile and other southern hemisphere services to share near real-time and historical in-situ ice and meteorological observations from Antarctic stations via NSIDC. Provide manual (in Spanish) on ice observations training. Ice observations are twice a week, meteorological every 6 hours. Report on activity at IICWG-XIV  
Responsible: Alvaro Scardilli, ASRSC co-chairs, Florence Fetterer  
Deadline: April 2018  
Status: OPEN. Near-real time/current ice and iceberg information available at <http://www.hidro.gob.ar/Smara/glacio/sglaciologica.asp>. In-situ ice and met station observations sharing via NSIDC pending completion and release of manual (see 16-2). Historical ice observations data base digitization in progress; target completion by end of 2017. Argentina looking at potential inclusion of Navy ships into GTS for sharing ship observations.
- SC 15-10      Write a white paper and create a Wiki page identifying new shipboard instrumentation capabilities. What systems can be added to ships, e.g. RV Agulhas II? It was noted that BAS and AAD are in the market for new ships. Argentina also interested due to refit of their icebreaker. Can these instrumentation systems be standardised? Identify differences between built-in and retro fit instrumentation.  
Responsible: Nick Hughes, Sean Helfrich, Tuomas Niskanen, Tshikana Raselhom, HSV A (Hamburg Ship Model Basin)  
Deadline: TBD  
Status: CANCELLED – FMI (Niskanen and Lensu) prepared a presentation of suggested observation requirements and instrumentation to be considered in a future meeting.
- SC 16-2:      Make the Argentinian ice observation manual available via Global Cryosphere Watch web page (Reference → Other Resources <http://globalcryospherewatch.org/reference/other/>).  
Responsible: Vasily Smolyanitsky, Alvaro Scardilli  
Deadline: January 2018  
Status: OPEN. The Spanish version of the manual is completed but is still under revision by the authorities. The English version is translated



## ASRSC ACTION ITEMS STATUS

Last Updated December 9, 2017

but there is discussion about whether Argentina should submit a manual in a language than Spanish (their official language).

- SC 17-2      Contact DLR to determine the possibility of TerraSAR InSAR acquisitions over fast ice regimes off Labrador and Barrow coasts in coordination with deployment of in-situ buoys in fast ice planned for December 2017 (Labrador) and Spring 2018 (Barrow; TBC). This is potentially information to support the predictability of landfast ice conditions. Define coordinated acquisitions with field deployment.  
Responsible: Wolfgang Dierking (SAR acquisitions), Adrienne Tivy, Andy Mahoney  
Deadline:      Spring 2018  
Status:      OPEN. CIS is planning to deploy buoys on the Labrador coast this winter and will request acquisitions for the Feb-June timeframe.
- SC 17-3      Exchange methodologies and evaluation techniques for ice information verification, including observations, charts, and model outputs. The long term objective is to move towards standards for verification. Brief and/or report on progress to be delivered at or prior to the next IICWG.  
Responsible: Paul Pestieau, Sean Helfrich, Till Rasmussen, Nick Hughes, Mike Hicks, Phil Reid  
Deadline:      IICWG-XIC  
Status:      OPEN. Phil Reid will follow up with the WMO Joint Working Group on Forecast Verification Research.
- SC 18-1      Distribute the most recent version of the white paper on new ice parameters (SC 14-6) to the IICWG participants.  
Responsible: Wolfgang Dierking, Secretariat  
Deadline:      IICWG-XIX  
Status:      OPEN.
- SC 18-2      Solicit information/reports/papers on the status of development of methods for retrieving parameters mentioned in the white paper (SC14-6) and add this information to the white paper. Invite speakers with expertise in developing these methods to give presentations at the IICWG Science Workshop 2018.  
Responsible: Wolfgang Dierking, ASRSC Co-Chairs  
Deadline:      IICWG-XIX  
Status:      OPEN.
- SC 18-3      Motivate IICWG members involved in funded projects with objectives of interest to IICWG to report on objectives, progress, results. Check possible interaction between projects and IICWG members. Collect information and make it available to IICWG members. Report on the success of this venture at next IICWG meeting.  
Responsible: ASRSC Co-Chairs



## ASRSC ACTION ITEMS STATUS

Last Updated December 9, 2017

Deadline: IICWG-XIX  
Status: OPEN.

- SC 18-4      Seek suggestions for projects suited for closer co-operation between researchers from the Northern Hemisphere and the Southern Hemisphere in fields of interest for IICWG. Develop a strategy to optimally get information and do planning.  
Responsible: ASRSC Co-Chairs  
Deadline: IICWG-XIX  
Status: OPEN.
- SC 18-5      Trigger dialogue between data assimilation research and operational ice services on their respective needs regarding data input / output of results. Report on the outcome at the next IICWG meeting.  
Responsible: Nick Hughes, Leif Toudal Pedersen  
Deadline: IICWG-XIX  
Status: OPEN. A discussion on this is planned for the Data Assimilation Workshop in November 2017.
- SC 18-6      Start a discussion on developing strategies for visualizing simulation (forecast) model output at the Data Assimilation Workshop in November 2017.  
Responsible: Nick Hughes, Phi Reid  
Deadline: November 2017  
Status: OPEN.