



Annual Meeting Helsinki September 2018

Applied Science and Research Standing Committee
(ASRSC)
Action Item Status Sep. 2018

Wolfgang Dierking, Dean Flett, Phil Reid

International Ice Charting Working Group



SC 14-1

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.

Status: CANCELLED.
It turned out that this work was more directed towards development and did not focus on getting an operational outcome. It will be carried forward in future objectives.

International Ice Charting Working Group



SC 15-9

Southern hemisphere services to share near real-time and historical in-situ ice and met. observations from Antarctic stations via NSIDC

(Alvaro Scardilli, ASRSC co-chairs, Florence Fetterer)

International Ice Charting Working Group



SC 15-9 continued

Status: IN PROGRESS (COMPLETED?)

- Near-real time/current ice and iceberg information available
- In-situ ice and met station observations sharing via NSIDC is pending.
- Argentine Navy ships are in the process of incorporation in the Voluntary Observing Ship (VOS) program
- AARI and NSIDC are receiving regularly reports from the Argentinian meteorological coastal station

International Ice Charting Working Group



SC 16-2

Make the Argentinian ice observation manual available via Global Cryosphere Watch web page

(Vasily Smolyanitsky, Alvaro Scardilli)

Status: IN PROGRESS

- The Spanish version of the manual is completed, available in digital format in summer 2018 (?)
- The English version is prepared.

International Ice Charting Working Group



SC 17-2

Contact DLR for TerraSAR InSAR acquisitions over fast ice regimes off Labrador and Barrow coasts in coordination with deployment of in-situ buoys in fast ice.
(Wolfgang Dierking, Adrienne Tivy, Andy Mahoney)

Status: CLOSED.
CIS deployed buoys on the Labrador coast this winter, Tandem-X acquisitions were requested. Because of competing orders, images were not acquired. =>New action item for field campaign 2019.

International Ice Charting Working Group



SC 17-3
Exchange methodologies and evaluation techniques for ice information verification => standards for verification

(Paul Pestieau, Sean Helfrich, Till Rasmussen, Nick Hughes, Mike Hicks, Phil Reid)

Status: OPEN
 The action is lacking a champion to push it forward.
 (Nick will present some metrics for discussion at IICWG-XIX?)

International Ice Charting Working Group



SC 18-1
Distribute the most recent version of the white paper on new ice parameters (SC 14-6) to the IICWG participants.

(Wolfgang Dierking, Secretariat)

Status: CLOSED.
 A new version of the white paper was distributed on February 13, 2018. No input has been received to date.

International Ice Charting Working Group



SC 18-2
(a) Solicit information/reports/papers on the status of methods for retrieving parameters mentioned in the white paper (SC14-6). (b) Invite speakers with expertise in developing these methods to give presentations at the IICWG Science Workshop 2018.

(Wolfgang Dierking, ASRSC Co-Chairs)

Status: (b) CLOSED (a) TO BE CLOSED?.
 Information/reports/papers were not collected.

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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.

(ASRSC Co-Chairs)

Status: TO BE CLOSED?
 No feedback to date.

International Ice Charting Working Group



SC 18-4
Seek suggestions for projects suited for closer co-operation between researchers from the Northern and Southern Hemisphere in fields of interest for IICWG..

(ASRSC Co-Chairs)

Status: CLOSED.
 Letter was circulated for comments and sent to IICWG's distribution list on July 22. This item will be discussed during next days.

International Ice Charting Working Group



SC 18-5
 Trigger dialogue between data assimilation research and operational ice services on their respective needs regarding data input / output of results.

(Nick Hughes, Leif Toudal Pedersen)

International Ice Charting Working Group



SC 18-5 continued

Status: OPEN ?? (CLOSED)

- Several Ice Services were present at the 8th International Workshop on Sea Ice Modelling, Data Assimilation and Verification in Nov. 2017. Discussions about the interaction between assimilation research and operational ice services.
- Publication of the book "Sea Ice Analysis and Forecasting: Towards an Increased Reliance on Automated Prediction Systems" (Carrieres, Buehner, Lemieux, Pedersen).

International Ice Charting Working Group



SC 18-6

Start a discussion on developing strategies for visualizing simulation (forecast) model output at the Data Assimilation Workshop in November 2017.

(Nick Hughes, Phi Reid)

Status: CLOSED.

There was little time for discussion at the DAWG workshop. It will be pursued during the working sessions at IICWG-XIX

International Ice Charting Working Group



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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 14-11 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: CANCELLED. It turned out that this work was more directed towards development and did not focus on getting an operational outcome. It will be carried forward in future objectives.
- 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>. Information obtained from Alvaro: In-situ ice and met station observations sharing via NSIDC is pending. Argentina has a database of ship/station ice observations from 1980 to present that can be shared with NSIDC. A contact is needed to start coordination. Argentine Navy ships are in the process of incorporation in the Voluntary Observing Ship (VOS) program. Information obtained from Vasily: AARI and NSIDC are receiving regularly reports from the Argentinian meteorological coastal station. At AARI, messages are stored internally. Vasily proposes to copy ice charts from Argentina in SIGRID-3 and graphics at ice.aari.aq in a similar manner as NMI does (using scripts to sftp charts). They can then easily forwarded to the WMO Global Cryosphere Watch, etc ensuring the WMO visibility. Similar, Vasily may start to publish all icebergs and coastal reports for the



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SO at <http://ice.aari.aq>. As the site has both the http and sftp access, it may be mirrored at NSIDC.

- 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. Publication editors are working on the final format. It will be available in digital format in summer 2018. The English version is translated 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: CLOSED. CIS deployed buoys on the Labrador coast this winter and Tandem-X acquisitions were requested from DLR, however, without an official proposal. Because of competing orders, images were not acquired over the CIS test site. For next year, when again buoys are planned to be deployed, a formal proposal will be submitted to DLR. (Hence, a new action item is required.)
- 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. The action is lacking a champion to push it forward. Nick will present some metrics for discussion at IICWG-XIX.



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- 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: CLOSED. A new version of the white paper was distributed on February 13, 2018. No input has been received to date.
- 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: CLOSED. No comments on the white paper have been received to date.
- 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
Deadline: IICWG-XIX
Status: CLOSED. No feedback to date.
- 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: CLOSED. Letter was circulated for comments and sent to IICWG's distribution list on July 22. This item will be discussed during the meeting in Helsinki..
- 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: CLOSED. Several Ice Services were present at the 8th International Workshop on Sea Ice Modelling, Data Assimilation and Verification in November 2017 (MET, DMI, NIC, CIS) and lively discussions took place about the interaction between assimilation research and operational ice services. Additionally,



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the workshop series led to the publication of the book “Sea Ice Analysis and Forecasting: Towards an Increased Reliance on Automated Prediction Systems” (Carrieres, Buehner, Lemieux, Pedersen).

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: CLOSED. There was little time for discussion at the DAWG workshop. It will be pursued during the working sessions at IICWG-XIX.