



INTERNATIONAL ICE CHARTING WORKING GROUP (IICWG)

Last Update: 16 November 2018

Parking Lot for Ideas Proposed but Not Taken Up for Action

1. Discuss how best to display ice ridging information (Ref: Ice Ridging Workshop, Iceland, 2012) – Data Committee has action to look at symbols – BSIM will discuss
2. Determine how to best archive ice ridge location data (Ref: IICWG-XIII Report, p. 8) – covered under SIGRID-3 but people have to put ridges
3. Hold a joint modellers and operations workshop (Ref: IICWG-XIII Report, p. 8)
4. Ice thickness is an important observation requirement. Need to develop ways to integrate ice thickness into the whole observation-analysis-prediction chain (Ref: IICWG-XII p. 20)
5. Put ice model products on a web page where they could be easily inter-compared on a regular basis (Ref: IICWG-XIII Report, p. 16) – could get some funding from ESA to do this like for the snow project – task to modelling community DA Groups
6. Develop ice model visualization tool(s) for routine forecasting and fast response capability (Ref: IICWG-XIII, Patrick Eriksson’s “wish list”) – give to Modelling group
7. Hold a “User-Provider” workshop with a focus on oil exploration - more interaction (“fewer slides, more talk”). It could be held under an ESA-Oil and Gas Earth Observation (OGEO) umbrella (Ref: IICWG-XIII Report, p.16)
8. Produce common climate charts for the arctic incorporating standards for the production of climate charts and a manual similar to MANICE for these charts (Ref: IICWG-XIII Data Committee Debrief) – regional climate centre could take this put this into the support for the RCC
9. Connect with users and clients to better understand their needs. Perhaps have theme meeting on operations and user reach (Ref: IICWG-XIII – throughout)
10. Produce dynamic ice charts that are scale-dependent for compatibility with ECDIS. (Ref: IICWG-XVII Action Item Panel on “Ice in ECDIS”)
11. Incorporate satellite images into ECDIS (Ref: IICWG-XVII Action Item Panel on “Ice in ECDIS”)
12. Develop IICWG needs in preparation for responses to NASA’s decadal survey to define the next satellite missions. Also engage China and India and contact the snow people to develop some synergy.
13. Initiate discussion with ECDIS manufacturers about what ECDIS displays of ice information will encompass – alerts? Time stamps? Forecasts? (Ref: IICWG-XVI Business Meeting – Consolidating S-411)



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14. Ice Services should contact ice navigator training schools to determine whether ice information training is offered at a sufficient level of detail and, if not, consider providing some support (e.g. training materials, lecturers). Ice Service Heads to report results back to IICWG-XVIII. (Ref: IICWG-XVII Plenary Session 2)
15. Develop software to convert multiple observation codes (eg. ASPEcT, ASSIST, etc) to a common standard. (Ref: IICWG-XVII Science Committee Report)
16. Develop a colour code for ice chart uncertainty to increase navigator confidence. (Ref: IICWG-XVII Helfrich presentation)
17. IICWG members could provide products to the Polar Region Climate Centre. (sea ice concentration, thickness, forecast for open shipping route, freeze-up and break-up) (Ref: IICWG-XVII – vision team)
18. Contact national representatives on the IMO Sub-Committee on the Human Element, Training and Watchkeeping to establish a more formal liaison with respect to the training of mariners for the ice information aspects of the Polar Code. (Ref: IICWG-XVII Polar Code Session)
19. Consider how IICWG can implement future advancements taking advantage of what are we going to learn from YOPP.
20. Report on trials/pilots to broadcast ice charts and/or information with the VHF Data Exchange System (VDES). (IICWG-XVIII)
21. Explore opportunities to collaborate with partners to address the challenges and opportunities of big data approaches to ice service operations. (IICWG-XVIII)
22. Investigate ways to encourage expedition ships to provide ice observations on the Global Telecommunications System. (IICWG-XVIII)
23. Report on trials/pilots to broadcast ice charts and/or information with the VHF Data Exchange System (VDES) (IICWG-XVIII)
24. Develop a template for a product guide draft for users. Define what should be included and a proposal for collection of the data. Insight on Polar Code should be considered. All committee members will be included for input. (DICSSC 17-5, IICWG-XVII)
25. 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. (ASRSC 17-3, IICWG XVII)
26. Explore opportunities to collaborate with partners to address the challenges and opportunities of big data approaches to ice service operations. (IICWG-XVIII)



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27. Ice Services need to provide stage of development as well as ice concentration to support detection of melt onset period and for Polar Code Risk Assessment (IICWG-XIX)
28. Provide advice to ESA on obtaining increased coverage for Southern Ocean if Sentinel-1 a/b are still healthy when Sentinel-1 c/d are launched in 2022. (IICWG-XIX)
29. Develop a common set of data and observation requirements for communicating Ice Service needs to space agencies. (IICWG-XIX).
30. Formalize the IICWG-ArcticRCC relationship. (IICWG-XIX)
31. Establish a formal definition for Iceberg Limit and get incorporated into WMO Nomenclature. (IICWG-XIX)
32. IICWG to get more involved in the Service Component of Copernicus to promote Arctic services. (IICWG-XIX)