



3 Nov 2020

## International Cooperative Engagement Program for Polar Research (ICE-PPR)

### U.S. Delegation to ICE-PPR Situational Awareness Working Group (USSAWG)

## Meeting agenda for ICE-PPR USSAWG, 6 Nov 2020

The following is the planned agenda for the ICE-PPR USSAWG meeting planned for Friday, 6 October 2020, 10-11:15 AM Alaska/2-3:15 PM Eastern Daylight Time via Microsoft Teams:

1. Update from the most recent U.S. ICE-PPR Principals meeting.
  - a. Provided by US ICE-PPR XO, John Woods
2. Update (as relayed on ICE-PPR Situational Awareness Working Group from SWAG Lead Soren Laursen (Denmark)).
  - a. Note, ICE-PPR USSAWG lead (Church Kee) will provide recap as Mr. Laursen is not able to join the meeting.
  - b. Note: USSAWG is standing by an overall meeting of the ICE-PPR SAWG pending coordination by Mr. Laursen to the other national delegations.
3. Overall Summary Update by USSAWG Lead Church Kee and USSAWG XO, LCDR Winchell (USNR)
  - a. Welcome of new member, DHS S&T OUP's Theo Gemelas
4. New Business: Information briefings:
  - a. U.S. Coast Guard Pacific Area Emerging Situational Awareness Maritime Technology Update.
    - i. Briefing provided by Dr. Phil McGillivary USCG Science Director, U.S. Coast Guard Pacific Area Command, Alameda California.
  - b. Department of the Air Force Research Lab (AFRL) Space-based Link-16 experiment.
    - i. Briefing provided by 1 LT Shawn Hamel, USAF, AFRL, Wright-Patterson AFB, Ohio.
  - c. Future briefings: Should USSAWG seek additional briefings on pending developments in satellite communications?
    - i. ADAC has a developing collaboration in Arctic Satellite Communications and Connectivity via Iridium's GMDSS program and can gain an update to this program by the commercial developers if/as useful.
    - ii. Inputs from specific communities on government or commercial advances from the USSAWG team? Looking for ideas from NAVEUR, OPNAV, AFRL, ONR, USCG R&D Center, others?
5. Old business:
  - a. ADAC hosted "Polar Communications and Connectivity Assessment"



- i. A planned comprehensive unclassified study on the shortfalls in maritime communications and connectivity that affects both military and commercial vessels operating in polar regions.
    - ii. Approximately 15-month planned assessment timeframe.
    - iii. Assessment seeks to establish a baseline of developing advances in polar region communications from a multi-discipline vantage.
    - iv. What other similar forums are USSAWG participants involved with that may provide opportunity for ICE-PPR?
  - b. ADAC Arctic Ice Conditions Index (ARCTICE) is another research project that seeks to provide Arctic vessel masters a decision support index in making go-no-go and route of steam based on modeled and forecast sea ice and vessel category.
    - i. What other similar forums are USSAWG participants involved with that may provide opportunity for ICE-PPR?
  - c. Characterizing/forecasting weather and the operational polar environment.
    - i. U.S. Research community is developing better observations and models.
    - ii. What advances for characterizing the polar regions are coming from NOAA/NWS useful for ICE-PPR?
    - iii. Recommendations in how to best access these to contribute to the ICE-PPR medium?
    - iv. Should ICE-PPR solicit input from developments from the forecasting/characterizing and/or research community?
6. Looking forward...value in arranging briefings/technical updates from U.S. sources to help USSAWG determine what is useful to share with ICE-PPR partners? Currently, ICE-PPR USSAWG discussions have highlighted the following areas of interest:
  - Navigation (in particular, non-GPS aided)
  - Communications (both terrestrial and space based)
  - Sensors (which rightly should include buoys)
  - Decision Support and Domain Awareness tools (which include multisource data aggregation and integration)
7. What aspects of ICE-PPR that you find interesting and a corresponding willingness to invest more time and effort? Conversely, what aspects of ICE-PPR is less useful and correspondingly provides less incentive to collaborate?
  - a. Inputs from participating members
  - b. Volunteers for future briefings?
8. Roundtable with participating members.
9. Next Meeting, request Monday, 7 Dec 2020, 10 AM Alaska/2 PM Eastern, pending no concerns of USSAWG.

