



2 October 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, 2 October 2020

The following is the planned agenda for the ICE-PPR USSAWG meeting planned for Friday, 2 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.
2. Welcome new invited USSAWG invited workgroup participants.
  - a. DHS S&T
  - b. USNIC
3. Update on ICE-PPR Situational Awareness Working Group as related from electronic communications related by SWAG Lead Soren Laursen (Denmark).
4. Review of July and August 2020 USSAWG meeting discussions, soliciting new inputs continues towards:
  - a. Further discussion (of useful advances) on Technology for navigation in the Polar regions in a GPS denied environment?
  - b. Further discussion on Technology for navigation in the Polar regions in a GPS denied environment.
  - c. Further discussion on Tactical/operational domain awareness, connectivity and communications technologies.
5. Discuss pending developments in satellite communications. What is coming in the government vs commercial sector that may prove helpful to learn more through ICE-PPR?
  - a. What is known/understood via USSAWG delegates?
  - b. Should ICE-PPR solicit input from developments from the Defense Industrial Base?
  - c. What do we have to share...vs what do our ICE-PPR partners have that we would wish them to share?
6. ADAC is developing opportunities for interested participants of USSAWG for a pending ADAC hosted "Polar Communications and Connectivity Assessment" (awaiting DHS S&T OUP and HQ U.S. Coast Guard review, edits and approval).
  - a. A planned comprehensive unclassified study on the shortfalls in maritime communications and connectivity that affects both military and commercial vessels operating in polar regions.
  - b. Approximately 15-month planned assessment timeframe.
  - c. Assessment seeks to establish a baseline of developing advances in polar region communications from a multi-discipline vantage.



- d. What other similar forums are USSAWG participants involved with that may provide opportunity for ICE-PPR?
7. 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.
  - a. What other similar forums are USSAWG participants involved with that may provide opportunity for ICE-PPR?
8. Characterizing/forecasting weather and the operational polar environment.
  - a. U.S. Research community is developing better observations and models.
  - b. What advances for characterizing the polar regions are coming from NOAA/NWS useful for ICE-PPR?
  - c. Recommendations in how to best access these to contribute to the ICE-PPR medium?
  - d. Should ICE-PPR solicit input from developments from the forecasting/characterizing and/or research community?
9. 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)
10. 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?

