



30 Aug 2021

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, 31 Aug 2021

The following is the planned agenda for the ICE-PPR USSAWG meeting planned for Tuesday, 31 Aug 2021, 10-11:15 AM Alaska/2-3:15 PM Eastern Time via Microsoft Teams:

1. Update by USSAWG Lead **Church Kee** and USSAWG XO's, **LCDR Winchell (USNR)**, and **CDR Dan Lubin**.
 - a. **USSAWG lead transition** from the Arctic Domain Awareness Center to the Senior Advisor, Arctic Security Affairs, U.S. Department of Defense (currently assigned to Defense Security Cooperation Agency, via the Daniel Inouye Asia Pacific Center for Security Studies). Additional information to be provided shortly.
 - i. Standing by DSCA approval to continue serving as USSAWG.
 - ii. Subsequent DoD Arctic initiative to be announced soon.
 - b. University of Alaska Anchorage and **ADAC will continue to host USSAWG** information until further advised. Please see: <https://arcticdomainawarenesscenter.org/ICE-PPR>
 - c. Delay of the planned Boeing and test consortium Arctic Tests 21 for Andoya Norway. These delays are due to COVID-19 related concerns. More to follow when the information is known. Please see: <https://www.idg.network/arcticx.html>.
 - d. **Establishment of USSAWG 2 new sub-working groups:** 1. Communications and 2. Navigation. Intent/reason for the establishment: distribute workload and allow for granular intercessional work.
 - i. **Schedule:** USSAWG meeting structure will change to a three meeting format: Month 1: USSAWG, followed by Sub Working Group for Communications (Month 2) and Sub Working Group Navigation (Month 3).
 - ii. **CDR Lubin will lead Communications Sub Working Group.**
 1. Focus: advance initiatives that can result in Project Arrangements oriented to communications areas of interest for polar regions.



2. Provide communications related recommendations to USSAWG Director to advance to SAWG lead (Denmark) and US ICE-PPR ESC and XO.
3. Lead the planning, schedule and delivery of Comms Sub Working Group on the month following USSAWG meeting.
4. Further reflections by CDR Lubin
- iii. **LCDR Winchell will lead Navigation** Sub Working Group
 1. Focus: advance initiatives that can result in Project Arrangements oriented to navigation (which encompasses positioning, navigation and timing) areas of interest for polar regions.
 2. Provide navigation related recommendations to USSAWG Director to advance to SAWG lead (Denmark) and US ICE-PPR ESC and XO.
 3. Lead the planning, schedule and delivery of Comms Sub Working Group on the month following Communications sub working group meeting.
 4. Further reflections by LCDR Winchell.
2. Update from the most recent U.S. ICE-PPR Principals, and ICE-PPR Executives meeting. Provided by US ICE-PPR XO, **John Woods**.
 - a. Prior XO update attached in read ahead (June and July)
 - b. Congress Arctic report:

<https://crsreports.congress.gov/product/pdf/R/R41153> No direct mention of ICE-PPR, but International is mentioned throughout "....Arctic could cause the region in coming years to become an arena of international cooperation, tension, and/or competition."
3. Update and briefing by ICE-PPR Situational Awareness Working Group SWAG Lead **Soren Laursen** (Denmark)).
 - a. Progress update on Developing Terms of Reference.
 - b. Update for overall SAWG priorities?
 - c. Inputs from other SWAG national representatives?
4. Information Updates:
 - a. CUMID Update by Dr. Daniel Sternlicht, Department of the Navy
 - b. ICE-PPR ESC meeting, tentatively 16-18 Nov 2021, Oslo Norway.
 - c. FYI: DoD Arctic S&T Conference, 16-18 Nov 2021, Hanover NH. The Office of the Under Secretary of Defense for Research and Engineering and US Army Corps of Engineers' Cold Regions Research and Engineering Laboratory (CRREL) are co-hosting the Third DoD Arctic Science and Technology Workshop at CRREL headquarters in Hanover, NH, on 16-18 November 2021 (COVID permitting).
 - i. The purpose of the workshop is to convene the DoD Science and Technology (S&T) community to identify research, technologies,



International Partnerships, and best practices to build DoD's capability to understand the current and future Arctic environment, enhance resiliency, adaptability, and survivability of Arctic materiel and infrastructure, and ensure operational readiness in the Arctic.

5. Old business

- a. Consider Project Arrangement for eLORAN (task to navigation sub working group).
- b. Follow-up from CY 2021 briefings:
 - i. Saildrone.
 - ii. Aurora Flight Sciences.
 - iii. Hawkeye 360 systems briefing.
 - iv. Hellen Systems on eLORAN 2022 experiments Jan 2022 near Sandpoint, Lake Pend Oreille Idaho.
 - v. Satellite-based experiment for Link-16.
 - vi. HAARP, University of Alaska Fairbanks Geophysical Institute.
 - vii. Trident Systems.

6. New Business

- a. Consider update from Iridium's GMDSS program for Communications sub working group.
- b. Future Briefings:
 - i. Arctic Laboratory Partnership Program.
 - ii. Inputs from specific communities on government or commercial advances from the USSAWG team?
- 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? Should ICE-PPR solicit input from developments from the forecasting/characterizing and/or research community?

7. Looking forward...new initiatives oriented to:

- 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).

8. 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?



9. Roundtable with participating members.

10. Next Meeting,

- a. Communications Sub Working Group: TBD, September 2021, pending no concerns of USSAWG.
- b. Navigation Sub Working Group: TBD, October 2021, pending no concerns of USSAWG.
- c. USSAWG: Tuesday, 2 Nov 2021, 10-11:15 AM Alaska/2-3:15 PM Eastern, pending no concerns of USSAWG.

11. Communications Link:

Microsoft Teams meeting

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ADAC ICE-PPR SAWG Website

<https://arcticdomainawarenesscenter.org/ICE-PPR>

