

# RRT5 Science and Technology Subcommittee Update Spring 2021

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## Freshwater--In Situ Oil Burning (Scott Binko/Eric Pohl leads)

- USCG R&D Freshwater ISB report – covers results from 3 burns
  - brief out (presentation today by Lt. Elizabeth Murphy)
- Continued future research through the Great Lakes Center of Excellence (GLRI funding) particularly focused on air monitoring (use of Unmanned Aerial systems included)
  - Note for endangered species/wild rice in coastal marshes/wetlands
- Eventually transition from S&T to planning and application/response tactic – make sure report is on the RRT5 web site

# Great Lakes Water Levels (Gabrielle Farina for Rachel Pryor)

- Who does what at NOAA
- Synthesis of available products
- Products will include –
  - webpage of NOAA products and services
  - ArcGIS story map
  - Informational video
  - Periodic highlights

## Shoreline cleaner streamlined protocol test (Jon Gulch/Scott Binko/Rachel Pryor)

- Streamlined version sent out for review, call recently to address review comments and see if it is possible to do a streamlined process
- Call planned in a few weeks – contact Jon or Scott if you are not already part of this discussion.

# Other S&T Topics

- **Diluted bitumen in freshwater** literature review – call last winter with Benedette Adewale -- Coast Guard Center of Expertise for the Great Lakes
- NOAA/Fisheries and Oceans Canada **Multi-Partner Research Initiative** (MPRI) oil assays properties and database workgroups – in report writ
- **Unmanned aerial systems**
  - EPA policy can now purchase drones, as well as already in place to use other agency data
  - DOI IOSPP/USGS surface velocity mapping – example of use of drones growing for multiple purposes – perhaps training opportunity?

# Other S&T Topics (cont.)

- Riverine fate/transport –
  - Inland Riverine Oil Spill (**IROS**) Collaboration Area meeting moved to May 13, 2021 @ 1:00 CT
  - **overland spill modeling** gap – breach of holding ponds example – USACE expertise?
- New DOI IOSPP/USGS Great Lakes **river ice mapping** based machine learning of ice cover from satellite derived (Sentinel-1) synthetic aperture radar (SAR) data (similar process developed already for floods)
- PFAS
  - EPA region 5 held a successful meeting in February on PFAS
  - Region 5 EPA and CG presented letter to NRT to consider a united national response