RRT5 Science and Technology Subcommittee Update Spring 2021

Chairs: Faith Fitzpatrick, USGS,fafitzpa@usgs.gov
LT. Rachel Pryor, NOAA, Rachel.L.pryor@noaa.gov
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