



Great Lakes Center of Excellence (Kit Pace, Allie Snider)

- 2026 proposals record breaking number submitted
- 2025 projects 10 new projects started -- see website https://media.defense.gov/2025/Mar/14/2003667415/-1/-1/0/GLCOE%20QPP%20MARCH%202025.PDF

1.2	- Items on Detection	III I TOGICOO	••
FY25 – 01	EMI for Oil Detection (Phase 2)	In Progress	12
FY25 – 02	Great Lakes Toxicity Assessment (TADPOLE)	In Progress	13
FY25 – 03	Detection of Submerged Oil by UV (Phase 2)	In Progress	14
FY25 – 04	Great Lakes Flow Reversals	Pending	15
FY25 – 05	Properties and Fate of Synthetic Fluids	In Progress	16
FY25 – 06	Physiochemical Changes of Oil in Wetland Mesocosms	In Progress	17
FY25 – 07	Biological Responses to Oil Spills using Omics to assess Kinetic Exposures in Streams (BROOKES)	In Progress	18
FY25 – 08	DeepAnalytics Drum Skimmers	In Progress	19
FY25 – 09	Non-Conventional Oil Workshop	Pending	20
FY25 – 10	USCGA Summer 2025 Internship	Pending	21



Unit Website

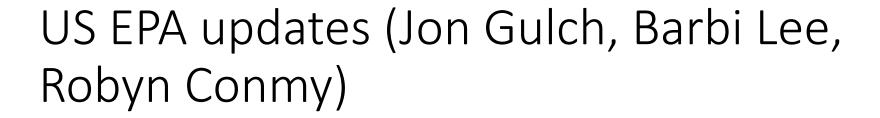
https://www.dco.uscg.mil/GLCOE

Coast Guard Research and Development Updates (Scott Binko)





- Hazardous substances pollution risk working on GIS layer for sensors/monitoring, focused in New Orleans Captain of the Port Zones – Nov 2024
- Night and low visibility conditions technologies to detect oil spills new start
- Alternatives Fuels Spill Response -- new start
- Environment and Waterways Branch Support maintain competency/knowledge, provide rapid response, and external liaison – ongoing



- ORD experimental stream lab research on ecological impacts of oil spills, working mainly with oil exposed water/soluble portion, aquatic toxicity, biodegradation, relation to nutrient cycling
- Examples of underflow dam systems for 5-15 ft wide streams





NOAA S+T updates

- Willie Whitmore interim SSC Great Lakes, continue as SSC for North Atlantic too
- No immediate backfill for Chris Duffy



DOI and USGS Inland Oil Spill Preparedness Program (IOSPP)

- New 2024 IOSPP Projects
 - Surface velocity mapping with fixed wing AK
 - Streamstats TOT update with machine learning and gaging station velocity data
- FY25 IOSPP preproposals have been submitted and under review.
- Multi-partner Research Initiative USGS/Lake Superior State example run of FluOil for the Rainy River.



Shoreline Cleaner Protocol

- Change in NCP product schedules
- Needed to remove protocol from RRT5 sites (done)
- Revisit protocol to make more generic for shoreline cleaners follow-up planned by workgroup – Jon Gulch, Jerry P., Scott B., Barbi L.

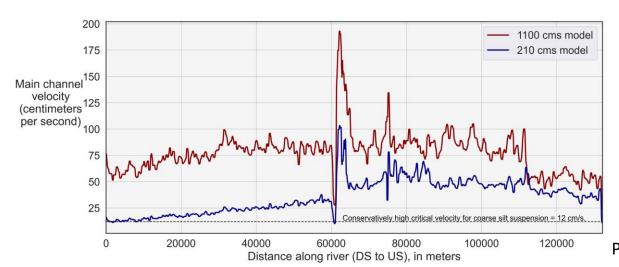
Multi-Partner Research Initiative/Lake Superior State Univ

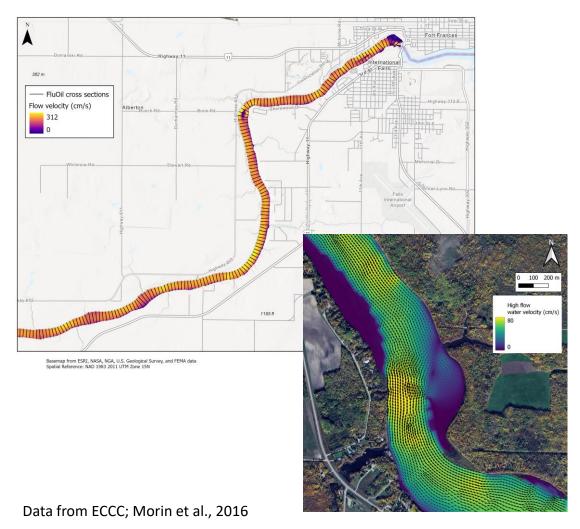


Oil-Particle Interactions Our Waters of the North

Rainy River FluOil model:

- Extracting hydraulic data from existing H2D2 hydrodynamic model
- 100-m spacing
- High (1100 m3/s) and Low (210 m3/s) Flow scenario
- Expecting OPA to maybe deposit downstream of Baudette, MN (??), based on familiarity of soft sediment deposition being mapped as part of another study





Preliminary Information – Subject to Revision. Not for Citation or Distribution.

