

Straits of Mackinac Exercise

September 23-25, 2015

US EPA Perspective and Forward View



Overall EPA Perspective on Straits Exercise

nctional monstrations

Protective Booming of Shoreline: Always a necessary defensive strateg



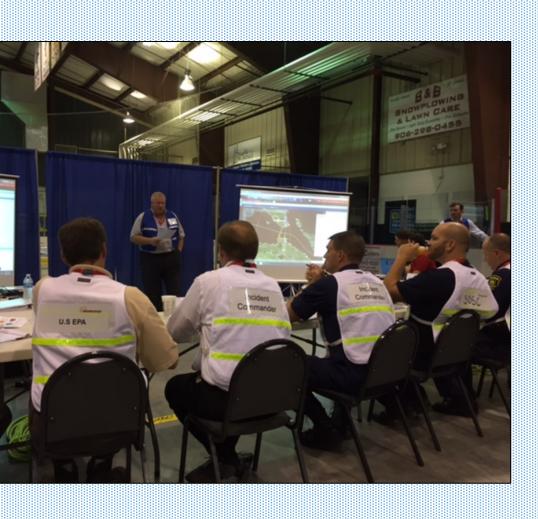


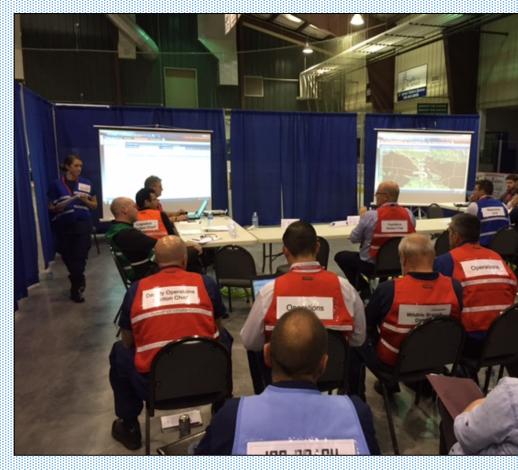
On-Water Recovery:

USCG offshore vessel appropriately sized to work safely in Strait



Response Organization: good as it will get





pecial EPA Exercise Objective

Practice Public Health and Public Safety Response to a Straits Incident

Coordination with:

Mackinac and Tri-County EMAs

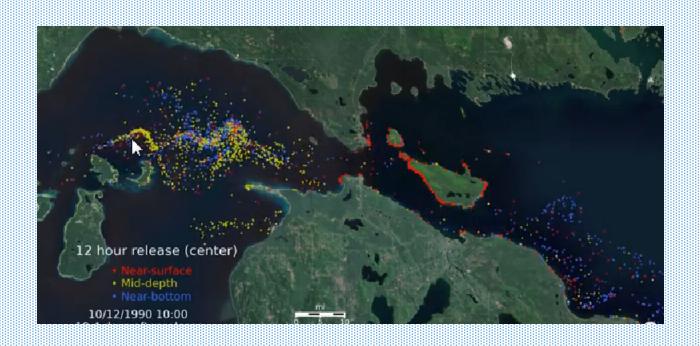
MDHHS

Mac Bridge Authority

Fire Officials on Mac Island and Bois Blanc Island

NOAA

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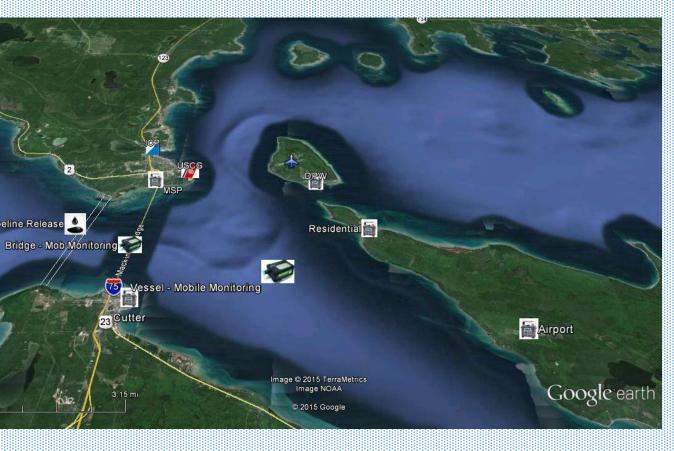


US EPA Exercise Focus

- USEPA's focus: Air Impacts: VOCs, Benzene, H2S
 - Developed air monitoring plan
 - Performed air monitoring/sampling
 - On water
 - Islands
 - Mainland
 - Mackinac Bridge (mobile)
 - Summa canisters
- Relay Data to ICP near real time



Air Monitoring









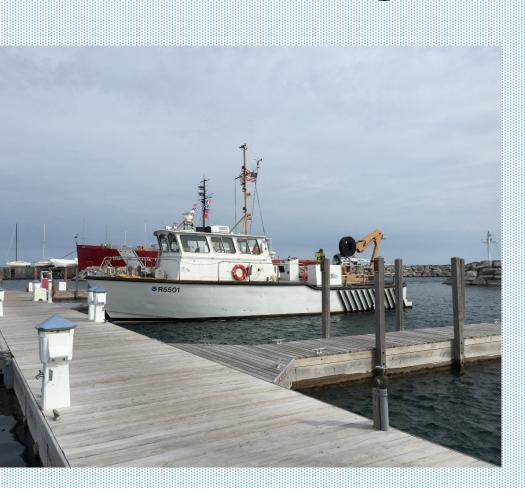
Air Monitoring – Stationary

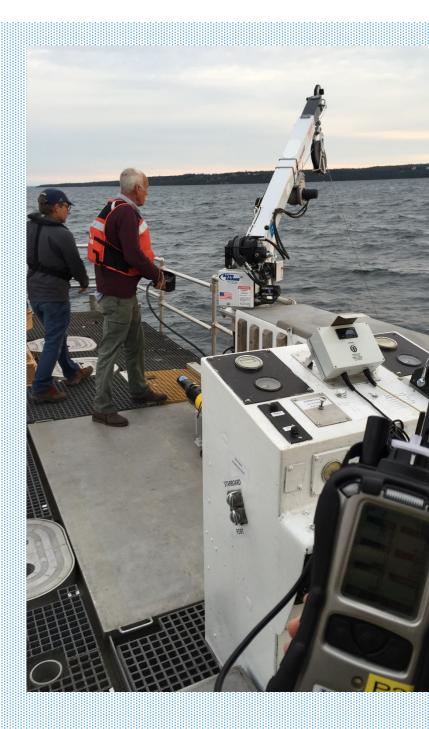




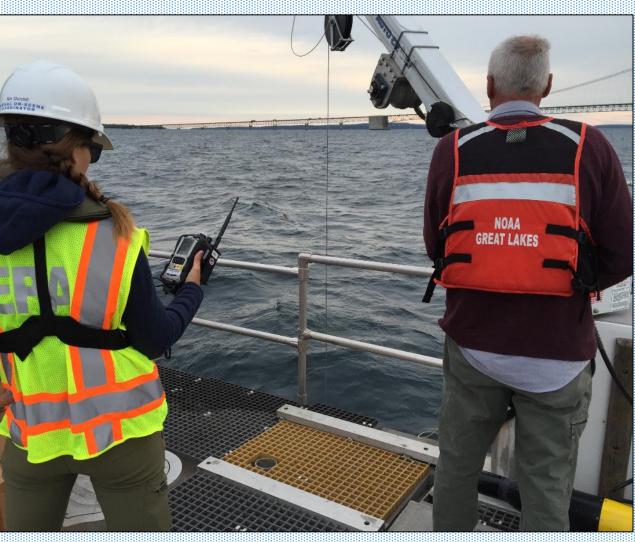


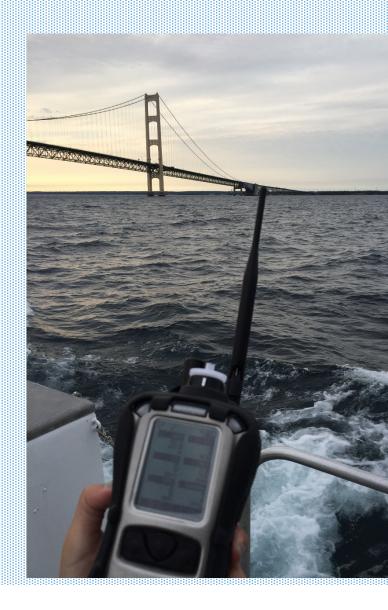
Mobile On Water Monitoring





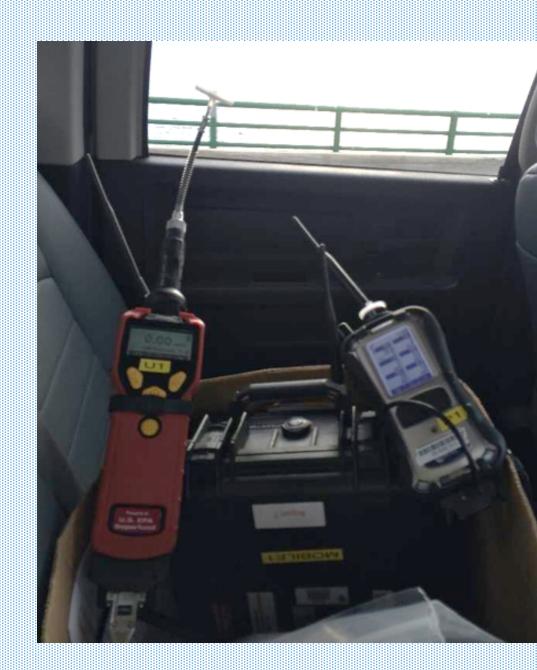






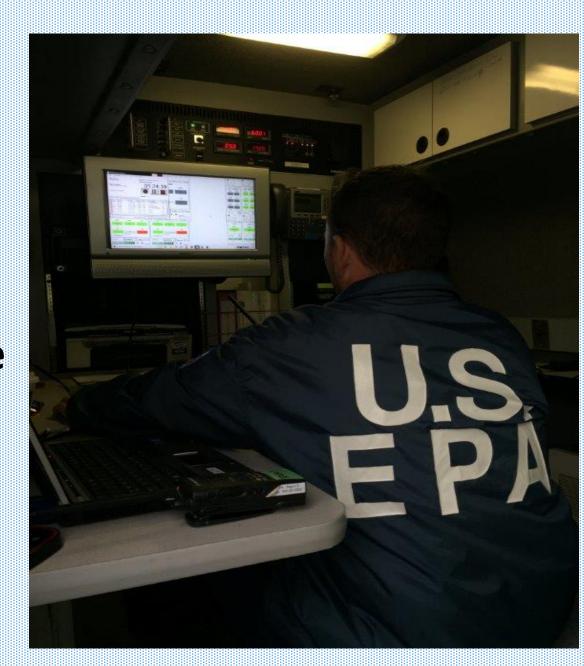


lackinac Bridge Deck ir Monitoring





data streamed real time |CP via VIPER



Air Sampling and Analysis



Summa Canisters and Tedlar Bag sampling



51st WMD Civil Support Team

Portable GC/MS



Coordination with Public Health Officials



Inform Local IC and UC Decisions





Outcome

ted and confirmed our ability to collect the data and transmit it to decision mak er large, complex geographic response area -Successful

reased overall awareness of oil spill implications for public safety and all emergency managers "Oil is not just oil"



Forward View

EPA Perspective on Future Area Contingency Planning and Line 5-Straits Preparedness Considerations Near Bridge



Goal: Recover oil while its recoverable

Northern Michigan Area Plan

Straits GRP US-2 GRP

:

USCG

EPA

PHMSA

Enbridge

Local emergency managers

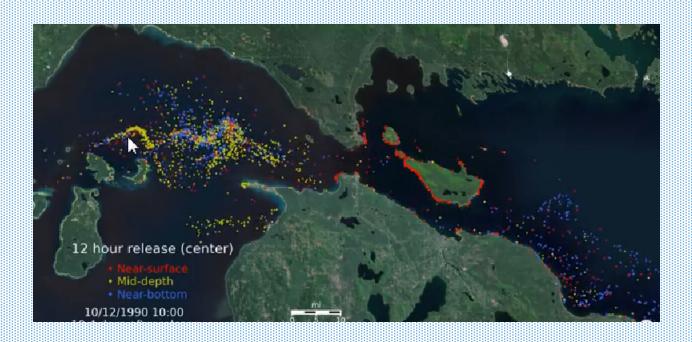
MDEQ,

Tribes

NGOs

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September Nor



ttps://youtu.be/8bx4g-MPiws?list=PLkpBjHvzRryqCzUAeLDxzgrRJOBbN-nBo

Areas of Focus

Up-sized Off-Shore Resources

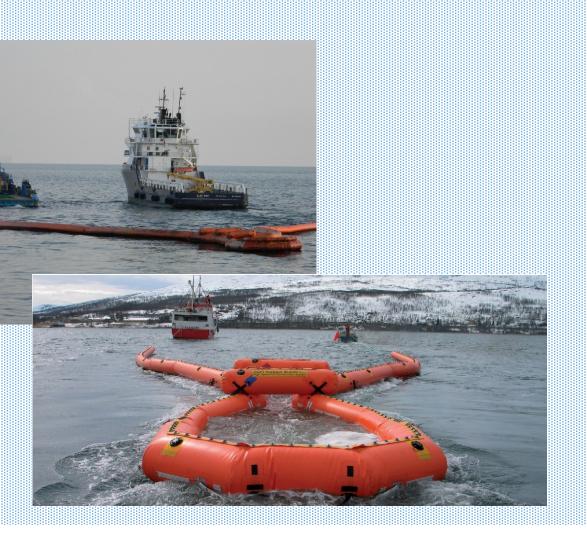
Response Time

Company-owned pre-deployed resources?
OSROs: local and second tier (networks)?
Time to mobilize (air mobilization)?
Vessels of Opportunity (VoOs)?

All of the above

Up-sized offshore skimming and collection (Ocean Buster Skimmer/







VoOs Outfitted with Offshore Skimming Gear



Barges utilizes for near shore skimming



Offshore Vessels utilized for offshore skimming



Mobilization Time



Spill boom Skimmers Pumps







US-2 Corridor

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cises

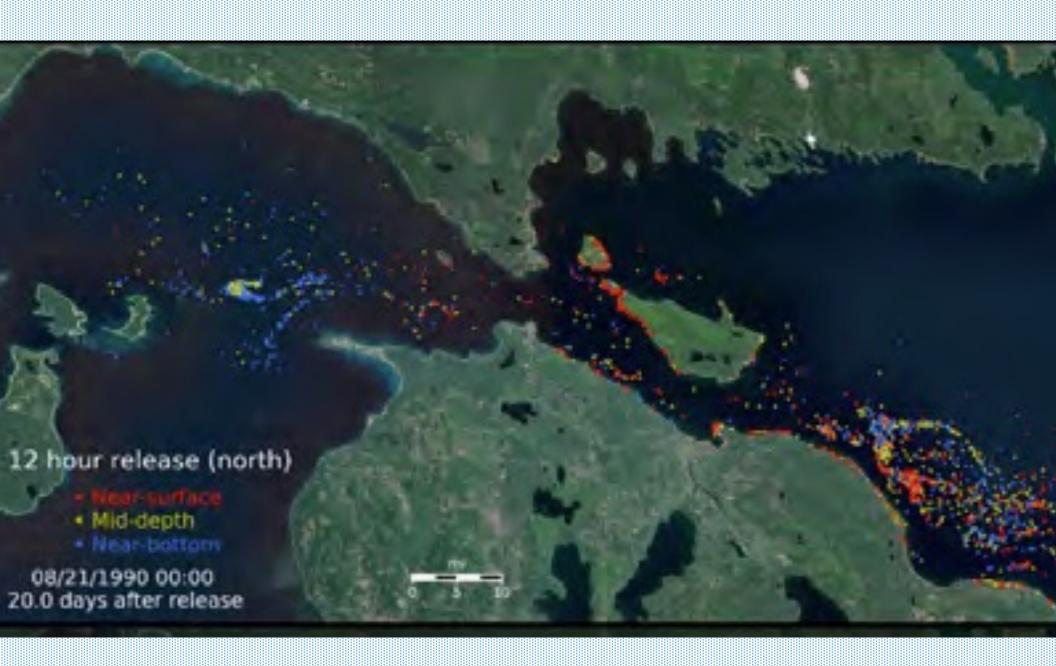
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12 hour release (center)

Near-surface

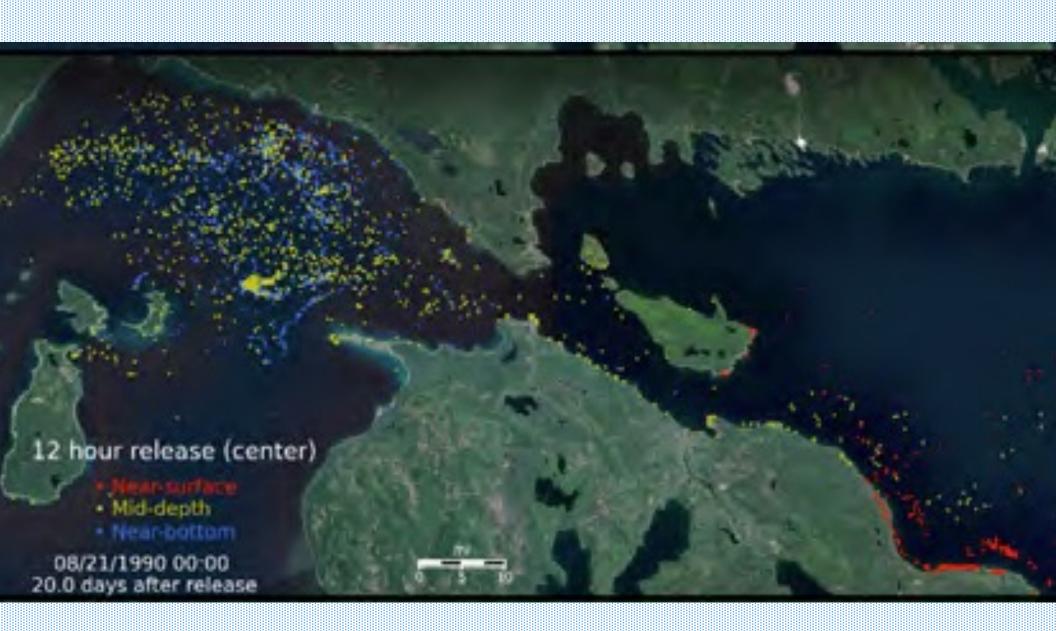
Mid-depth

Near-bottom

10/12/1990 10:00
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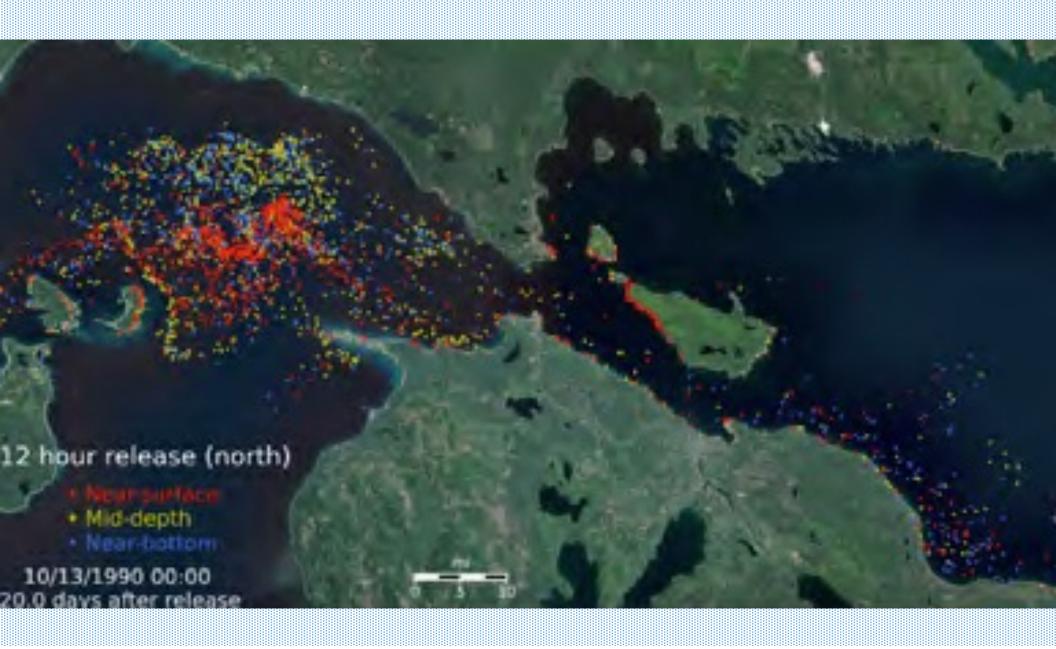
August north

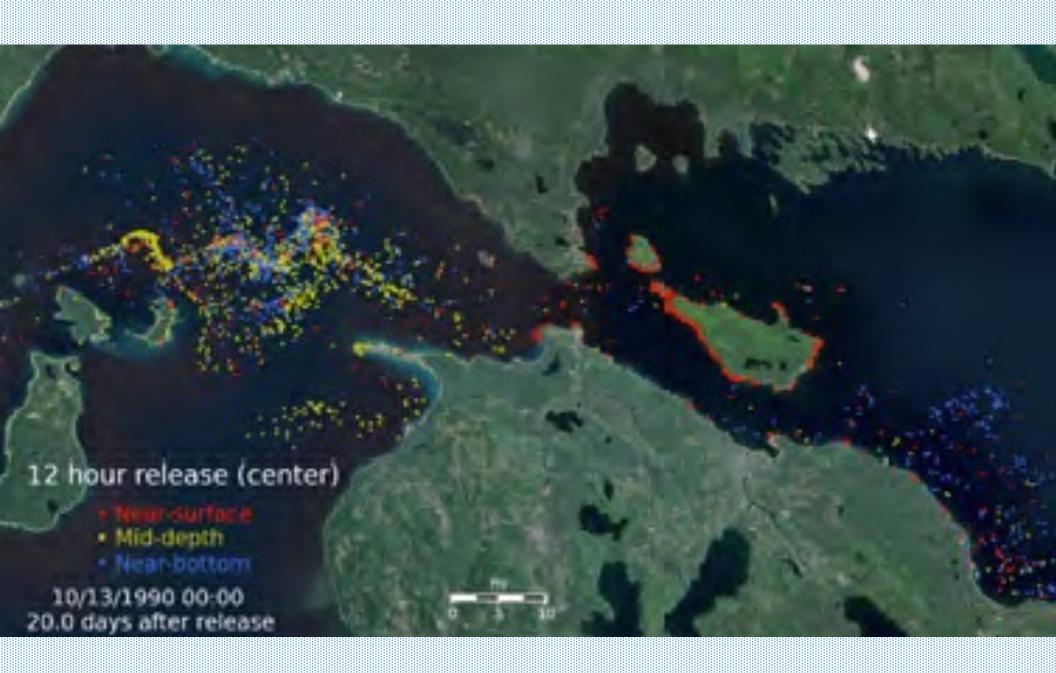


August Center

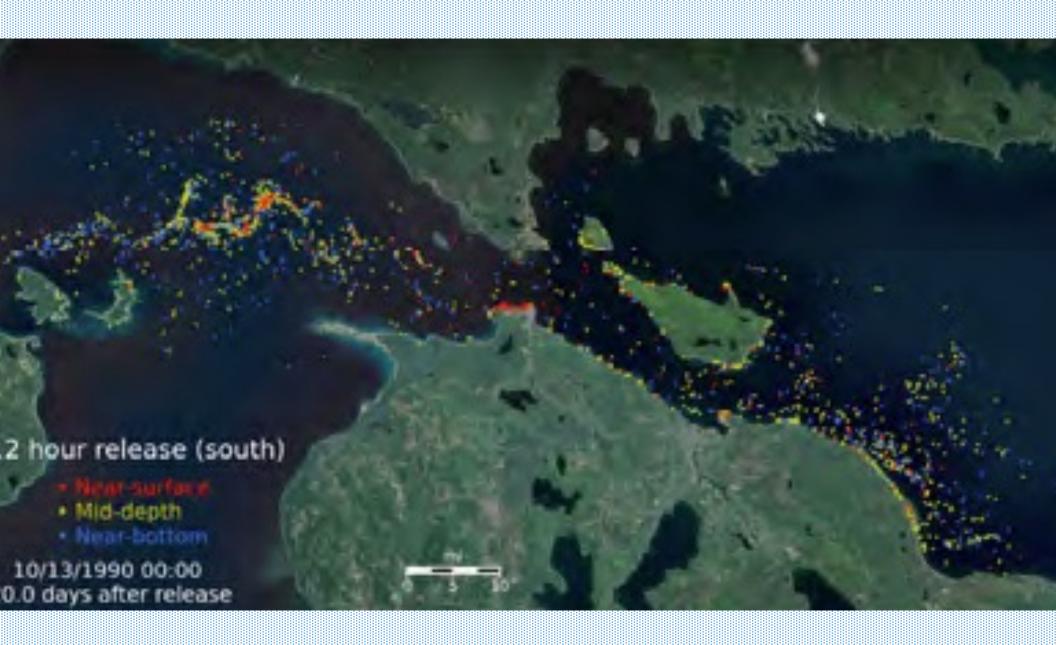


August South





September Center



September South