

The Ontario Great Lakes Vessel Fleet

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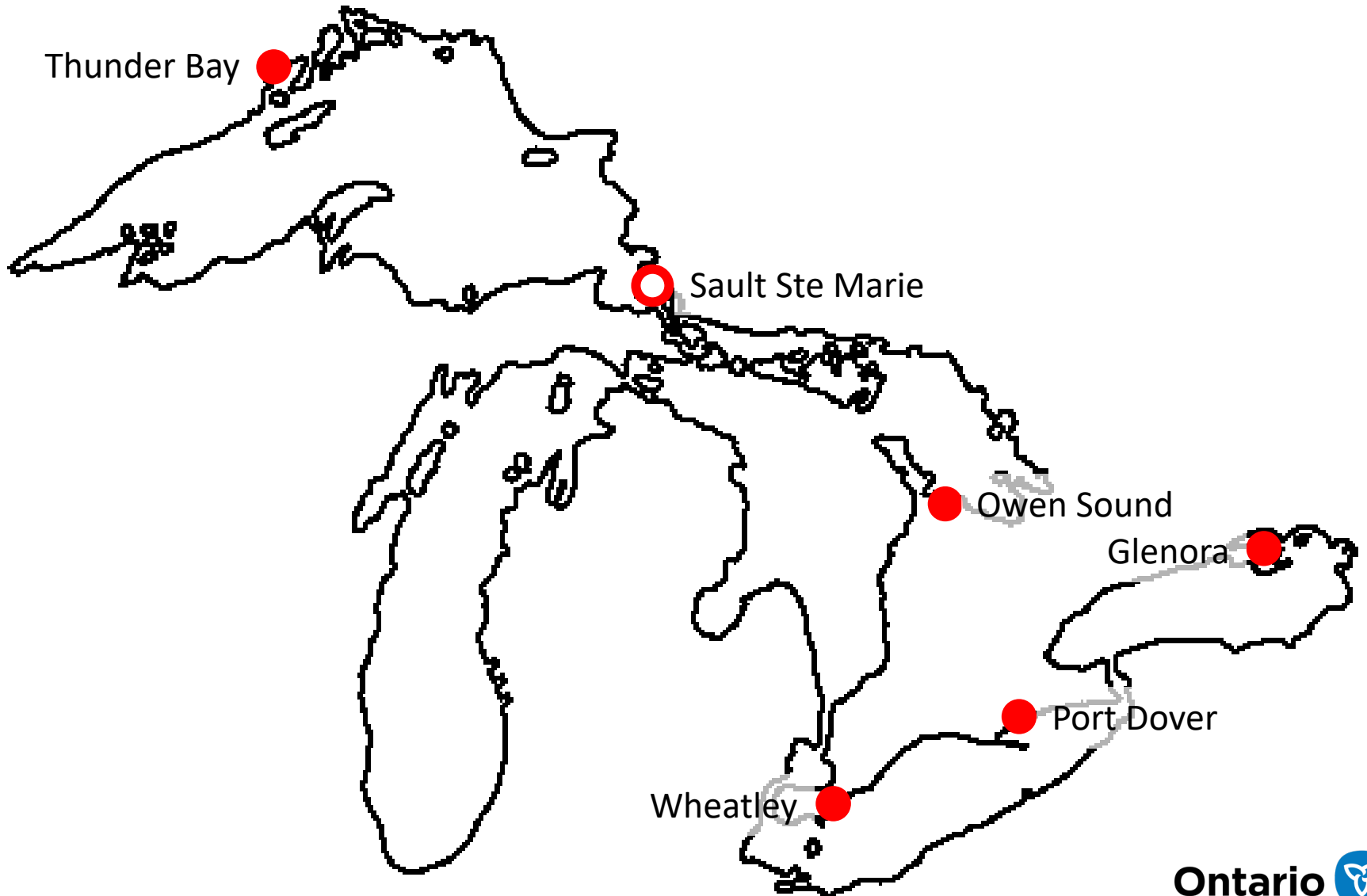
Acknowledgements

- **Dave Montgomery**
- **Brandon Perry**
- **Mike Pinder**
- **Craig McDonald**
- **Danielle Hennink**
- **Jon Chicoine**
- **Brent Metcalfe**



NOAA CoastWatch Jan 26, 2022 1624 GMT

Vessel Bases / Field Offices



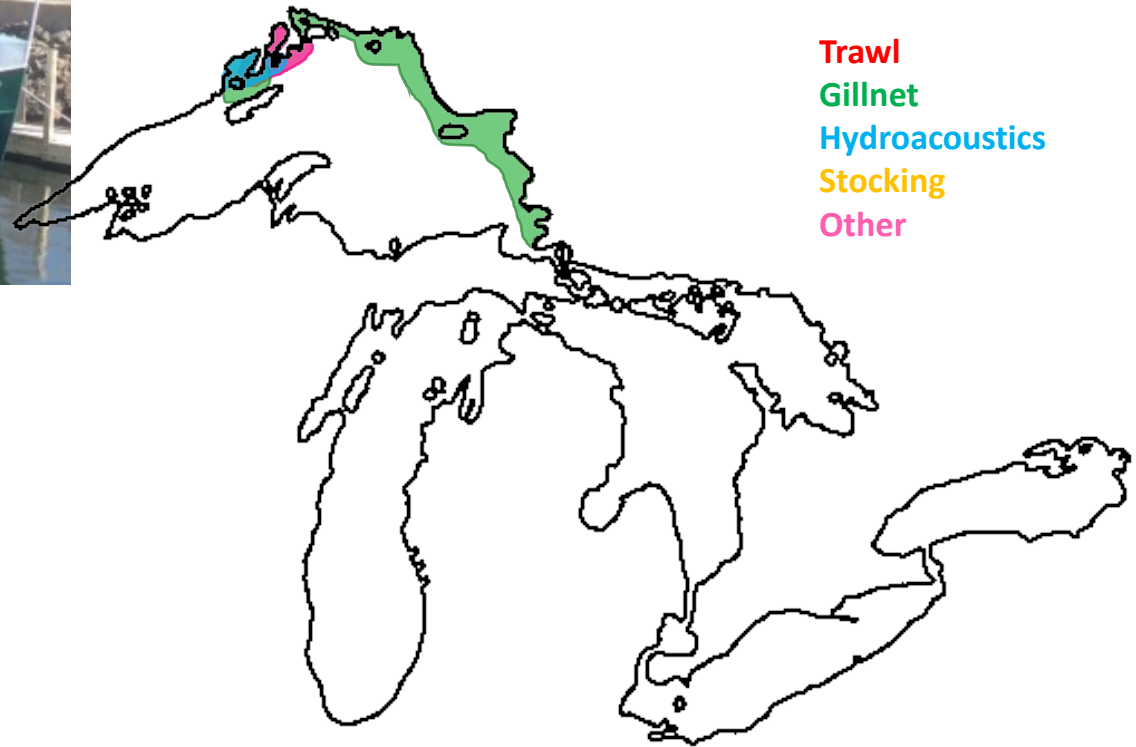
Overview

- **2 MNDRF Branches**
 - **Fish and Wildlife Services Branch – assessment**
 - **Science and Research Branch – research**
- **Mandate: Fisheries Assessment (netting, trawling)**
 - **Aquatic ecosystem (hydroacoustics, telemetry, limnology, etc.)**
- **8 vessels >30'**
 - **34' to 65' (average 52')**
 - **Numerous smaller vessels >24'**
 - **8.4 to 111 tonnes (average 61.3 tonnes)**
 - **Age 1945 to 2021 (average 1991)**





Superior Explorer



Captain: Dave Montgomery

Length: 57'

Beam: 21'

Draft: 6'

Engine: ?? (9 kts)

Displacement: 88 tons

Hull: steel

Year: 1954

Equipment: HIAB crane; gillnet lifter

- Gillnetting
- Hydroacoustics
- Servicing acoustic receivers



Huron Explorer

Captain: Brandon Perry

Length: 65'

Beam: 21.5'

Draft: 6'

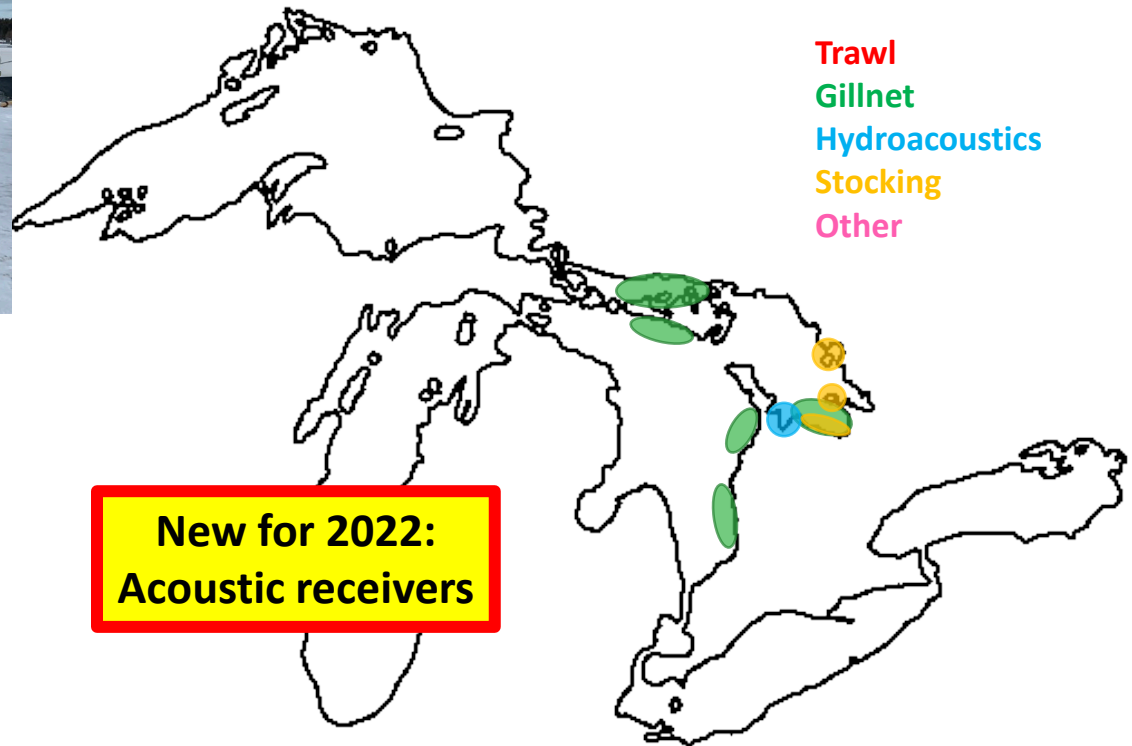
Engine: ?? (9.5 kts)

Displacement: 111 tons

Hull: steel

Year: 2011

Equipment: HIAB B-2 CLX crane; paired trawl winches; auxillary winch; Notus TrawlMaster; gillnet lifter; science davit

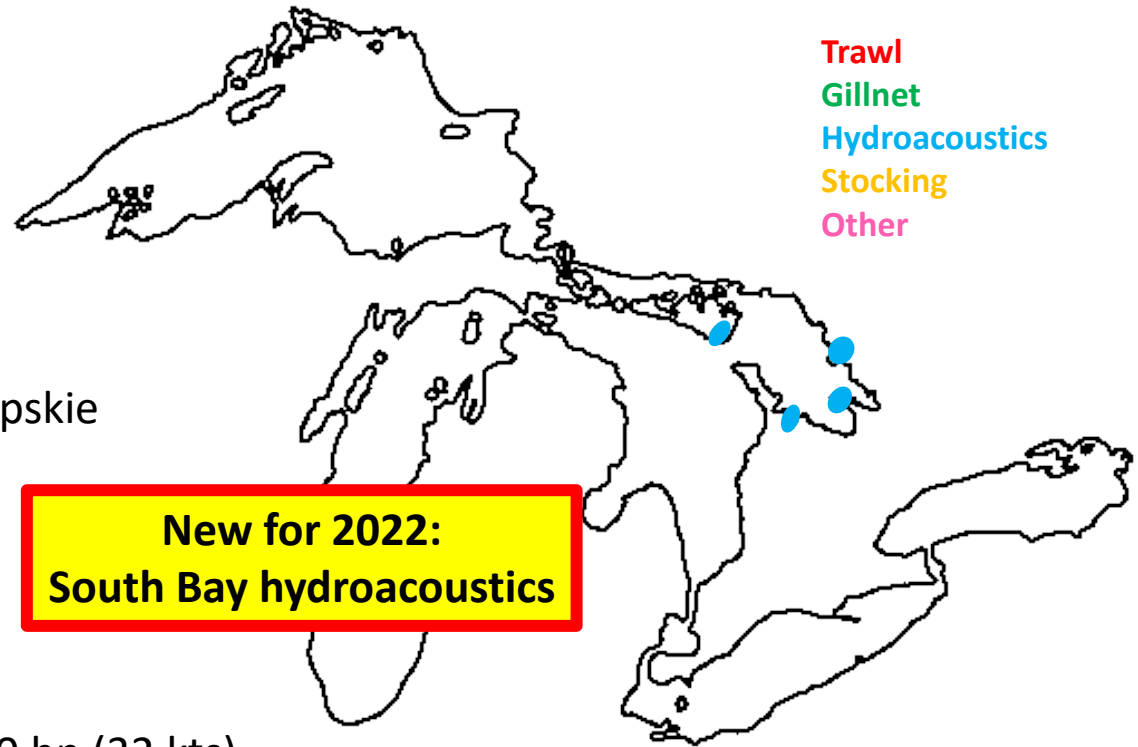


**New for 2022:
Acoustic receivers**

- Gillnetting
- Hydroacoustics
- Offshore stocking



Ekko



Captain: Mike Pinder / Derek Lipskie

Length: 34'

Beam: 11'

Draft: 3.5'

Engine: twin Volvo Penta D4-270 hp (32 kts)

Displacement: 8.4 tons

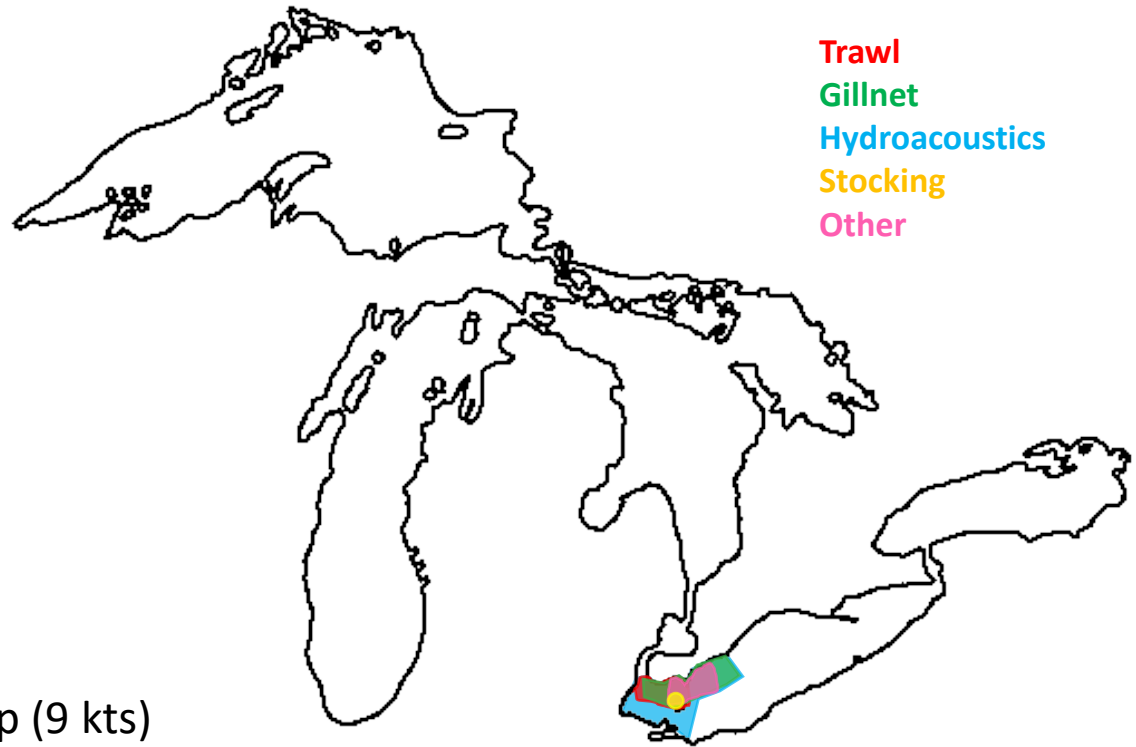
Hull: Aluminum

Year: 2021

Equipment: A-frame; paired davits + HAC transducer mount

- Hydroacoustics (Simrad EK60 – 33, 120 & 333 kHz)
- Kongsberg multibeam system
- Midwater trawling (7.2m headrope, 13.6m length)
- Servicing acoustic receivers

Keenosay



Captain: Craig MacDonald

Length: 58'

Beam: 20.5'

Draft: 4.5'

Engine: Cummins QSM11 295 hp (9 kts)

Displacement: 68.3 tons

Hull: steel

Year: 1989

Equipment: gillnet lifter; HIAB crane; 2 trawl winches

- Gillnetting
- Hydroacoustics (Biosonics 120 kHz)
- Trawling (33' Biloxi BT and 10' x 10' MW)
- Limnology (plankton, Ponar, water, YSI)



Erie Explorer

Captain: Danielle Hennink

Length: 60'

Beam: 20.5'

Draft: 4.8'

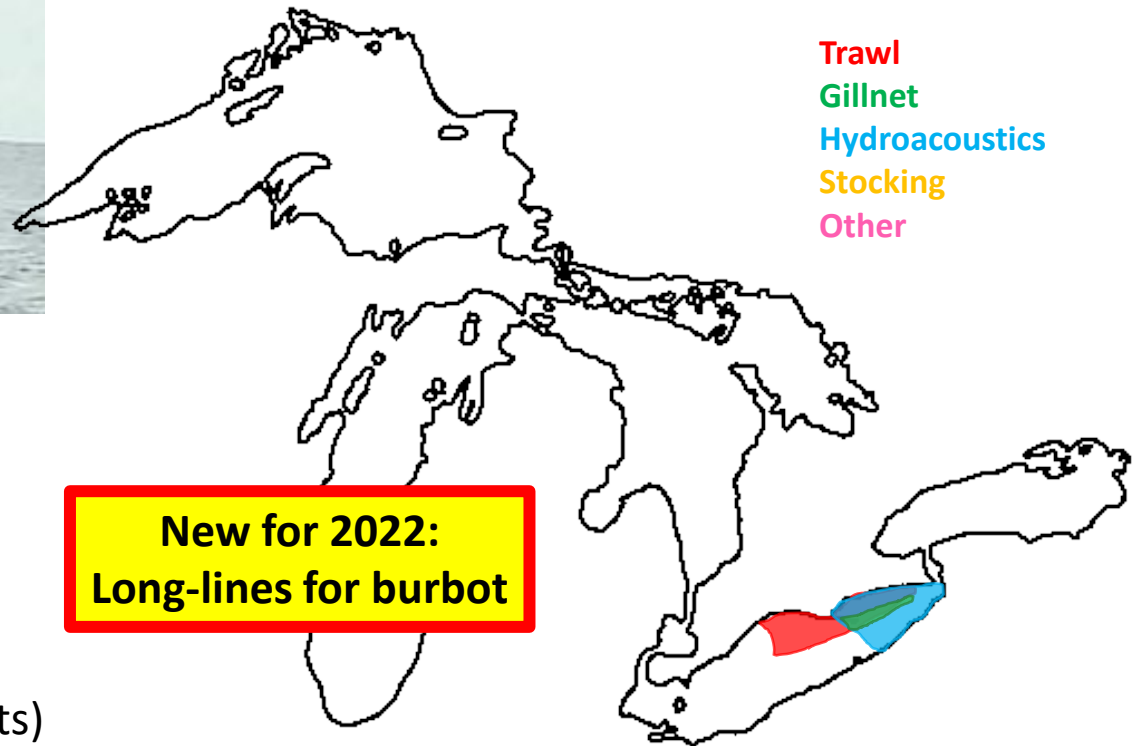
Engine: CAT C12 385 hp (10.4 kts)

Displacement: 72.2 tons

Hull: steel

Year: 1981

Equipment: HIAB crane; gillnet lifter;
trawl winch; net drum

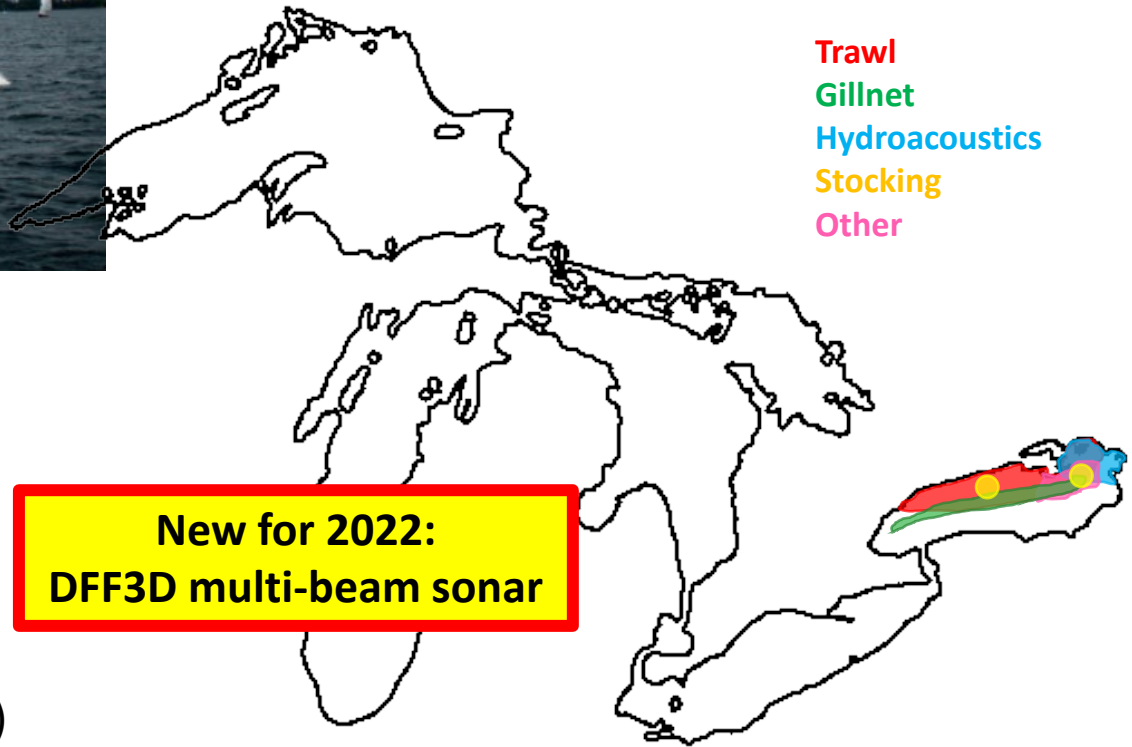


**New for 2022:
Long-lines for burbot**

- Lake trout stocking (May)
- Limnology (YSI, ponar, plankton) (Jun-Nov)
- Hydroacoustics (July)
- Gillnetting (July-Aug)
- Trawling (33' Biloxi BT / 10' x 10' MW) (Sept-Oct)
- Acoustic receivers (Sept-Oct)



Ontario Explorer



Captain: Jon Chicoine

Length: 65'

Beam: 21.5'

Draft: 6'

Engine: Cat C12 341 hp (9.5 kts)

Displacement: 111 tons

Hull: steel

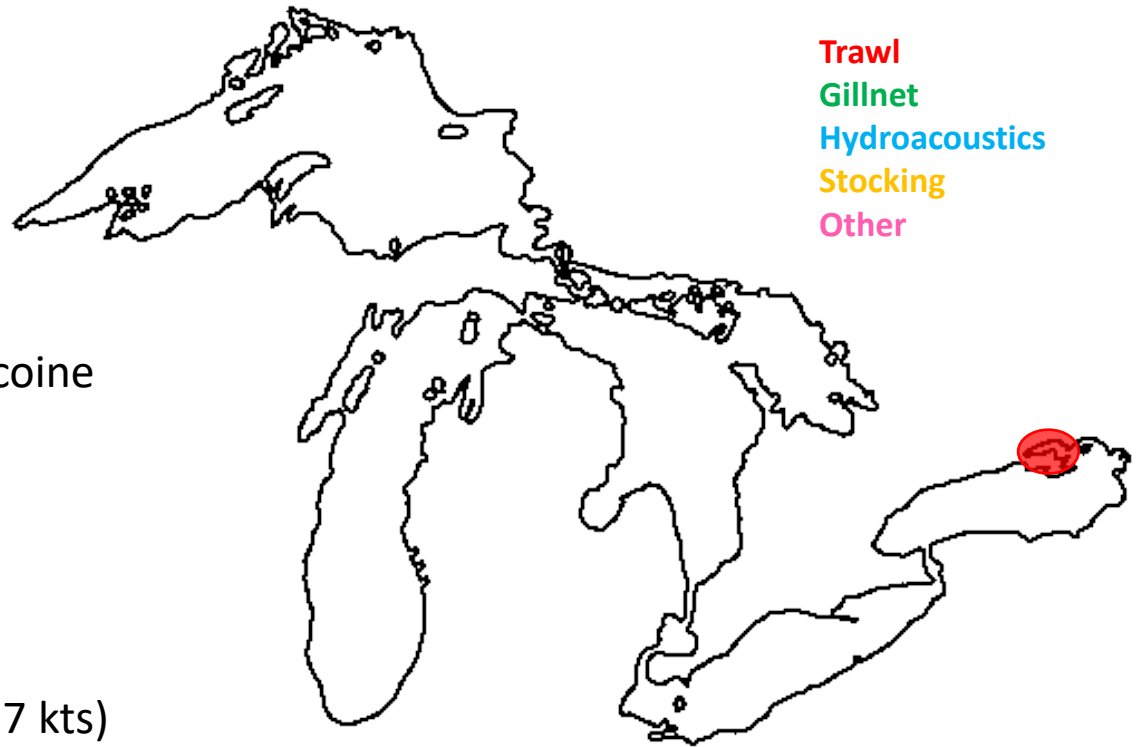
Year: 2010

Equipment: HIAB crane; paired trawl winches; net drum; aux winch; Notus TrawlMaster; gillnet lifter; science davit

- Bottom trawling (April-May)
- Lake trout stocking (May)
- Acoustic receivers (June)
- Midwater trawling (July)
- Bottom trawling (Sept-Oct)
- Bloater stocking (Nov)



Steelcraft



Trawl
Gillnet
Hydroacoustics
Stocking
Other

Captain: Tyson Scholz / Jon Chicoine

Length: 45'

Beam: 12'

Draft: 4.5'

Engine: Detroit Diesel 6V-71 (8.7 kts)

Displacement: 23 tons

Hull: steel

Year: 1945

Equipment: gillnet lifter; 2 cable winches;
net drum

- Gillnetting (Jun-Sept)
- Trawling (3/4 Yankee) (Jun-Sep)



Jack Christie



Captain: Tim Johnson / Brent Metcalfe

Length: 34 feet

Beam: 11 feet

Draft: 3.5 feet

Engine: twin Volvo Penta D4-270 hp (32 kts)

Displacement: 8.4 tons

Hull: Aluminum

Year: 2021

Equipment: A-frame; paired davits

**New for 2022:
Everything 😊**

- Servicing acoustic receivers (May-Aug)
- Limnology (May-Oct)
- ROV / underwater videography
- Midwater trawling

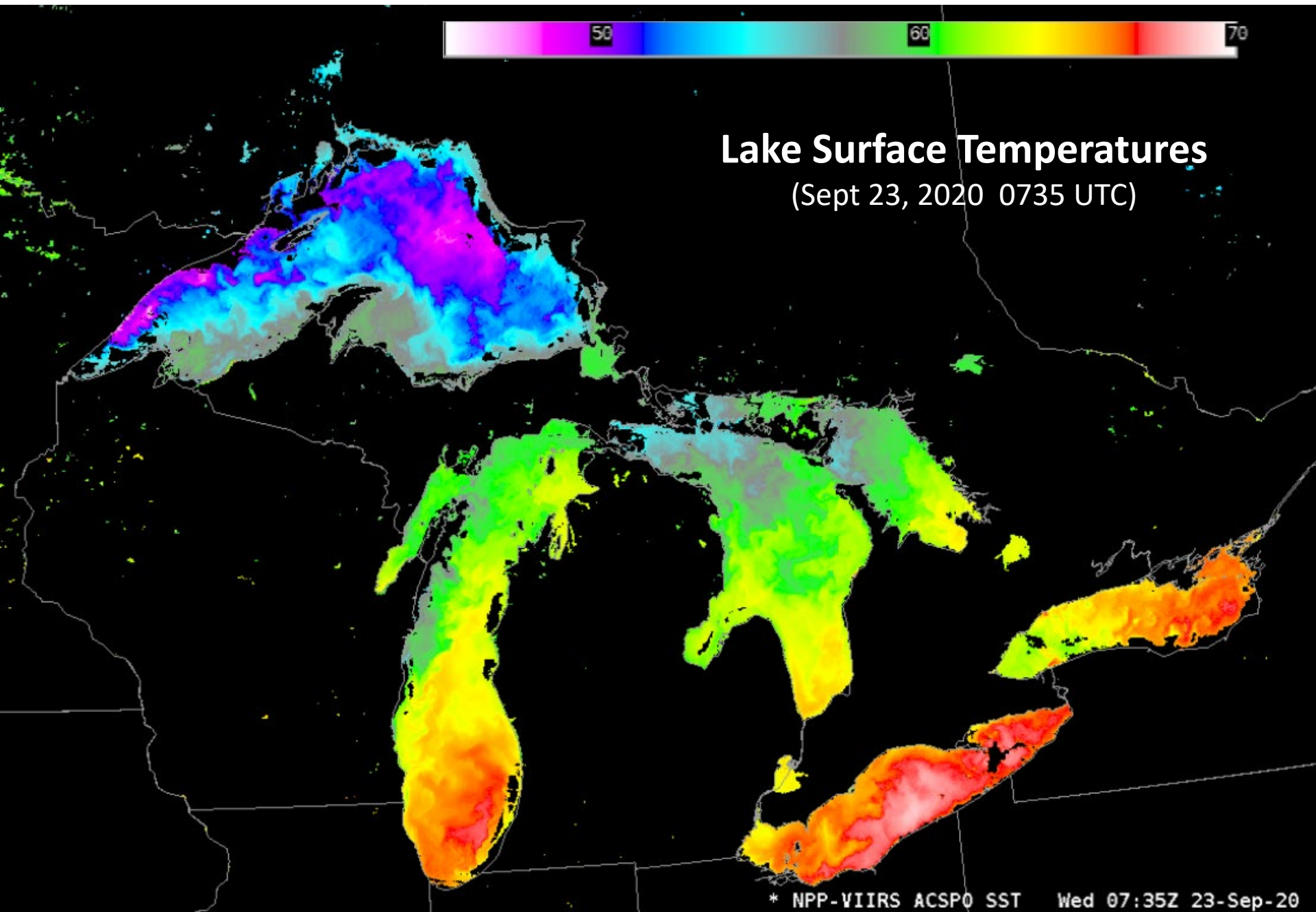
The Ontario Great Lakes Vessel Fleet

- **8 vessels on 4 Great Lakes**
 - **5 large vessels (>50 tons / > 50')**
 - **3 medium vessels (>10 tons / > 30')**
 - **Numerous small vessels (>24')**
- **Two newest vessels “Ekko” and “Jack Christie” added in 2021**
 - **Ontario Explorer 4 yr yard inspection winter 2021**
- **Fisheries centric sampling**
 - **Gillnetting & trawling**
 - **Hydroacoustics**
 - **Servicing acoustic arrays**



Lake Surface Temperatures

(Sept 23, 2020 0735 UTC)



* NPP-VIIRS ACSP0 SST Wed 07:35Z 23-Sep-20