

# **Great Lakes and Marine Industry News Update**

**October 2022**



**Blast from the past:  
Boblo Boat, Ste.  
Claire, could be  
ready for public in a  
year**

**Generations of  
Detroitters have a soft  
spot in their hearts for  
Boblo Island and the  
Boblo Boats. Many  
thought the Detroit  
icons were a thing of  
the past following the  
fire on the Ste. Claire  
in 2018. However,  
renovations are  
ongoing, and the  
public might be able  
to visit a Boblo Boat  
again soon.**

**Steamer Ste. Claire in 1987.**

Robert A. Zeleznik Photo / MHSD



***S. T. Crapo  
approaches the  
Blue Water  
Bridge in the  
waning minutes  
of her time on  
the open waters  
of Lake Huron.***

*Michael Koprowicz  
image, September 26*



The mood in the Motor City turned somber midafternoon as 95-year-old S.T. Crapo, once a member of the Detroit-based Port Huron Cement fleet, was gently guided down the river by tugs Molly M 1 and Manitou on the way to her deathbed in Port Colborne. Fittingly, the Crapo will now get one last extended look at the place of her birth directly across the river, once home to shipbuilding giant Great Lakes Engineering Works.

*Andrew Russell image, September 26*



***Federal  
Frontier  
comes over  
the horizon  
of Lake Erie  
face-to-face  
with a giant  
waterspout.***

*Brad Wood  
image,  
September 25*

*Brad Wood*



## **Congratulations**

**Capt. Kent Simpson**

**Appointment as Director –  
Centre for Marine Training  
and Research, Georgian  
College, Owen Sound**

**Representative for our  
Corporate Member  
Georgian College's Centre  
for Marine Training and  
Research**

# From the Past

**September 26, 1937, the Canadian Seaman's Union signed a tentative wage contract. Sailors would continue a two watch system (working 12 hours every 24 hours) and be paid the following monthly wages:**

**Wheelsmen and Oilers - \$72.50,**

**Watchmen and firemen - \$67.50,**

**Second Cooks - \$52.50,**

**deckhands and coal passers - \$50.00,**

**porters - \$45.00,**

**Chief Cooks on the Upper Lakes - \$115.00,**

**Chief Cooks on Canal boats - \$105.00.**

**As a result of the collision between the PARKER EVANS and the SIDNEY E SMITH JR, four months earlier, alternate one-way traffic between the Black River Buoy and Buoys 1 and 2 in Lake Huron was agreed upon by the shipping companies on October 4, 1972**





**CHARLES  
M. WHITE  
was  
christened  
at  
Baltimore,  
Maryland,  
on  
September  
20, 1951.**



Shipwreck hunters have found the wreck of Barge 129, one of the dozens of innovative "whaleback" vessels, built mostly in Duluth-Superior at the end of the 19th century. The barge is shown here taking on a load of coal at some point before it sank in Lake Superior in October 1902. 🚩 Courtesy Great Lakes Shipwreck Historical Society

The Great Lakes Shipwreck Historical Society announced the discovery of Barge 129 on Wednesday — a day shy of the 120th anniversary of its sinking. The cargo ship, built in Superior, Wis., and based in Duluth, was found 35 miles off Vermilion Point in 650 feet of water. It was discovered in 2021 alongside eight other wrecks, including the Atlanta, but researchers didn't positively identify the ship until they sent down a remotely operated vehicle in August.



***A trifecta of cruise ships at Mackinac Island Thursday included twin sisters Ocean Navigator and Ocean Voyager at the dock along with Viking Octantis and her tenders farther out in the harbor. Star Line Mackinac Island Ferry Company image, September 22***

# Tanker explodes, burns

September 17, 1990



JOHN LUKE/Detroit Free Press

The tanker M.V. Jupiter burns in the Saginaw River near Bay City. Three crew members were hurt in Sunday's explosion; one was missing.

At about 8:30 a.m. Sunday, September 16, 1990, the inbound motor ship BUFFALO passed close by while the tanker JUPITER was unloading unleaded gasoline at the Total Petroleum dock in the Saginaw River near Bay City, Michigan. As the BUFFALO passed the dock's aft pilings broke off and the fuel lines parted which caused a spark and ignited the spilled fuel. At the time 22,000 barrels of a total of 54,000 barrels were still aboard. Flames catapulted over 100 feet high filling the air with smoke that could be seen for 50 miles.

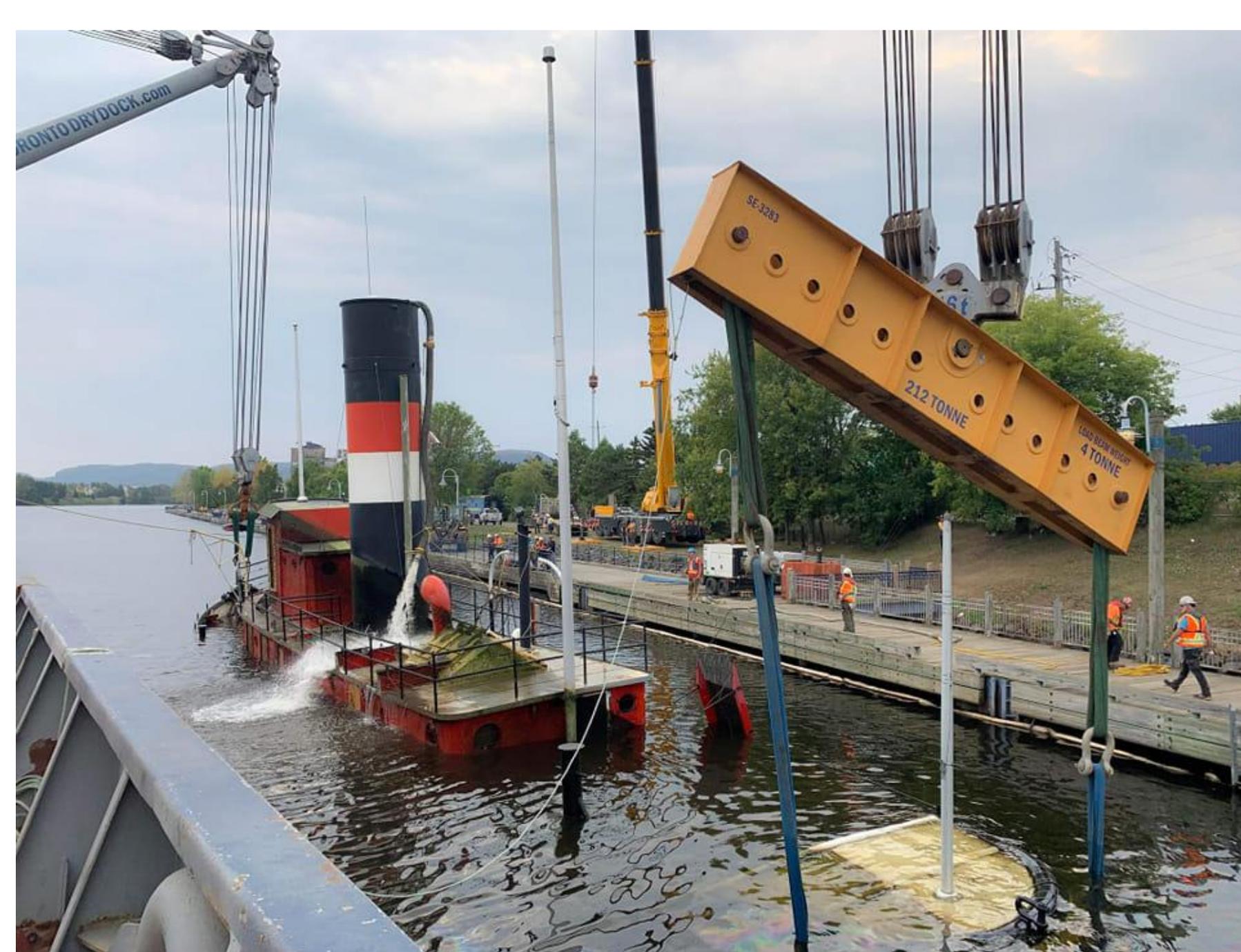


**SAULT STE. MARIE, MI – Two men with strong ties to the Great Lakes maritime industry were honored at a Mariner of the Year awards dinner Friday night in Sault Ste. Marie.**

**Honored were Kevin E. Sprague (left) and Paul LaMarre Jr. (right) Sprague served as the Soo Area Engineer for the U.S. Army Corps of Engineers until his recent retirement. LaMarre was an executive with Gaelic Towing out of Detroit and a marine artist. Capt. John Wellington of Sault, Michigan centres the two recipients.**

## James Whalen tug raised from Kaministiquia River

THUNDER BAY, ON –  
Months after it sank at  
its berth along the  
Kaministiquia River, the  
historic James  
Whalen tugboat has  
been raised, though not  
without a notable  
mishap along the way.  
Crews began lifting the  
117-year-old boat using  
a heavy lift barge,  
cranes, pumps, and  
other specialized  
equipment on Sept. 9,  
2022.



# **Lake Erie Fact**

**The southernmost of the Great Lakes, Erie is bordered by Ontario to the north, Michigan to the west, Ohio and Pennsylvania to the south, and New York to the east.**

**At 25,655 square kilometres, it is the fourth-largest in size; its 484 cubic kilometres give it the lowest volume of water.**

**And it has the shortest water replacement time in the system, meaning it would take just over two and a half years to empty (compare that to Lake Superior, at 173 years).**

# Statement by Minister Alhabra on World Maritime Day

NEWS PROVIDED BY

[Transport Canada](#) Sep 29, 2022,

**OTTAWA, ON, Sept. 29, 2022 /CNW/ - The Minister of Transport, the Honourable Omar Alhabra, issued this statement today on World Maritime Day:**

**"Today is World Maritime Day—a day to recognize the important role marine transportation and marine workers play in keeping our supply chains moving. Trade on our waters from coast-to-coast-to-coast is central to ensuring all Canadians have the goods they need on time.**

**"With the world's longest coastline and bordering three oceans, Canadians expect a safe and effective marine system that keeps our supply chain strong, keeps our coastlines clean, and protects our marine environments. This year's International Maritime Organization's World Maritime Day theme—new technologies for greener shipping—represents the importance of fighting climate change, and the progress we've already made in the marine sector.**

## Canadian Coast Guard names light icebreaker - the CCGS Judy LaMarsh

PRESCOTT, ON, Oct. 3, 2022 /CNW/ - **The Canadian Coast Guard recently purchased a light icebreaker that will supplement its operations in the Great Lakes, St. Lawrence, and Atlantic regions.**

**Today, the Parliamentary Secretary to the Government House Leader and Member of Parliament for Kingston and the Islands, Mark Gerretsen, officially announced that the Canadian Coast Guard's newest light icebreaker has been named the CCGS *Judy LaMarsh*.**



Carl Burkett photo

**•The Honourable Judy LaMarsh was one of the first women to serve as a federal Cabinet Minister and helped establish innovative federal programs such as Medicare and the Canada Pension Plan. She is recognized as a trailblazer for women's rights in Canada and is a recipient of the Order of Canada.**



Today (Oct. 17, 2022), the Canadian Coast Guard Ship (CCGS) *Vincent Massey* was delivered to the CCG upon completion of conversion work by Chantier Davie in Lévis, Quebec. The CCGS *Vincent Massey* has arrived at its homeport in Québec City, Québec to prepare for the upcoming icebreaking season. The vessel joins the fleet of medium icebreakers that serve to keep Eastern Canada's waterways open and safe throughout the winter months.

**CCGS Vincent Massey  
leaving Lévis, Quebec** | Photo  
credit: Chantier Davie (CNW Group/Canadian  
Coast Guard)

# OCEAN GROUP ACQUIRES VERREAUULT SHIPYARD

NEWS PROVIDED BY  
[OCEAN GROUP INC.](#) Oct 05, 2022

**CITY OF QUÉBEC, Oct. 5, 2022 /CNW Telbec/ - Ocean Group is proud to announce the acquisition of the Verreault shipyard, located in the municipality of Les Méchins, in the Gaspé Peninsula. With this transaction, Ocean Group is increasing its capacity, enhancing its expertise and adding a hundred competent and committed workers to its workforce.**

**The Gaspé Peninsula shipyard is equipped with a 244-metre long and 56-metre wide dry dock. Ocean Group is also adding to its fleet the two Verreault tugs that currently provide service at the Les Méchins and Matane docks.**

**For our 50<sup>th</sup> anniversary, we are giving ourselves all the tools we need to better face the exciting challenges that the future promises «declared Jacques Tanguay, President and CEO of Ocean Group.**

**This acquisition is a vector of stability and growth for the Gaspé Peninsula shipyard and its workers.**

**" We share the same corporate values and a common vision for the industry with Ocean Group. A vision that is synonymous with prosperity for our shipyard, where our expertise will be put to good use in the many current and future projects. The best way to envision the future and sustainability of our company was to join Ocean Group," said Richard Beaupré, President and Chief Operating Officer of Verreault Shipyard.**



## SEAWAY MONTHLY TRAFFIC RESULTS

### September 2022

Traffic (in thousands of tonnes)	SLSMC - Combined Traffic			
	Year to Date		Change from 2021	
	2021	2022	Tonnes	%
Total Cargo	24 756	23 361	-1394	-5.63%
All Grain	5 821	4 934	-886	-15.23%
Iron Ore	5 379	4 789	-590	-10.97%
Coal	1 466	1 247	-220	-14.99%
Dry Bulk	7 388	7 793	404	5.47%
Liquid Bulk	2 130	2 463	333	15.64%
General Cargo	2 512	2 113	-399	-15.87%

Vessel Transits	2021	2022	Transits	%
Total Transits	2 587	2 664	77	2.98%

The St. Lawrence Seaway Management Corporation



***S. T. Crapo and Ojibway at  
Marine Recycling, Port  
Colborne.***

***The sun shines on the  
elderly ladies in their final  
days.***

*Bill Salton image,  
September 29*



# NEW LOCK AT THE SOO



**Current Facility**



**Future Facility**

New lock will have **same dimensions** as existing Poe Lock (1200 ft length by 110 ft width and a depth of 32 ft)



# PHASE 2: UPSTREAM APPROACH WALLS



## 2022 PROGRESS



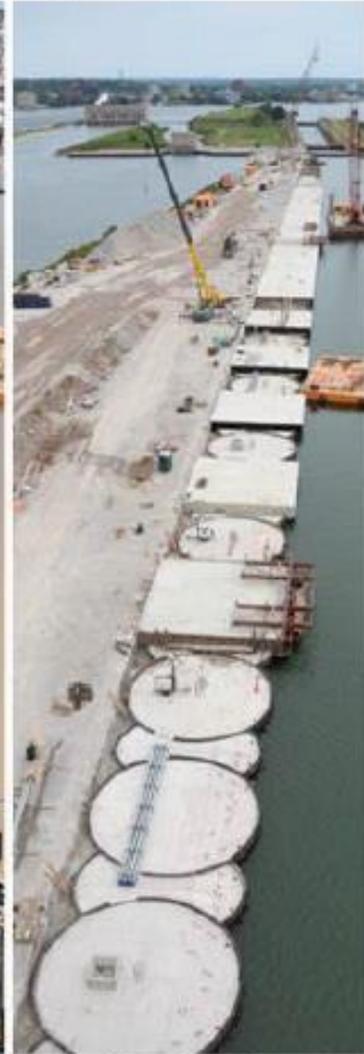
**Apr 2022**



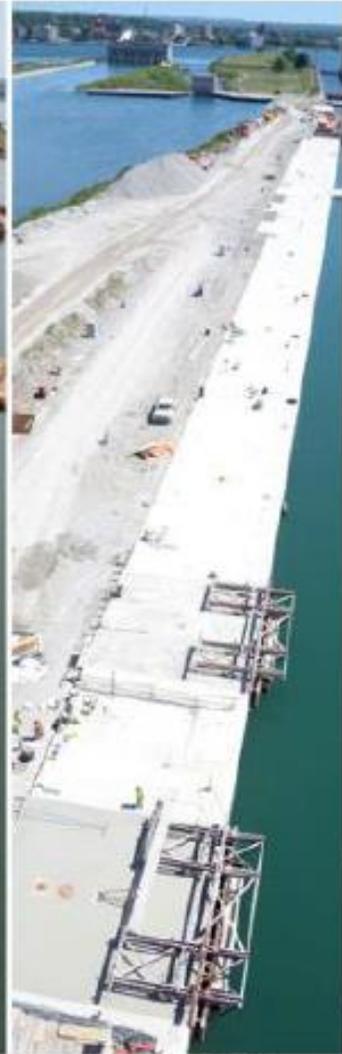
**May 2022**



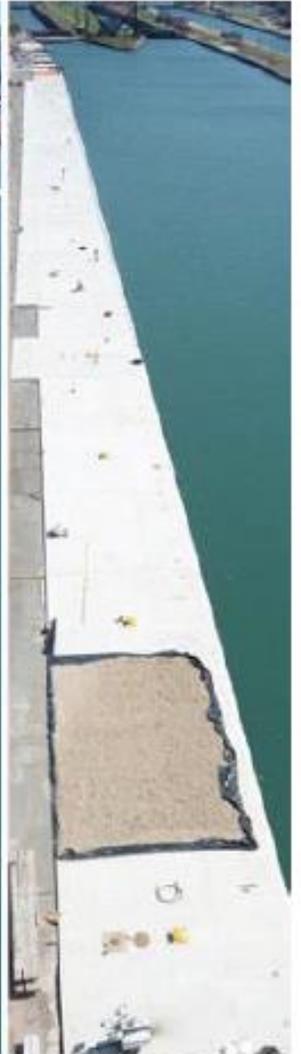
**Jun 2022**



**Jul 2022**



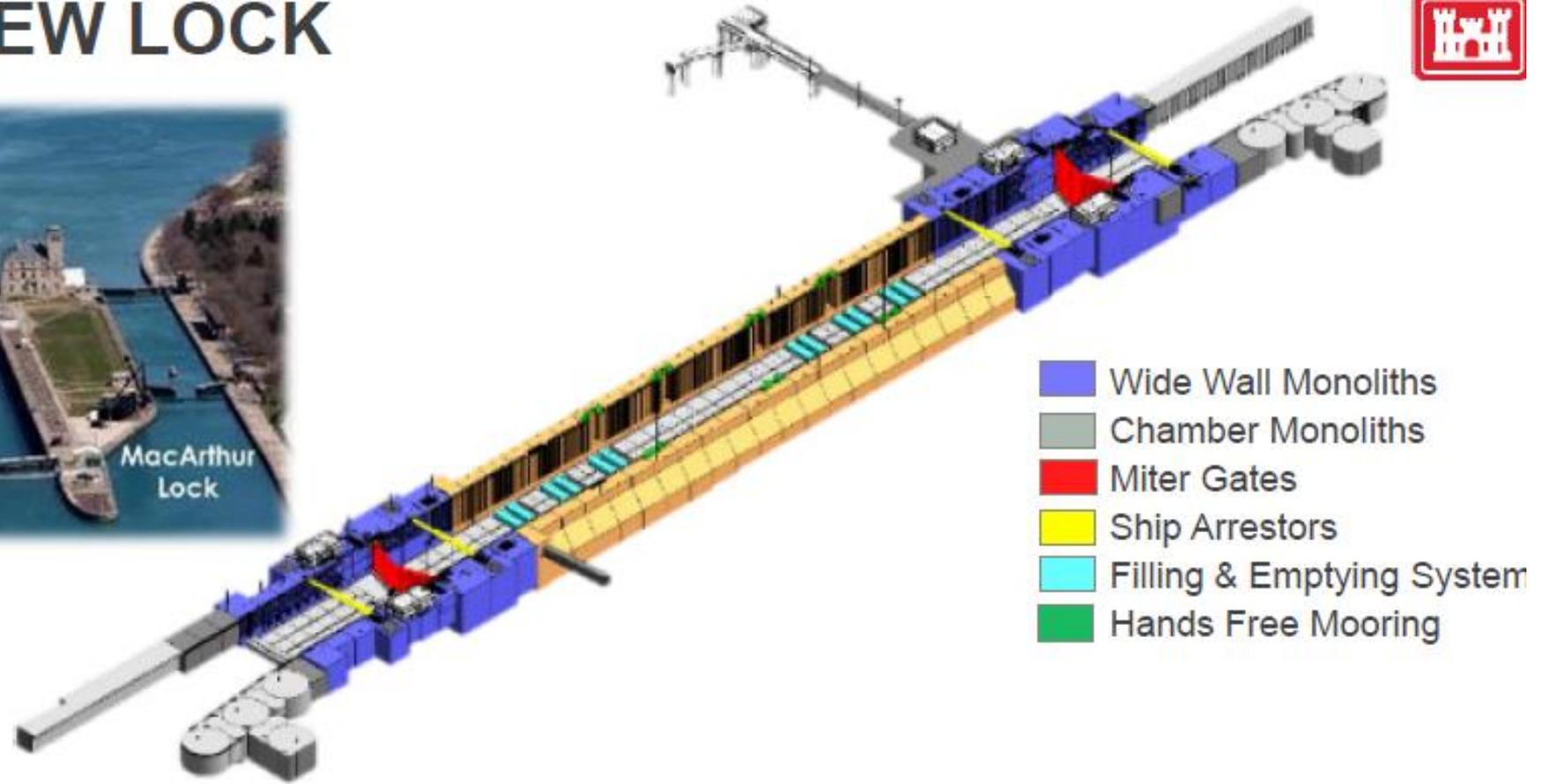
**Aug 2022**



**Sep 2022**



# PHASE 3: NEW LOCK



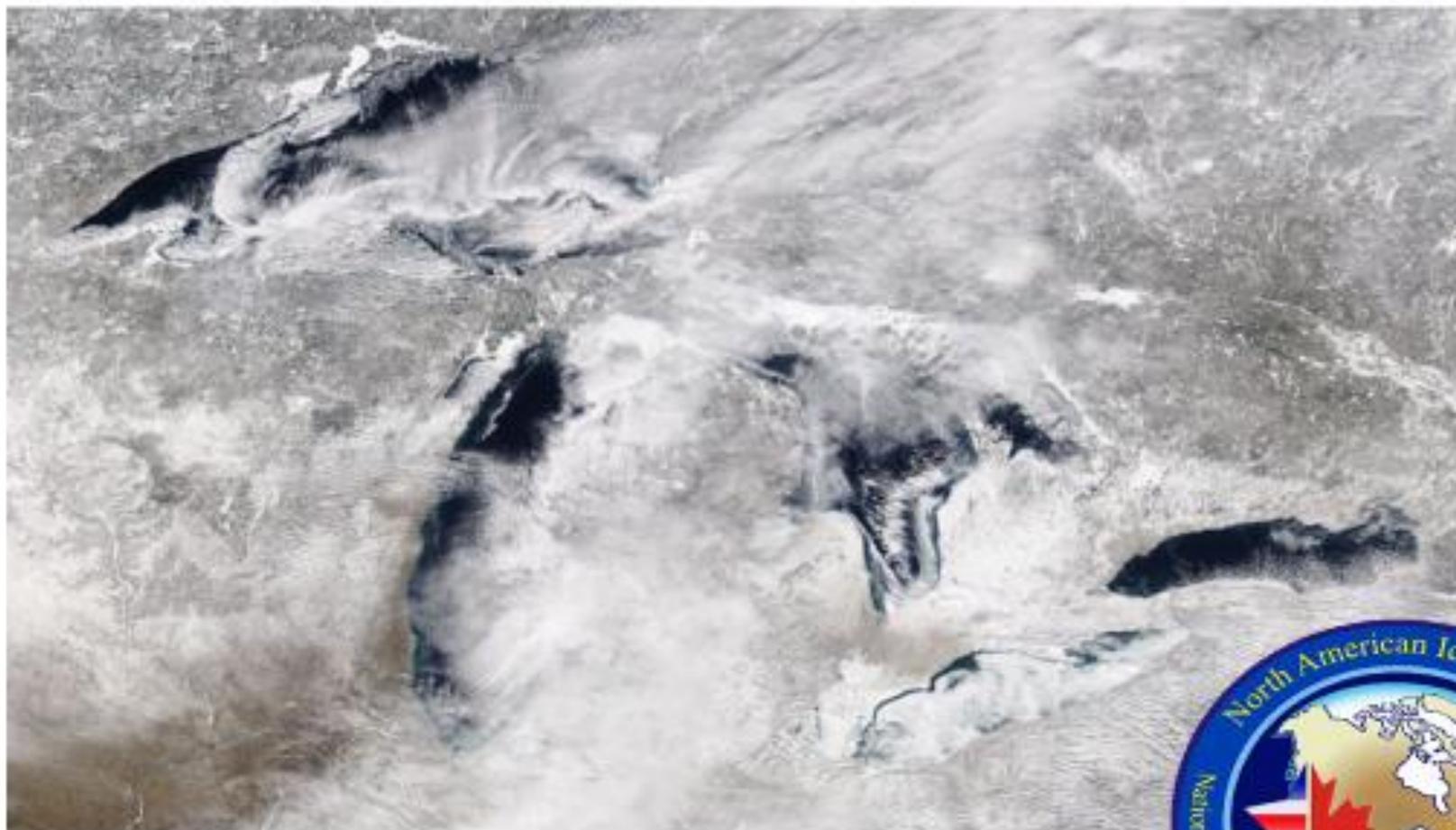
**Scope:** Construction of a replacement lock (1200 ft x 110 ft) in footprint of the existing Sabin Lock chamber, along with additional features required to operate the new lock as well as the existing locks.

**Project Status:**

- \$1.068B base contract awarded to Kokosing Alberici Traylor, LLC (KAT) on 1 July 2022
- Remaining options valued at additional \$803.95M
- Contractor working pre-construction requirements

**Estimated Contract Completion:** Summer 2030

# Pre-Season Outlook Great Lakes Winter 2022-2023



**MODIS visual acquired on February 19<sup>th</sup> 2022 for the Great Lakes acquired near the lake ice maximum.**



# Historical total accumulated ice cover, 1973-2022

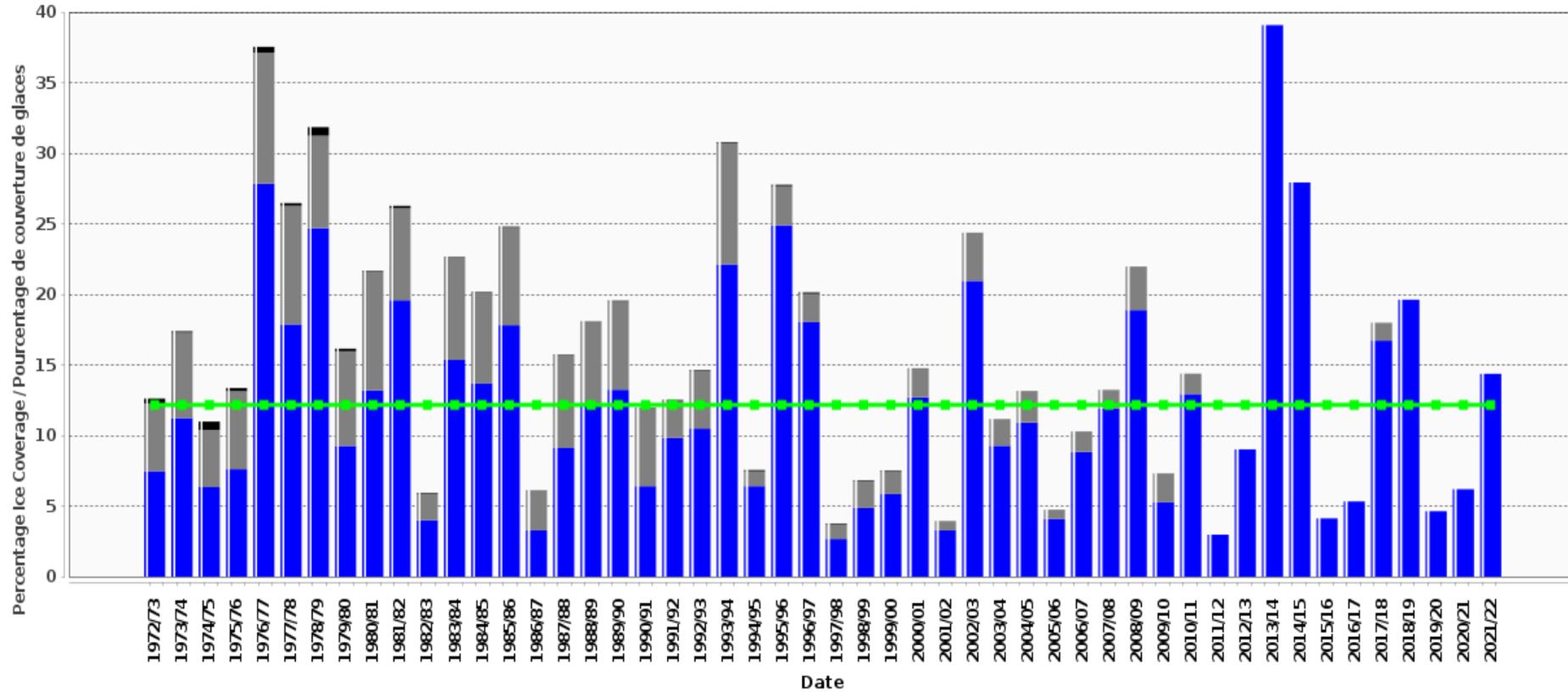


**Historical Total Accumulated Ice Coverage (TAC) for the weeks 1105-0514, seasons:1972/73-2021/22**

**Total accumulé de la couverture des glaces historique (TAC) pour les semaines 1105-0514, saisons:1972/73-2021/22**

Regional Great Lakes /  
Régionale Grands Lacs

Area / Aire : 251,113 km<sup>2</sup>



20.86 % of data is interpolated / 20.86 % des données sont interpolées

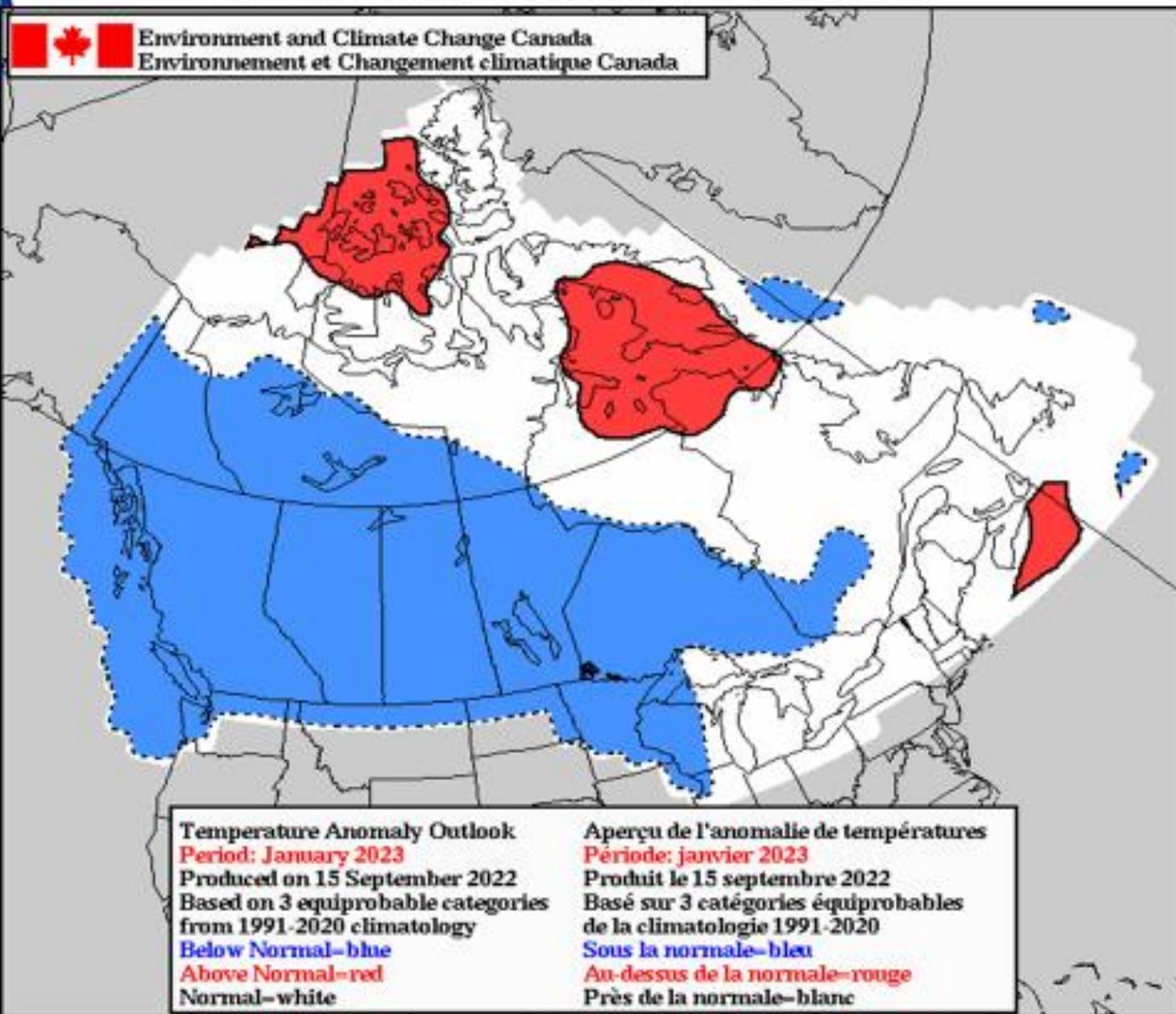
Canadian Ice Service - Environment Canada / Service canadien des glaces - Environnement Canada

(2022-09-19 09:55 IceGraph - Canadian Ice Service/Grappe des glaces - Service canadien des glaces 2.0.7 2014/01/21 )

■ Ice Coverage / couverture des glaces ■ Interpolated Data / Interpolée ■ No Data / Aucune donnée ■ Median / médiane 1990/91-2019/20



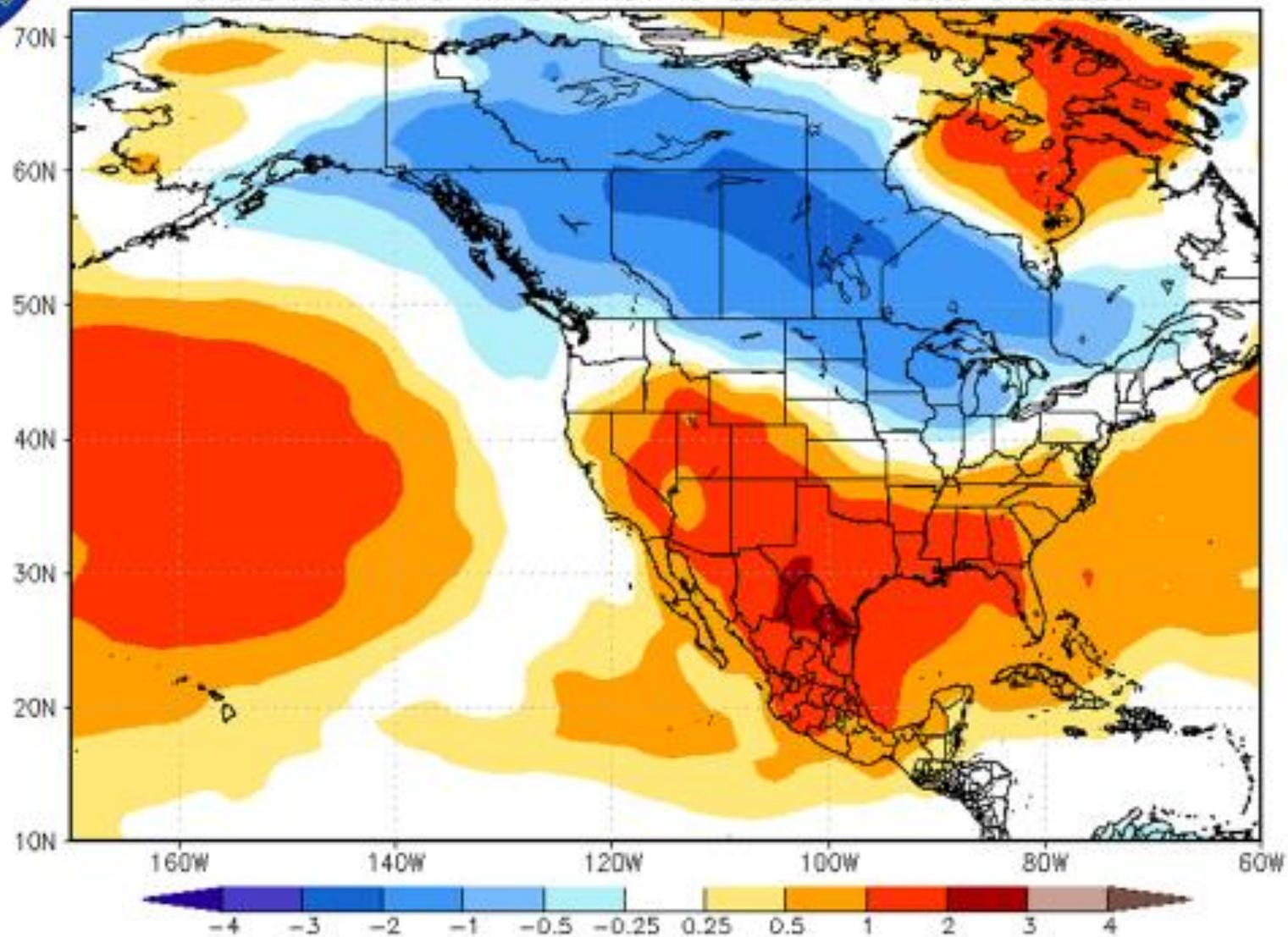
# EC January Anomaly Forecast





# CFS forecast Dec-Jan-Feb

CFSv2 Forecast of TMP2m Anom IC=202209 for Lead 3 2022DJF





## 2022-23 Great Lakes Outlook

- La Niña is present.
- Equatorial sea surface temperatures (SSTs) are below average across most of the Pacific Ocean.
- The tropical Pacific atmosphere is consistent with La Niña
- La Niña to continue this winter with over 90% chance from September-November, decreasing to a 50% chance from mid January-March.



# 2022-23 Great Lakes Outlook

- Warm temperatures over the Great Lakes in October and November will cool to normal by December then drop to slightly below normal near the new year.
- Cold air to the west of Superior will allow for cold air outbreaks to predominantly effect the western lakes.
- All lakes have near to slightly above normal surface water temperatures while Superior has near to below normal surface water temperatures.



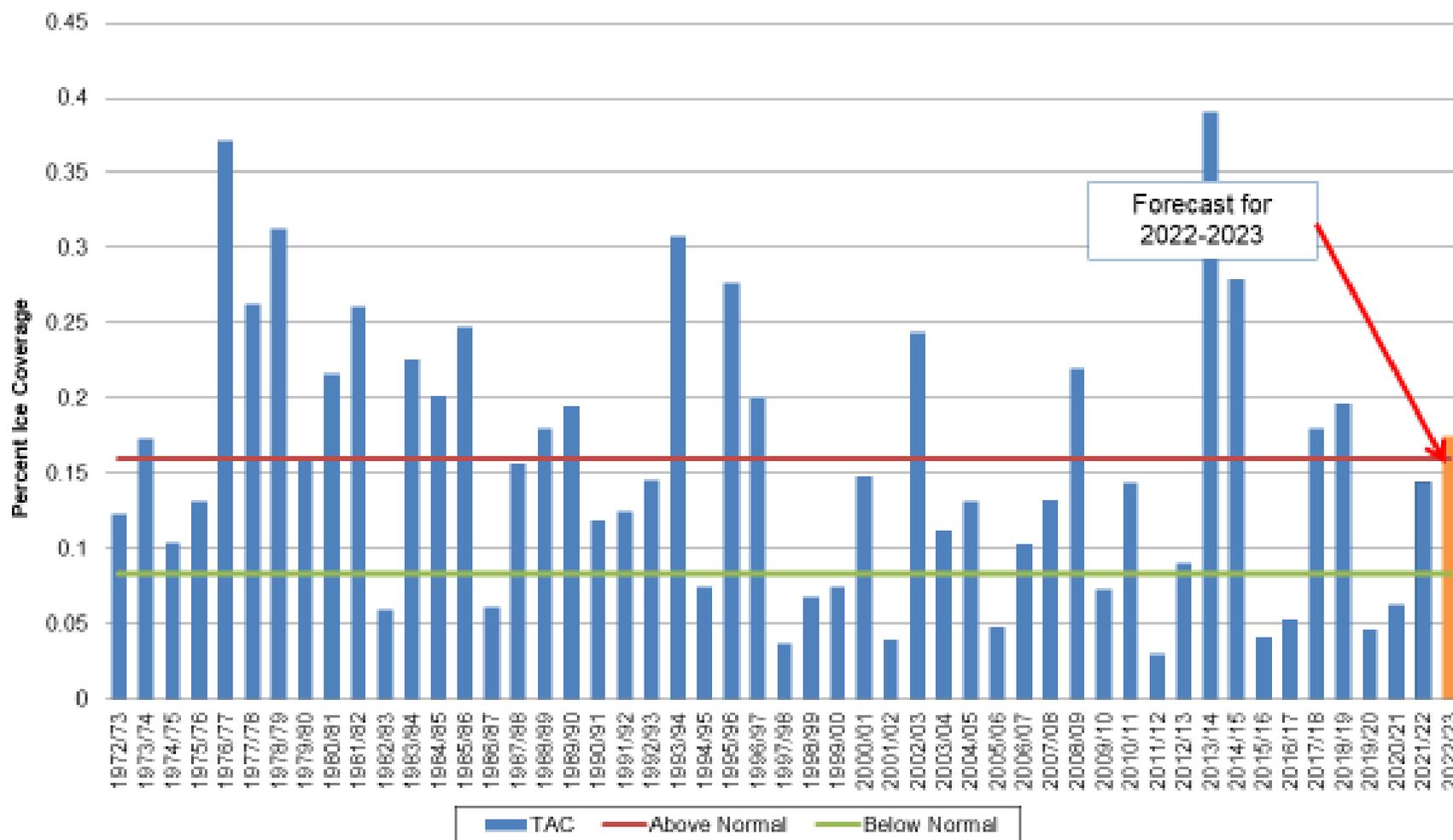
## 2022-23 Great Lakes Outlook

- Guidance is leaning towards slightly below normal air temperatures over the Great Lakes this winter, especially for the western lakes. Even colder air exists to the west of the Great Lakes.
- **Forecast: Above normal ice conditions**



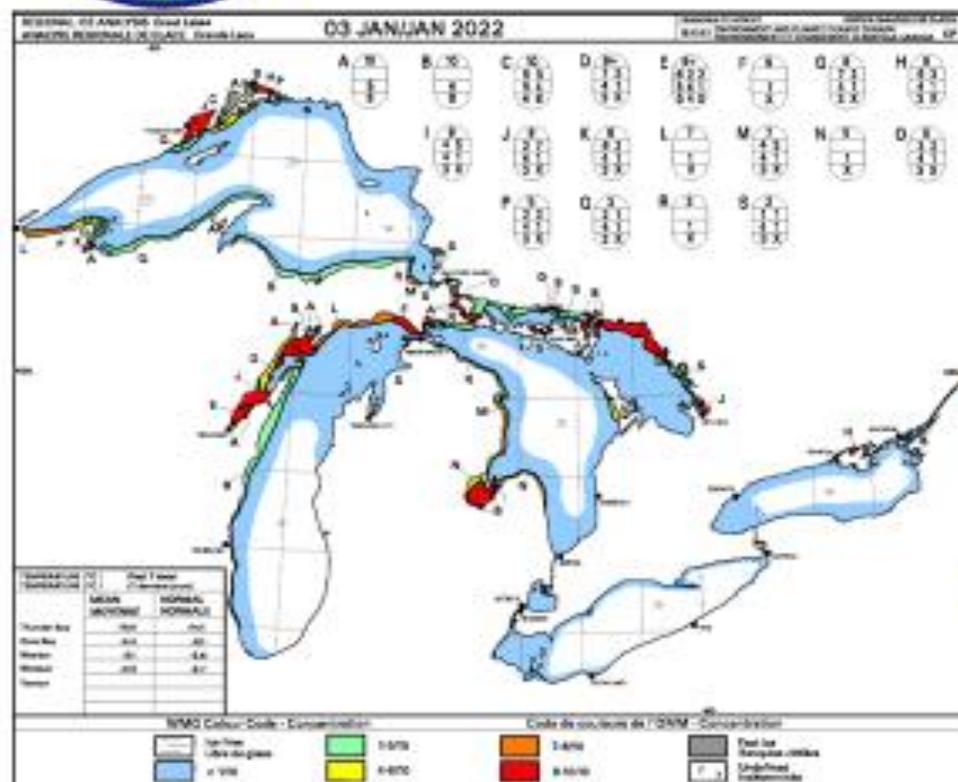
# Forecast TAC for 2020-2021

Great Lakes TAC for 1972-73 to 2019-20





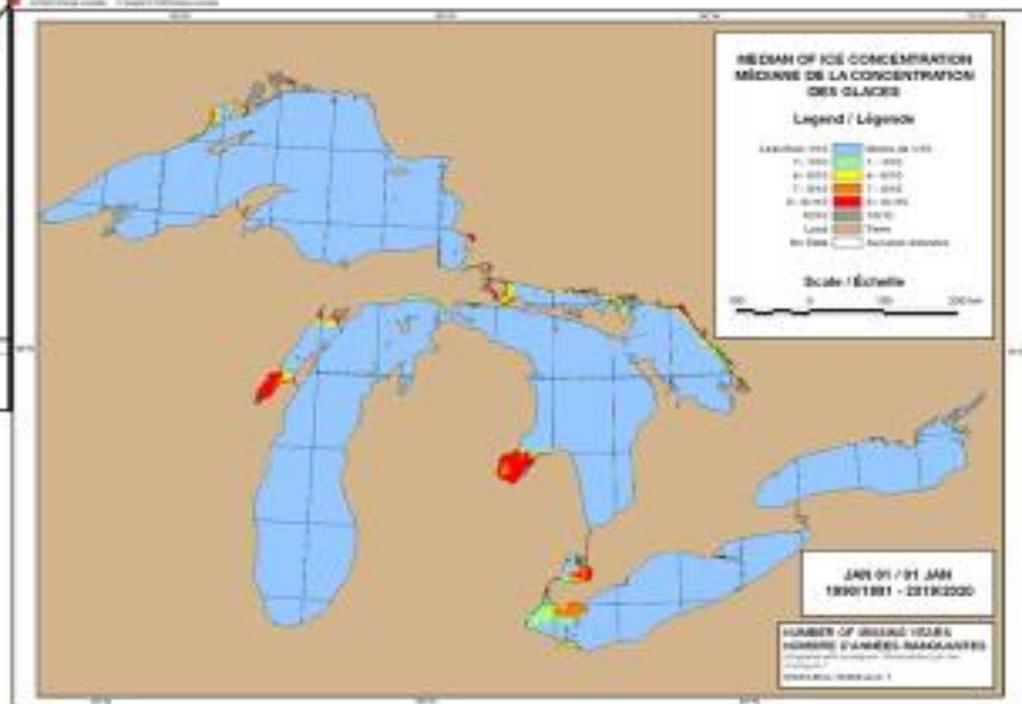
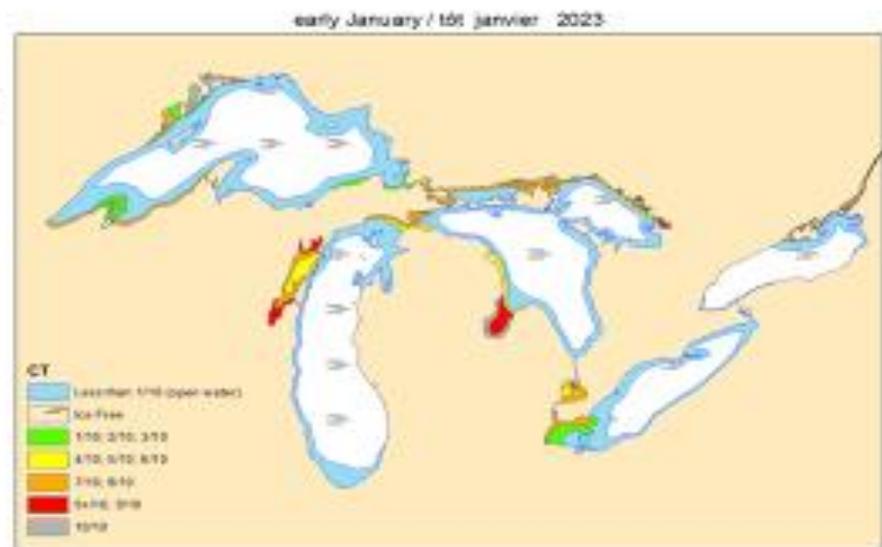
# Early January



Above: 4 January 2021 conditions

Top Right: early January 2022 Forecast

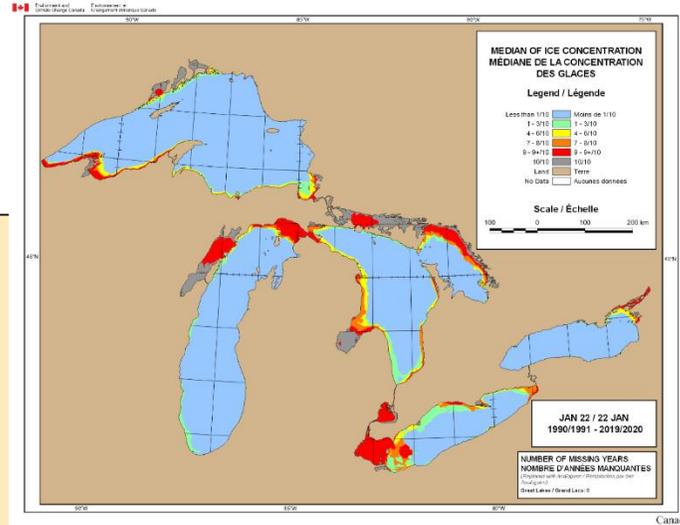
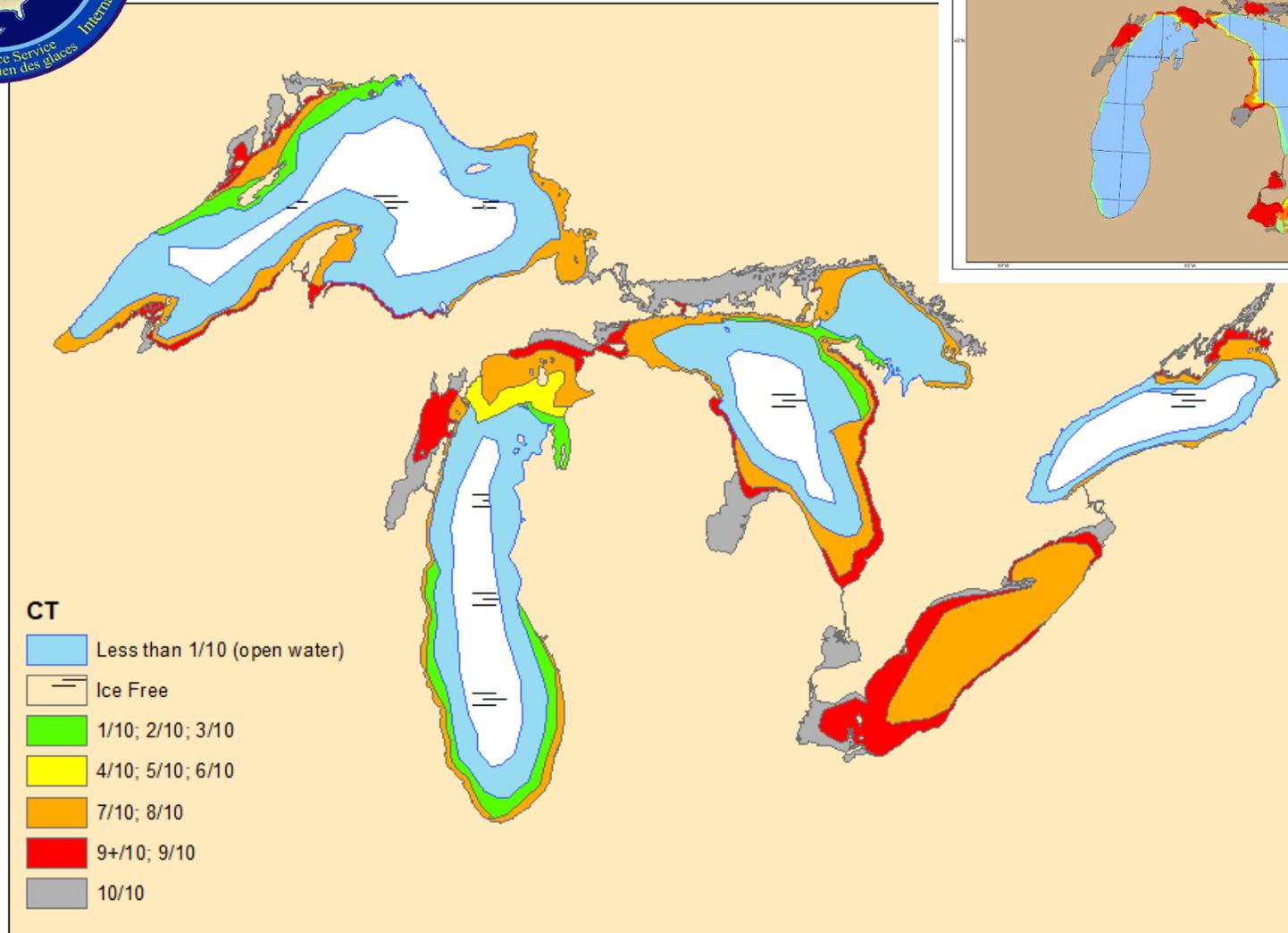
Bottom Right: Median ice concentration for 1 January 1990-2020





# Late January

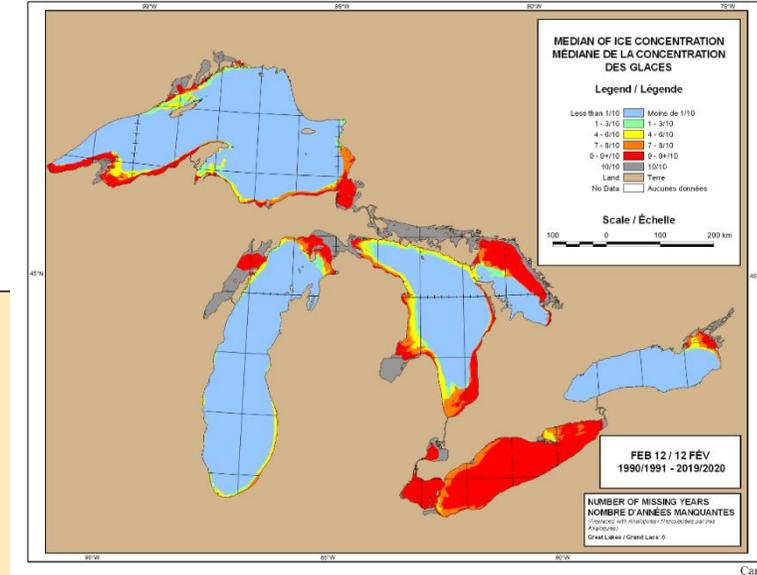
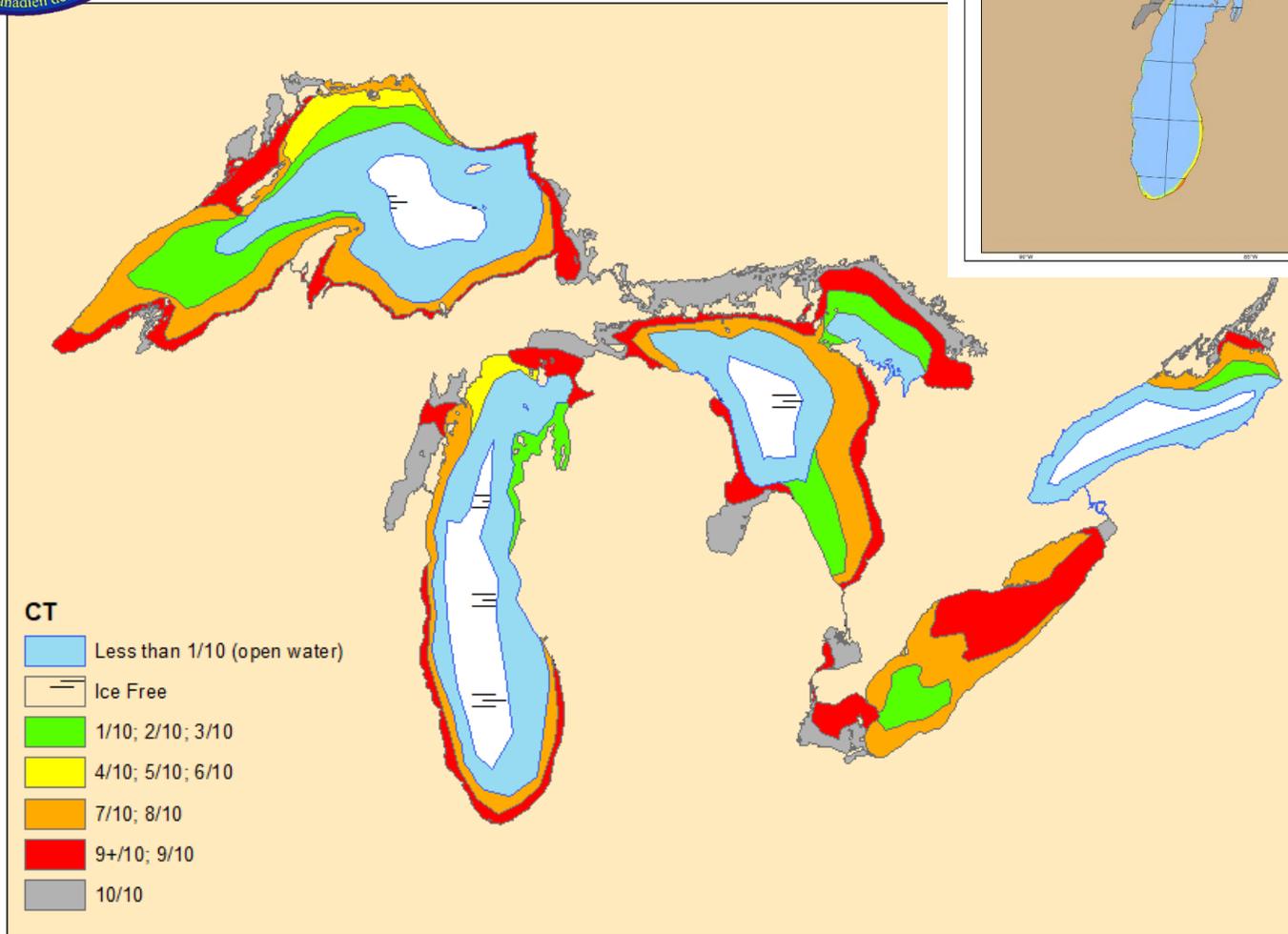
Late January /fin janvier 2023





# Mid-February

Mid February / mi fevrier 2023

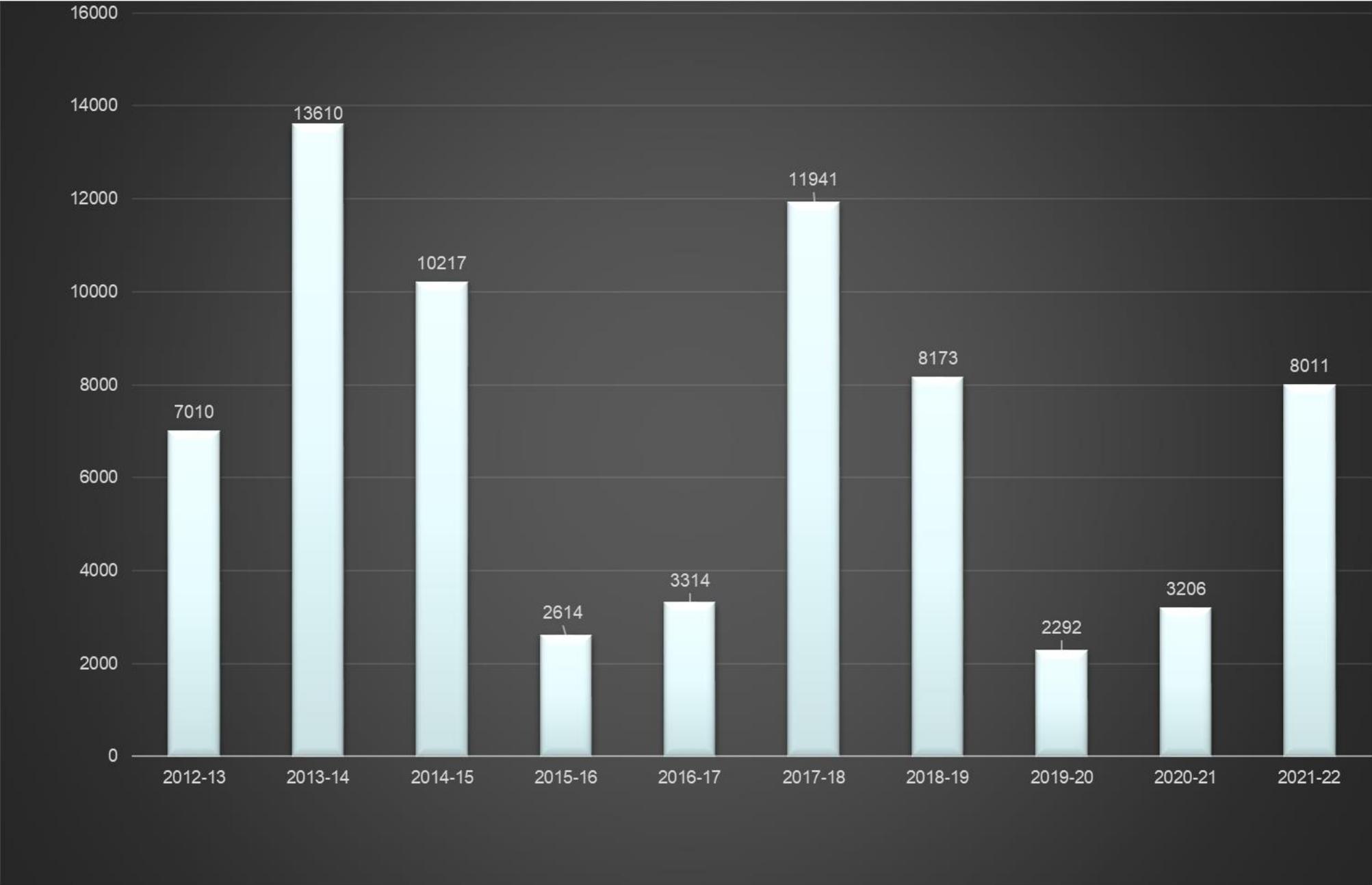




- **Operations began on December 25, 2021 (Assets available since Dec 21)**
  - 123 days of icebreaking services / Ice Office open 137 days
  - 2053 hours of which 861.5 hours were for direct assistance (DA)
  - 139 DA provided (86 Can / 28 US/ 25 Others)
  - Operations ended on April 22, 2022 in Thunder Bay (season was extended by a week – end of Icebreaking levels of service Apr. 15)

	 EY	 FON
<b>Commissioned</b>	1984	1970
<b>Length</b>	69.7 m (229 ft)	71.3 m (234 ft)
<b>Beam</b>	13.7 m (45 ft)	14.9 m (49 ft)
<b>Horsepower</b>	6562 kW (8800 hp)	3984 kW (5342 hp)
<b>Ice Breaking Capability</b>	3 kts through uniform first year ice 900 mm (3.0 ft)	3 kts through uniform first year ice 600 mm (2.0 ft)

# Combined Icebreaking Hours





**CCGS *Samuel Risley***

*From Dec. 21 to Apr. 15*

Depending on ice conditions; will be assigned to Thunder Bay in Dec. until the closing of the Locks / end of requirement.



**CCGS *Griffon***

*From Dec. 21 to Apr. 15*

Could assist with the closing of the Seaway if needed.

# Light Icebreaker

**ICEBREAKING OFFSHORE STANDBY  
VESSEL  
CCGS JUDY LAMARSH**

- LOA 66.4m
- Draft 3m
- Beam 16.4 Moulded
- Propulsion Power
  - 3x 1600Kw = 4800Kw/6434Hp
  - 2 x 550Kw = 1100Kw/1474Hp (Azimuthing Bow Thrusters)
- GRT/NRT – 1828Mt/548 Mt
- Achieved 1m Ice Continuous at 2.5 knots on Caspian Sea

- Vessel to be tasked for familiarization and capabilities confirmation
- This will allow CCG to establish vessels operational capabilities in Great Lakes Ice Conditions and identify any potential shortcomings prior to her conversion work
- This vessel is the first of its type in the Canadian Coast Guard, and new best practices need to be developed before it can be delivering program



# USCG Deployment



## **USCGC MACKINAW, HOLLYHOCK, SPAR, BISCAYNE BAY, BRISTOL BAY, KATMAI BAY, MOBILE BAY, MORRO BAY, NEAH BAY**

- From Dec. 21 to Apr. 15
- USCG cutters scheduled to be available to conduct DOMICE in Lakes Superior, Michigan, Huron, and Erie
- Maximize availability during the extended navigation and spring breakout periods



**Chi-Cheemaun's Homecoming 2022 in Owen Sound marks the end of her sailing season.**

*David Strutt image, October 17*