

FECN19 CWIS 151800

THIRTY-DAY ICE OUTLOOK FOR THE GREAT LAKES ISSUED BY ENVIRONMENT  
CANADA ON 15 DECEMBER 2023 FOR MID-DECEMBER TO MID-JANUARY.  
THE NEXT SCHEDULED BULLETIN WILL BE ISSUED ON 29 DECEMBER 2023.

### **Lake Superior**

Above average air temperatures were experienced from mid-November to mid-December over Lake Superior. Temperatures are forecast to be above normal from mid-December to mid-January.

#### **Thunder Bay.**

December 15-24:

- Open water.

December 25-31:

- Open water except 4-6 tenths new lake ice along the northern shore.

January 1-6:

- Open water except 4-6 tenths new and thin lake ice along the shores.

January 7-12:

- 7-8 tenths new and thin lake ice.

January 13-15:

- 9-9+ tenths thin lake ice.

#### **Nipigon and Black Bays.**

December 15-22:

- 7-8 tenths new and thin lake ice except 9-9+ tenths thin lake ice in eastern Black Bay.

December 23-31:

- 9 tenths new and thin lake ice except 9-9+ tenths thin lake ice in Black Bay.  
Consolidated thin lake ice in northern Black Bay.

January 1-8:

- 9+ tenths thin lake ice except consolidated thin lake ice in northern and eastern Black Bay.

January 9-15:

- 9+ tenths thin lake ice except consolidated medium lake ice in northeastern Black Bay and in western Nipigon Bay.

#### **From Grand Marais Minnesota to the entrance to Nipigon Bay.**

December 15-31:

- Open water.

January 1-9:

- Open water except 1-3 tenths new and thin lake ice near Black Bay.

January 10-15:

- 4-6 tenths new lake ice except 7-8 tenths new and thin lake ice along the shore from Thunder Bay to Black Bay.

**From Grand Marais to Duluth.**

December 15-31:

- Open water

January 1-9:

- Open water except 1-3 tenths new lake ice near Duluth.

January 10-15:

- Open water except 7-8 tenths new and thin lake ice near Duluth.

**Southern Lake Superior west of Keweenaw Peninsula.**

December 15-20:

- Open water except 4-6 tenths new lake ice along part of the shores in Chequamegon Bay.

December 21-26:

- Open water except 9-9+ tenths new lake ice along the shores in Chequamegon Bay.

December 27-31:

- Open water except 9-9+ tenths new lake ice in Chequamegon Bay.

January 1-7:

- 1-3 tenths new ice except 9-9+ tenths new and thin lake ice in Chequamegon Bay.

January 8-15:

- 7-8 tenths new and thin lake ice along the shore except 9+ thin lake ice in Chequamegon Bay.

**Southern Lake Superior east of the Keweenaw Peninsula.**

December 15-22:

- Open water.

December 23-31:

- Open water except 1-3 tenths new lake ice in a few sheltered bays.

January 1-15:

- Open water except 1-3 tenths new lake ice along parts of the shore. 7-8 tenths thin lake ice in sheltered bays.

**Whitefish Bay.**

December 15-24:

- Open water.

December 25-31:

- Open water except 7-8 tenths new ice along parts of the shore.

January 1-15:

- Open water except 4-6 tenths new and thin lake ice along the shore. 9-9+ tenths thin lake ice along parts of the shore.

**From Whitefish Bay northwards to Michipicoten Bay.**

December 15-January 15:

- Open water.

**From Michipicoten Bay to the entrance to Nipigon Bay.**

December 15-31:

- Open water.

January 1-15:

- Open water except 1-3 tenths new lake ice along the shore.

### **Elsewhere in Lake Superior.**

December 15-31:

- Ice free.

January 1-15:

- Ice free to open water.

## **Lake Michigan**

Above average air temperatures were experienced from mid-November to mid-December over Lake Michigan. Temperatures are forecast to be above normal from mid-December to mid-January.

### **Green Bay.**

December 15-20:

- Open water except 1-3 tenths new lake ice in the Bays de Noc.

December 21-31:

- Open water except 1-3 tenths new lake ice near Green Bay and 4-6 tenths new lake ice in the Bays de Noc.

January 1-7:

- Open water except 7-8 tenths new and thin lake ice in the southern section and in Bays de Noc.

January 8-15:

- 1-3 tenths new lake ice except 7-8 tenths new and thin lake ice in the southern section and in Bays de Noc. Consolidated thin lake ice in the northern section of Bays de Noc.

### **Northeastern Lake Michigan.**

December 15-31:

- Open water.

January 1-9:

- Open water except 1-3 tenths new lake ice along parts of the northern shore and near the Straits of Mackinac.

January 10-15:

- Open water except 7-8 tenths new and thin lake ice along the northern shore and near the Straits of Mackinac.

### **Elsewhere in Lake Michigan.**

December 15-January 9:

- Ice free except open water along parts of the shore.

January 10-15:

- Open water except 4-6 tenths new lake ice along parts of the southern and western shores.

## **Lake Huron and Georgian Bay**

Near average air temperatures were experienced from mid-November to mid-December over Lake Huron and Georgian Bay. Air temperatures are forecast to be above normal for mid-December to mid-January.

### **North Channel.**

December 15-20:

- Open water except 1-3 tenths new lake ice in sheltered bays.

December 21-31:

- Open water except 4-6 tenths new lake ice along parts of the shore.

January 1-9:

- Open water except 7-8 tenths new and thin lake ice along parts of the shore.

January 10-15:

- 4-6 tenths new lake ice except 9-9+ tenths thin lake ice along the shore.  
Consolidated thin lake ice in sheltered bays.

### **St Mary's River.**

December 15-24:

- Open water except 4-6 tenths new lake ice in sheltered bays.

December 25-31:

- 7-8 tenths new and thin lake ice except 9+ tenths thin lake ice along parts of the shore.

January 1-12:

- 9-9+ tenths thin lake ice except consolidated thin lake ice in sheltered bays.

January 13-15:

- Consolidated thin and medium lake ice.

### **South of Manitoulin Island westward to north-western Lake Huron.**

December 15-January 15:

- Open water.

### **North-western Lake Huron near the Straits of Mackinac.**

December 15-31:

- Open water.

January 1-8:

- Open water except 4-6 tenths new and thin lake ice along the northern shores.

January 9-15:

- Open water except 7-8 tenths new and thin lake ice along the northern shores and 1-3 tenths new lake ice along the southern shores.

### **From north-western Lake Huron to Saginaw Bay.**

December 15-31:

- Open water.

January 1-10:

- Open water except patches of 1-3 tenths new and thin lake ice along the shore south of Alpena.

January 11-15:

- 1-3 tenths new lake ice along the shore except 7-8 tenths thin lake ice along the shore south of Alpena.

**Saginaw Bay.**

December 15-19:

- Open water except 1-3 tenths new lake ice along parts of the southern shore.

December 20-31:

- Open water except 4-6 tenths new lake ice in along the shore in the southern section.

January 1-10:

- 7-8 tenths new lake ice except 9-9+ tenths thin lake ice along parts of the shore.

January 11-15:

- 9-9+ tenths thin lake ice except consolidated thin lake ice along parts of the shore.

**The southern and eastern shore of Lake Huron.**

December 15-31:

- Open water.

January 1-7:

- Open water except occasional patches of 1-3 tenths new and thin lake ice along the eastern shore.

January 8-15:

- Open water except 4-6 tenths new in lake ice along parts of the eastern shore. 7-8 tenths thin lake ice along the Bruce Peninsula.

**Georgian Bay.**

December 15-25:

- Open water.

December 26-31:

- Open water except 4-6 tenths new lake ice along parts of the shore.

January 1-8:

- Open water except 7-8 tenths new and thin lake ice along parts of the northeastern shore.

January 9-15:

- Open water except 9-9+ tenths thin lake ice along the northeastern shore. Consolidated thin lake ice in sheltered bays.

**Elsewhere in Lake Huron.**

December 15-31:

- Ice free.

January 1-15:

- Open water to ice free.

**Lake Erie and Lake St. Clair**

Near average air temperatures were experienced from mid-November to mid-December over Lake Erie and Lake St. Clair. Air temperatures are forecast to be above normal for mid-December to mid-January.

**Lake St Clair and the Western Basin.**

December 15-24:

- Ice free except open water along the shore and in Lake St. Clair.

December 25-31:

- Open water except 4-6 tenths new lake ice along parts of the shore in eastern Lake St. Clair.

January 1-10:

- Open water except 4-6 tenths new lake ice along parts of the shore. 7-8 tenths new lake ice in eastern Lake St. Clair.

January 11-15:

- Open water except 7-8 tenths new and thin lake ice along parts of the shore. 9-9+ tenths thin lake ice in eastern and southern Lake St. Clair.

**The rest of Lake Erie.**

December 15-31:

- Ice free except open water along the shore.

January 1-11:

- Open water except 7-8 tenths new lake along the eastern shore of Long Point and in Sandusky Bay.

January 12-15:

- Open water except 9-9+ tenths new lake ice along the eastern shore of Long Point. Consolidated thin lake ice in Sandusky Bay.

**Lake Ontario**

Near average air temperatures were experienced from mid-November to mid-December over Lake Ontario. Air temperatures are forecast to be above normal for mid-December to mid-January.

**Northeastern Lake Ontario.**

December 15-25:

- Ice free except open water along the shore.

December 26-31:

- Open water except 7-8 tenths new lake ice in sheltered bays.

January 1-10:

- Open water except 7-8 tenths new and thin lake ice in sheltered bays.

January 11-15:

- Open water except 9-9+ thin lake ice in sheltered bays.

**Bay of Quinte.**

December 15-25:

- Open water

December 26-31:

- Open water except 7-8 tenths new lake ice along parts of the shore and in sheltered bays.

January 1-6:

- Open water except 9-9+ tenths new lake ice along the shore.

January 7-15:

- 9-9+ new and thin lake ice.

**St Lawrence River.**

December 15-31:

- Open water except occasional patches of 1-3 tenths new and thin lake ice in isolated bays along shore.

January 1-9:

- 4-6 tenths of new and thin lake ice except 7-8 tenths thin lake ice in isolated bays along the shore.

January 10-15:

- Open water except 9-9+ thin lake ice in sheltered bays

**Elsewhere in Lake Ontario.**

December 15-31:

- Ice free except open water along parts of the shore.

January 1-15:

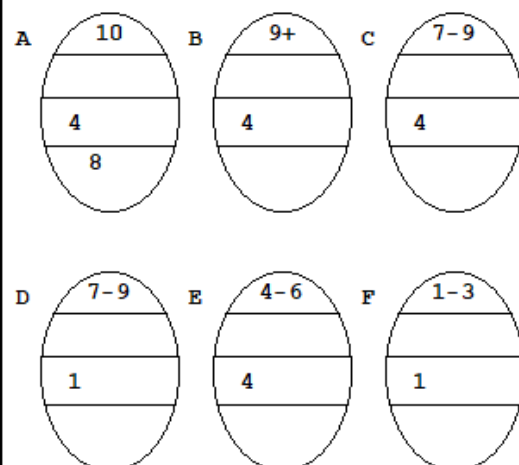
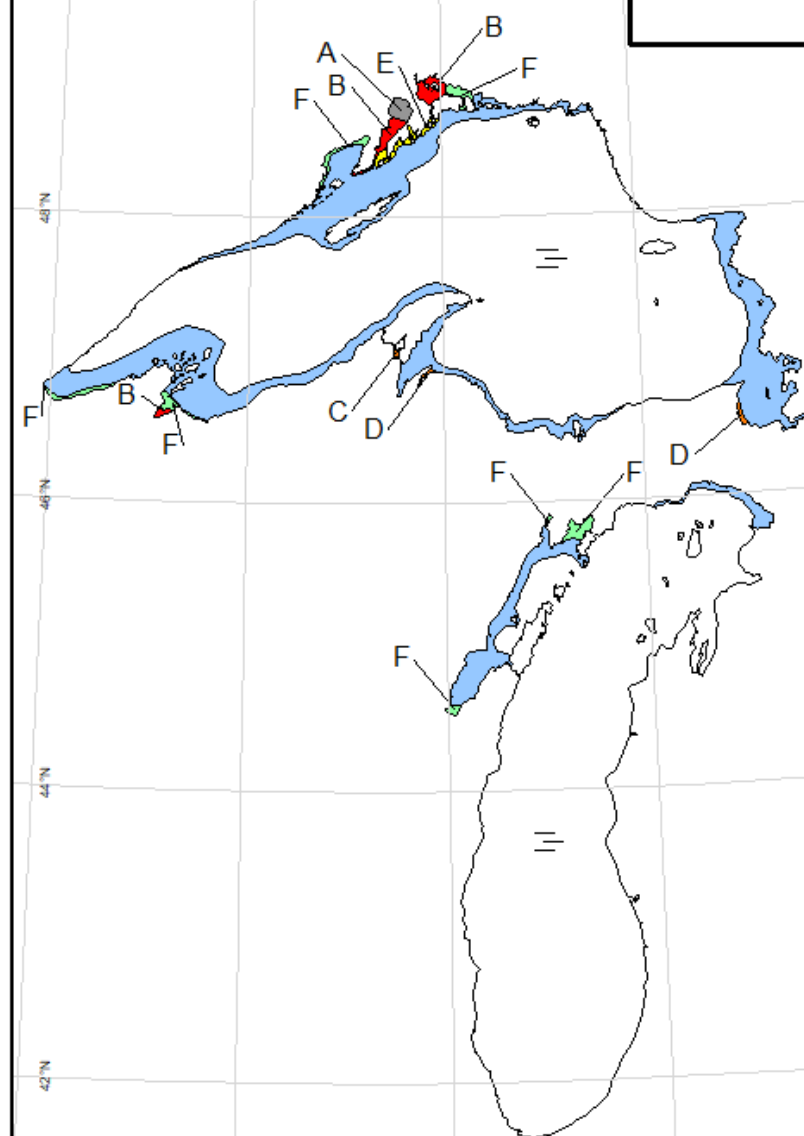
- Open water.










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**ICE FORECAST - 15 DAY  
PREVISIONS DES GLACES - 15 JOURS**

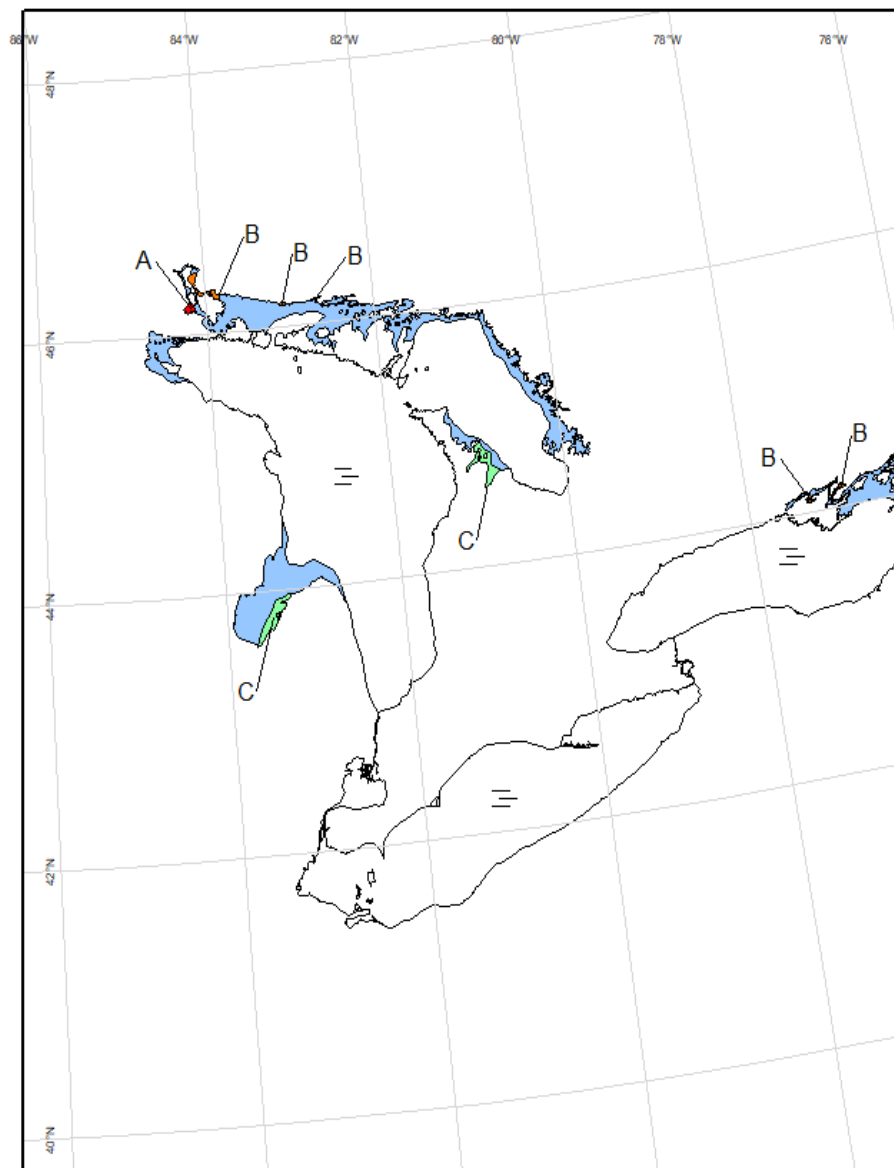
**North American Ice Service /  
Service des glaces de l'Amerique du Nord**

**VALID/VALIDE: 01 JAN/JANV. 2024**



COLOR CODES BASED ON TOTAL CONCENTRATION					
	ICE FREE		4-6 TENTHS		FAST ICE (TEN TENTHS)
	LESS THEN 1 TENTH		7-8 TENTHS		ICE SHELF
	1-3 TENTHS		9-10 TENTHS		UNDEFINED ICE

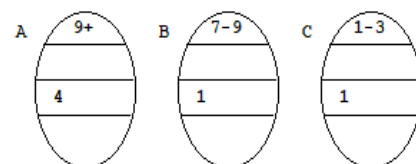




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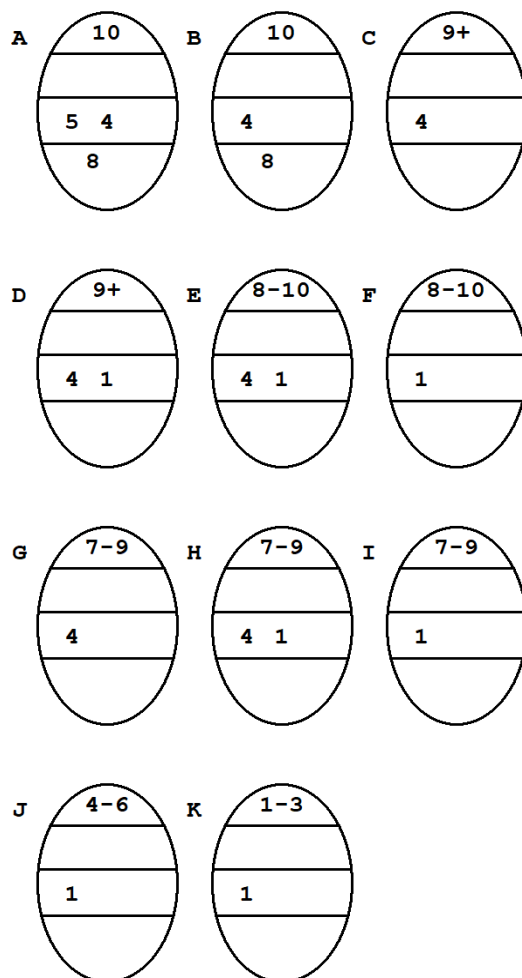
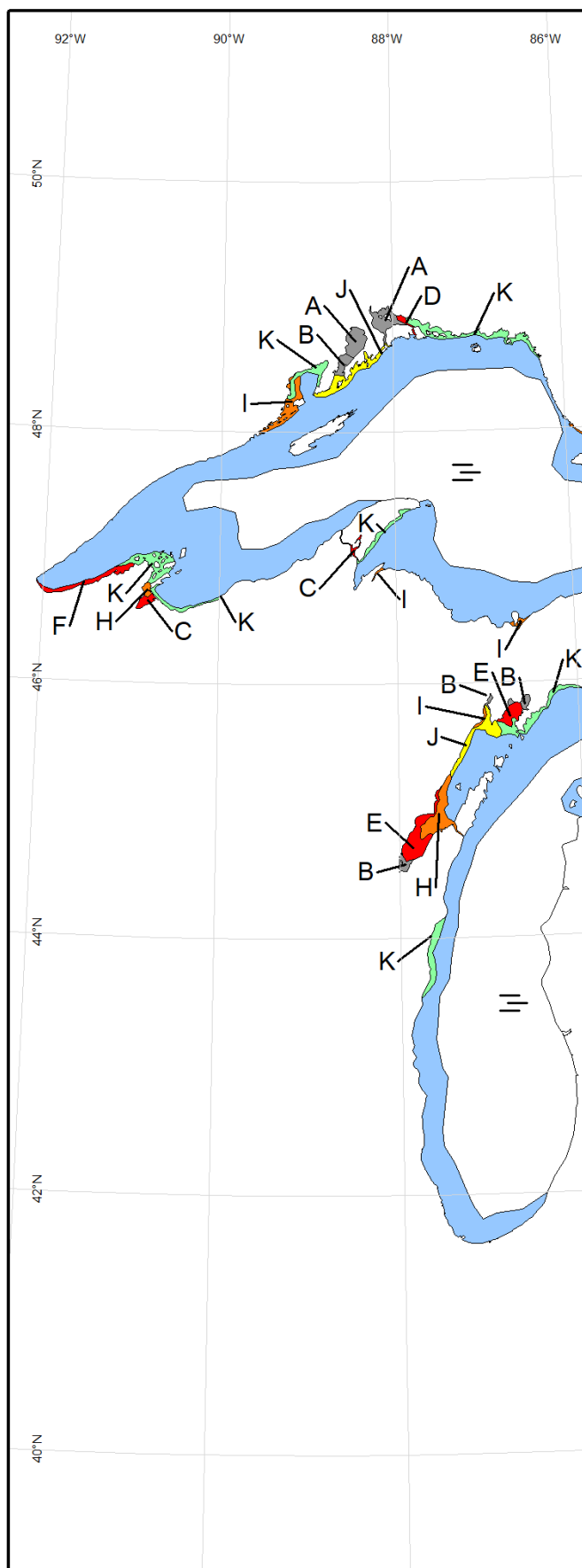
## COLOR CODES BASED ON TOTAL CONCENTRATION

ICE FREE	4-6 TENTHS	FAST ICE (TEN TENTHS)
LESS THEN 1 TENTH	7-8 TENTHS	ICE SHELF
1-3 TENTHS	9-10 TENTHS	UNDEFINED ICE

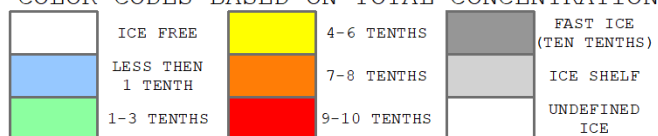
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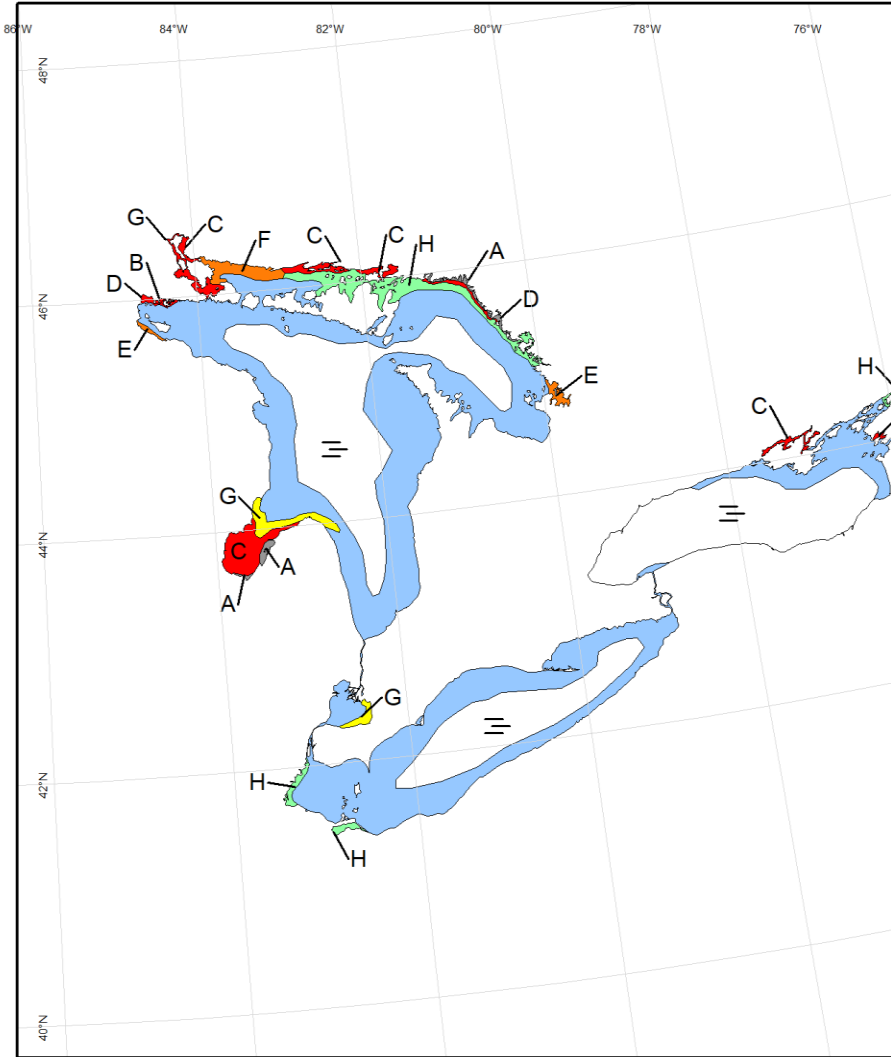
North American Ice Service /  
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VALID/VALIDE: 15 JAN/JANV. 2024



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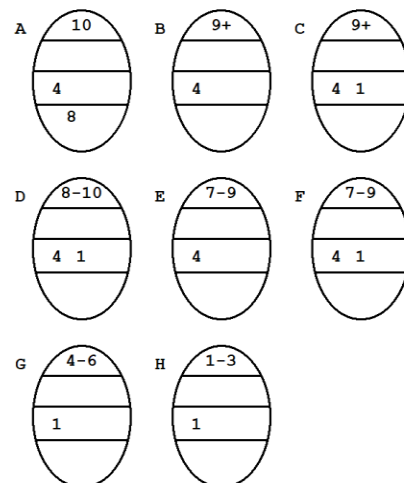




# ICE FORECAST - 30 DAY PREVISIONS DES GLACES - 30 JOURS

North American Ice Service /  
Service des glaces de l'Amerique du Nord

VALID/VALIDE: 15 JAN/JANV. 2024



COLOR CODES BASED ON TOTAL CONCENTRATION					
	ICE FREE		4-6 TENTHS		FAST ICE (TEN TENTHS)
	LESS THEN 1 TENTH		7-8 TENTHS		ICE SHELF
	1-3 TENTHS		9-10 TENTHS		UNDEFINED ICE