



# Dealing With High Water Seminar

Ontario Sailing  
National Yacht Club  
Toronto, Ontario

Saturday, February 15, 2020  
Ron Bianchi  
Meteorologist



## News Release

February 13, 2020

Lake Ontario is again near record highs for this time of year and the risk of high levels this spring remains elevated. While considerable uncertainty in projections for spring still exists, the International Lake Ontario-St. Lawrence River Board is providing advanced notice so communities can begin planning for a foreseeable Lake Ontario peak of 75.5 m (247.7 feet) or higher in 2020. Please work with your local municipal officials to determine best preparedness and response measures.

## News Release

February 07, 2020

Mild temperatures and minimal ice cover in the St. Lawrence River made it possible to release record amounts of water from Lake Ontario during January and continuing into February, but inflows to Lake Ontario also set records last month.

International Lake Ontario-St.  
Lawrence River Board  
<https://ijc.org/en/loslrb>

Canada  
Fisheries and Oceans  
Canada  
Pêches et Océans  
Canada

Canada  
Environment and  
Climate Change Canada  
Environnement et  
Changement climatique Canada

## Water Levels Niveaux d'eau

### Great Lakes and Montreal Harbour

Monthly Bulletin prepared by the  
Canadian Hydrographic Service  
Department of Fisheries and Oceans

### Grands Lacs et port de Montréal

Bulletin mensuel préparé par le  
Service hydrographique du Canada  
Ministère des Pêches et des Océans



### Water Level Advisory

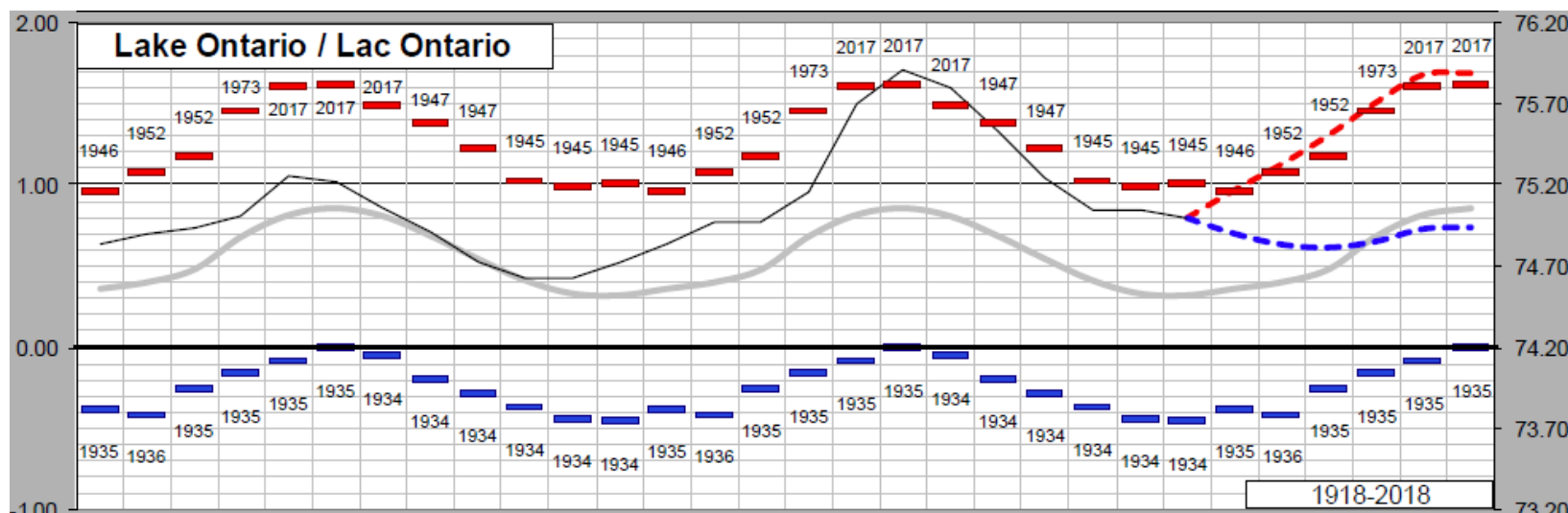
Water levels for Lake Superior, Lake Michigan-Huron, Lake St. Clair, Lake Erie, Lake Ontario, and Montréal Harbour are above their all-time average for this time of year and are above the level of Chart Datum.

Mariners should exercise extreme caution throughout the entire system, especially during periods of strong winds when water levels can rise or fall significantly in a short period of time.

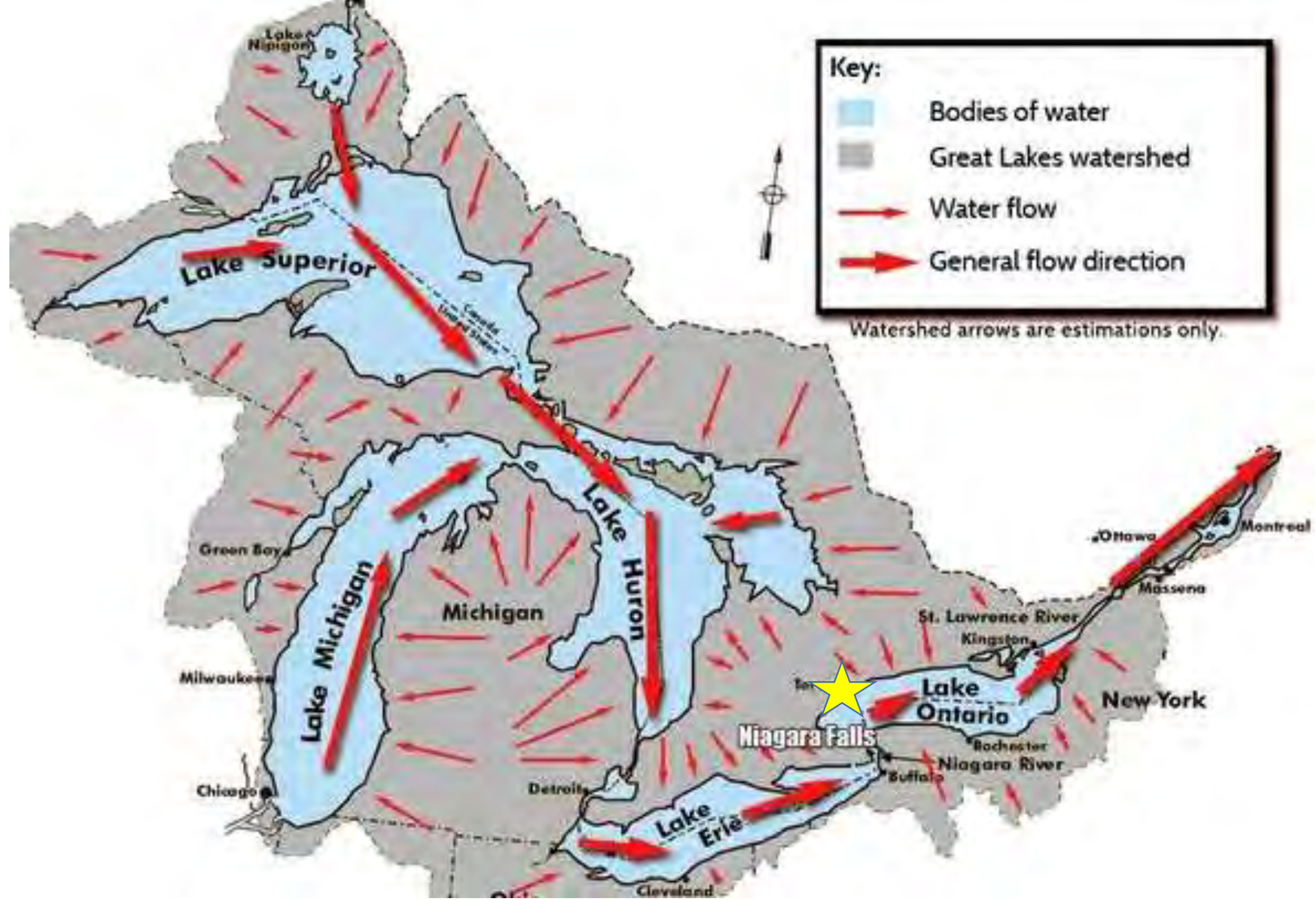
### Avis du Niveau d'Eau

Les niveaux d'eau pour le lac Supérieur, le lac Michigan-Huron, le lac Sainte-Claire, le lac Érié, le lac Ontario et port de Montréal sont tous supérieurs à leur moyenne de tous les temps pour cette période de l'année et sont au-dessus du zéro des cartes.

Les navigateurs devraient faire preuve de beaucoup de prudence à travers tout le bassin hydrographique, tout particulièrement lorsqu'il vente très fort, car dans de telles situations, le niveau de l'eau peut grandement augmenter ou diminuer en très peu de temps.







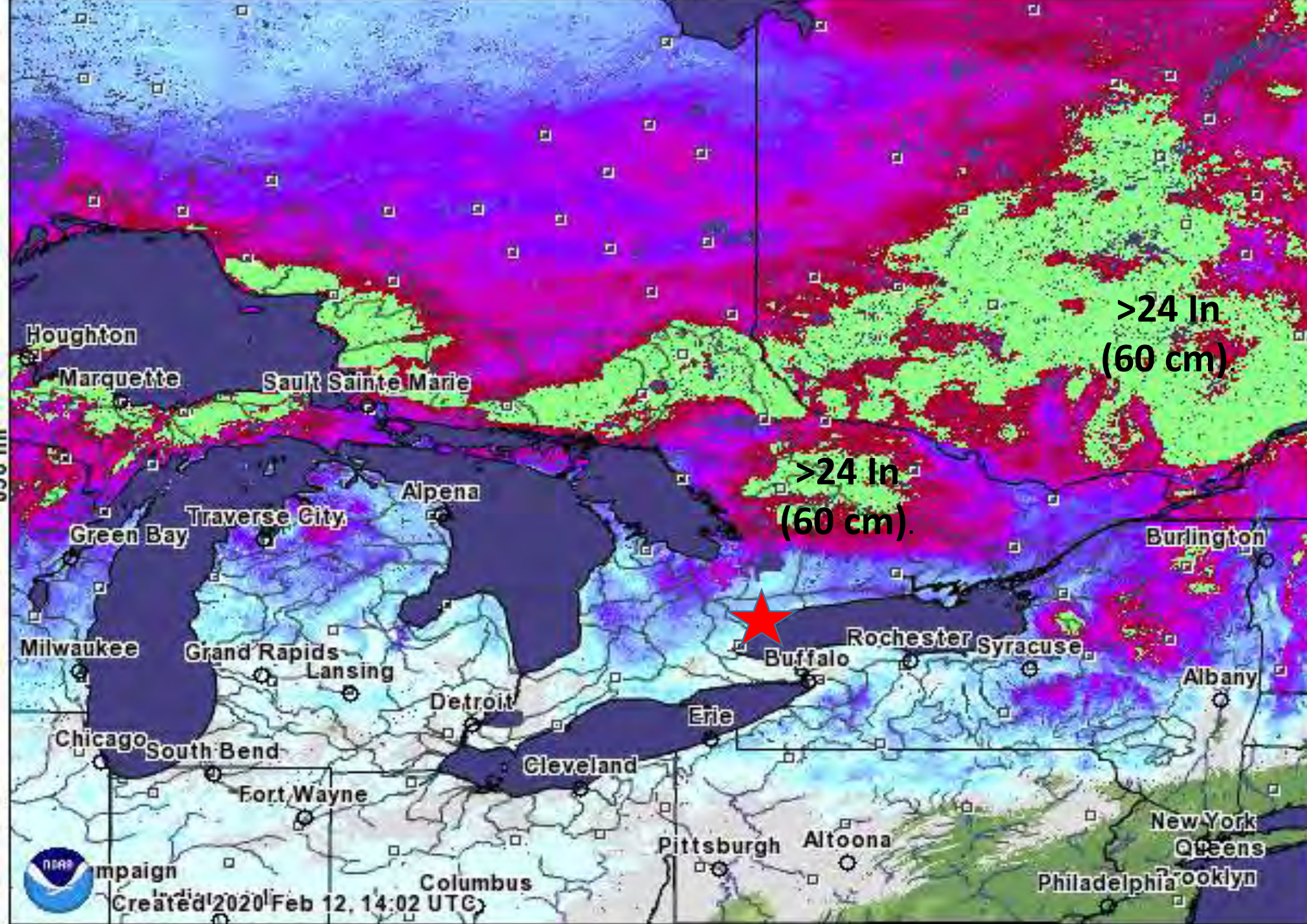




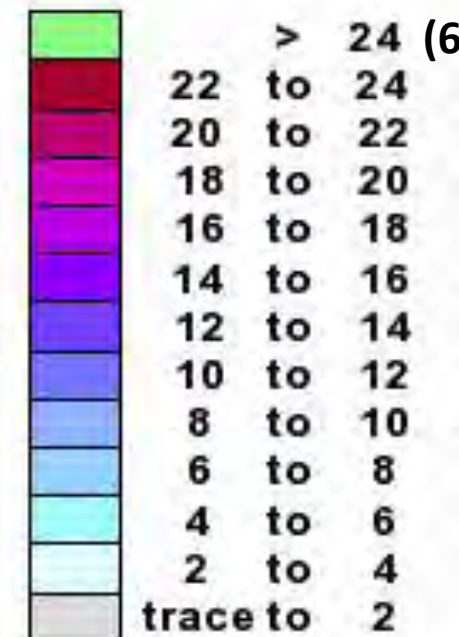






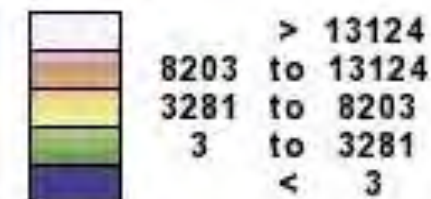


Inches of depth



Not Estimated

Elevation in feet







# National Weather Service National Operational Hydrologic Remote Sensing Center

<https://www.nohrsc.noaa.gov/nsa/>

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## National Snow Analyses

[Snow Reports](#)

[Model Assimilation Schedule](#)

[Snow Survey Schedule](#)

Click On Map for Regional Analyses



### Automated Model Discussion:

February 14, 2020

Area Covered By Snow: 43.2%

Area Covered Last Month: 37.7%

### Snow Depth

Average: 4.9 in

Minimum: 0.0 in

Maximum: 2262.3 in

Std. Dev.: 11.6 in

### Snow Water Equivalent

Average: 1.4 in

Minimum: 0.0 in

Maximum: 1332.0 in

Std. Dev.: 4.0 in

[more...](#)

[Metric Units...](#)

Select Region and Date

National

2020

February

14

-

+

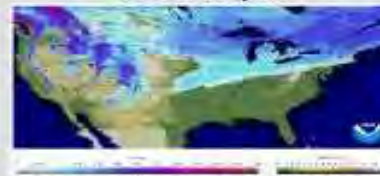
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### Snow Water Equivalent



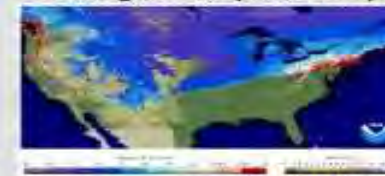
Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)

### Snow Depth



Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)

### Average Snowpack Temp



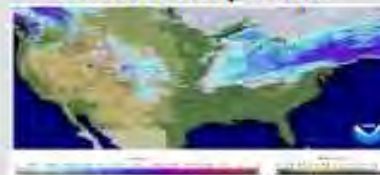
Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)

### SWE Change



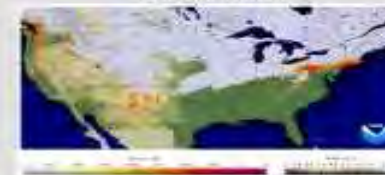
Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)

### Snow Precipitation



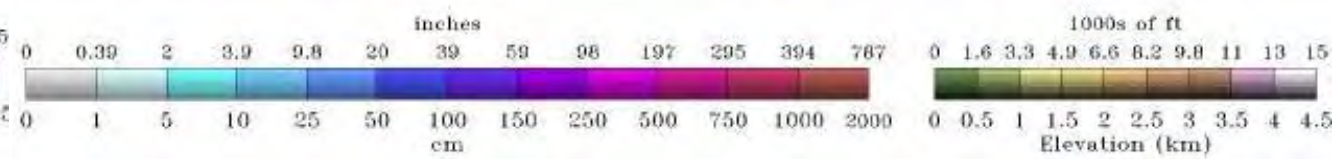
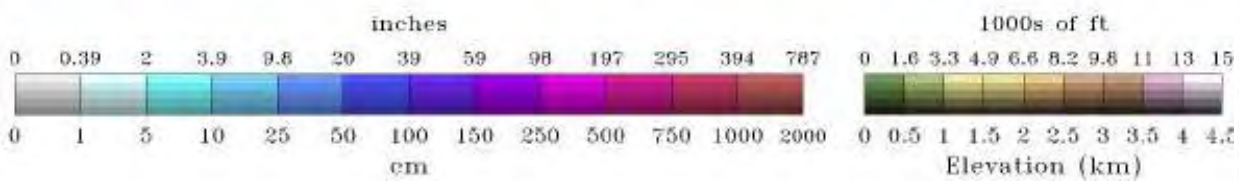
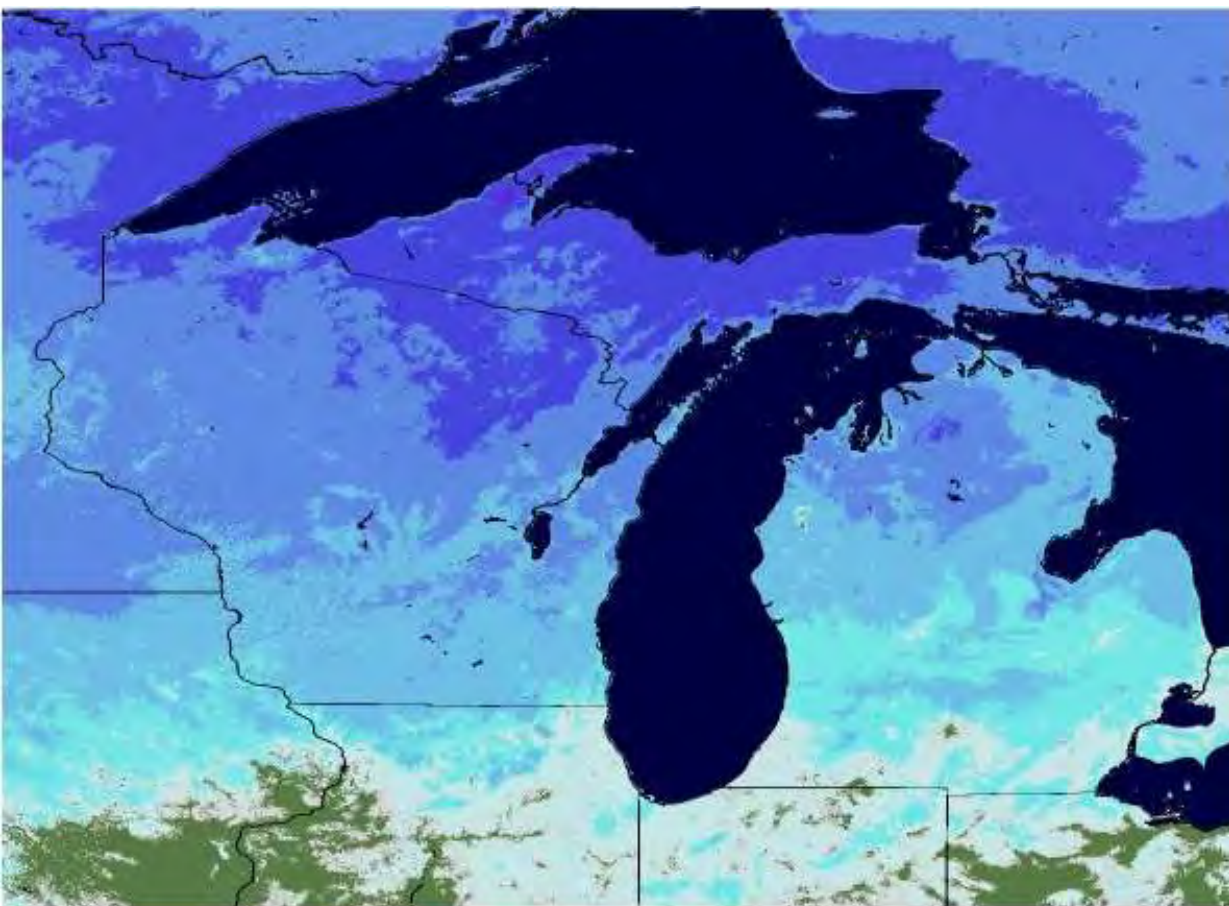
Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)

### Snow Melt



Animate: [Season](#) --- [Two weeks](#) --- [One Day](#)







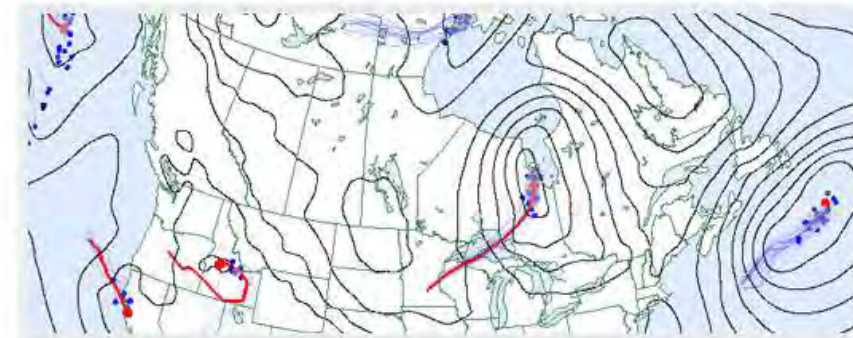


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## Analyses and Modelling

Access modelling and analyses information on seasonal forecasting, snow depth, wave modelling, sea ice cover, stratospheric ozone, upper air analyses, cloud forecasting, aviation conditions, and geospatial services.



### Analyses

- [Surface](#)
- [Regional Deterministic Precipitation Analysis](#)

### Modelling

- [Regional Deterministic Prediction System \(RDPS\)](#)

### Monthly Forecast

- [Temperature Forecasts](#)

[https://weather.gc.ca/mainmenu/modelling\\_menu\\_e.html](https://weather.gc.ca/mainmenu/modelling_menu_e.html)









Watch the  
CoCoRaHS Canada Intro Video



<https://www.cocorahs.org/Canada.aspx>

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What is your landscape's current

**CONDITION?**

Tell us by submitting a "CoCoRaHS Condition Report"

**WET?  
NORMAL?  
DRY?**



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Things to  
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**Rain**

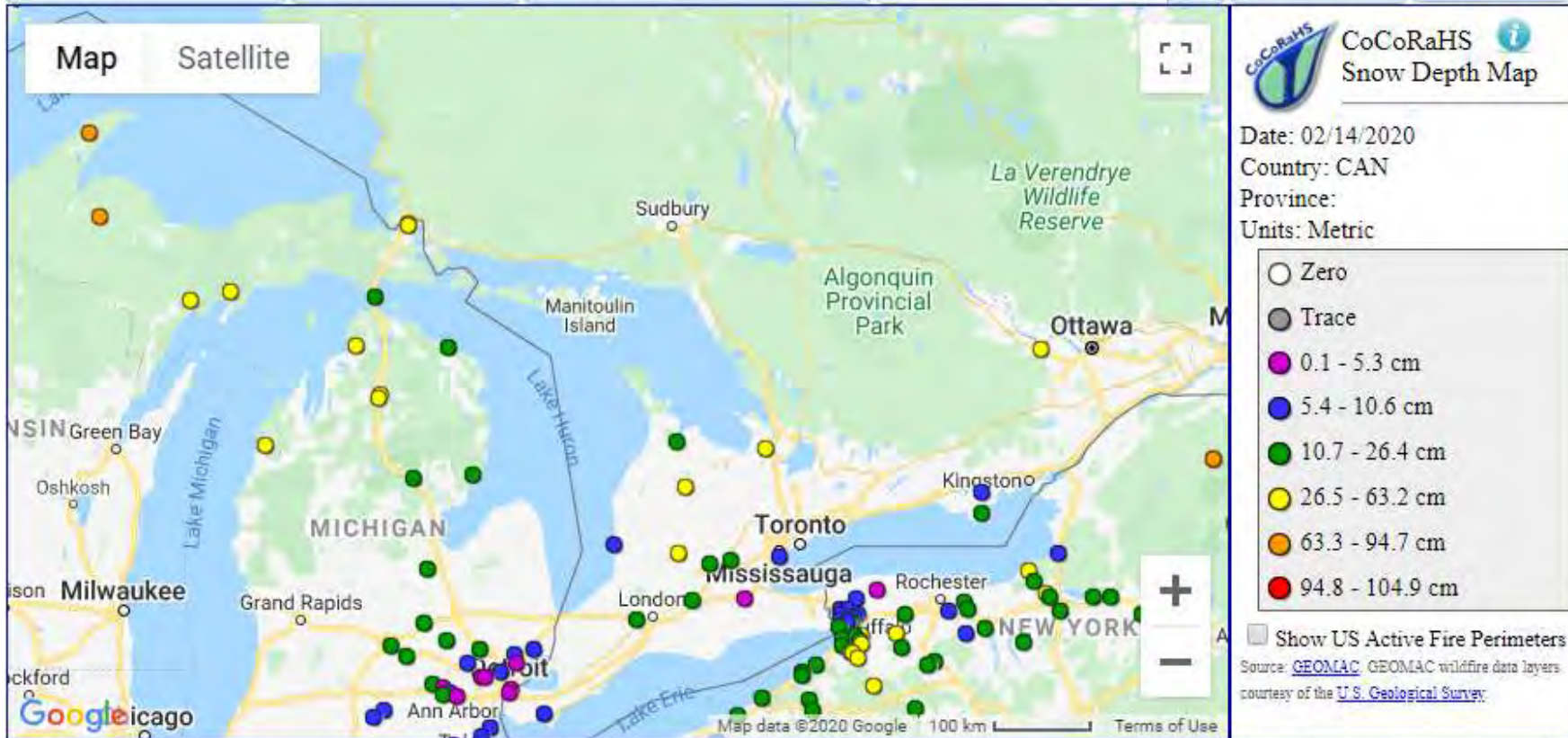


**Hail**



**Snow**





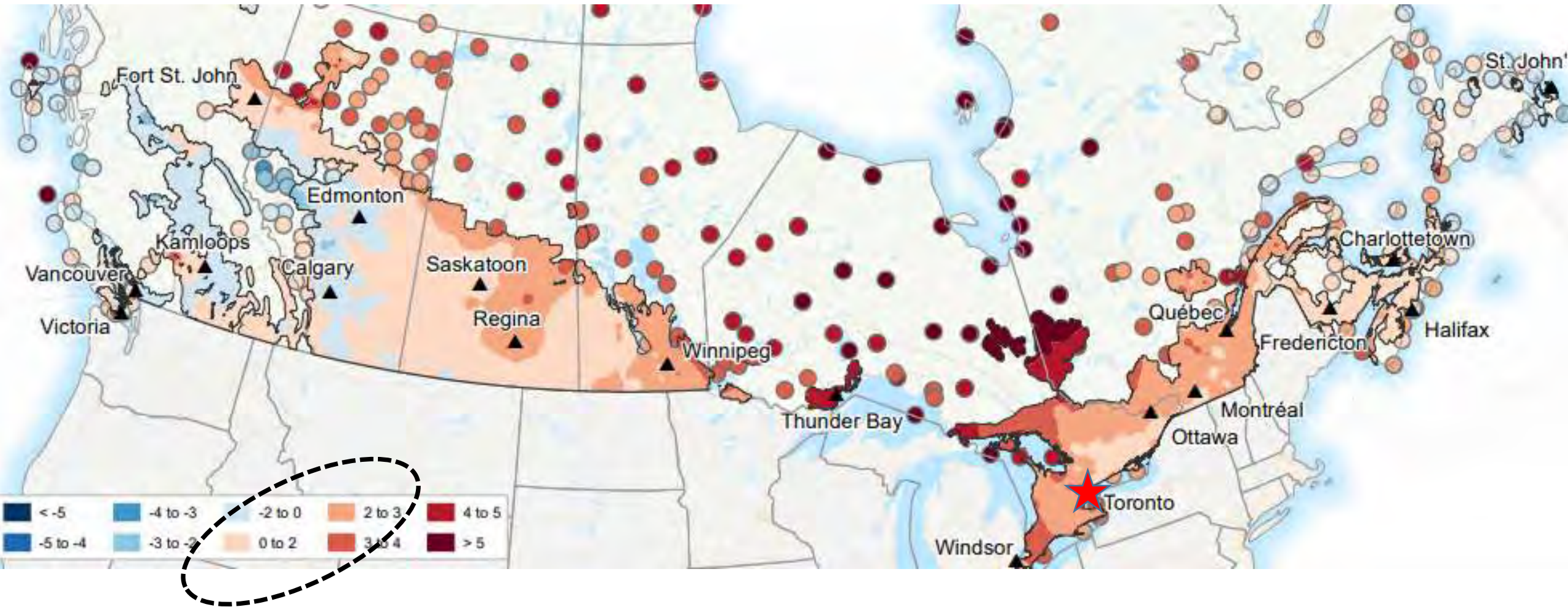
Obs Date	Obs Time	Station Number	Station Name	Precip (mm)	Snowfall (...)	Snow Depth (...)	Snow Depth SWE (...)
2020-02-14	05:00 AM	CAN-AB-15	High River 0.5 ESE - BRBC	0	0	NA	NA
2020-02-14	06:40 AM	CAN-AB-54	Cochrane 20.4 NE - BRBC	T	T	7.6	NA
2020-02-14	07:00 AM	CAN-AB-96	Calgary 14.4 SSE	T	T	NA	NA
2020-02-14	07:00 AM	CAN-AB-127	Claresholm 1.3 NNW	0	NA	NA	NA
2020-02-14	07:00 AM	CAN-AB-1	Edmonton 9.1 NNW	1.3	1.5	NA	NA
2020-02-14	08:00 AM	CAN-AB-59	Calgary 10.7 SSW	T	NA	NA	NA
2020-02-14	08:00 AM	CAN-AB-120	Taylorville 2.4 W	0	NA	NA	NA







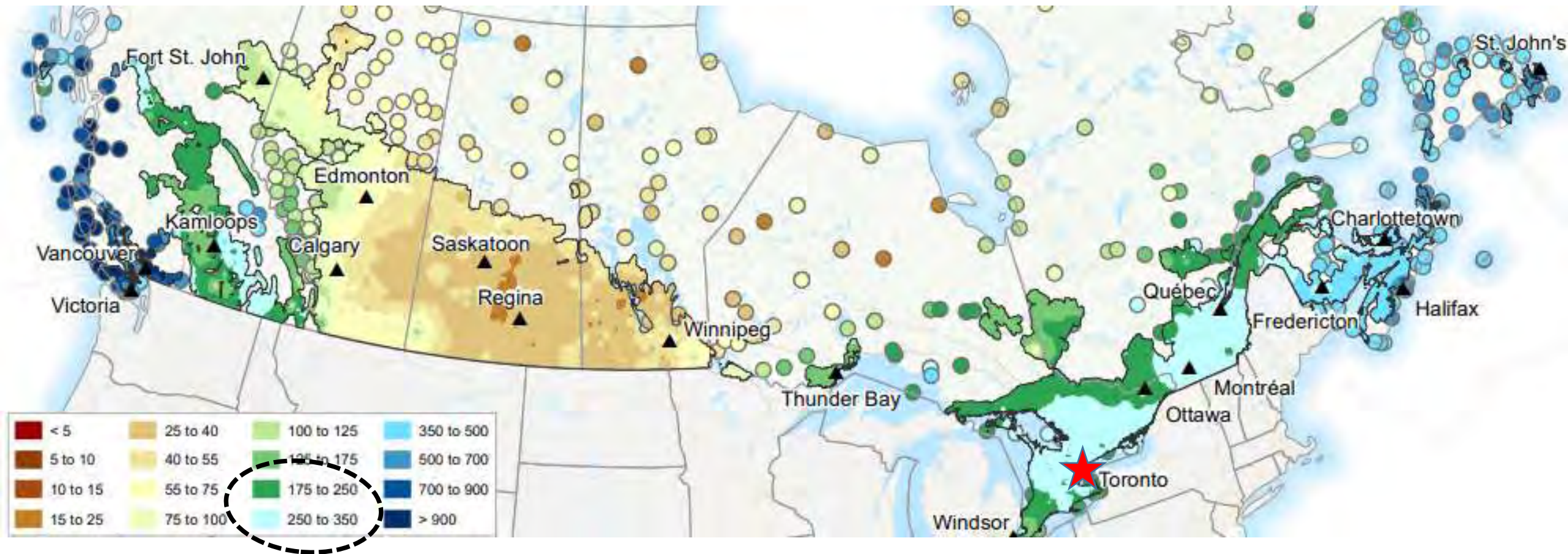
# Mean Temperature Difference From Normal Nov. 2019 through Feb. 13



<http://www.agr.gc.ca/>



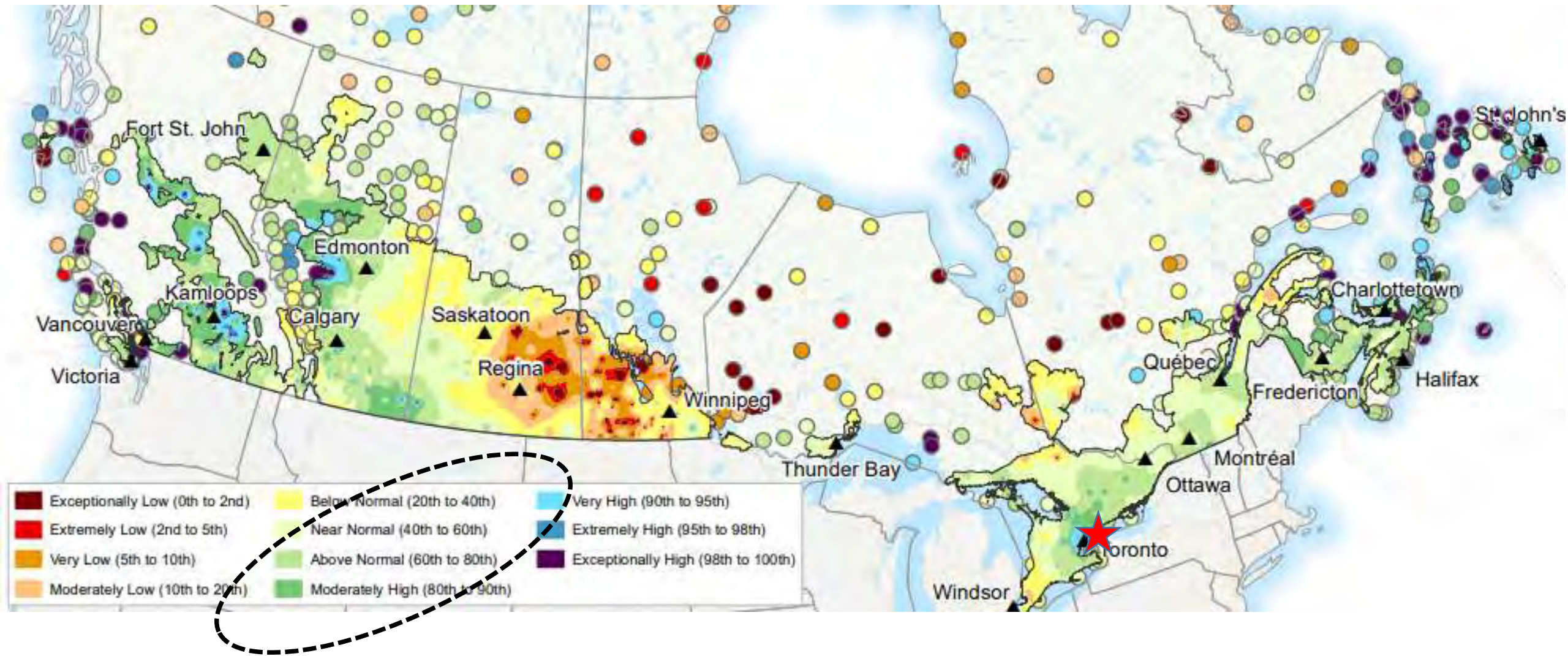
# Accumulated Precipitation Since Nov. 1 to Now



<http://www.agr.gc.ca/>



# Precipitation Percentiles



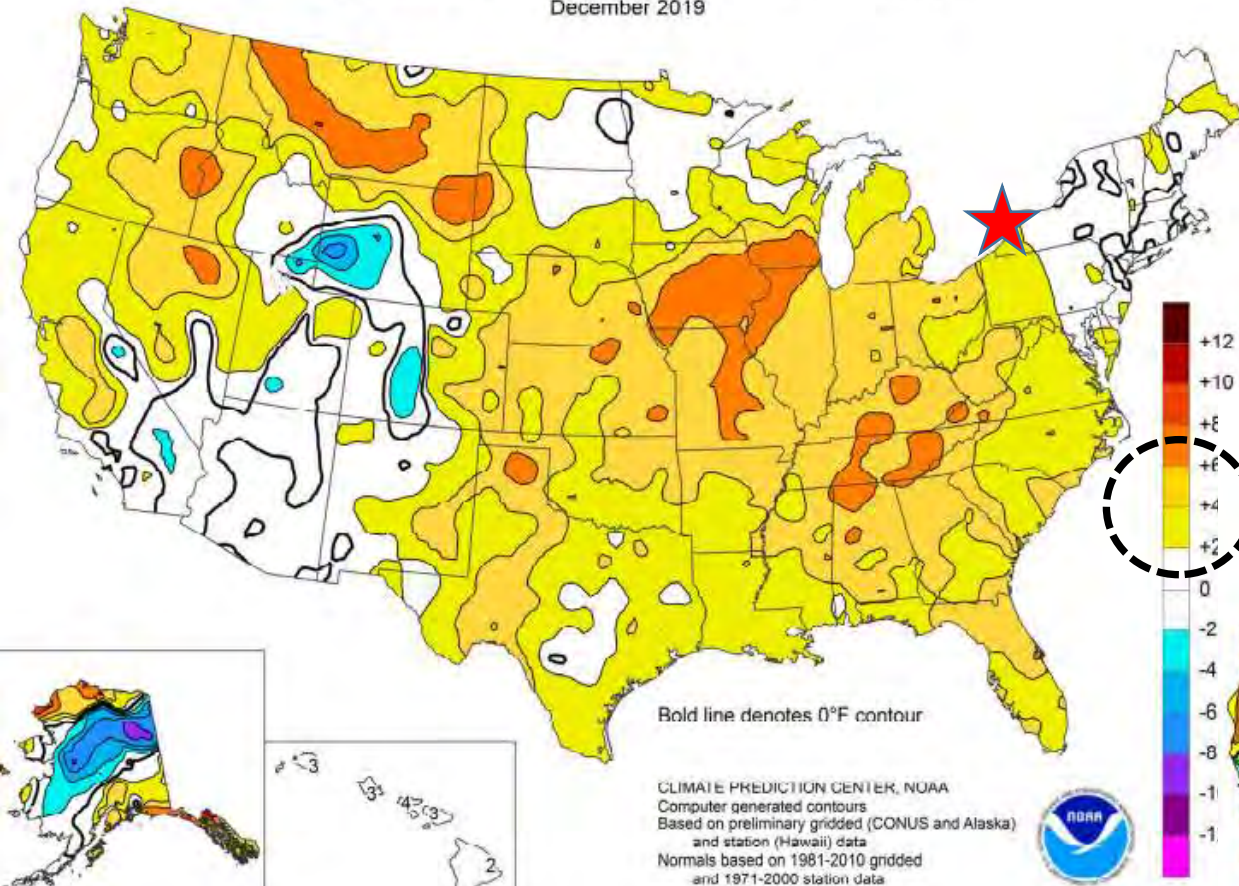
<http://www.agr.gc.ca/>



Departure of Average Temperature from Normal (°F)

December 2019

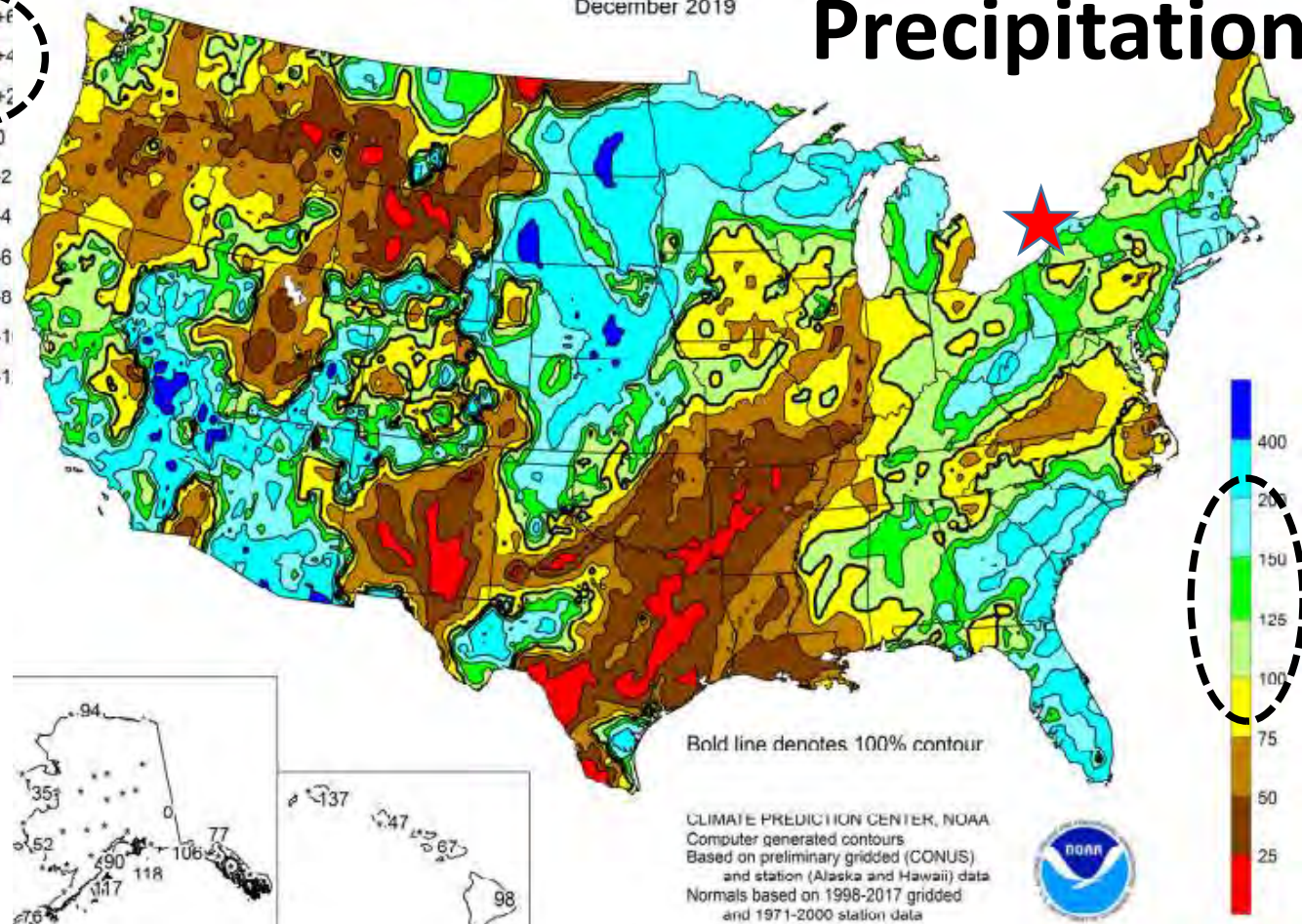
# Past Weather - December



## Temperature

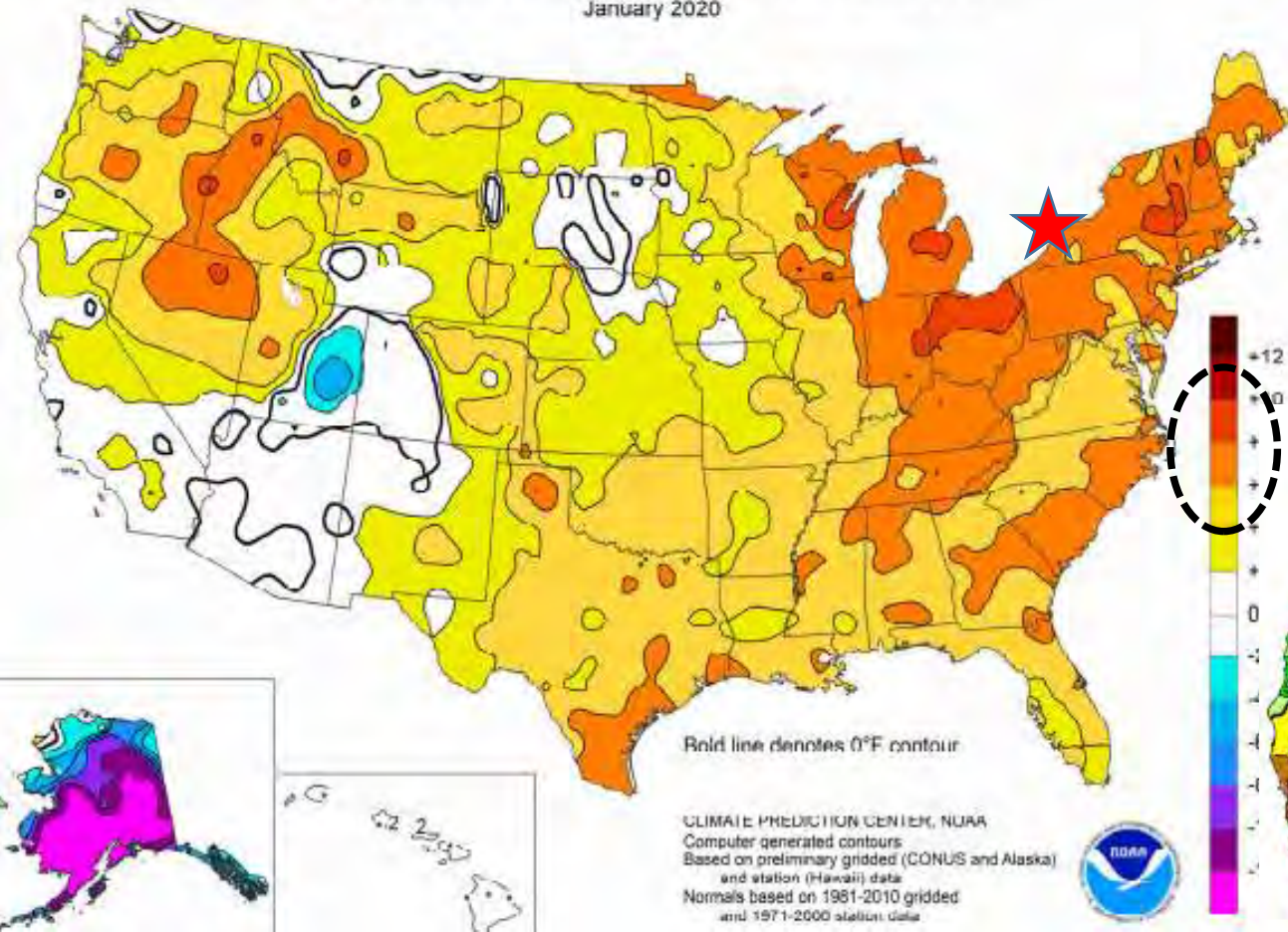
Percent of Normal Precipitation  
December 2019

## Precipitation





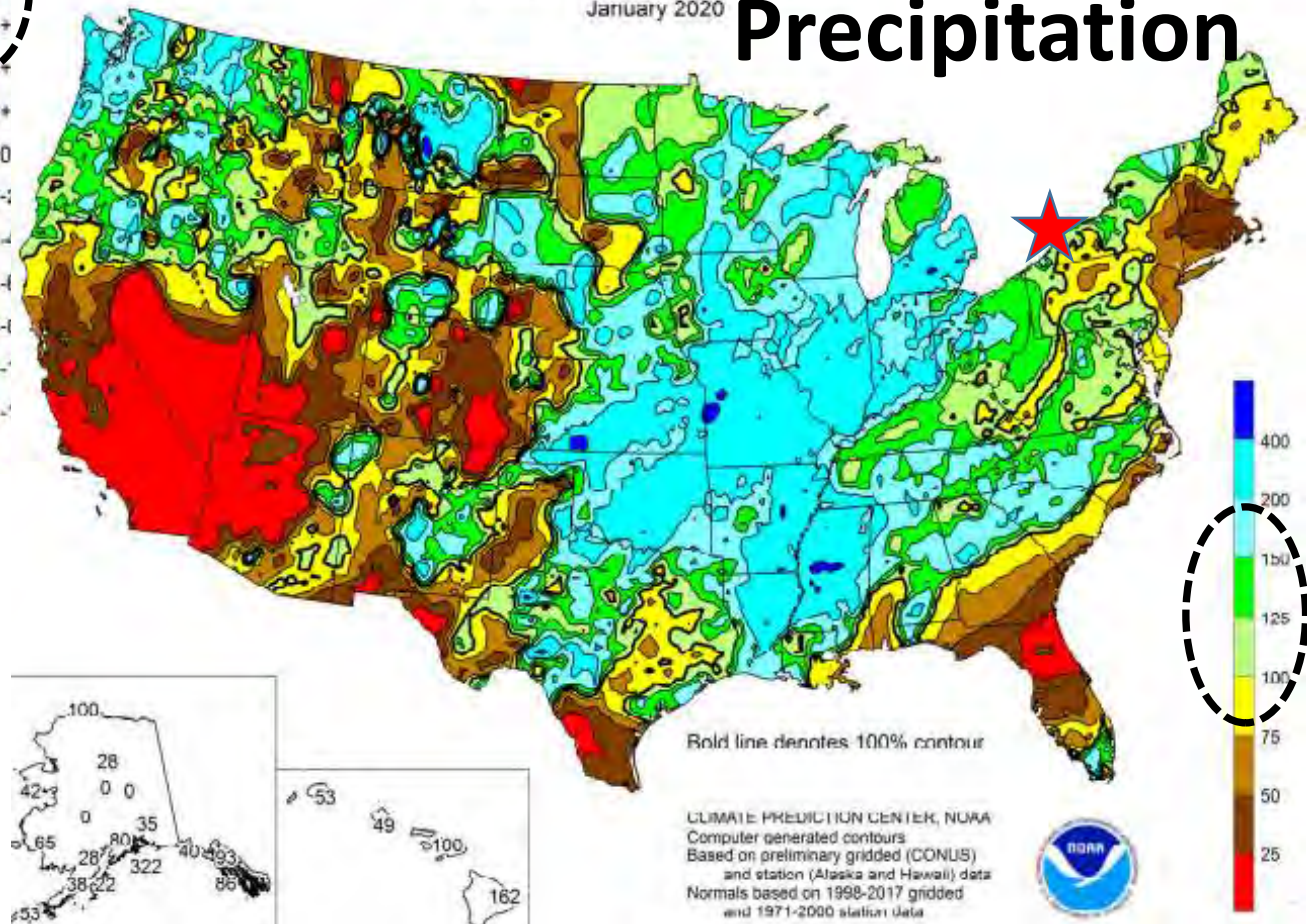
Departure of Average Temperature from Normal (°F)  
January 2020



Temperature

# Past Weather - January

Percent of Normal Precipitation  
January 2020



Precipitation

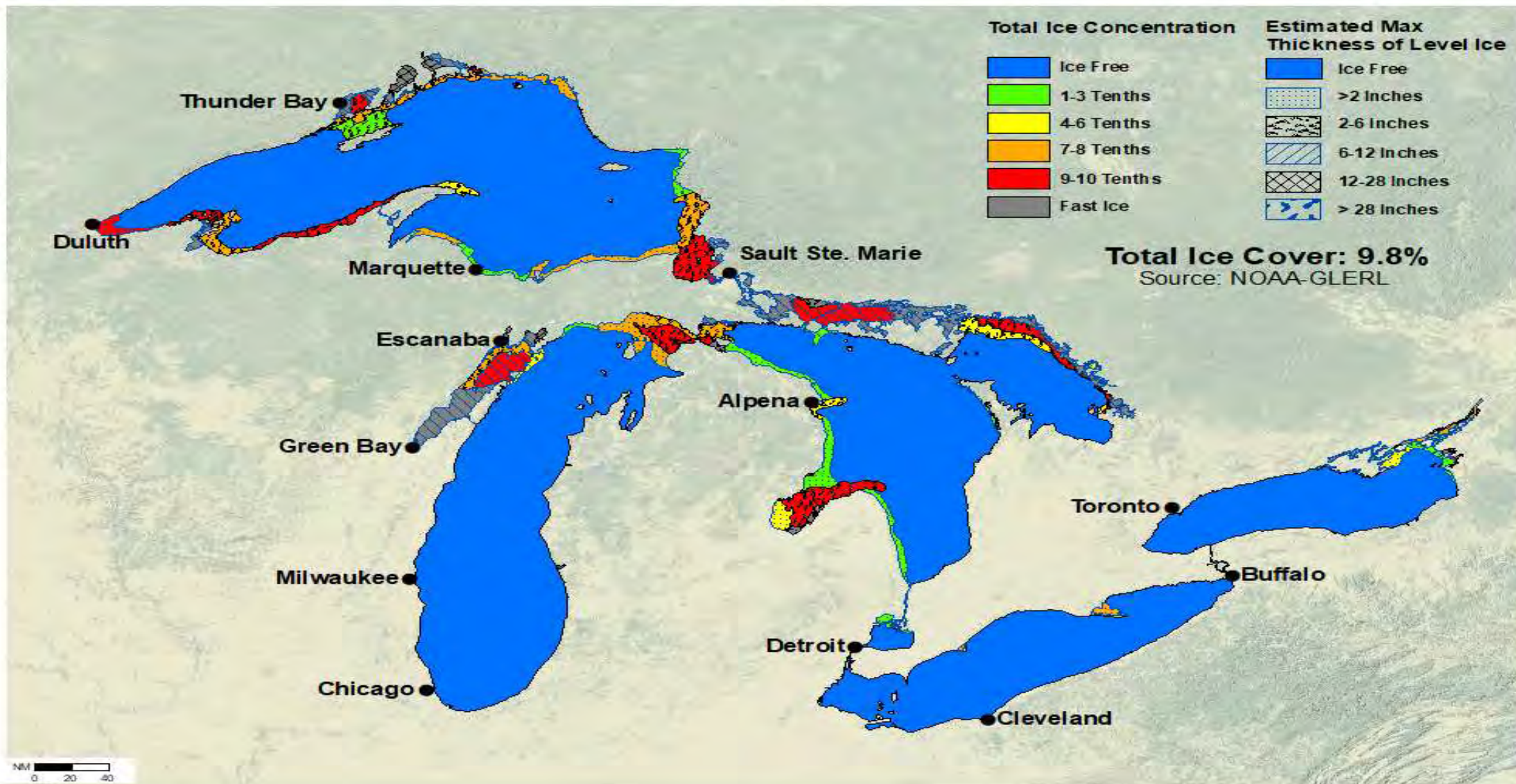




U. S. NATIONAL ICE CENTER  
**USCG DISTRICT 9 GREAT LAKES ICE**

PRODUCED: 13 FEB 2020

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## Great Lakes Annual Maximum Ice Coverage 1973-2019

