

NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116 SILVER SPRING, MD 20910	HSA OFFICE: Marquette, MI
	REPORT FOR (MONTH / YEAR): January 2021
	DATE: February 11th, 2021
	SIGNATURE: Jordan Wendt, Hydro Program Manager Robin J. Turner, MIC
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).	

X

An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

Summary

Well, the normal UP winter was still missing during the month of January as everywhere received below-normal precipitation (Figure 4). This below-normal precipitation and above-normal temperatures kept flooding potential to a minimum as USGS streamflows remained near-normal across the Lake Superior watershed and above-normal for the Escanaba and Menominee basins (Figure 1). The drier conditions are continuing to be noticed in the Climate Prediction Center’s Soil Moisture Anomaly graphics each month as the well above normal soil moisture conditions for roughly the last two years have all but vanished (Figure 5). With most of the area’s snowpack well below normal, this upcoming spring is expected to remain relatively benign, pending any drastic precipitation trend changes (Figure 2).

Location	Precipitation	% of normal	Snowfall
WFO Marquette	1.44”	60%	18.2”
Marquette City	0.71”	39%	3.5”
Quincy Hill	1.53”	M	22.6”
Ironwood	0.85”	44%	12.3”
Iron Mountain	0.51”	41%	4.3”
Manistique	0.54”	34%	4.3”
Munising	2.29”	70%	30.2”
Stambaugh	0.67”	68%	8.4”

NOTE: Precipitation after 8am EST December 31st was counted in January stats for all but the WFO Marquette site due to the reporting structure of our cooperative observers.

Flooding Conditions

There were no flooding concerns during the month of January.

River Conditions

Most basin's streamflow across Upper Michigan remained near-normal, with the Escanaba and Menominee basins averaging much above-normal (Figure 1).

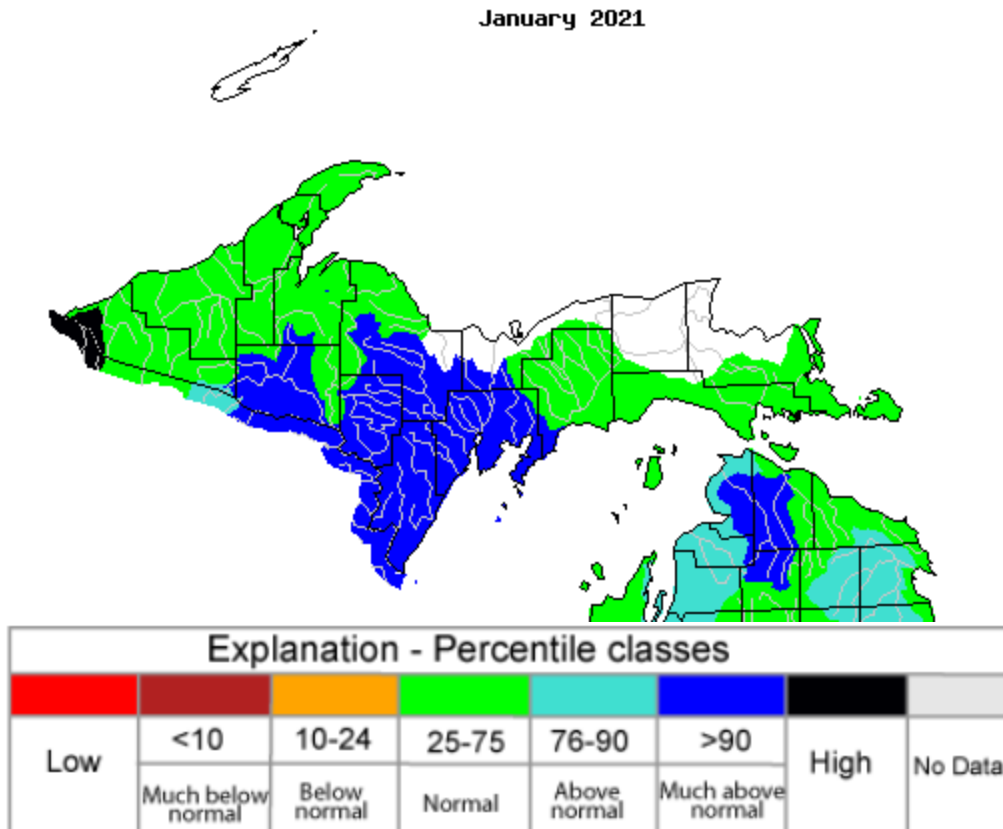


Figure 1: USGS monthly average streamflow in January 2021 across Upper Michigan

Snowpack Conditions

All of the UP was experiencing a below-normal snow depth as of February 1st (Figure 2).

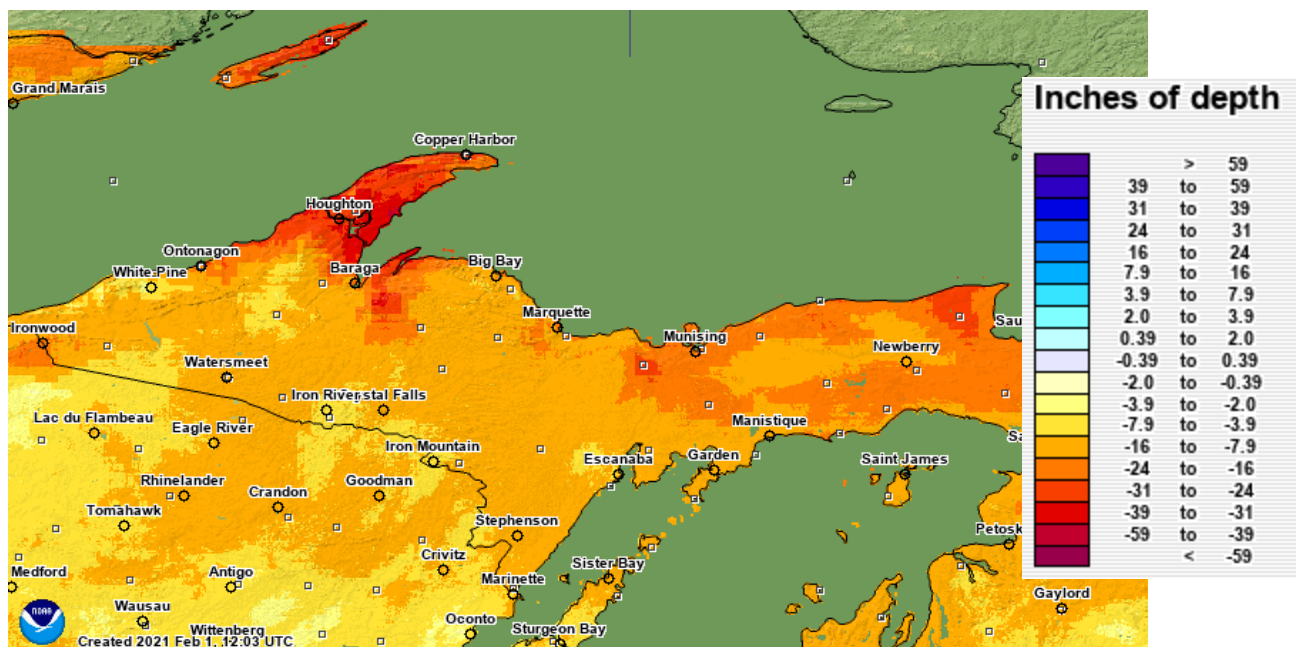


Figure 2: National Operational Hydrologic Remote Sensing Center's modeled snow depth departure from normal as of January 1st, 2021.

Drought Discussion

A small area of D0 was recently added to far western Gogebic and a sliver of Ontonagon counties. This is mainly because of continued below-normal precipitation. For the latest drought status, please go to <http://www.drought.gov>.

Media Links

None.

Hydro Products Issued

- 0 – Hydrologic Outlook (ESF)
- 0 – Flood Watch (FFA)
- 0 – Flood Warning (FLW)
- 0 – Flood Advisories and Statements (FLS)
- 0 – Flash Flood Warning (FFW)
- 0 – Flash Flood Statement (FFS)
- 31 – Hydrologic Summary (RVA)
- 0 – Daily River Forecasts (RVD)

Accumulated Precipitation (in)
January 1, 2021 to January 31, 2021

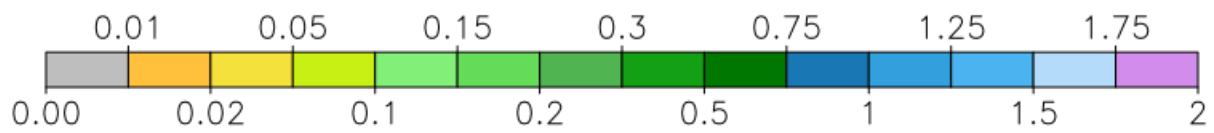
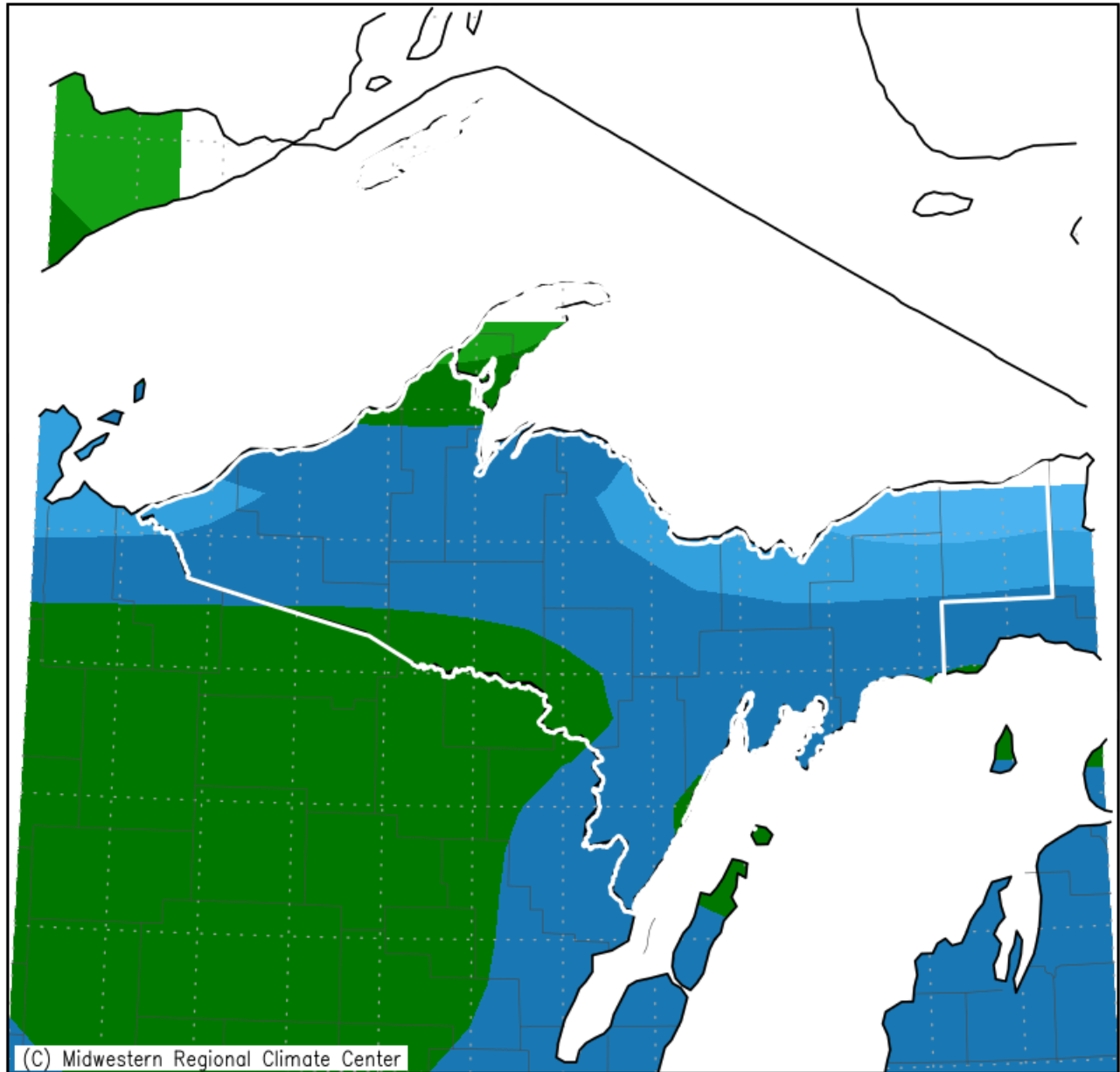
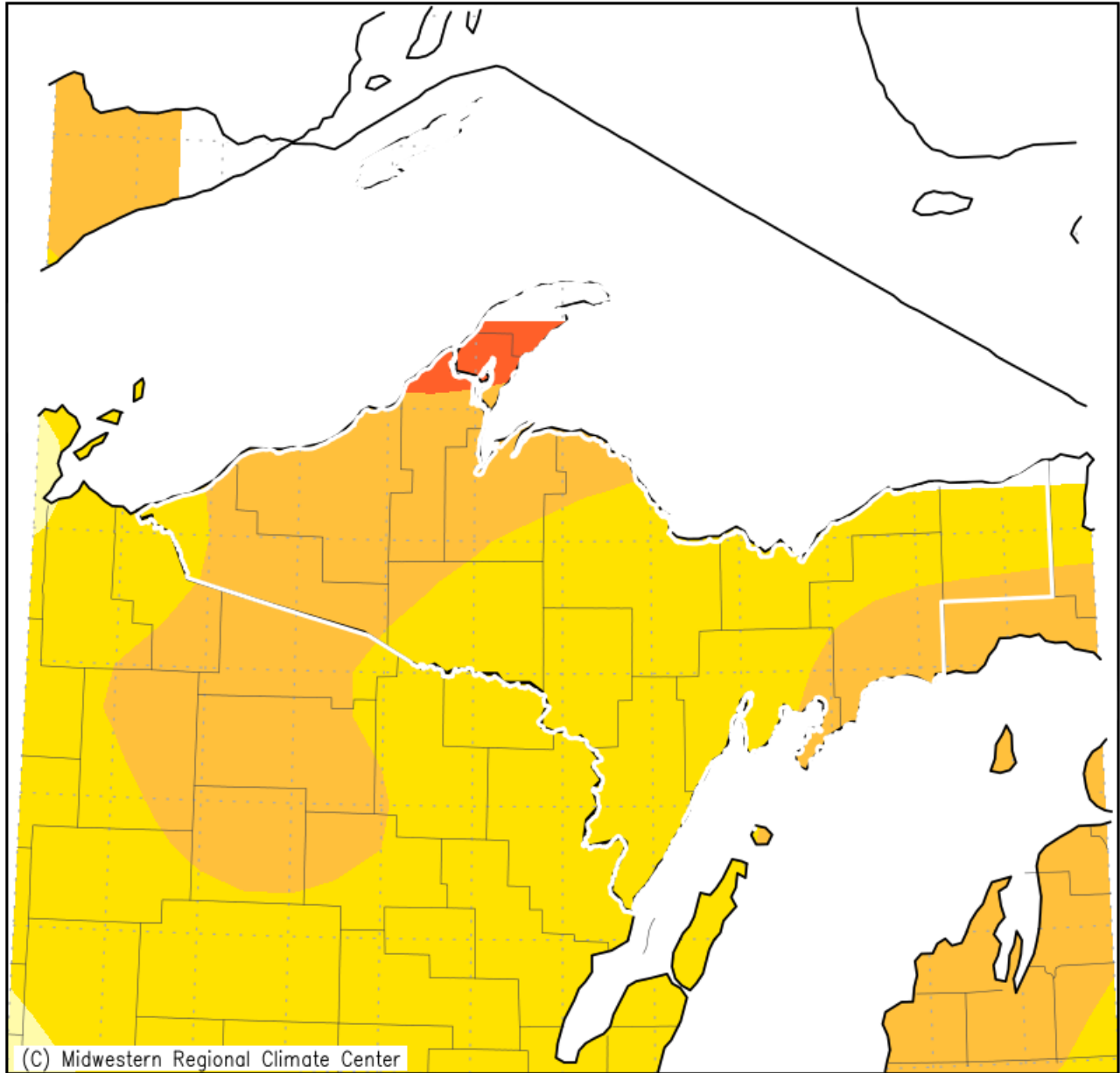


Figure 3: January 2021 Monthly Precipitation Totals.

Accumulated Precipitation: Percent of Mean January 1, 2021 to January 31, 2021



Mean period is 1981–2010.



Figure 4. January 2021 Percent of Normal of Accumulated Precipitation

Calculated Soil Moisture Anomaly (mm) JAN, 2021

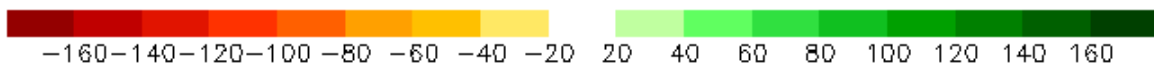
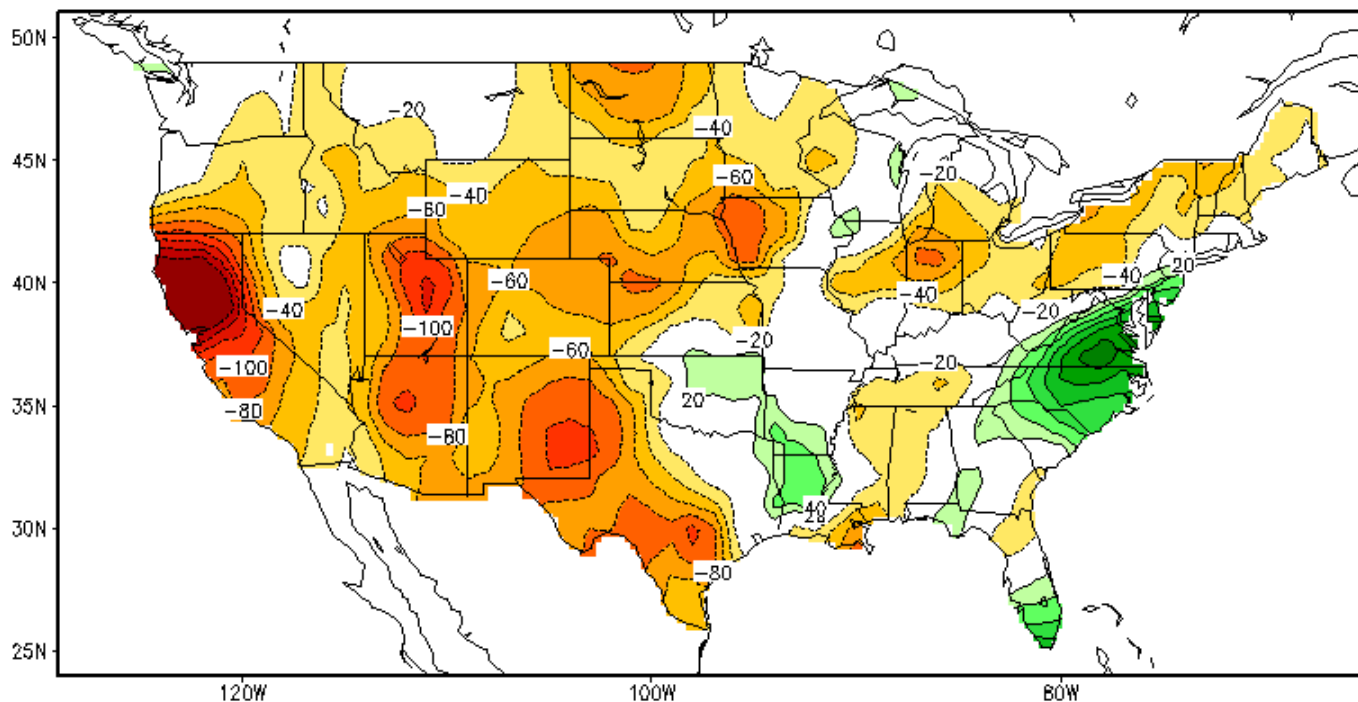


Figure 5: Climate Prediction Center's monthly average soil moisture anomaly for January 2021.