

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):
June 2020

DATE: **July 10th, 2020**

SIGNATURE:
Jordan Wendt, Hydrology 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.

June Summary

June was a relatively normal month in the hydrologic frame of reference. Most rivers were near normal in their respective summertime base flow; some basins along the central and eastern Lake Michigan watershed were slightly above normal, coinciding with slightly above normal monthly precipitation (Figure 3). With above normal temperatures and below normal precipitation across the far western portions of Upper Michigan, dry conditions were starting to cause some early concerns for drought (Figure 3 & 5), but rain early on in July has cut into that deficit (Figure 6).

Location	Precipitation	% of normal	Snowfall
WFO Marquette	4.20"	148%	0.0"
Marquette City	3.63"	135%	0.0"
Quincy Hill	2.77"	M	0.0"
Ironwood	2.67"	73%	0.0"
Iron Mountain	5.36"	154%	0.0"
Manistique	3.63"	123%	0.0"
Munising	4.39"	131%	0.0"
Stambaugh	4.35"	117%	0.0"

NOTE: Rainfall after 8am EST May. 30th was counted in June stats for all but the WFO Marquette site due to the reporting structure of our cooperative observers.

June Flooding Conditions

No river flooding concerns occurred during the month of June across Upper Michigan.

June River Conditions

River levels in the NWS Marquette Hydrologic Service Area were near-normal in most basins and slightly above normal across the basins along Lake Michigan (Figure 1).

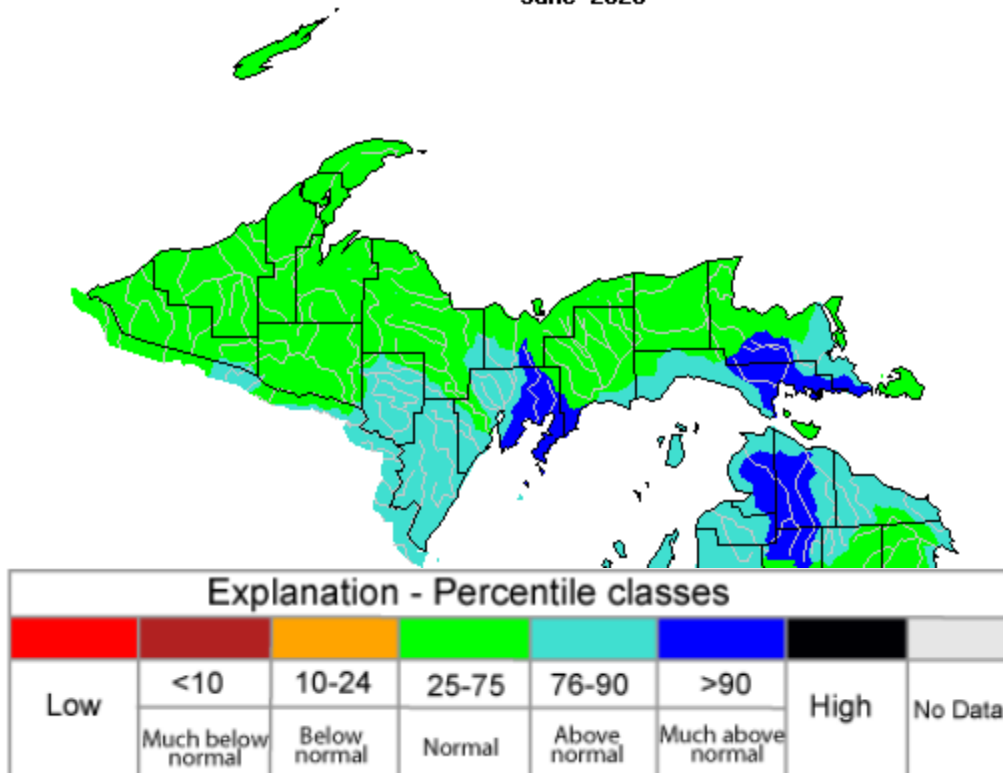


Figure 1: USGS monthly average streamflow in June 2020 across Upper Michigan

Snowpack Discussion

Snowpack across Upper Michigan has ended for the season.

Drought Discussion

No drought conditions were depicted in the Upper Peninsula for the month of June. During the start of July, there are some abnormally dry areas across the far western portions of Upper Michigan. This past week's rain have brought some relief already for these areas (Figure 6). For the latest drought status, please go to <http://www.drought.gov>.

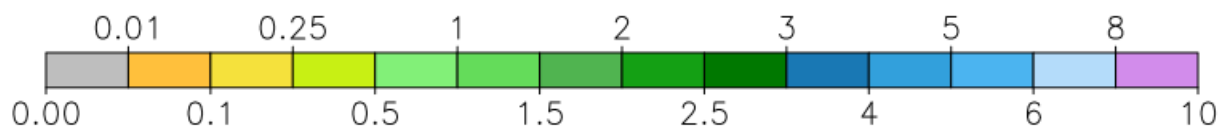
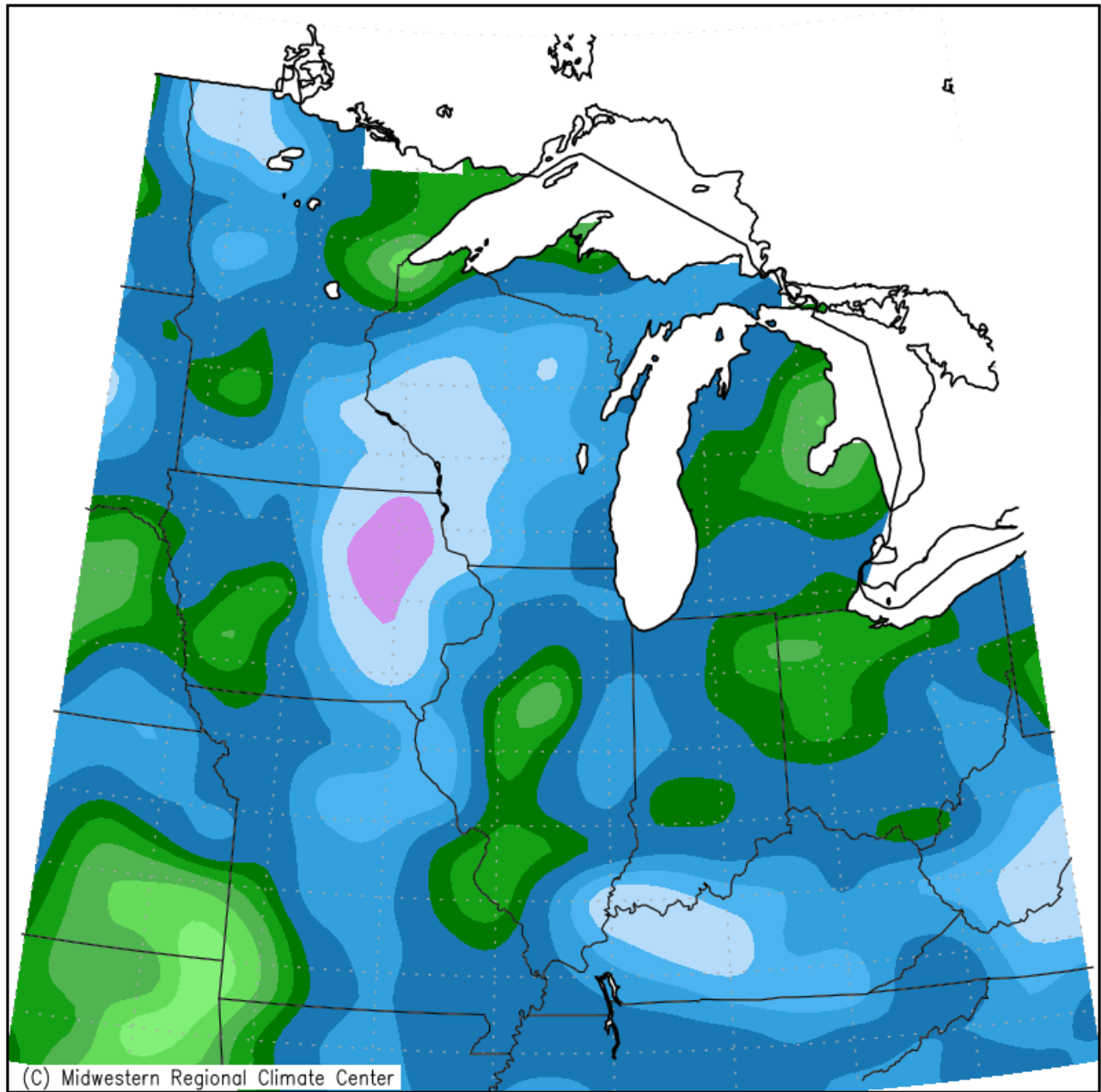
Media Links

None.

June Hydro Products Issued

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

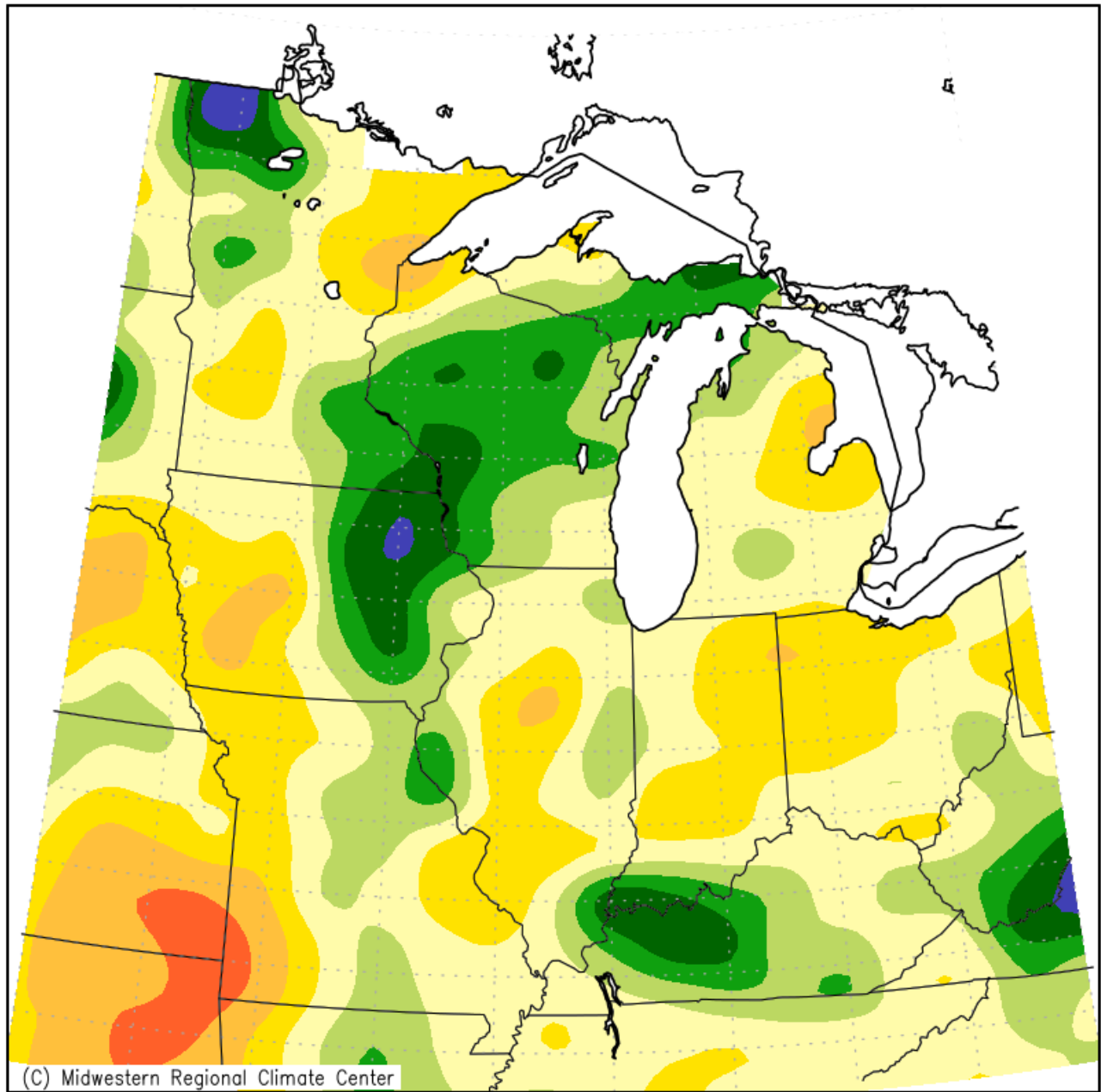
Accumulated Precipitation (in)
June 1, 2020 to June 30, 2020



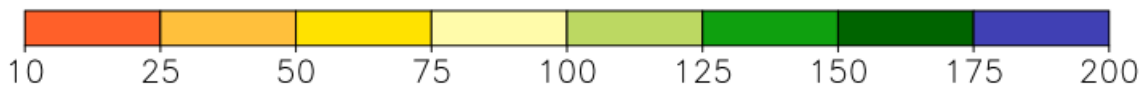
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign

Figure 2. June 2020 Monthly Precipitation Totals.

Accumulated Precipitation: Percent of Mean June 1, 2020 to June 30, 2020



Mean period is 1981–2010.



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Figure 3. June 2020 Percent of Normal of Accumulated Precipitation

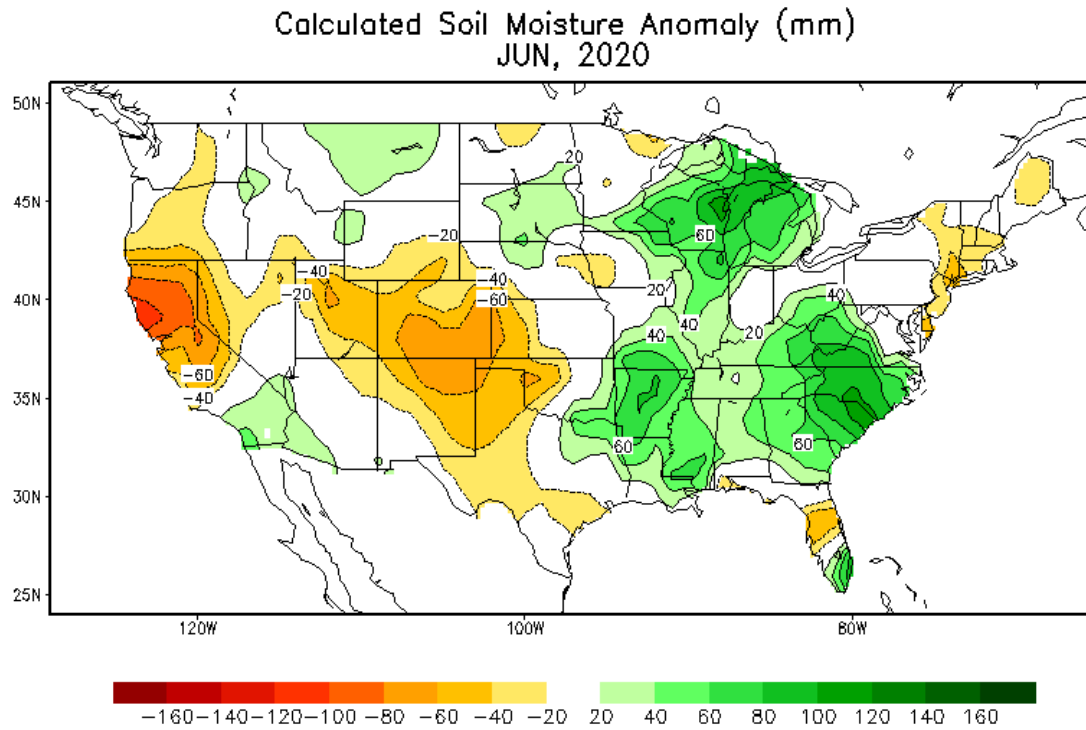


Figure 4: Climate Prediction Center monthly average soil moisture anomaly for June 2020

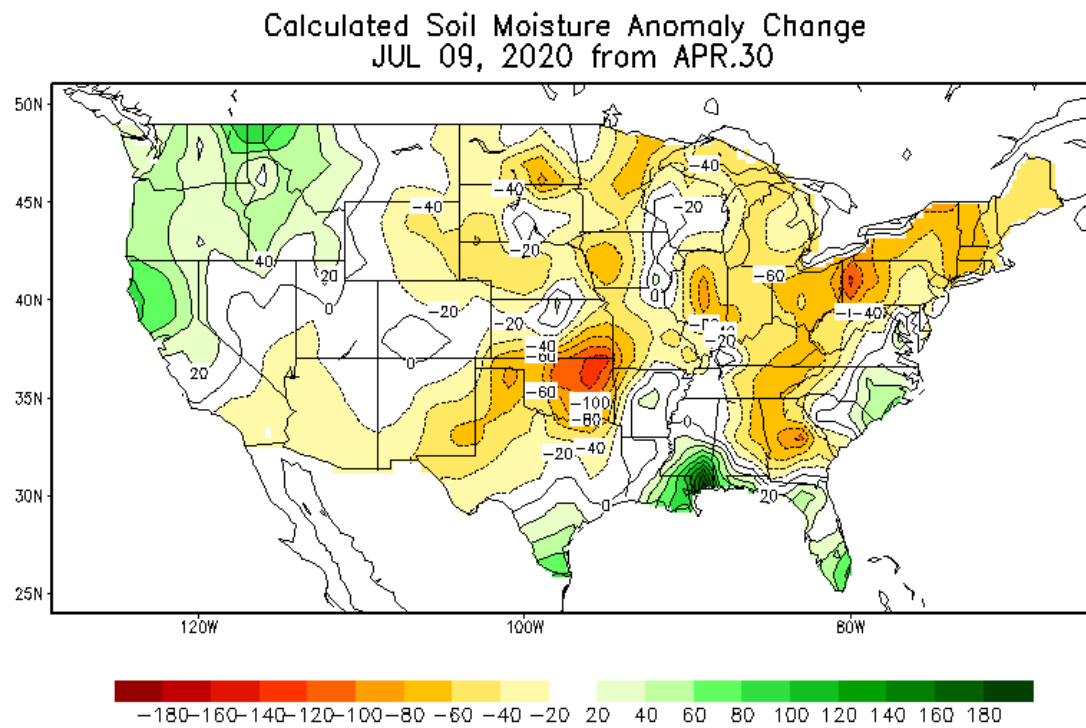


Figure 5: Climate Prediction Center soil moisture anomaly change from 30 Apr until 9 Jul

Calculated Soil Moisture Anomaly Change
JUL 09, 2020 from JUN.30

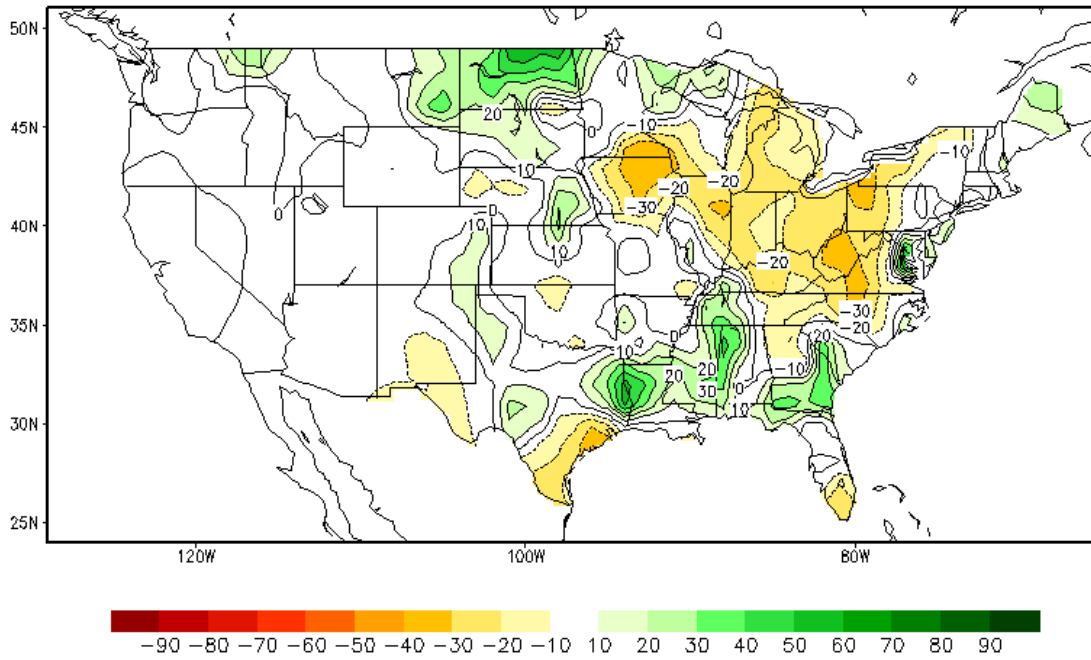


Figure 6: Climate Prediction Center soil moisture anomaly change from 30 Jun to 9 Jul