NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Burlington VT
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH June YEAR 2018
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE /s/ Robert Deal, Meteorologist DATE 07/22/2018

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

☐ An X inside this box indicates that no flooding occurred within this hydrologic service area.

June 2018 will be characterized as an intensification of drought conditions as nearly all locations across the North Country ended the month 1 to 3 inches below normal with the higher elevations in the Greens and Adirondacks ending up 3 to 4 inches below normal.

On the first day of June a low pressure system swept a cold front across the North Country during the overnight hours and produced areas of heavy rainfall with several locations seeing between 0.75 to as much as 2.0 inches of rainfall mainly across Northern New York and the western Champlain Valley. This caused increases in the New York Rivers, noticeably the Au Sable, however with the rivers running quite low due to the drought conditions water was well within its banks and no flooding was recorded.

The next heavy rainfall event was during the afternoon of June 18th where several rounds of scattered strong to locally severe storms produced a swath of 2 to 3 inches of rainfall during the evening hours. This caused local flooding on Duane Rd in Whippleville, NY where at least one resident had to be evacuated.

The last moderate to heavy rainfall event occurred on June 27 as warm front brought 0.50 to 1 inch of rain across much of the southern portions of the North Country. The Rutland Airport received a spot 2.25 inches of rainfall with this system.

While there were three periods of moderate to heavy rainfall all were spread out enough that local area rivers only saw modest rises and no river reached flood or even near flood stage. The North Country started the month of June below D0 drought status however by the end of the month nearly all of Vermont was in D0 drought status with southern Vermont increased to D1 drought status. The Adirondack region of Northern New York increased to D0 status by the end of the month.

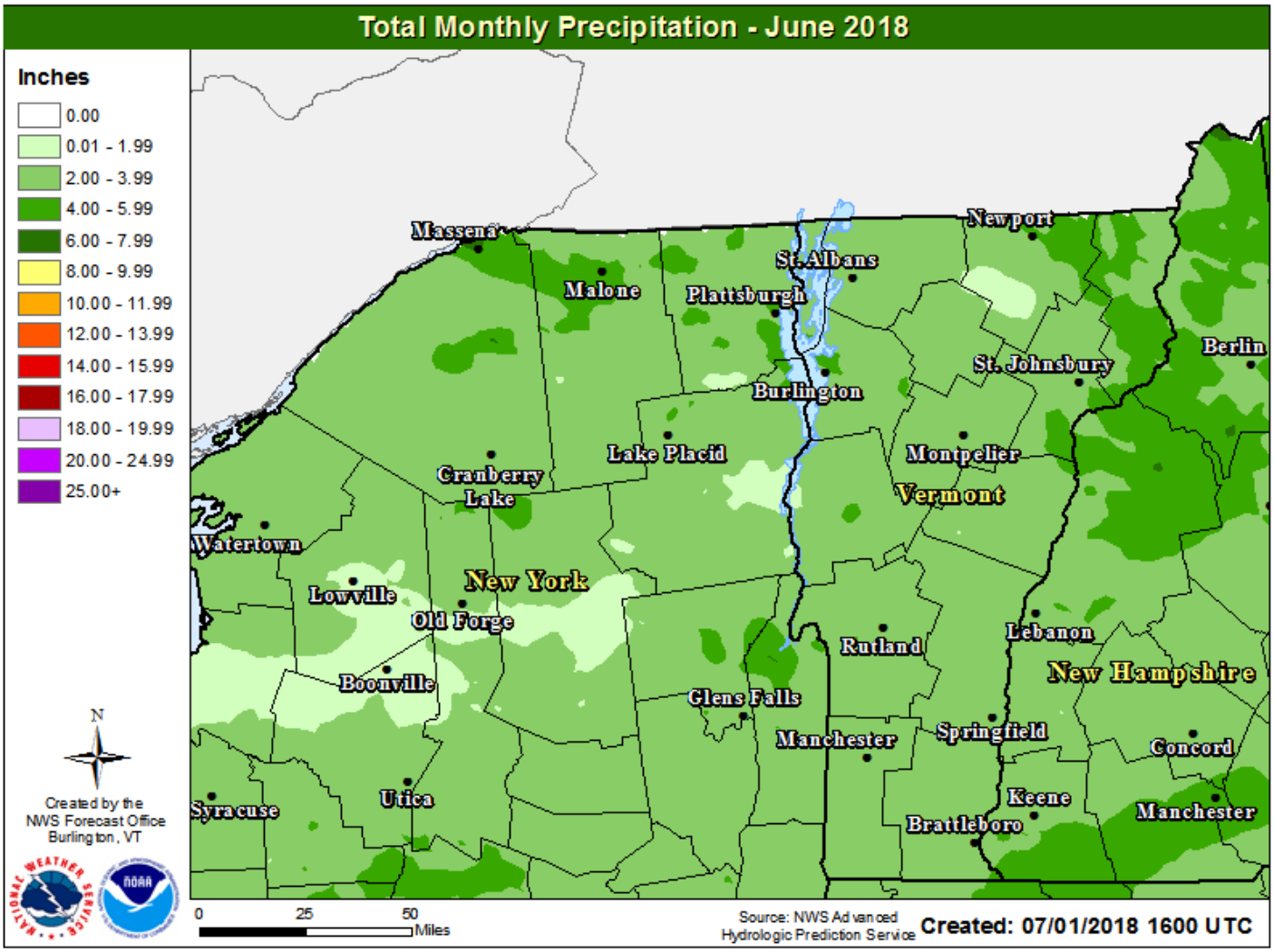

Figure 1: Monthly precipitation for June 2018.

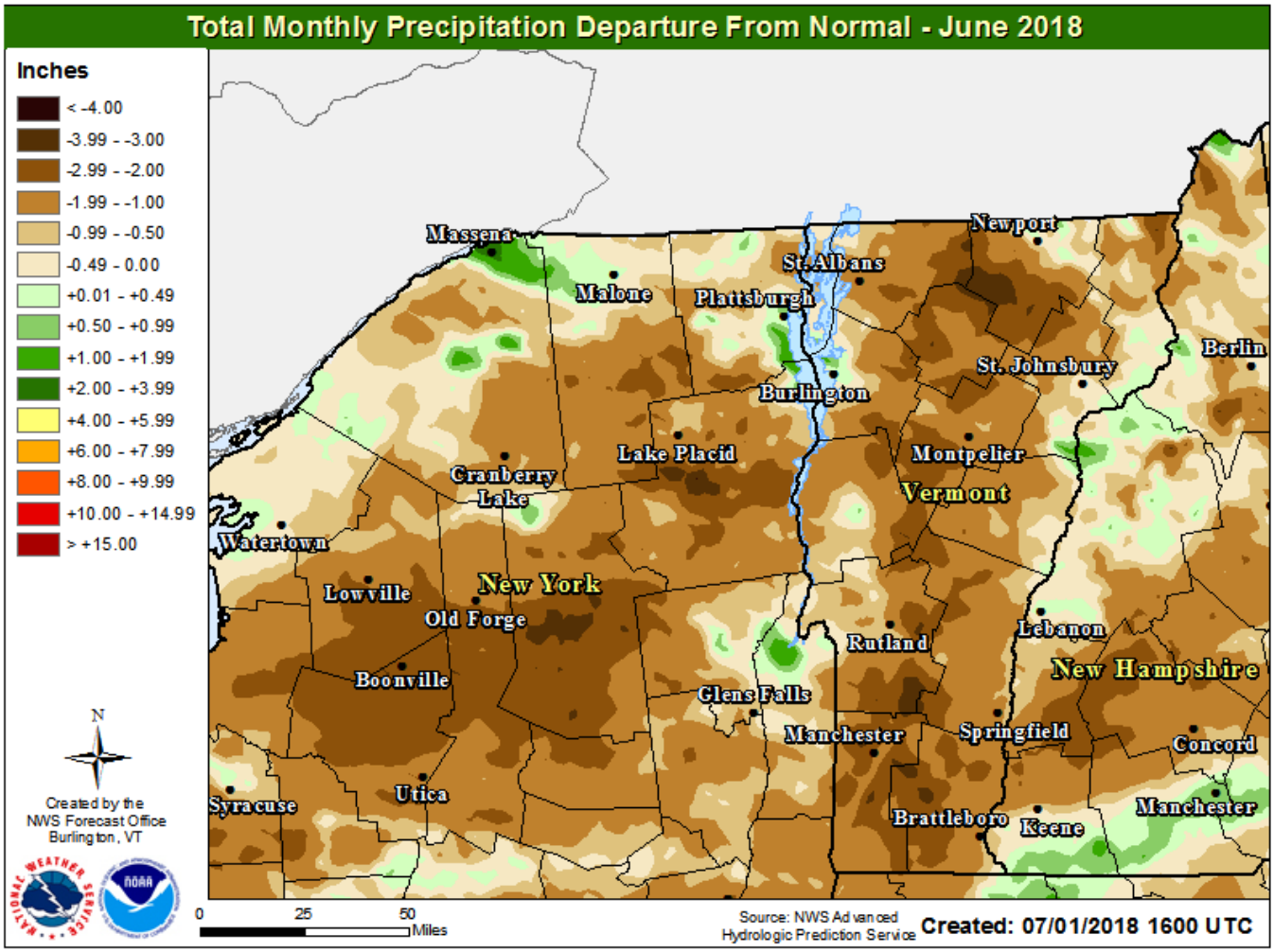

Figure 2: Monthly precipitation departure from normal for June 2018 for the Burlington, VT HSA. Negative departures were seen across almost the entire region, with deficits of up to 3 inches observed across portions of the northern Green Mountains and in the high peaks region of the Adirondacks.

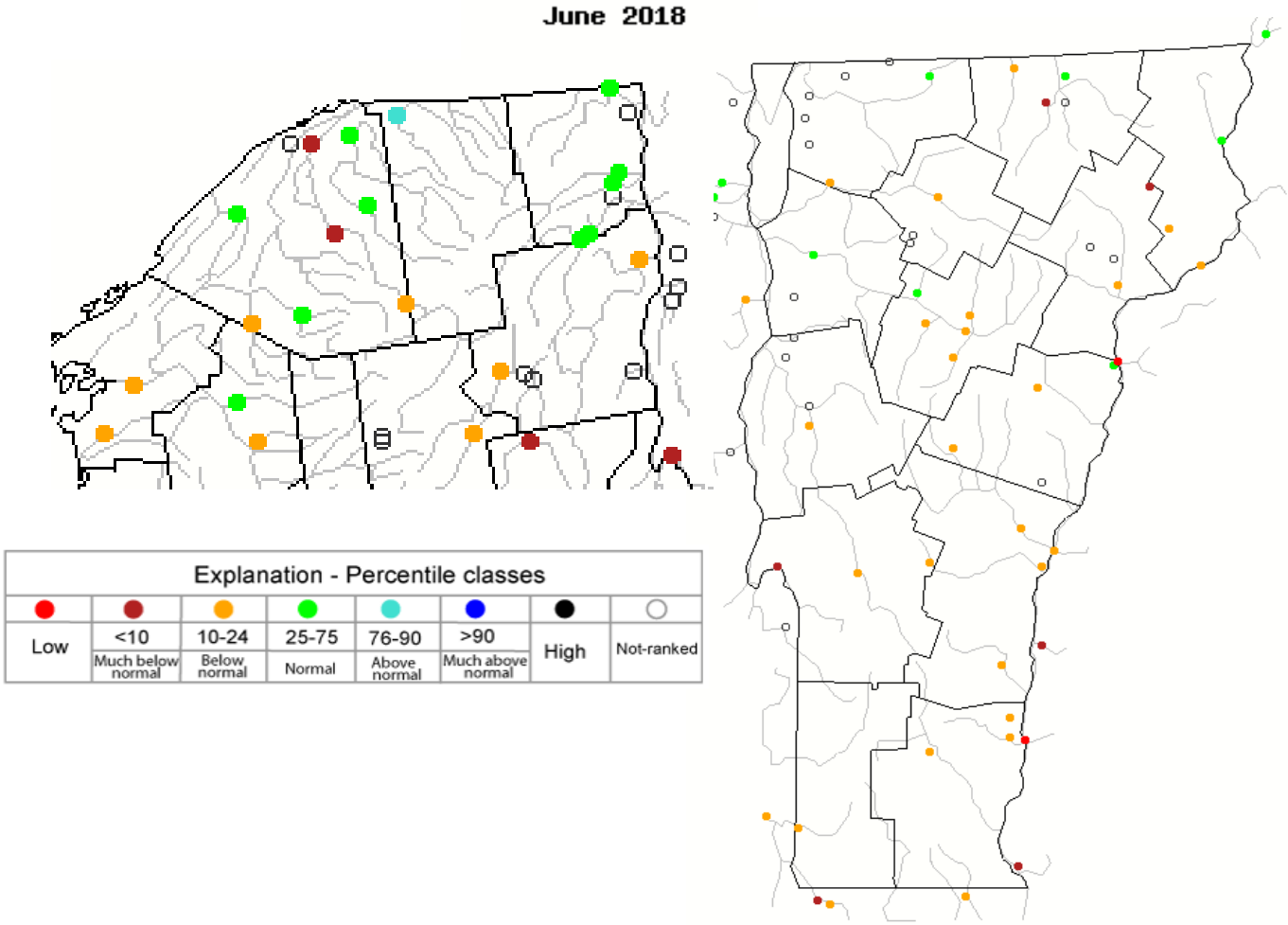

Figure 3: June 2018 monthly average streamflow for Northern New York and Vermont, showing normal to well below normal area-wide.

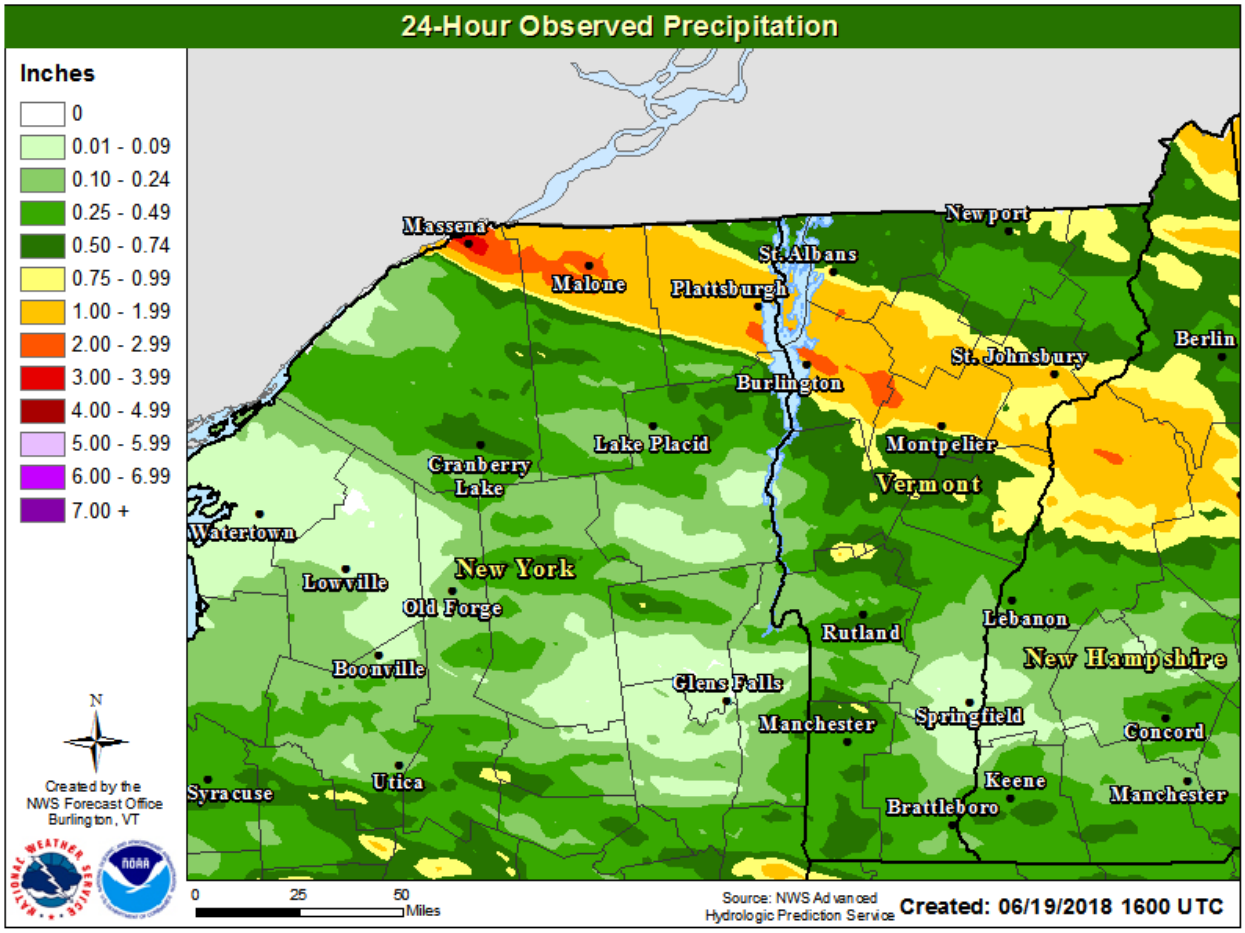

Figure 4: June 18, 2018 swath of heavy rainfall across the St Lawrence Valley southeast towards north central Vermont.

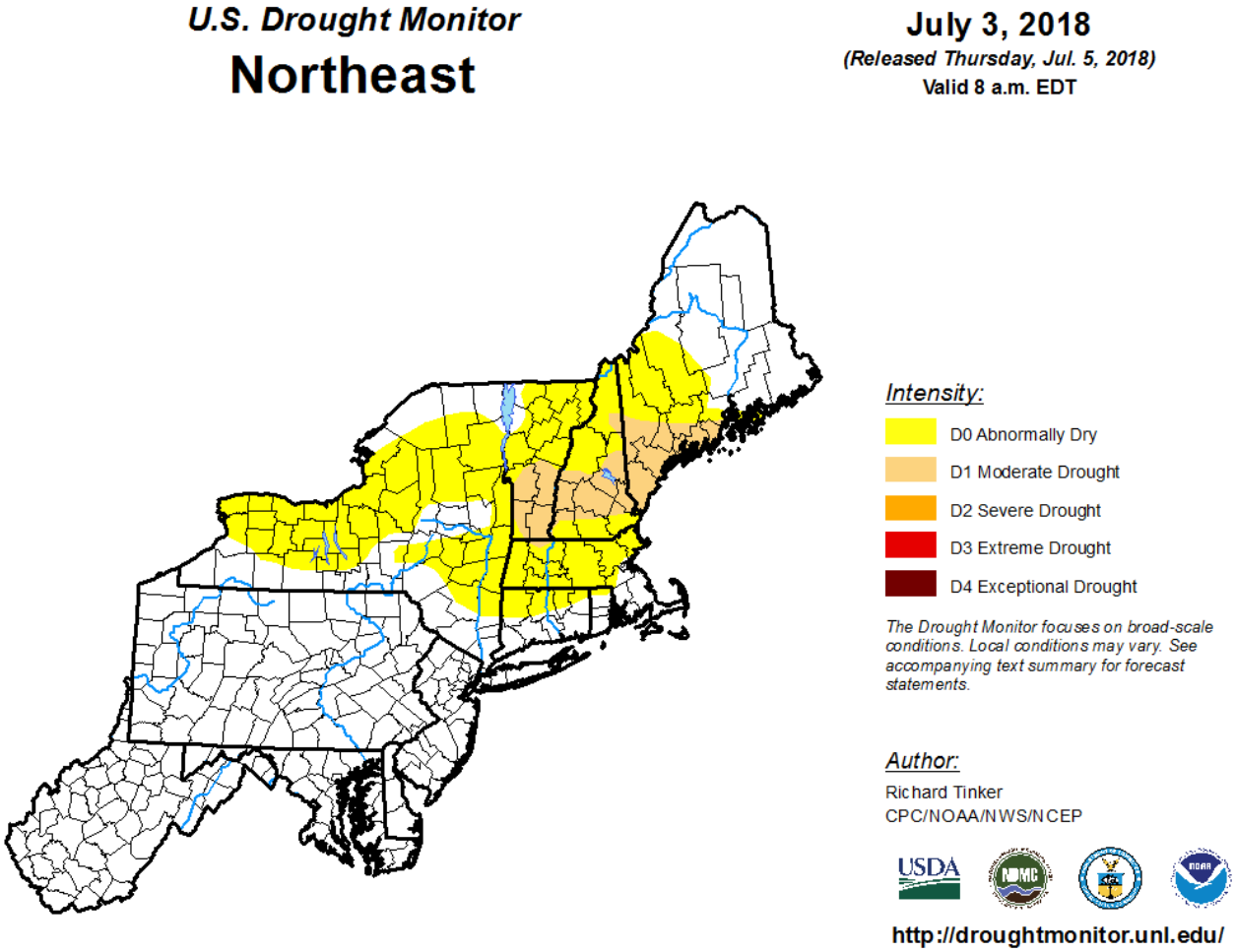

Figure 5: Drought status ending the month of June.