

<b>NWS Form E-5</b> (04-2006) (PRES. BY NWS Instruction 10-924)	<b>U.S. DEPARTMENT OF COMMERCE</b> <b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</b> <b>NATIONAL WEATHER SERVICE</b>	<b>HYDROLOGIC SERVICE AREA (HSA)</b>  Burlington VT
		<b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		<b>REPORT FOR:</b> MONTH      YEAR November    2018
		<b>SIGNATURE</b>  /s/ John Goff, Meteorologist
		<b>DATE</b>  December 18, 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.

November 2018 was a stark contrast to the warm and dry pattern that had been persistent over much of summer and early fall. A distinct pattern change to one of northwesterly flow interacting with Gulf and Atlantic moisture lead to a cold and snowy 30 day period. As a result, mean monthly negative temperature departures from -3.0 °F to -6.0 °F were common across the Burlington HSA with average precipitation departures ranging from +1.5 to 3.0 inches at most observing sites (fig. 1). Not surprisingly, monthly snowfall was also well above normal with 1 to 3 foot totals the norm for the HSA as a whole. This allowed for an early start to ski season for area resorts, and from a hydrological perspective helped improve long term dryness across portions of northeastern New York and northwestern Vermont which had been in long term drought for much of the year (fig. 2). The most impactful systems to affect the area occurred on the 13<sup>th</sup>, from the 15<sup>th</sup> to the 16<sup>th</sup>, and again on the 26<sup>th</sup> and 27<sup>th</sup>. The latter two events produced significant snowfall across portions of the forecast area, in some cases greater than 1 foot (figs. 3 and 4).

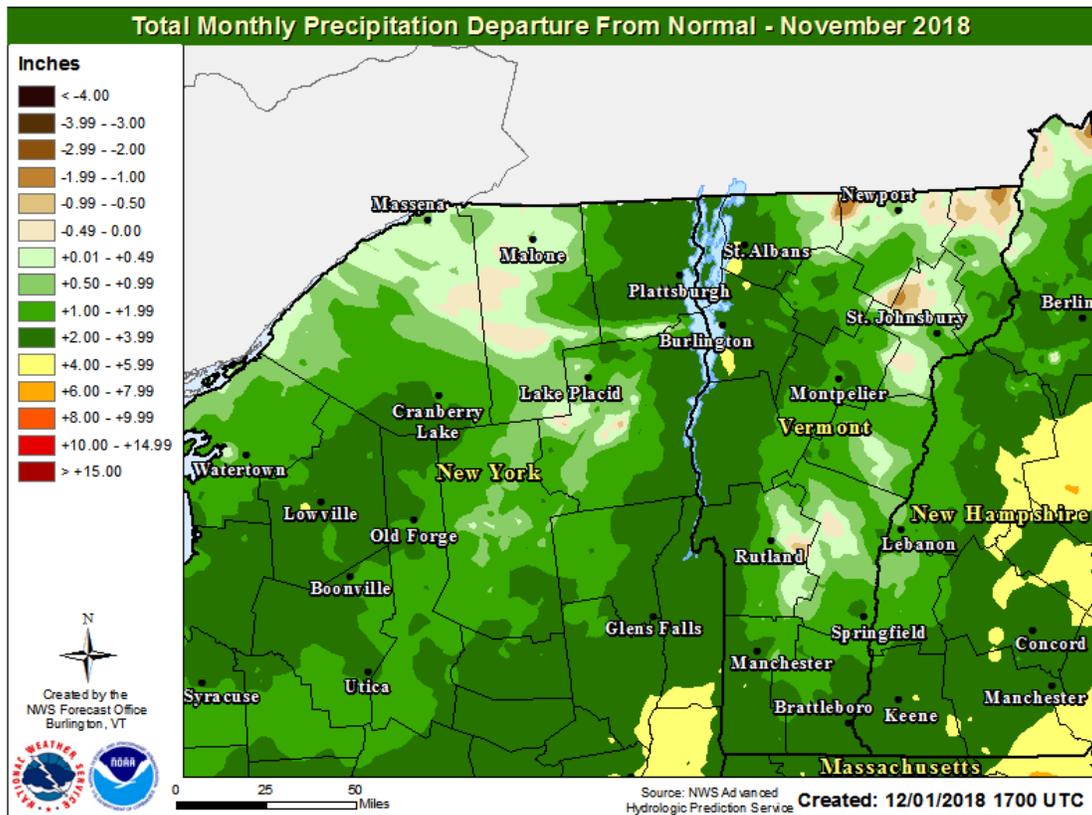


Figure 1: Monthly precipitation departure from normal for November 2018 (NWS Burlington, VT HSA).

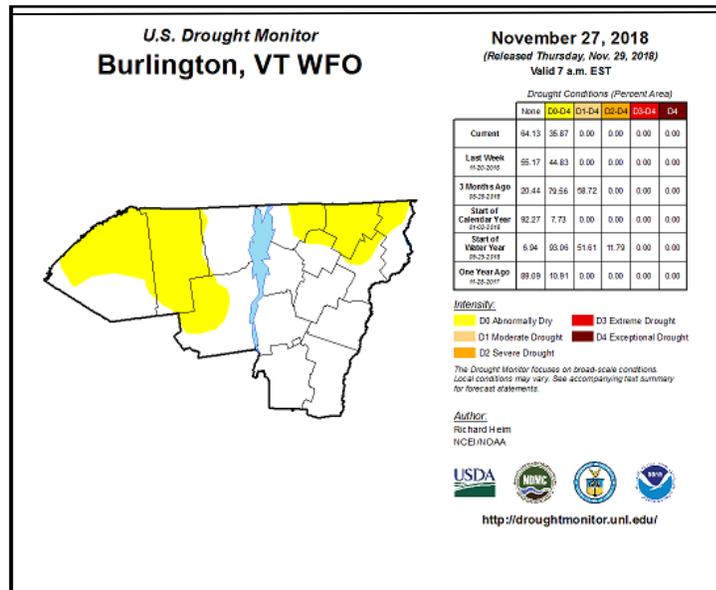
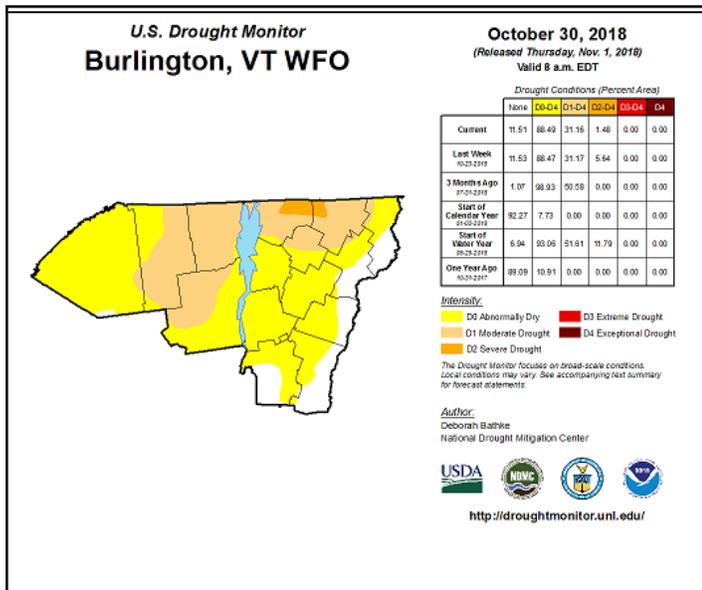


Figure 2: U.S. Drought Monitor maps from 30 October 2018 and 27 November 2018 showing marked improvement across the Burlington HSA as a result of heavier than normal precipitation during November 2018.

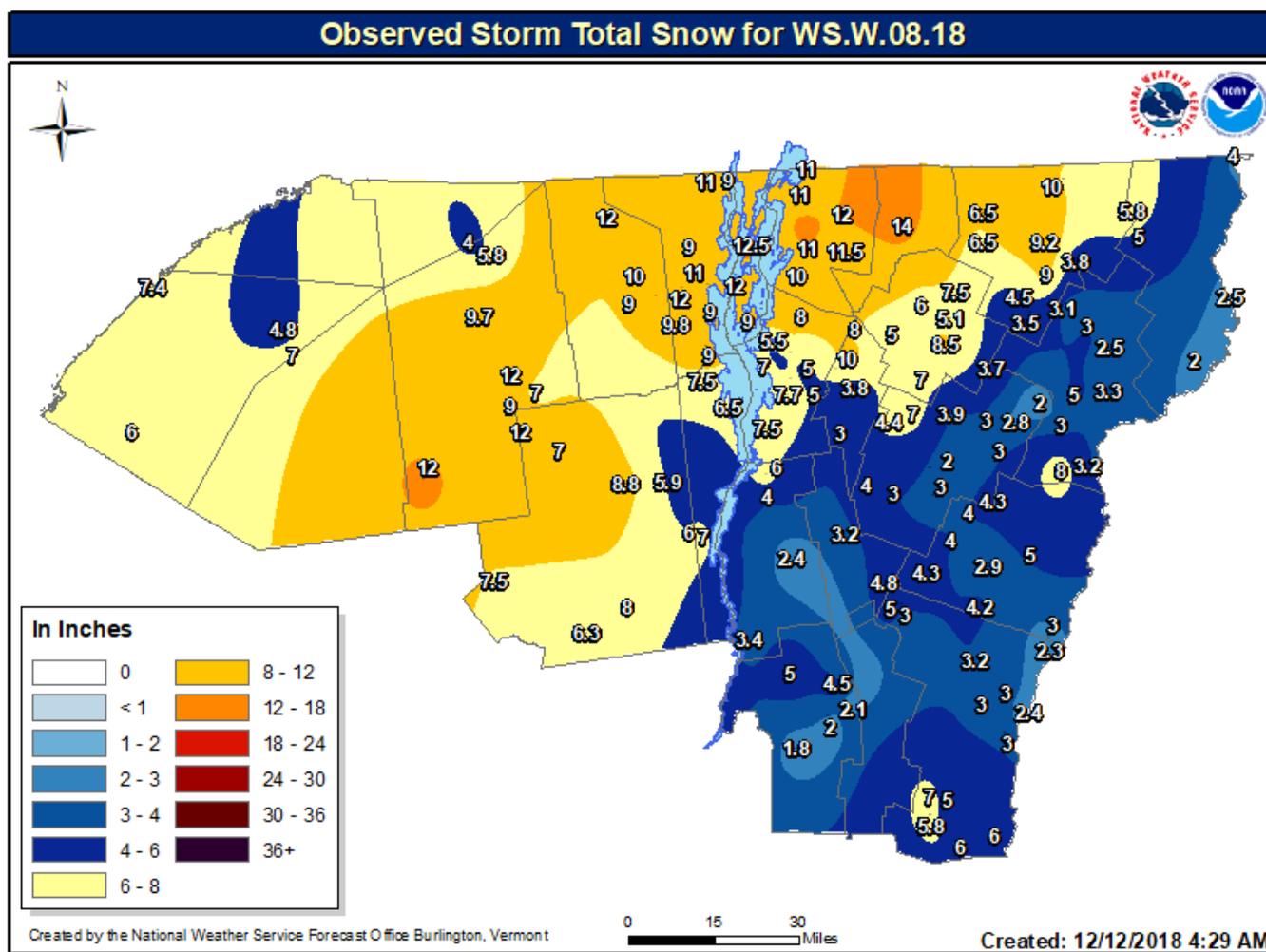


Figure 3: Observed snowfall from 15-16 November, 2018.

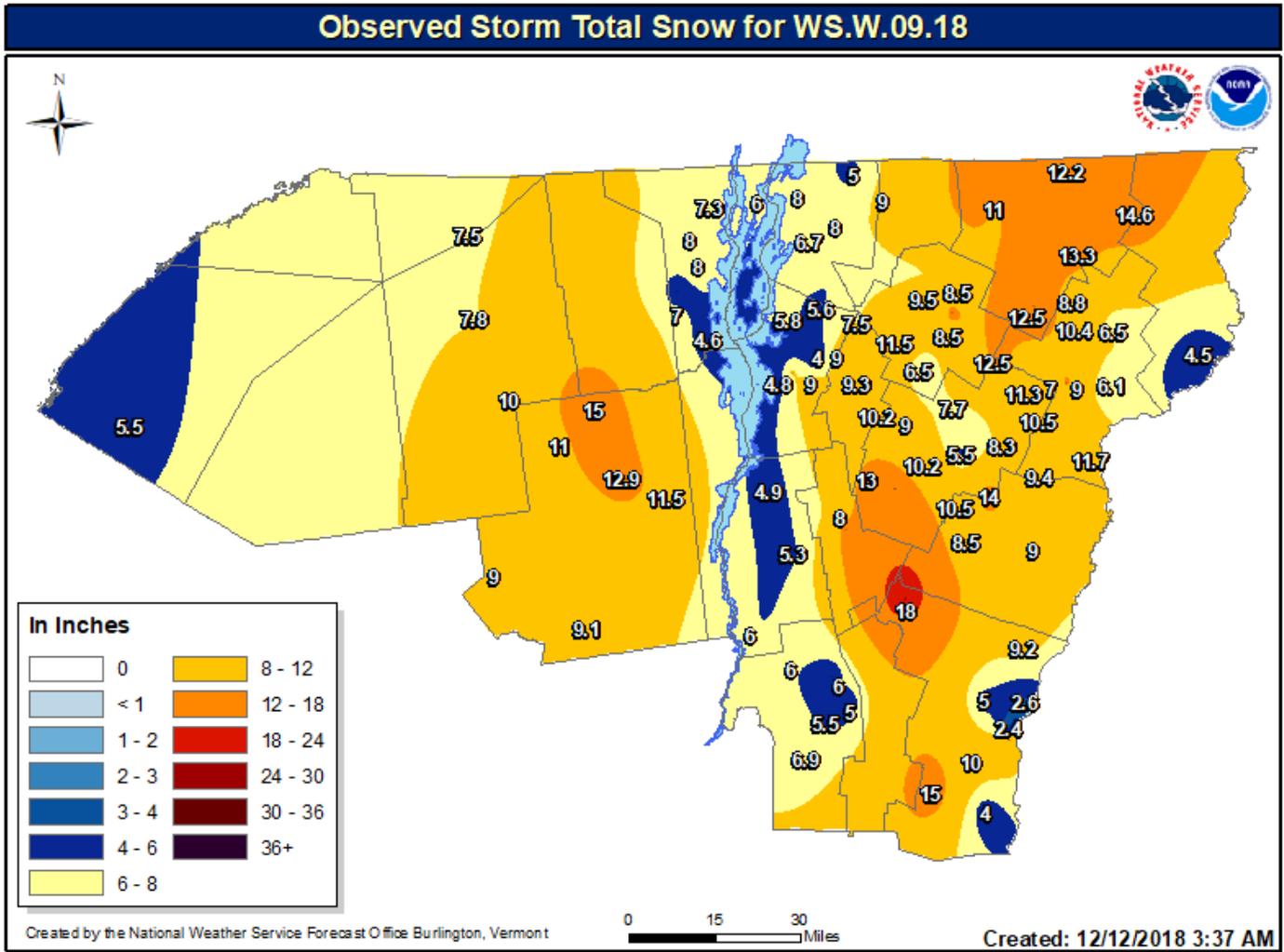


Figure 4: Observed snowfall from 26-27 November, 2018.