

Northeast River Forecast Center's March 30th Spring Flood Outlook



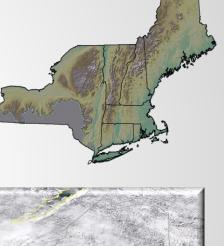
- Brought to you by:
- Edward Capone Service Coordination Hydrologist
 - Overview to Include:
- National Spring Outlook Map
- Precipitation Past...current....future
- Current...Streamflow/Groundwater/Soil Moisture/Lake Levels/Snow Conditions
- Short and Medium Range Met Forecasts / River Forecasts
- River Ice Conditions
- NERFC Spring Outlook Graphic













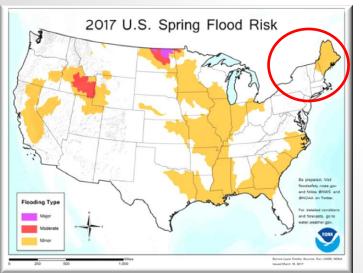


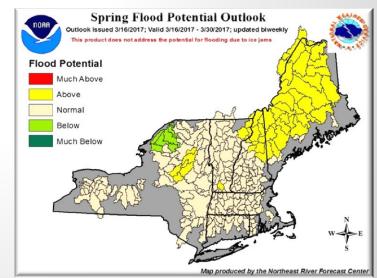


Main Features – Active Pattern March – cold with near normal precip



- March Coldest winter month ... NESIS storm
- California bowling balls ... that transition off-shore
- Controlled snowmelt into next week deep snowpack areas
- Possible significant "cold" systems ... every few days
- Transition to above normal temps -- above normal precipitation
- During the Spring Transition... watch "cut-off" season
- Later in the period...possibly a Gulf system ...no lack of precip





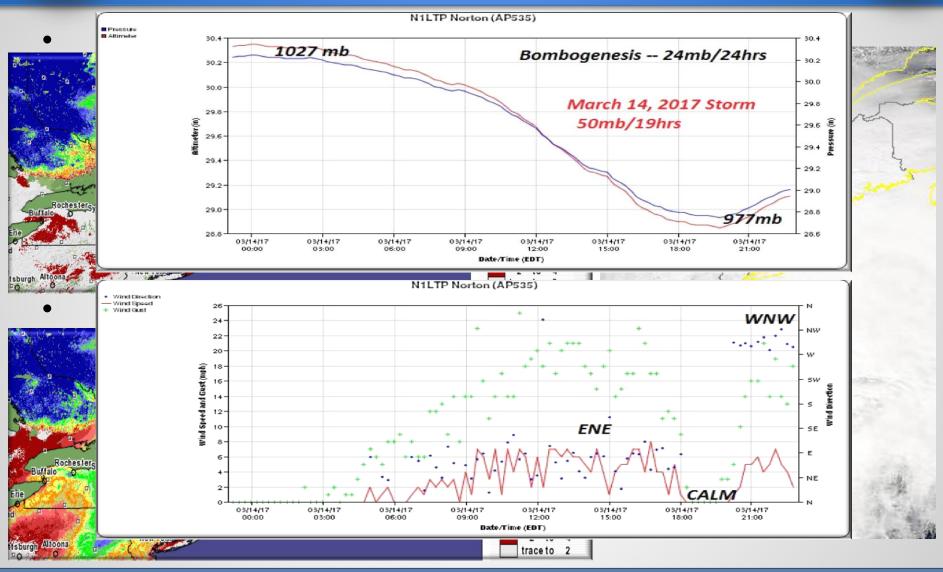
High Impact Event East Coast "bombogenesis"

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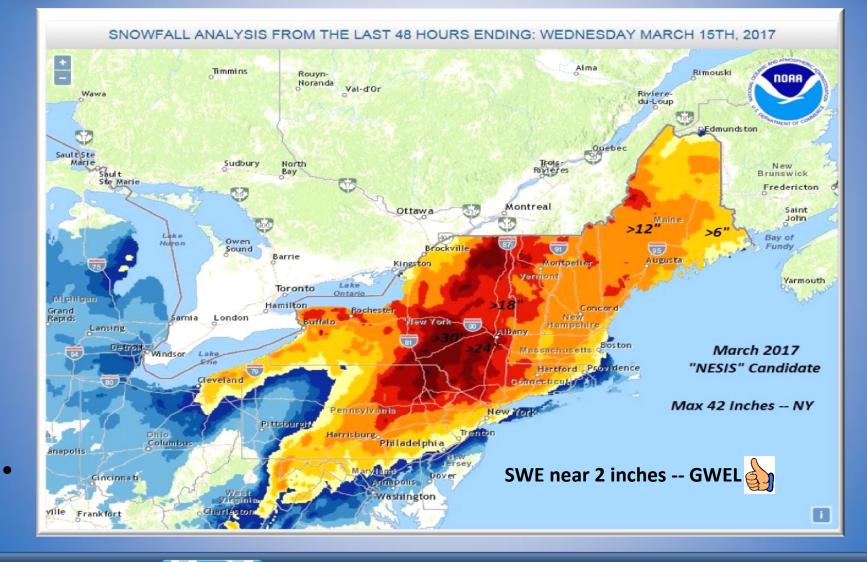






March 14th Snowstorm NESIS Candidate











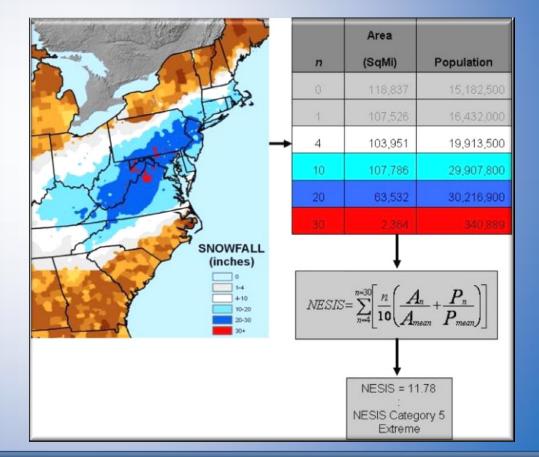
Northeast Snowfall Impact Scale

Building a Weather-Ready Nation

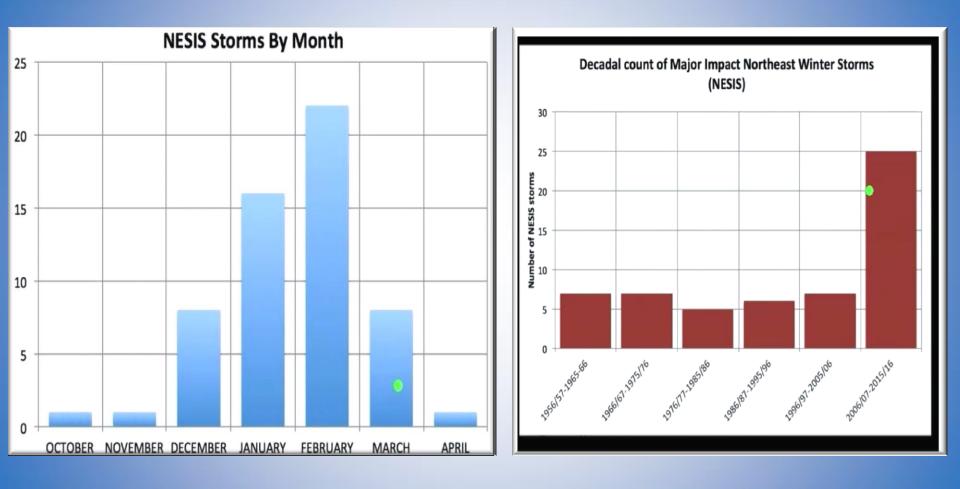
Depth—Area---Population Impacted NOAA...Kocin/Uccellini

Category	NESIS Value	Description		
1	1 — 2.499	Notable		
2	2.5 — 3.99	Significant		
3	4 — 5.99	Major		
4	6 — 9.99	Crippling		
5	10.0+	Extreme		

+ RANK	+ START	¢ END	+ NESIS	+ CATEGORY	DESCRIPTION	MAP
1	1993-03-12	1993-03-14	13.20	5	Extreme	view
2	1996-01-06	1996-01-08	11.78	5	Extreme	view
3	1960-03-02	1960-03-05	8.77	4	Crippling	view
4	2016-01-22	2016-01-24	7.66	4	Crippling	view
5	2003-02-15	2003-02-18	7.50	4	Crippling	view
6	1961-02-02	1961-02-05	7.06	4	Crippling	view
7	1964-01-11	1964-01-14	6.91	4	Crippling	view
8	2005-01-21	2005-01-24	6.80	4	Crippling	view
9	1978-01-19	1978-01-21	6.53	4	Crippling	view
10	1969-12-25	1969-12-28	6.29	4	Crippling	view
11	1983-02-10	1983-02-12	6.25	4	Crippling	view
12	1958-02-14	1958-02-17	6.25	4	Crippling	view
13	1966-01-29	1966-01-31	5.93	3	Major	view
14	1978-02-05	1978-02-07	5.78	3	Major	view



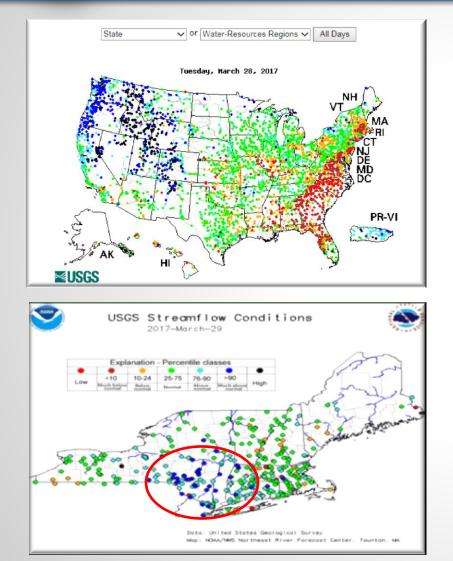


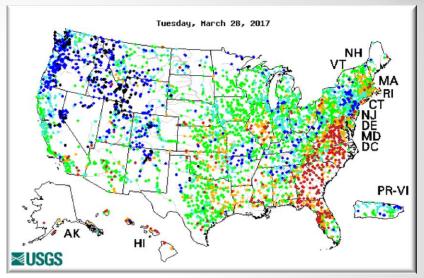


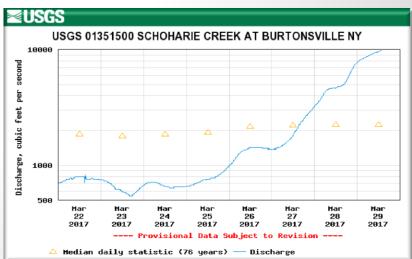


USGS Streamflow Conditions 7-day average -- Current







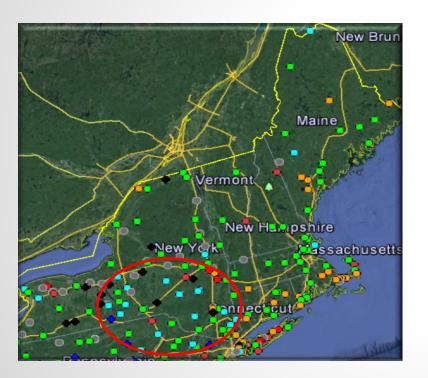




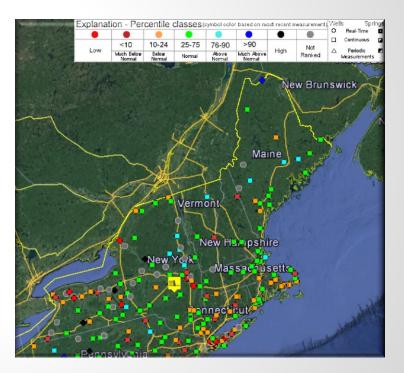
USGS Groundwater Conditions Recovering from drought??



Now



2 weeks ago



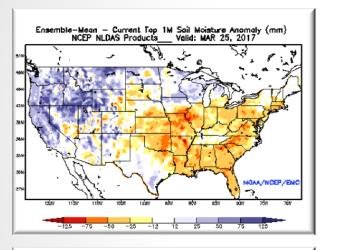


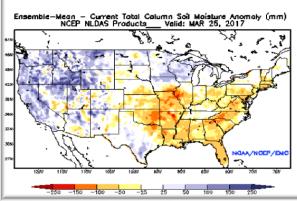


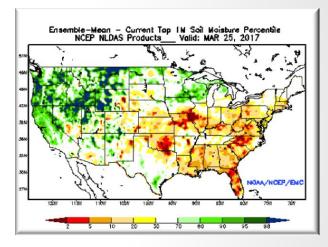
Soil Moisture Current Conditions Departures and Percentiles

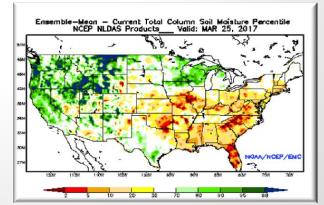


The NLDAS experimental drought monitor is derived from near real-time soil moisture output from both the NASA MOSAIC and NCEP Noah land surface models. The anomalies and percentiles are based on a 28 year climatology (1980 - 2007). Two separate climatology files are used; one for the calculation of anomalies, and one for the calculation of percentiles. The anomaly climatology file contains 1 soil moisture value per day (daily average over 28 years) for each gridbox. The percentile climatology file contains 140 soil moisture values per day (5 for each year) for each gridbox.













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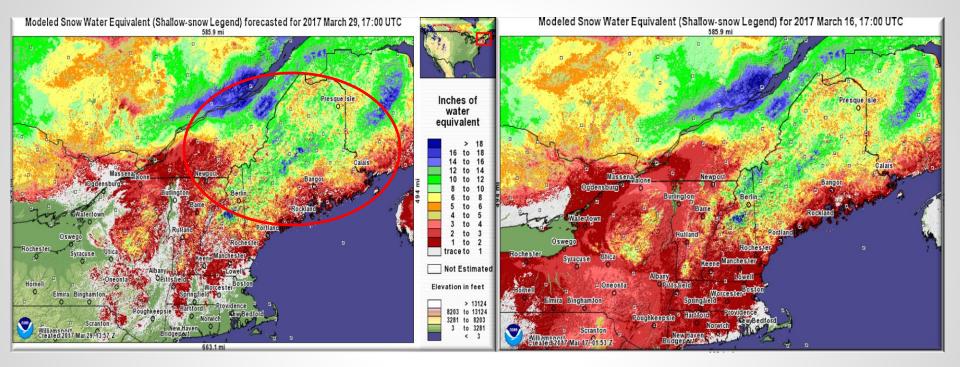
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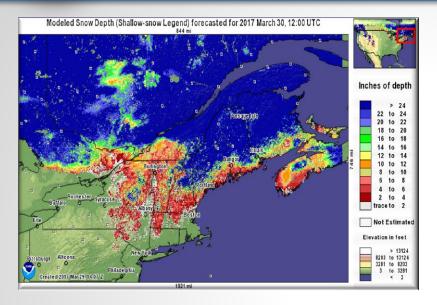
2 weeks ago

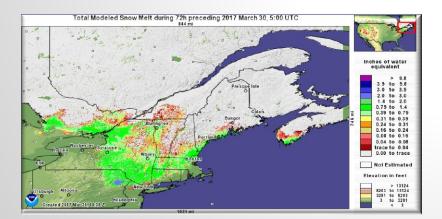


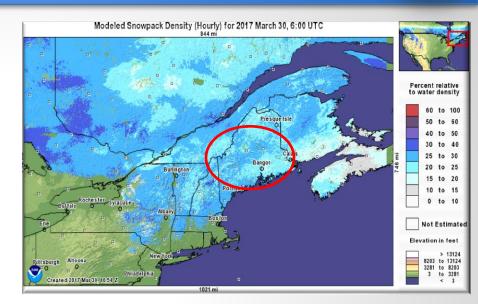


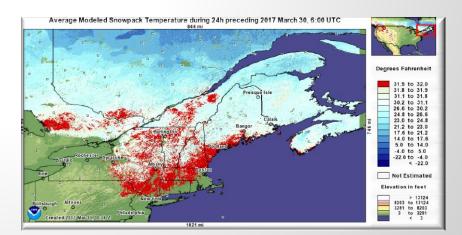
Snowpack Conditions







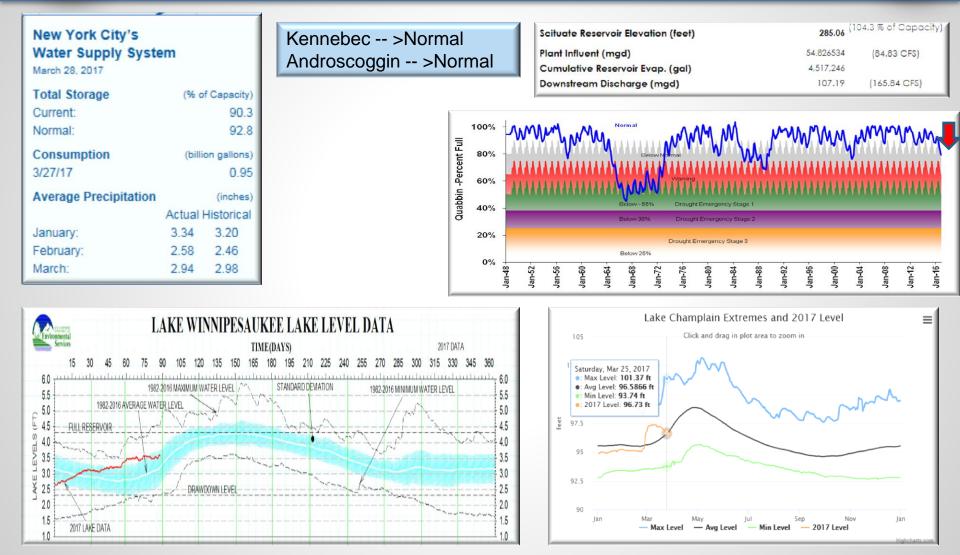






Water Supply/Lake Levels Near to Above Normal

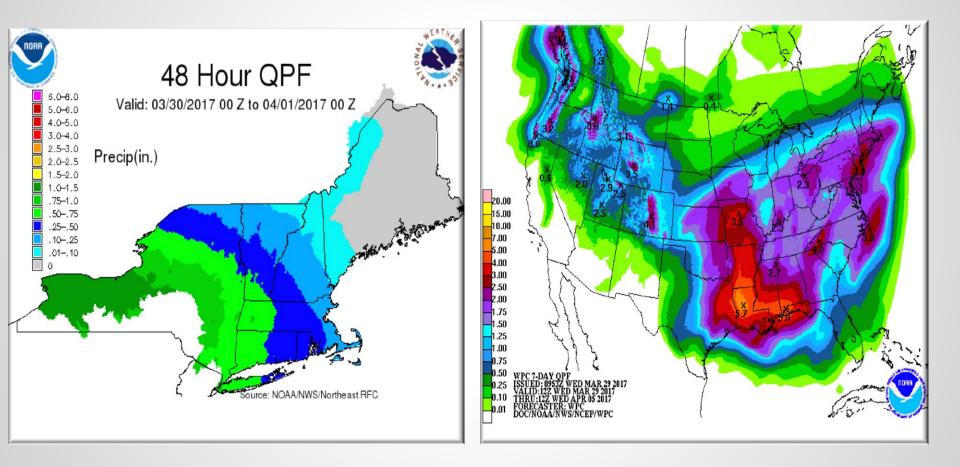






Precipitation Forecast 2-Day and 7-Day

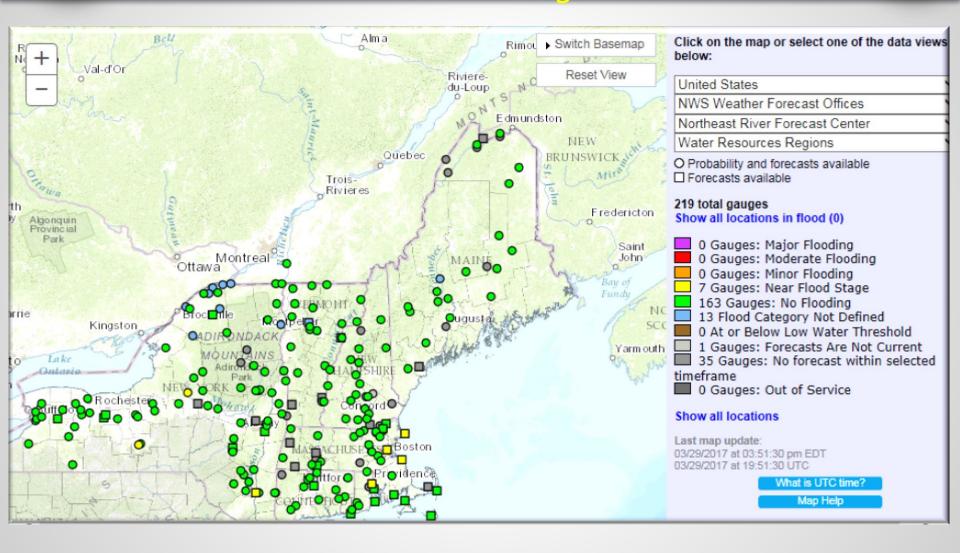






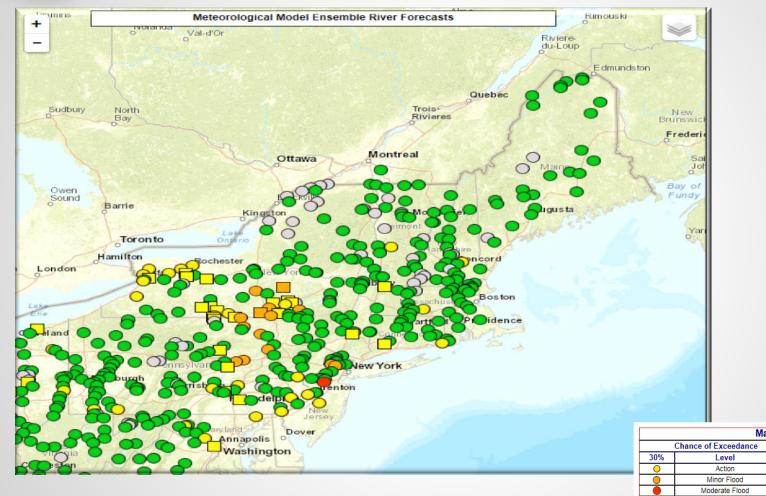
NERFC 72-Hr River Forecast No Flooding











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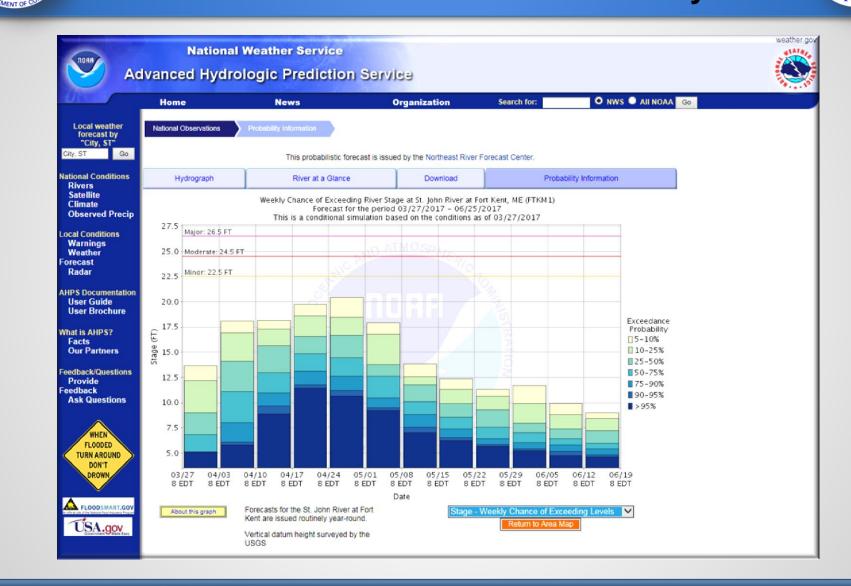
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AHPS – Advanced Hydrologic Prediction Service Fort Kent – Exceedance Probability

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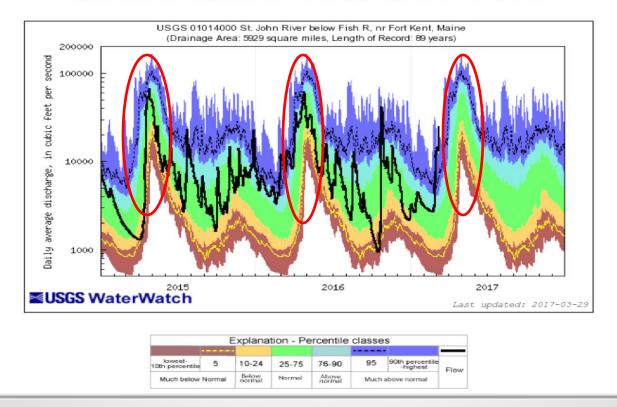
Fort Kent Maine – Saint John River 89 Year Flow Duration Graphic



USGS Streamflow Duration Hydrograph Builder

Site Number	01014000	Year	2017 💙	No. of years	: 3 ¥	Flow:	Daily 🗸	cfs 🗸	GO
5th and 95th p	ercentiles: Lin	e Y	Overlay &	Year Type:	Calendar)	Year 🗸	Output:	Hydrograph	~

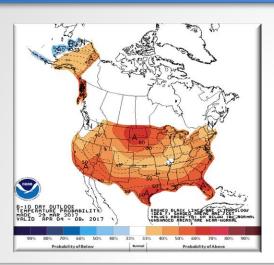
For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.









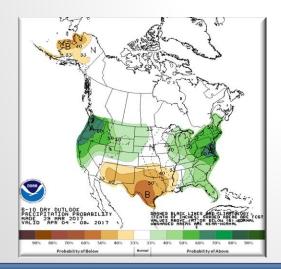


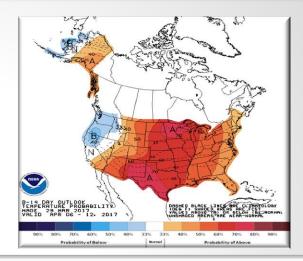
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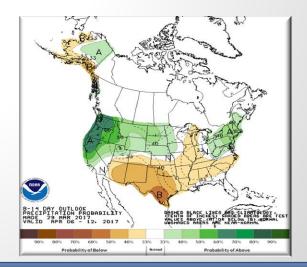
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6 to 10 day outlooks



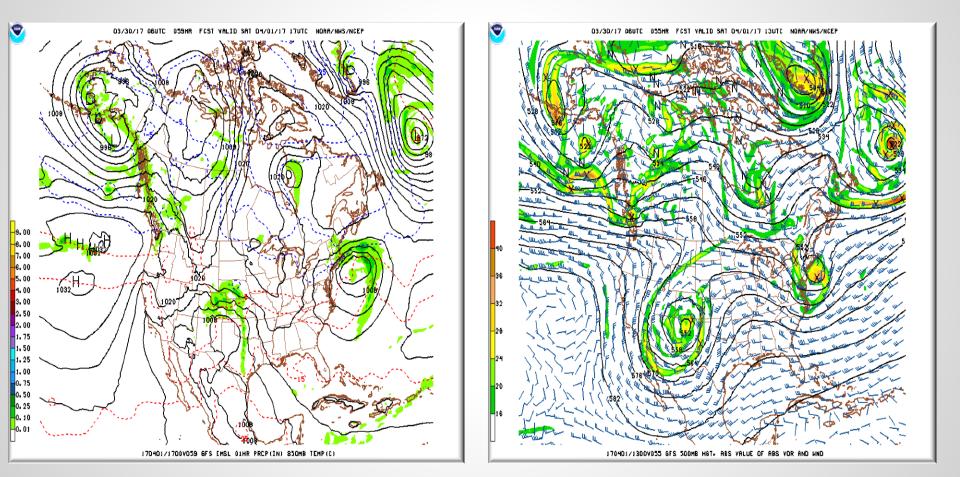


8 to 14 day outlooks





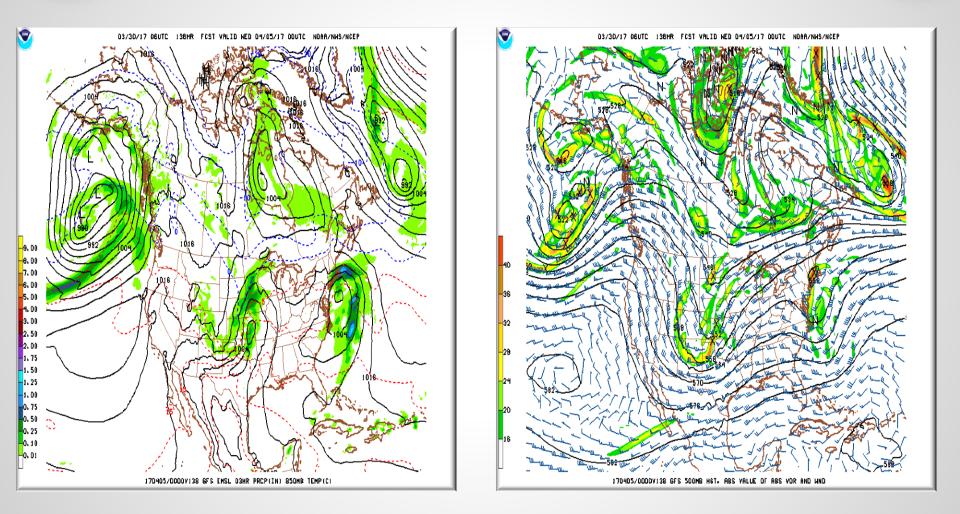




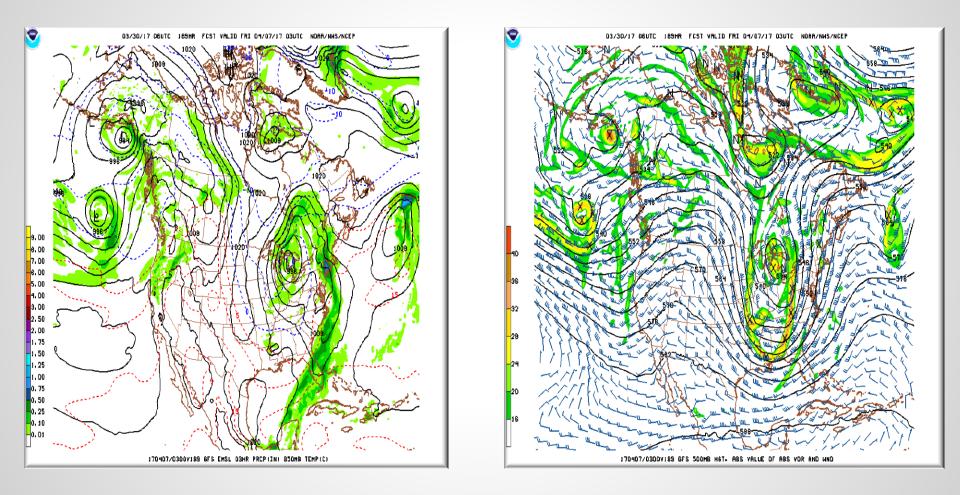


Surface/500 mb – 4/5 Another "Cold" storm





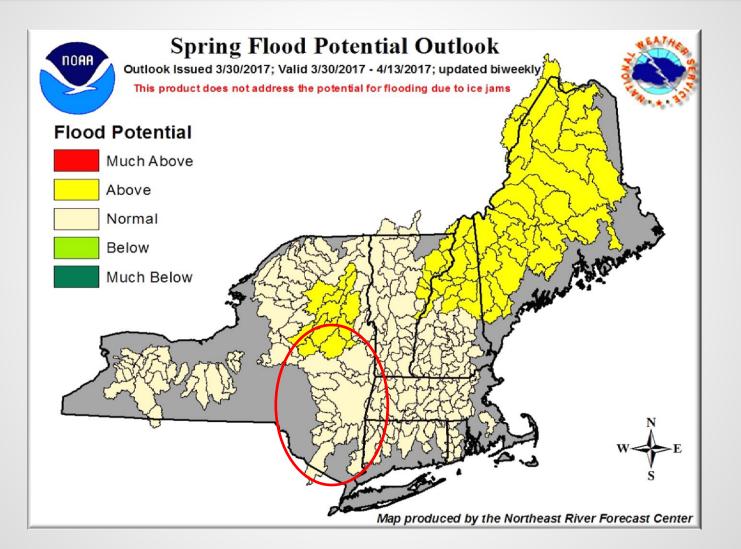






NERFC Winter Outlook March 30th Flood Potential -- Valid until Apr 13th



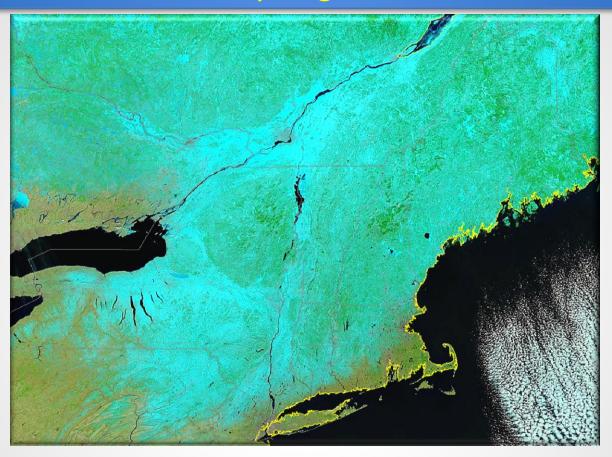






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