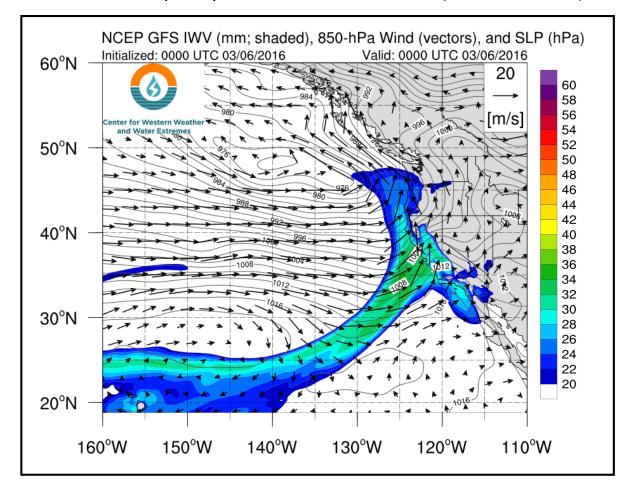
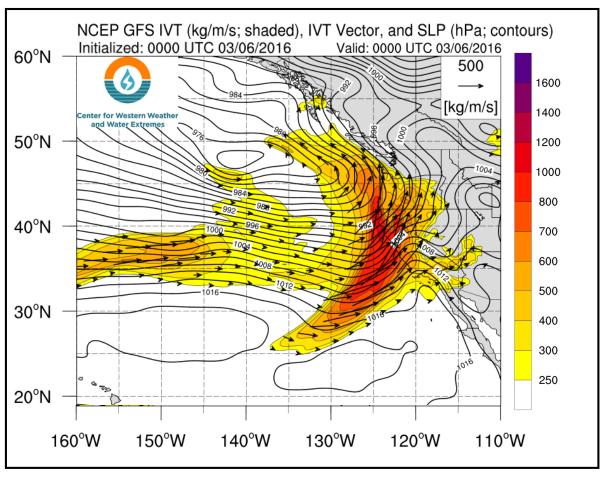
CW3E AR Update – Post-Event Summary: 5-6 March 2016



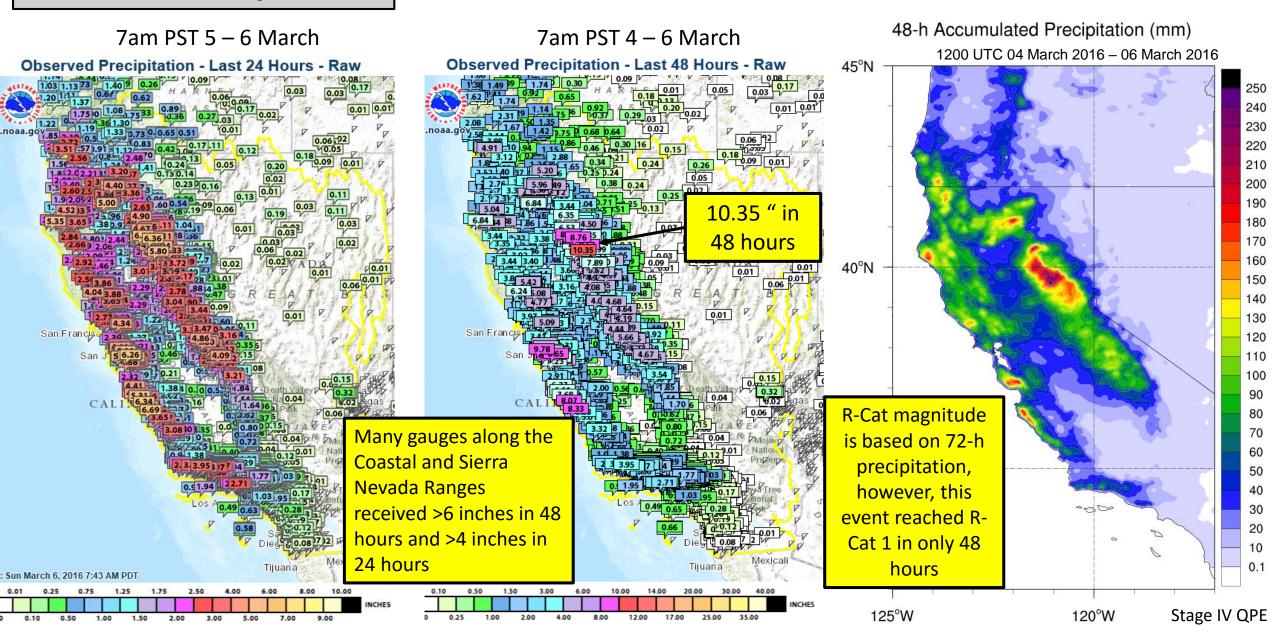
Moderate strength Atmospheric River made landfall over northern California on 5-6 March 2016

- Impacts throughout Northern California
- 72-hr precipitation over 10 inches (R-Cat 1 event)

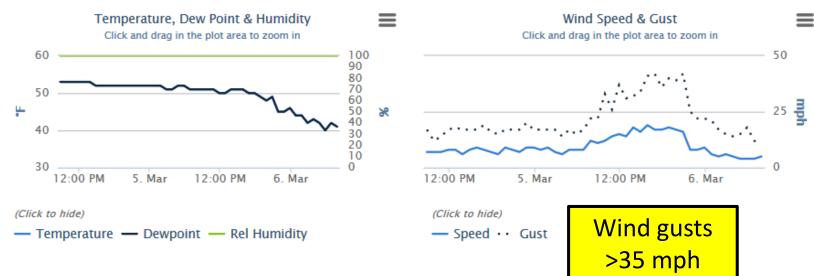




Observed Precipitation



Ben Lomond, Ca Observations



Weather Conditions for:

BEN LOMOND, CA. BNDC1 (RAWS)

Elev: 2598 ft; Latitude: 37.130936; Longitude: -122.172606

Current time: Sun, 06 Mar 8:38 am PST

Most Recent Observation: Sun, 06 Mar 7:50 am

Explanation of Wx and Clouds columns.

Time	Temp.	Dew	Relative	Wind	Wind	Fuel	Fuel	Solar	Solar	Precip	Precip	Precip	Precip	Quality
		Point	Humidity	Direction	Speed	Temp	Moisture	Radiation	Pct	Accumulated	1 hour	6 hour	24 hour	Control
(PST)	(f)	(f)	(%)		(mph)	(f)	(%)	(W/m*m)	of psbl	(inches)	(inches)	(inches)	(inches)	
06 Mar 7:50 am	41	41	100	WSW	5G11	41	27	36	16%	50.13		0.08	5.52	OK
06 Mar 6:50 am	42	42	100	W	4G12	42	27	8		50.13		0.08	5.65	OK
06 Mar 5:50 am	40	40	100	W	4G18	40	27	0		50.13	0.02	0.18	5.71	OK
06 Mar 4:50 am	42	42	100	W	4G15	42	27	0		50.11		0.31	5.73	OK
06 Mar 3:50 am	43	43	100	WSW	5G14	43	27	0		50.11		0.39	5.77	OK

1 Hour Precipitation
48-hour total: 8.05

>0.75

>0.5 in/hr

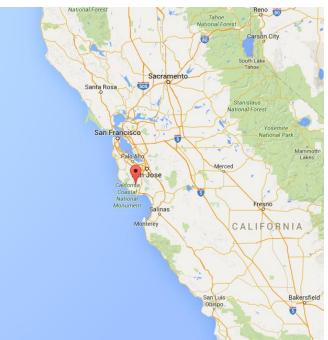
0.5

0.25

12:00 PM 5. Mar 12:00 PM 6. Mar

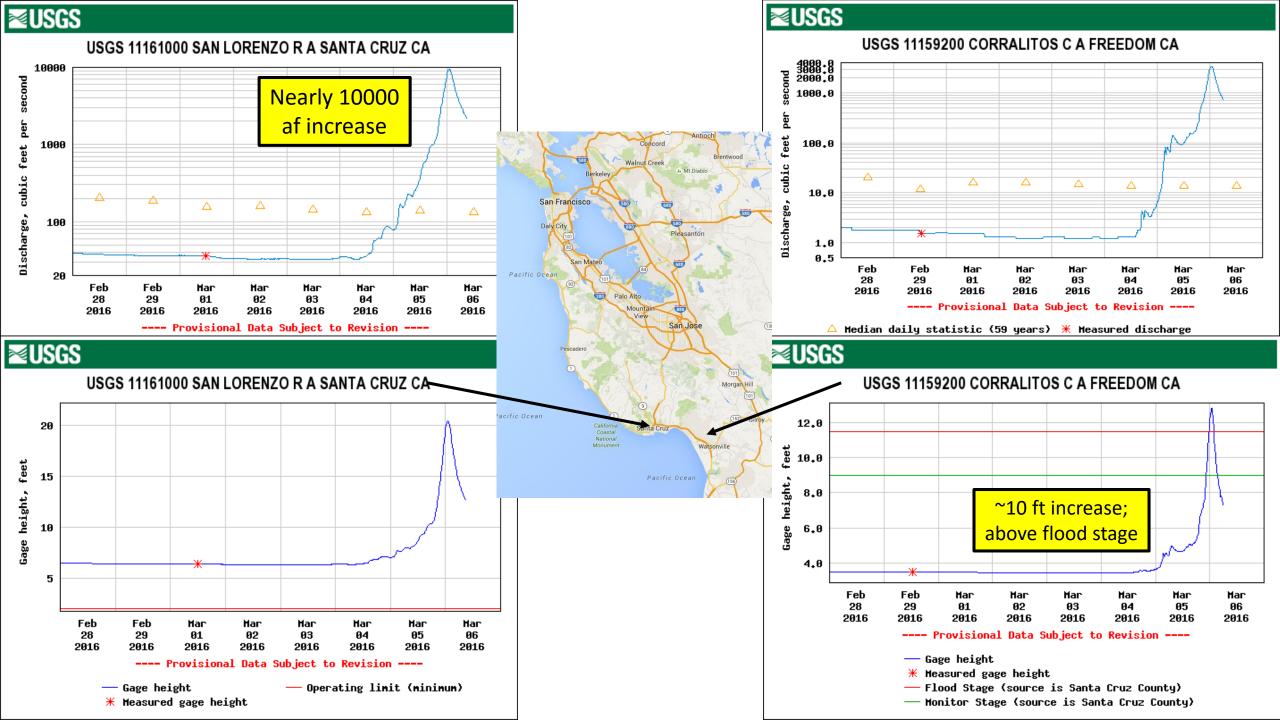
(Click to hide)

1 Hour Precip

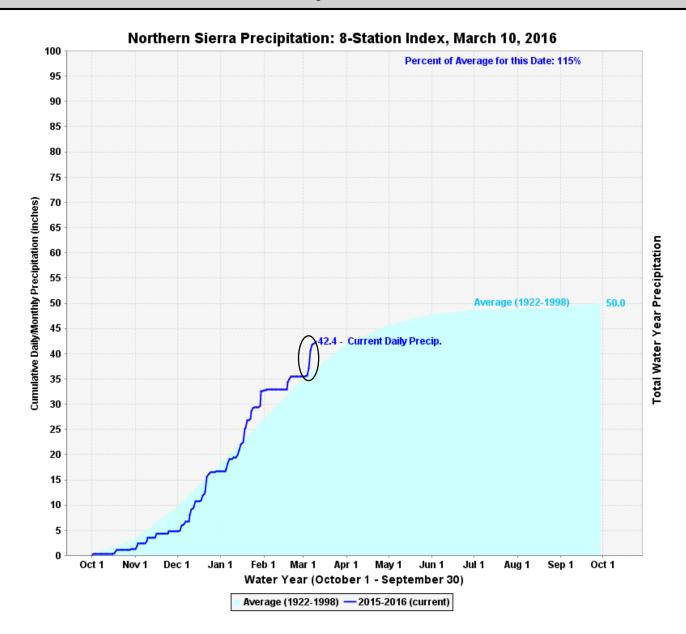


>5 inches

in 24 hours



Northern Sierra Precipitation: 8-Station Index

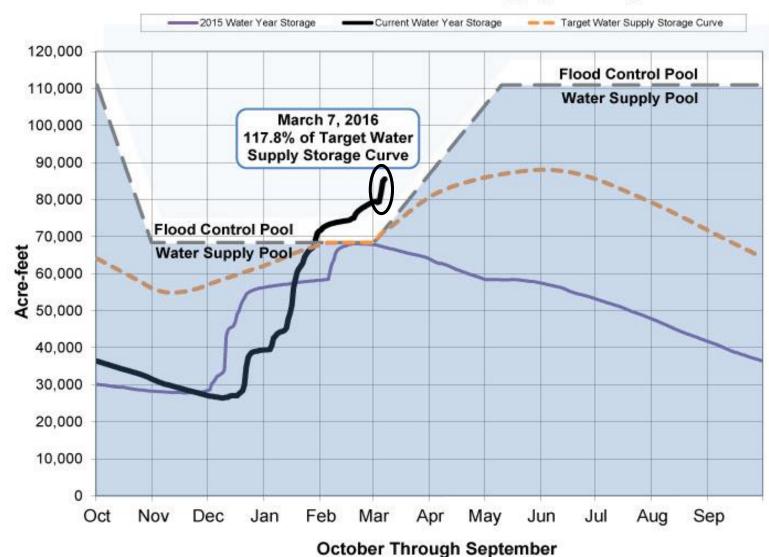


~7.5 inches of precipitation measured by the 8-Station Index

Increased water-year-to-date accumulation from average to ~115% of average

Lake Mendocino Storage

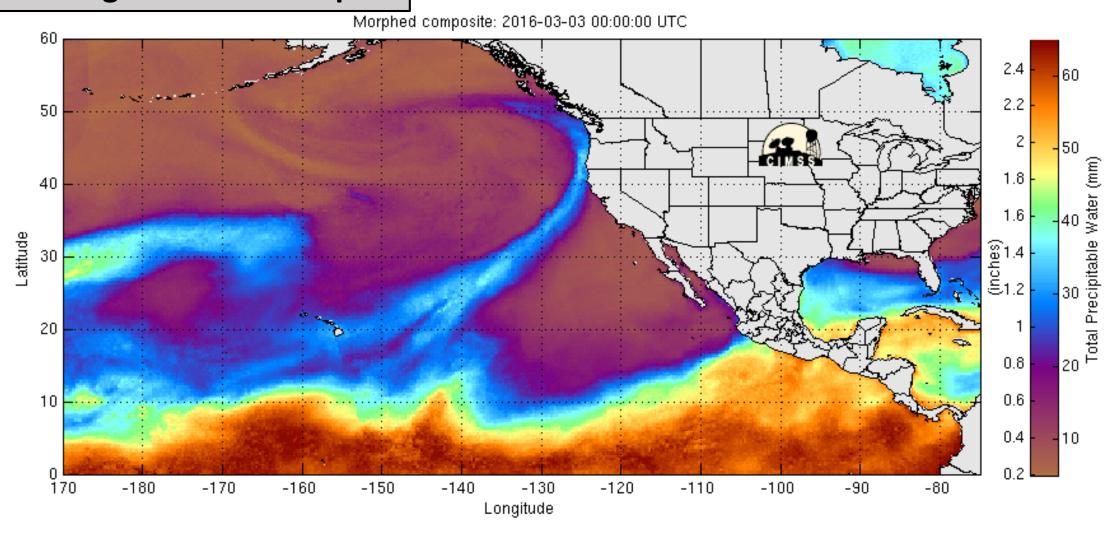
Lake Mendocino Water Supply Storage



Increase in storage of ~8000 af

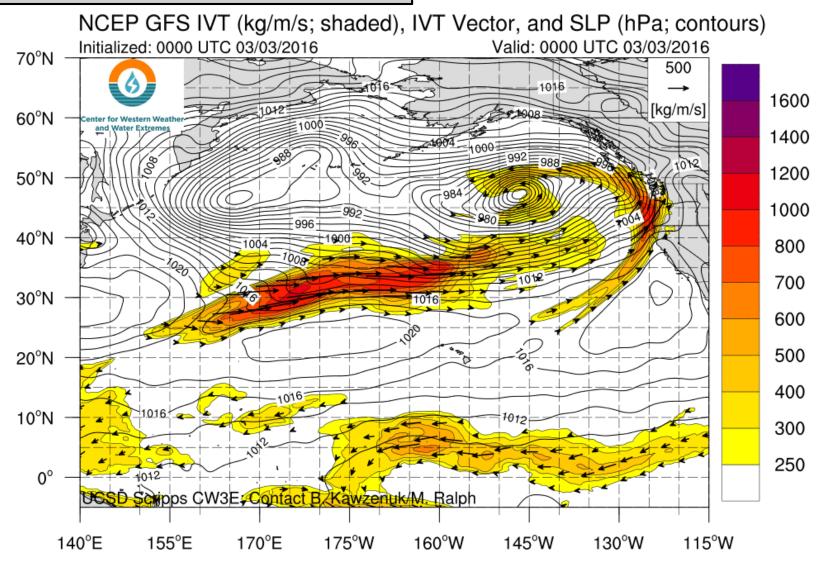
Storage remains above the Target Water Supply Storage Curve

SSMI Integrated Water Vapor



AR developed over the Central North Pacific and made landfall over Northern California AR entrained moisture from previous decaying AR off California coast prior to landfall

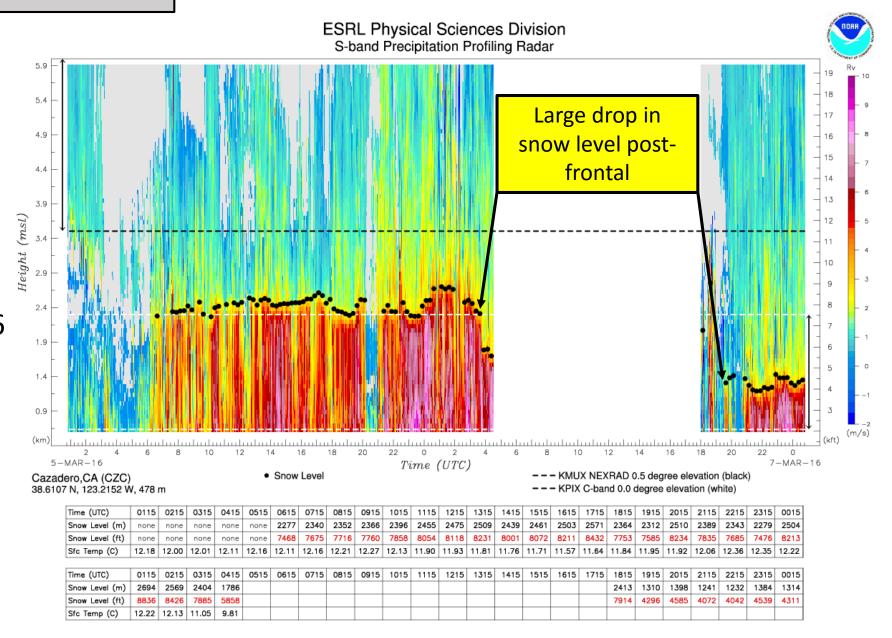
GFS Analysis of Integrated Water Vapor



AR developed over the Central North Pacific and made landfall over Northern California AR entrained moisture from previous decaying AR off California coast prior to landfall

Cazadero, Ca Snow Level Radar

Heavy bright band precipitation began ~0600 UTC 5 March 2016



Bodega Bay 0200 UTC Sounding

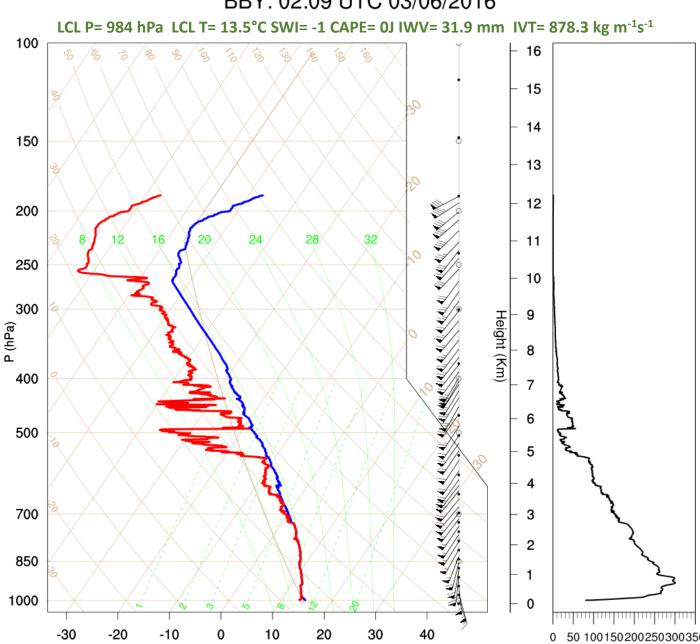
Saturated atmosphere up to ~550 hPa

• IWV = 31.9 mm IVT = 878.3 kg $m^{-1}s^{-1}$

 Winds >50 knots throughout the troposphere

 Majority of water vapor flux between 950–700 hPa

BBY: 02:09 UTC 03/06/2016



Water Vapor Flux (g/kg*m/s)

Temperature (C)

Event Summary

 A moderate strength Atmospheric River made landfall over Northern California during 5-6 March 2016

 Maximum 48-h precipitation of >10 inches occurred over the Sierra Nevada

 Widespread precipitation >6 inches occurred over the Coastal and Sierra Nevada Ranges

Several rivers reached above flood stage in Northern California