A brief summary of 07-10 April 2016 CA/NV cutoff low event

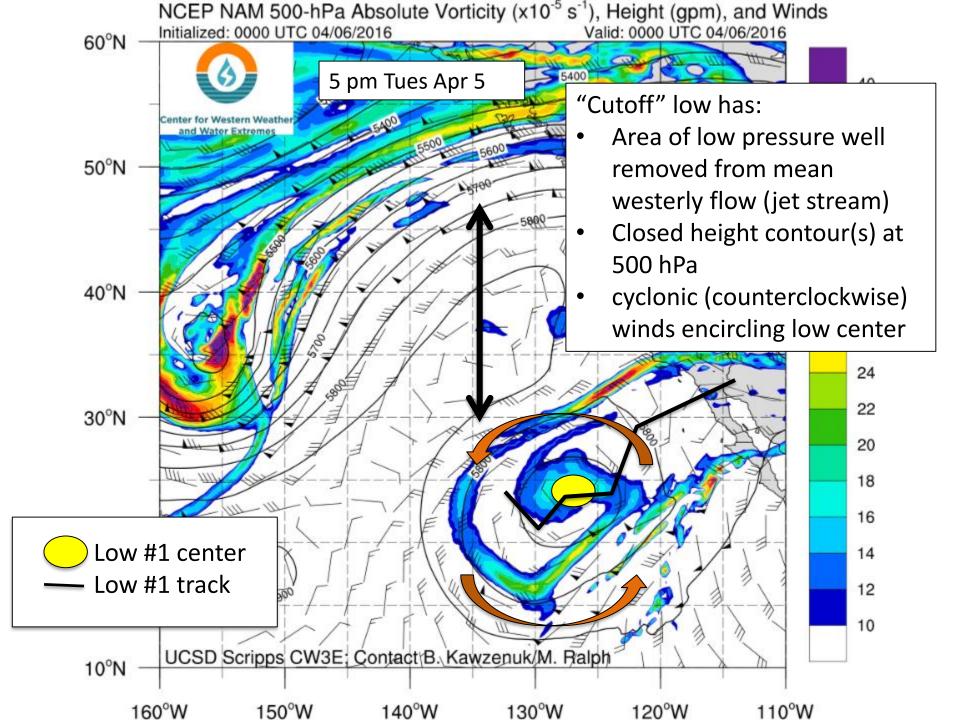
Nina Oakley; WRCC
Marty Ralph and Brian Kawzenuk; CW3E

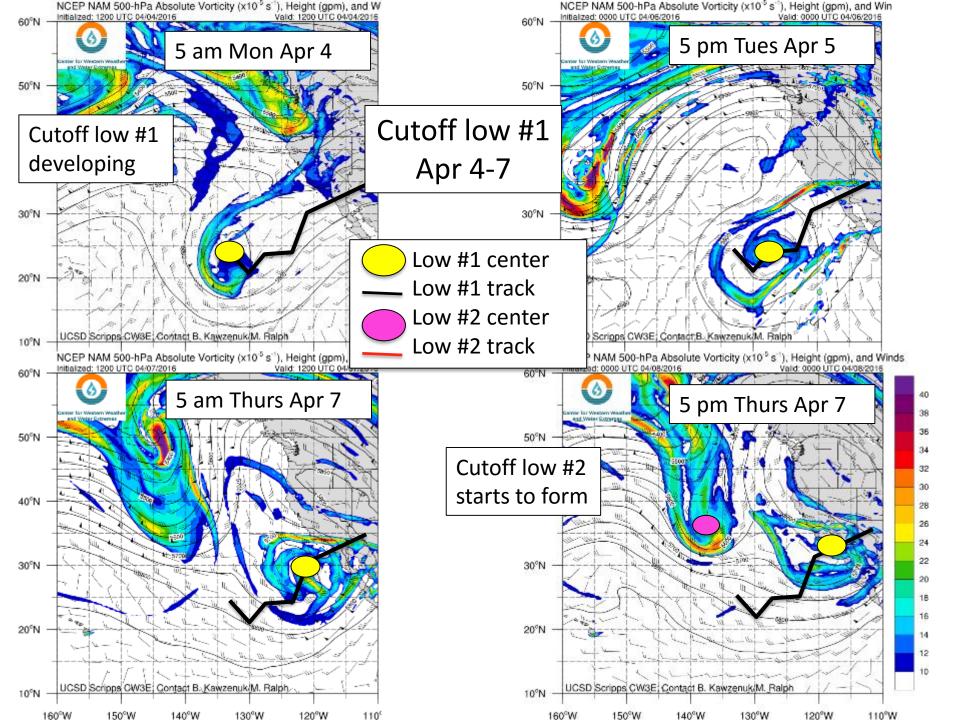


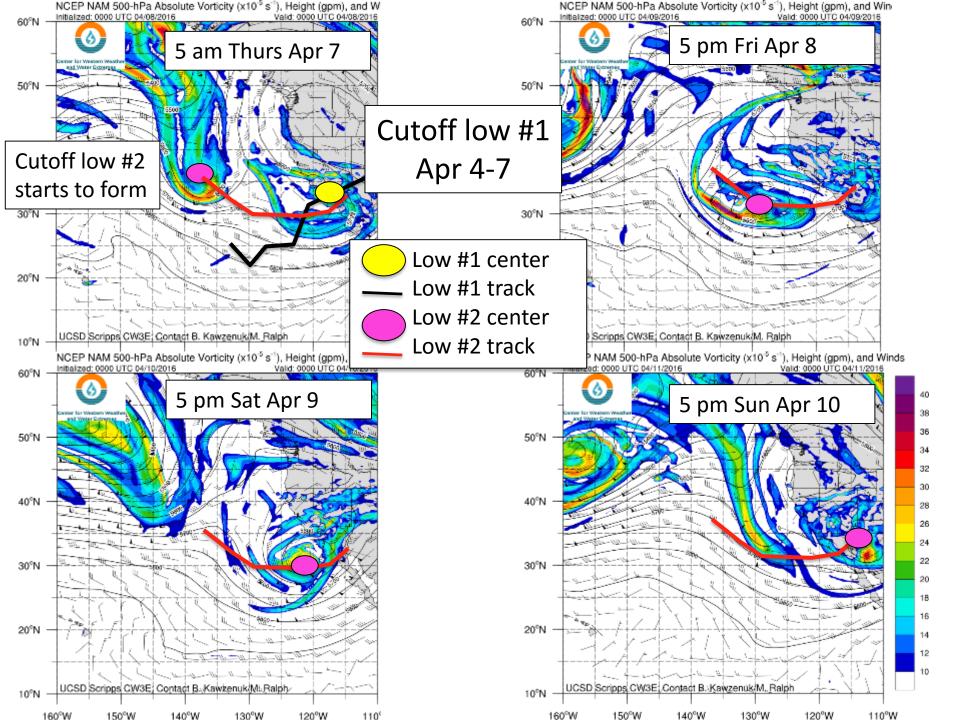
Reno NV April 9 2016 Photo: Ben Hatchett

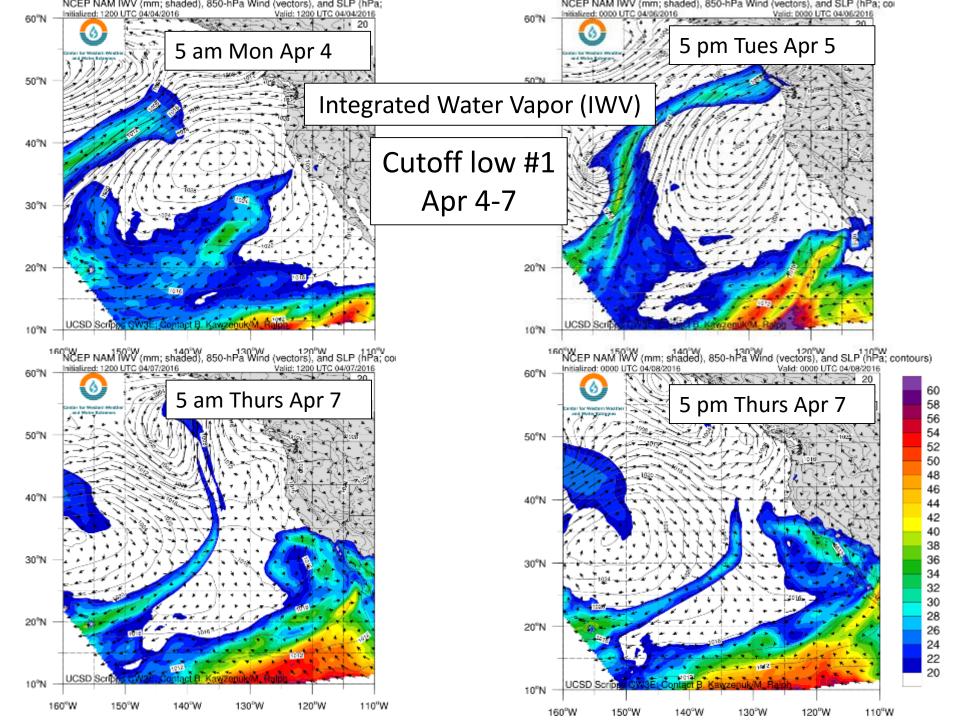
Summary

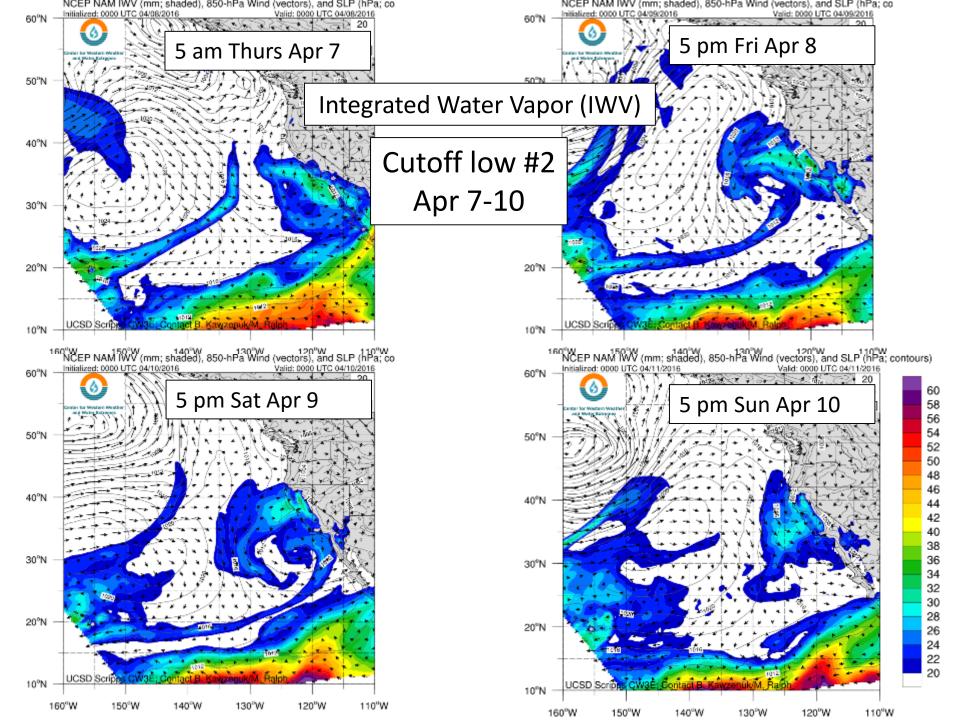
- 2 consecutive cutoff lows brought precipitation to CA, Great Basin, Las Vegas area
 - Low #2 more widespread impact than Low #1
 - 72 hr totals generally <1-3 in</p>
- Periods of heavy precipitation as areas of high vorticity circulated around low
- Subtropical moisture entrainment into low; does not reach atmospheric river criteria

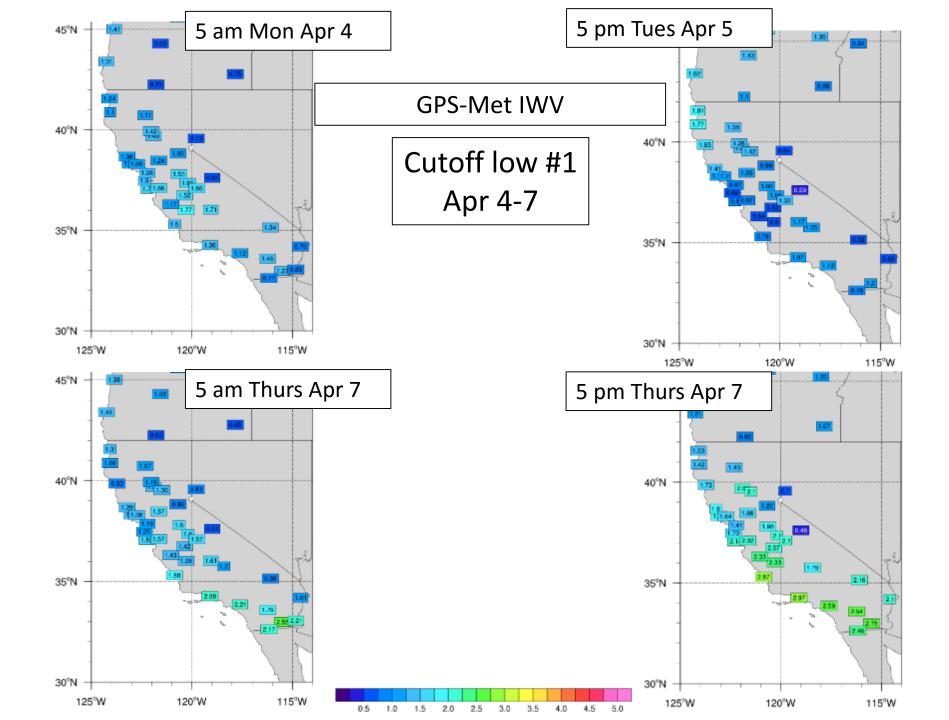


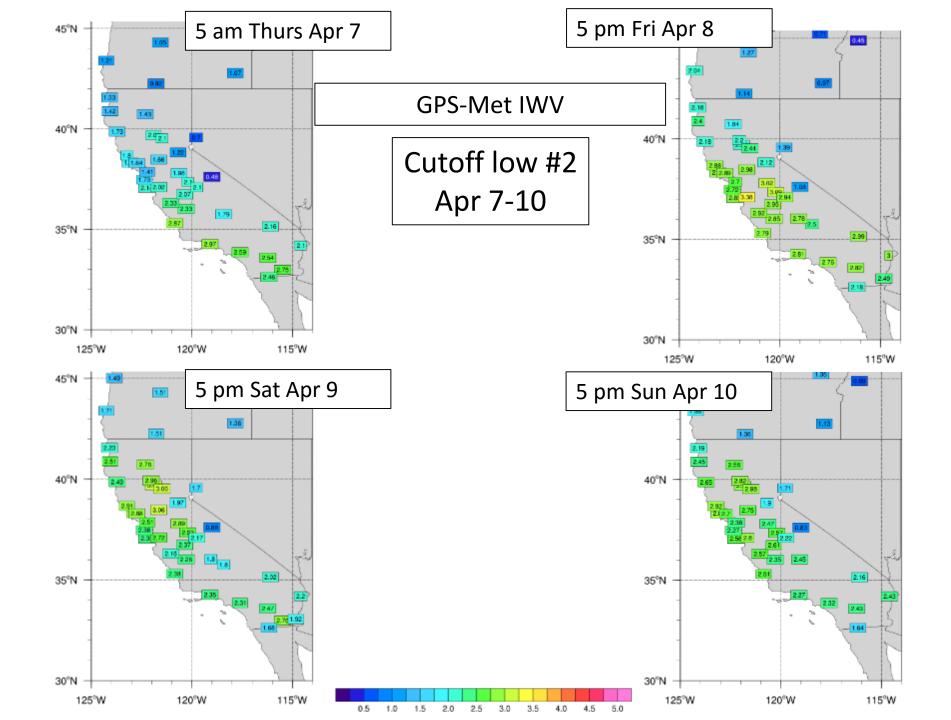


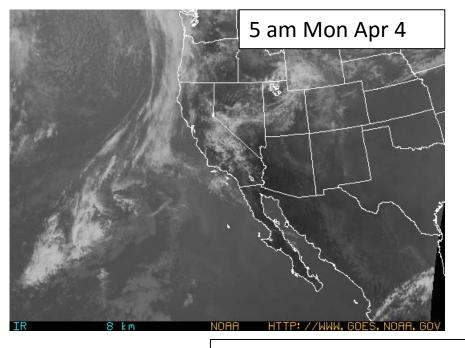


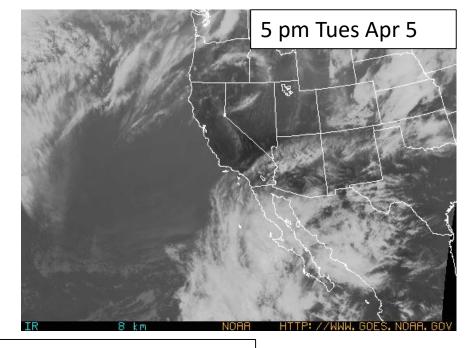




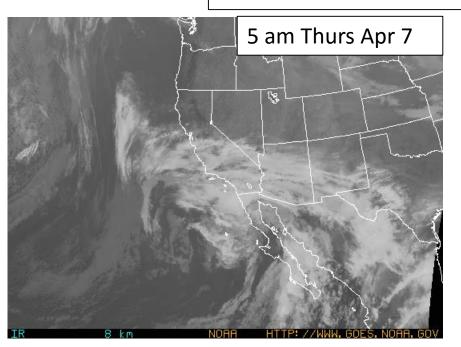


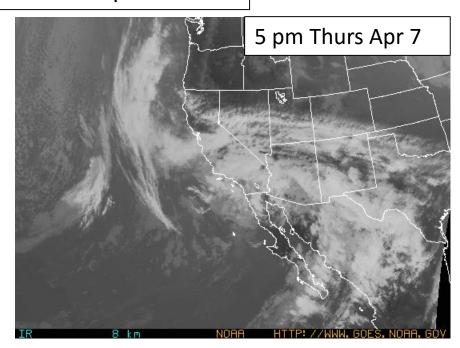


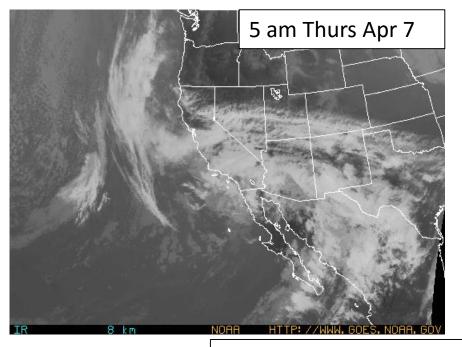


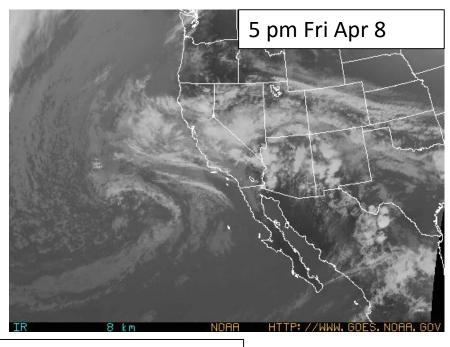


GOES-West IR: Cutoff low #1 Apr 4-7

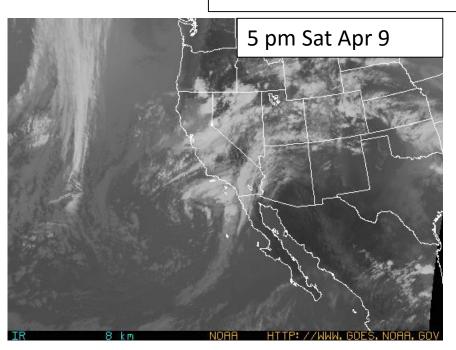




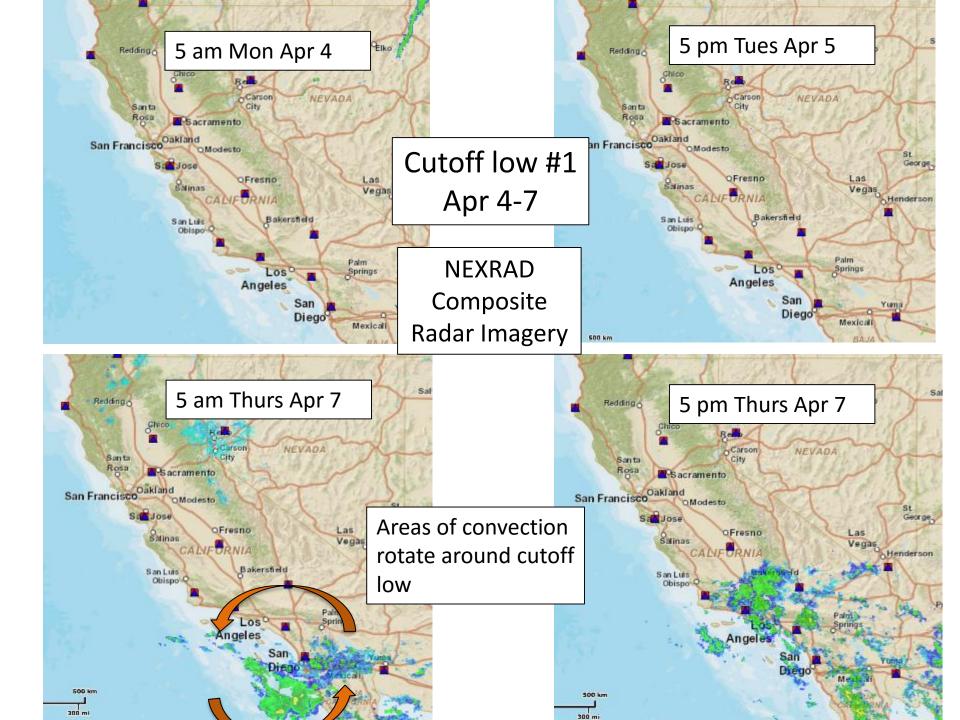


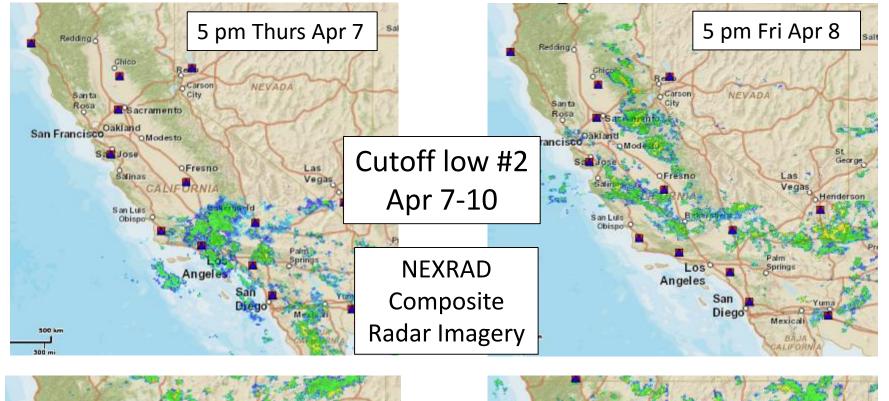


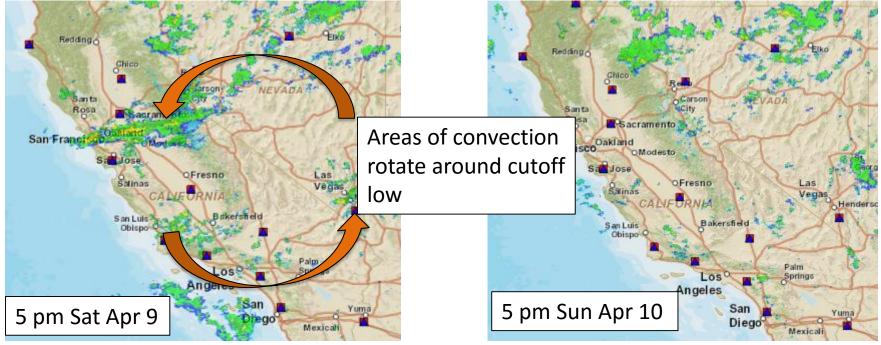
GOES-West IR: Cutoff low #2 Apr 7-10

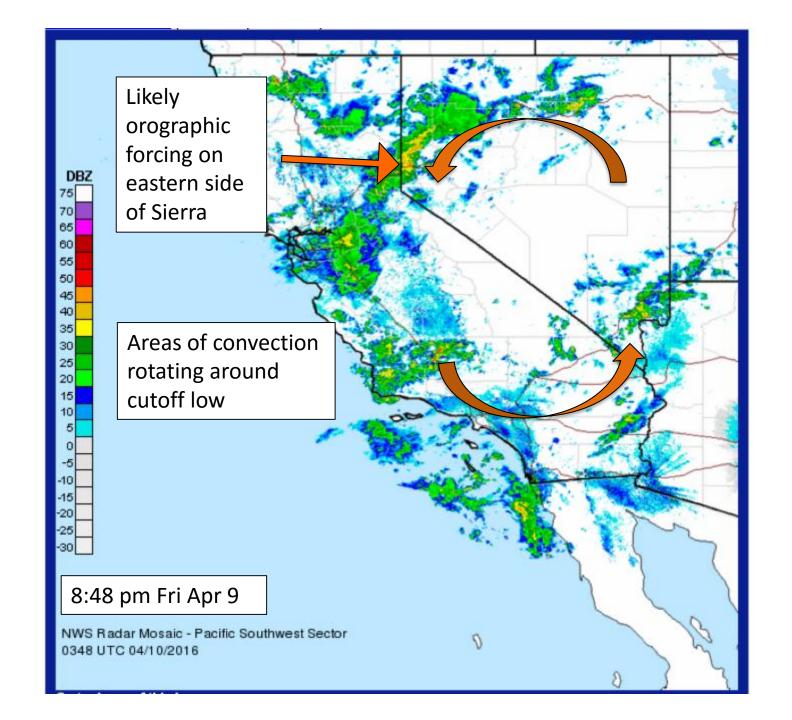


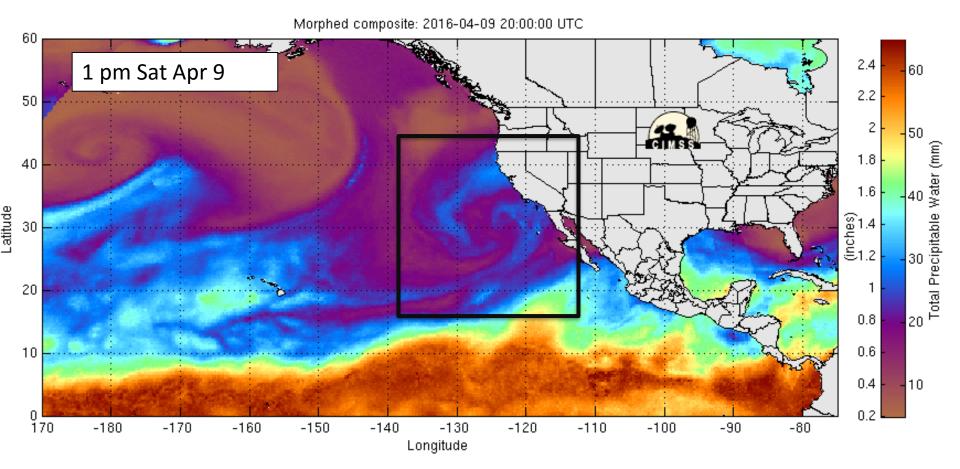




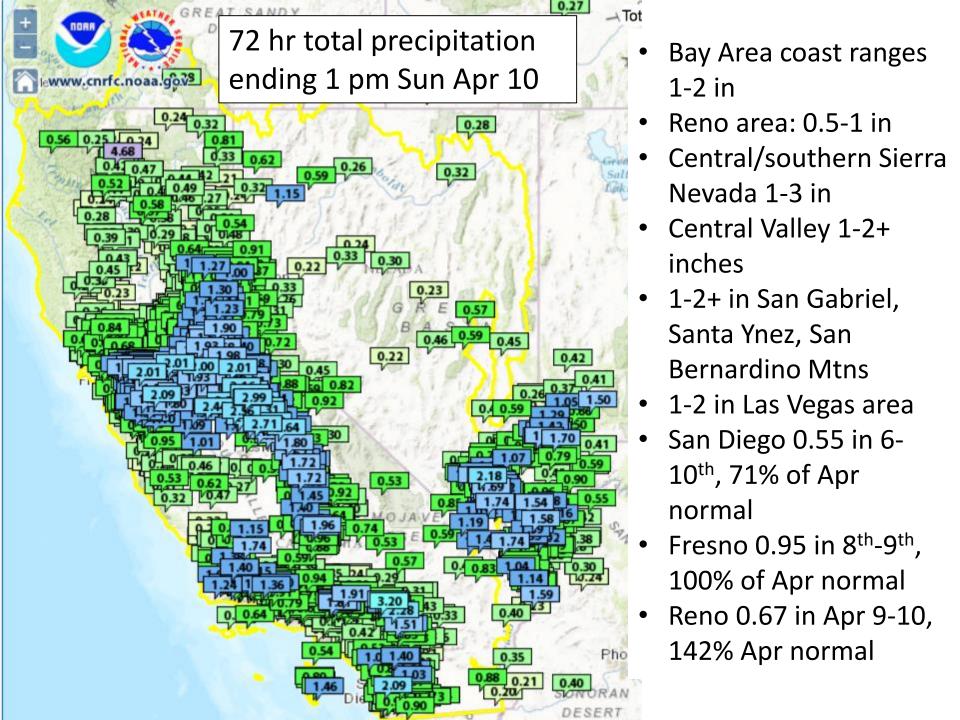








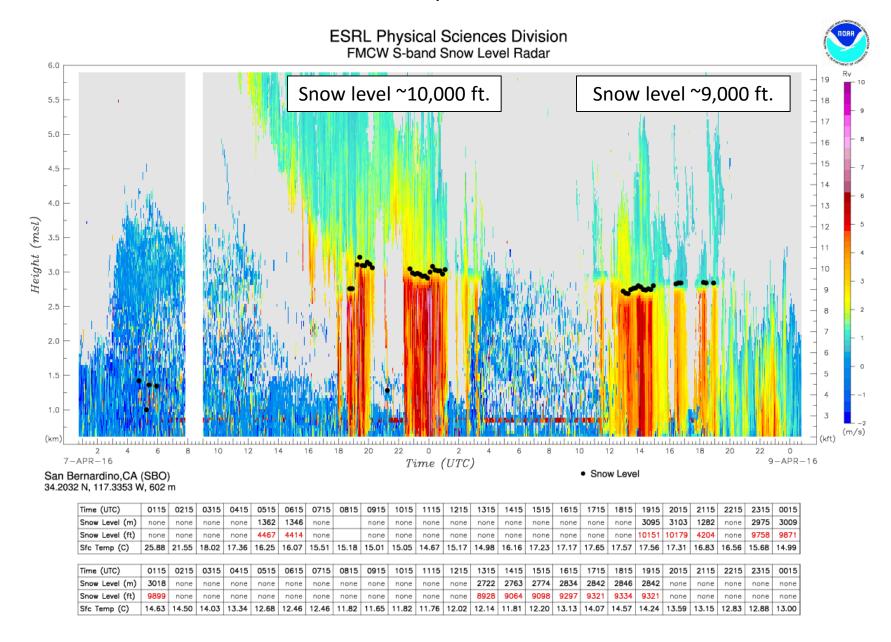
Well developed cutoff low is entraining moisture plume; moisture wrapping around low



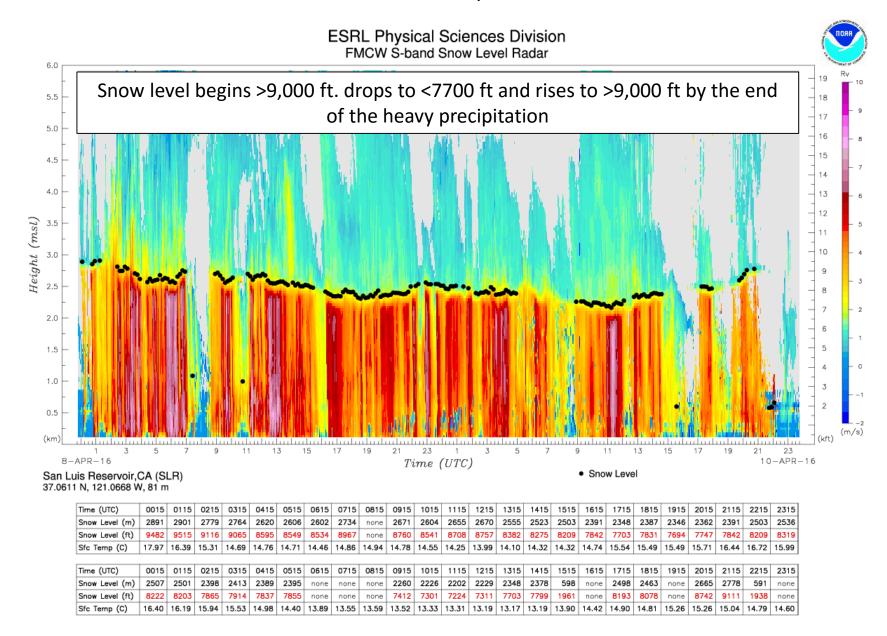
72 hour snowfall totals*	
Squaw Ski Area	2 in
Mt Rose Ski Area	2 in
Heavenly Ski Area	4-5 in
Kirkwood Ski Area	12 in
Mammoth Ski Area	13 in

^{*}As reported by each ski resort

Snow Level Radar: San Bernadino, CA



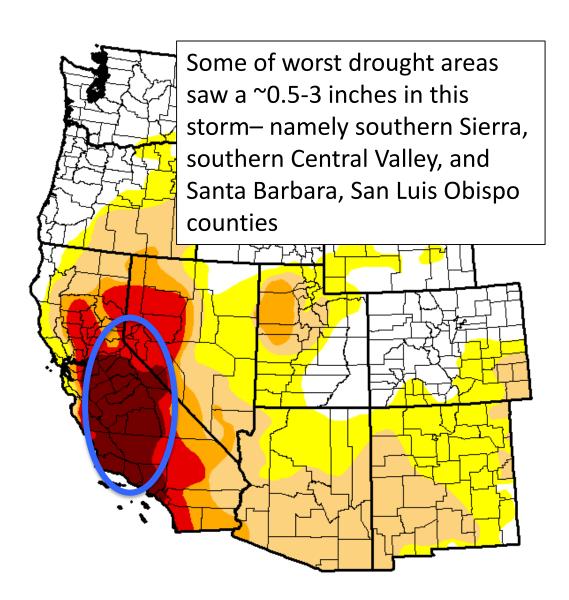
Snow Level Radar: San Luis Reservoir, CA



Impacts

- Minor impacts
 - Delayed/impacted outdoor events
 - Giants/Dodgers game in SF delayed
 - Some flooding in Las Vegas area
 - Generally beneficial precipitation
- May have impact on fire season in Great Basin, CA)
 - Spring rains increase vegetation that dries out in summer fire months

U.S. Drought Monitor West



April 5, 2016

(Released Thursday, Apr. 7, 2016) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	38.50	61.50	35.64	15.09	9.53	4.33
Last Week 3/29/2016	32.63	67.37	34.24	14.82	9.53	4.74
3 Months Ago 1/5/2016	33.48	66.52	45.17	25.43	13.09	6.85
Start of Calendar Year 12/29/2015	33.17	66.83	45.07	29.30	15.92	6.85
Start of Water Year 9/29/2015	22.77	77.23	57.81	42.42	26.50	7.62
One Year Ago 47/2015	27.70	72.30	59.80	37.72	17.04	7.63

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Richard Tinker CPC/NOAA/NWS/NCEP

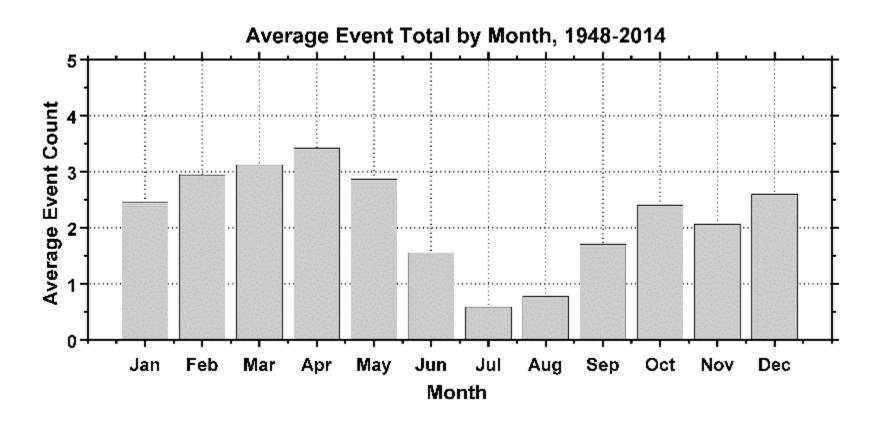








April 'tis the season for closed and cutoff lows in the Southwest



72393 VBG Vandenberg Afb 100 SLAT 34.75 Vandenberg AFB SLON -120.56 SELV 121.0 Saturday afternoon (4/9) SHOW 3.83 -2.25500 J/kg CAPE, LFTV -2.42 Lifted Index: -2.25 SWET 29.99 25.90 Appreciably unstable for CTOT 20.50 VTOT 27.50 this area! 200 48.00 CAPE 502.5 CAPV 568.1 CINS -3.22 CINV -0.05 EQLV 384.8 300 9160 m 380.8 886.8 LFCV 897.9 BRCH 35.67 BRCV 40.32 400 283.2 900.4 MLTH 291.8 500 MLMR 8.72 THCK 5713. PWAT 21.01 600 700 3006 m 800 900 1000 40 -30 -20 -10 0 10 20 30 -40 University of Wyoming 00Z 10 Apr 2016

