

Photo Collection of Monsoon July 28 to August 3, 2014

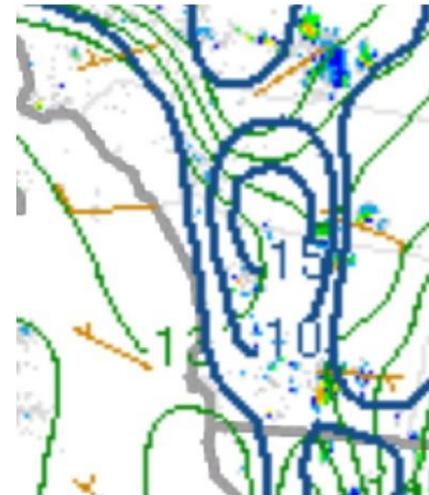
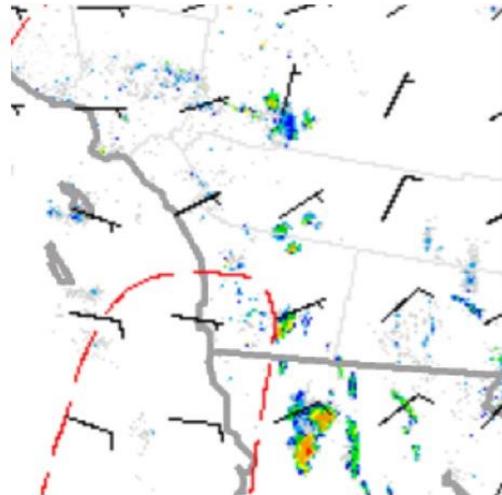
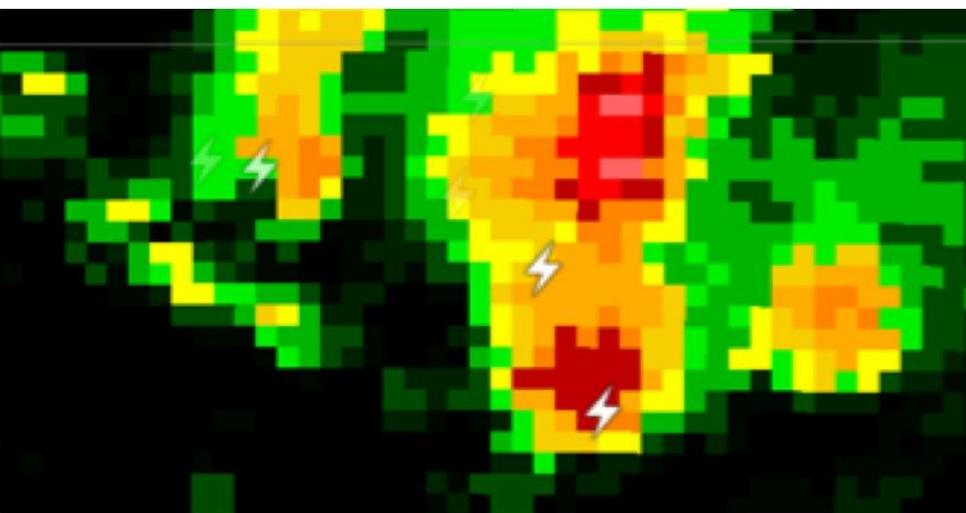
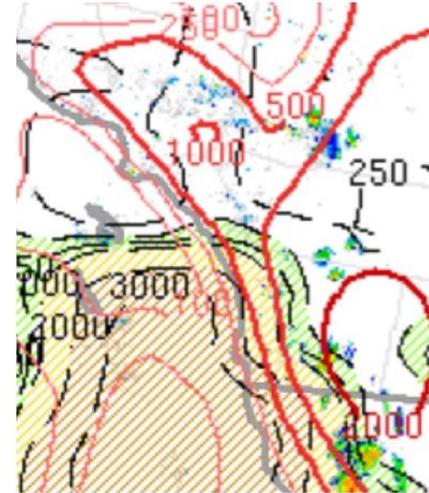
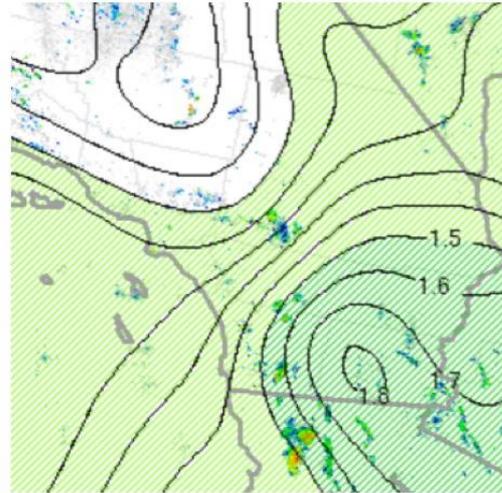
July 28, 2014



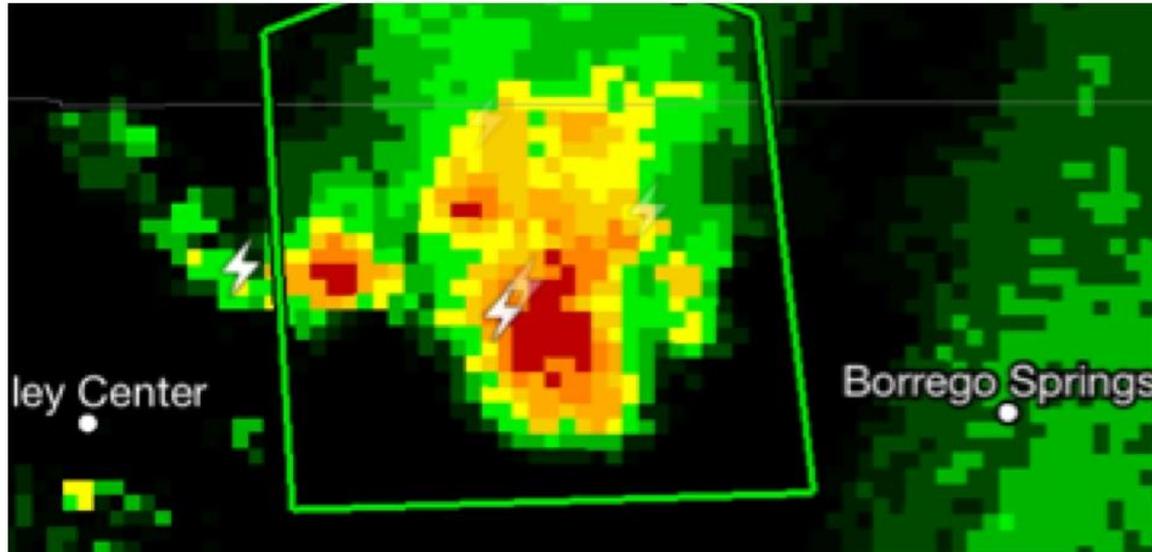
August 1, 2014 moisture surge Pre-upper low



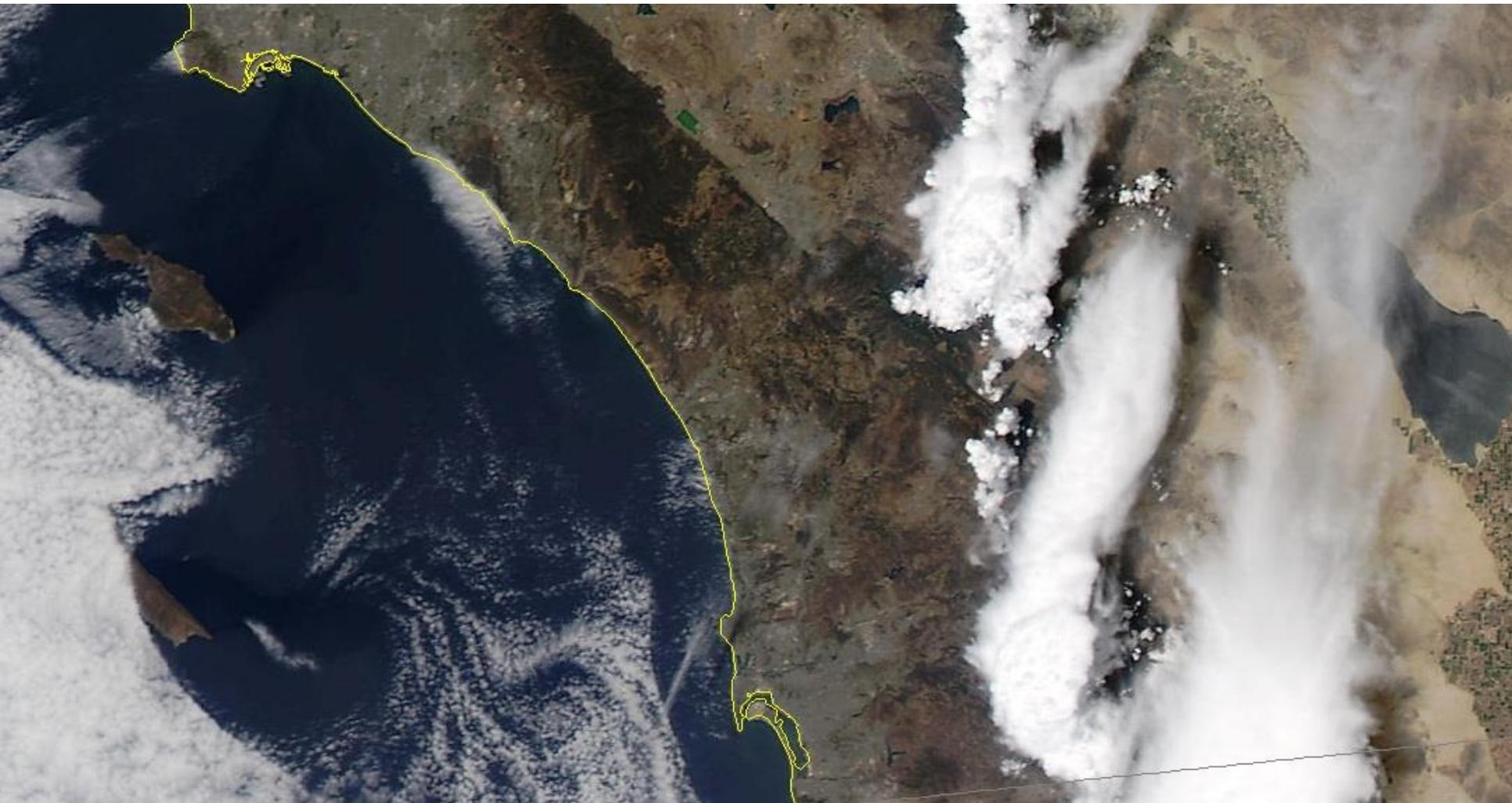
Glaciated tops

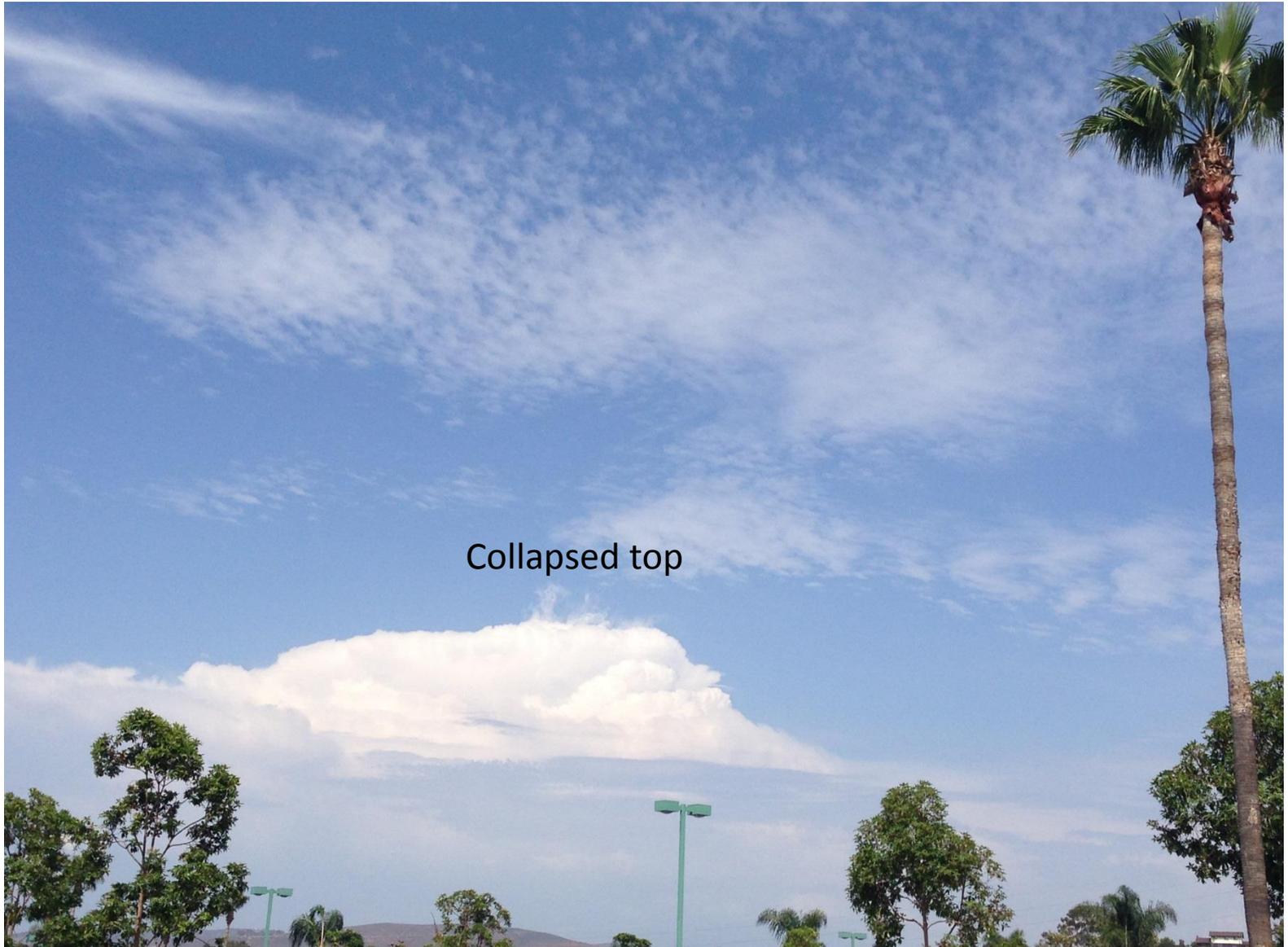


Persistent strong thunderstorms



MODIS view August 1





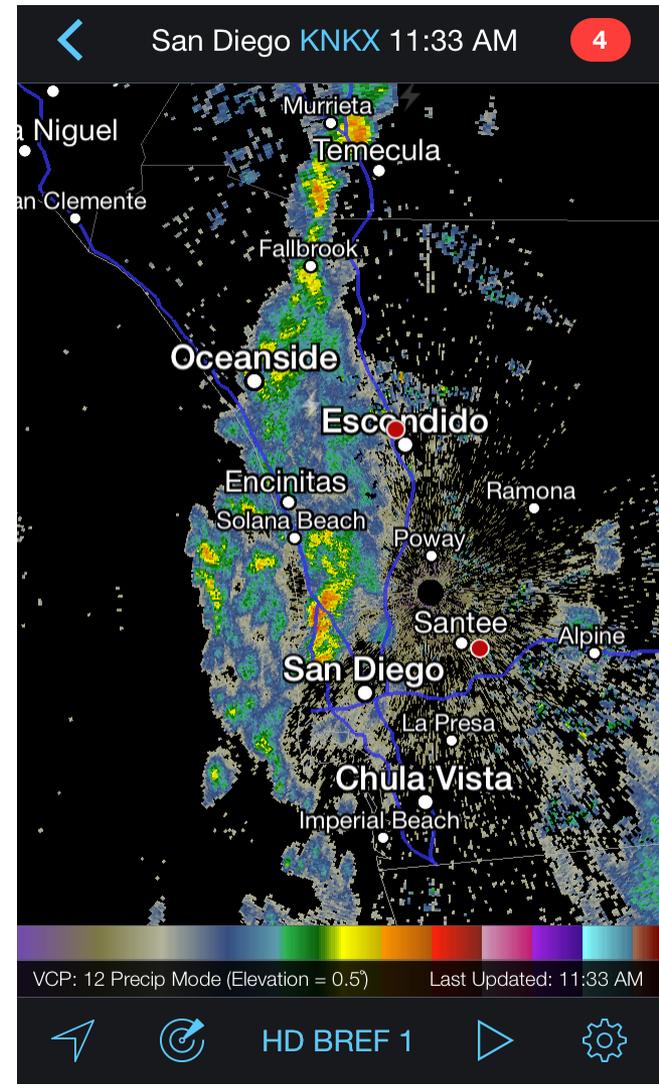
Collapsed top

Main Surge Flash Flood Watches

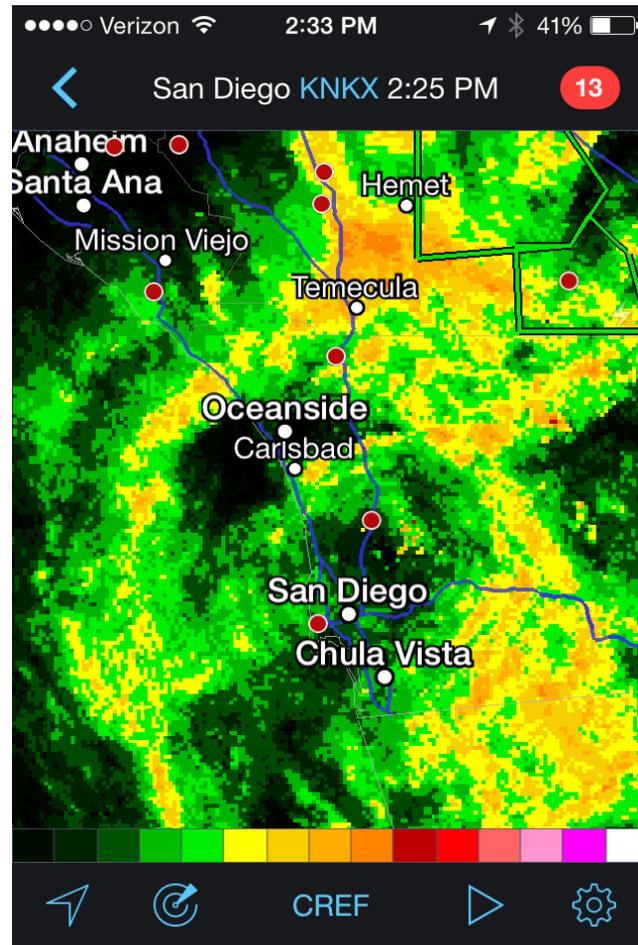
August 2, 2014



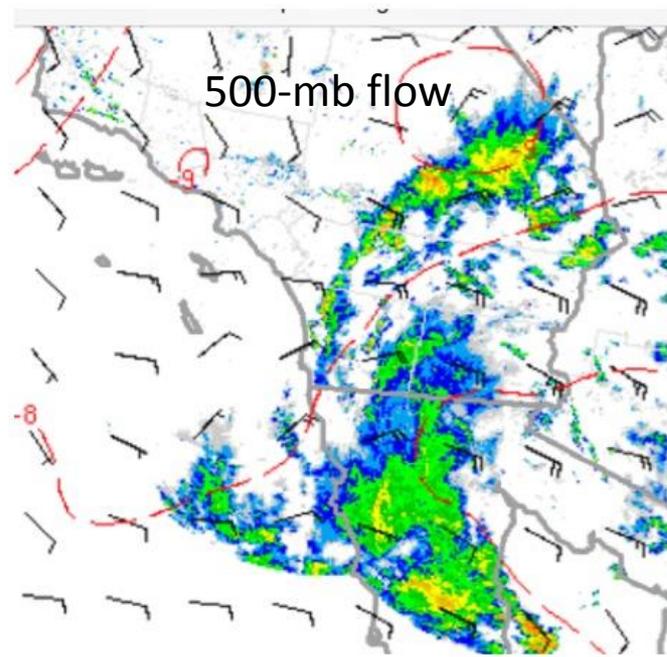
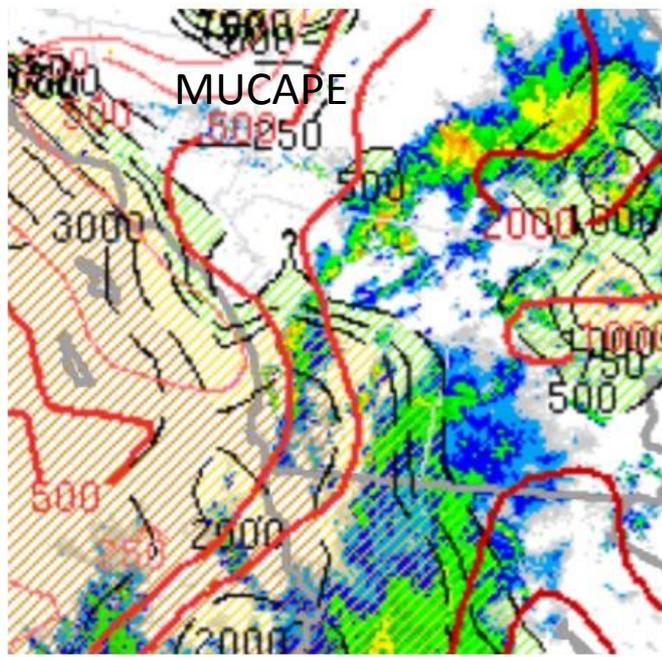
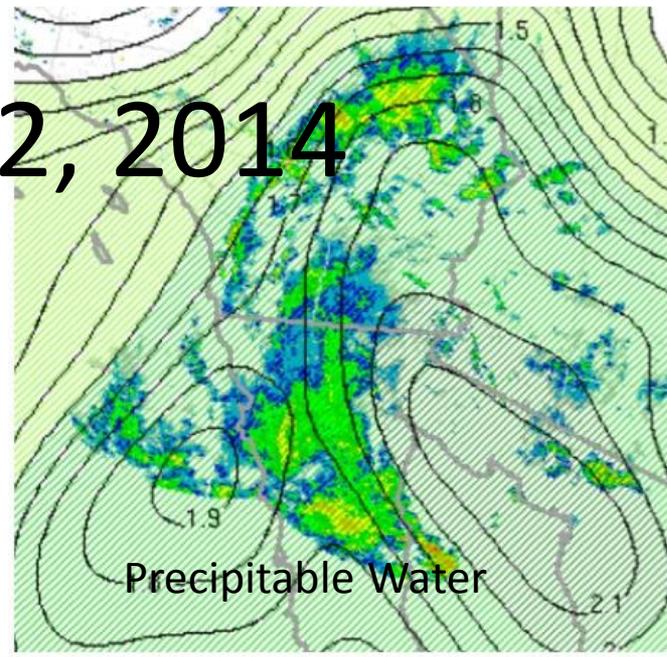
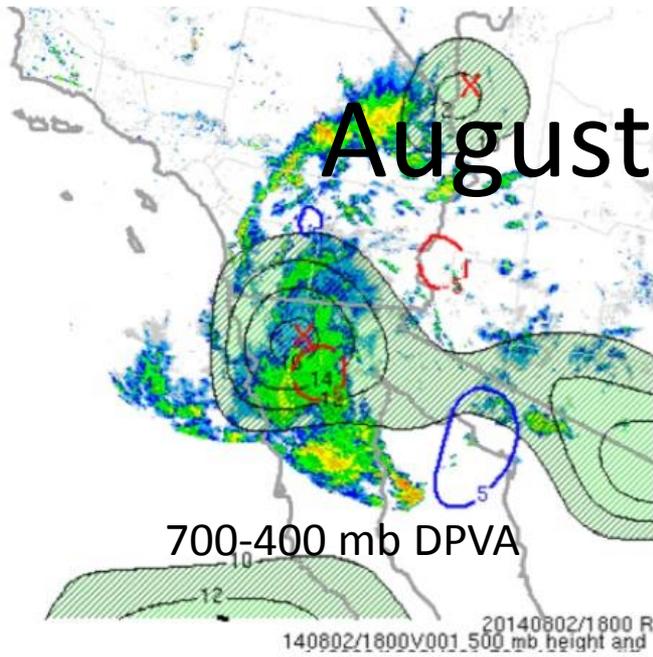
Morning Elevated thunderstorms August 2, 2014



Mesoscale Convective Vortex on radar



August 2, 2014



Leading Edge of Elevated Convection



Elevated Convection and Rainshaft

Marine Layer

Lagoon

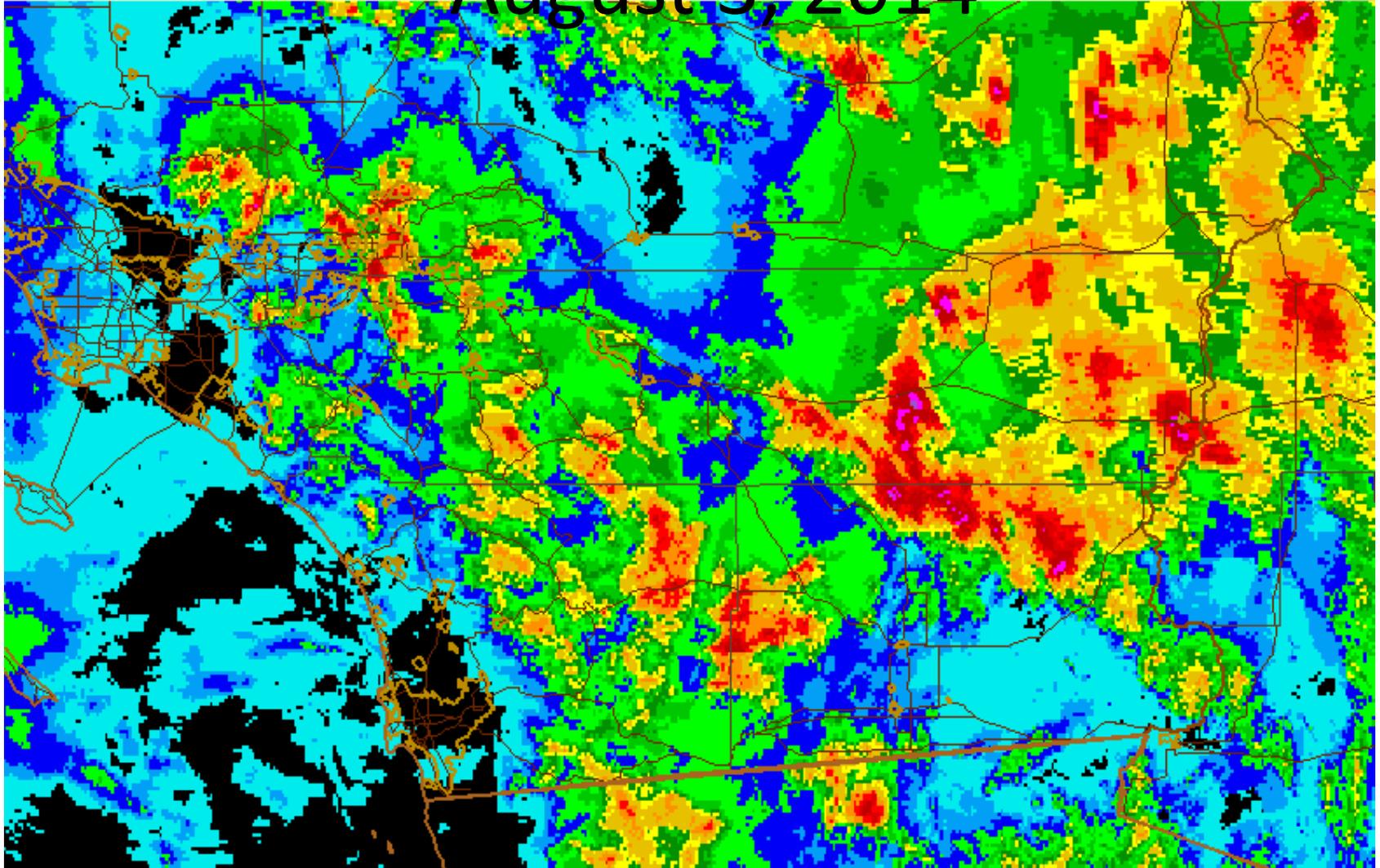


Radar Precipitation Estimate

Q3 [Radar Only]
12 hr Accumulation

Valid: 08/04/2014 05:00:00 UTC

August 3, 2014



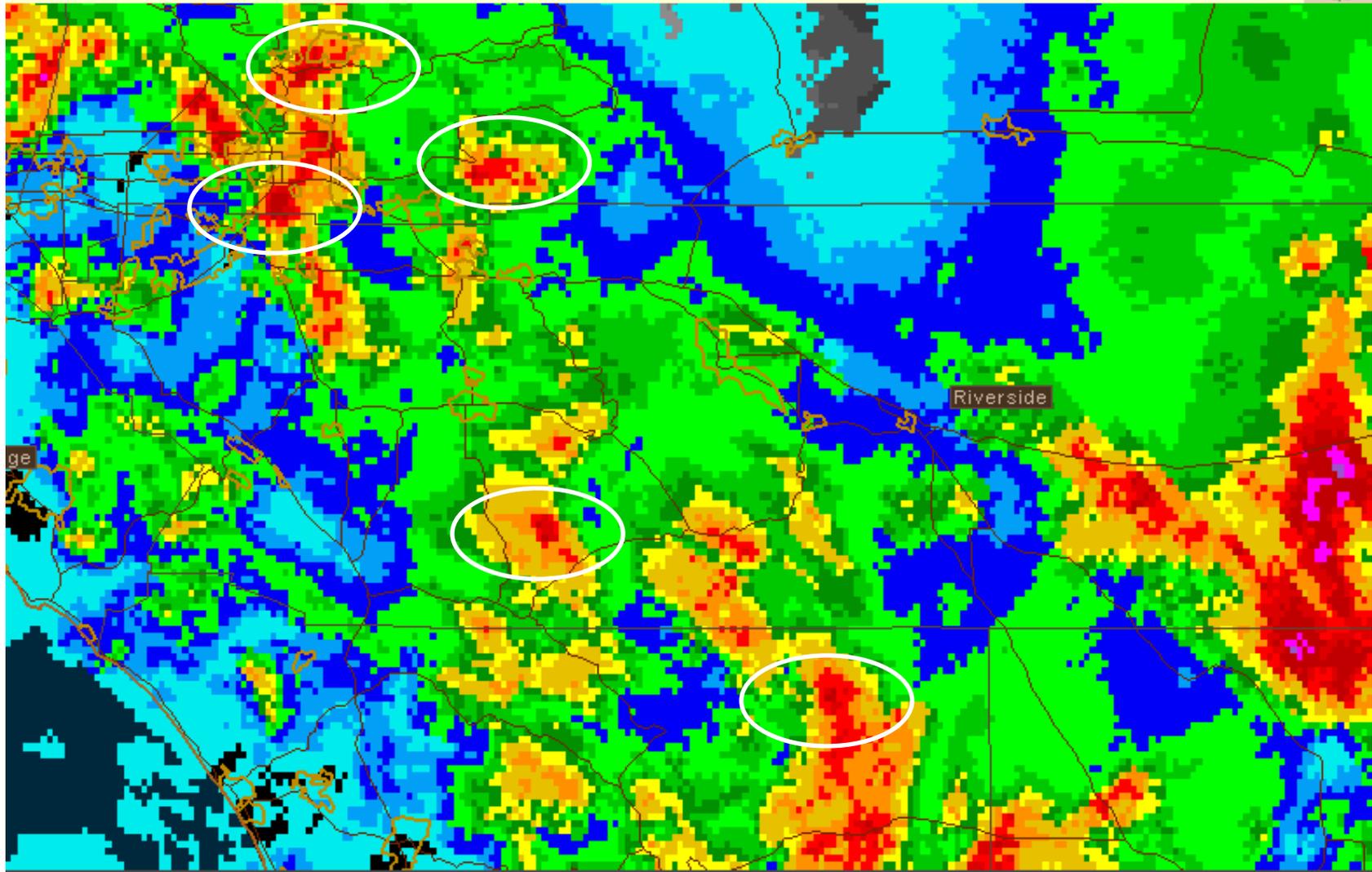
Precipitation [in]



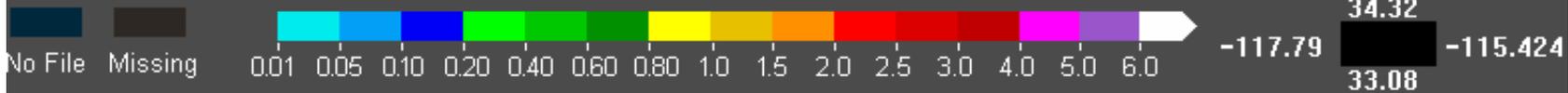
Q3 [Radar Only]

12 hr Accumulation

Valid: 08/04/2014 05:00:00 UTC



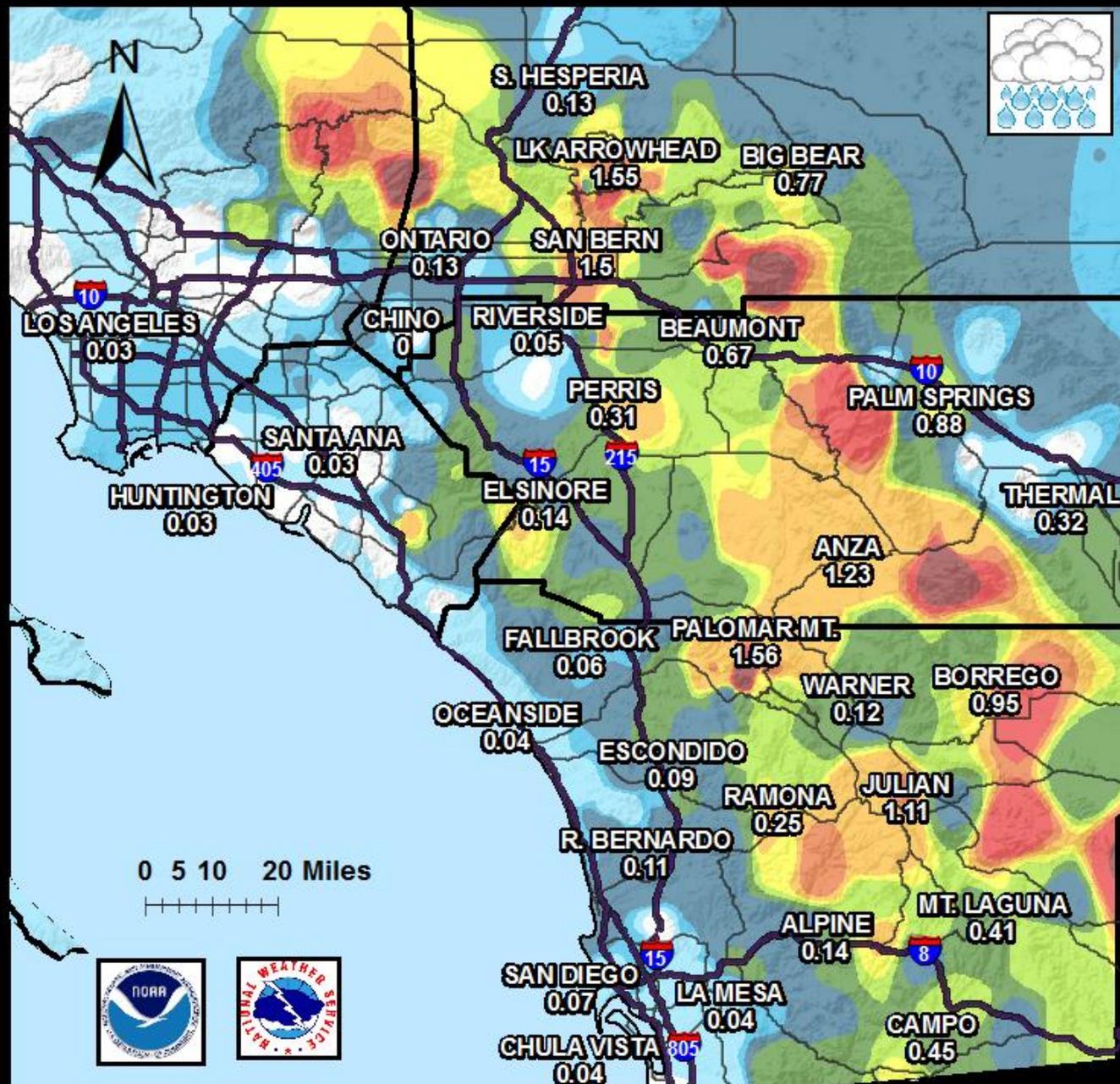
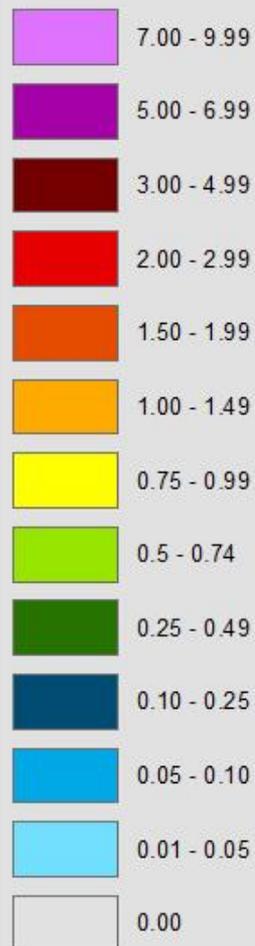
Precipitation [in]



48-Hour Observed Precip Amounts Ending 8/4/2014 at 5:00 AM

Created by:
National Weather Service
San Diego, CA

Rainfall Accumulation (In)



Summary August 3, 2014

- 3.96 inches in 2 hours at Yucaipa Ridge
- 4.00 inches in less than 2 hours Mt Baldy (worse flood damage since 1969)
- 11 million in damage for San Bernardino County
- 25 homes with flood and debris damage in San Bernardino County
- Flash Flooding west of the mountains including Redlands and Ramona
- Incident Command Post for Mt Baldy and Valley of the Falls (search and rescue)

24 hour precipitation on August 3

- 1. MT BALDY VILLAGE 3.89
- 2. YUCAIPA RIDGE 3.63
- 3. BOUCHER HILL 3.26
- 4. CREST PARK 2.72
- 5. MILL CREEK EAST 2.58
- 6. RIMFOREST 2.35
- 7. RECHE CANYON 1.85 2W LOMA LINDA
- 8. SMALL CANYON DAM 1.74
- 9. SD COUNTRY ESTATES 1.65
- 10. LAKE ARROWHEAD NW 1.59

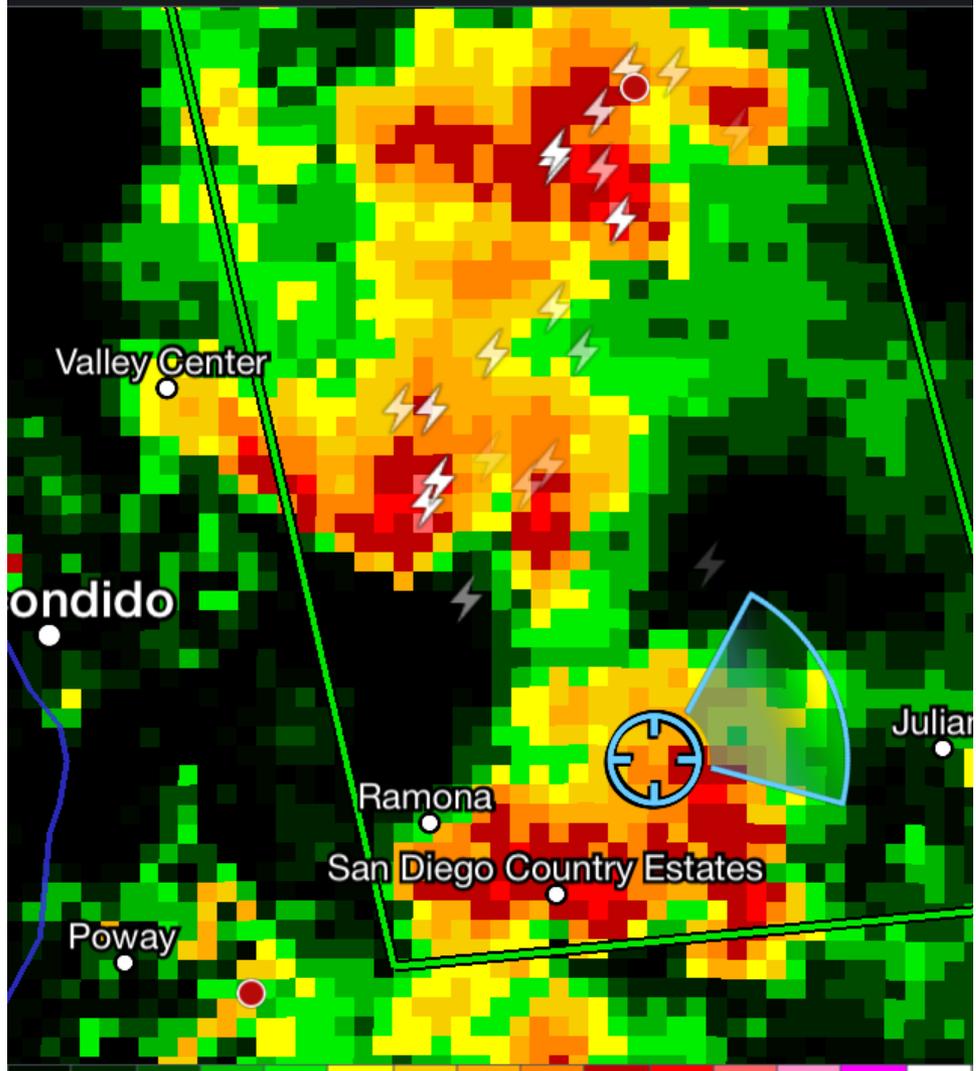
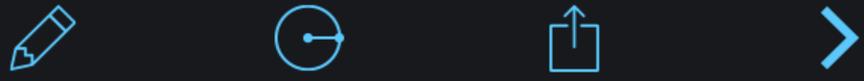
24 hour precipitation on August 2

- 1. SNOW CK 7N IDYLLWILD 2.48 3N SAN JACINTO PK
- 2. MOUNT SAN JACINTO 2.35 1ENE MT SAN JAC PK
- 3. YUCAIPA RIDGE 1.10 2ESE FOREST FALLS
- 4. TICK RIDGE 1.06 4NNW CABAZON
- 5. VISTA GRANDE 0.83 6SE BANNING
- 6. PUERTA LA CRUZ 0.77
- 7. KEENWILD RAWS 0.71 6SW IDYLLWILD
- 8. WARNER SPRINGS 0.71
- 9. VISTA GRANDE RAWS 0.70 6WNW SAN JACINTO PK
- 10. OAK GROVE 0.67

August 3, 2014



Ramona
San Diego Country Estates

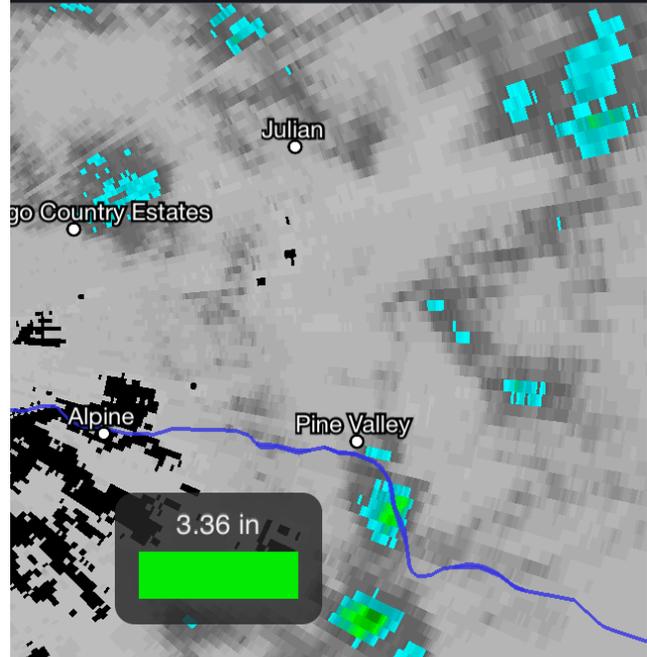
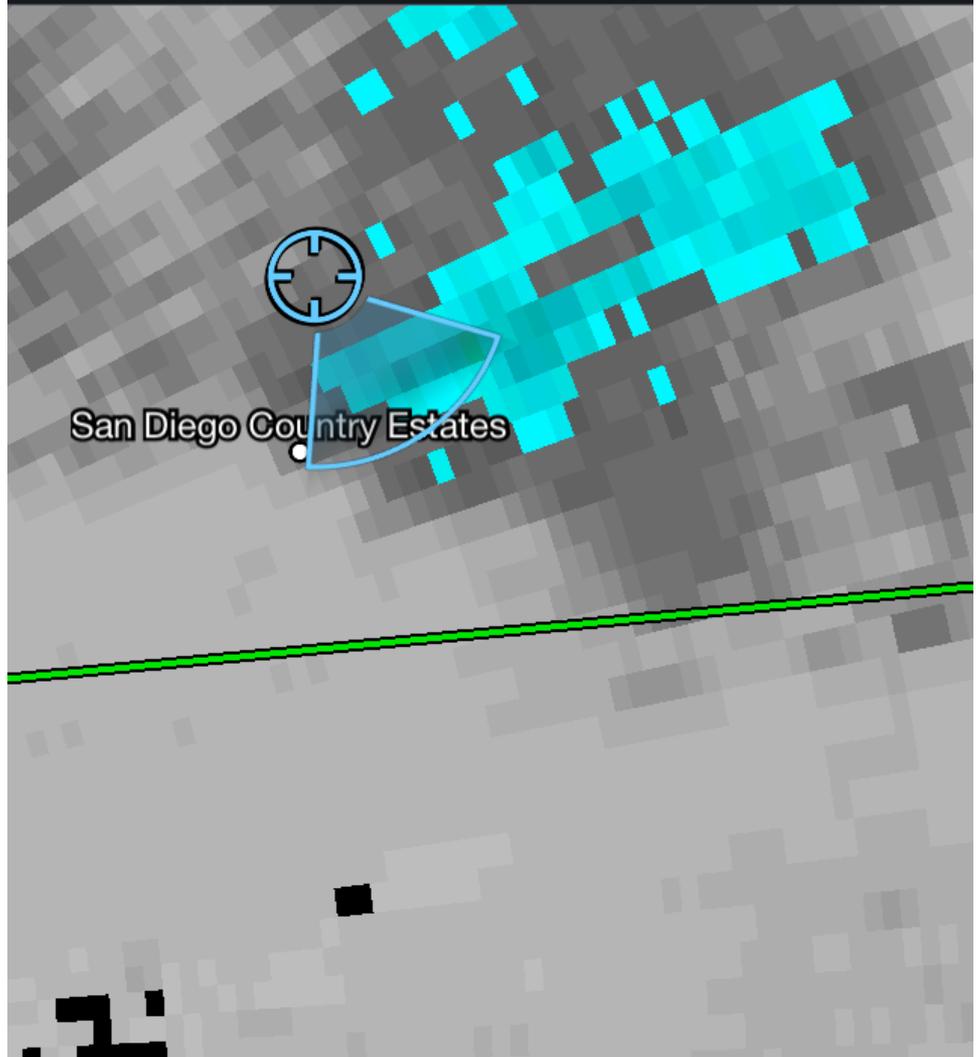




San Diego Country Estate

Ramona





VCP: 12 Precip Mode Last Updated: 10:39 PM

Borrego Springs

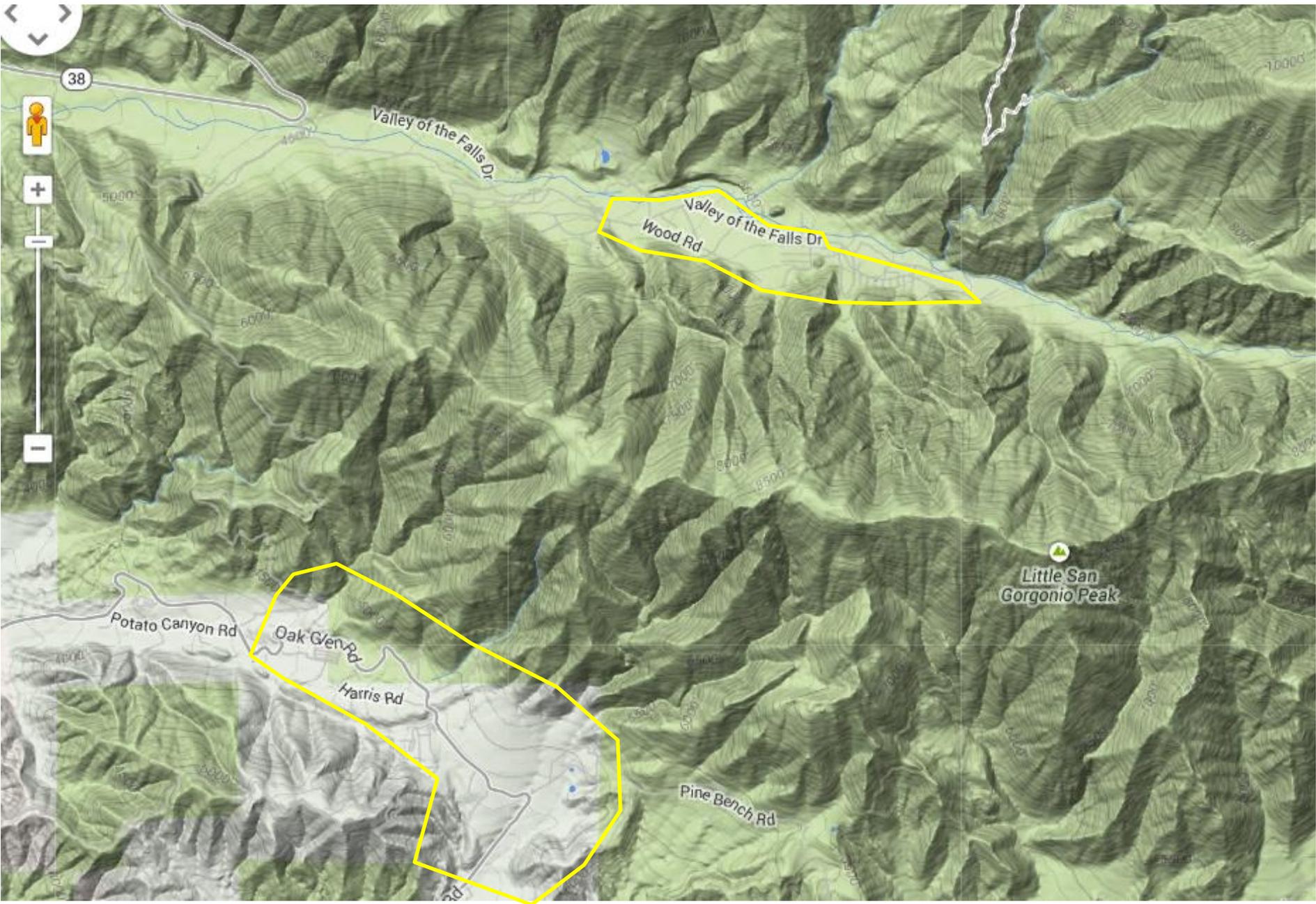




Road damage on Borrego-Salton Seaway
San Diego County Flood Control



Road damage on SR-78 going towards Ocotillo Wells
San Diego County Flood Control



Damage Assessment Valley of the Falls



ICP



Meeting Center
Flooded (back view)



Meeting Center
Flooded (front view)

Valley of the Falls



Meeting Center



Parking Lot



Main Road



Main Road

Main Road mud and rock debris closure



Forest Falls Valley of the Falls



Vehicle deposited in Mill Creek



Lytle Creek area



Lytle Creek

Green Mountain low crossing

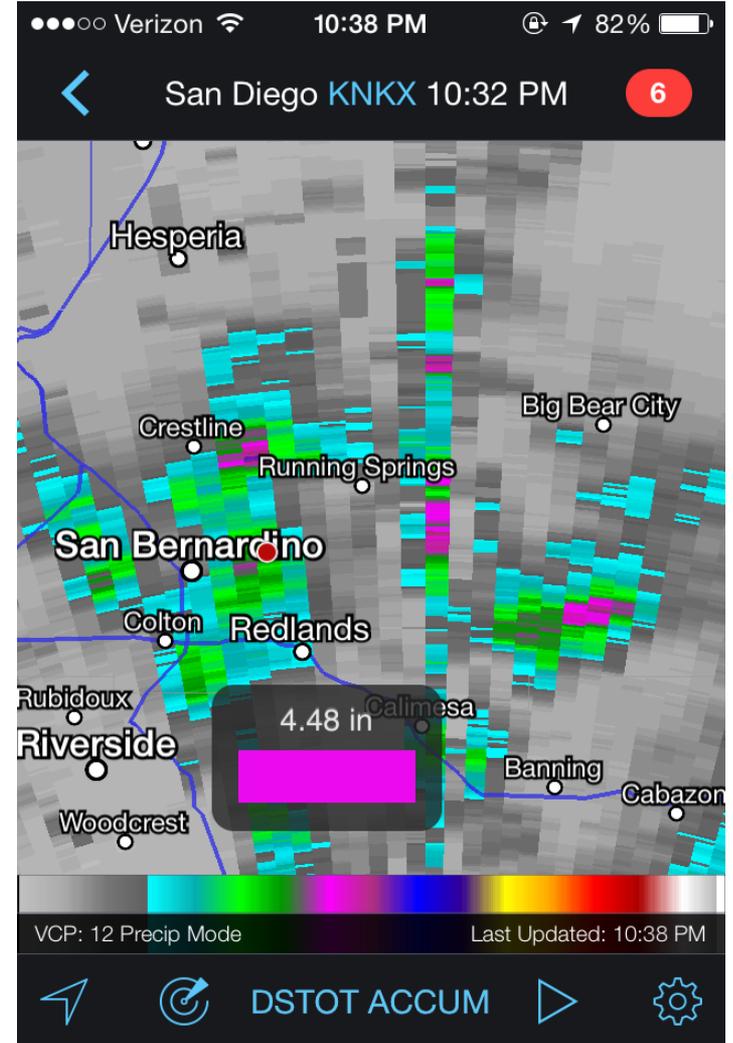


New Dirt For “make
shift” crossing

Redlands Heavy Rain Debris

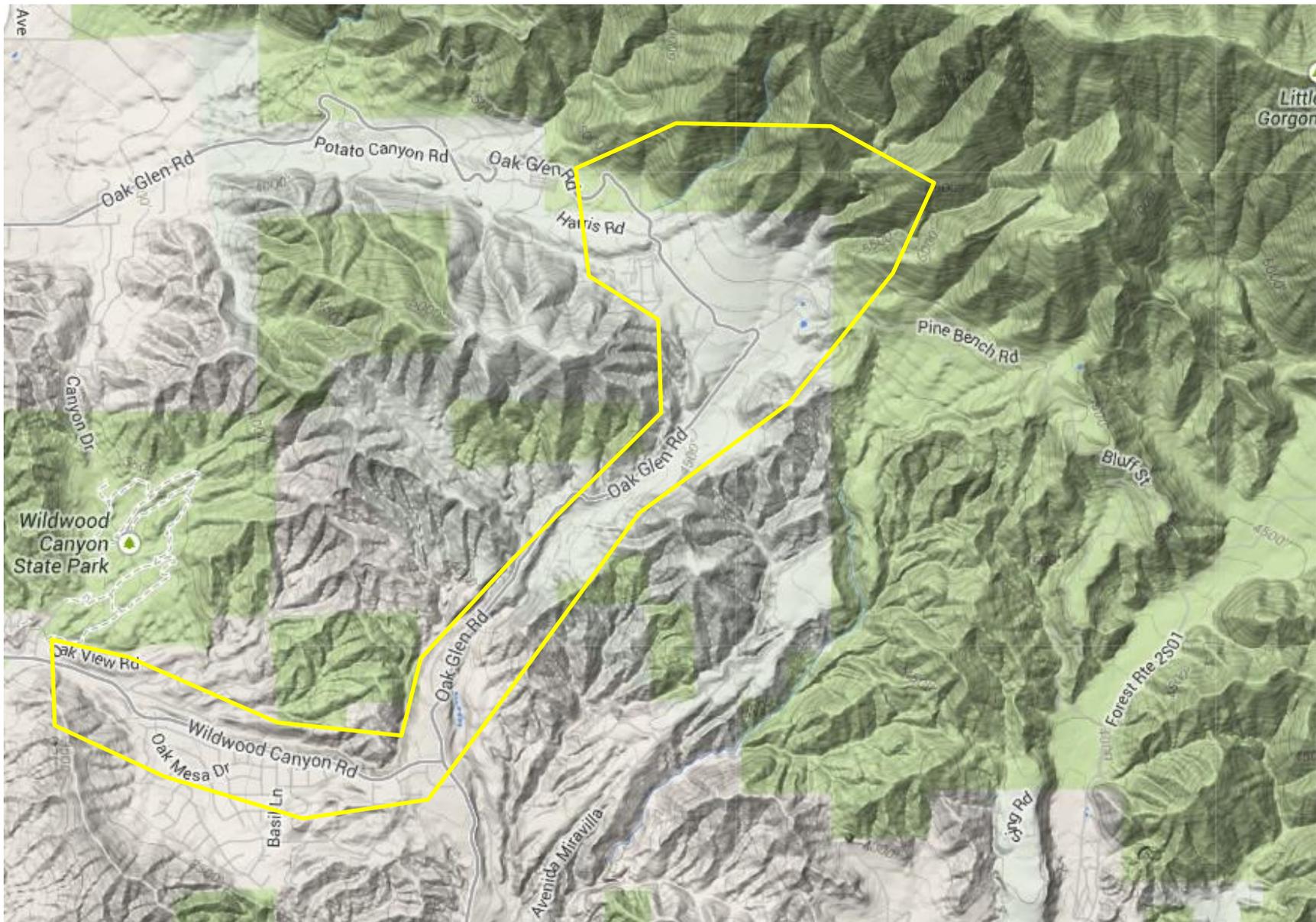


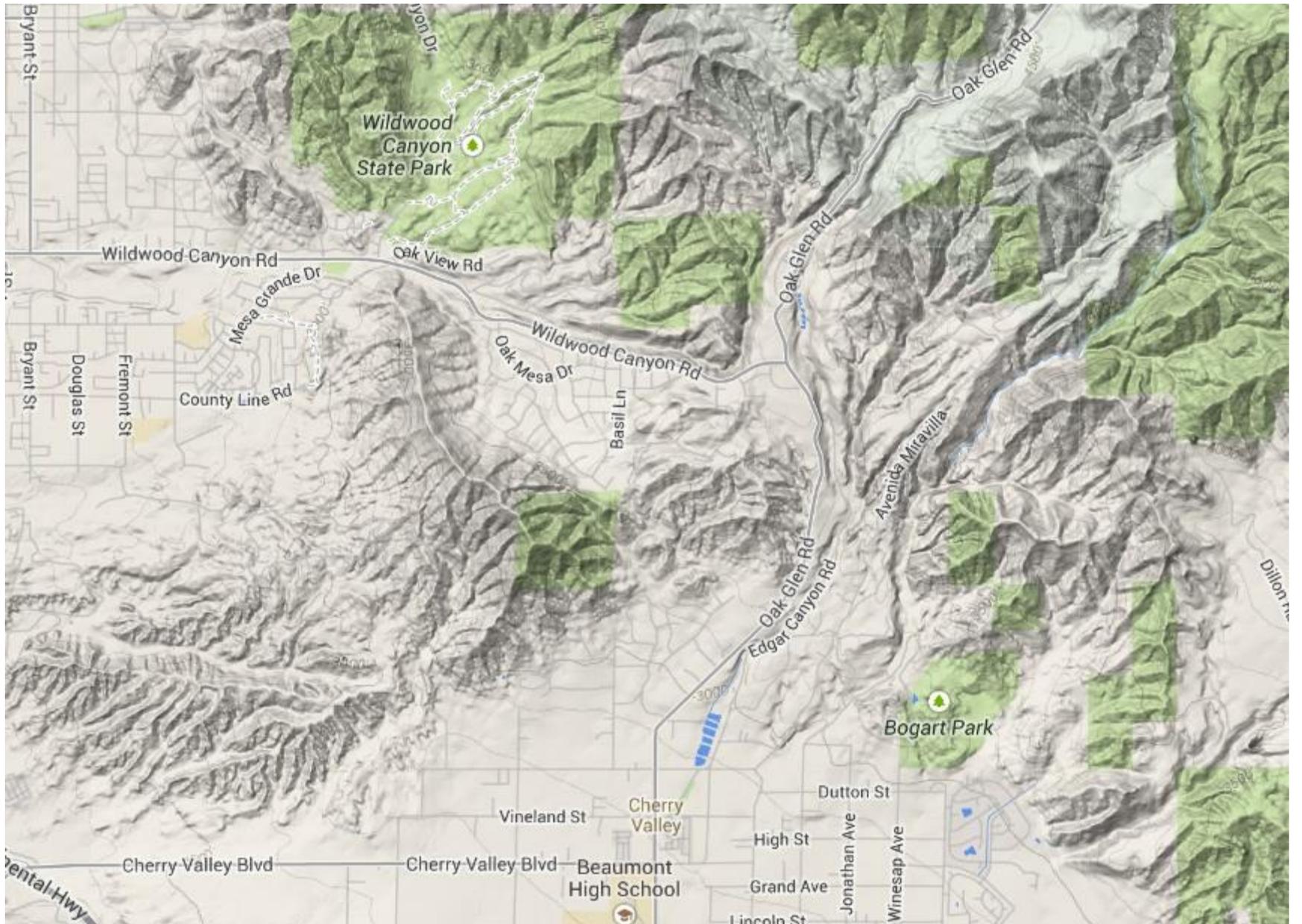
Oak Glen flood damage assessment



Oak Glen floods

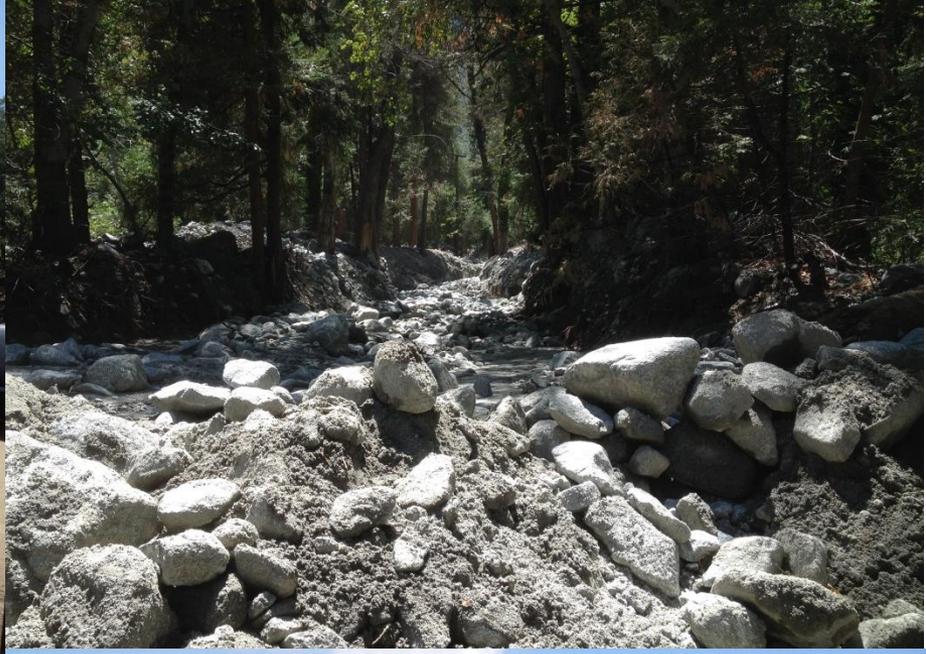




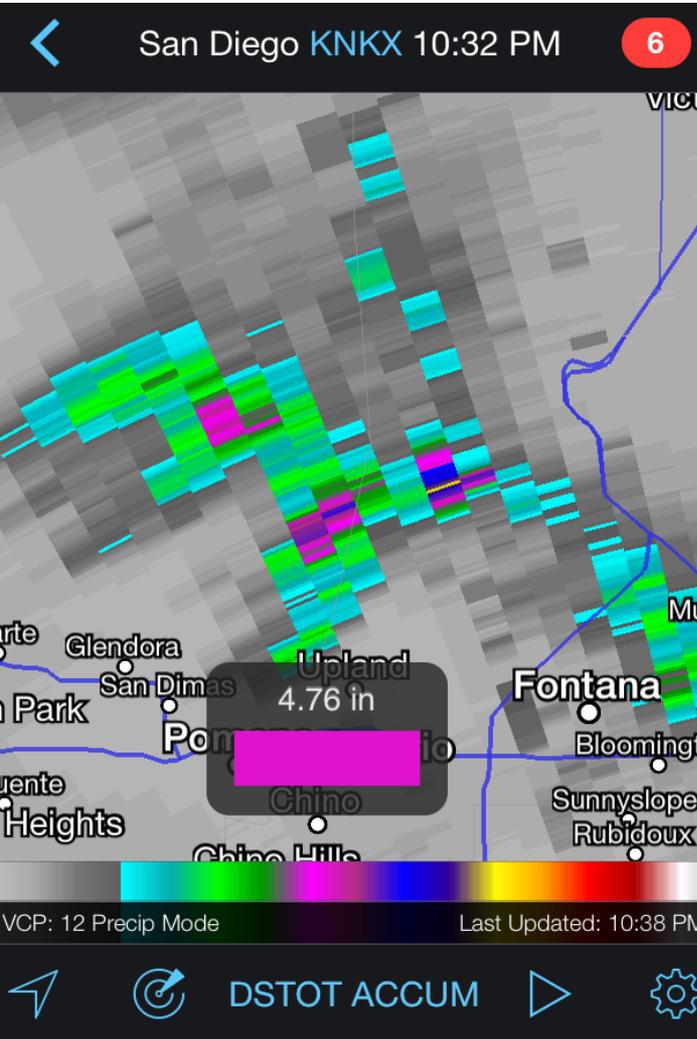








Mt Baldy Search and Rescue

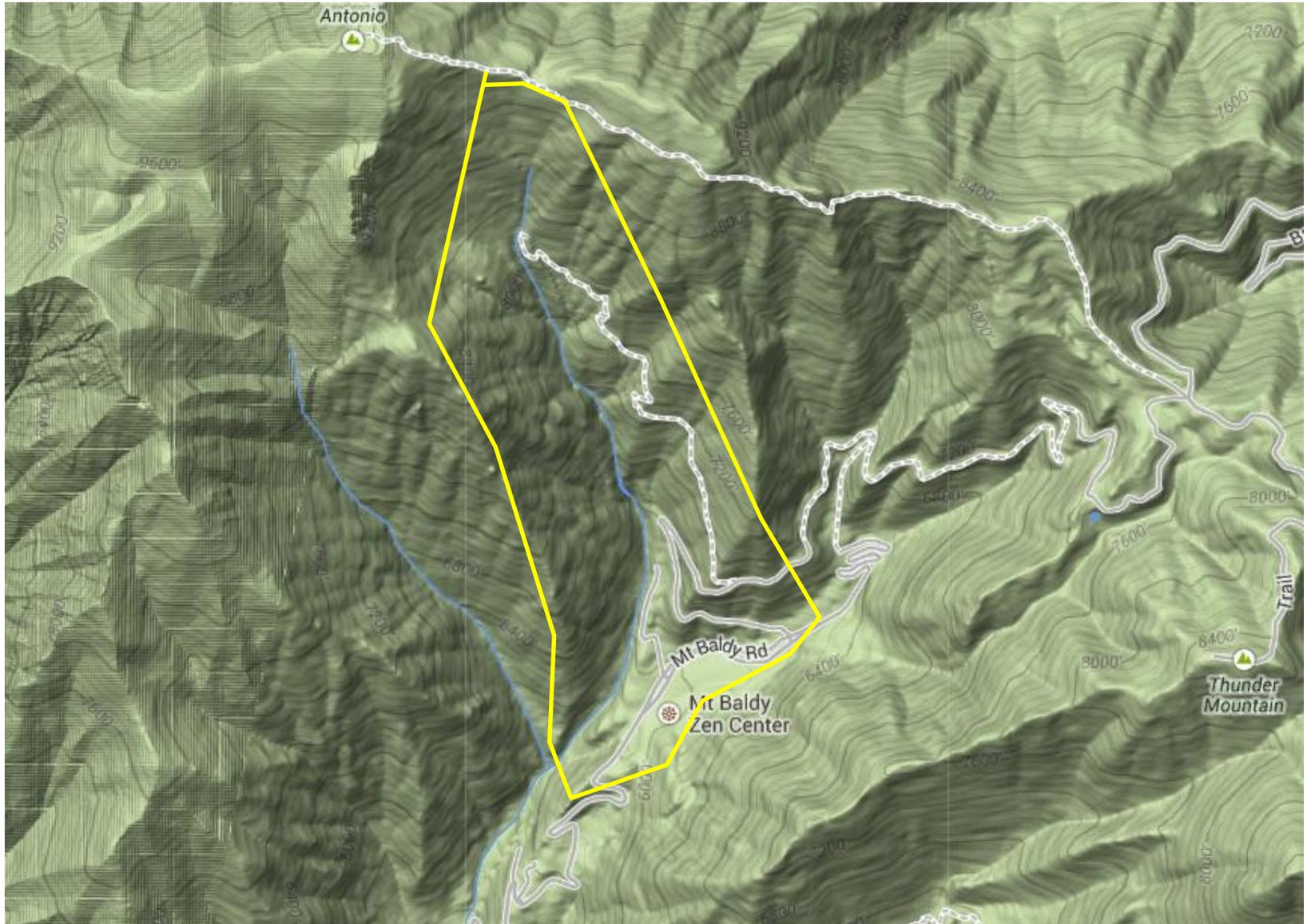


Mt Baldy

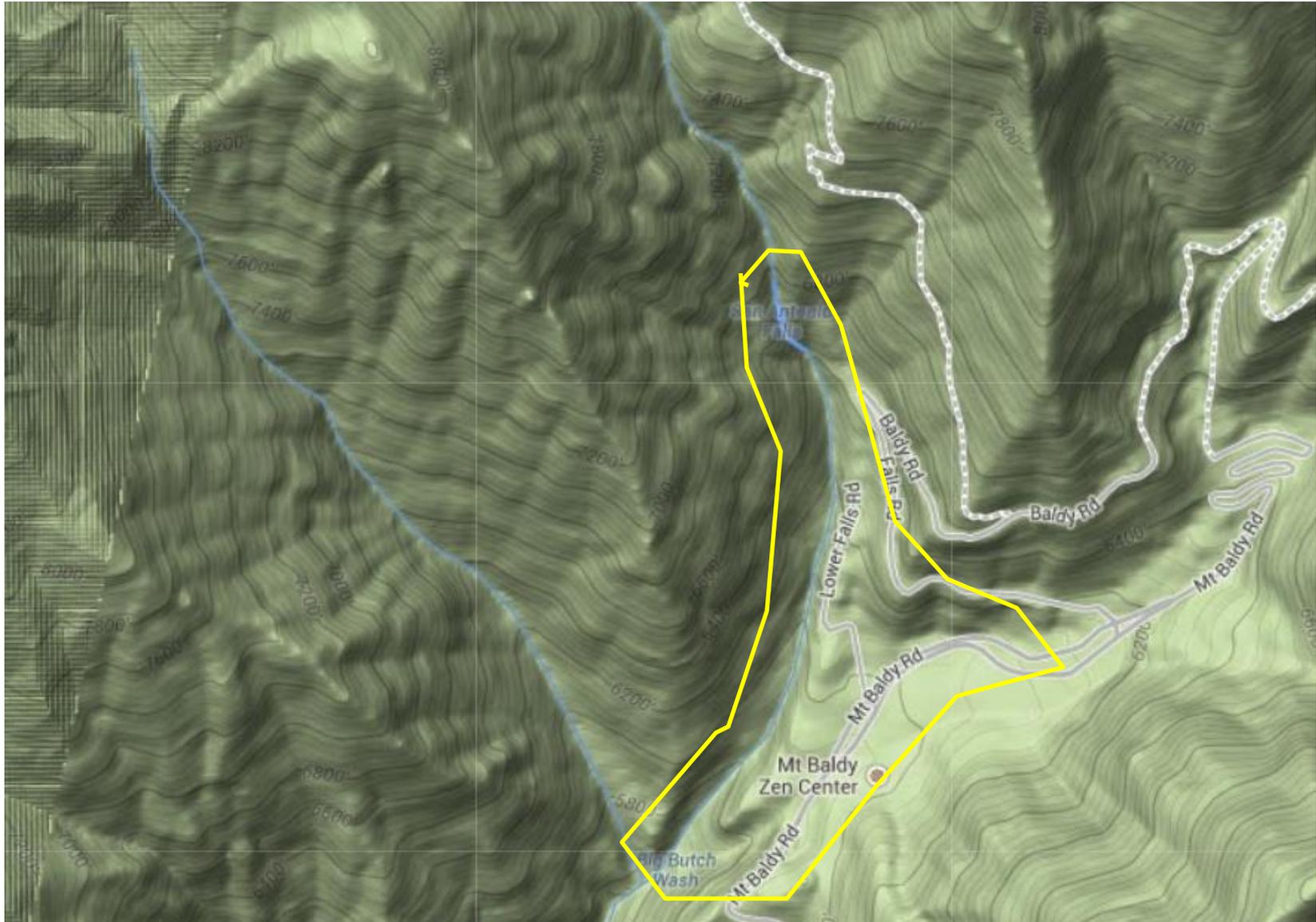
Joint San Bernardino and LA County



Mt Baldy



Mt Baldy Zen Center and homes



High water mark on tree











Media

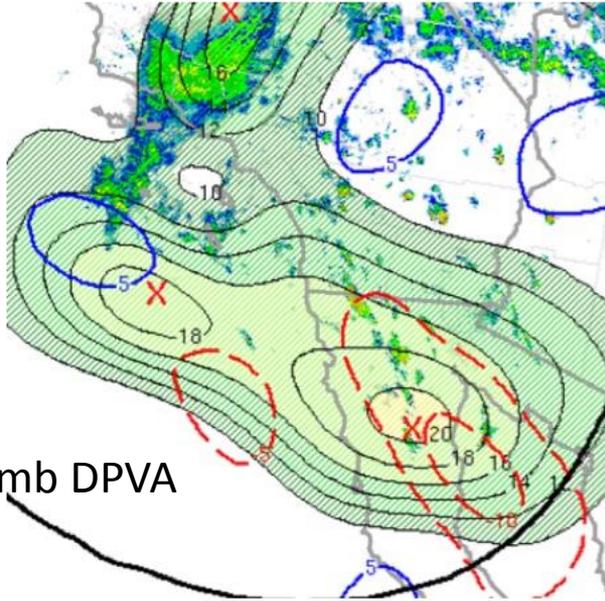


National Media coverage

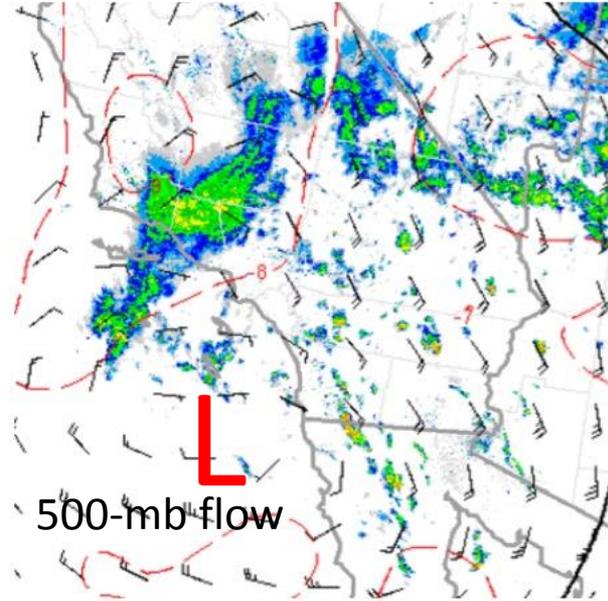


Upper Air analysis August 3

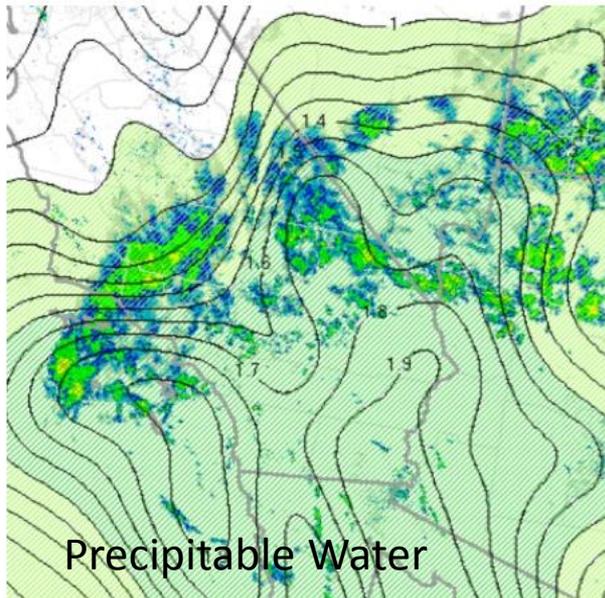
700-400 mb DPVA



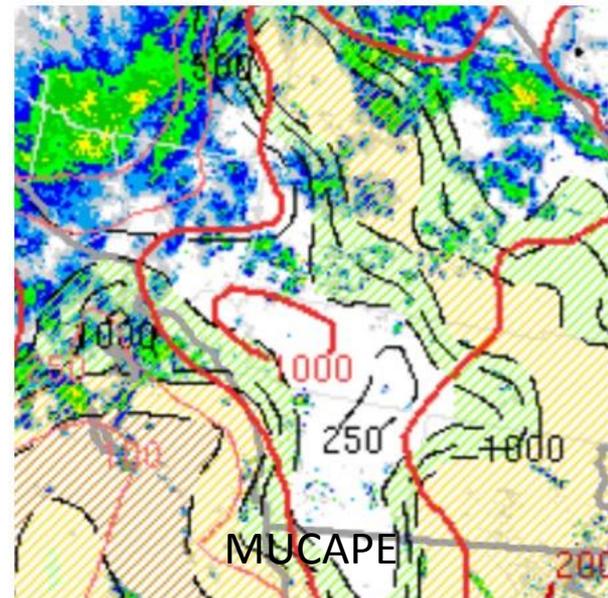
500-mb flow



Precipitable Water

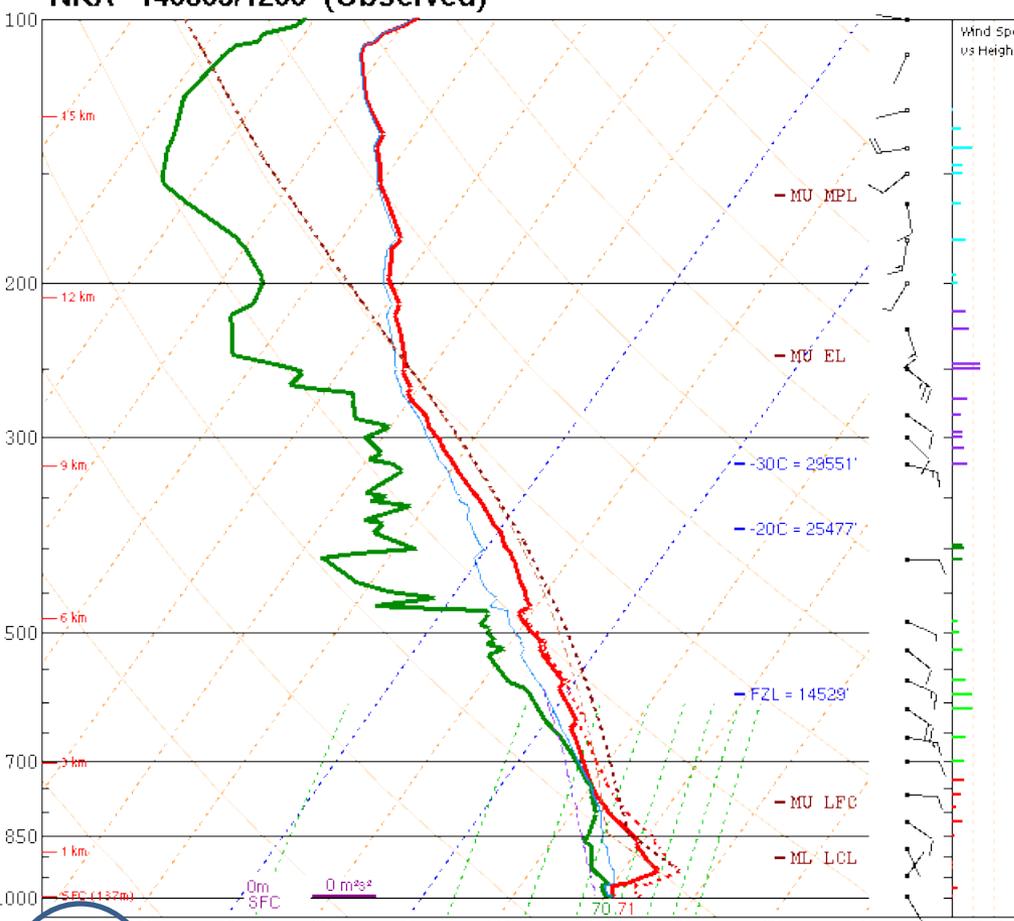


MUCAPE

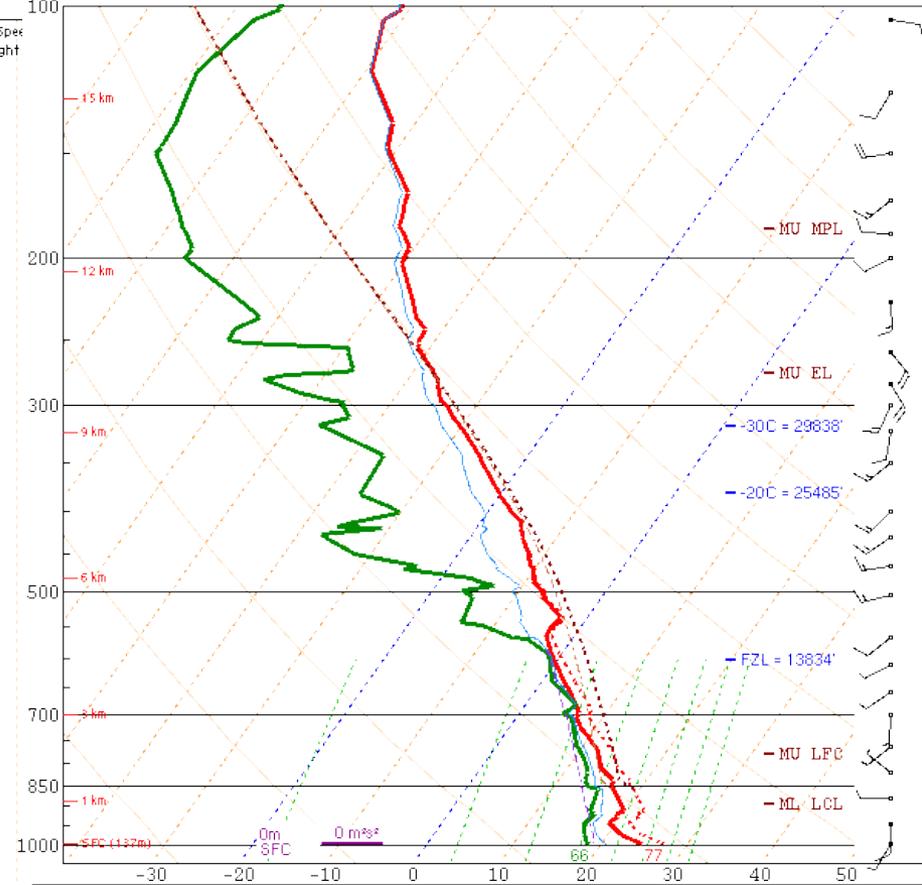


NKX 12 UTC August 3 and 00 UTC 4

NKX 140803/1200 (Observed)



NKX 140804/0000 (Observed)



PARCEL	CAPE	CINH	LCL	LI	LFC	EL	SRH(m2/s2)	Shear(kt)	MnWind	SR	
SURFACE	318	-194	26m	-2	2489m	34167'	SFC - 1 km	0	2	129/2	329.
MIXED LAYER	403	-153	883m	-3	2356m	34771'	SFC - 3 km	51	12	107/5	339.
FCST SURFACE	1673	0	1699m	-6	1699m	38980'	Eff Inflow Layer	0	0	150/3	326.
MU (934 mb)	687	-52	1459m	-3	2104m	35987'	SFC - 6 km	5	5	112/8	345.
PW = 1.94 in	3CAPE = 11 J/kg	WBZ = 13562'	WWDG = 0.0				SFC - 8 km	11	11	111/8	346.
K = 40	DCAPE = 529 J/kg	FZL = 14529'	ESP = 0.0				LCL - EL (Cloud Layer)	17	11	111/8	347.
MidRH = 91%	DownT = 67 F	ConvT = 89F	MMP = 0.02				Eff Shear (EBWD)	8	11	112/8	345.
LowRH = 76%	MeanW = 14.1 g/kg	MaxT = 91F	NCAPE = 0.08				BRN Shear = 4 m/s²				
SigSevere = 1039 m3/s3							4-6km SR Wind = 4/9 kt				
Sfc-3km Agl Lapse Rate = 5.1 C/km						Storm Motion Vectors.....				
3-6km Agl Lapse Rate = 6.3 C/km							Bunkers Right = 146/20 kt				
							Bunkers Left = 19/12 kt				

PARCEL	CAPE	CINH	LCL	LI	LFC	EL	SRH(m2/s2)	Shear(kt)	MnWind	
SURFACE	145	-92	768m	-1	2606m	23112'	SFC - 1 km	-25	6	204.
MIXED LAYER	65	-120	959m	-0	5635m	21340'	SFC - 3 km	-41	2	244.
FCST SURFACE	689	-2	1549m	-3	1744m	35123'	Eff Inflow Layer	0	0	210.
MU (859 mb)	449	-11	1521m	-2	2104m	33241'	SFC - 6 km		9	245.
PW = 1.88 in	3CAPE = 2 J/kg	WBZ = 13619'	WWDG = 0.0				SFC - 8 km		9	243.
K = 36	DCAPE = 351 J/kg	FZL = 13834'	ESP = 0.0				LCL - EL (Cloud Layer)		17	258.
MidRH = 90%	DownT = 67 F	ConvT = 88F	MMP = 0.01				Eff Shear (EBWD)		10	243.
LowRH = 80%	MeanW = 13.2 g/kg	MaxT = 87F	NCAPE = 0.06				BRN Shear = 3 m/s²			
SigSevere = 304 m3/s3							4-6km SR Wind = 191/16 kt			
Sfc-3km Agl Lapse Rate = 6.4 C/km						Storm Motion Vectors.....			
3-6km Agl Lapse Rate = 5.7 C/km							Bunkers Right = 335/14 kt			
850-500mb Lapse Rate = 5.9 C/km							Bunkers Left = 189/17 kt			
700-500mb Lapse Rate = 5.6 C/km							Corrid: Downshear = 240/14 kt			
							Corrid: Upshear = 243/6 kt			

Supercell = 0.0
 Left Supercell = 0.0
 STP (eff layer) = 0.0
 STP (fix layer) = -0.0
 Sig Hail = 0.0

1km & 6 Wind