It's Not Always Sunny in SoCal

NOAA
National Weather Service

Dr. Ariel Cohen
Meteorologist In Charge
NWS Los Angeles/Oxnard

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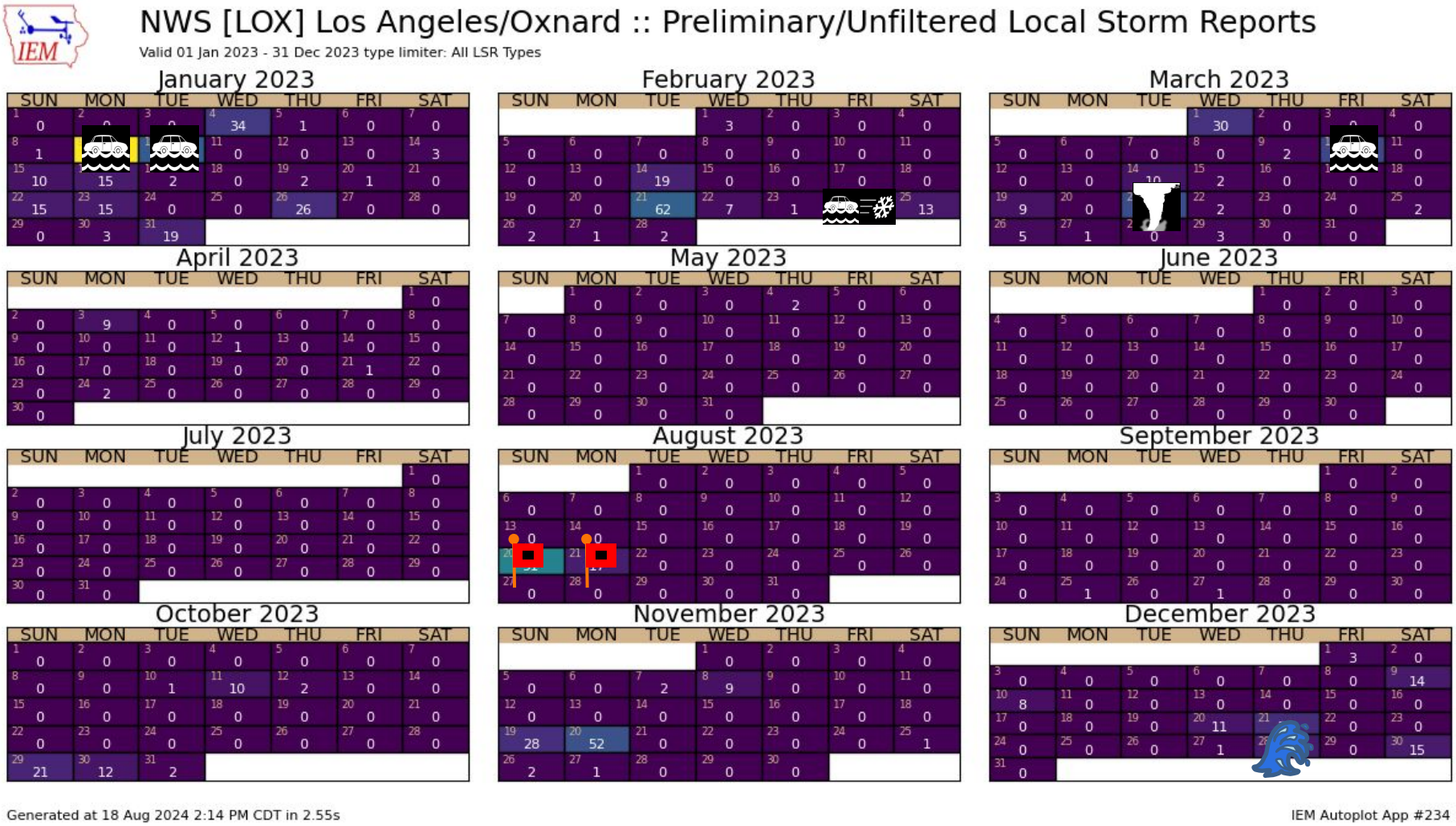
Meteorologist
NWS Los Angeles/Oxnard

2023: Major Disaster Days



SoCal: Complex terrain, 2nd largest population in the nation, high-profile areas, diverse structures

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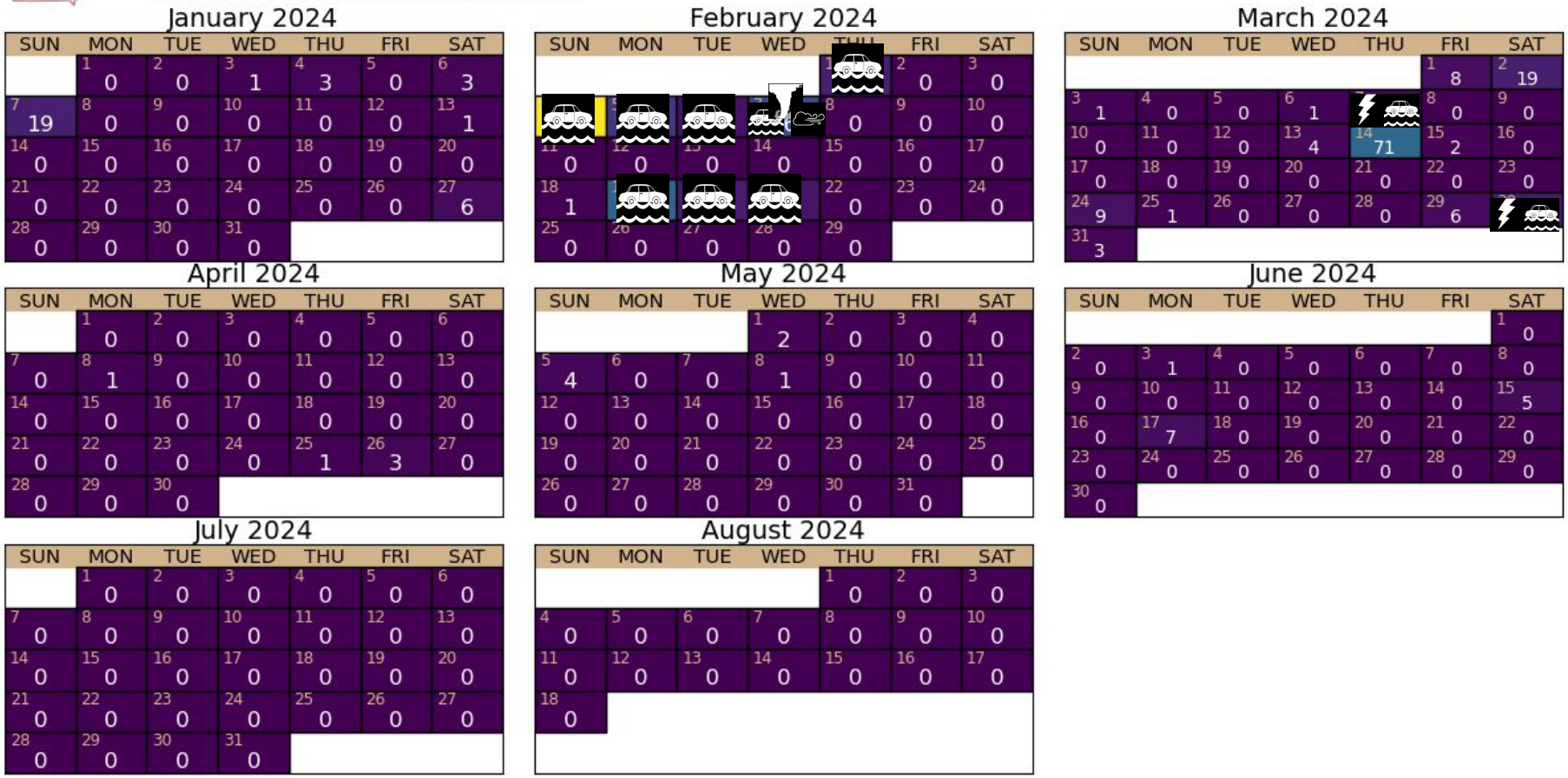
Prone to Disasters!

2024: Major Disaster Days

NWS [LOX] Los Angeles/Oxnard :: Preliminary/Unfiltered Local Storm Reports

Valid 01 Jan 2024 - 18 Aug 2024 type limiter: All LSR Types



Generated at 18 Aug 2024 2:13 PM CDT in 0.70s

IEM Autoplot App #234

SoCal: Complex terrain, 2nd largest population in the nation, high-profile areas, diverse structures

=

Prone to Disasters!

NWS LA/Oxnard Public Information Statement – April 1, 2024

STATS!

...WETTEST BACK-TO-BACK WATER YEARS
(10/1/22-9/30/23 & 10/1/23-9/30/24)
IN DOWNTOWN LOS ANGELES (DTLA)
SINCE THE LATE 1800S (1890)!!!...

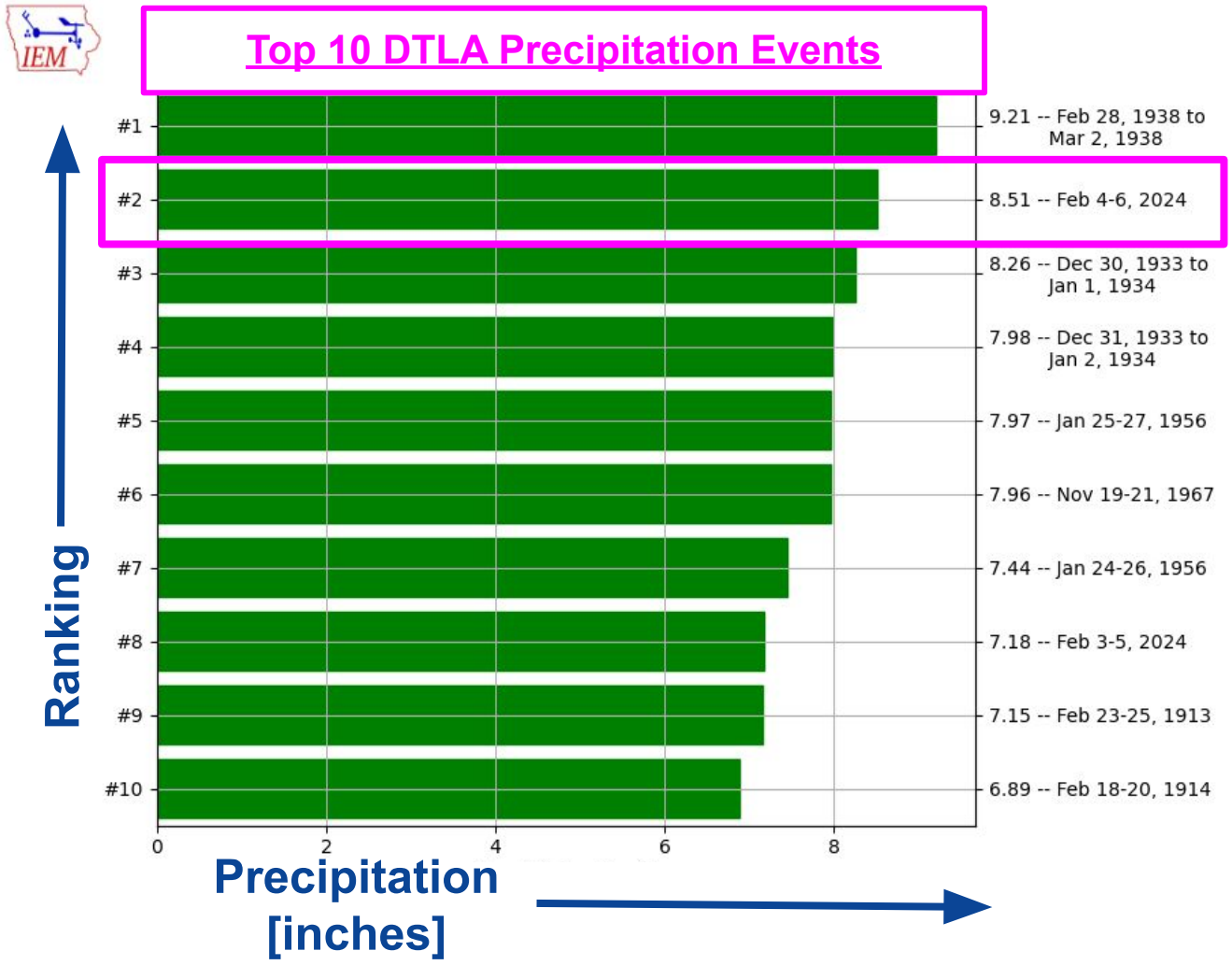
2022-2023 water year was **7th-wettest** on record, including **8th-wettest** January, **7th-wettest** March, and **wettest** August (Tropical Storm Hilary).

2023-2024 water year – Four major storm systems in February 2024, including **4th-wettest** calendar day in any February with 4.10 inches of rain.

Top five wettest back-to-back rain seasons in Downtown Los Angeles:
1. 54.10" from Oct 1888 through Sep 1890.
2. **52.46" from Oct 2022 through Mar 2024** (with 6 months left).
3. 50.86" from Oct 1977 through Sep 1979
4. 50.44" from Oct 2004 through Sep 2006
5. 50.29" from Oct 1882 through Sep 1884

Normal 2-year precipitation in DTLA: 28.50”

Historic rainstorm brought destructive flooding and landslides early February 2024.
Starting 2/4, a powerful Atmospheric River deluged Downtown LA with a
3-day rainfall total of 8.51 inches – the highest since 1938 and 2nd-highest since records began 1877!



of Storm Reports Per Month

Counting: ...

NWS [LOX] Los Angeles/Oxnard

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2005							2	1	3	5	9	5	25
2006	16	3	16	5	1	1	7			1	12	21	83
2007	2		6	9	1			1	9	15	2	22	67
2008	81	8	1	2	12	1	6			12	14	31	168
2009	39	15	8	21	24		8			19	7	18	159
2010	114	4	17	21	14		26	33		12	15	49	305
2011	15	15	75	11	9		7	22	13	10	41	60	278
2012	28	8	53	2	14	6	4	25	6	12	5	6	169
2013	26	22	4	25	20	7	5	10		32	8	28	187
2014	20	24	16	31	18		4	14	44	4	18	72	265
2015	13		14	12		5	14	105	15	43	22	25	268
2016	132	22	66	15	2	22	9		1	3	10	54	336
2017	87	73	30	32	17	5		5	13	45	10	95	412
2018	50	6	31	63	15	11	4	2		10	31	7	230
2019	56	740	19	32	6	1	8		1	30	21	29	943
2020	27	80	7	19	8	12		5		39	28	74	299
2021	194	100	14		16	8		5	2	49	79	65	532
2022	149	72	26	11	55	8	1		26	8	186	70	612
2023	413	182	157	13	2			108	2	48	88	91	1104
2024	33	417	149	5	7	13							624

Month

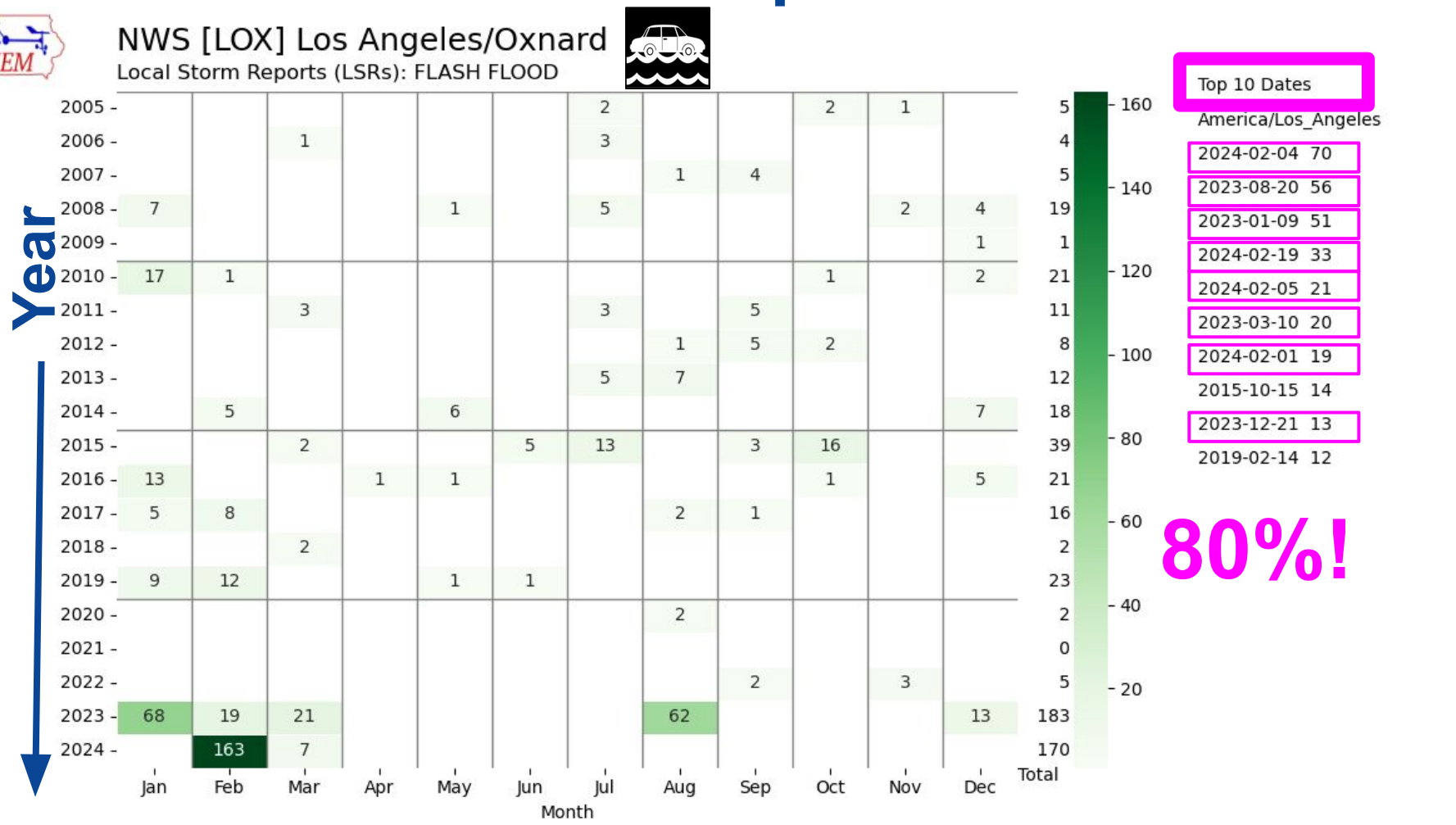
Top 10 Dates

Top 10 Dates
America/Los_Angeles
2019-02-02 669
2024-02-04 214
2023-01-09 207
2016-01-31 97
2023-08-20 91
2022-01-22 90
2024-03-14 72
2023-02-24 72
2015-08-16 69
2022-11-08 68

50%!

IEM Autoplot App #245

of Flash Flood Reports Per Month



Month

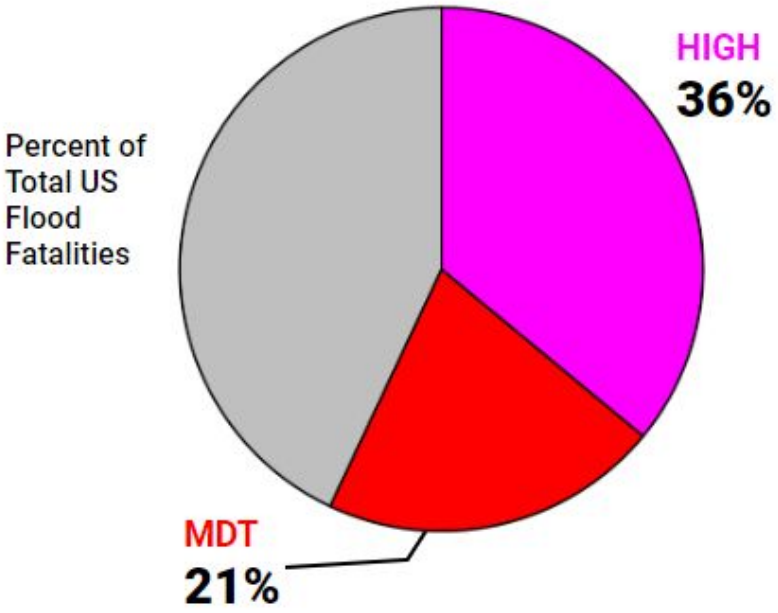
Credit: YouTube
Videos show California flooding, storm damage
CBS News

HIGH RISK from the Weather Prediction Center

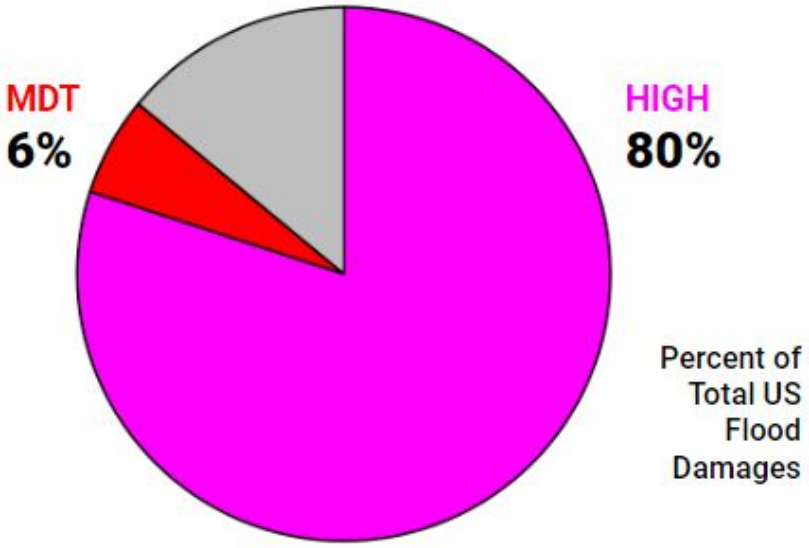
WPC High Risk Days are a BIG DEAL

High Risks are only issued by WPC on ~4% of days, but "High Risk Days" have accounted[1] for:

1/3 of ALL Flood-related **Fatalities**

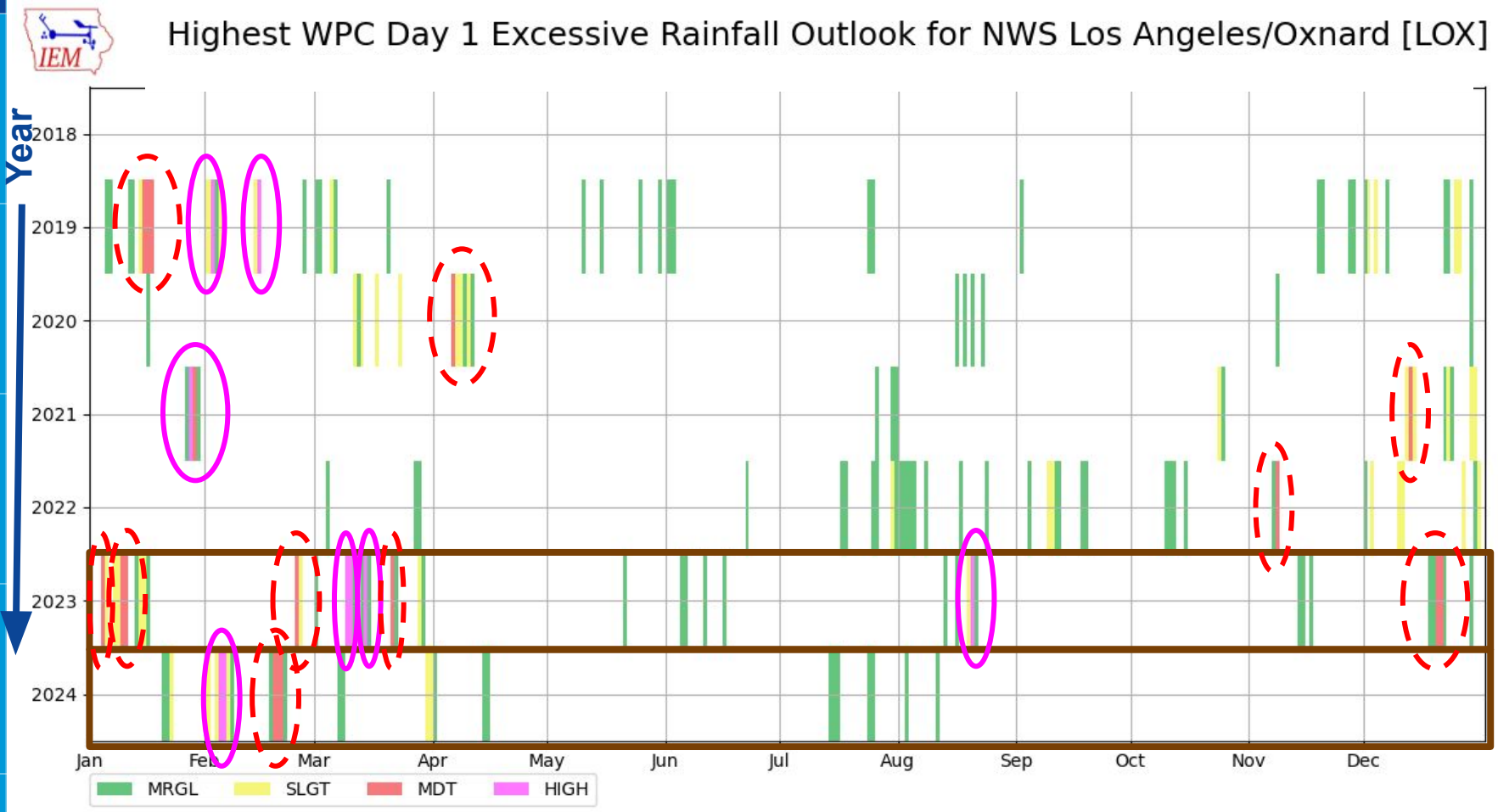


4/5 of ALL Flood-related **Damages**

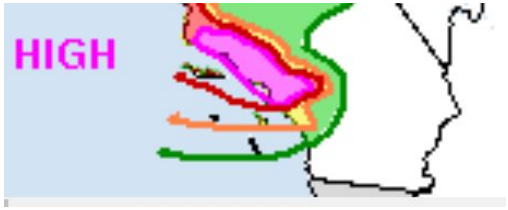


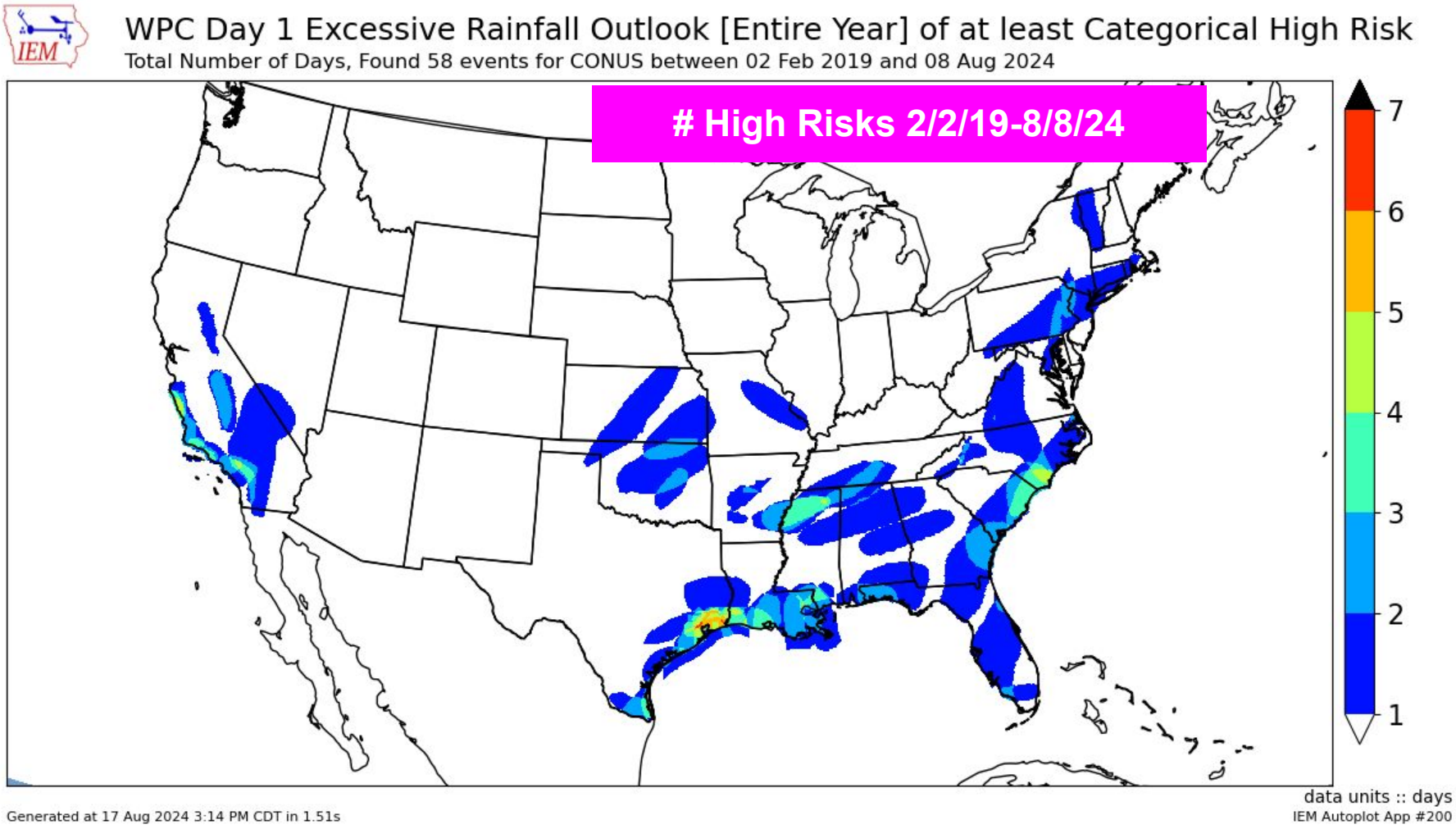
[1] From 2010 to 2022. Includes flood, flash flood, heavy rain, and debris flow Storm Data. Excludes Oso, WA landslide which occurred well after rainfall and on a sunny day.

HIGH RISKS and MODERATE RISKS *(Potential Flood Disasters)* from the Weather Prediction Center for **NWS LA/Oxnard Area**

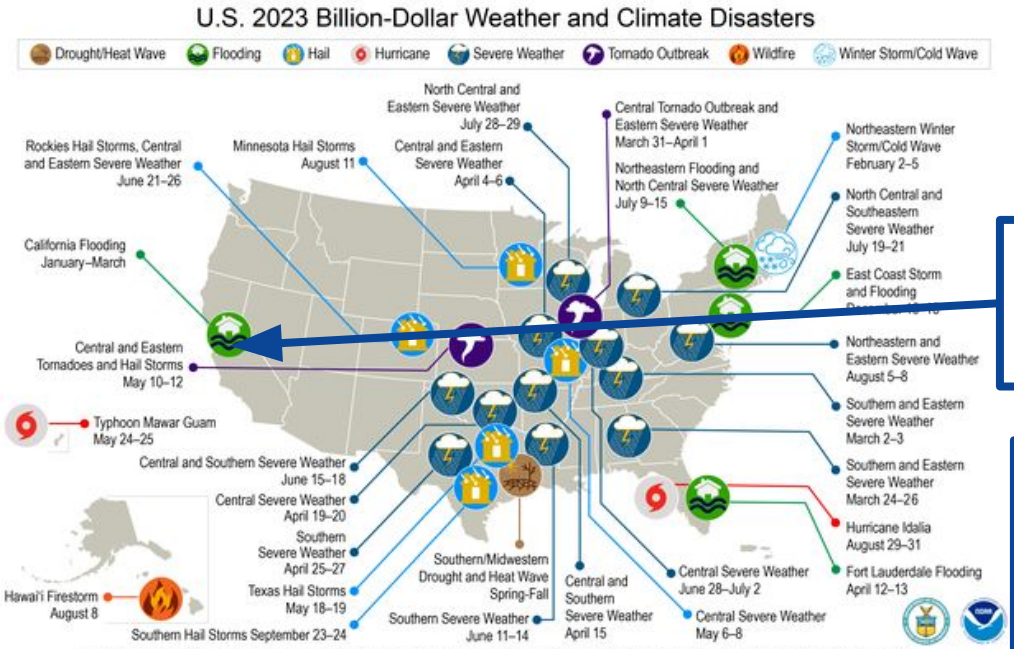


WPC **HIGH RISK** Counts Map *(Potential Flood Disasters)*





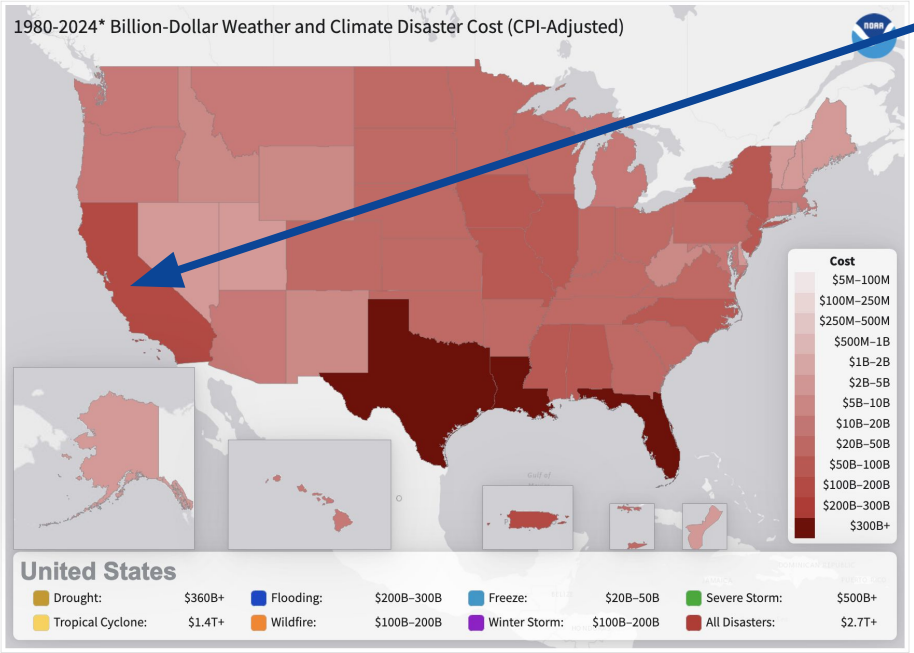
California is a Focus for Billion-Dollar Weather & Climate Disasters!

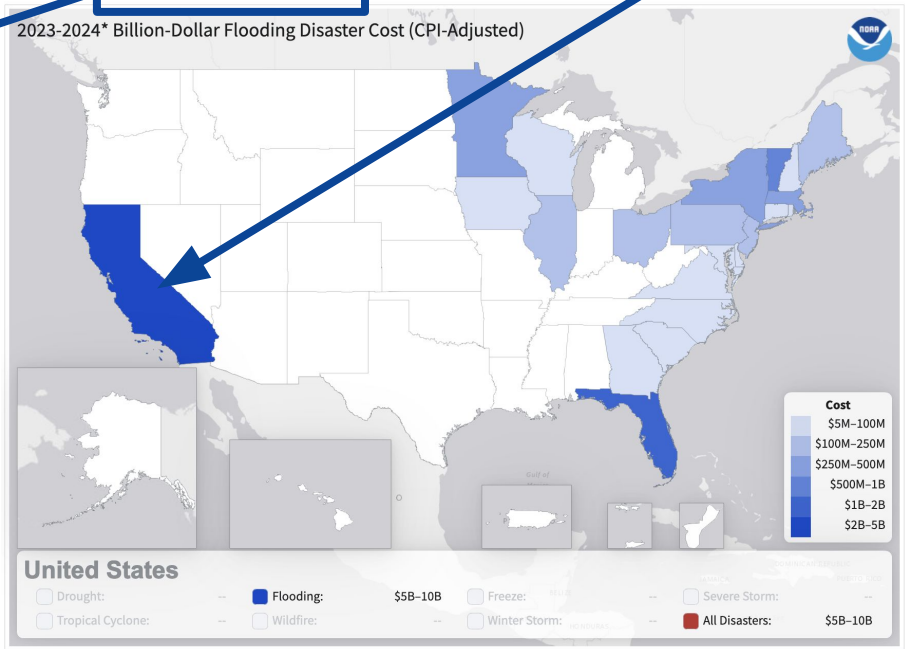


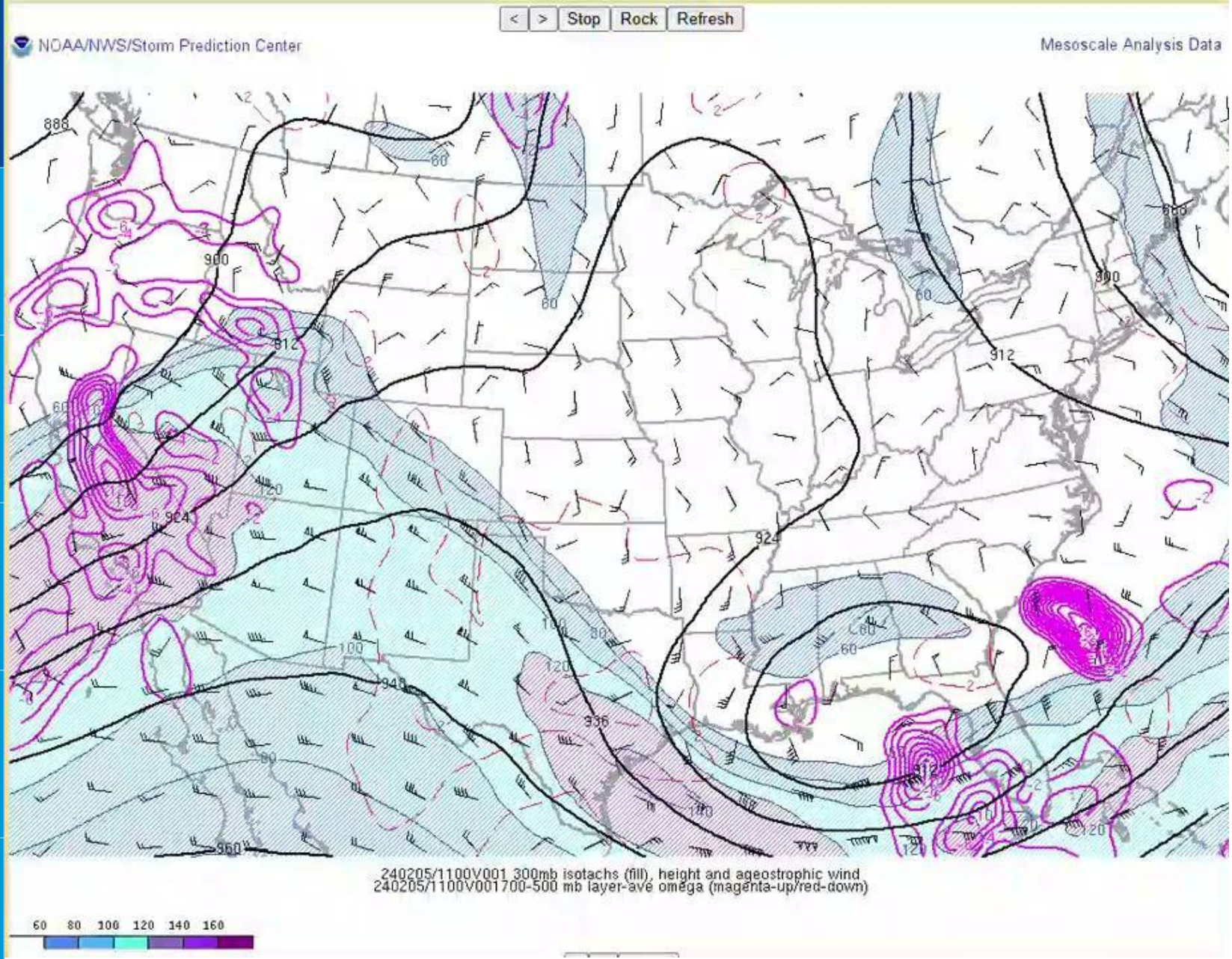
Billion-Dollar Weather & Climate Disasters in 2023

Billion-Dollar Weather and Climate Disaster Cost 1980-2024

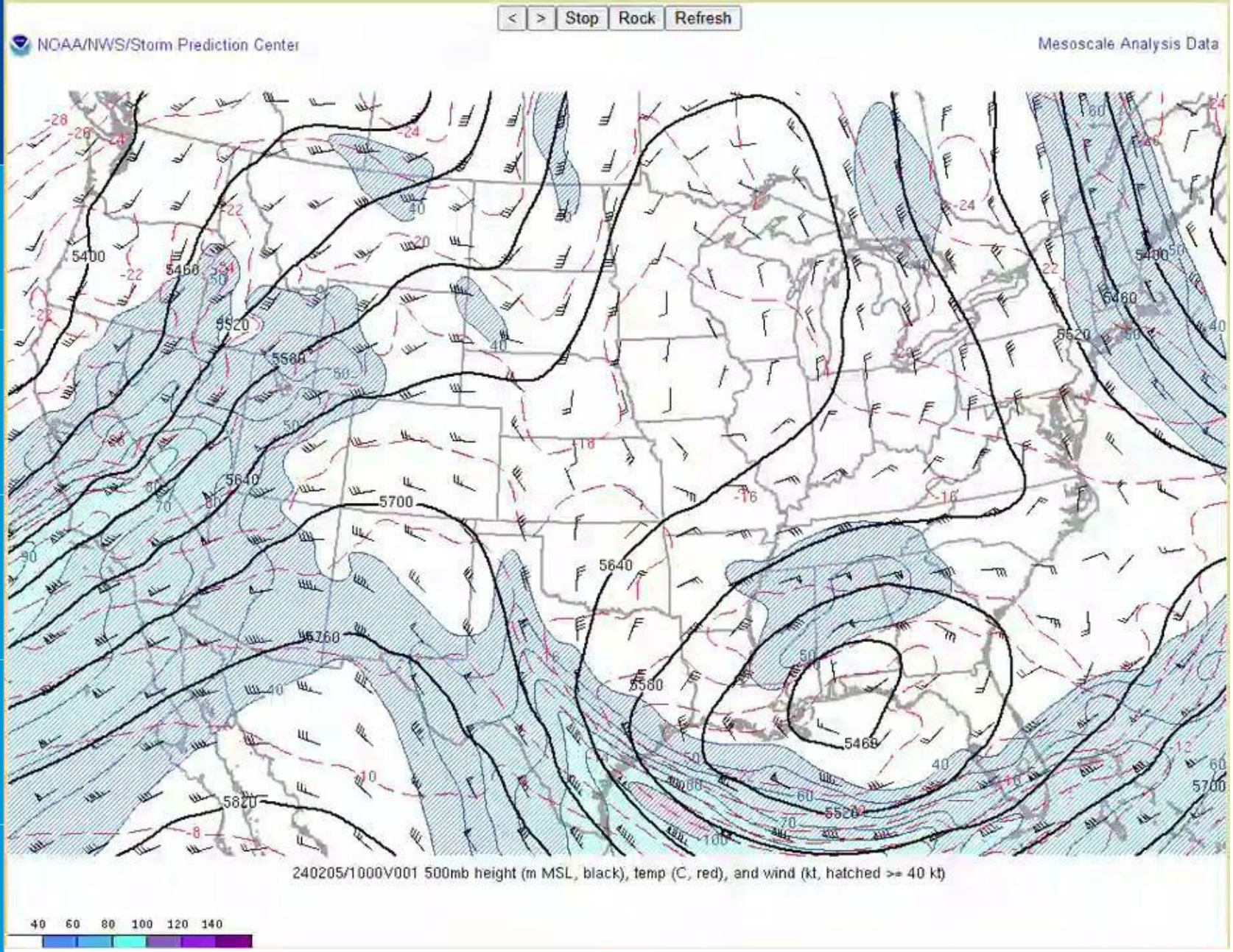
Billion-Dollar Flooding Disaster Cost 2023-2024







Credit: Archive National Sector SPC Hourly Mesoscale Analysis, 2/4/24-2/6/24



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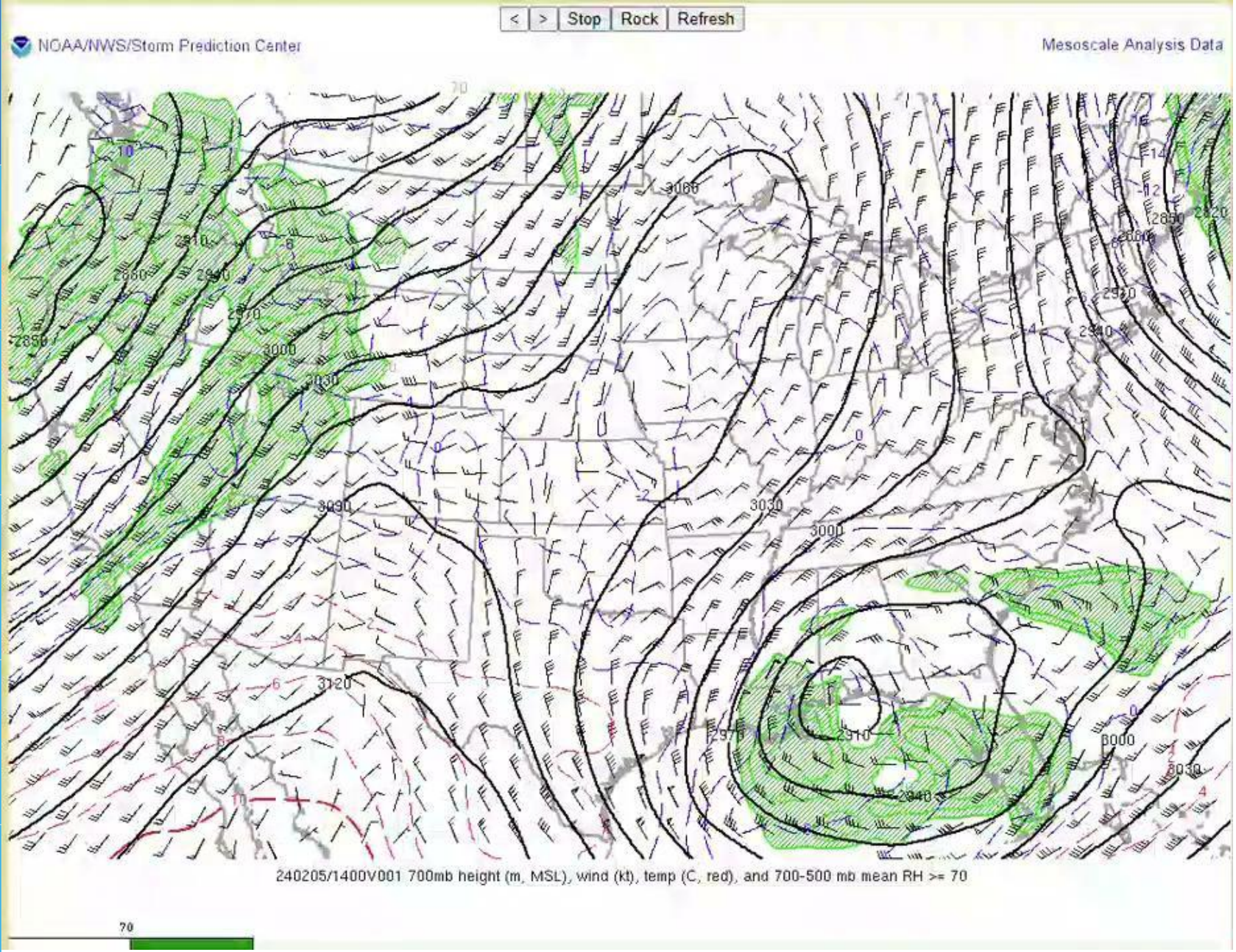

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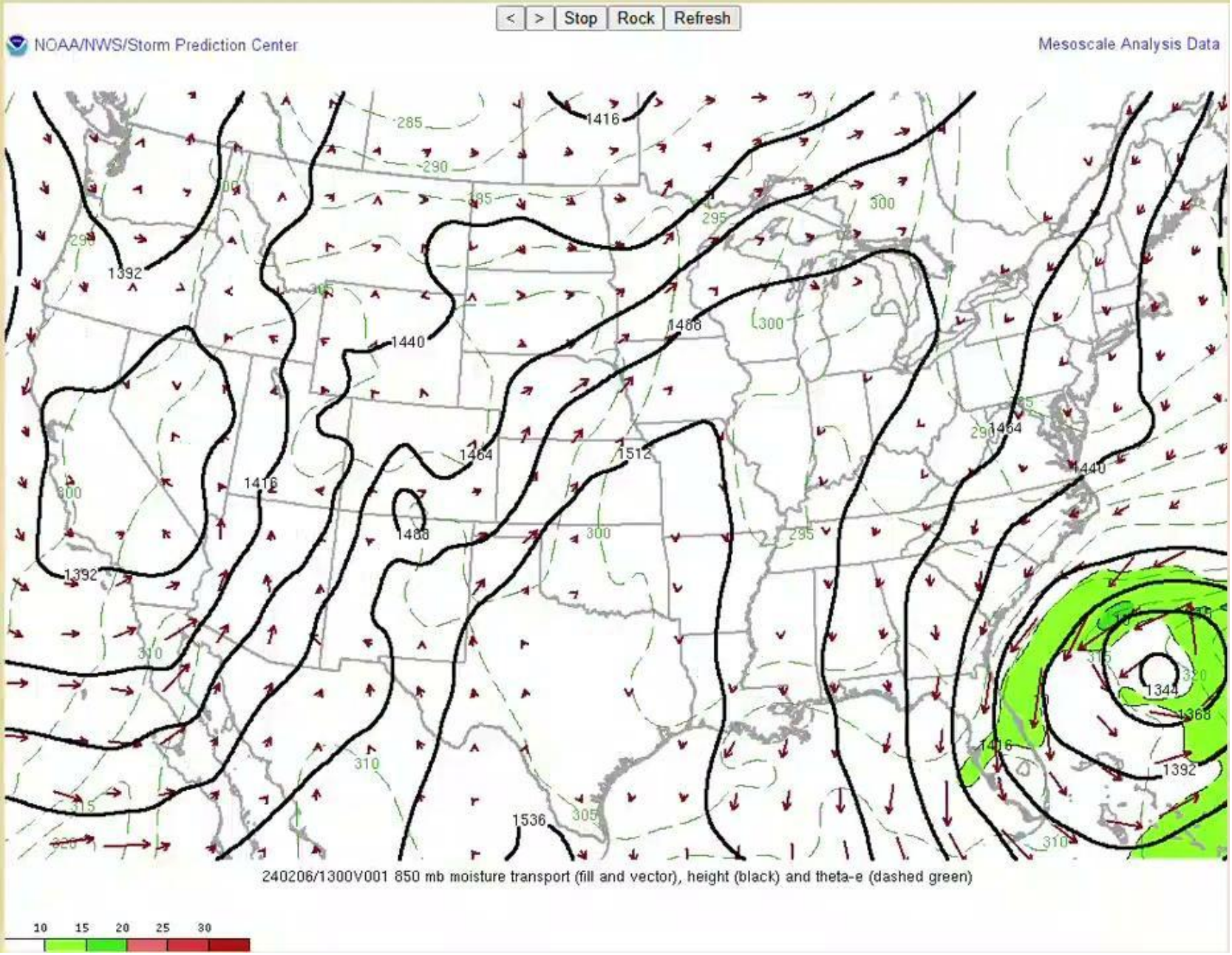

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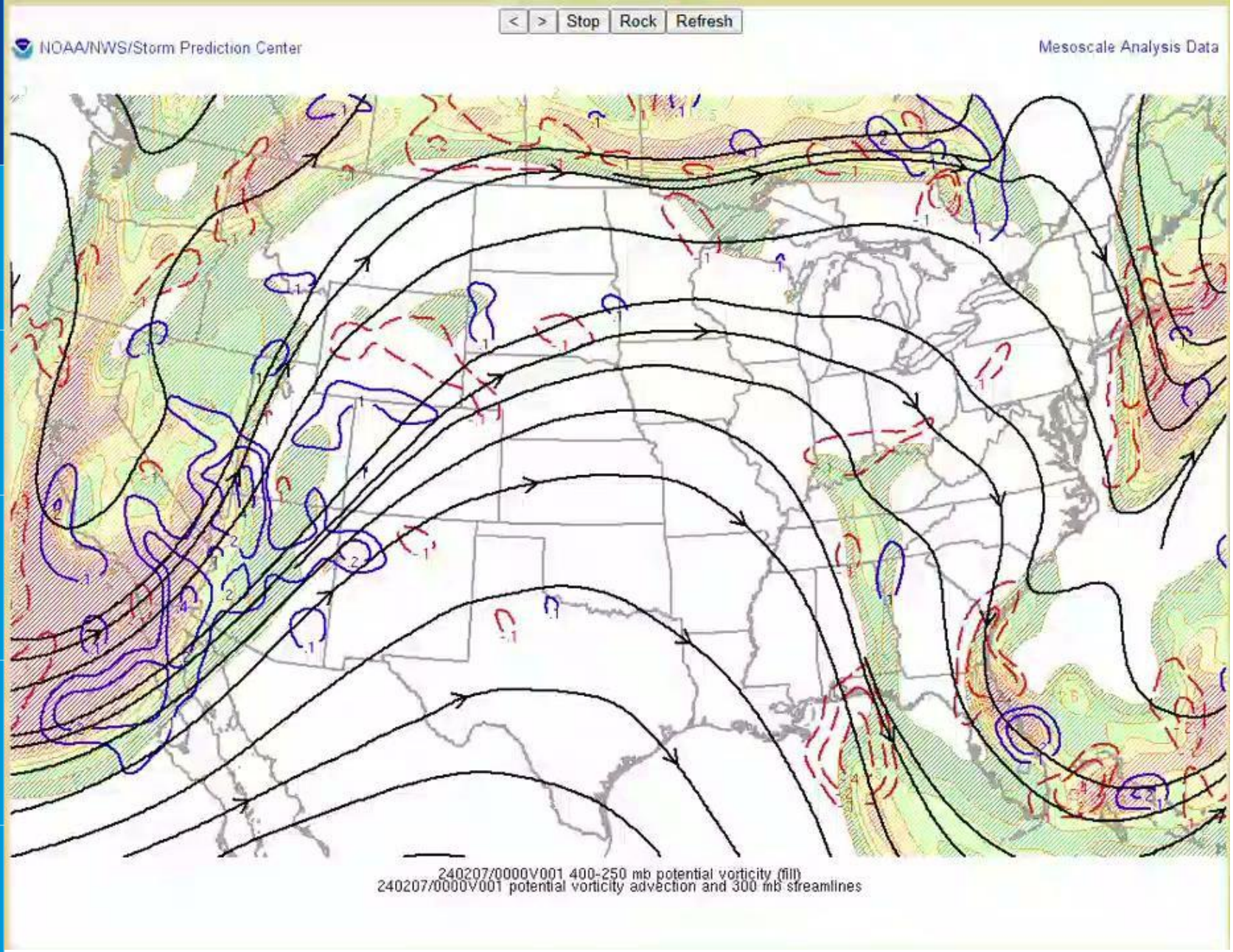

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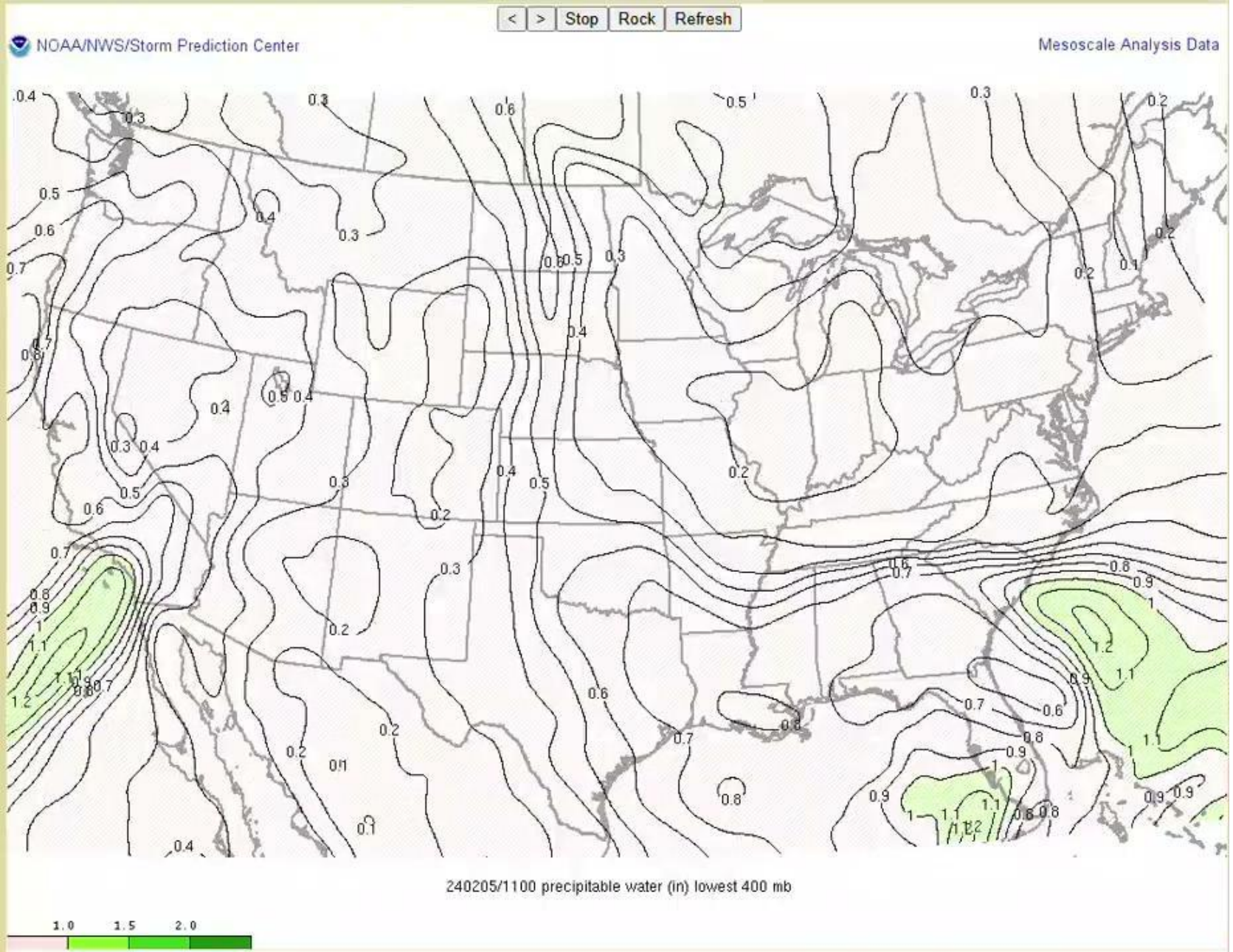

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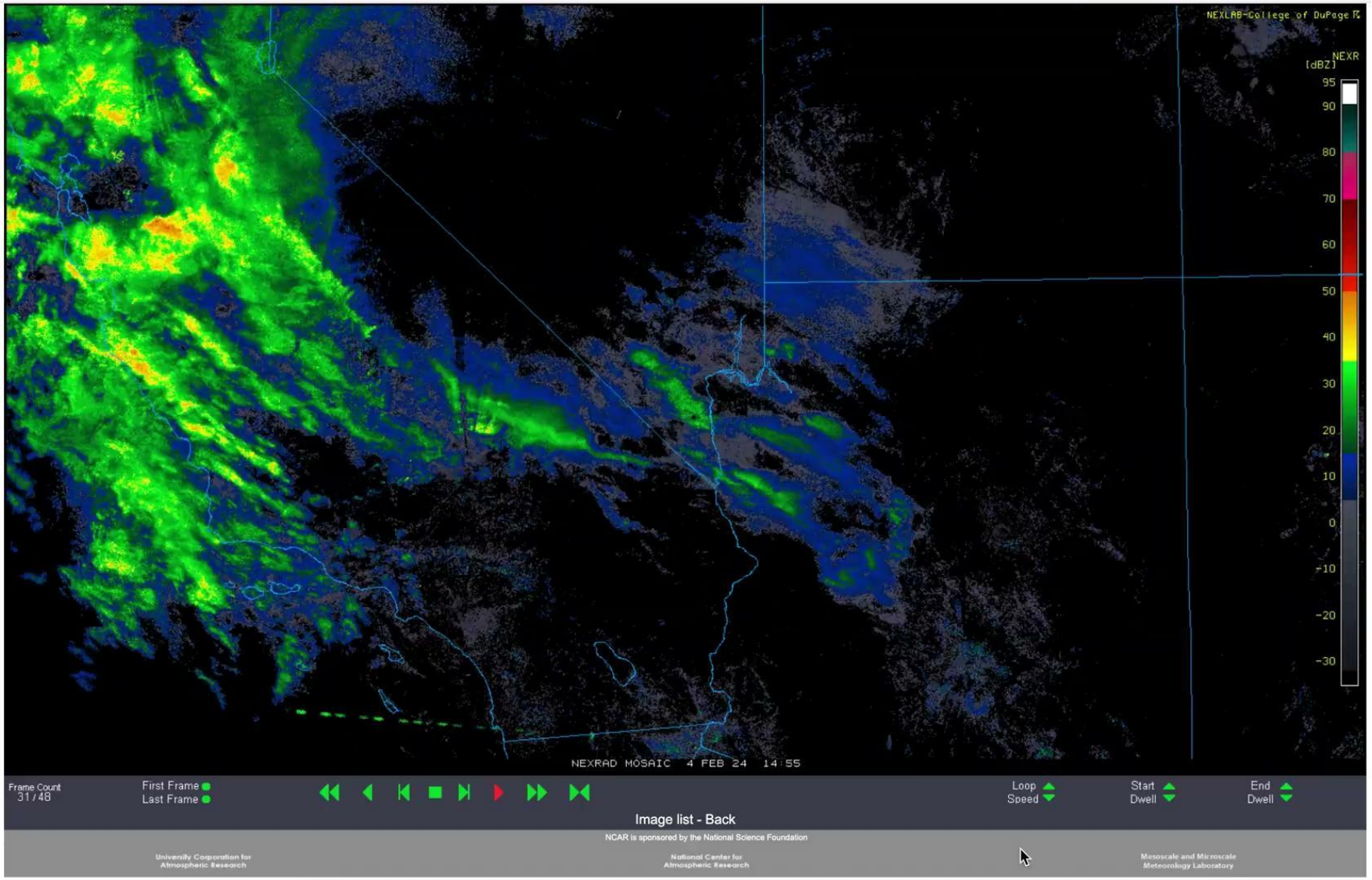

February 4, 2024

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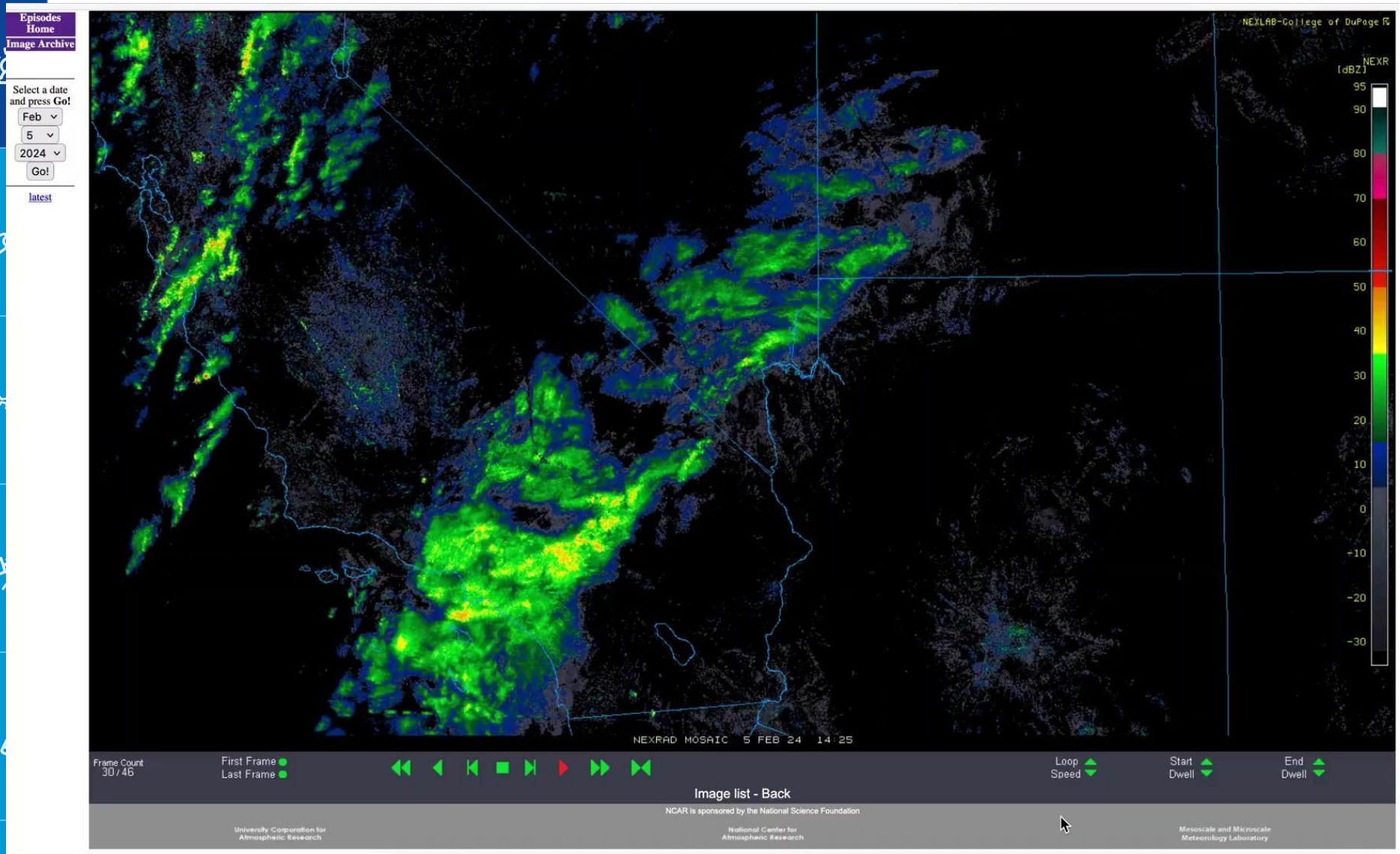

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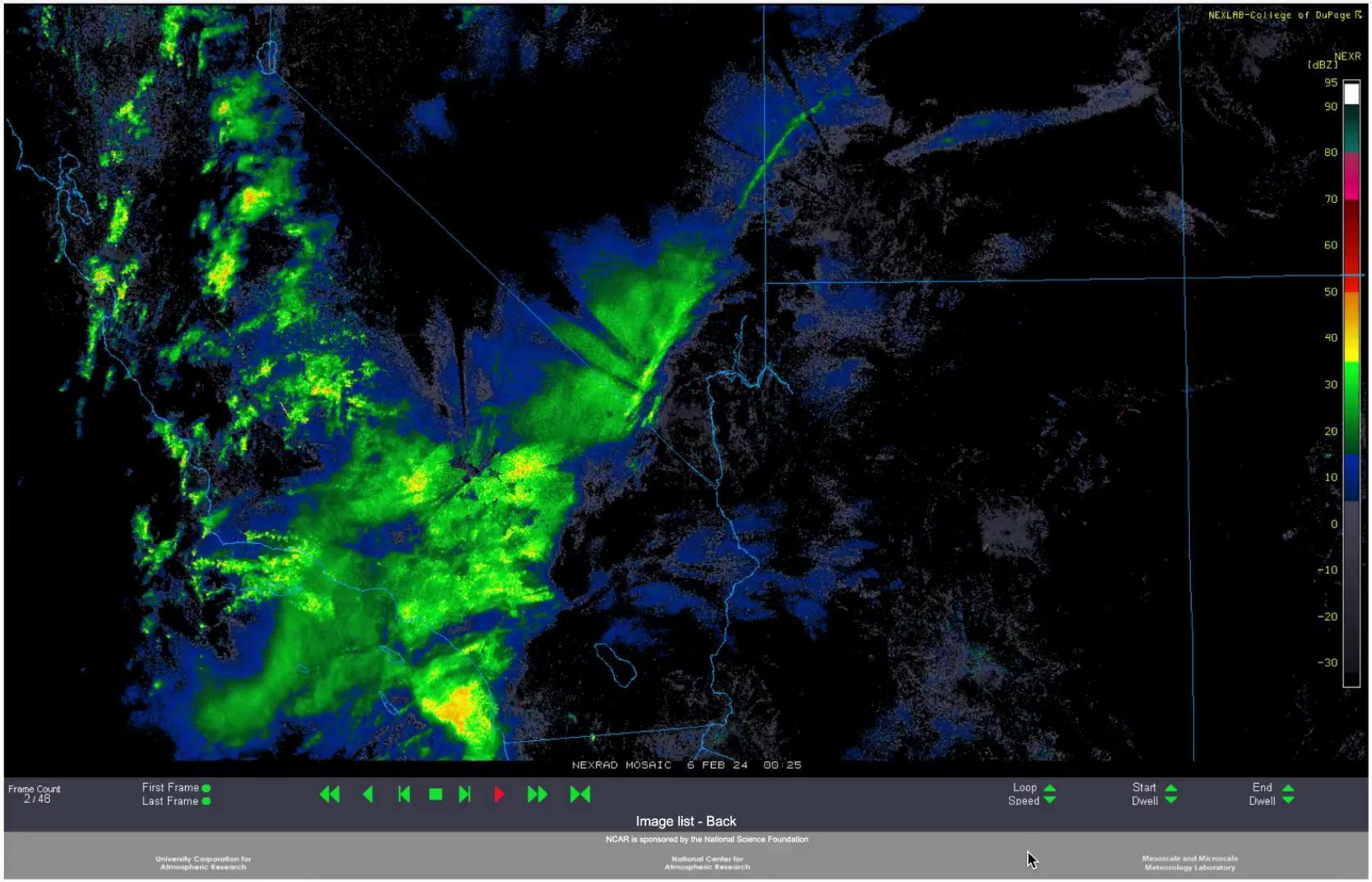

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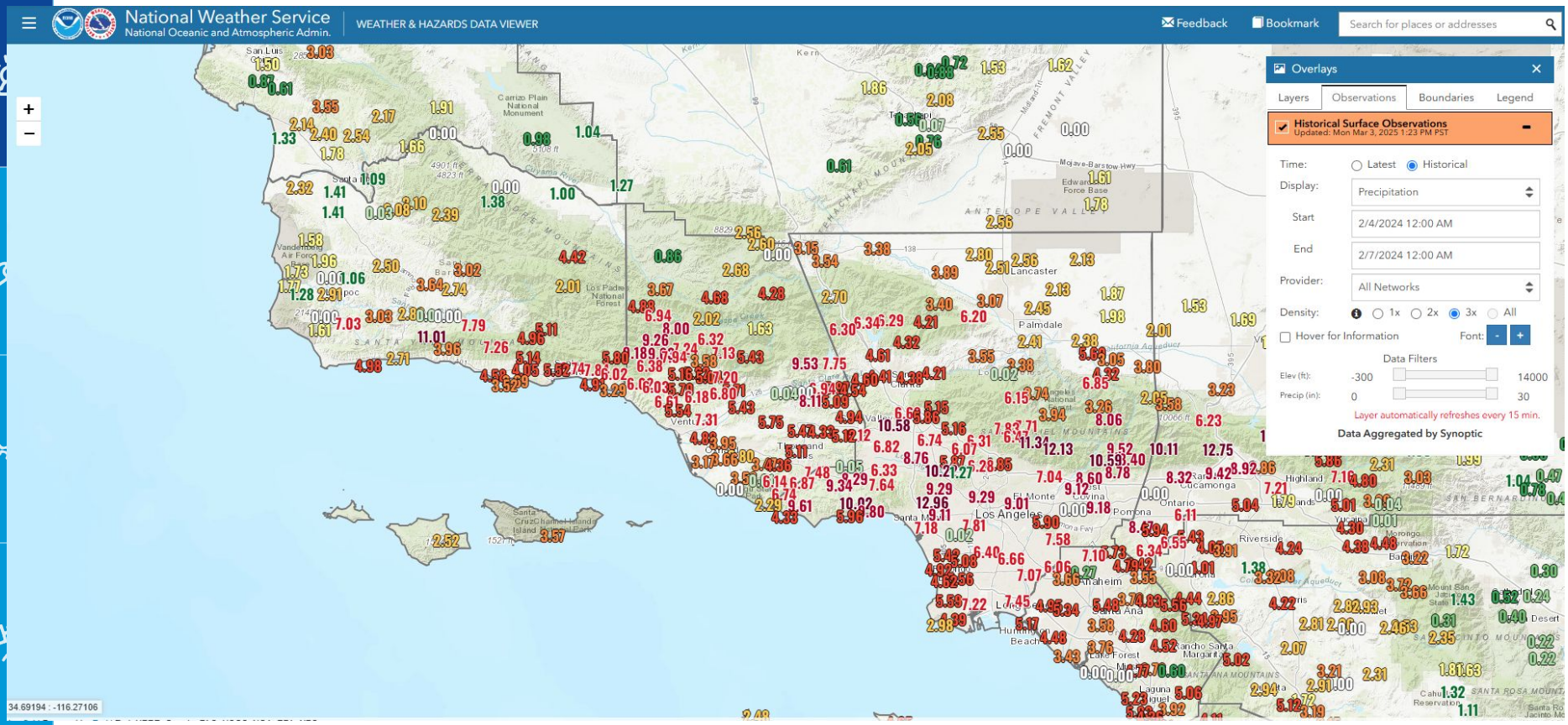

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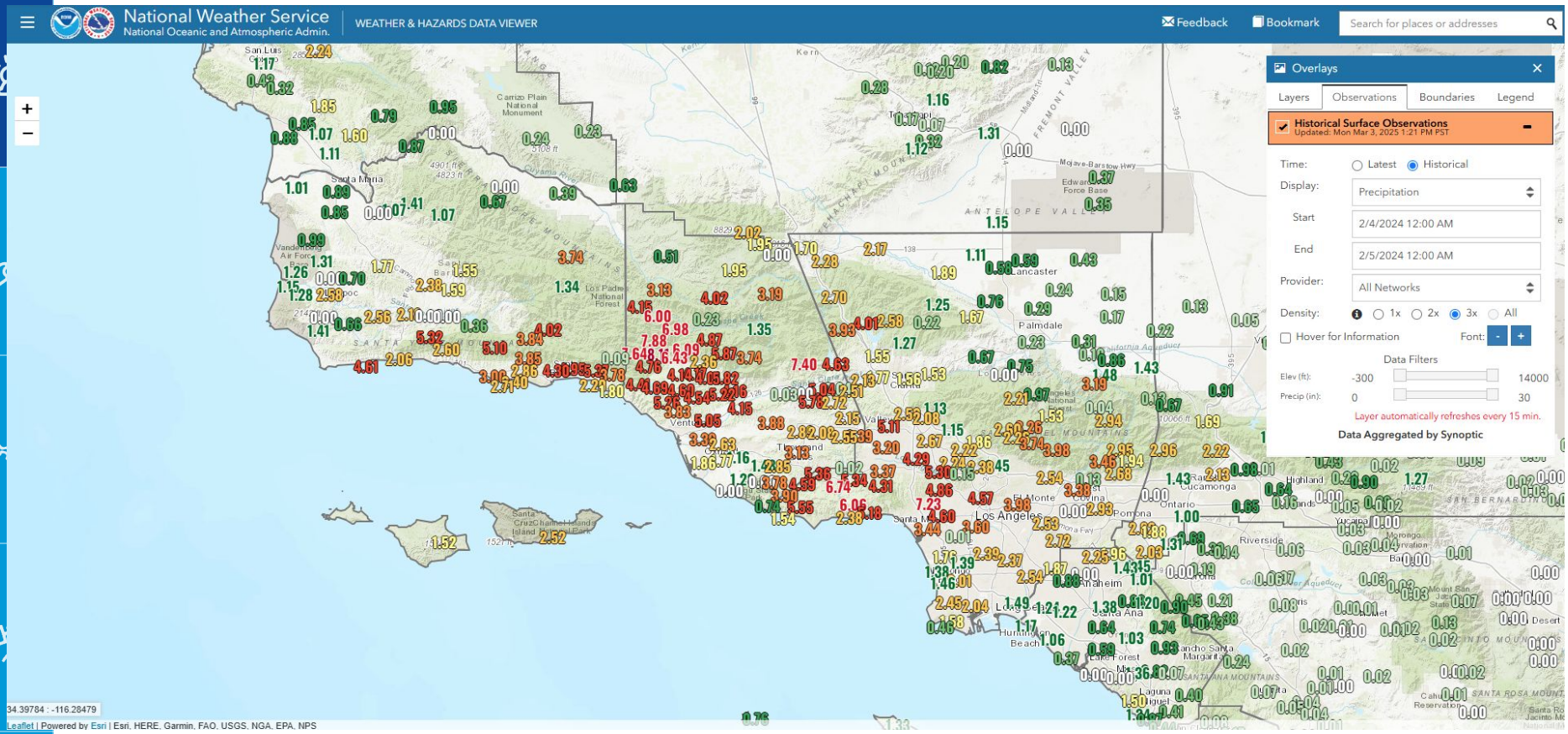

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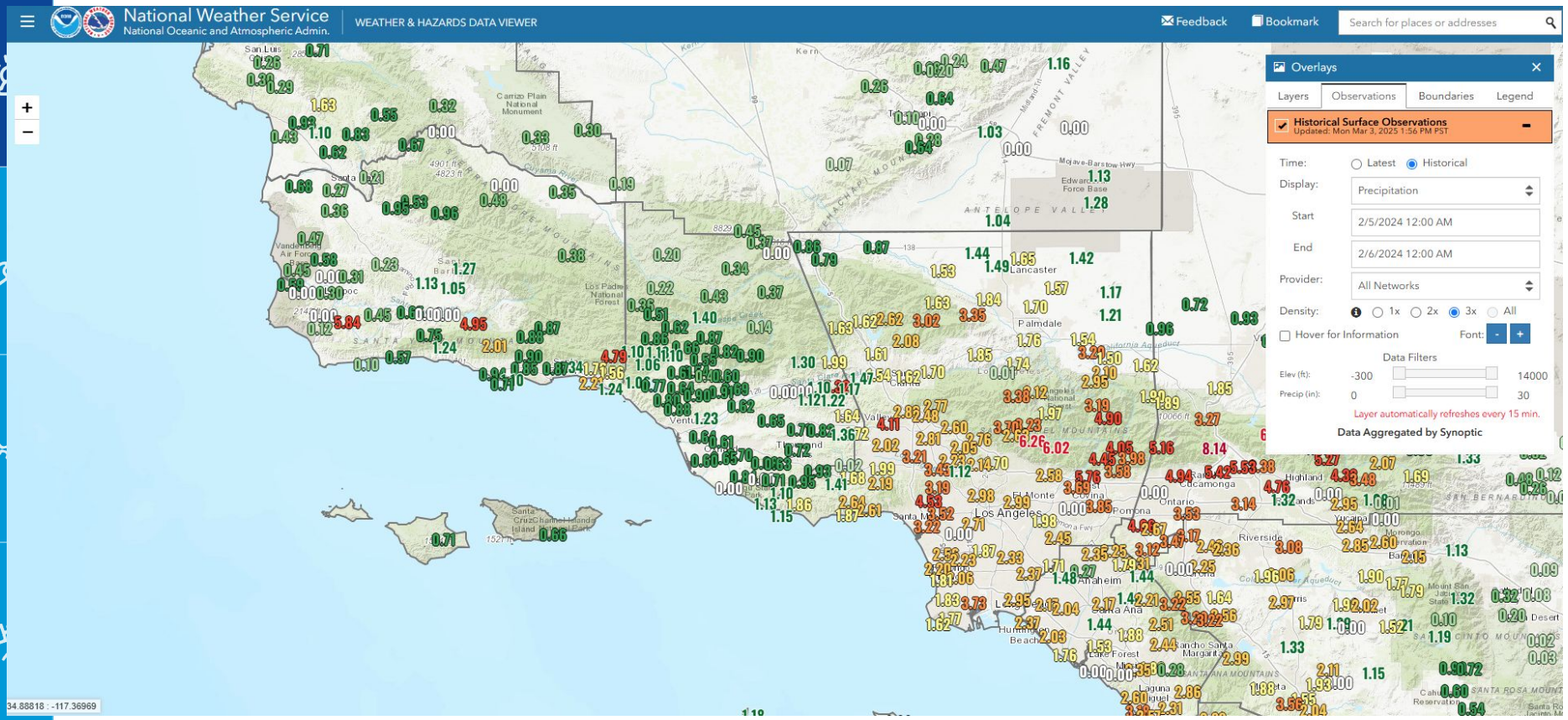

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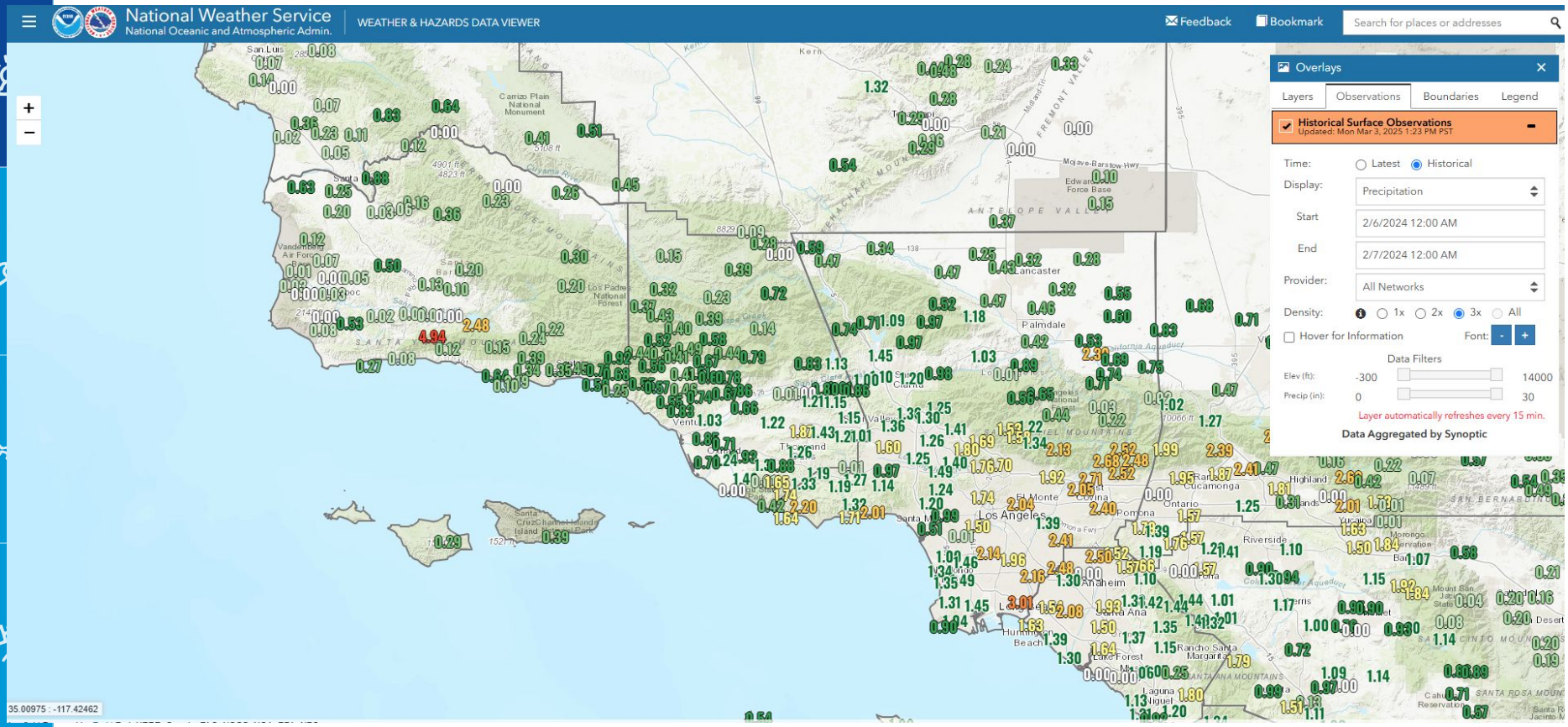

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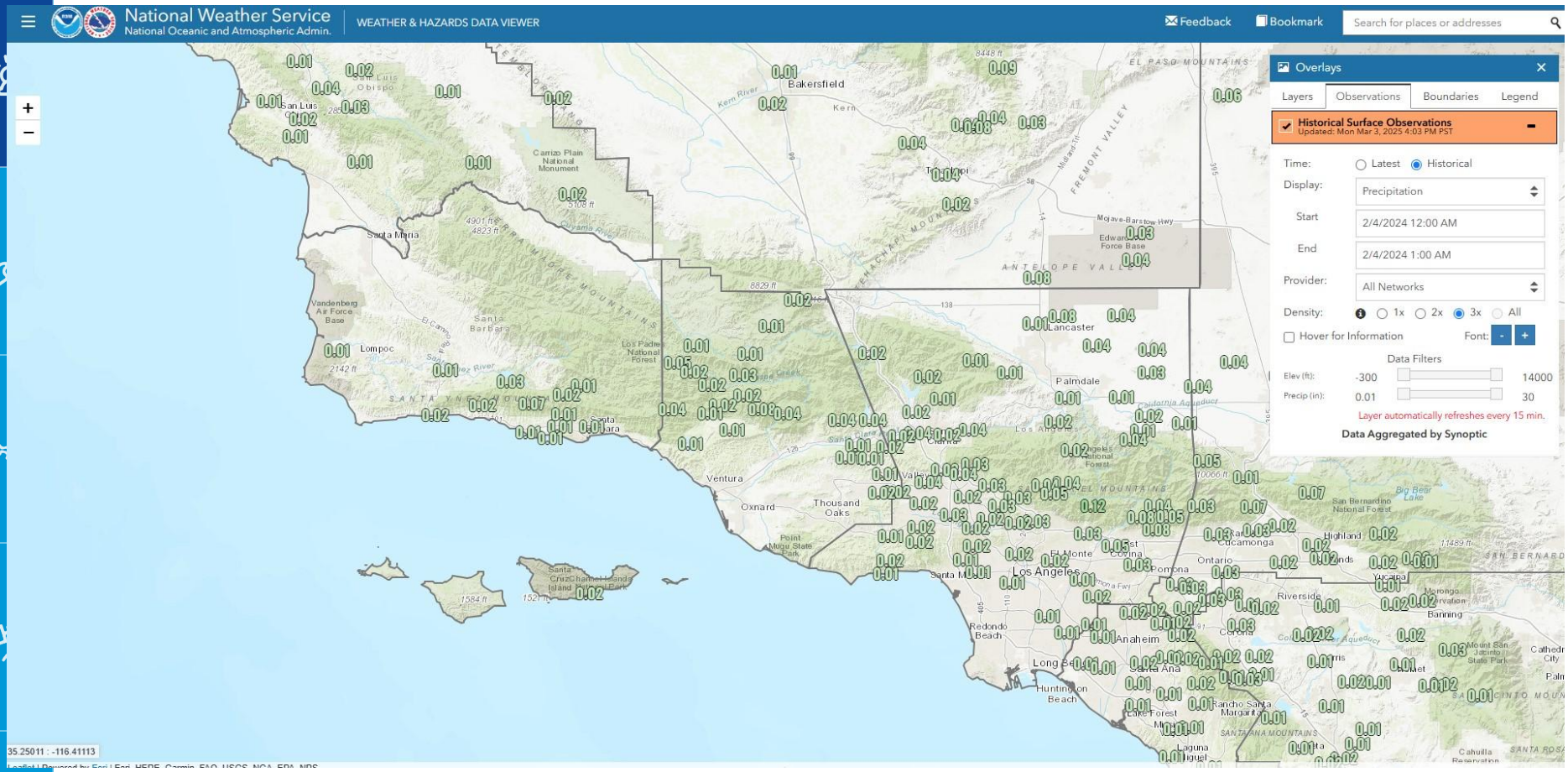
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Boundaries
Legend
Historical Surface Observations
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Precip (in): 0.01 30
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Data Aggregated by Synoptic
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Lompoc
Vandenberg Air Force Base
Santa Barbara
Ventura
Oxnard
Thousand Oaks
Lancaster
Palmdale
Los Angeles
Pomona
Riverside
Anaheim
Long Beach
Santa Ana
Huntington Beach
Redondo Beach
Ontario
Cucamonga
Banning
Edwards Air Force Base
Mojave-Barstow Hwy
Carrizo Plain National Monument
Los Padres National Forest
San Bernardino National Forest
Big Bear Lake
Point Mugu State Park
Santa Cruz Island
Rancho Santa Margarita
Lake Forest
Laguna Niguel
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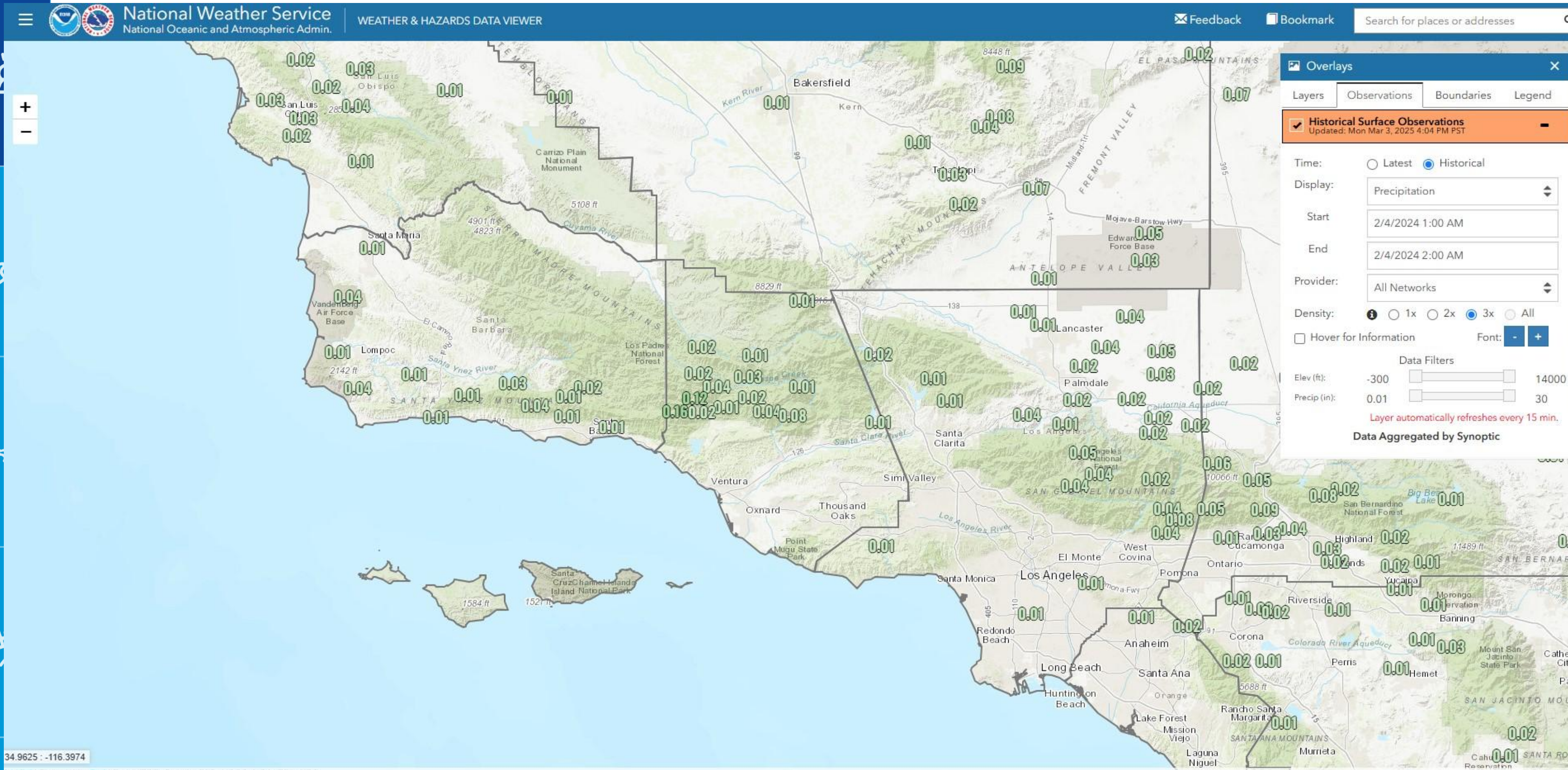
2/4/24 12AM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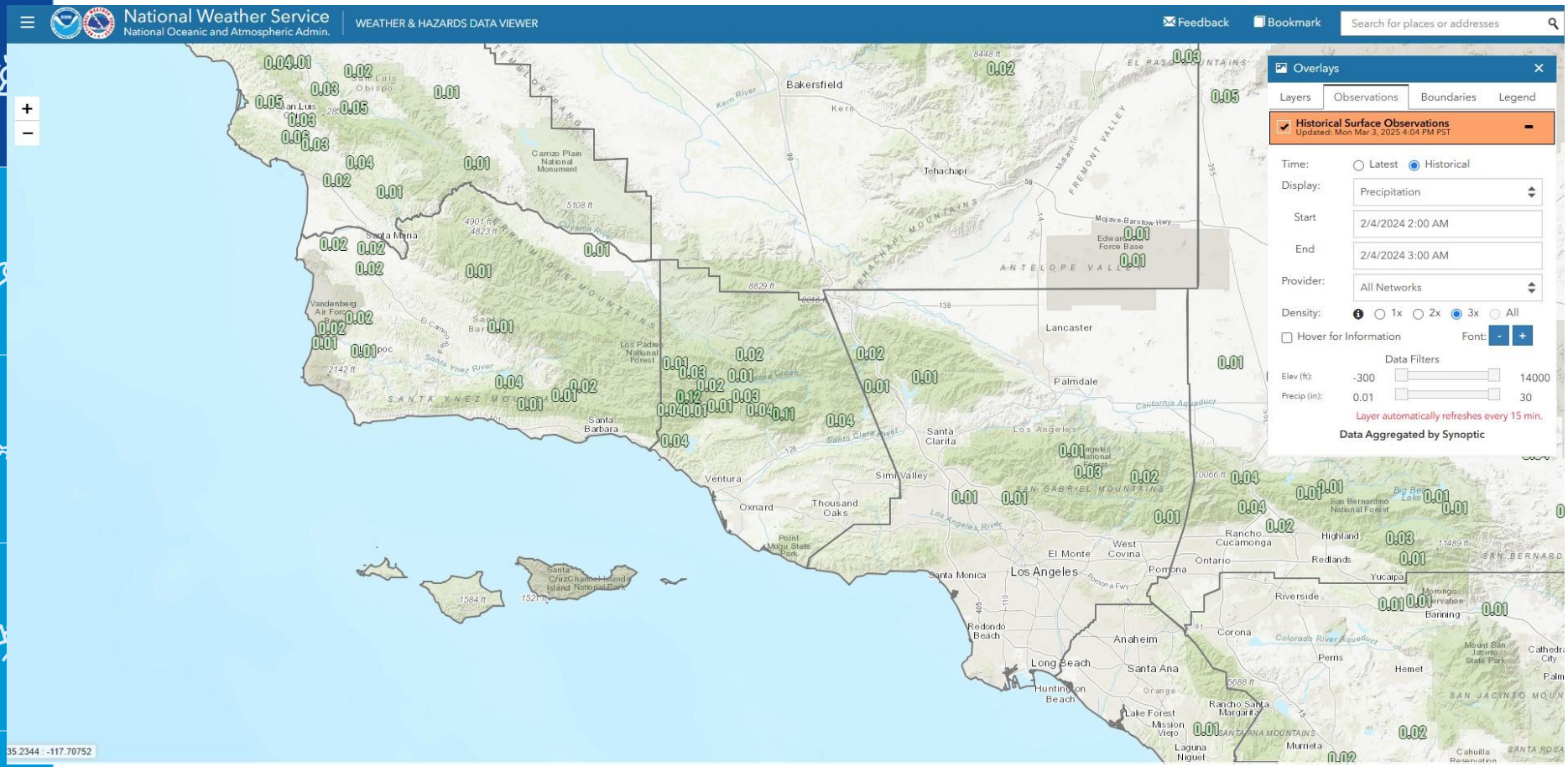
2/4/24 1AM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Palm
Tehachapi
Santa Maria
Vandenberg Air Force Base
Edwards Air Force Base
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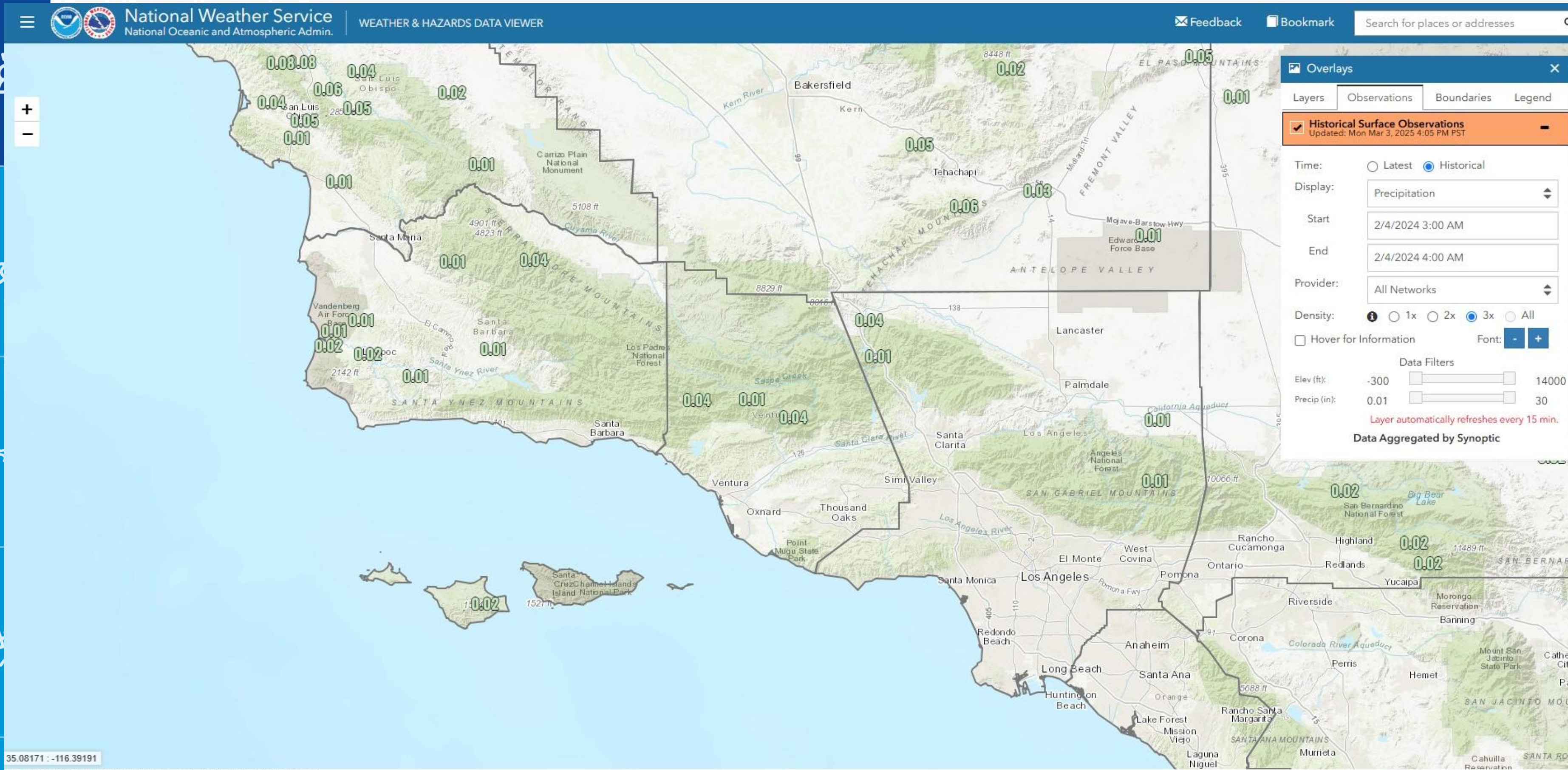
San Bernardino National Forest
Santa Clarita
Rancho Cucamonga
Highland
El Monte
West Covina
Redondo Beach
Huntington Beach
Lake Forest
Mission Viejo
Laguna Niguel
Rancho Santa Margarita
Cahuilla Reservation
Santa Cruz Island
Santa Rosa Island
Point Mugu State Park
Morongo Reservation
Mount San Jacinto State Park
35.2344 : -117.70752

2/4/24 2AM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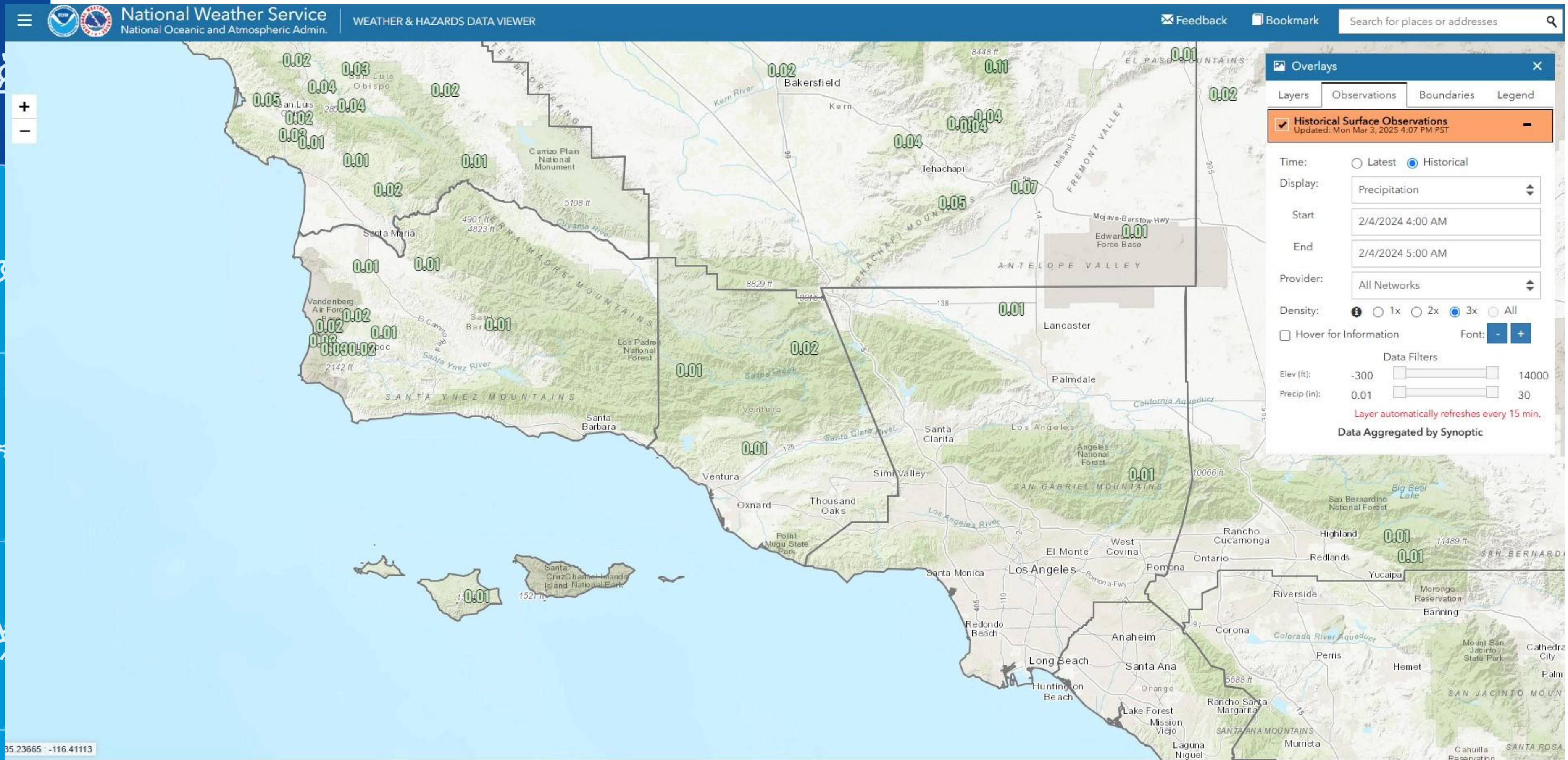
Hemet
Banning
Lake Forest
Mission Viejo
Laguna Niguel
Murrieta
ANTELOPE VALLEY
SANTA YNEZ MOUNTAINS
SAN GABRIEL MOUNTAINS
35.08171 : -116.39191

2/4/24 3AM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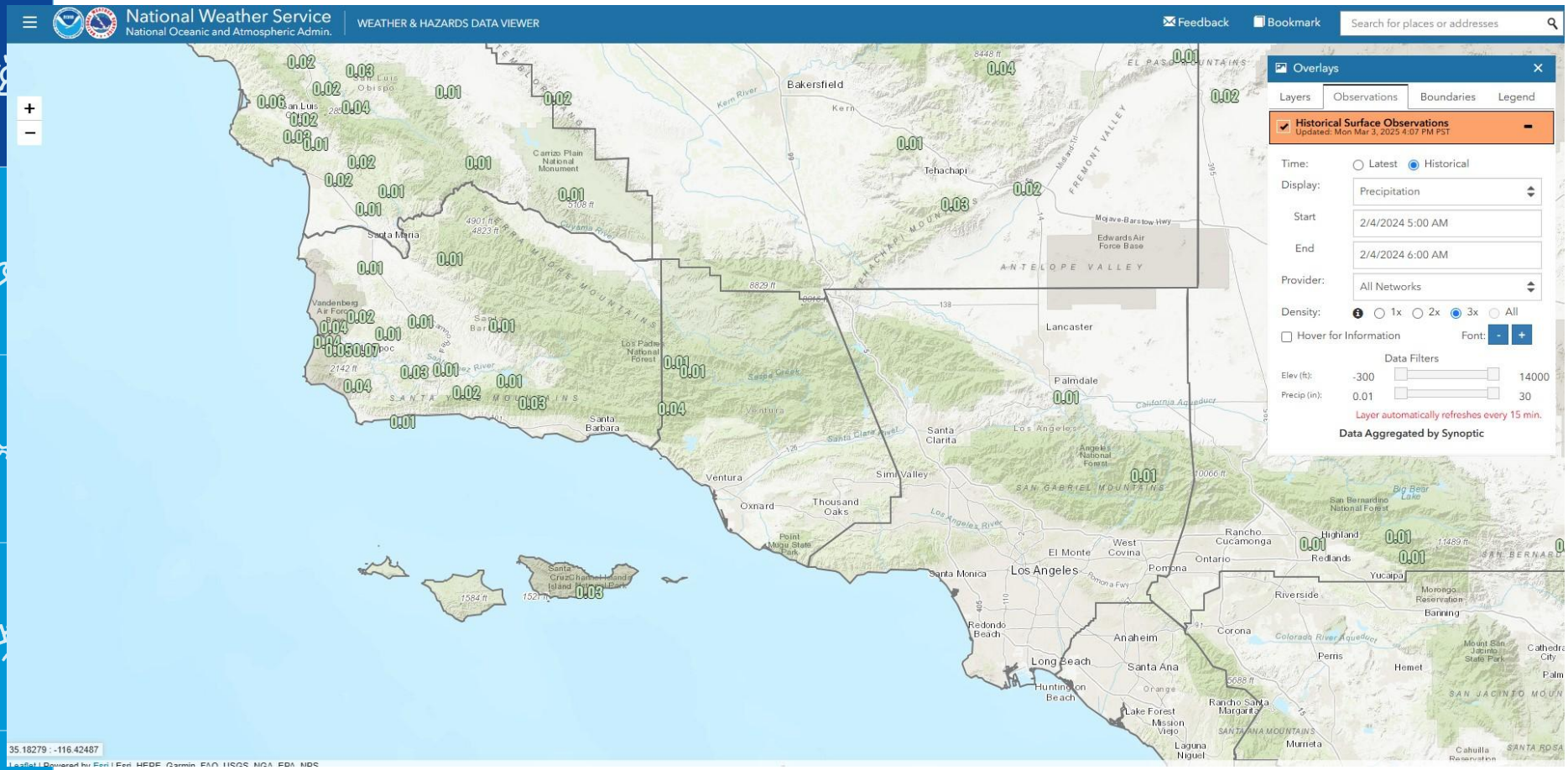
2/4/24 4AM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Corona
Perris
Hemet
Lake Forest
Mission Viejo
Laguna Niguel
Murrieta
Huntington Beach
Redondo Beach
El Monte
West Covina
Highland
Banning
Edwards Air Force Base
Mojave-Barstow Hwy
ANTELOPE VALLEY
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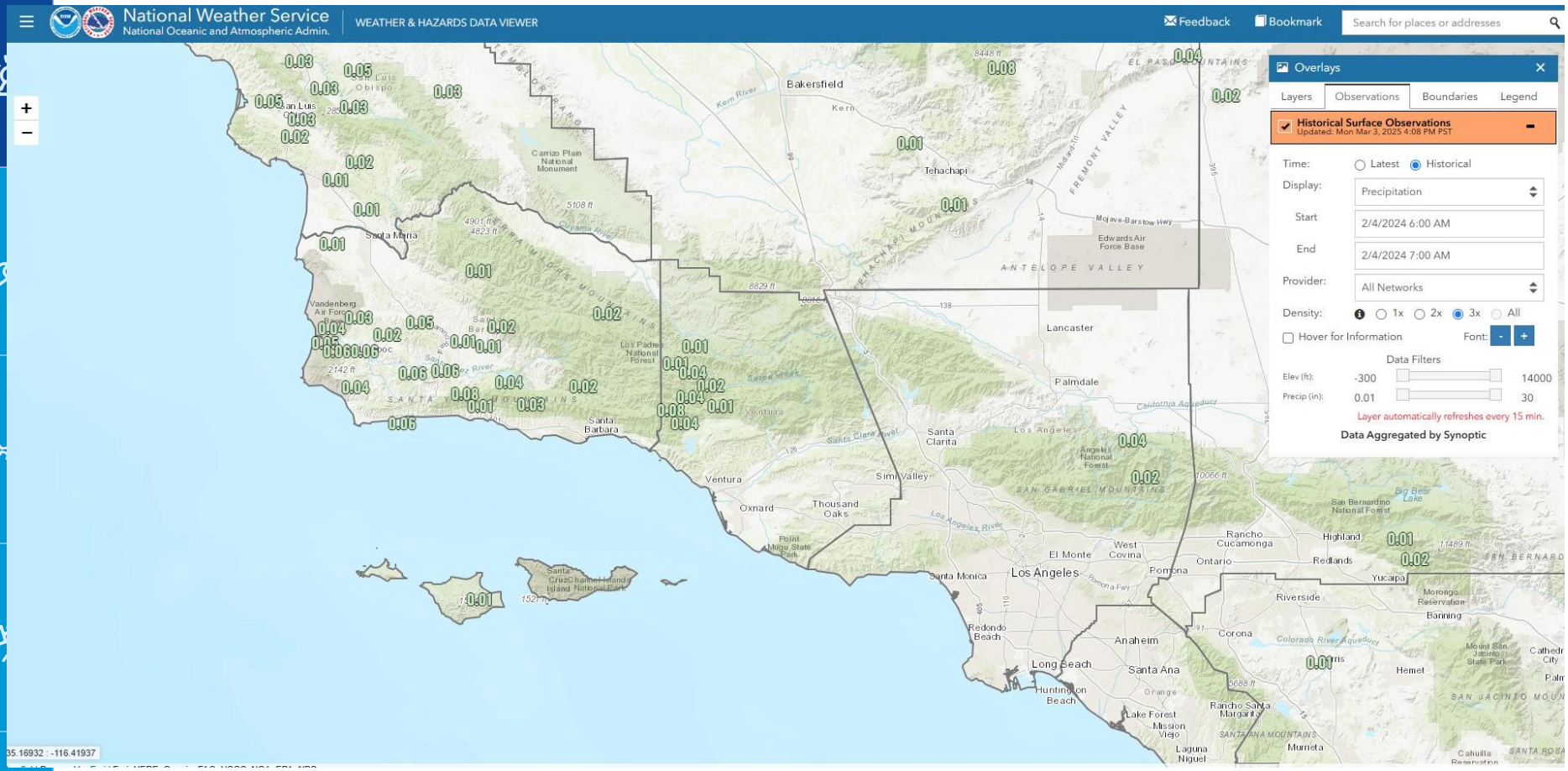
SANTA YNEZ MOUNTAINS
SANTA ANA MOUNTAINS
35.18279 : -116.42487

2/4/24 5AM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Legend
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Updated: Mon Mar 3, 2025 4:08 PM PST
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Data Aggregated by Synoptic
Bakersfield
Kern
Tehachapi
Mojave-Barstow Hwy
Edwards Air Force Base
ANTELOPE VALLEY
Lancaster
Palmdale
Santa Maria
Vandenberg Air Force Base
Santa Barbara
Ventura
Oxnard
Thousand Oaks
Simi Valley
Santa Clarita
Los Angeles
Santa Monica
El Monte
West Covina
Pomona
Ontario
Rancho Cucamonga
Redlands
Yucaipa
Riverside
Corona
Anaheim
Long Beach
Santa Ana
Huntington Beach
Redondo Beach
Lake Forest
Mission Viejo
Laguna Niguel
Rancho Santa Margarita
Murrieta
Hemet
Banning
Beaumont
Highland
San Bernardino National Forest
Angeles National Forest
Los Padres National Forest
Carrizo Plain National Monument
Santa Cruz Island
Point Mugu State Park
Big Bear Lake
Mount San Jacinto State Park
Cahuilla Reservation
Morongo Reservation
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN JACINTO MOUNTAINS
SANTA ANA MOUNTAINS
TEHACHAPI MOUNTAINS
FREMONT VALLEY
EL PASO MOUNTAINS
Kern River
Santa Clara River
Los Angeles River
Santa Ynez River
Sespe Creek
Ventura River
Colorado River Aqueduct
California Aqueduct
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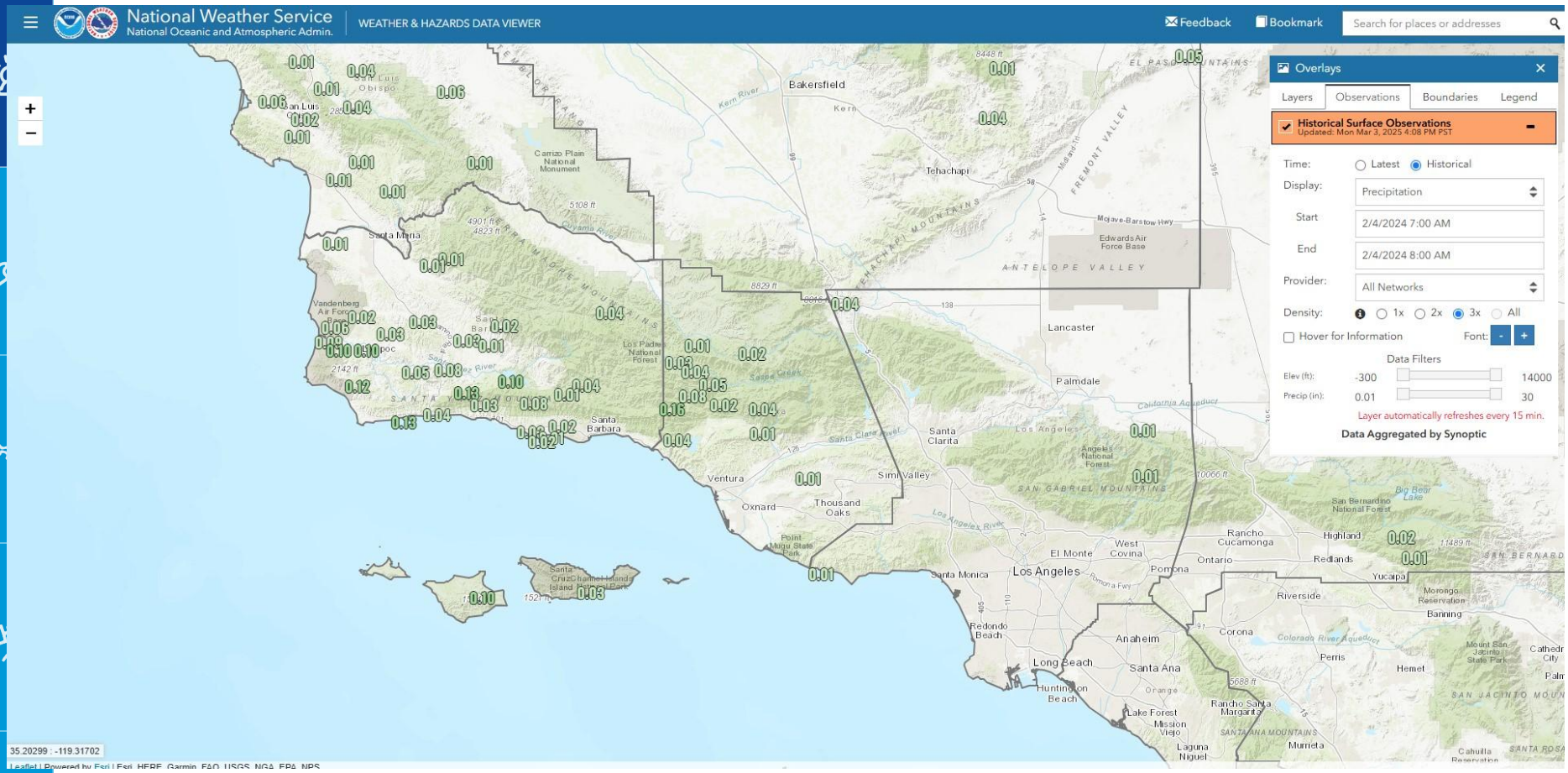
2/4/24 6AM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Legend
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Tehachapi
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Palmdale
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Ventura
Oxnard
Thousand Oaks
Simi Valley
Santa Clarita
Los Angeles
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Long Beach
Anaheim
Santa Ana
Pomona
Riverside
Corona
Ontario
Redlands
Rancho Cucamonga
El Monte
Redondo Beach
Huntington Beach
Lake Forest
Mission Viejo
Laguna Niguel
Murrieta
Temecula
Hemet
Perris
Banning
Yucaipa
Edwards Air Force Base
ANTELOPE VALLEY
SAN GABRIEL MOUNTAINS
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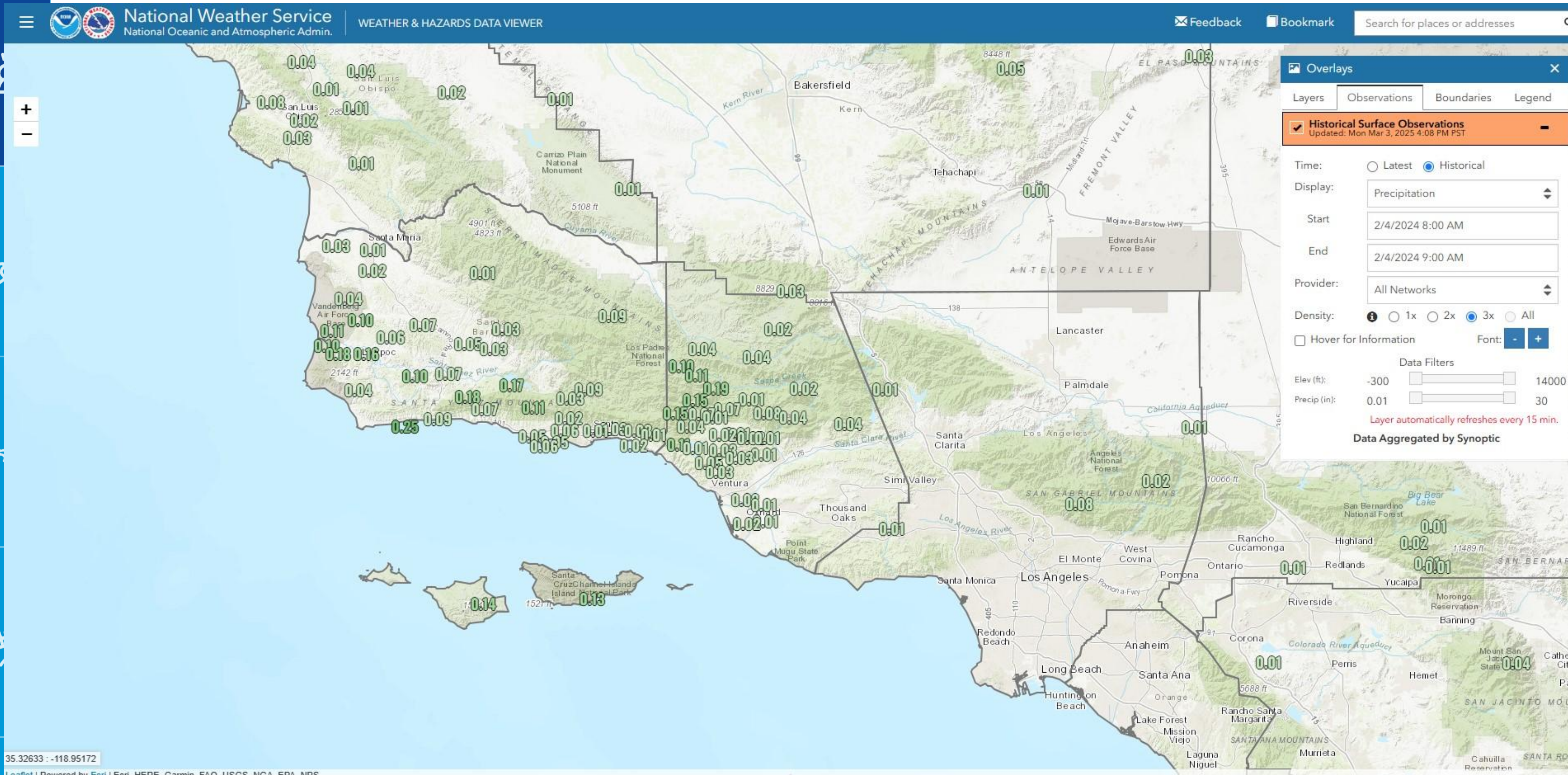
2/4/24 7AM



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Legend
Historical Surface Observations
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Tehachapi
Lancaster
Palmdale
Santa Maria
Ventura
Thousand Oaks
Simi Valley
Santa Clarita
Los Angeles
Santa Monica
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Santa Ana
Riverside
Ontario
Pomona
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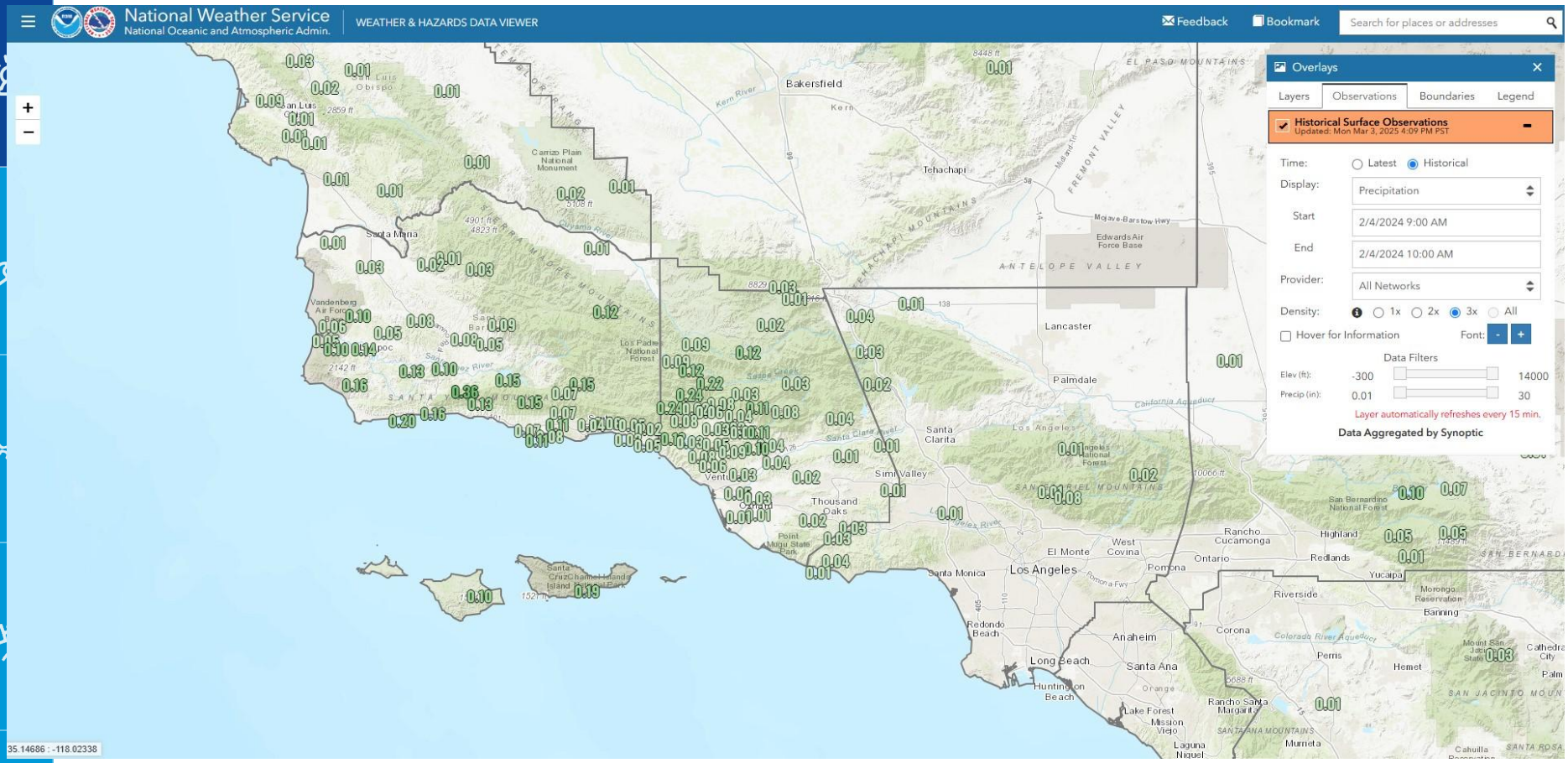
Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

2/4/24 8AM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Data Aggregated by Synoptic
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Palmdale
Santa Maria
Santa Clarita
Simi Valley
Thousand Oaks
Los Angeles
Long Beach
Santa Ana
Anaheim
Riverside
Ontario
Pomona
Rancho Cucamonga
San Bernardino
Redlands
Yucaipa
Corona
Perris
Hemet
Banning
Palm
Tehachapi
Edwards Air Force Base
Vandenberg Air Force Base
Santa Barbara
Santa Monica
Huntington Beach
Lake Forest
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West Covina
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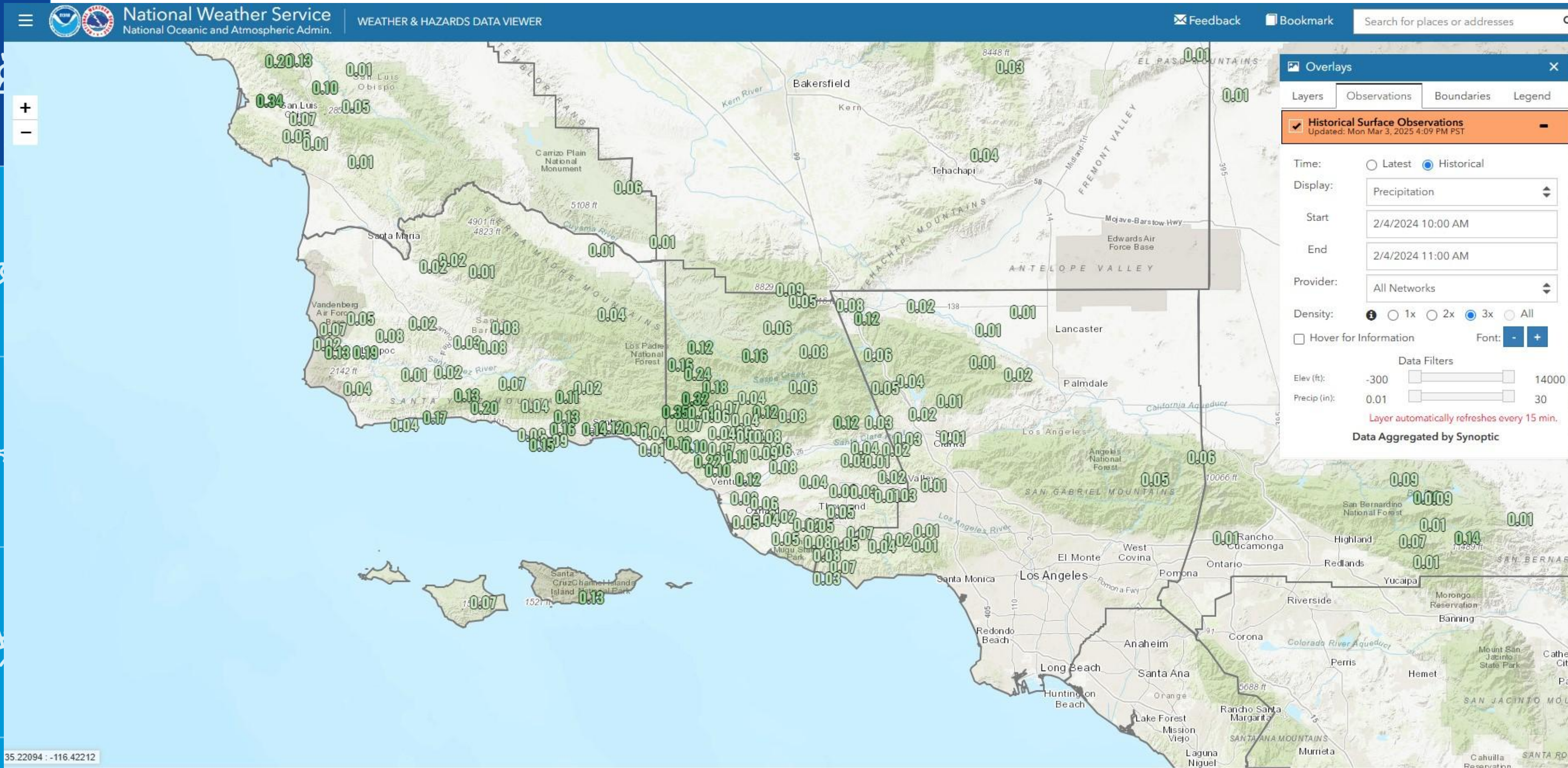
2/4/24 9AM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Observations
Boundaries
Legend
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Updated: Mon Mar 3, 2025 4:09 PM PST
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Latest
Historical
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Data Aggregated by Synoptic
Bakersfield
Tehachapi
Santa Maria
Lancaster
Palmdale
Edwards Air Force Base
ANTELOPE VALLEY
SAN GABRIEL MOUNTAINS
Los Angeles
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El Monte
West Covina
Pomona
Ontario
Rancho Cucamonga
Highland
Redlands
Yucaipa
Riverside
Corona
Anaheim
Santa Ana
Long Beach
Huntington Beach
Redondo Beach
Lake Forest
Mission Viejo
Laguna Niguel
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Cathedral City
Palm
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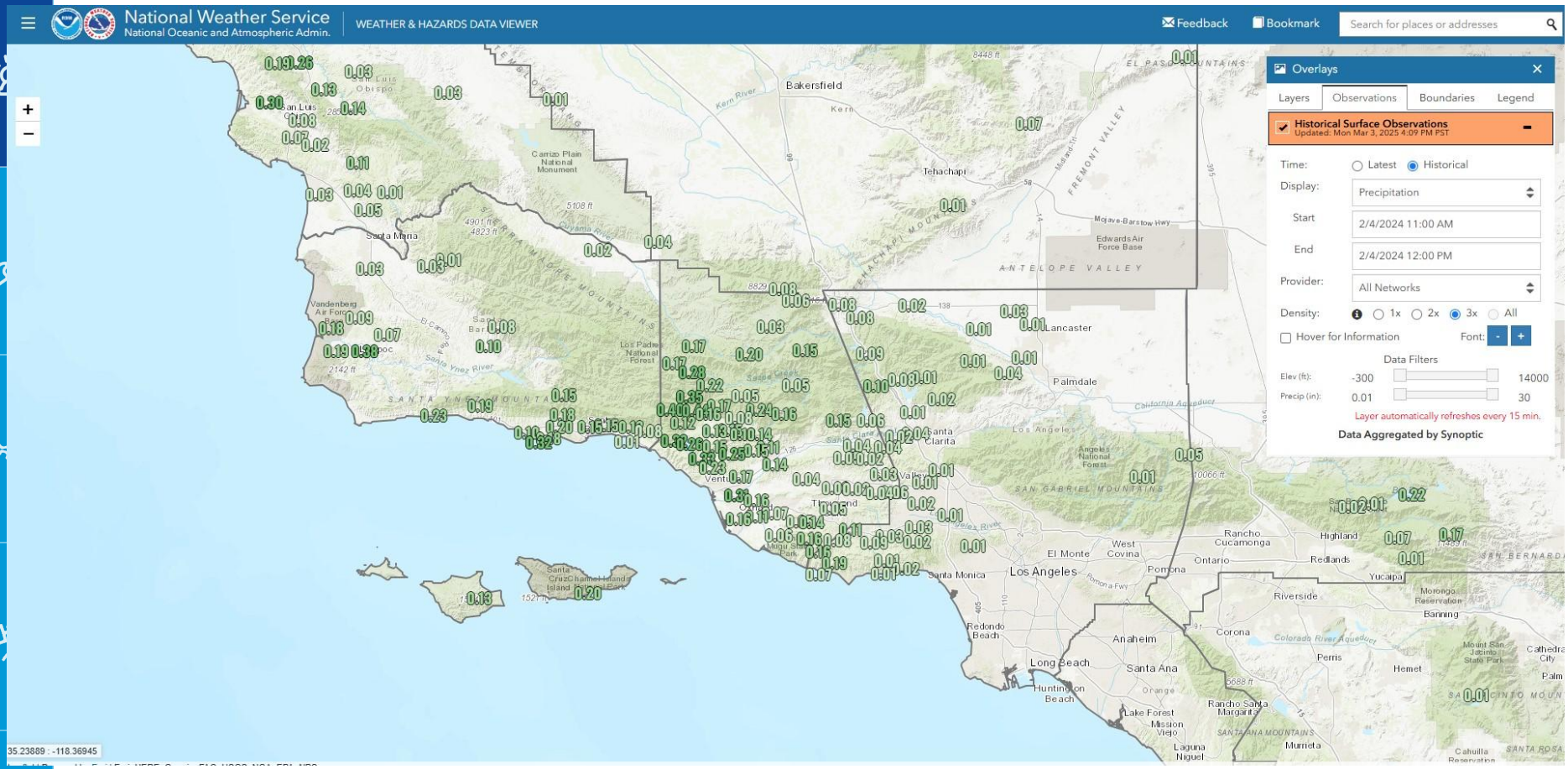
2/4/24 10AM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National Oceanic and Atmospheric Admin.
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Data Aggregated by Synoptic
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Los Angeles
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Pomona
Redlands
Corona
Palm
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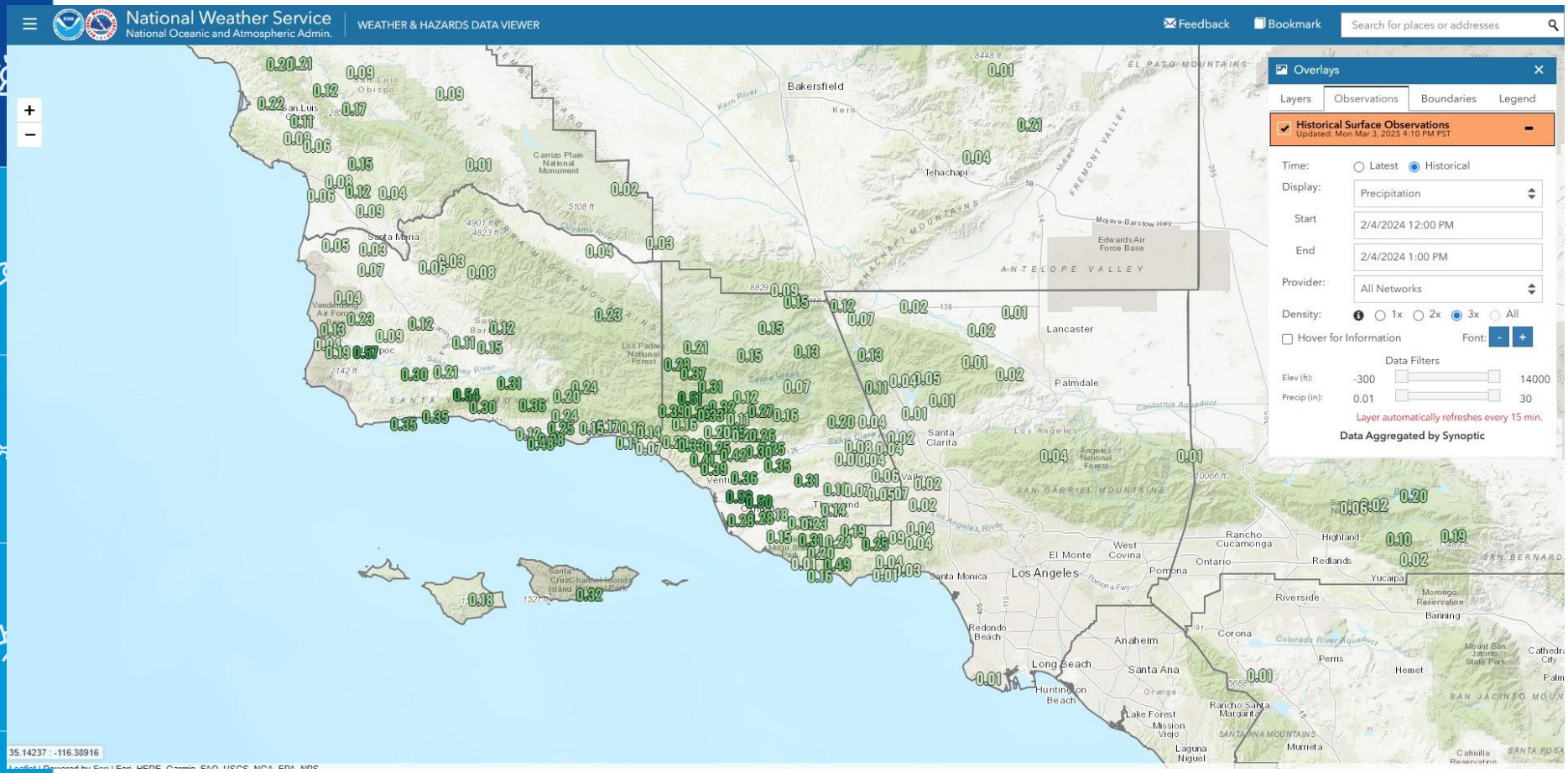
2/4/24 11AM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Time: Latest Historical
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
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Long Beach
Anaheim
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Redlands
Yucaipa
Perris
Hemet
Temecula
Murrieta
Lake Forest
Mission Viejo
Laguna Niguel
Huntington Beach
Redondo Beach
El Monte
West Covina
Rancho Cucamonga
Highland
Tehachapi
Santa Maria
Santa Barbara
Santa Clarita
Simi Valley
Thousand Oaks
Oxnard
Ventura
Edwards Air Force Base
Mojave-Barstow Hwy
Carrizo Plain National Monument
Los Padres National Forest
Angeles National Forest
San Gabriel Mountains
Santa Cruz Island
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Banning
Cahuilla Reservation
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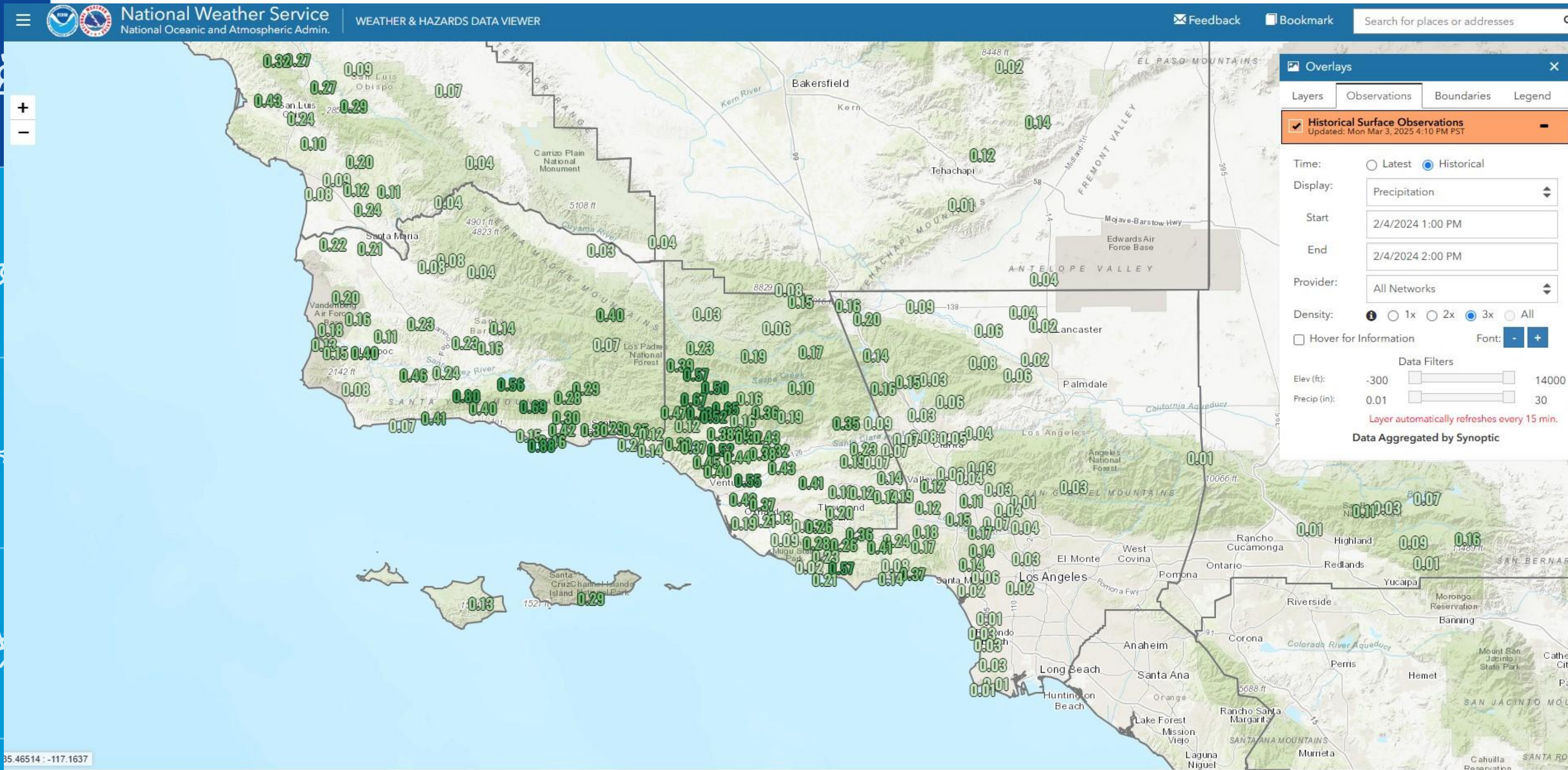
2/4/24 12PM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Observations
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Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:10 PM PST
Time: Latest Historical
Display: Precipitation
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Tehachapi
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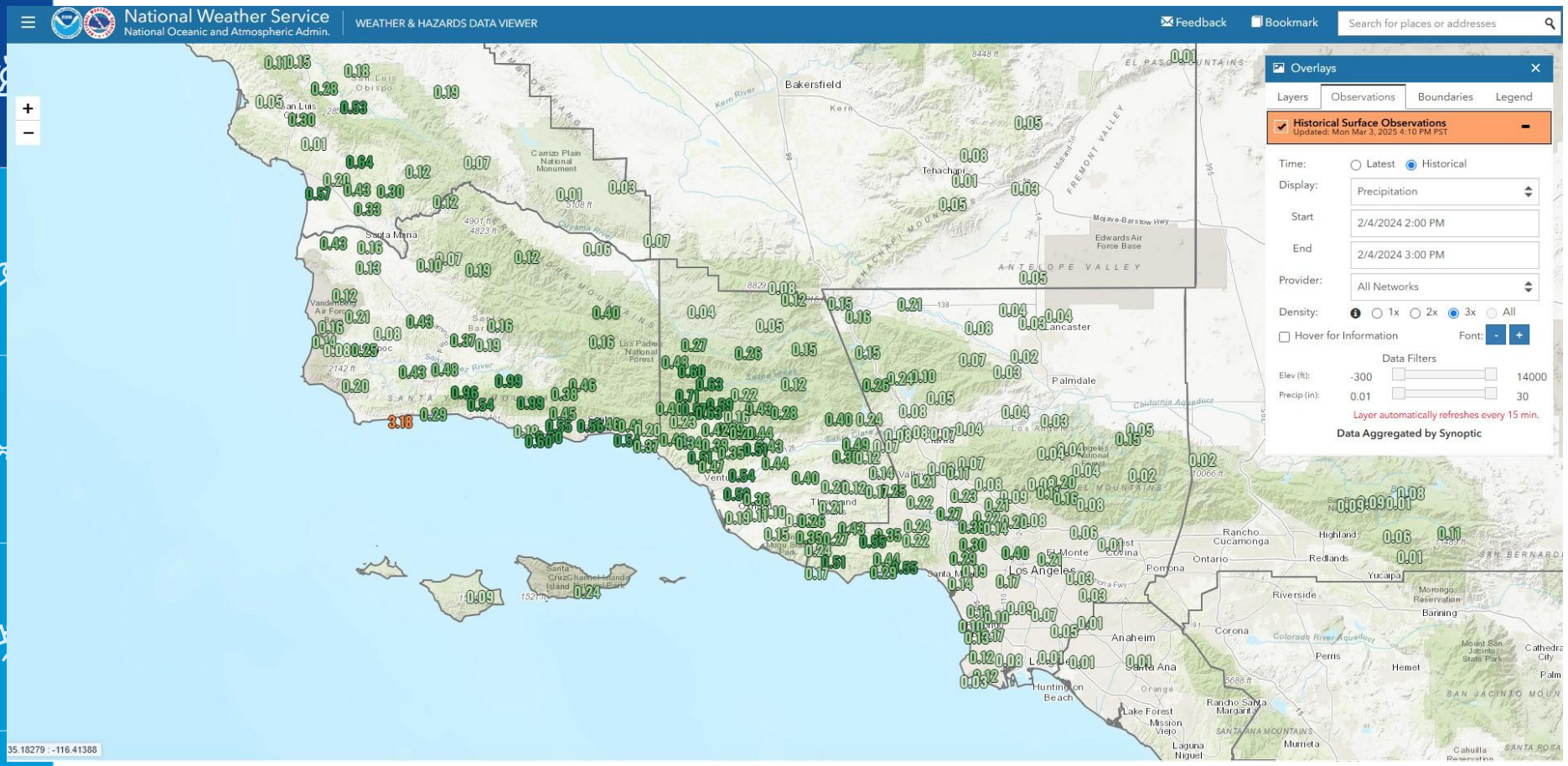
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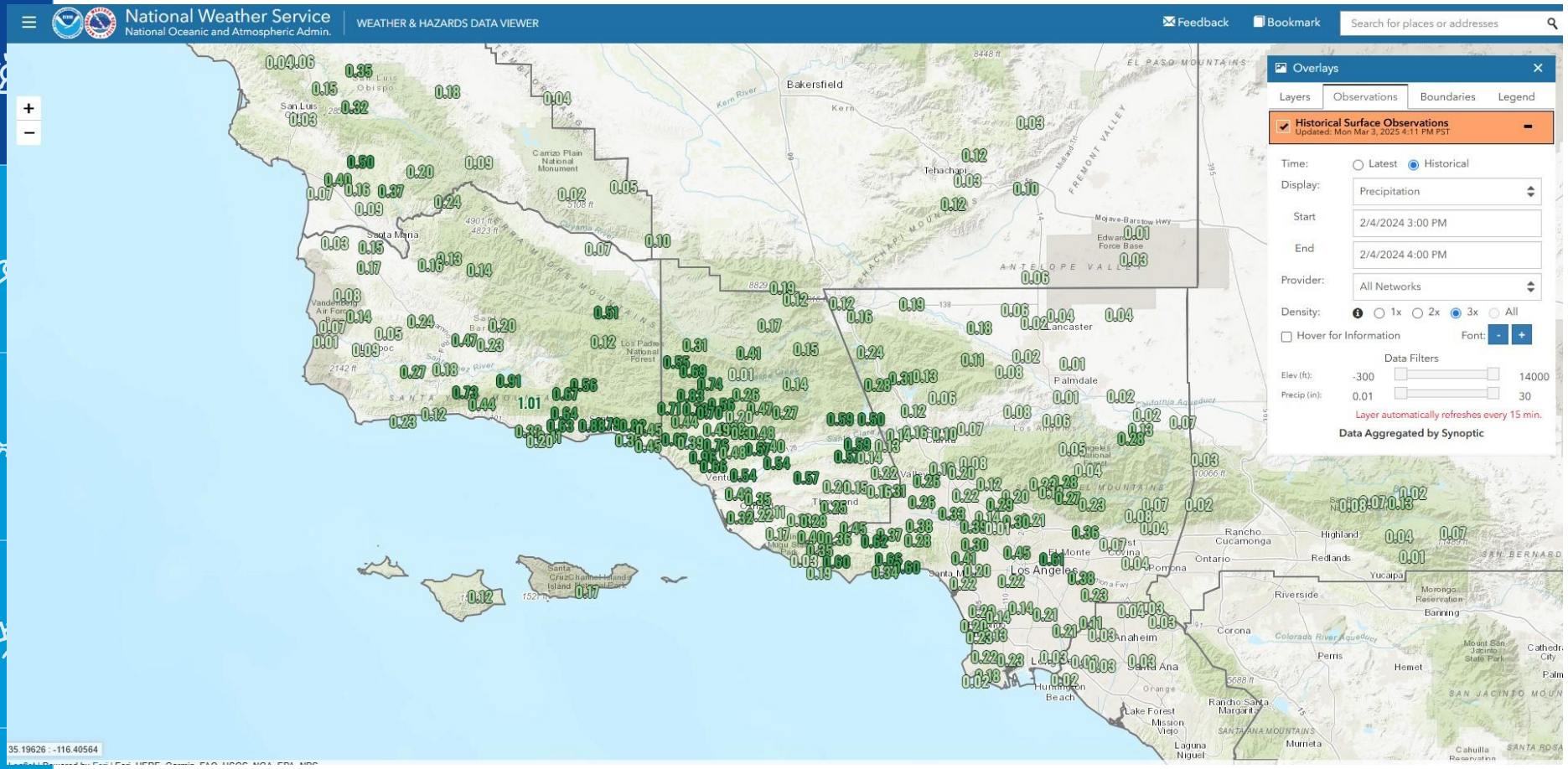
National Weather Service
National Oceanic and Atmospheric Admin.
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Santa Ana
Corona
Rancho Cucamonga
Redlands
Yucaipa
Hemet
Perris
Murrieta
Lake Forest
Mission Viejo
Laguna Niguel
Rancho Santa Margarita
Hummingbird Beach
Tehachapi
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Santa Cruz Island
Santa Rosa Island
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Los Padres National Forest
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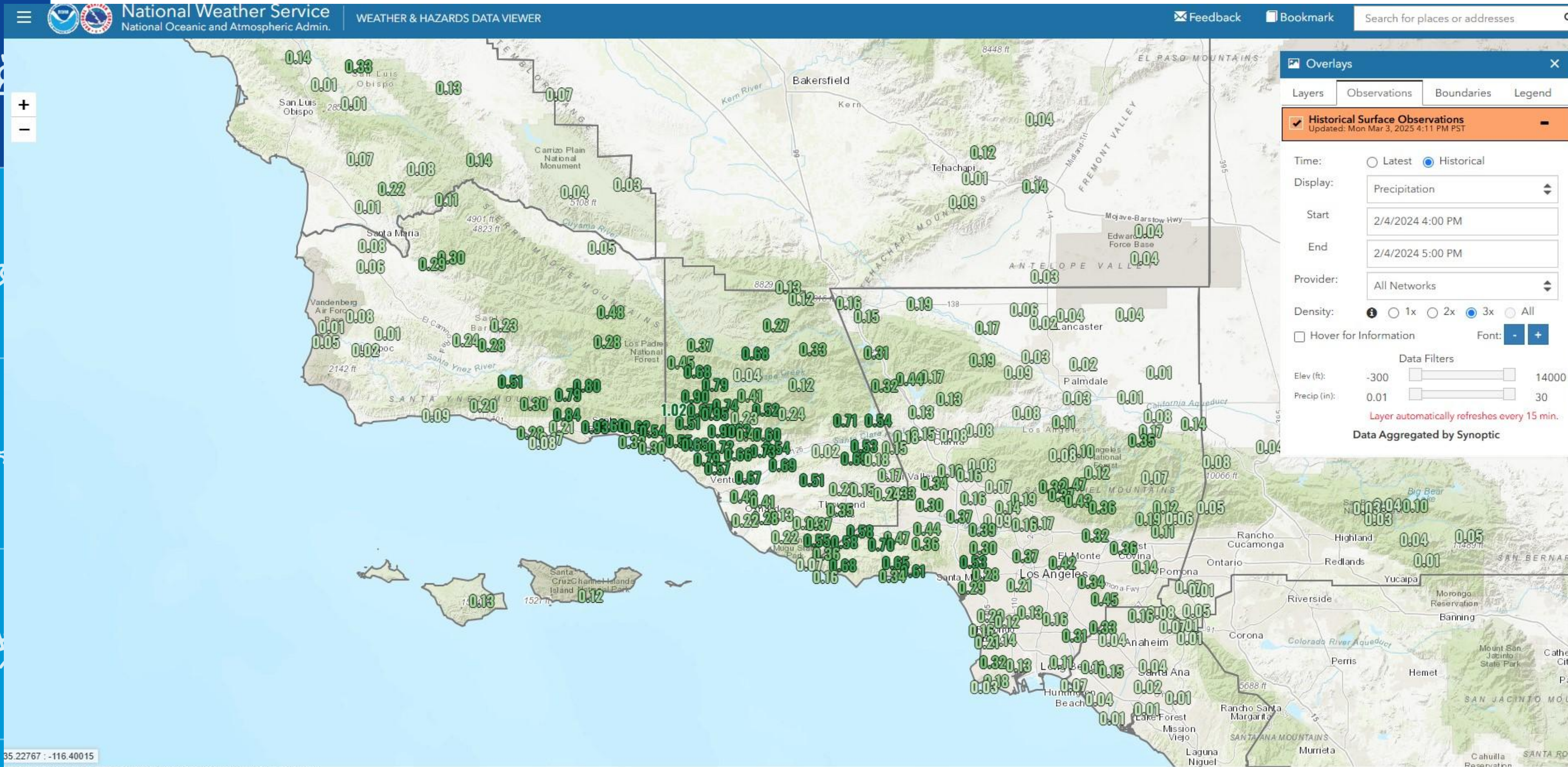
2/4/24 3PM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Data Aggregated by Synoptic
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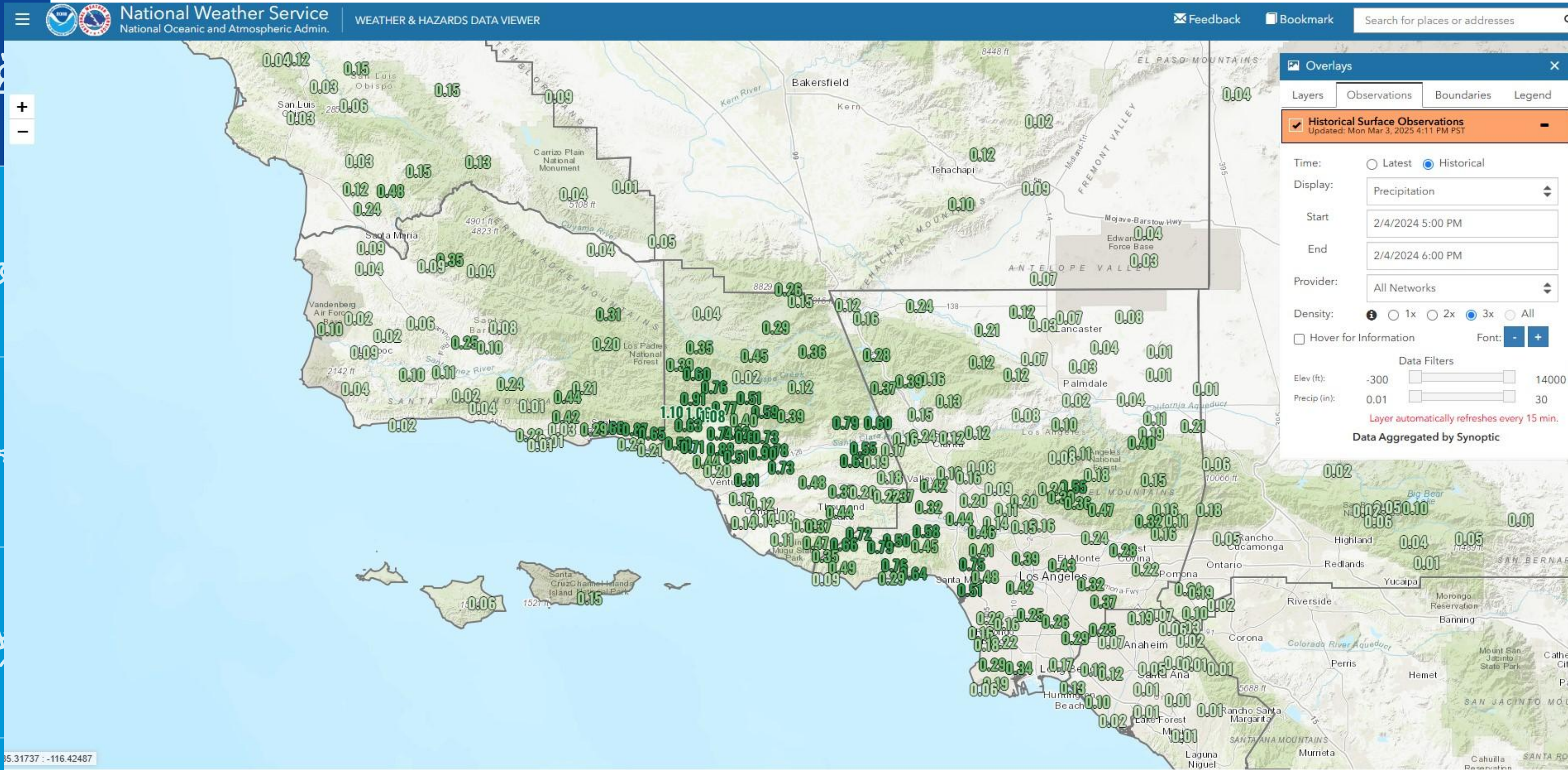
2/4/24 4PM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Redlands
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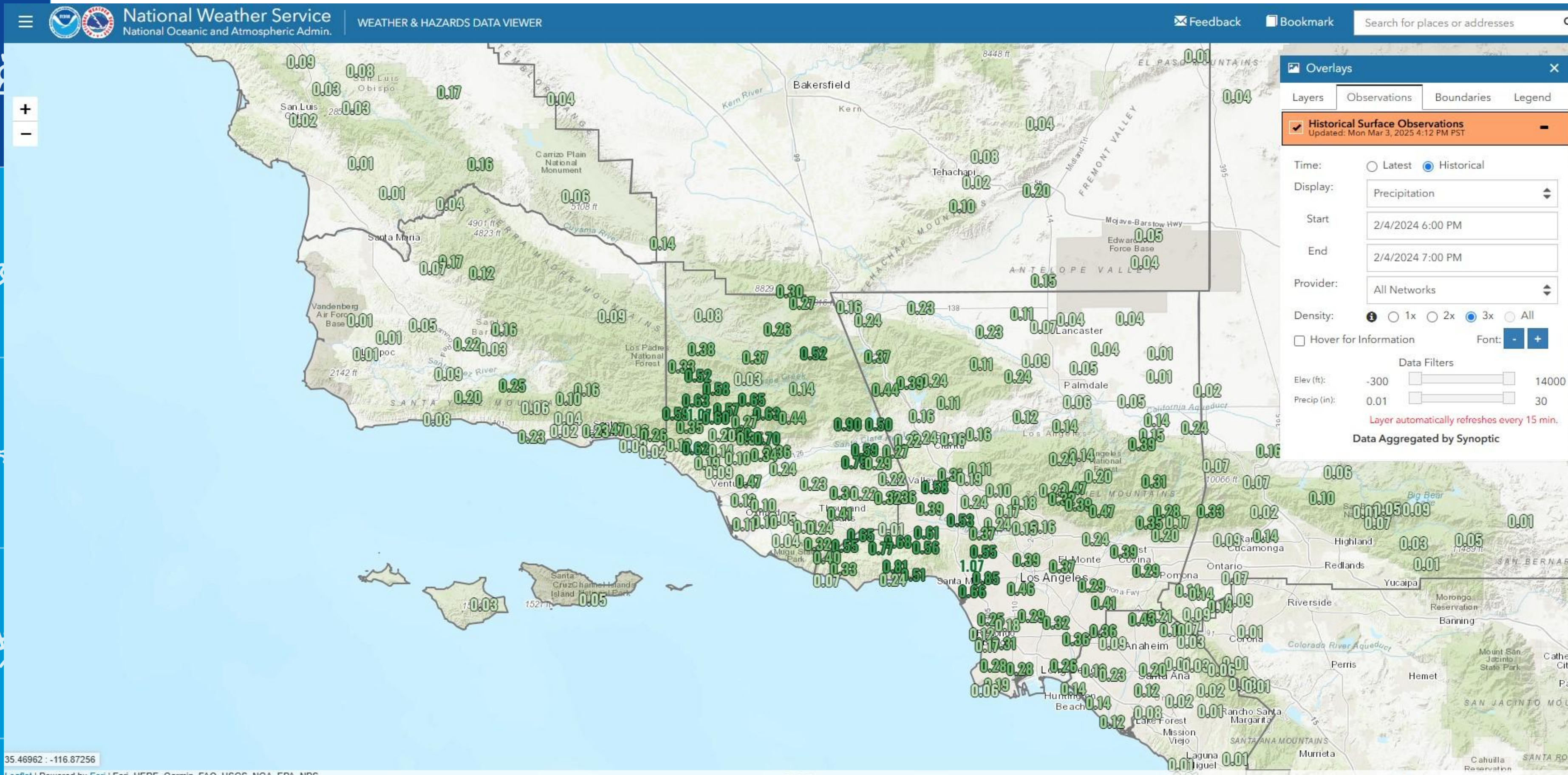
2/4/24 5PM



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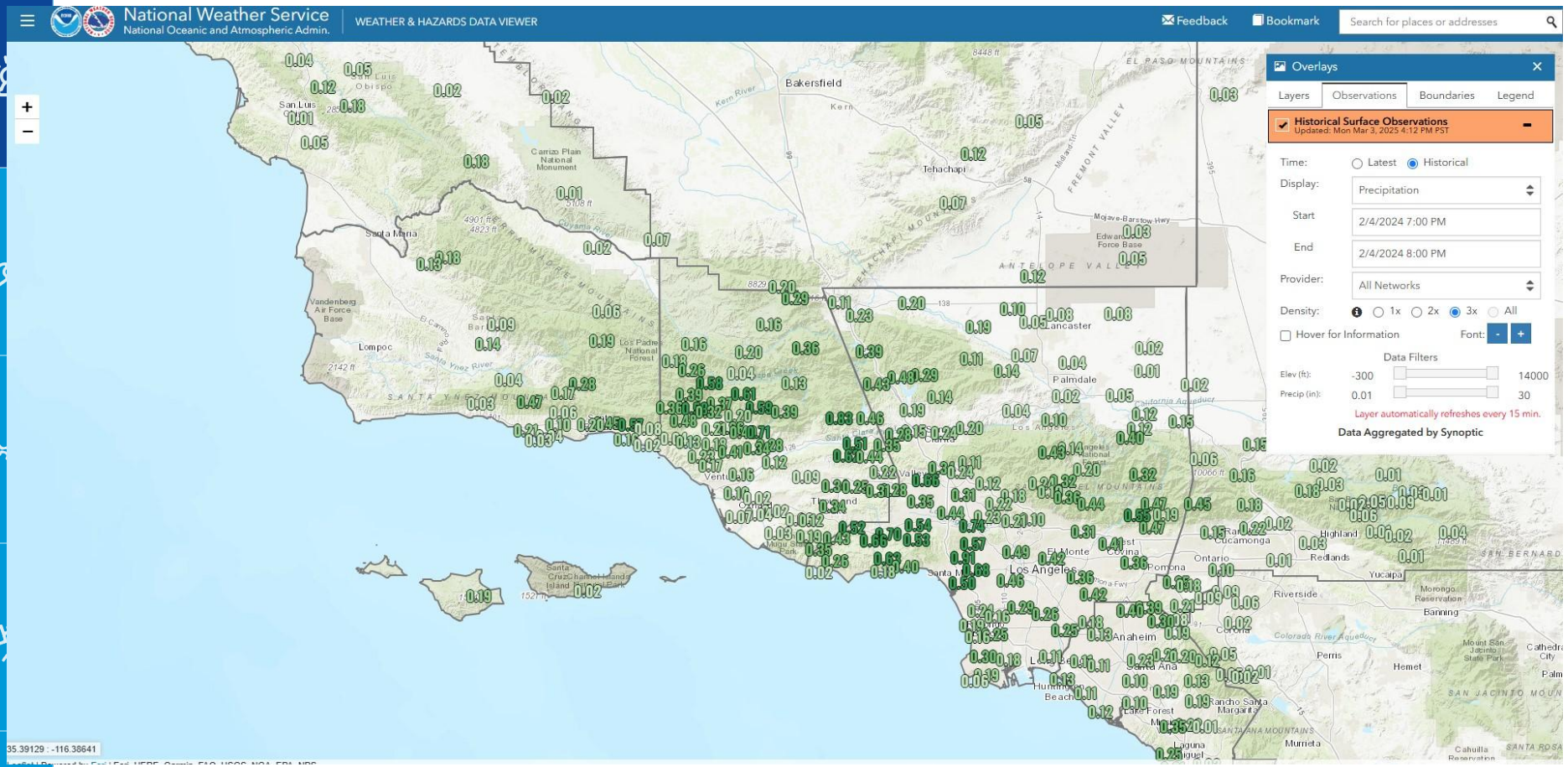
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National Oceanic and Atmospheric Admin.
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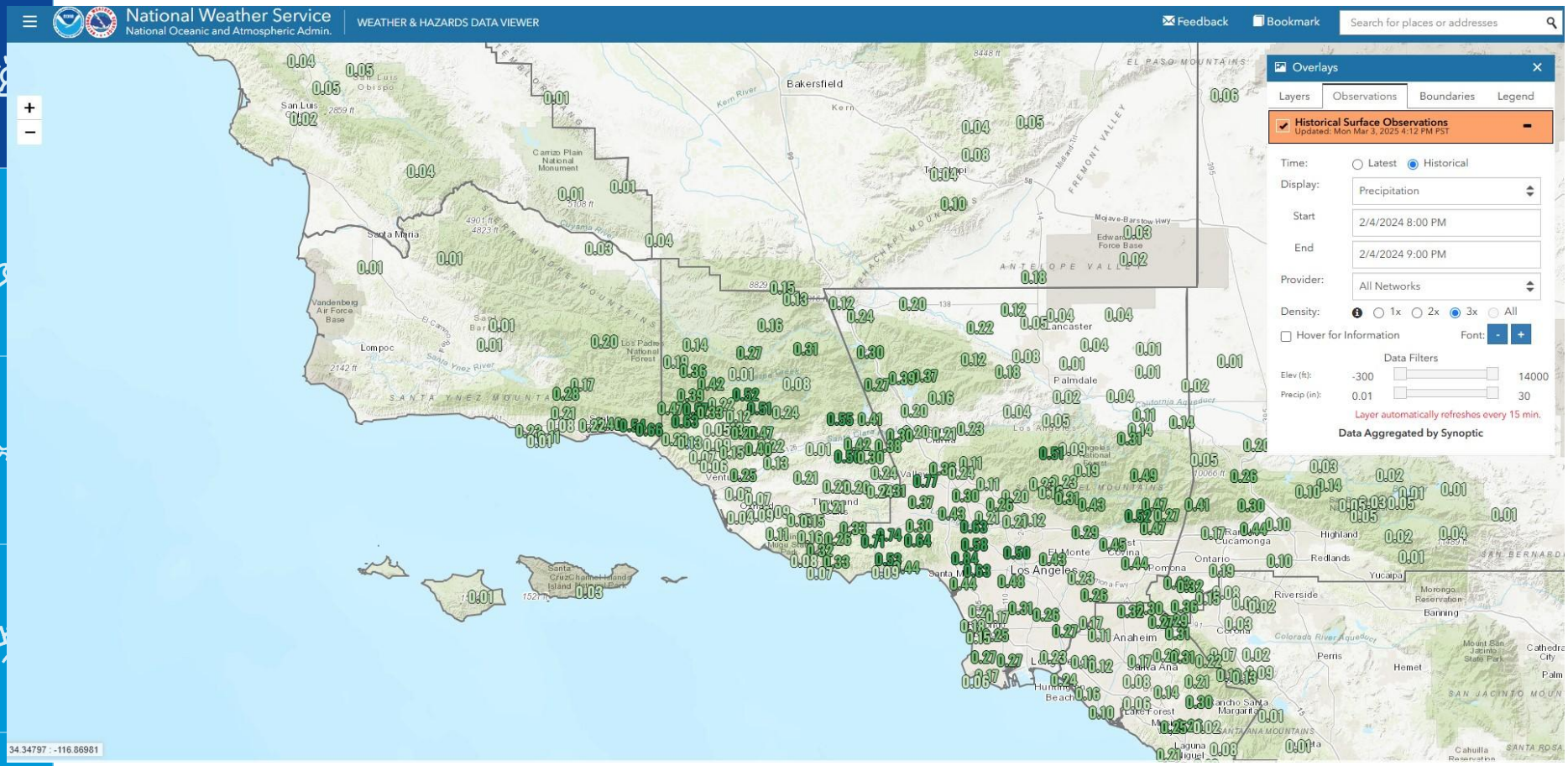
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Bakersbield
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Vandenberg Air Force Base
Edwards Air Force Base
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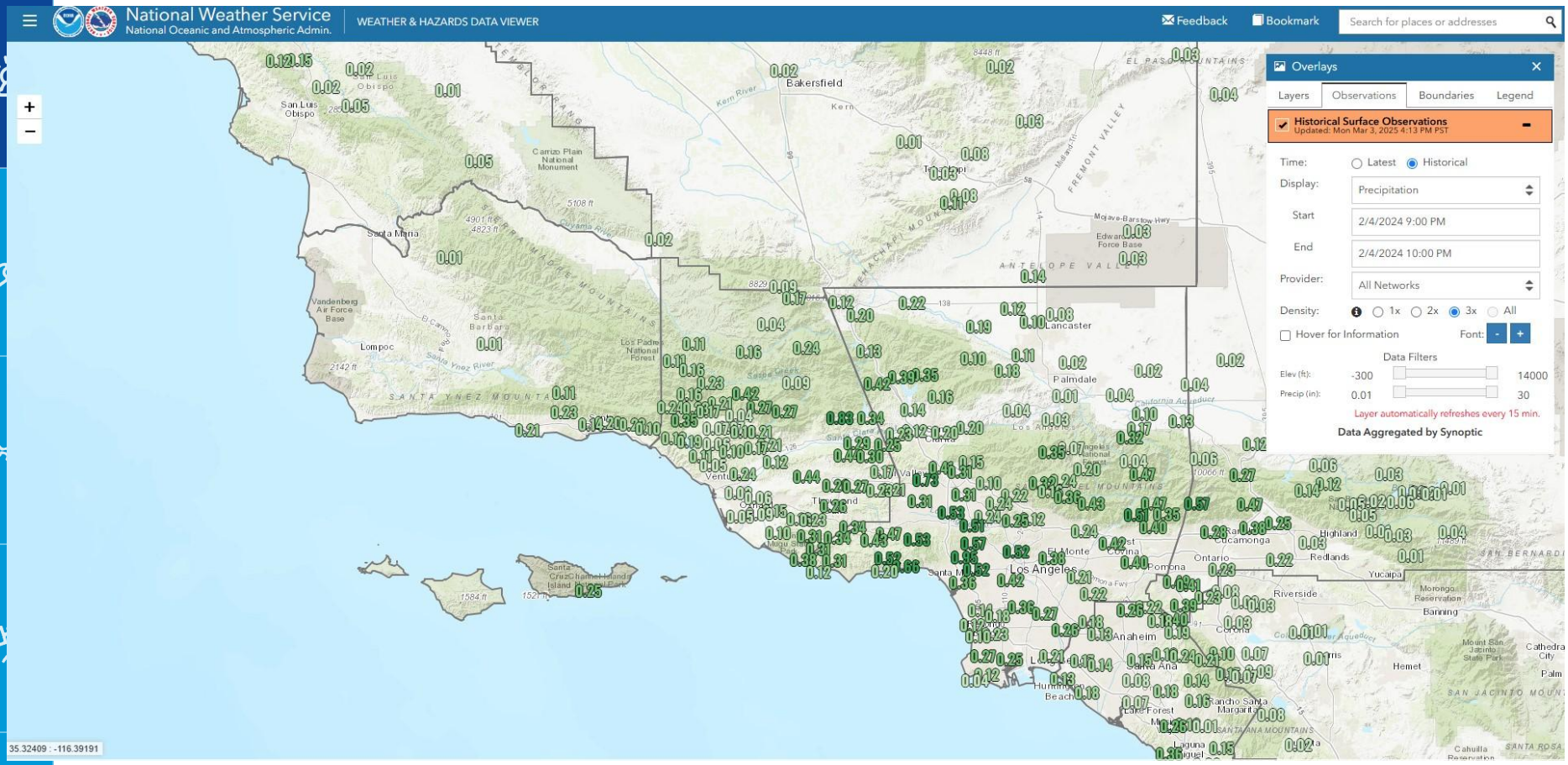
2/4/24 8PM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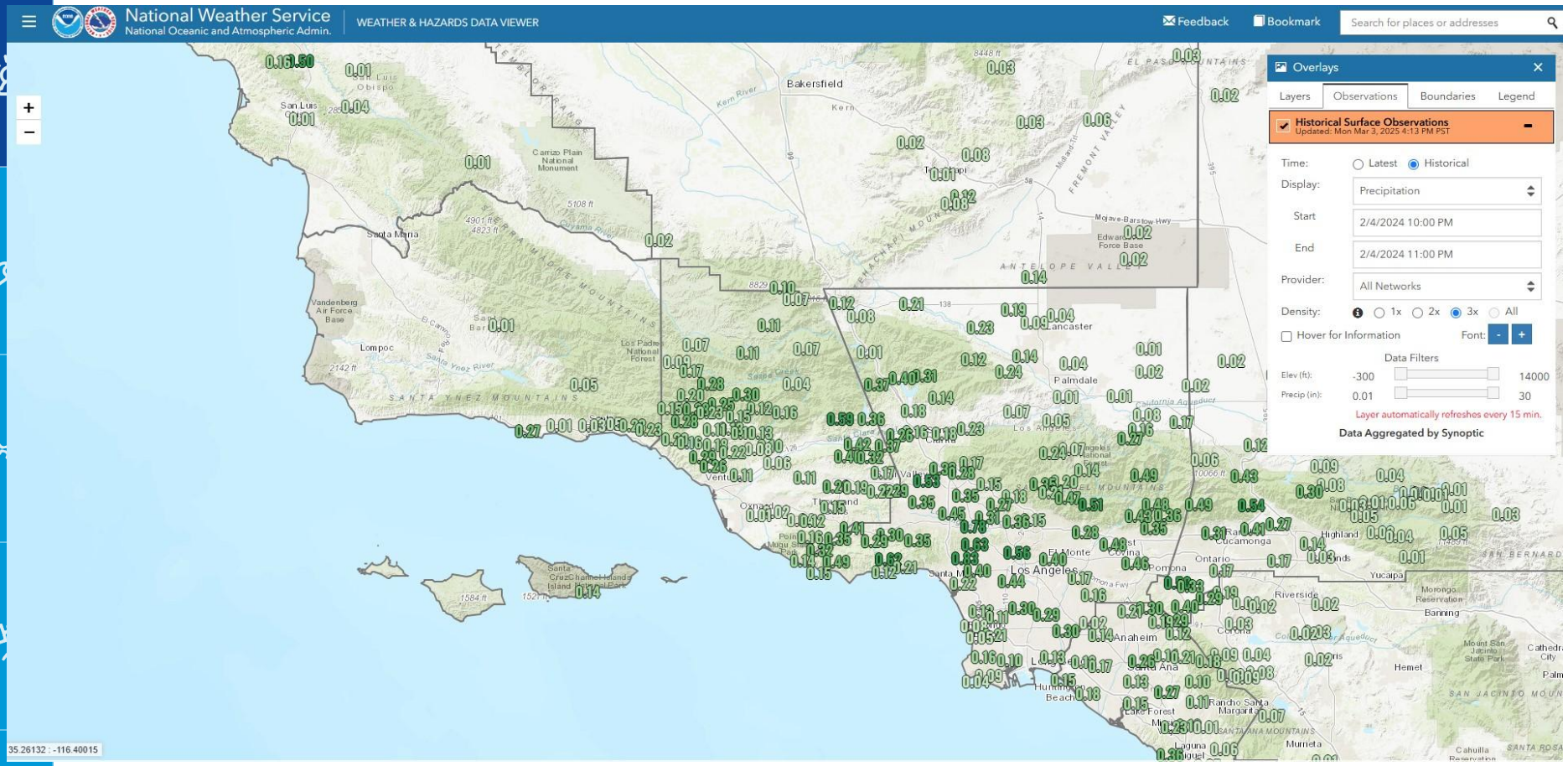
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Carrizo Plain National Monument
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Anaheim
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Lake Forest
Huntington Beach
Santa Ana
Yucaipa
Banning
Cucamonga
El Monte
Santa Cruz Island
Santa Rosa Island
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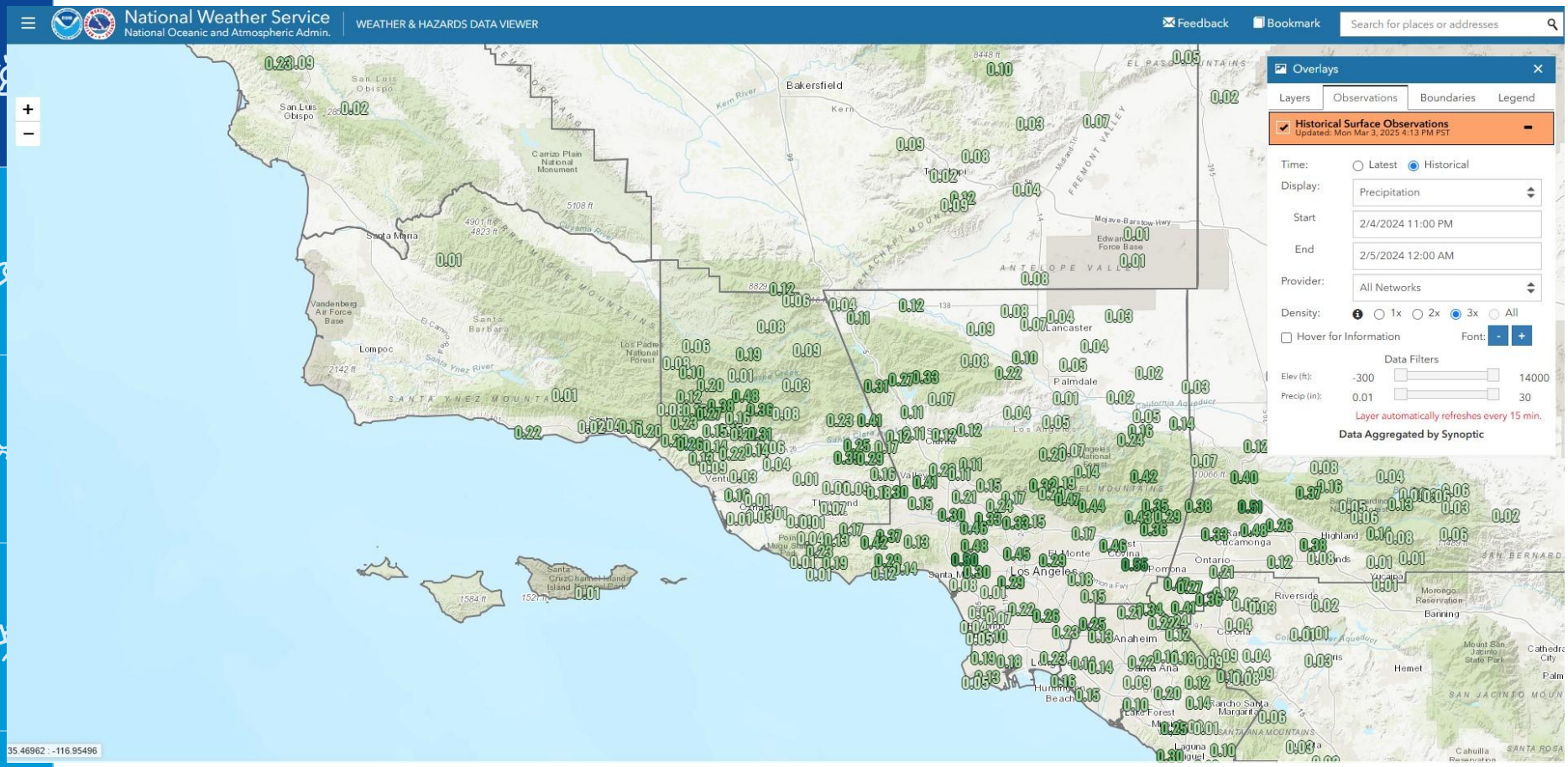
2/4/24 10PM


National Weather Service
National Oceanic and Atmospheric Admin.
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Bookmark
Search for places or addresses
Overlays
Layers
Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:13 PM PST
Time: Latest Historical
Display: Precipitation
Start 2/4/2024 11:00 PM
End 2/5/2024 12:00 AM
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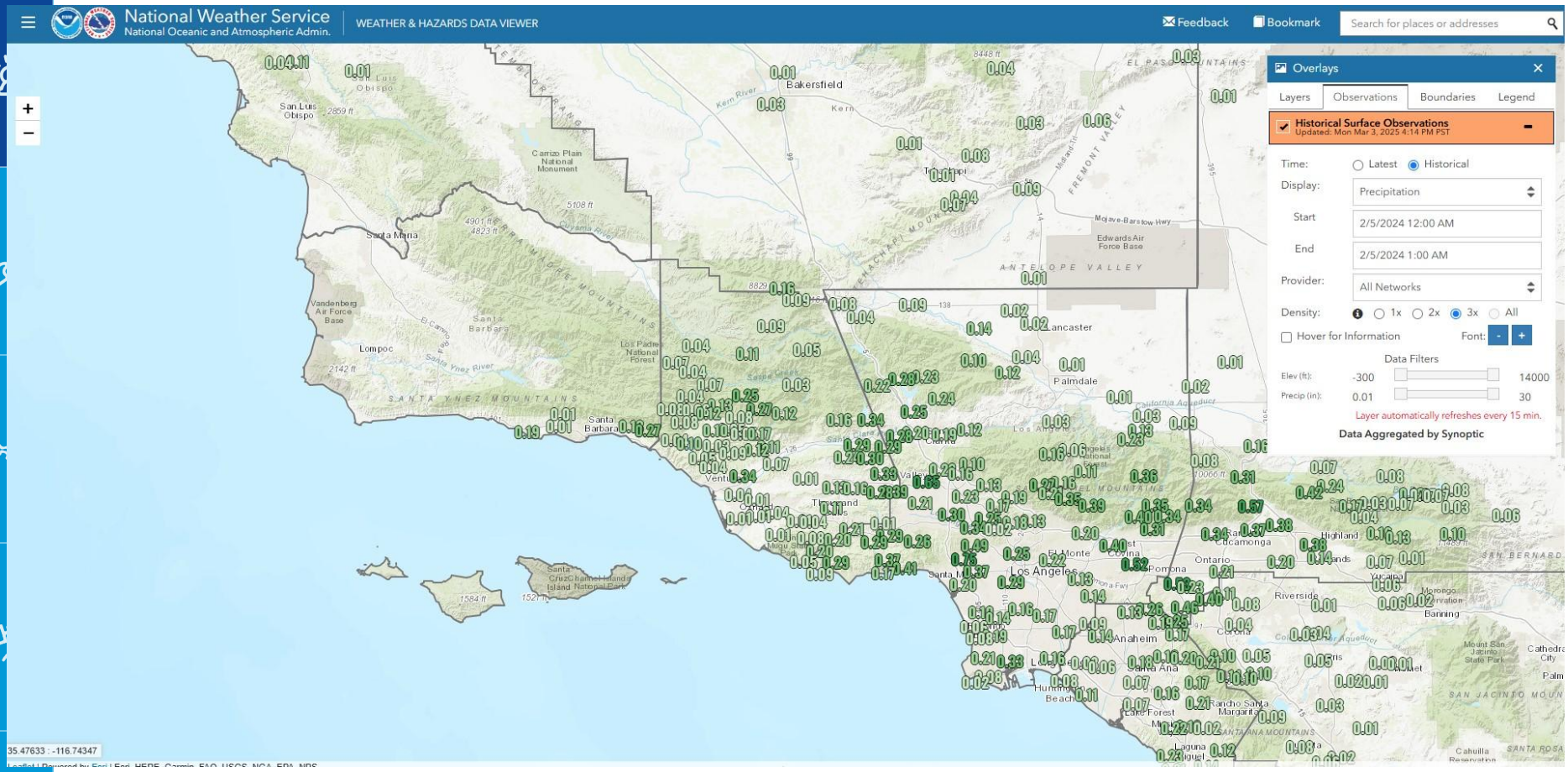
2/4/24 11PM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National Oceanic and Atmospheric Admin.
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Layers
Observations
Boundaries
Legend
Historical Surface Observations
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Time: Latest Historical
Display: Precipitation
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End 2/5/2024 1:00 AM
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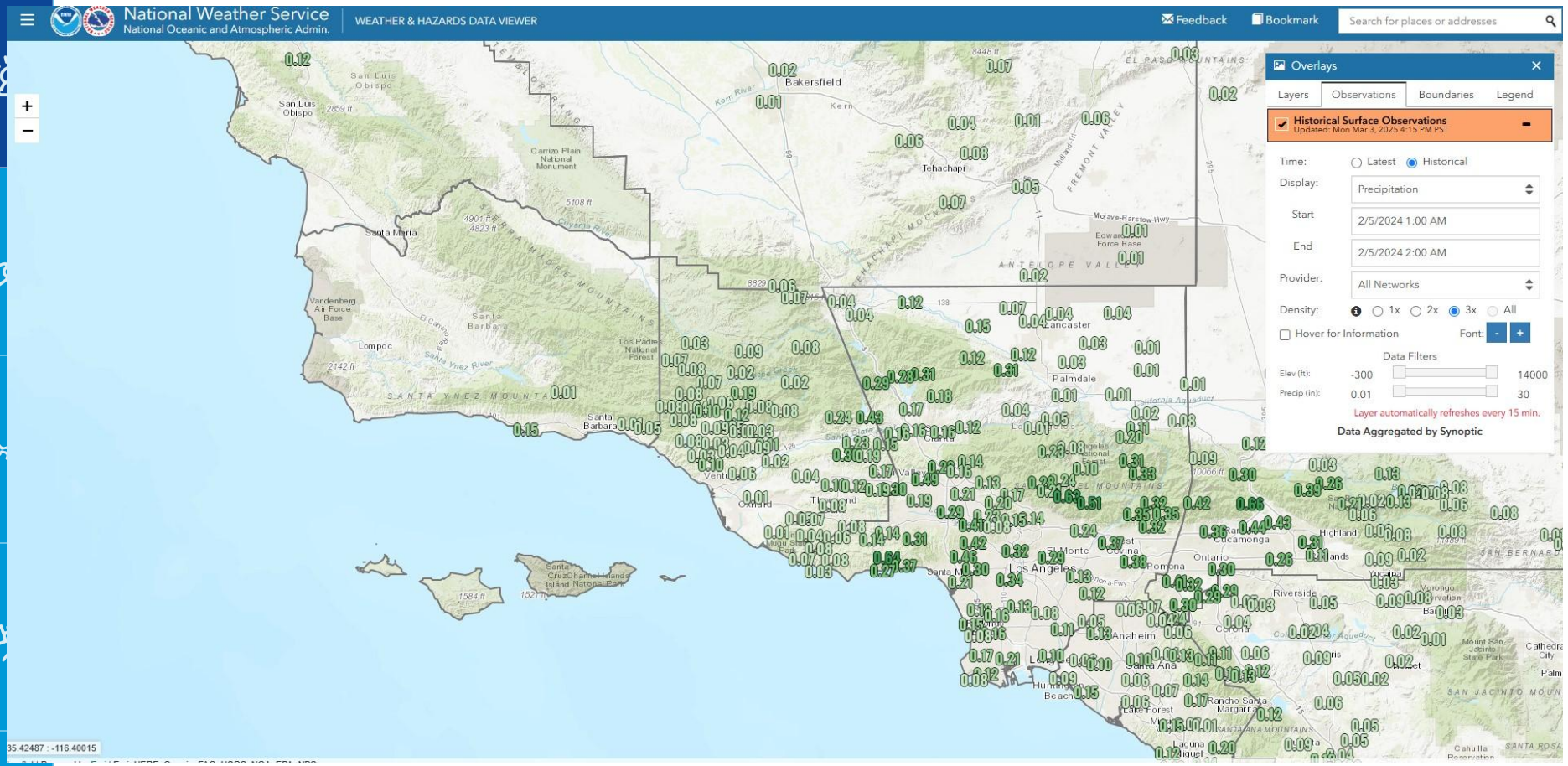
2/5/24 12AM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National Oceanic and Atmospheric Admin.
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Search for places or addresses
Overlays
Layers
Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:15 PM PST
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Display: Precipitation
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End 2/5/2024 2:00 AM
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Data Aggregated by Synoptic
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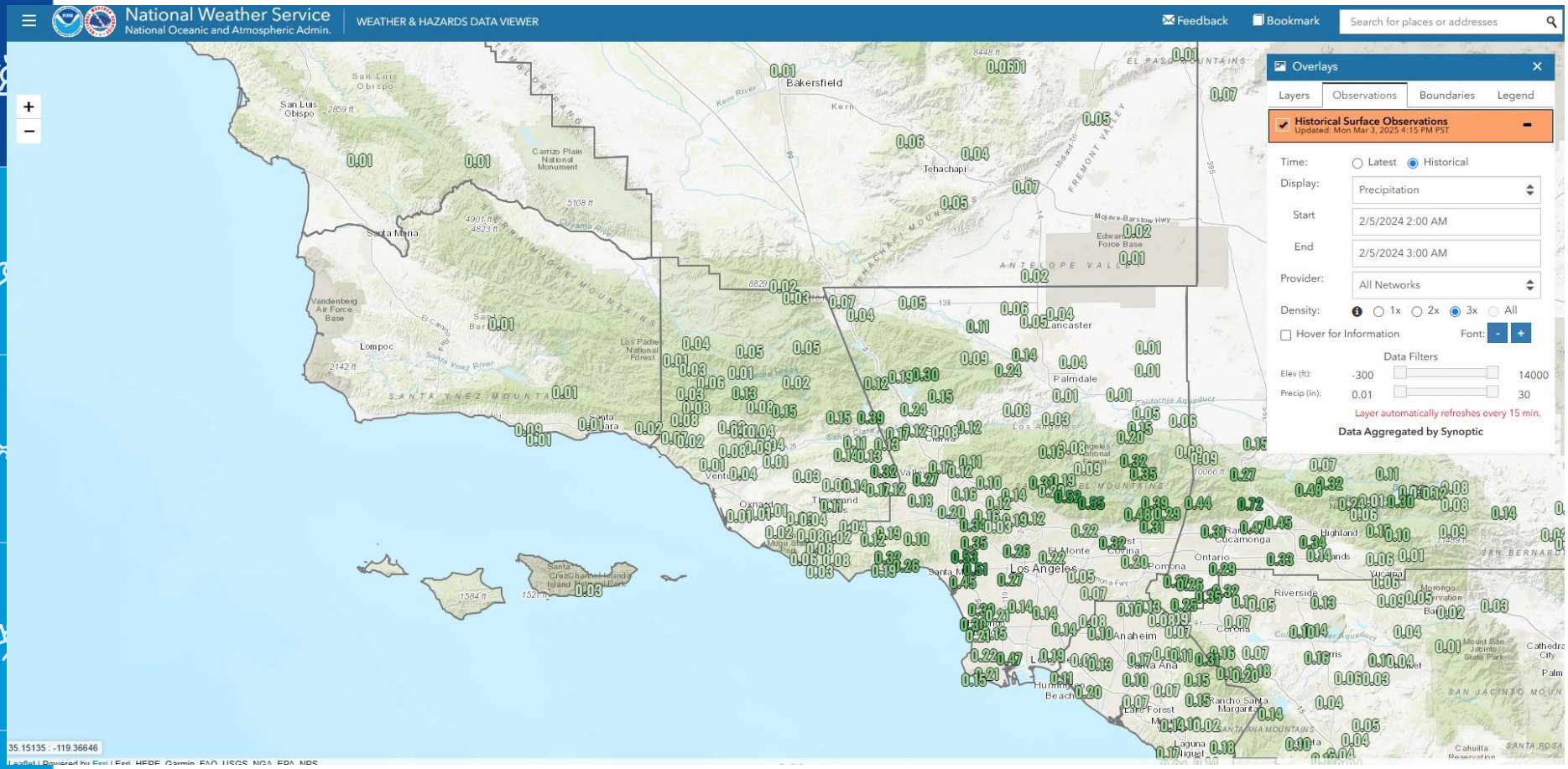
2/5/24 1AM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National Oceanic and Atmospheric Admin.
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Search for places or addresses
Overlays
Layers
Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:13 PM PST
Time: Latest Historical
Display: Precipitation
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End 2/5/2024 3:00 AM
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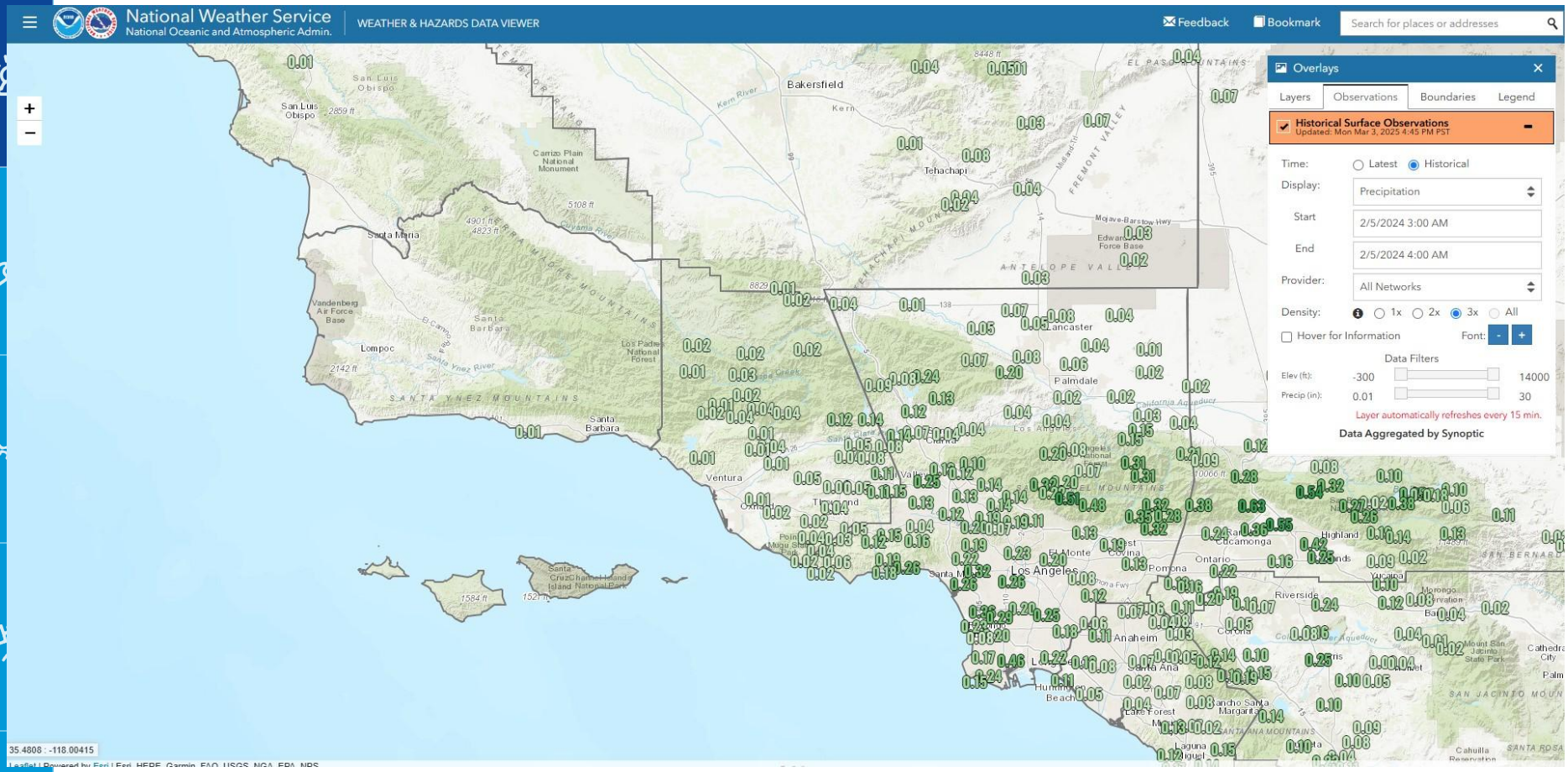
2/5/24 2AM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National Oceanic and Atmospheric Admin.
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Feedback
Bookmark
Search for places or addresses
Overlays
Layers
Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:45 PM PST
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Density: 1x 2x 3x All
Hover for Information
Font: - +
Data Filters
Elev (ft): -300 14000
Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Santa Maria
Lompoc
Santa Barbara
Ventura
Lancaster
Palmdale
Los Angeles
Pomona
Riverside
Anaheim
Santa Ana
Long Beach
Ontario
Cucamonga
Tehachapi
Mojave-Barstow Hwy
Edwards Air Force Base
Vandenberg Air Force Base
Carrizo Plain National Monument
Santa Cruz Island National Park
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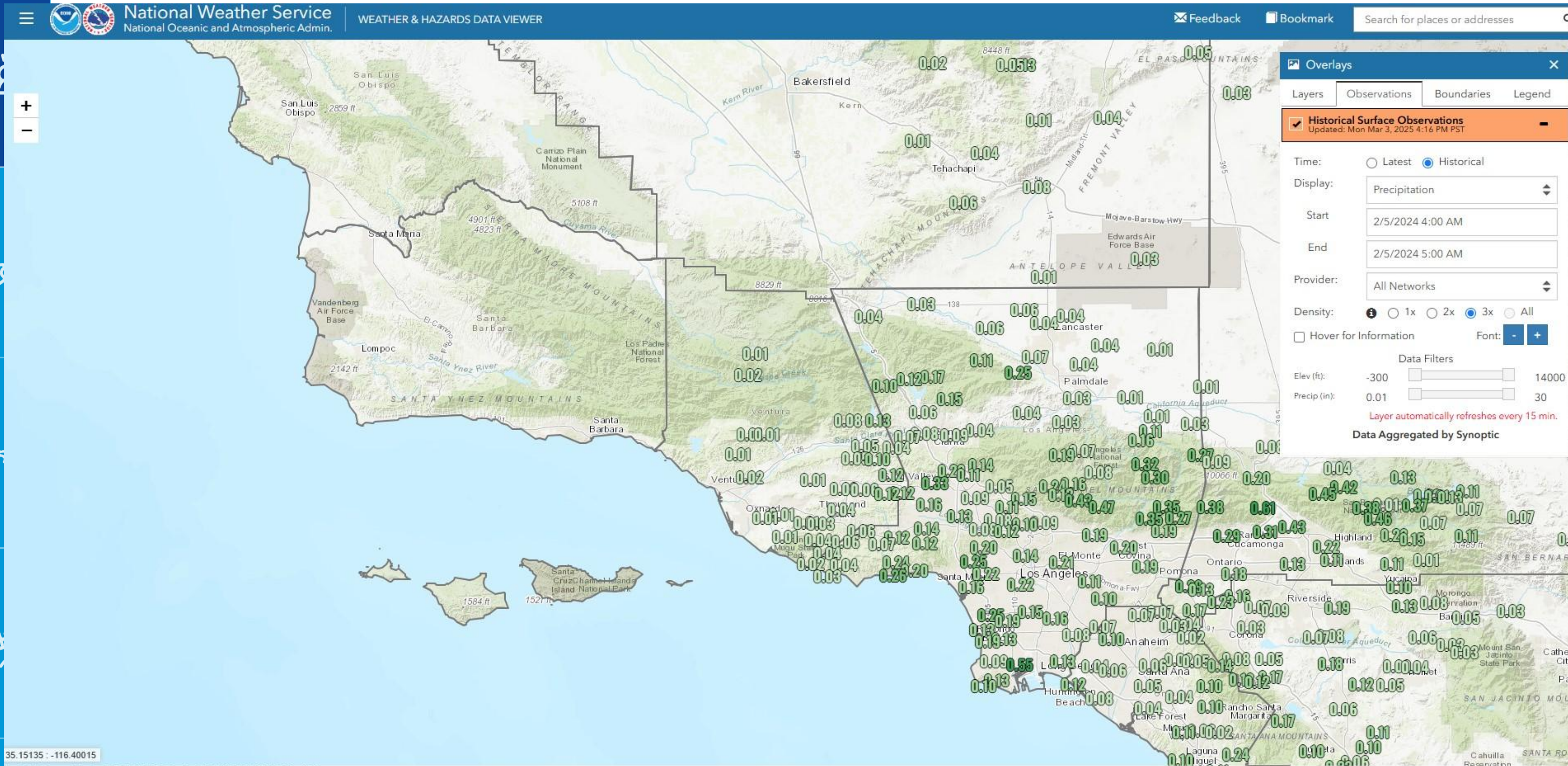
2/5/24 3AM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National Oceanic and Atmospheric Admin.
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Boundaries
Legend
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Font:
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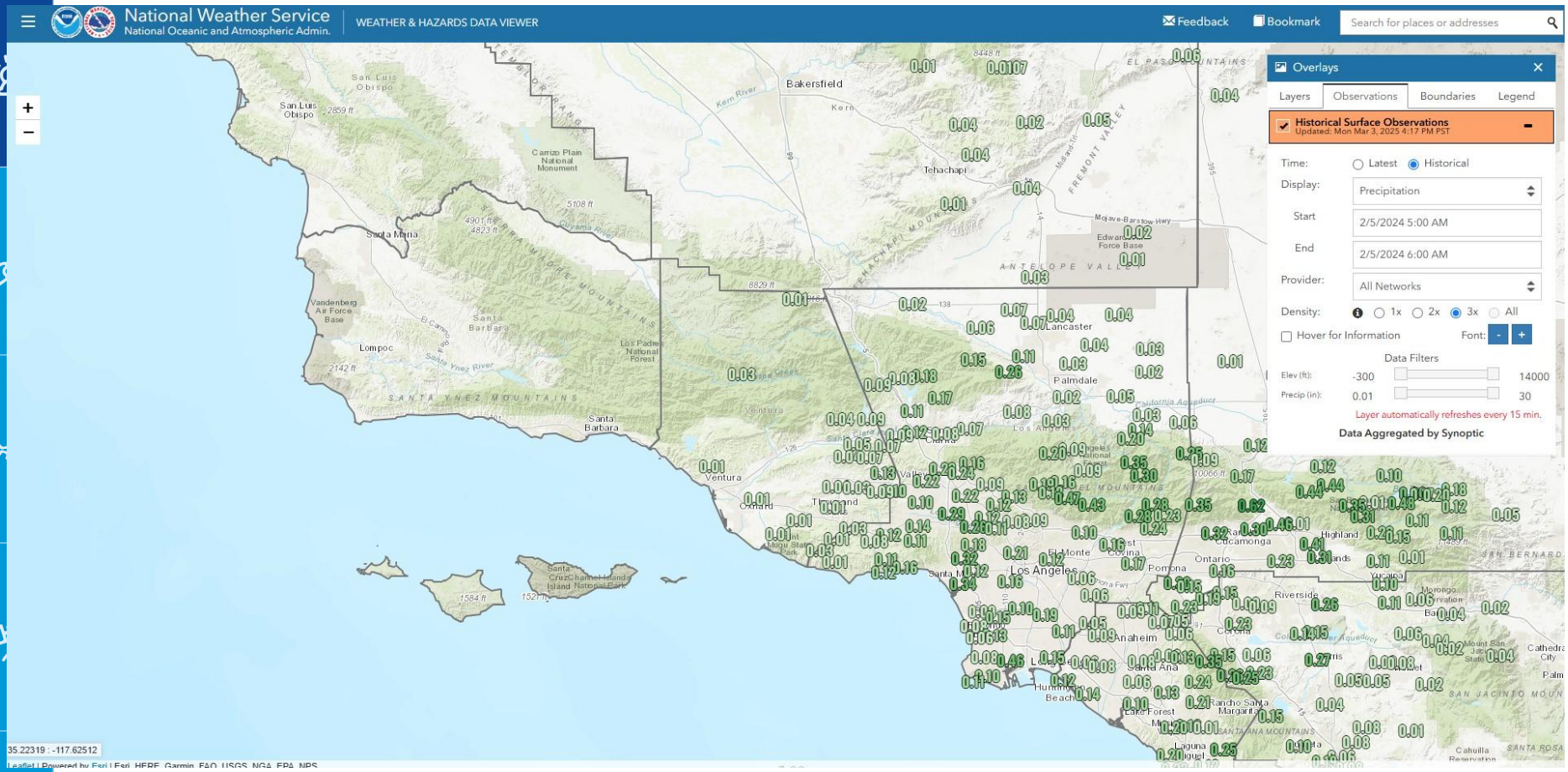
Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
San Luis Obispo
Santa Maria
Lompoc
Santa Barbara
Tehachapi
Lancaster
Palmdale
Edwards Air Force Base
Los Angeles
Anaheim
Santa Ana
Riverside
Ontario
Pomona
Corona
Huntington Beach
Oxnard
35.15135 : -116.40015

2/5/24 4AM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National Oceanic and Atmospheric Admin.
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Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:17 PM PST
Time: Latest Historical
Display: Precipitation
Start 2/5/2024 5:00 AM
End 2/5/2024 6:00 AM
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Hover for Information
Font: - +
Data Filters
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Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersbield
San Luis Obispo
Santa Maria
Santa Barbara
Lompoc
Ventura
Oxnard
Lancaster
Palmdale
Los Angeles
Pomona
Ontario
Riverside
Anaheim
Santa Ana
Irvine
Lake Forest
Rancho Santa Margarita
Mission Viejo
Laguna Niguel
Cucamonga
Highland
Yucaipa
Redlands
Cathedral City
Palm
Vandenberg Air Force Base
Edwards Air Force Base
Carrizo Plain National Monument
Los Padres National Forest
Santa Cruz Island
Tehachapi
Kern River
Santa Ynez River
SANTA YNEZ MOUNTAINS
SIERRA MADRE MOUNTAINS
TEHACHAPI MOUNTAINS
ANTELOPE VALLEY
SAN BERNARDINO MOUNTAINS
SAN JACINTO MOUNTAINS
SANTA ANA MOUNTAINS
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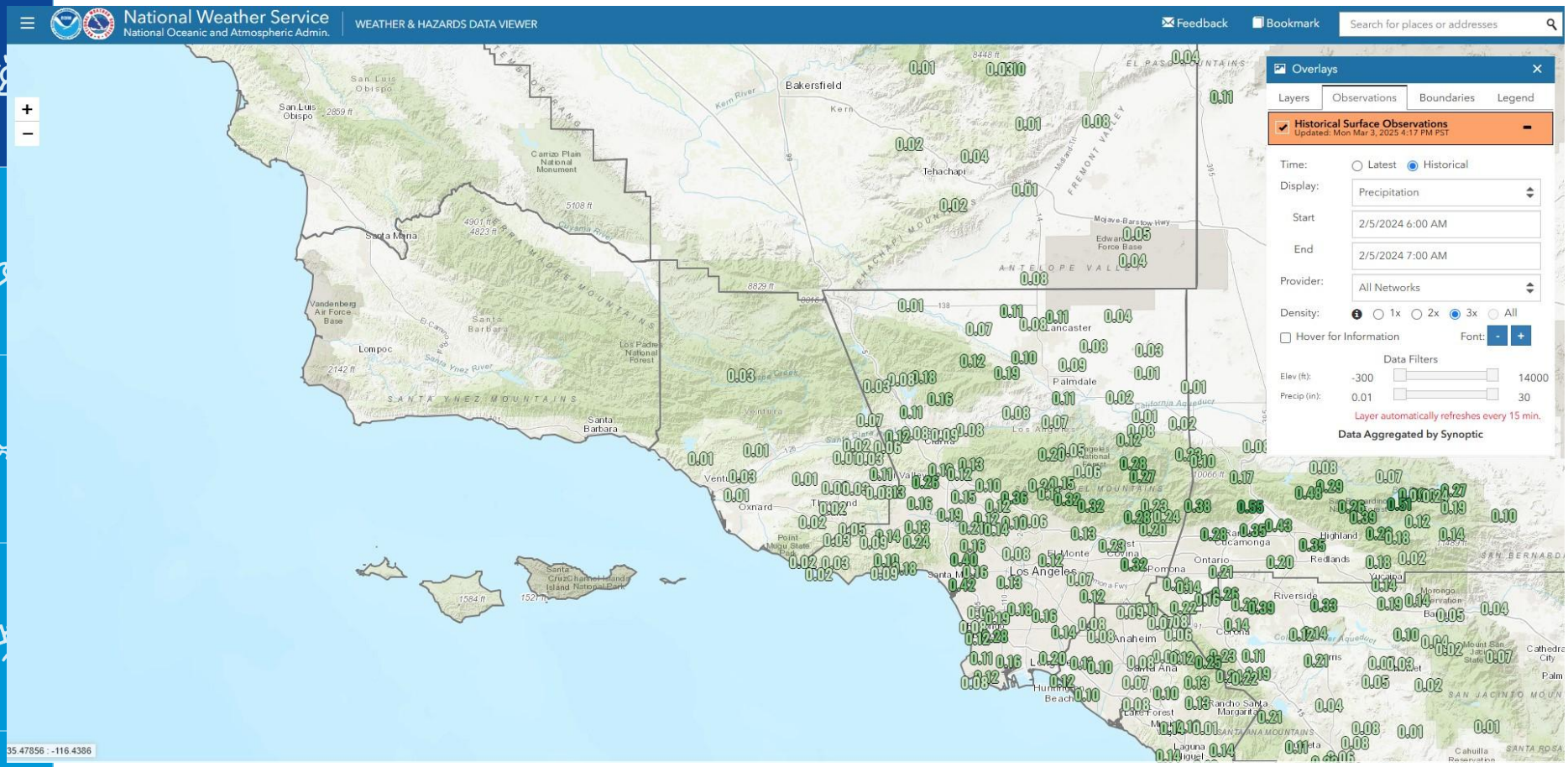
Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

2/5/24 5AM


National Weather Service
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Search for places or addresses
Overlays
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Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:17 PM PST
Time: Latest Historical
Display: Precipitation
Start 2/5/2024 6:00 AM
End 2/5/2024 7:00 AM
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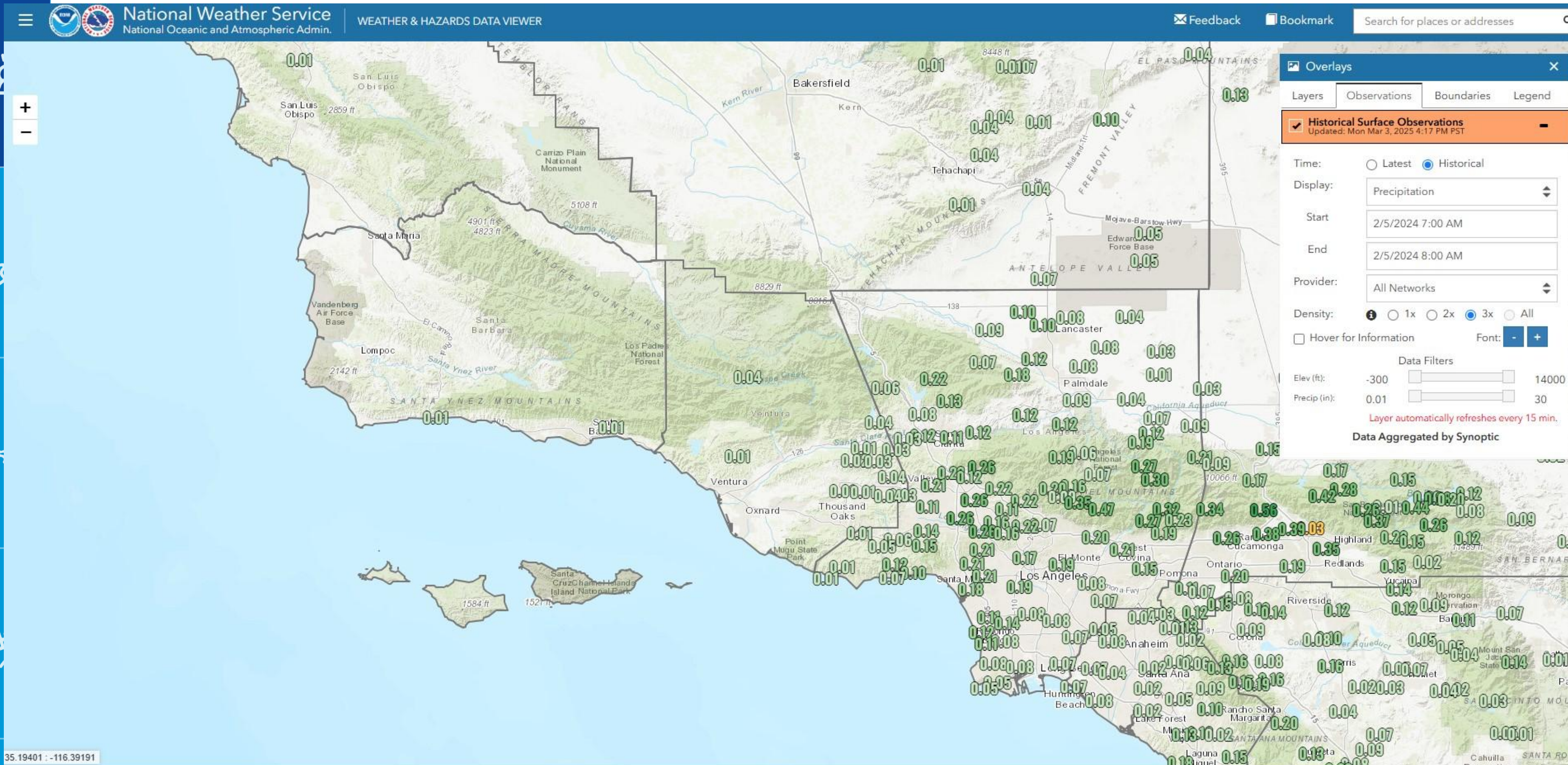
Font:
Data Filters
Elev (ft): -300 14000
Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
San Luis Obispo
Santa Maria
Santa Barbara
Lompoc
Vandenberg Air Force Base
Oxnard
Lancaster
Palmdale
Los Angeles
Pomona
Ontario
Riverside
Anaheim
Santa Ana
Long Beach
Tehachapi
Edwards Air Force Base
Redlands
Highland
Rancho Santa Margarita
Lake Forest
Laguna Niguel
Cahuilla Reservation
35.47856 : -116.4386

2/5/24 6AM


National Weather Service
National Oceanic and Atmospheric Admin.
WEATHER & HAZARDS DATA VIEWER
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Search for places or addresses
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Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:17 PM PST
Time: Latest Historical
Display: Precipitation
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End 2/5/2024 8:00 AM
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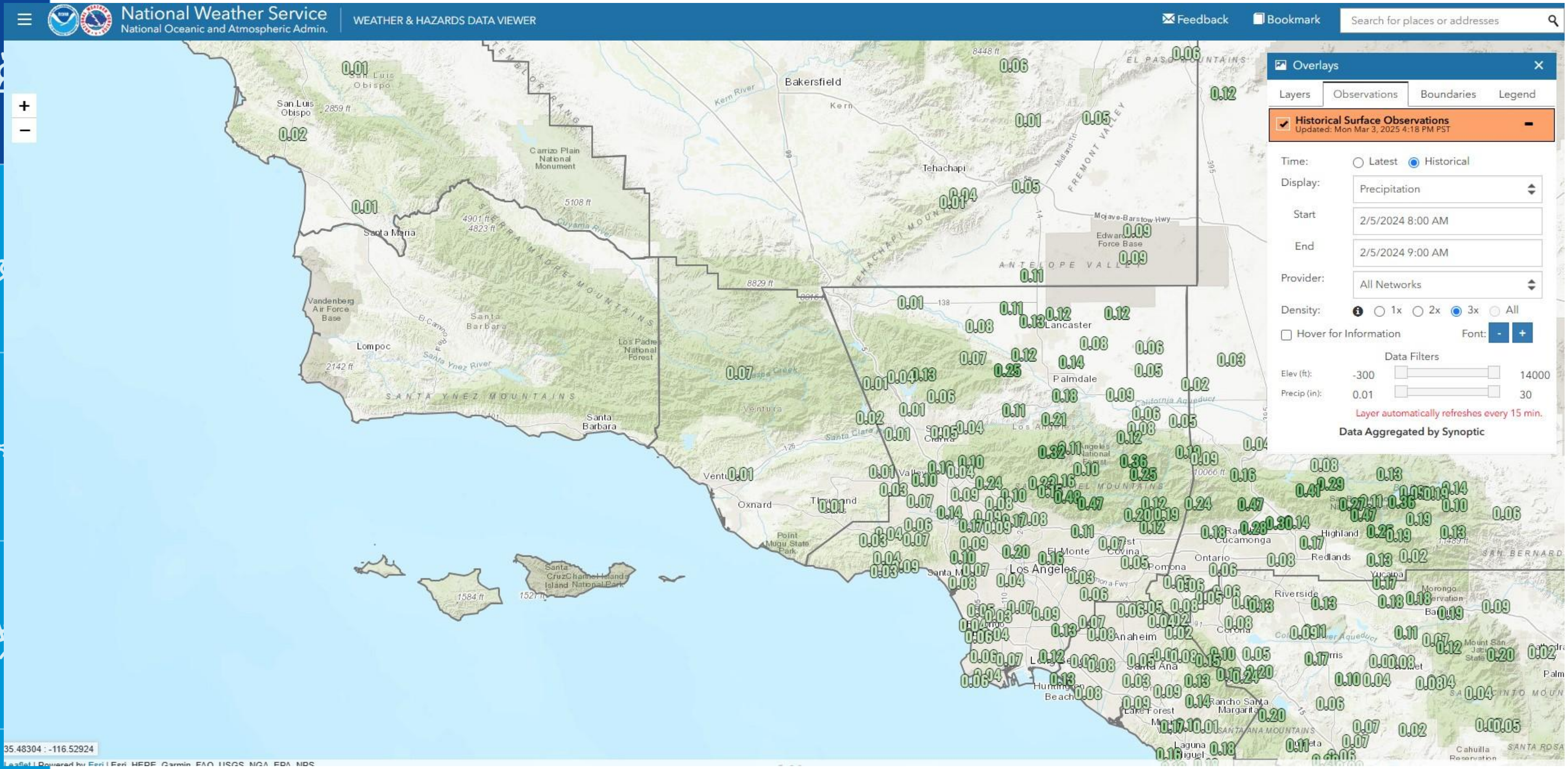
2/5/24 7AM


National Weather Service
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Observations
Boundaries
Legend
Historical Surface Observations
Time: Latest Historical
Display: Precipitation
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End 2/5/2024 9:00 AM
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Hover for Information
Font:
Data Filters
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Santa Maria
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Palmdale
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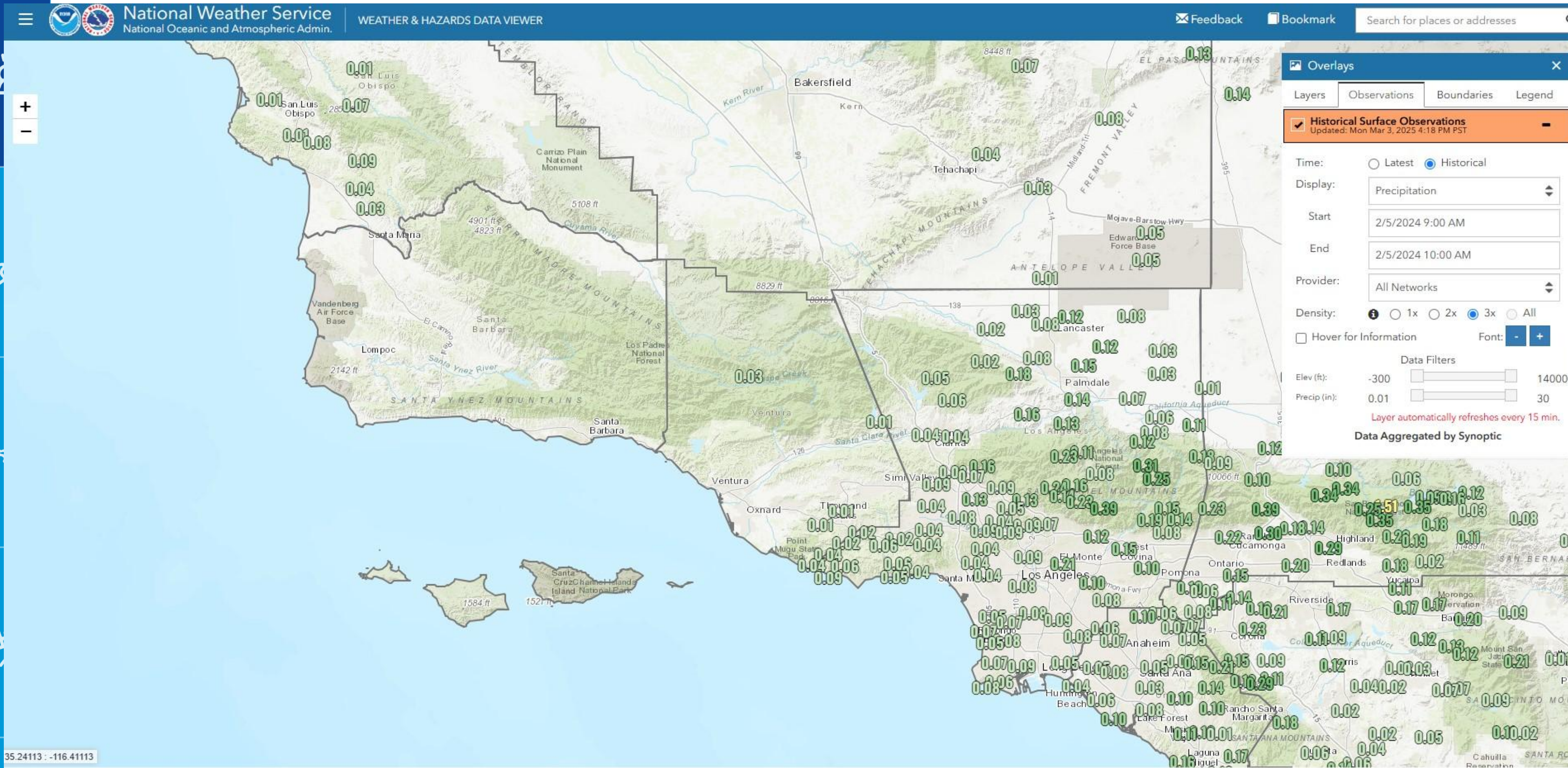
Riverside
Redlands
Ontario
Pomona

2/5/24 8AM


National Weather Service
National Oceanic and Atmospheric Admin.
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Overlays
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Time: Latest Historical
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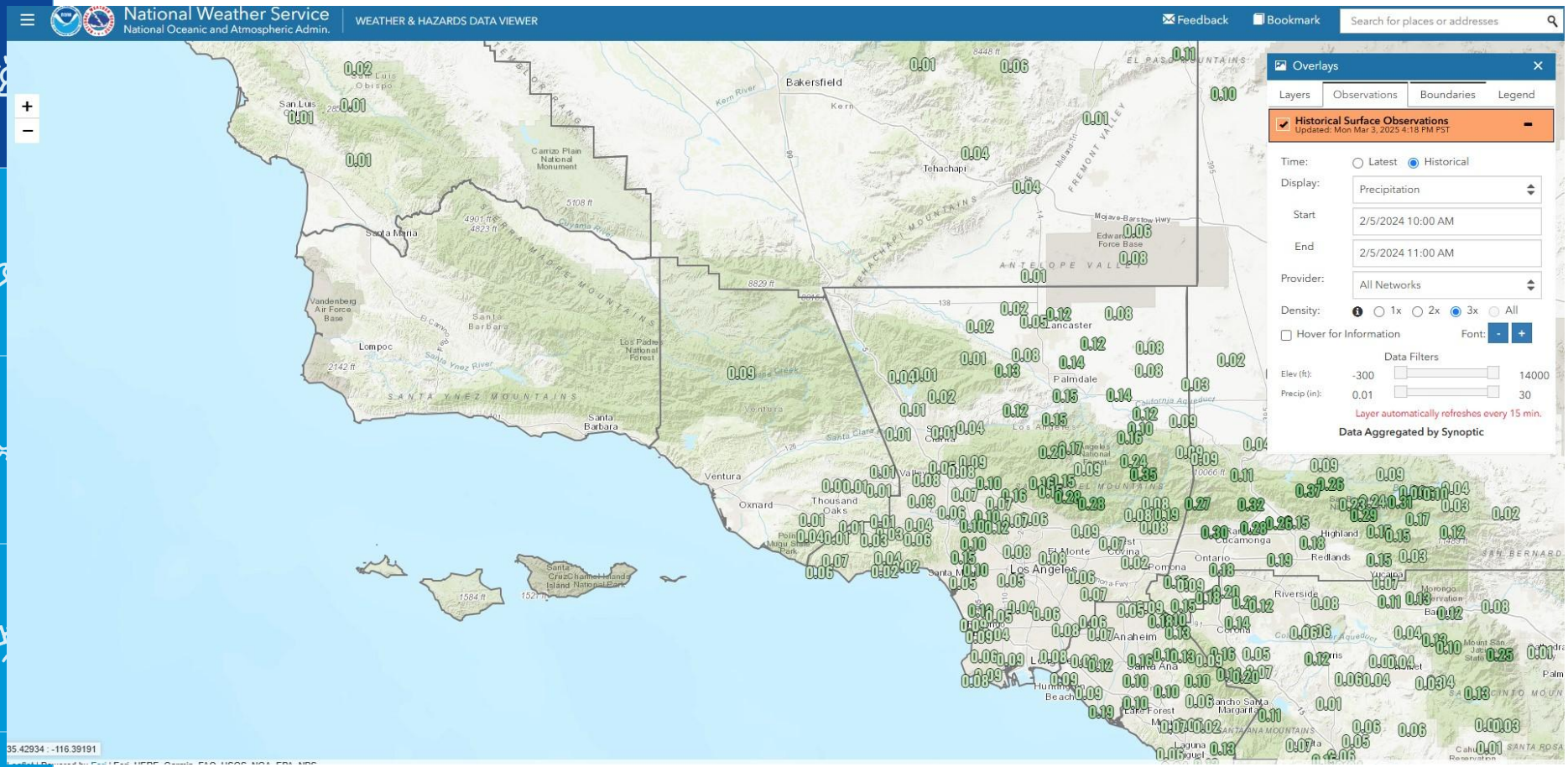
2/5/24 9AM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Boundaries
Legend
Historical Surface Observations
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
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Tehachapi
Lancaster
Palmdale
Santa Maria
Lompoc
Santa Barbara
Ventura
Oxnard
Thousand Oaks
Los Angeles
Anaheim
Santa Ana
Riverside
Ontario
Pomona
Redlands
Rancho Santa Margarita
Lake Forest
Hummingbird Beach
Vandenberg Air Force Base
Carrizo Plain National Monument
Los Padres National Forest
Santa Cruz Channel Islands National Park
Edwards Air Force Base
SANTA YNEZ MOUNTAINS
TEHACHAPI MOUNTAINS
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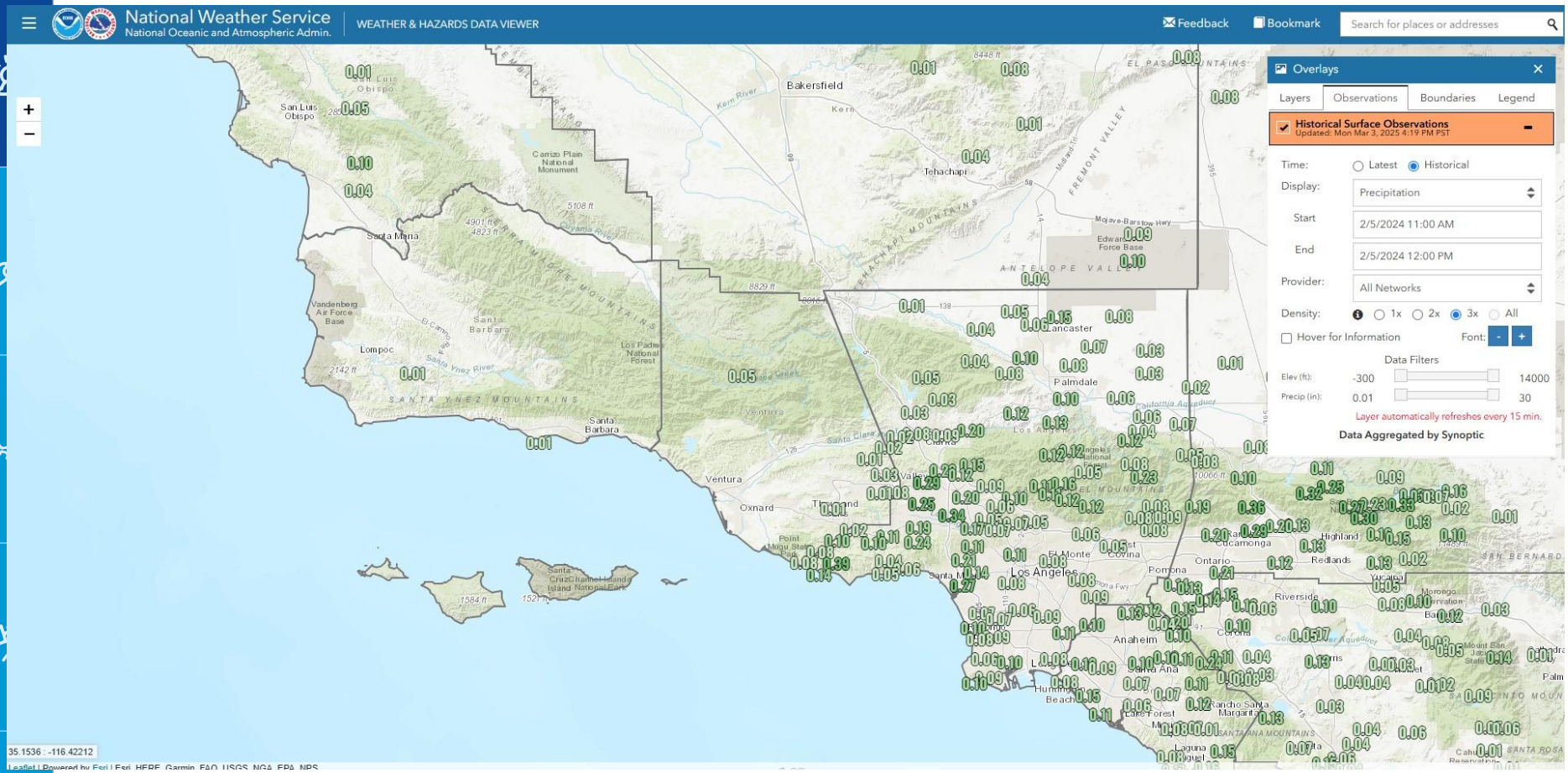
2/5/24 10AM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National Oceanic and Atmospheric Admin.
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Kern
Tehachapi
Lancaster
Palmdale
Santa Maria
Santa Barbara
Lompoc
Vandenberg Air Force Base
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Anaheim
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Ontario
Santa Cruz Island
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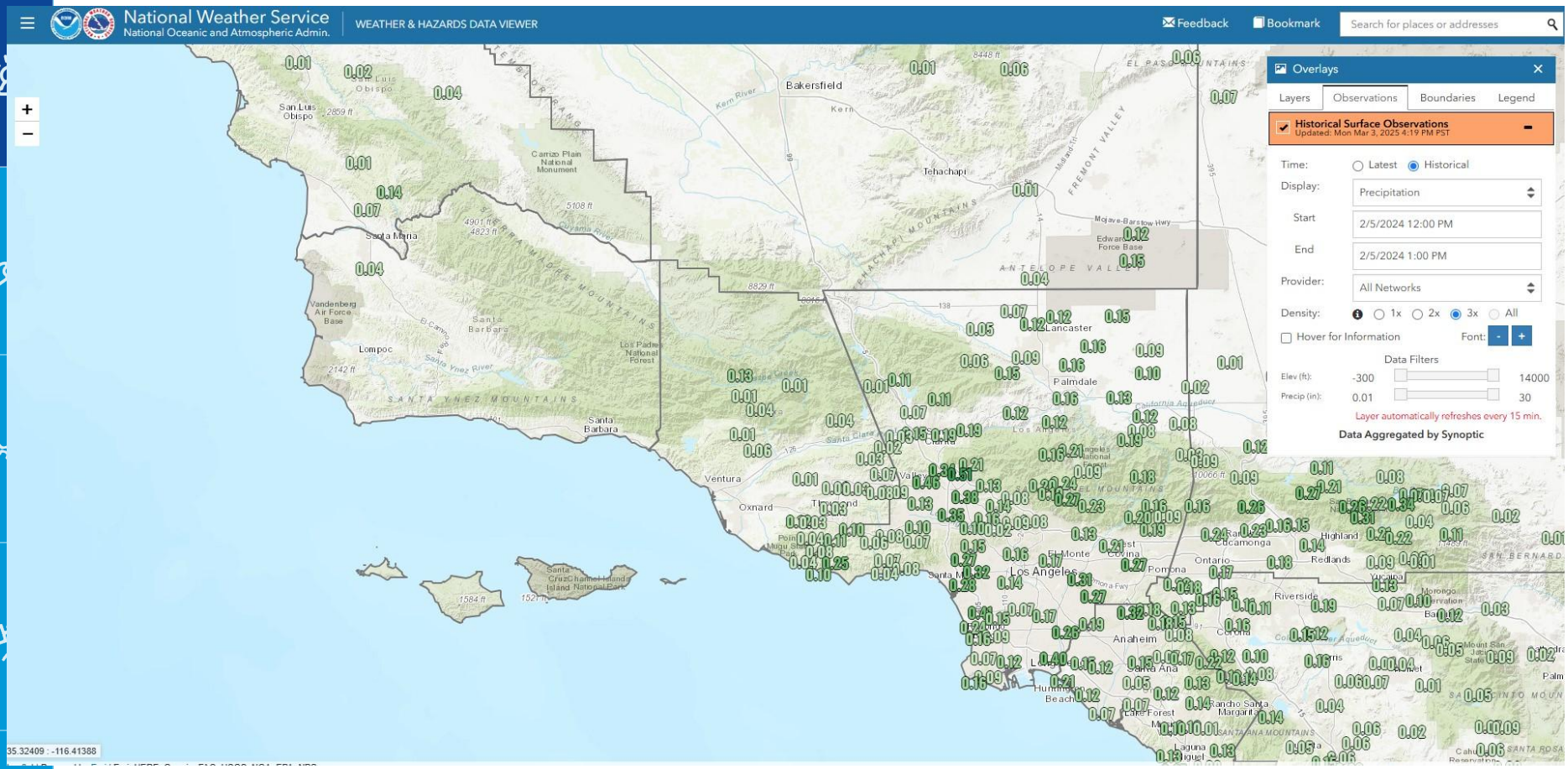
2/5/24 11AM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National Oceanic and Atmospheric Admin.
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Time: Latest Historical
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Hover for Information
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Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
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Bakersbield
Tehachapi
Lancaster
Palmdale
Santa Maria
Santa Barbara
Lompoc
Ventura
Oxnard
Los Angeles
Anaheim
Riverside
Ontario
Pomona
Cucamonga
Redlands
Highland
Lake Forest
Rancho Santa Margarita
Laguna Beach
Mission Viejo
Carrizo Plain National Monument
Vandenberg Air Force Base
Edwards Air Force Base
Santa Cruz Island
Santa Rosa Island
Channel Islands National Park
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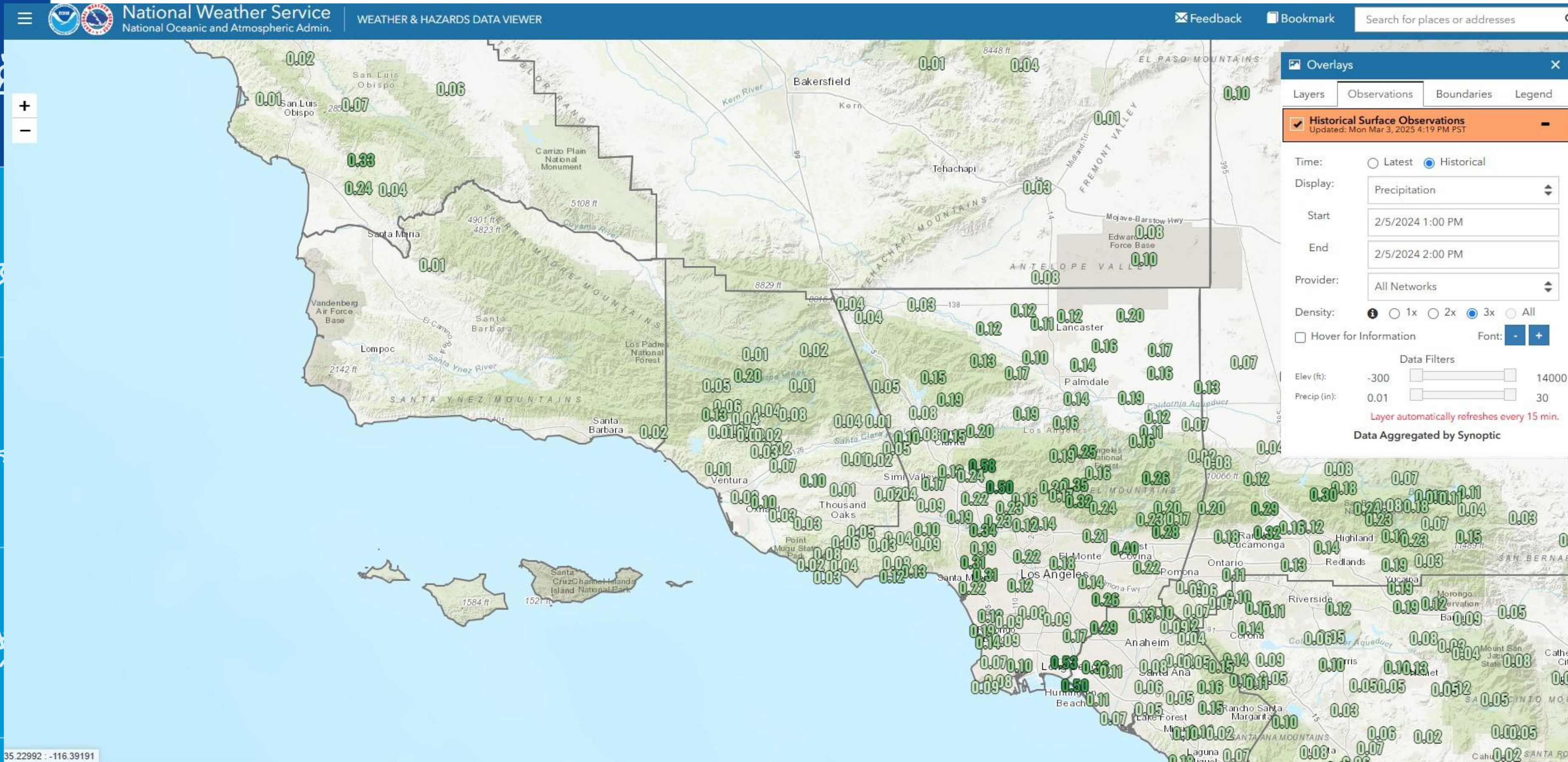
2/5/24 12PM


National Weather Service
National Oceanic and Atmospheric Admin.
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Latest
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2/5/2024 2:00 PM
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All Networks
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2x
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All
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Data Aggregated by Synoptic
Bakersfield
Tehachapi
Santa Maria
Lompoc
Santa Barbara
Ventura
Thousand Oaks
Lancaster
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Ontario
Redlands
Pomona
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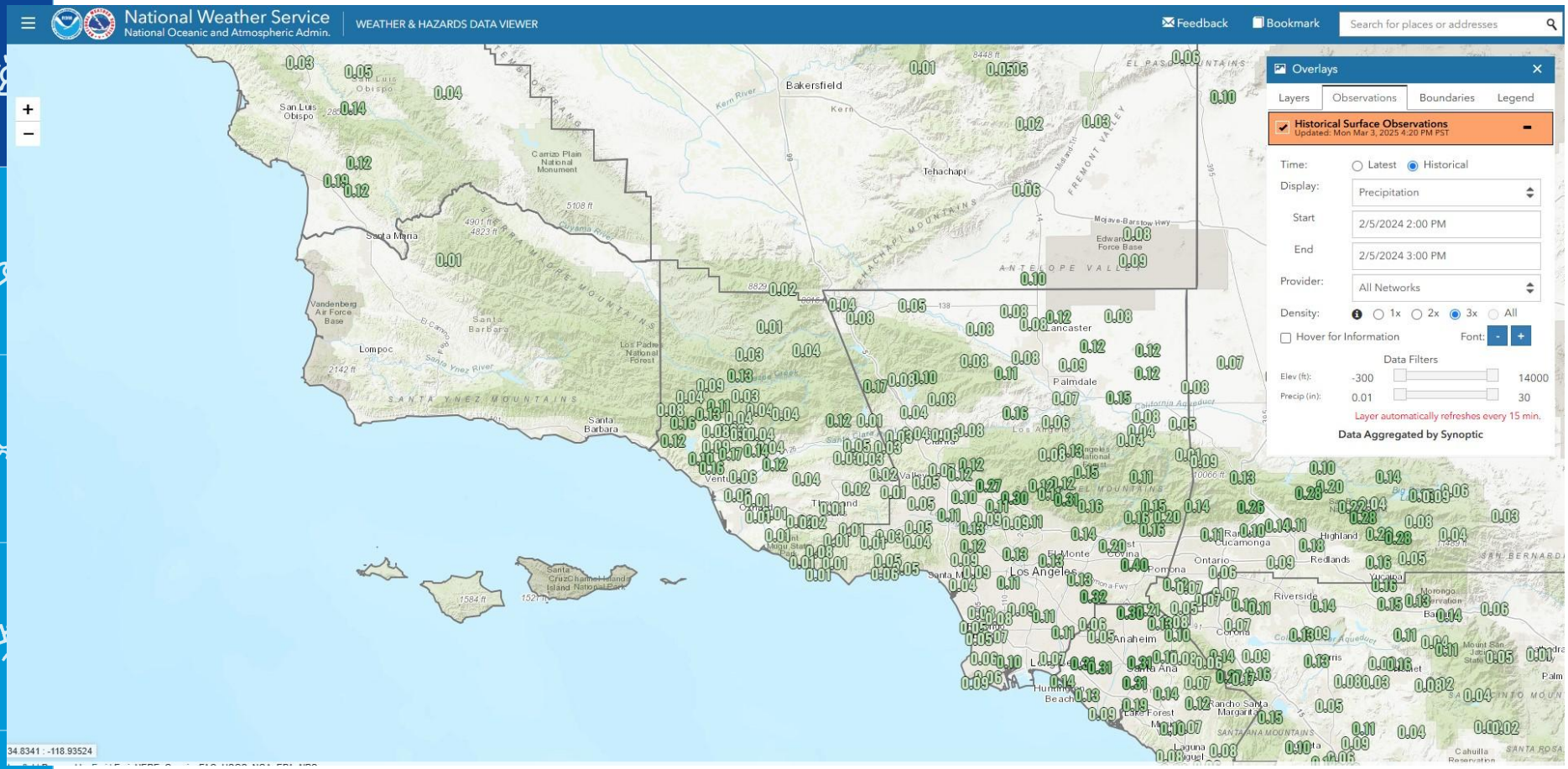
2/5/24 1PM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National Oceanic and Atmospheric Admin.
WEATHER & HAZARDS DATA VIEWER
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Observations
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Legend
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Font:
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Data Aggregated by Synoptic
Bakersbield
San Luis Obispo
Santa Maria
Santa Barbara
Lompoc
Vandenberg Air Force Base
Tehachapi
Lancaster
Palmdale
Los Angeles
Pomona
Ontario
Riverside
Anaheim
Santa Ana
Irvine
Lake Forest
Rancho Santa Margarita
Mission Viejo
Laguna Niguel
Cucamonga
Redlands
Highland
El Monte
Covina
Hummingbird Beach
Santa Cruz Island
Santa Rosa Island
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Los Padres National Forest
Edwards Air Force Base
Mojave-Barstow Hwy
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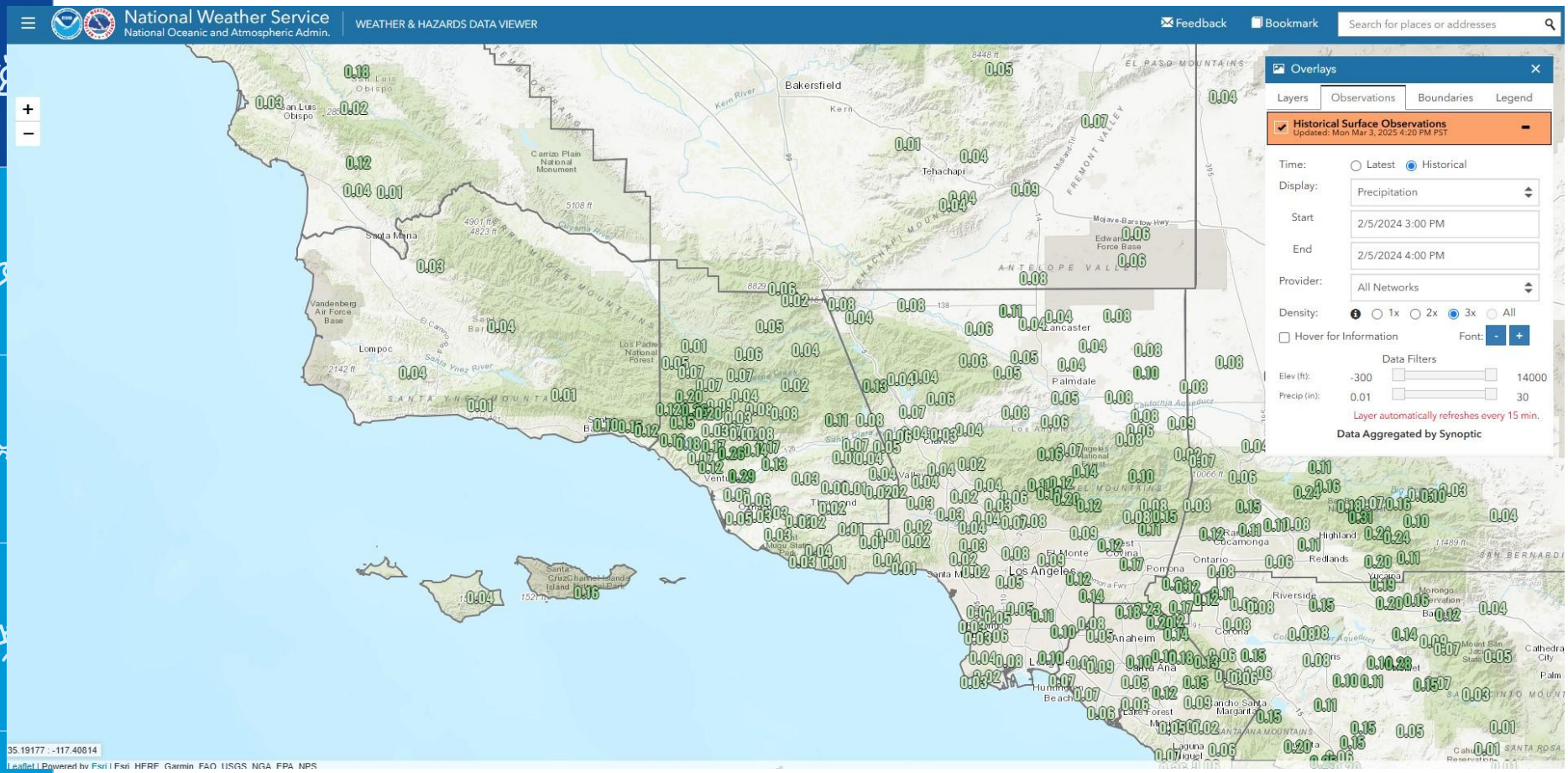
2/5/24 2PM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National Oceanic and Atmospheric Admin.
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Updated: Mon Mar 3, 2025 4:20 PM PST
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All Networks
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2x
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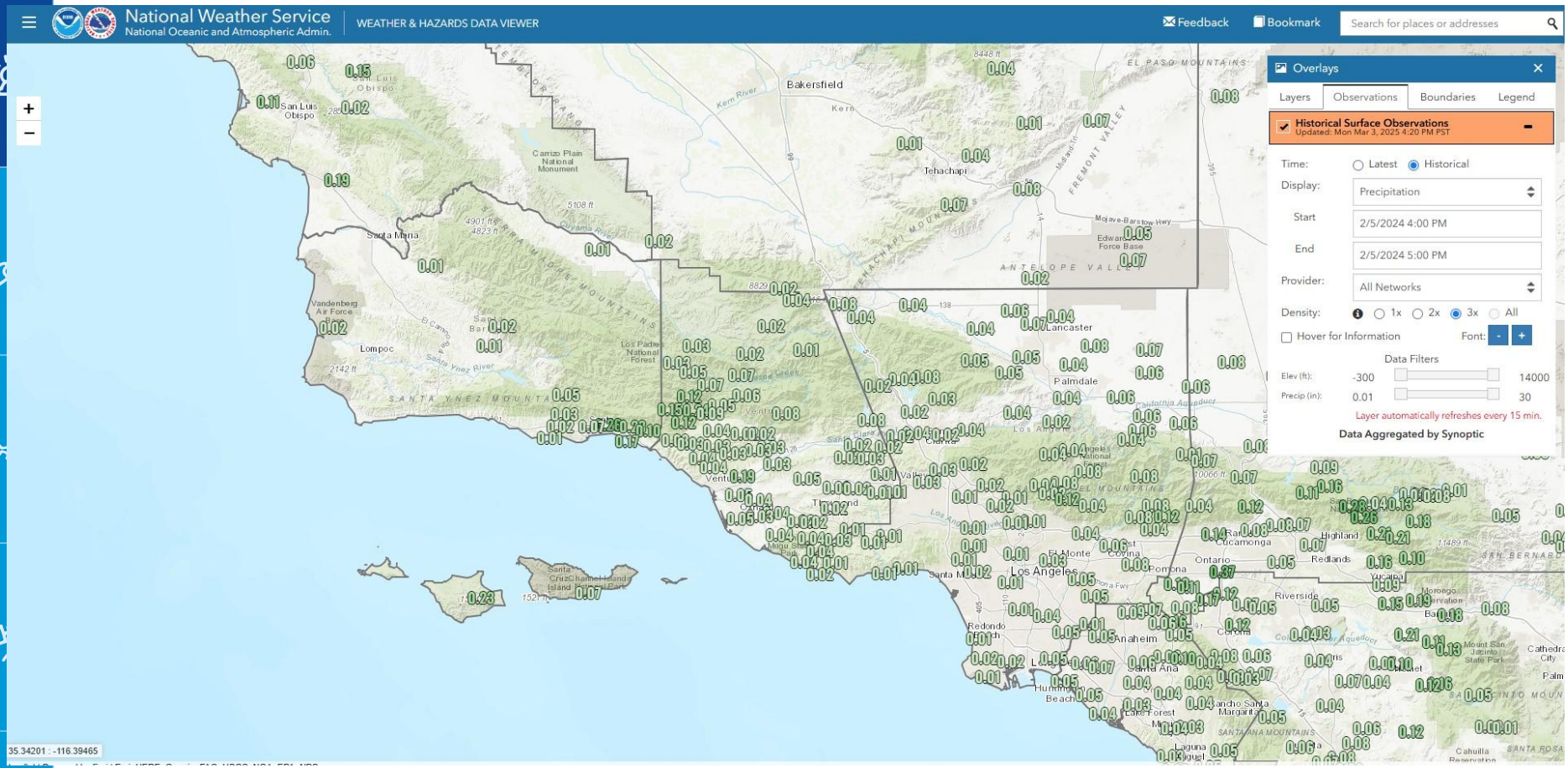
Precip (in):
0.01
30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Lancaster
Palmdale
Los Angeles
Santa Barbara
Santa Maria
Lompoc
Vandenberg Air Force Base
Anaheim
Santa Ana
Riverside
Ontario
Pomona
Redlands
Cucamonga
Carrizo Plain National Monument
Tehachapi
Edwards Air Force Base
Mojave-Barstow Hwy
Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

2/5/24 3PM


National Weather Service
National Oceanic and Atmospheric Admin.
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Feedback
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Search for places or addresses
Overlays
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Legend
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Bakersbield
Santa Maria
Lompoc
Vandenberg Air Force
Carrizo Plain National Monument
Tehachapi
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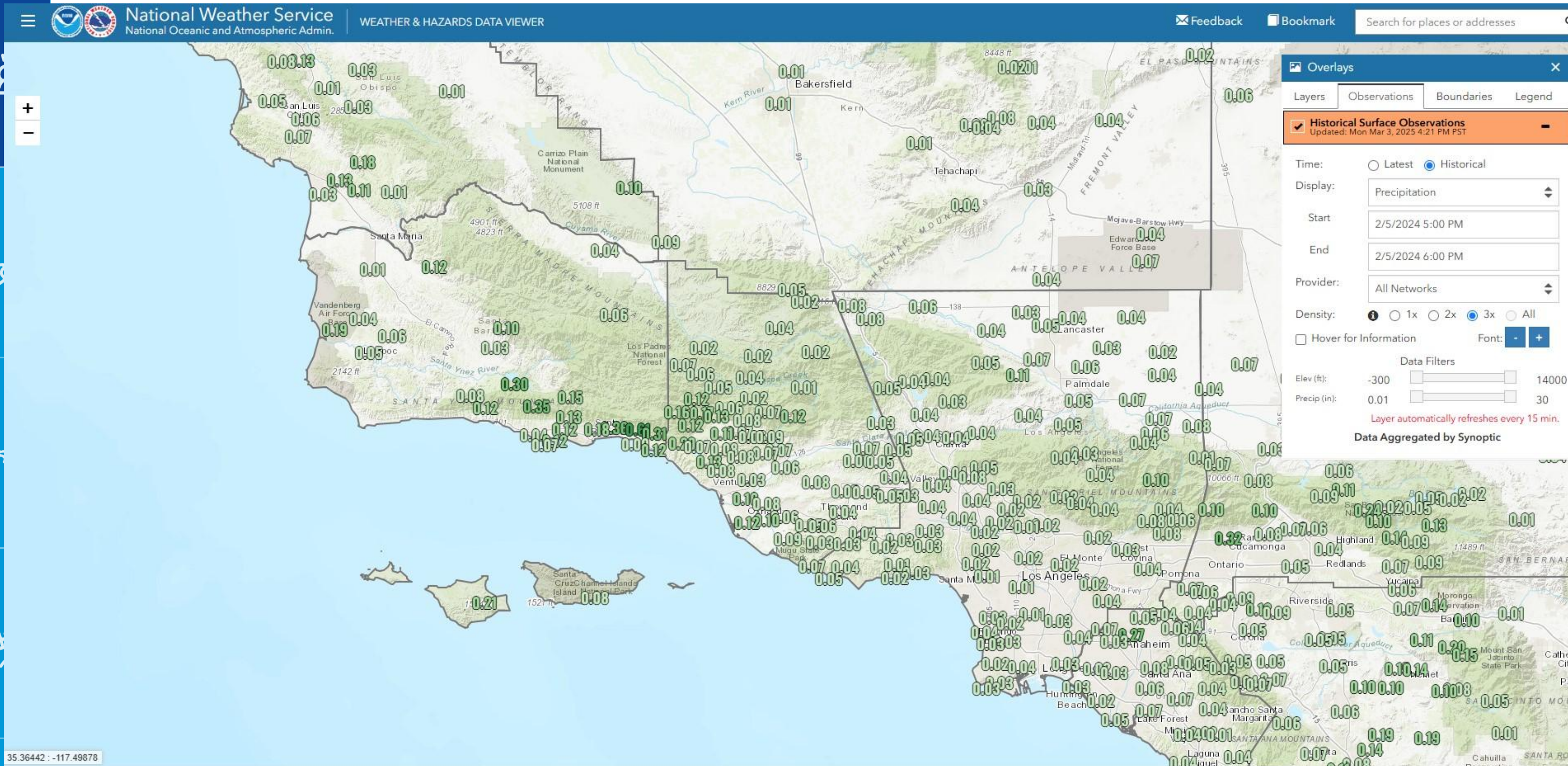
2/5/24 4PM


National Weather Service
National Oceanic and Atmospheric Admin.
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Data Aggregated by Synoptic
Bakersfield
Tehachapi
Lancaster
Palmdale
Santa Maria
Los Angeles
Ontario
Riverside
Redlands
Anaheim
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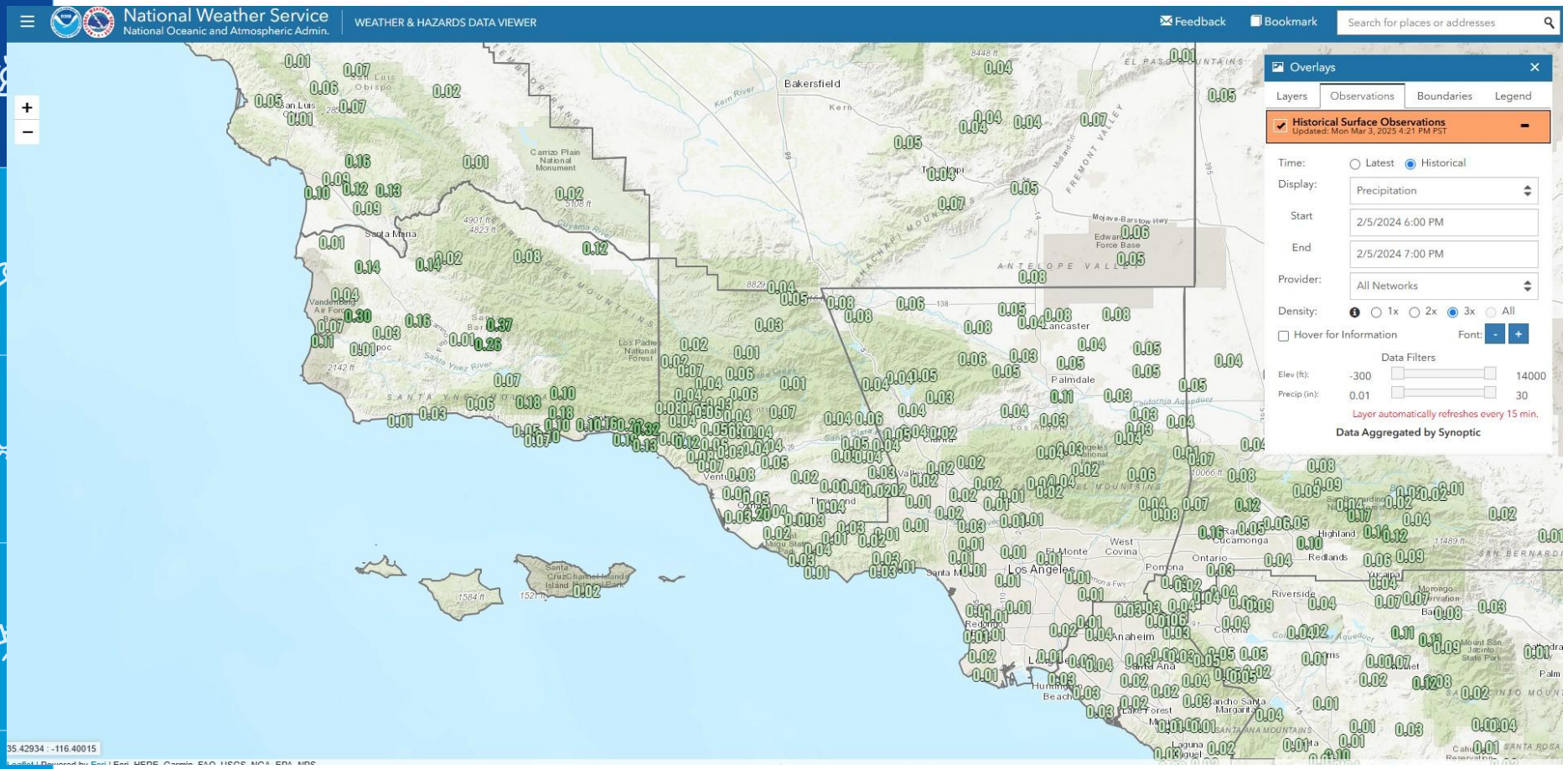
2/5/24 5PM


National Weather Service
National Oceanic and Atmospheric Admin.
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Search for places or addresses
Overlays
Layers
Observations
Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:21 PM PST
Time: Latest Historical
Display: Precipitation
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End 2/5/2024 7:00 PM
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Hover for Information
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Data Filters
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Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Santa Maria
Lancaster
Palmdale
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Pomona
Riverside
Anaheim
Santa Ana
Ontario
Redlands
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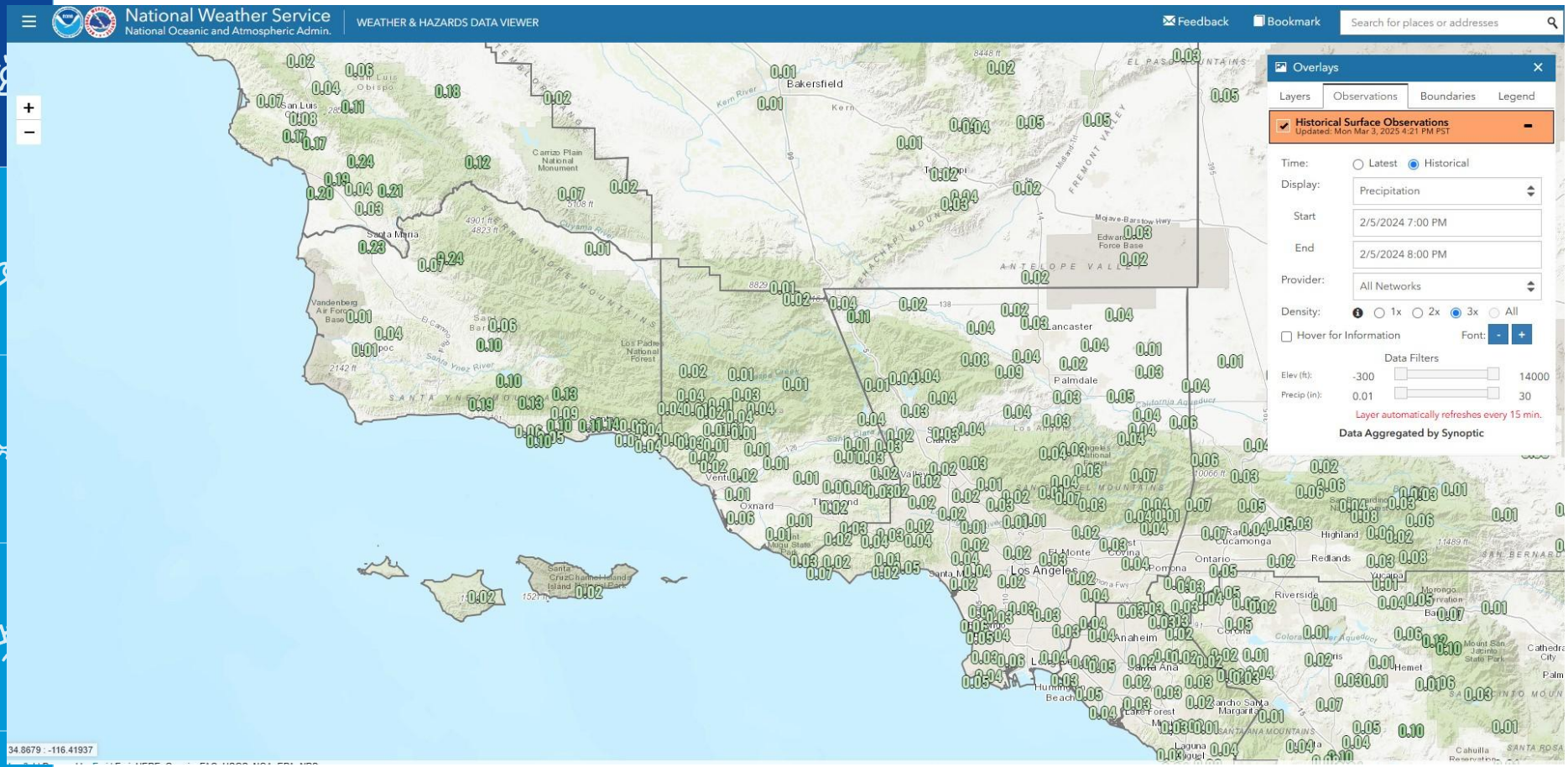
2/5/24 6PM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National Oceanic and Atmospheric Admin.
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Search for places or addresses
Overlays
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Boundaries
Legend
Historical Surface Observations
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Time: Latest Historical
Display: Precipitation
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End 2/5/2024 8:00 PM
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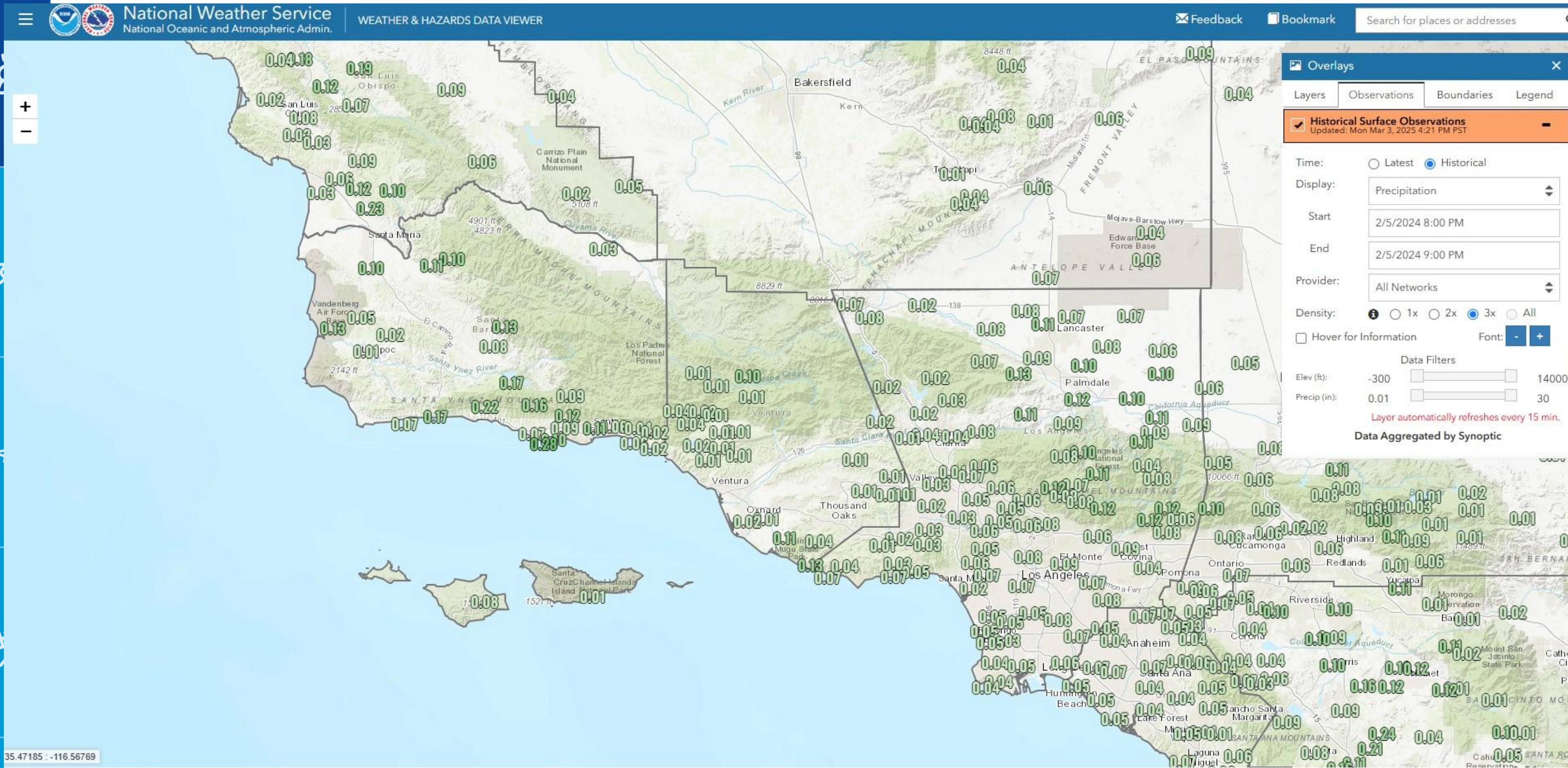
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National Oceanic and Atmospheric Admin.
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Layers
Observations
Boundaries
Legend
Historical Surface Observations
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Data Aggregated by Synoptic
Bakersfield
Santa Maria
Lancaster
Palmdale
Ventura
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Thousand Oaks
Los Angeles
Anaheim
Santa Ana
Riverside
Ontario
Pomona
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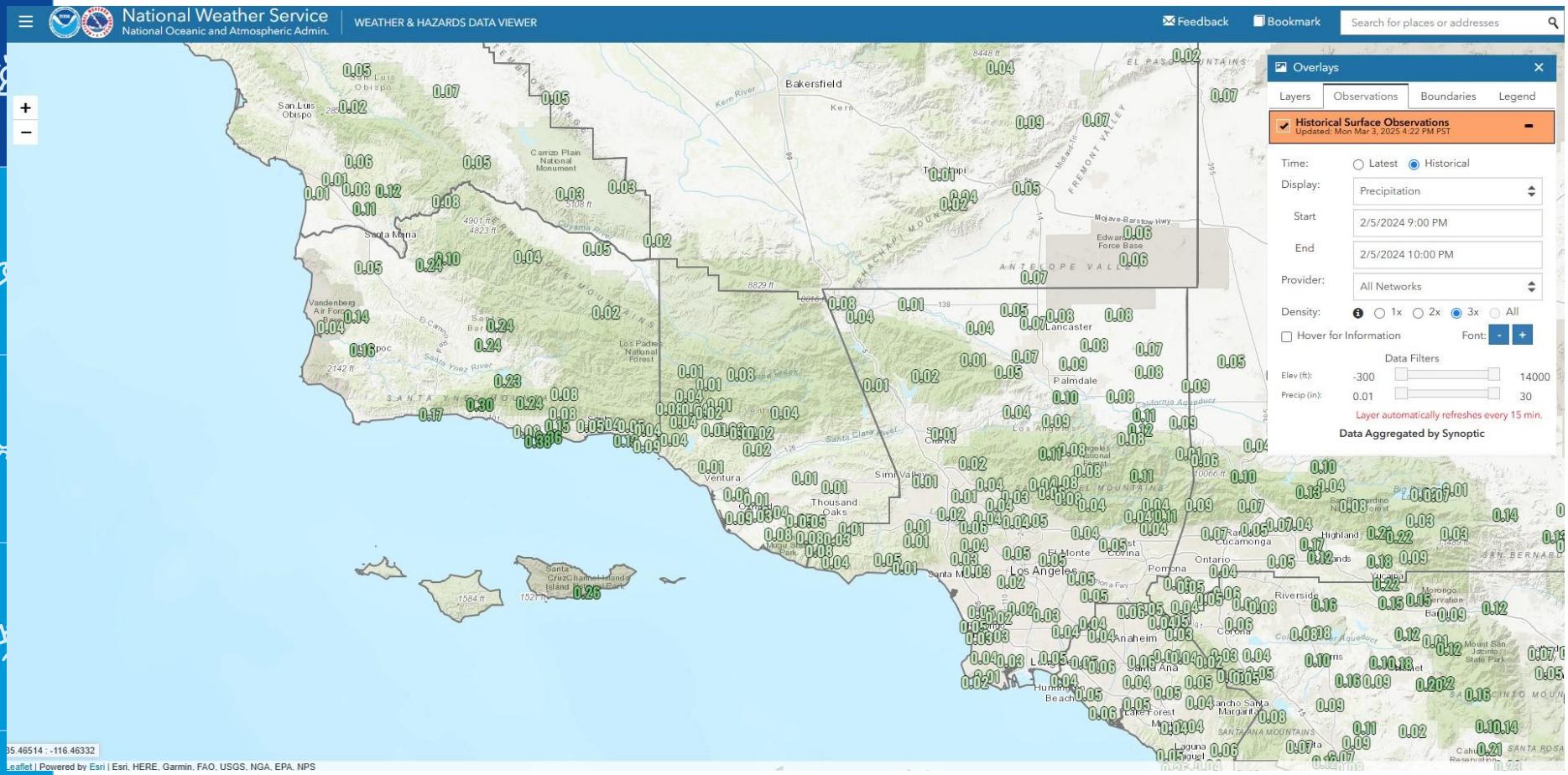
2/5/24 8PM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National Oceanic and Atmospheric Admin.
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Boundaries
Legend
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Font: - +
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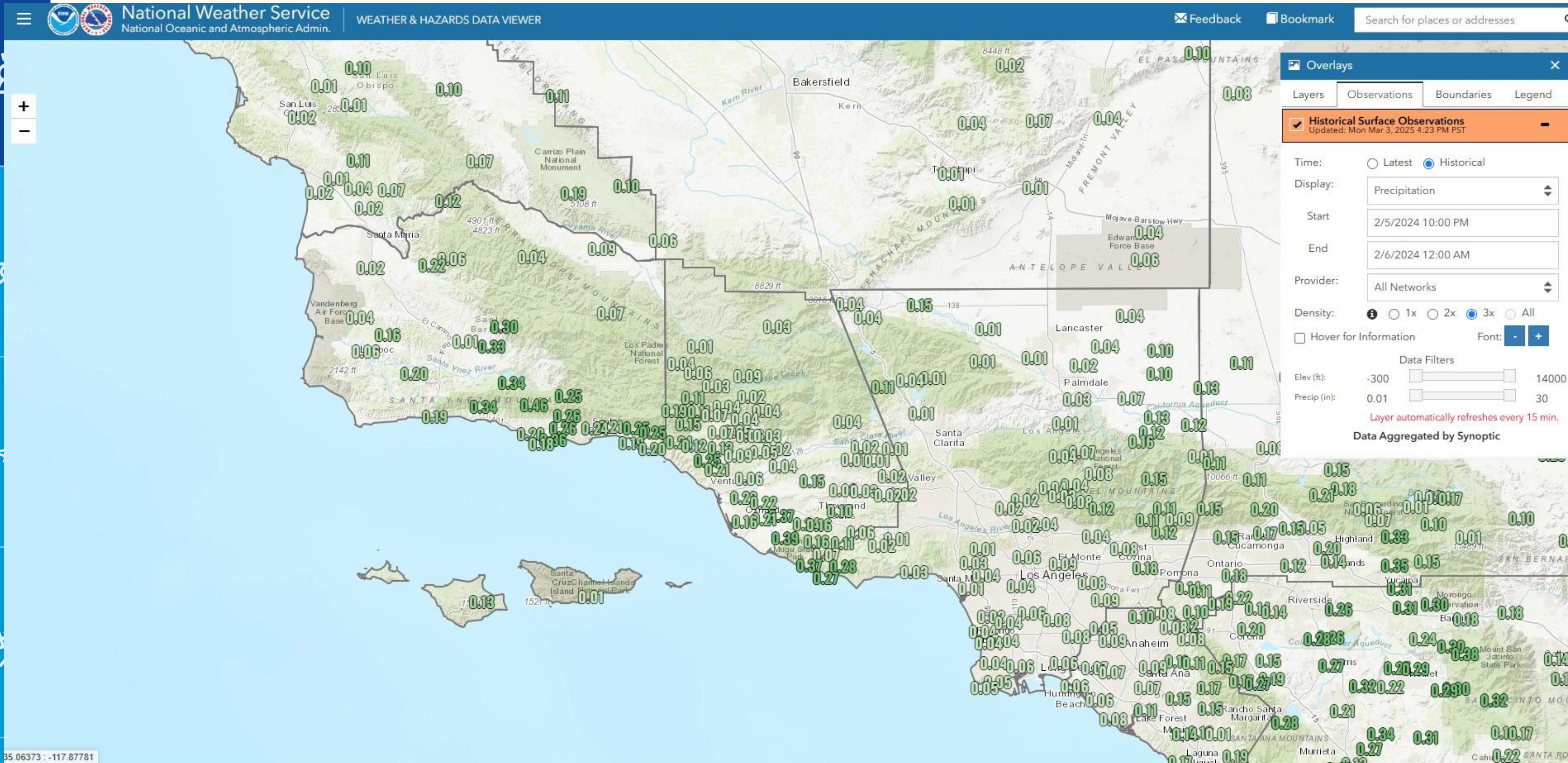
Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
San Luis Obispo
Santa Maria
Lancaster
Palmdale
Ventura
Thousand Oaks
Los Angeles
Pomona
Riverside
Anaheim
Santa Ana
Long Beach
Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

2/5/24 9PM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Bookmark
Search for places or addresses
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Boundaries
Legend
Historical Surface Observations
Updated: Mon Mar 3, 2025 4:23 PM PST
Time: Latest Historical
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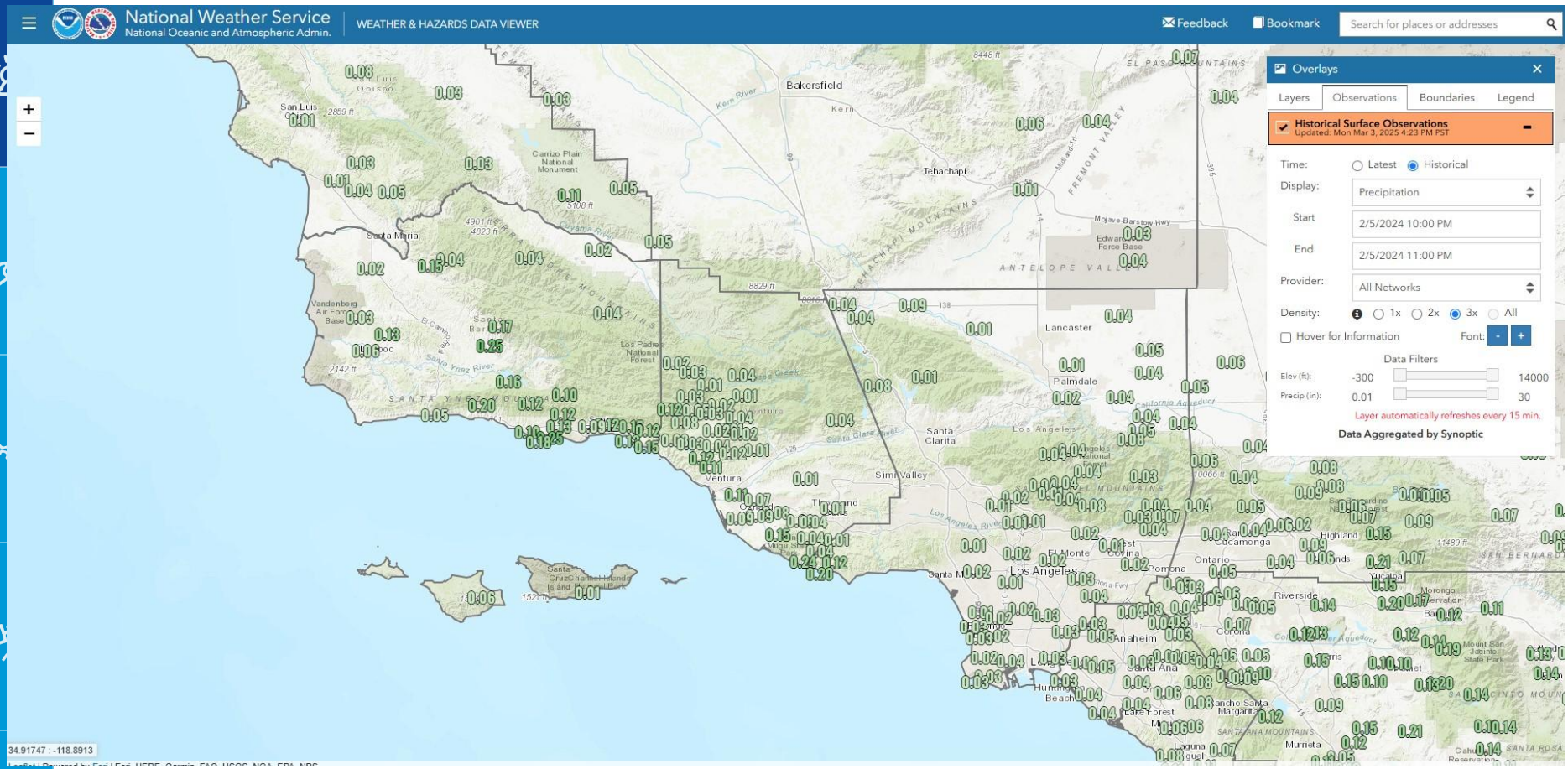
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Display: Precipitation
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersbield
Tehachapi
Lancaster
Palmdale
Santa Maria
Vandenberg Air Force Base
Carrizo Plain National Monument
Los Padres National Forest
Santa Clarita
Simi Valley
Ventura
Los Angeles
Pomona
Ontario
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Irvine
Mission Viejo
Lake Forest
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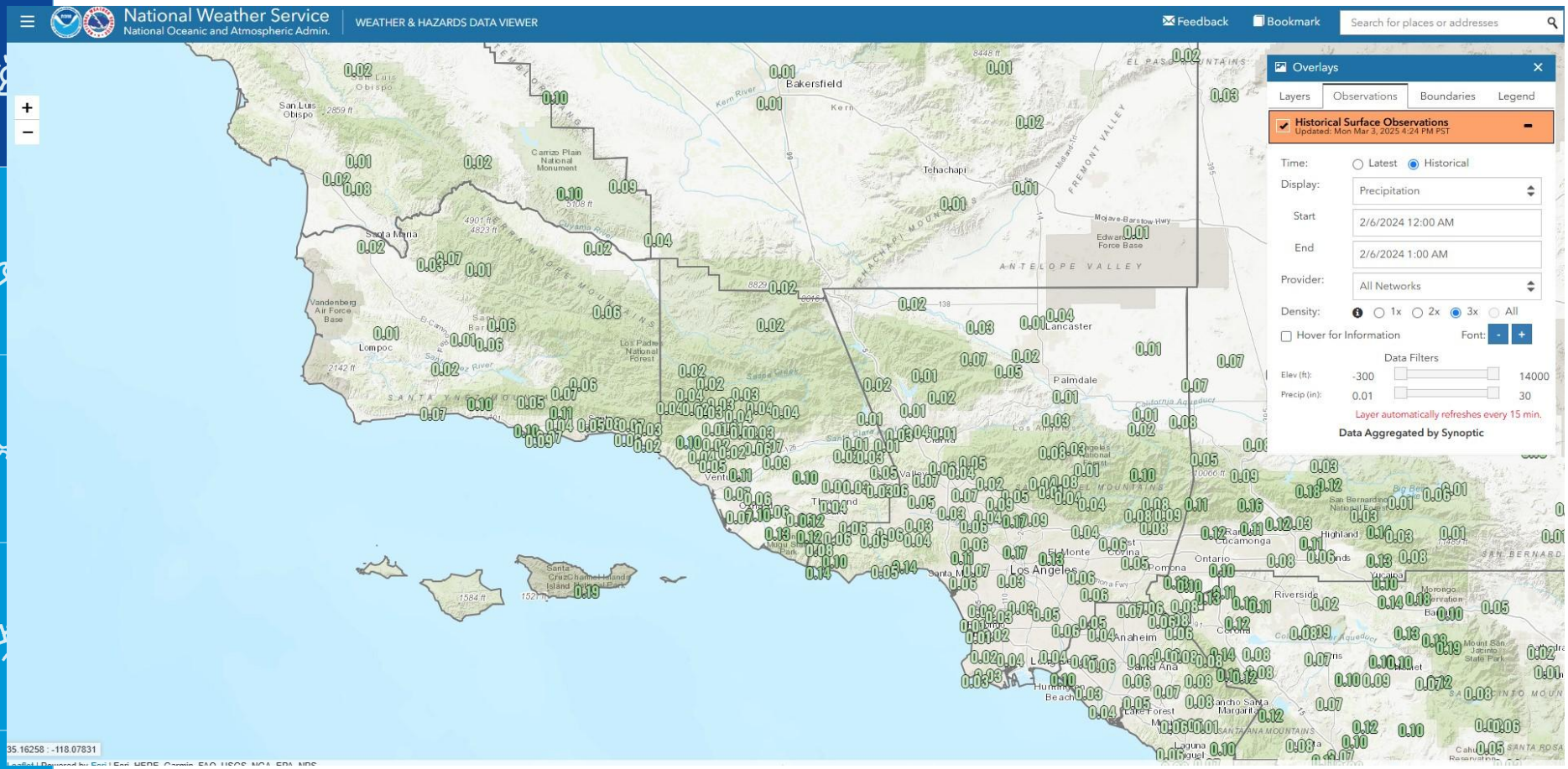
2/5/24 11PM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National Oceanic and Atmospheric Admin.
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Tehachapi
Lancaster
Palmdale
Santa Maria
Lompoc
Vandenberg Air Force Base
Los Angeles
Riverside
Ontario
Pomona
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Carrizo Plain National Monument
Edwards Air Force Base
ANTELOPE VALLEY
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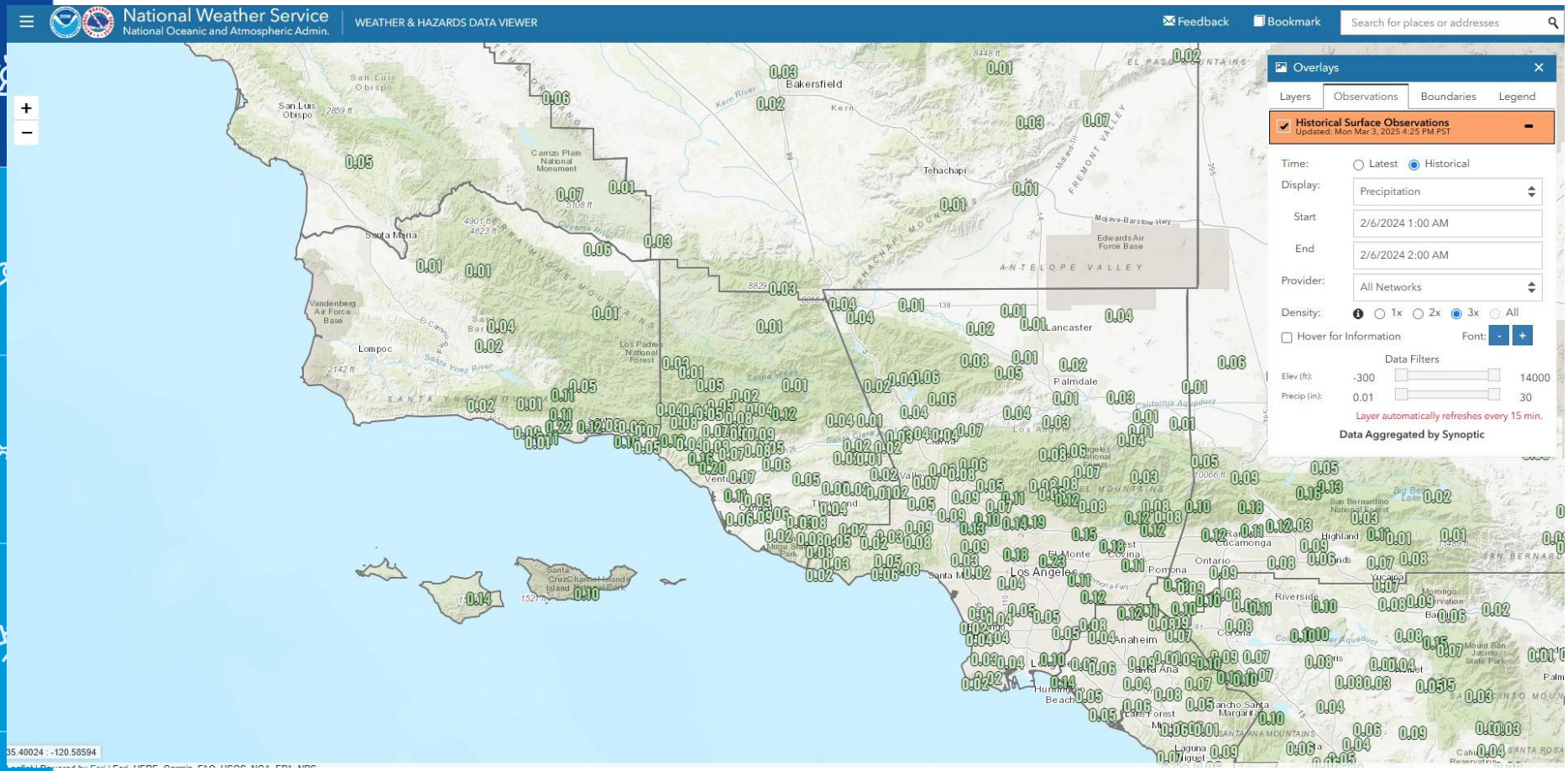
2/6/24 12AM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Historical Surface Observations
Updated: Mon Mar 3, 2025 4:25 PM PST
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
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San Luis Obispo
Santa Maria
Lompoc
Vandenberg Air Force Base
Carrizo Plain National Monument
Tehachapi
Edwards Air Force Base
Lancaster
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Los Angeles
Pomona
Riverside
Anaheim
Santa Ana
Long Beach
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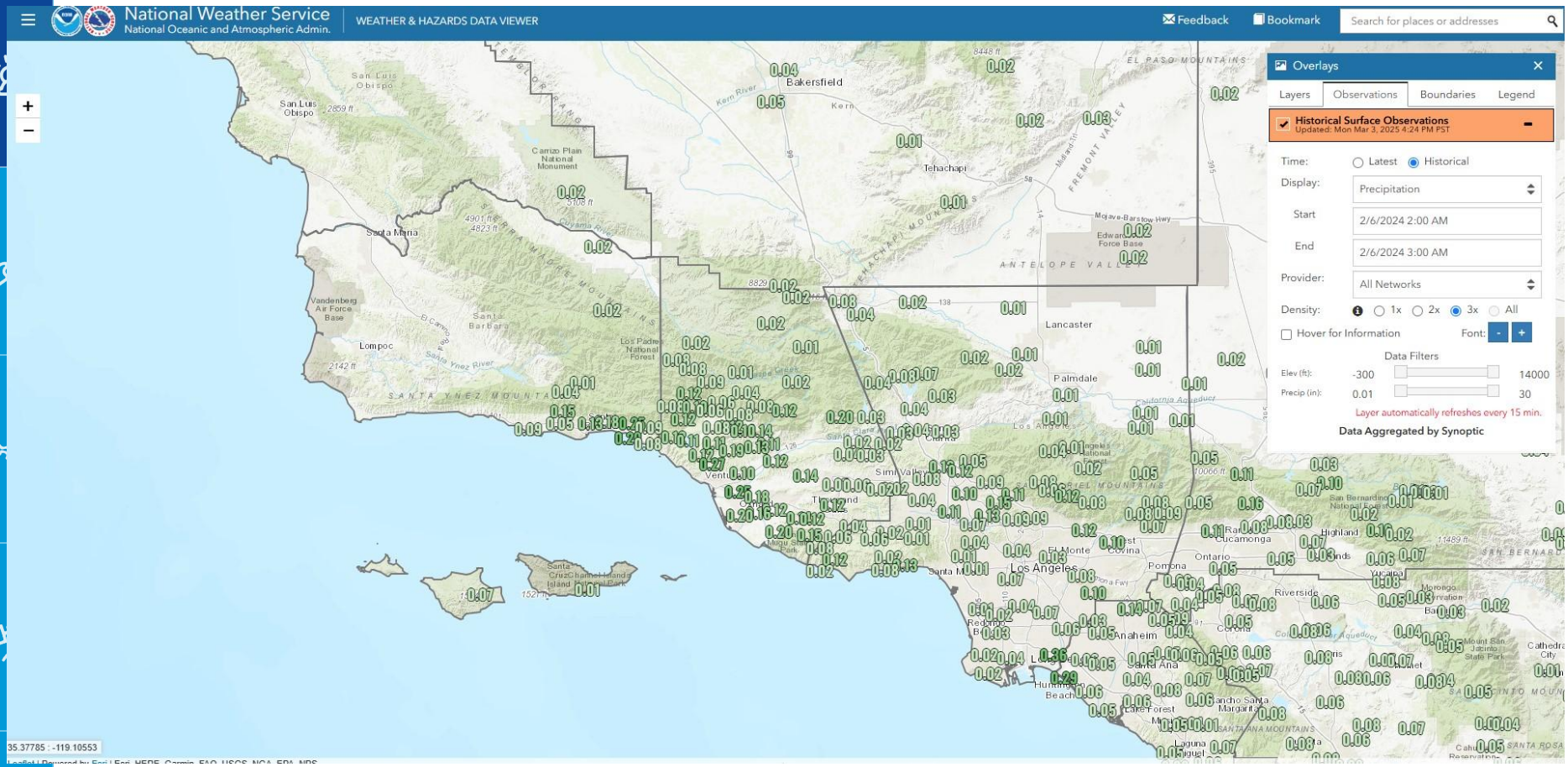
SANTA YNEZ MOUNTAINS
SAN GABRIEL MOUNTAINS
SANTA ANA MOUNTAINS

2/6/24 1AM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Updated: Mon Mar 3, 2025 4:24 PM PST
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Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
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San Luis Obispo
Santa Maria
Lompoc
Santa Barbara
Lancaster
Palmdale
Tehachapi
Los Angeles
Pomona
Riverside
Anaheim
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Edwards Air Force Base
Carrizo Plain National Monument
Santa Cruz Island
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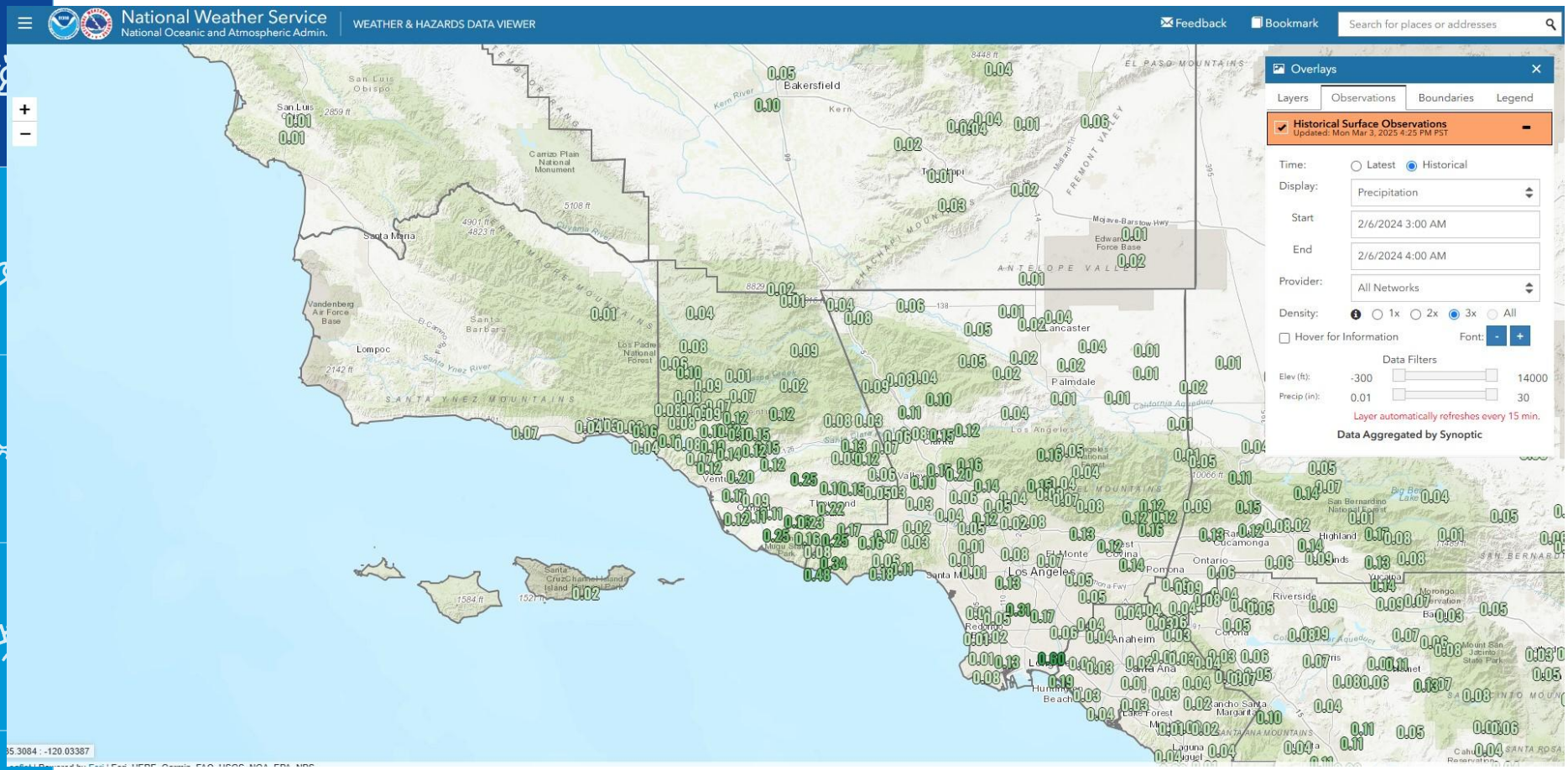
2/6/24 2AM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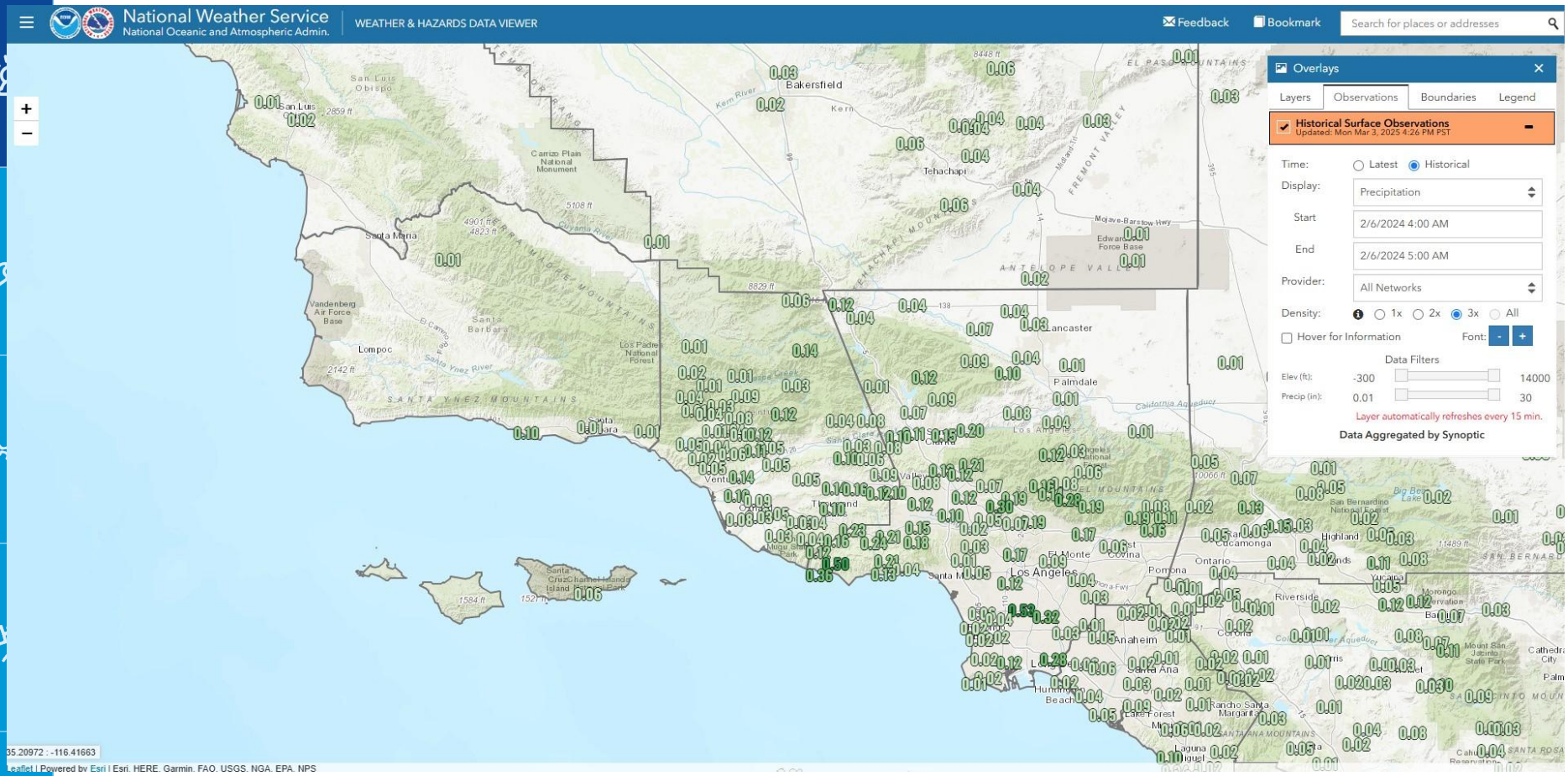
2/6/24 3AM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Display: Precipitation
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Precip (in): 0.01 30
Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Lancaster
Palmdale
Los Angeles
Santa Barbara
Lompoc
Santa Maria
Vandenberg Air Force Base
Carrizo Plain National Monument
Tehachapi
Pomona
Riverside
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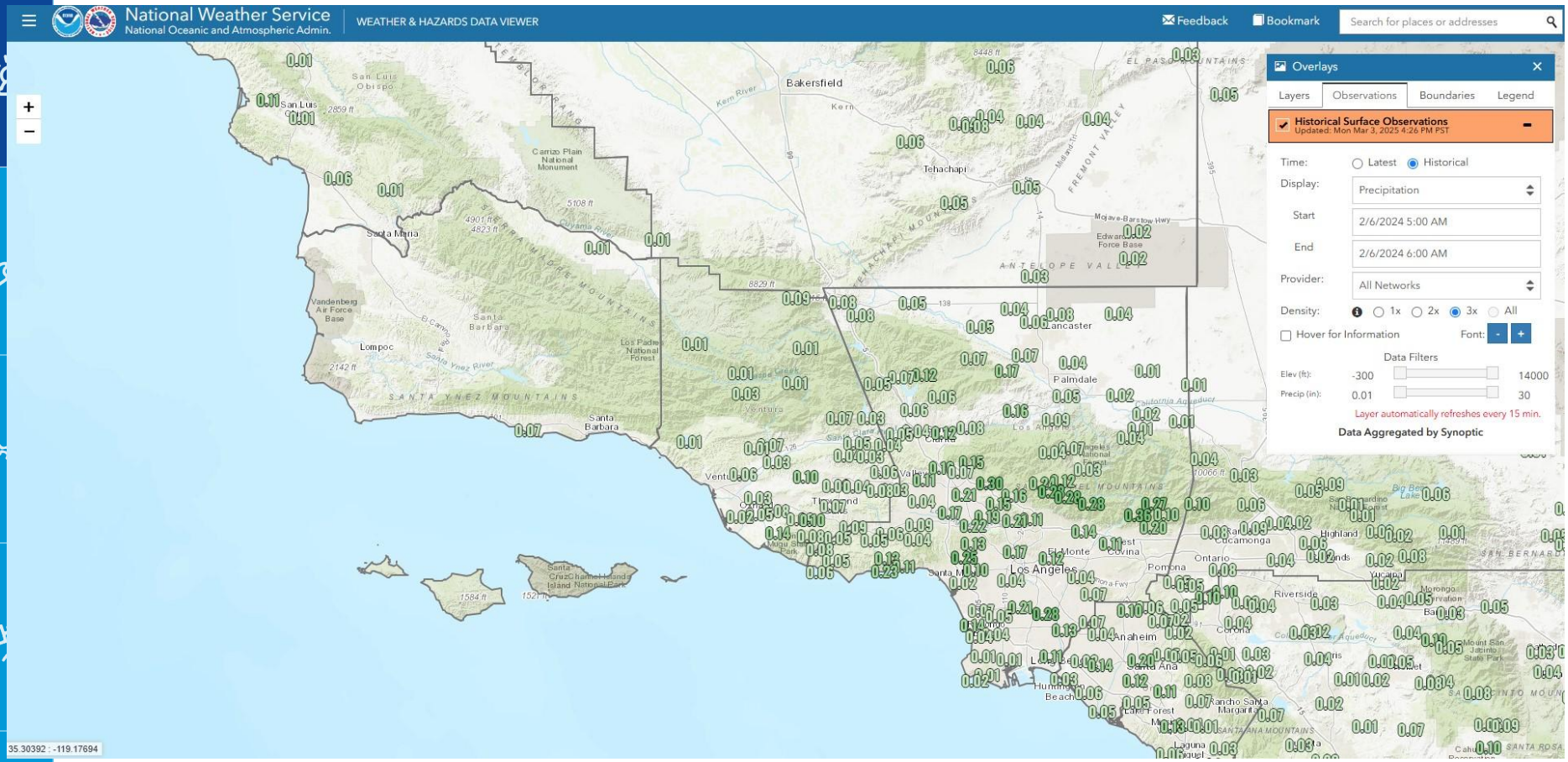
Santa Ana
Ontario
Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

2/6/24 4AM


National Weather Service
National Oceanic and Atmospheric Admin.
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Historical Surface Observations
Updated: Mon Mar 3, 2025 4:26 PM PST
Time: Latest Historical
Display: Precipitation
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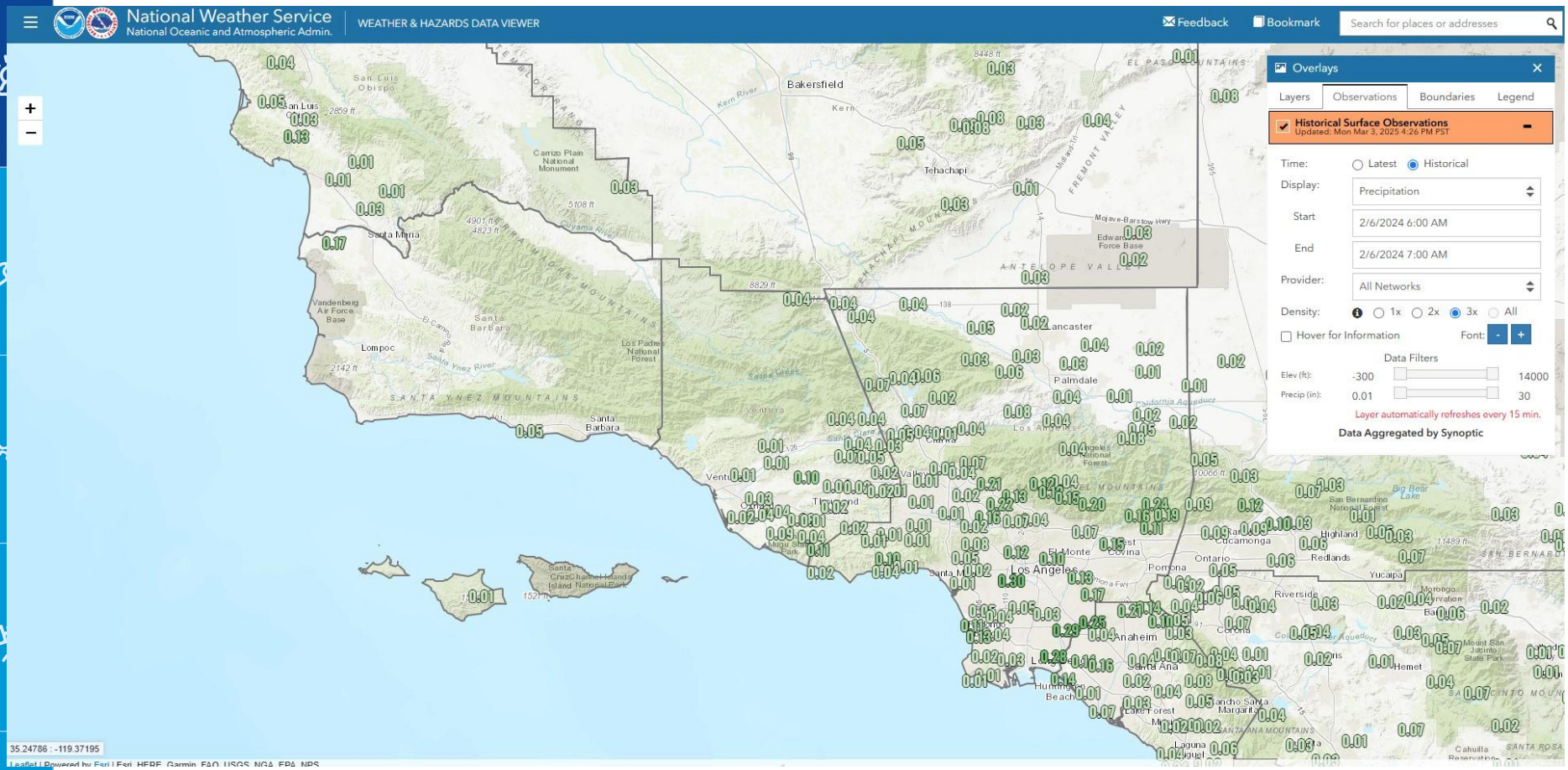
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National Oceanic and Atmospheric Admin.
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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
Bakersfield
Santa Maria
Santa Barbara
Lompoc
Lancaster
Palmdale
Los Angeles
Pomona
Riverside
Anaheim
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Ontario
Vandenberg Air Force Base
Edwards Air Force Base
Tehachapi
Carrizo Plain National Monument
Los Padres National Forest
San Bernardino National Forest
Santa Cruz Island
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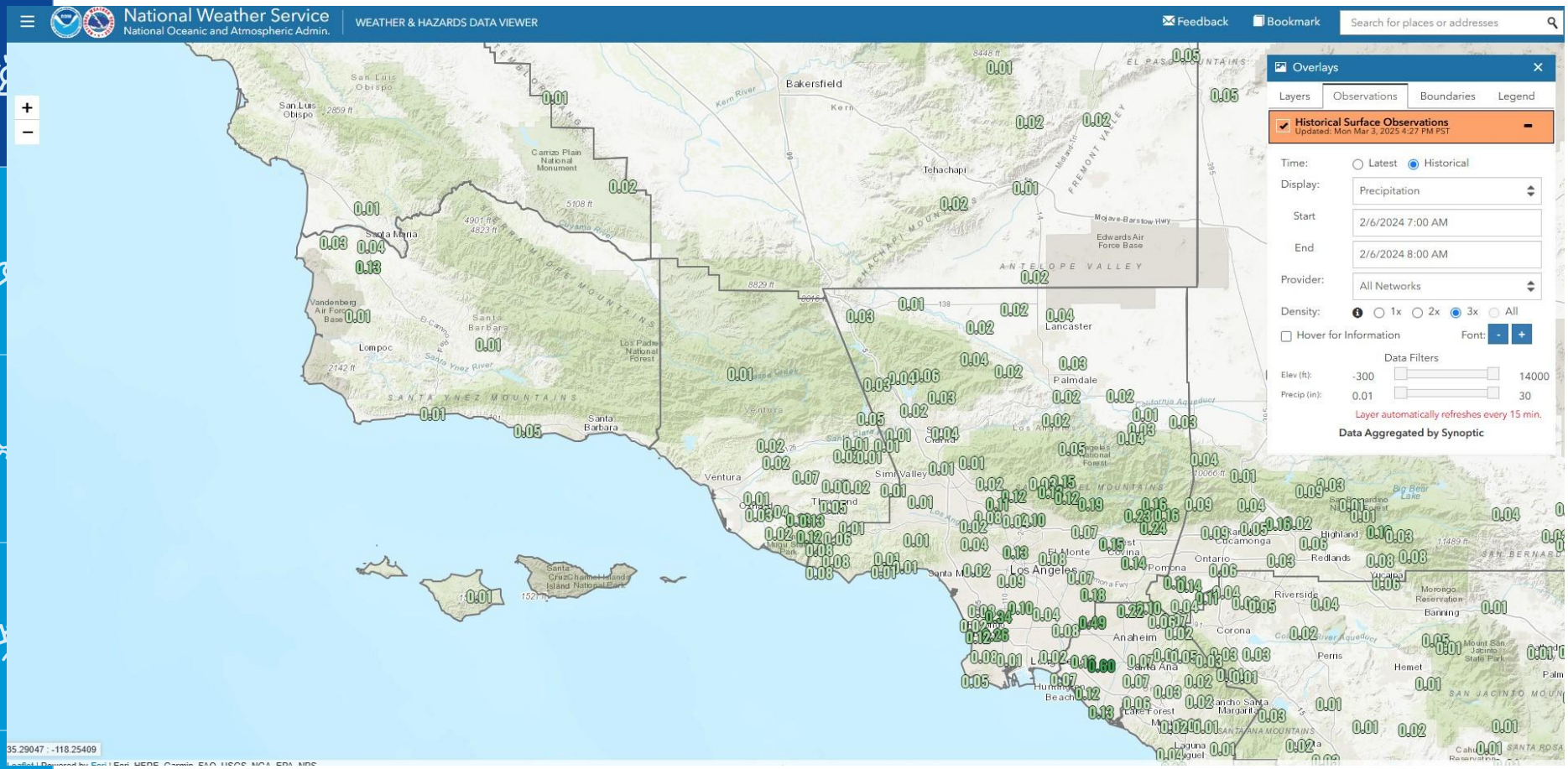
2/6/24 6AM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Data Aggregated by Synoptic
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San Luis Obispo
Santa Maria
Lompoc
Santa Barbara
Ventura
Simi Valley
Lancaster
Palmdale
Tehachapi
Edwards Air Force Base
Los Angeles
Anaheim
Corona
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Ontario
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Santa Ana
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Hemet
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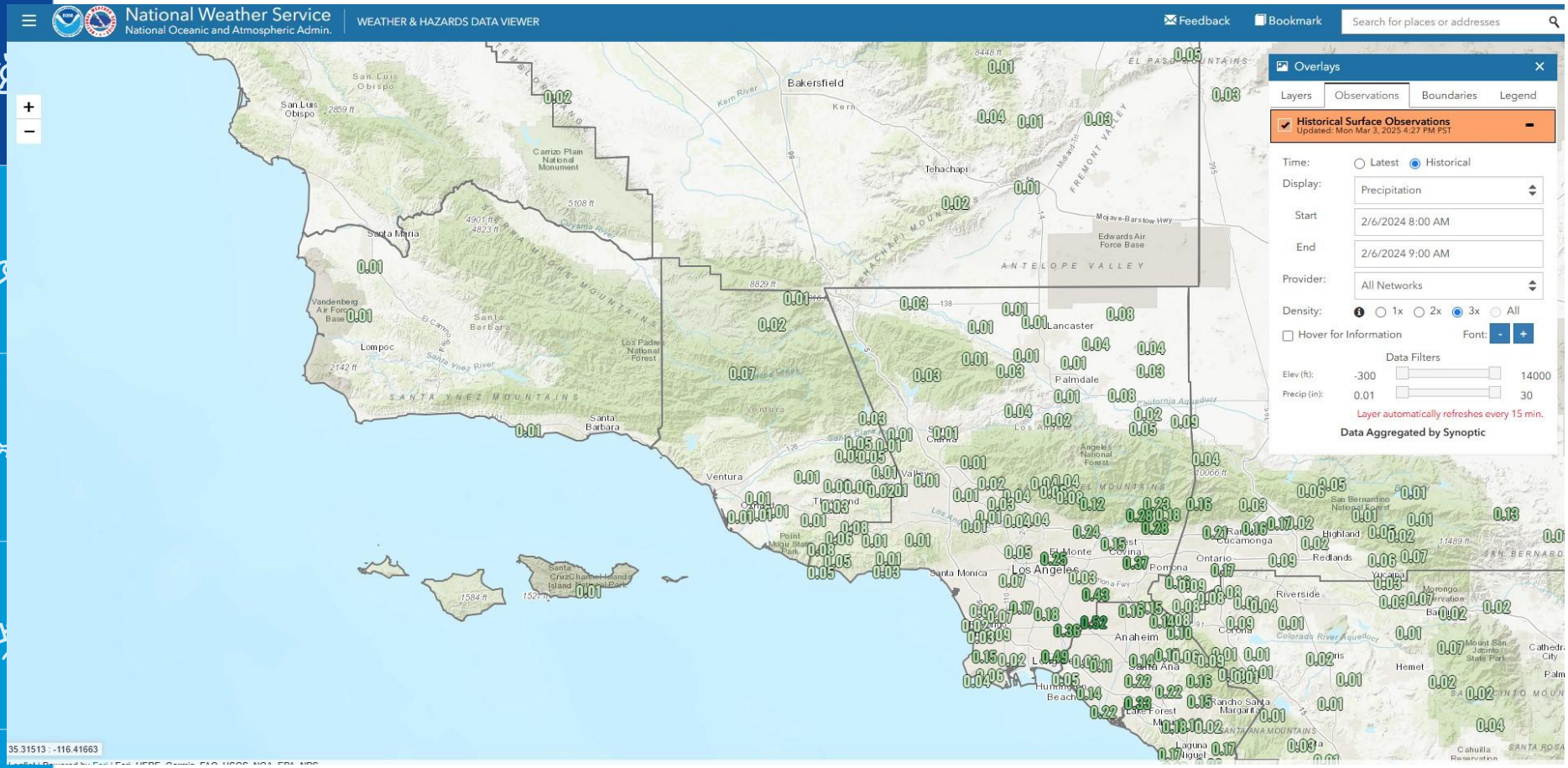
2/6/24 7AM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Layer automatically refreshes every 15 min.
Data Aggregated by Synoptic
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Lancaster
Palmdale
Tehachapi
Edwards Air Force Base
ANTELOPE VALLEY
Santa Maria
Lompoc
Vandenberg Air Force Base
Santa Barbara
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Los Angeles
Santa Monica
Pomona
Ontario
Riverside
Anaheim
Santa Ana
Long Beach
Lake Forest
Rancho Santa Margarita
Hemet
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SANTA YNEZ MOUNTAINS
SAN GABRIEL MOUNTAINS
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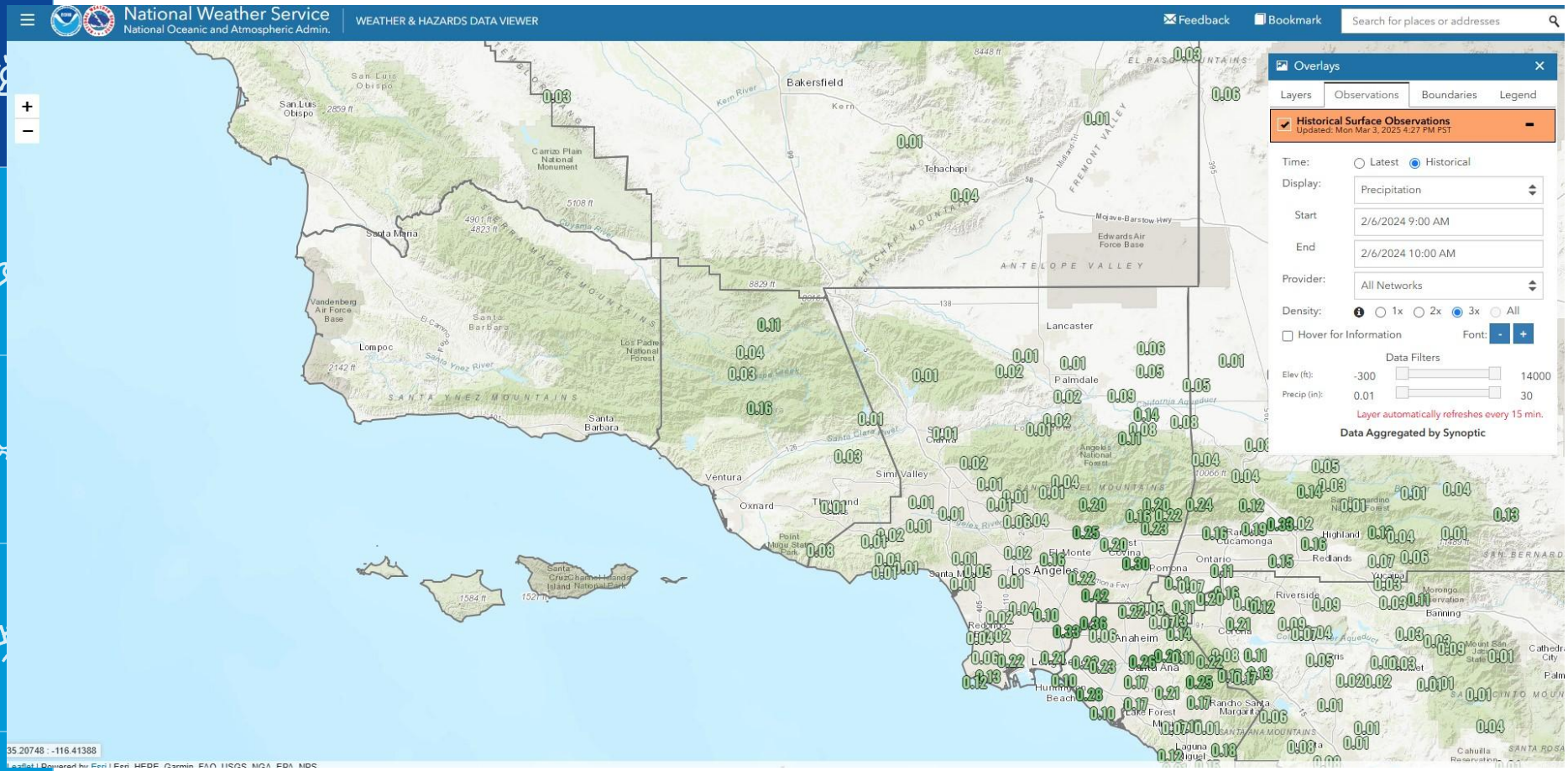
2/6/24 8AM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National Oceanic and Atmospheric Admin.
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Oxnard
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Los Angeles
Pomona
Riverside
Anaheim
Santa Ana
Irvine
Lake Forest
Rancho Santa Margarita
Mission Viejo
Laguna Niguel
Cucamonga
Ontario
Redlands
Banning
Tehachapi
Edwards Air Force Base
Vandenberg Air Force Base
Lompoc
San Luis Obispo
Carrizo Plain National Monument
Los Padres National Forest
Angeles National Forest
Point Mugu State Park
Santa Cruz Island
Channel Islands National Park
SIERRA MADRE MOUNTAINS
SANTA YNEZ MOUNTAINS
TEHACHAPI MOUNTAINS
ANTELOPE VALLEY
FREMONT VALLEY
SANTA ANA MOUNTAINS
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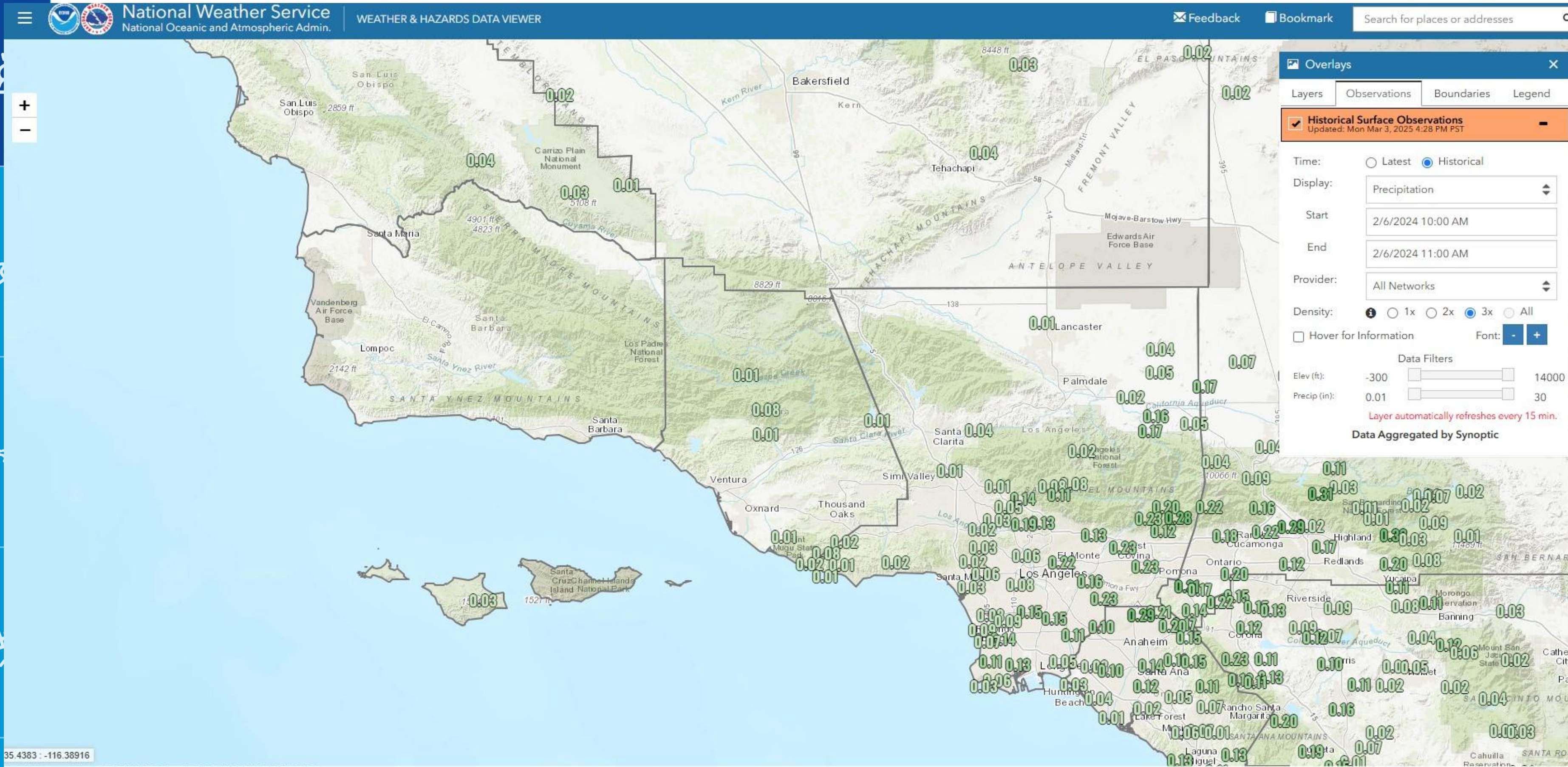
2/6/24 9AM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National Oceanic and Atmospheric Admin.
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Lancaster
Palmdale
Santa Clarita
Santa Barbara
Ventura
Oxnard
Thousand Oaks
Simi Valley
Los Angeles
Anaheim
Santa Ana
Riverside
Ontario
Pomona
Redlands
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San Luis Obispo
SANTA YNEZ MOUNTAINS
ANTELOPE VALLEY
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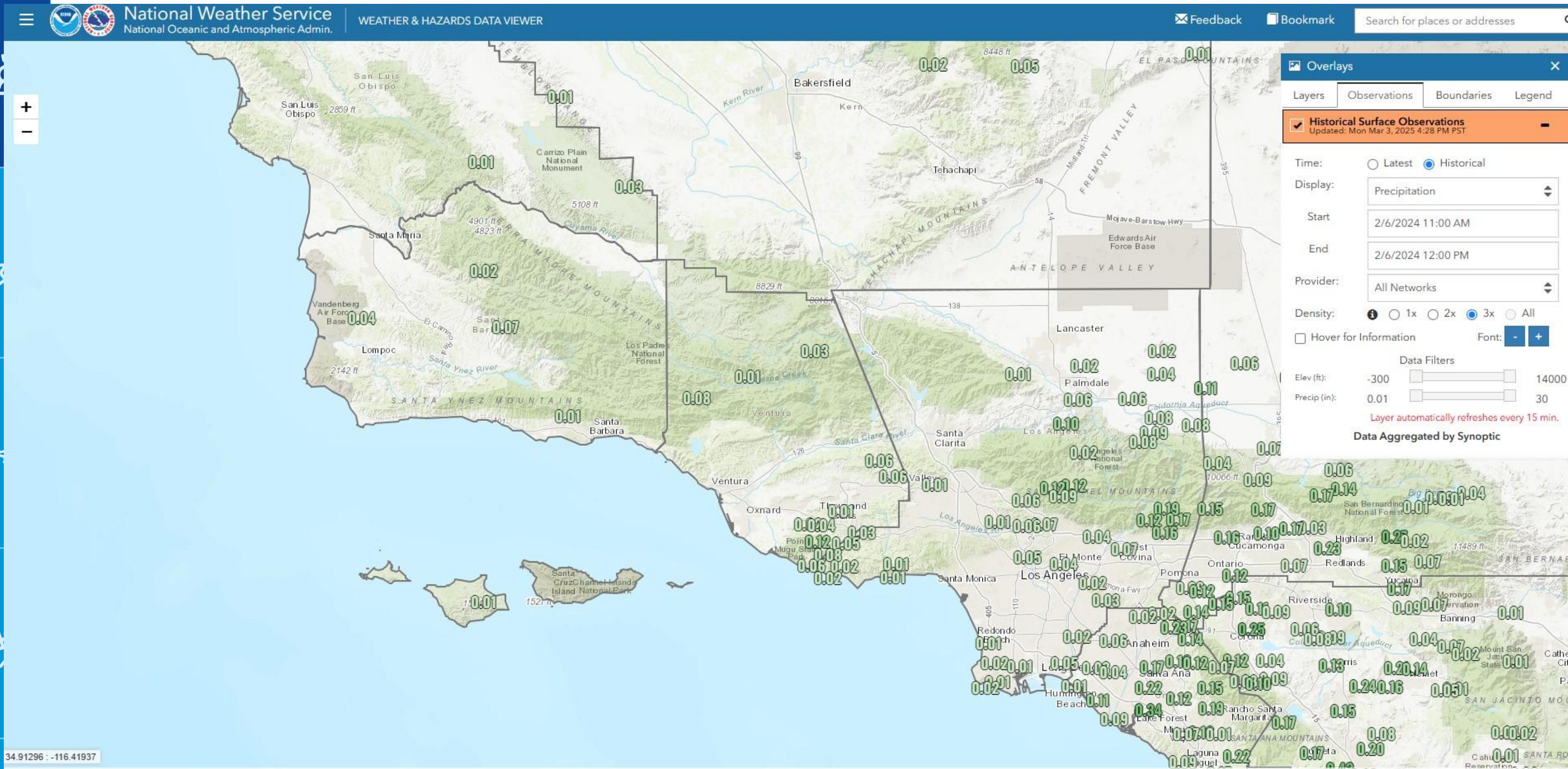
2/6/24 10AM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Latest
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2/6/2024 11:00 AM
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2x
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Precip (in):
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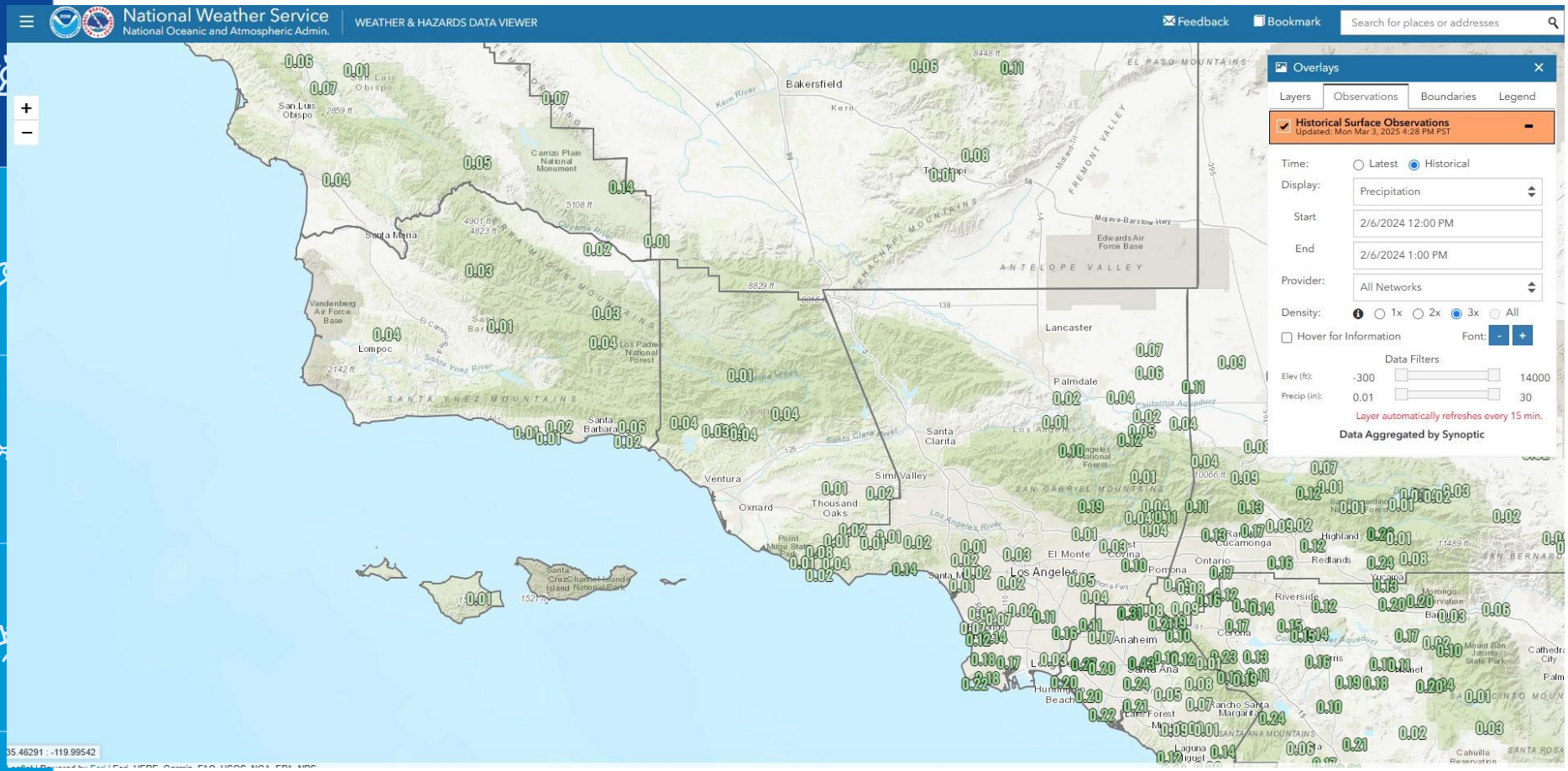
ANTELOPE VALLEY
SANTA YNEZ MOUNTAINS
34.91296 : -116.41937

2/6/24 11AM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Lake Forest
Rancho Santa Margarita
Laguna Niguel
Mount San Jacinto State Park
Cahuilla Reservation
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SAN GABRIEL MOUNTAINS
SANTA ANA MOUNTAINS
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FREMONT VALLEY
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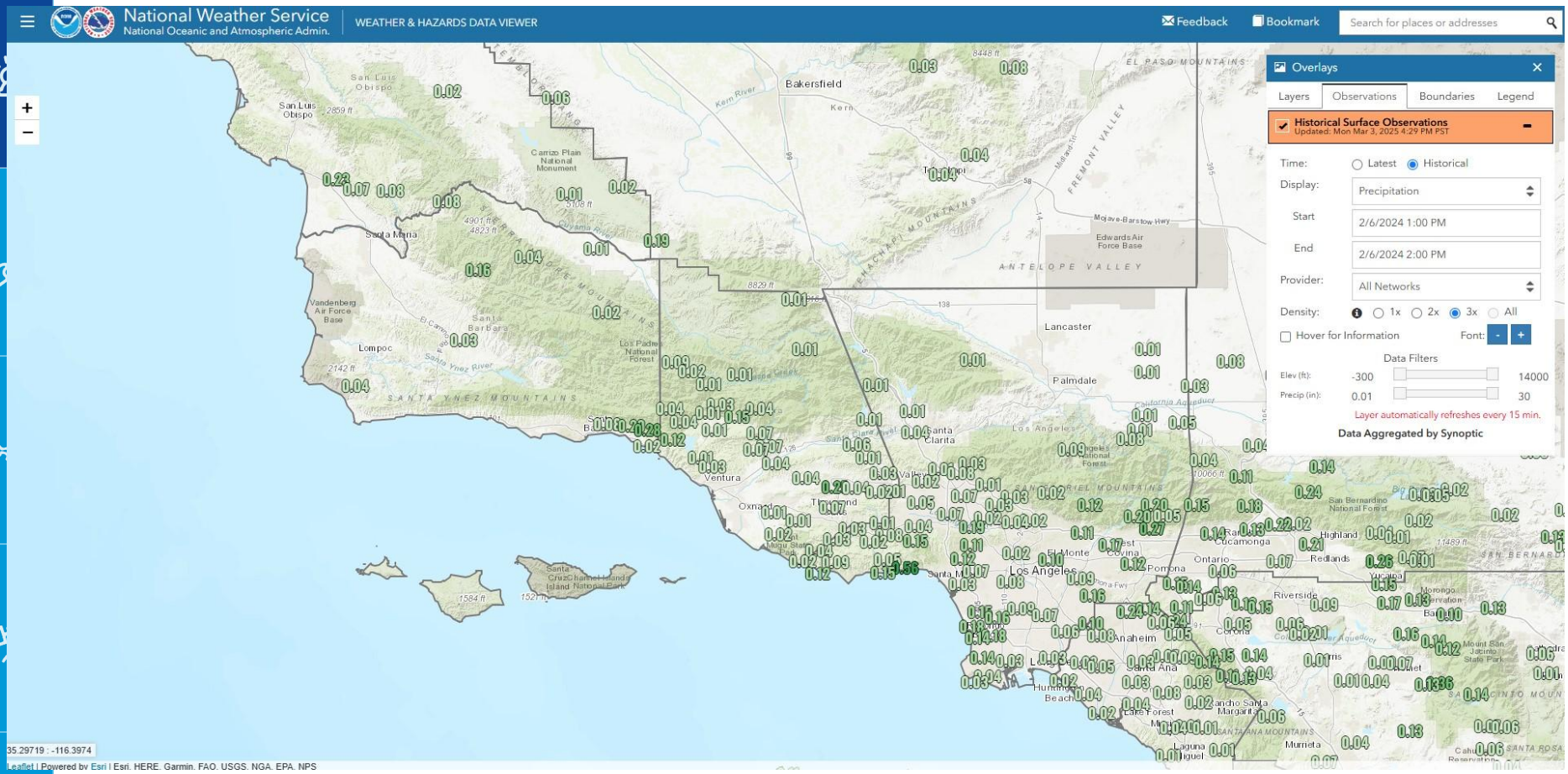
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Vandenberg Air Force Base
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Channel Islands National Park
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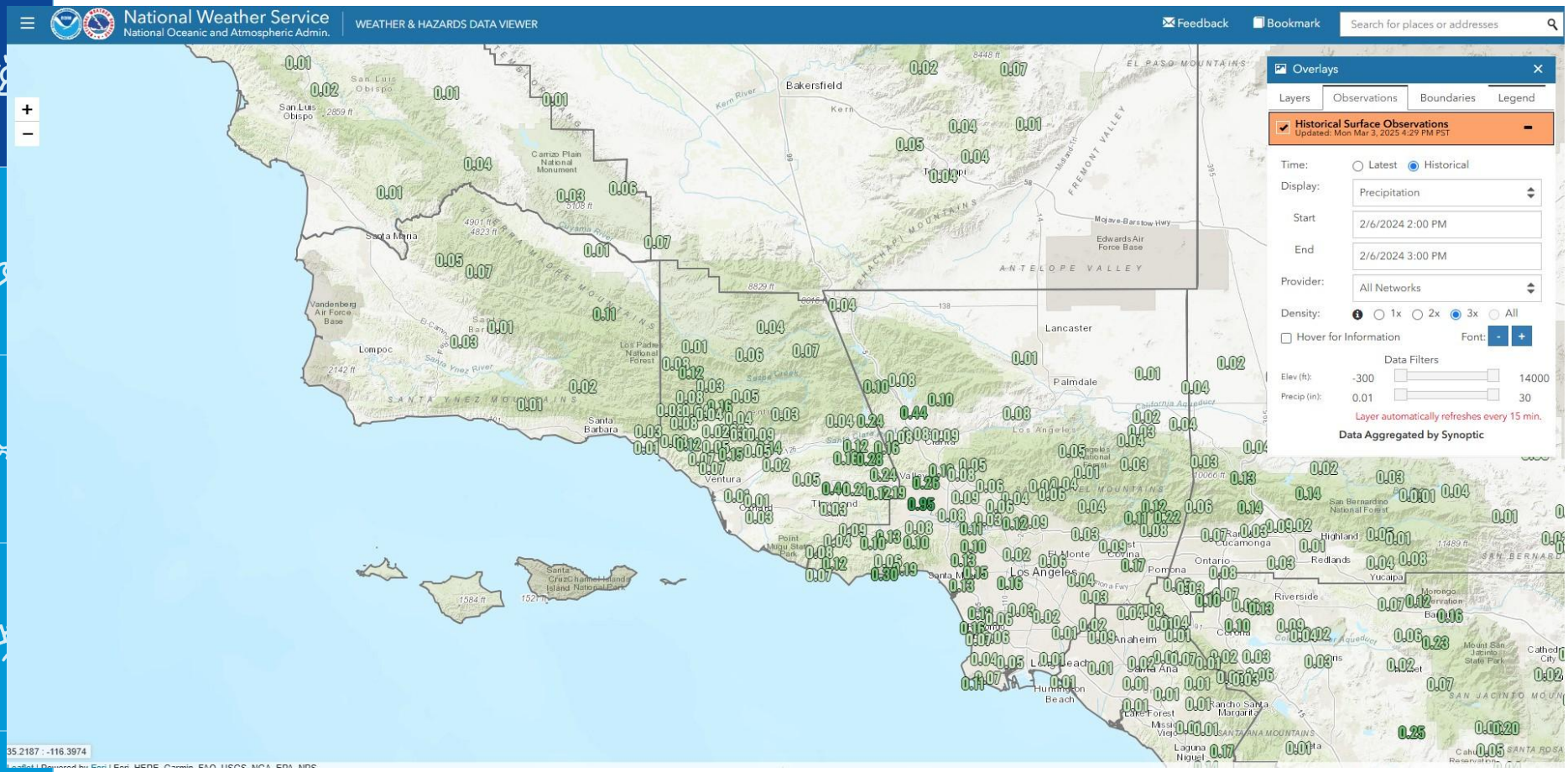
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Redlands
Yucaipa
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Vandenberg Air Force Base
Channel Islands National Park
Point Mugu State Park
Carrizo Plain National Monument
Mojave-Barstow Hwy
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ANTELOPE VALLEY
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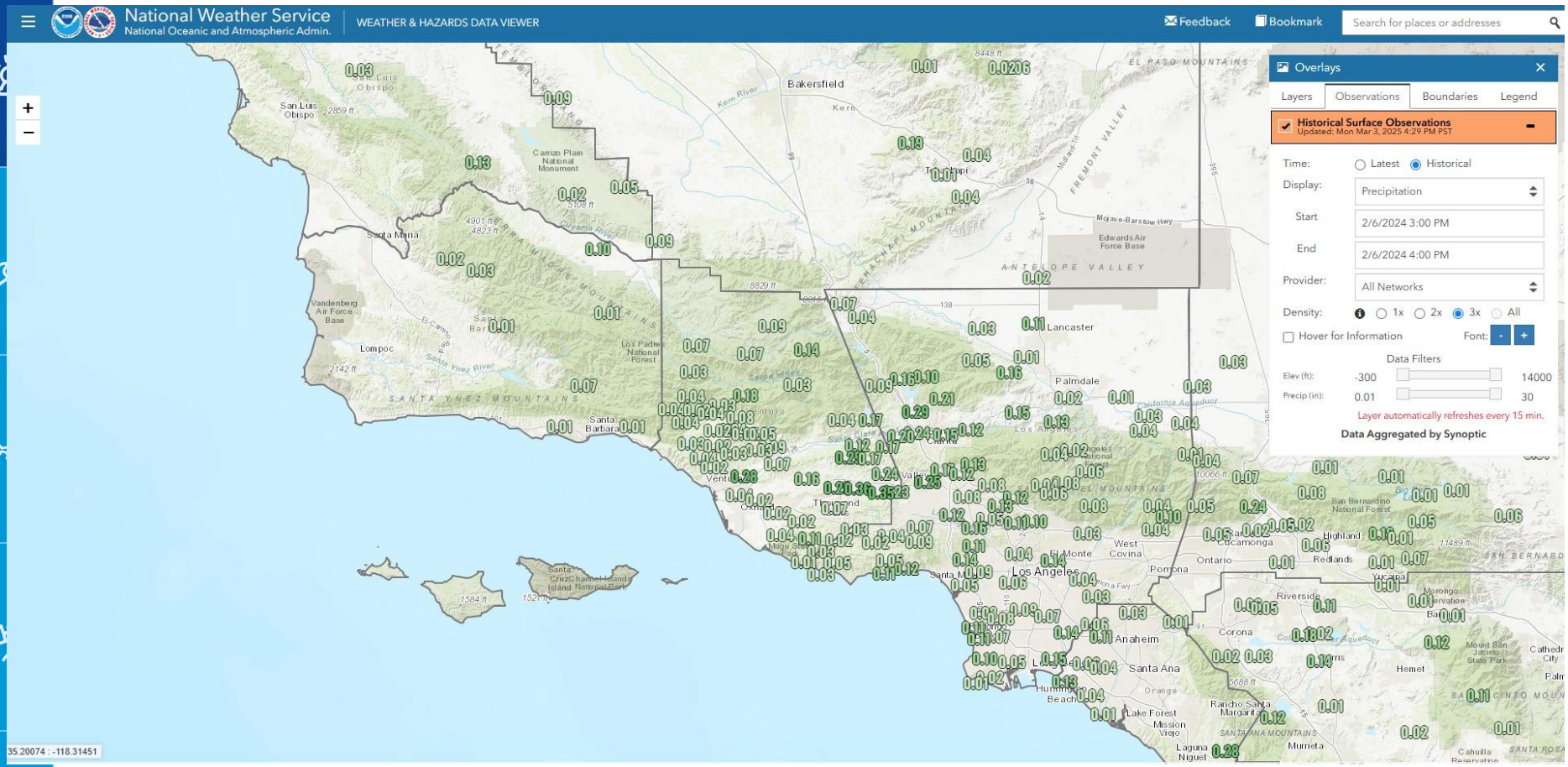
2/6/24 2PM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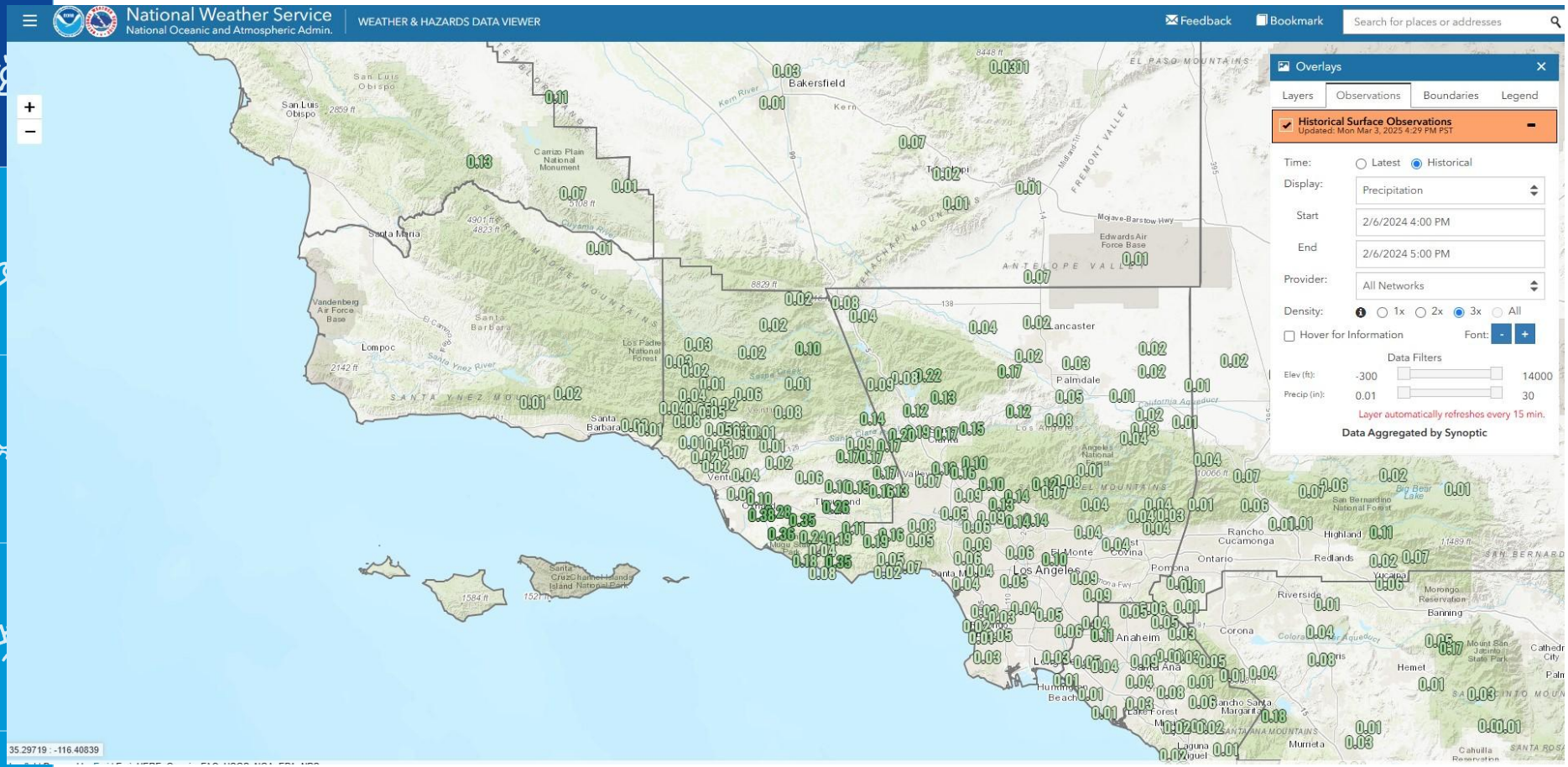
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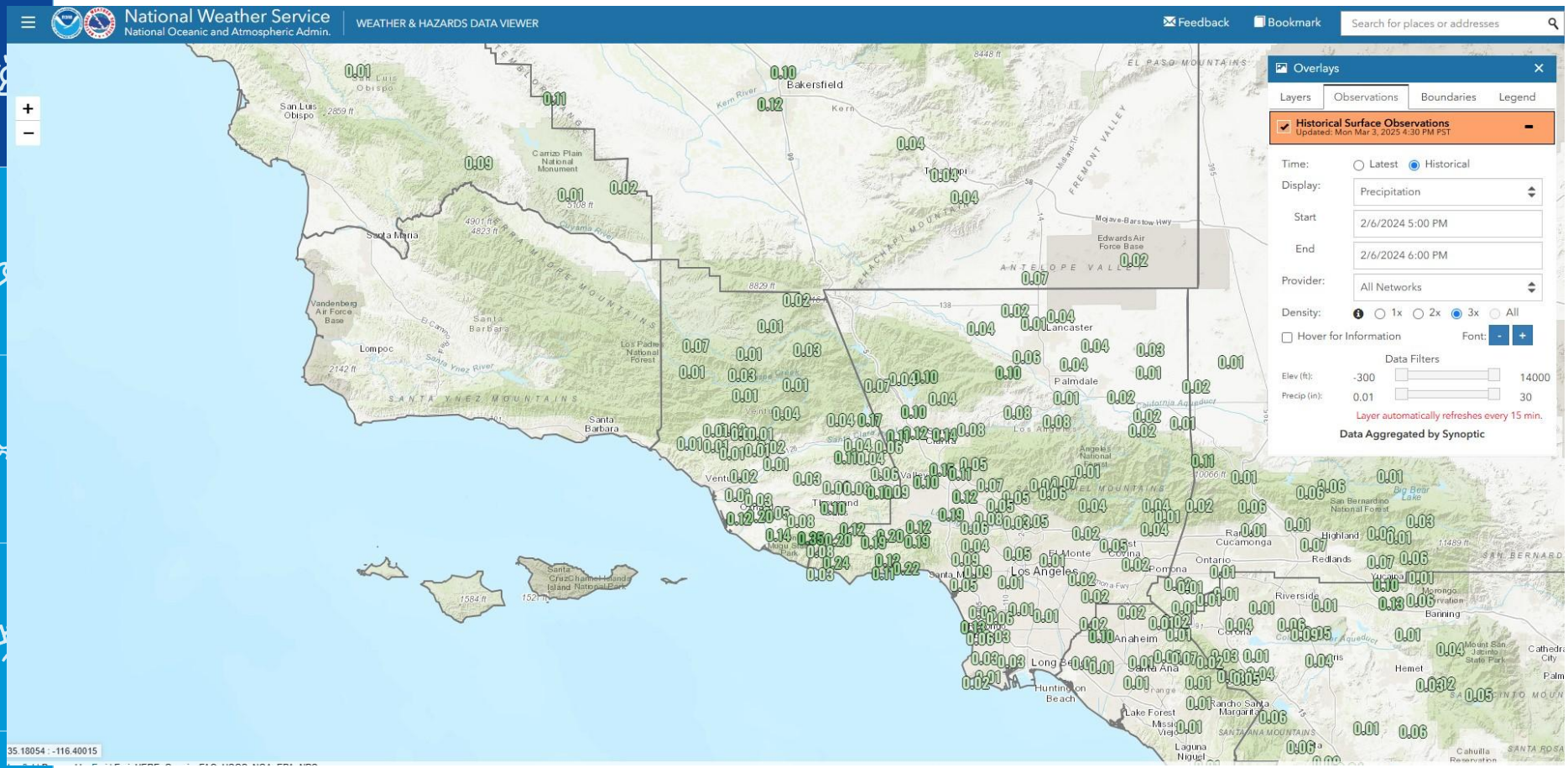
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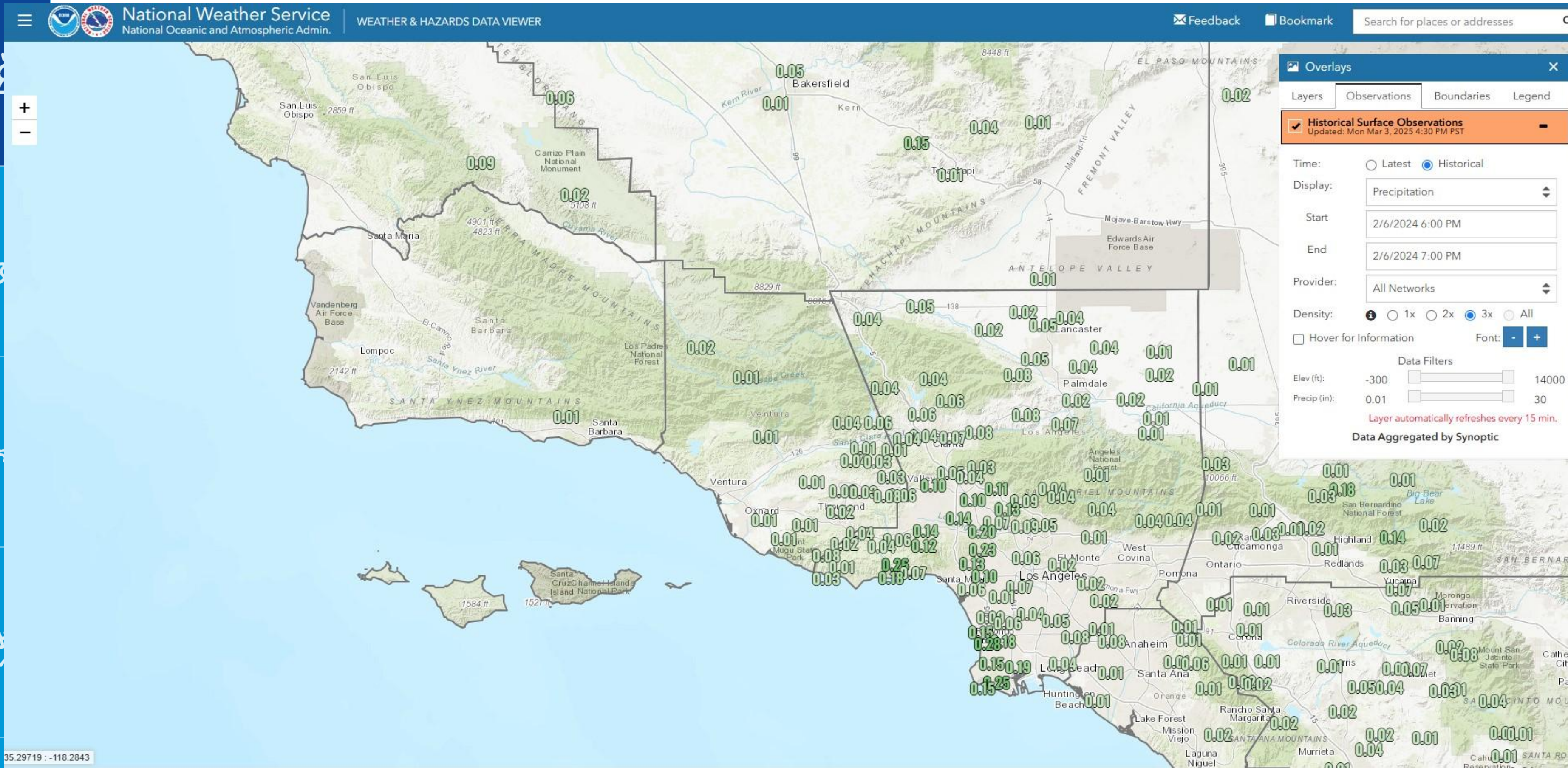

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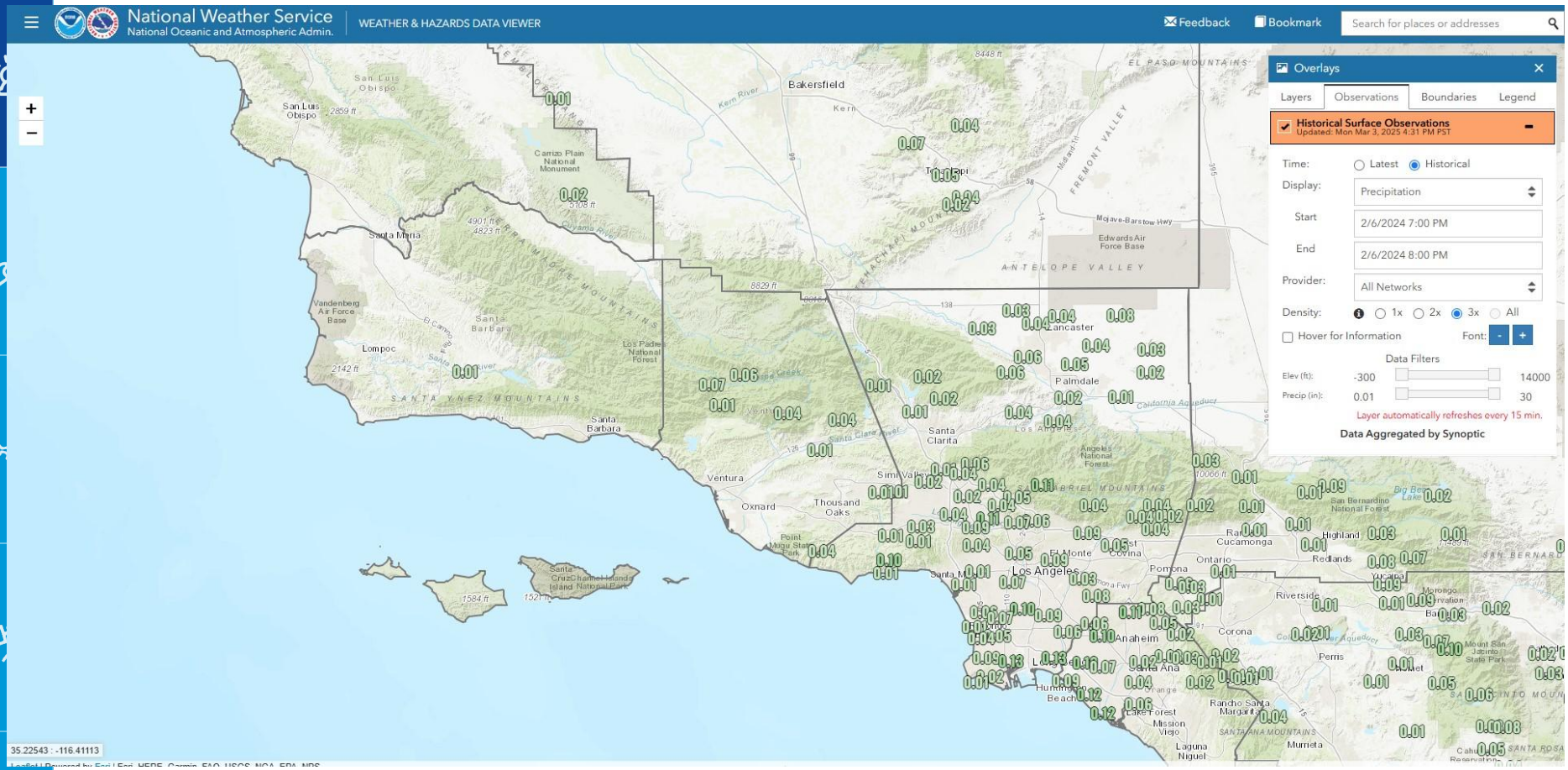
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Vandenberg Air Force Base
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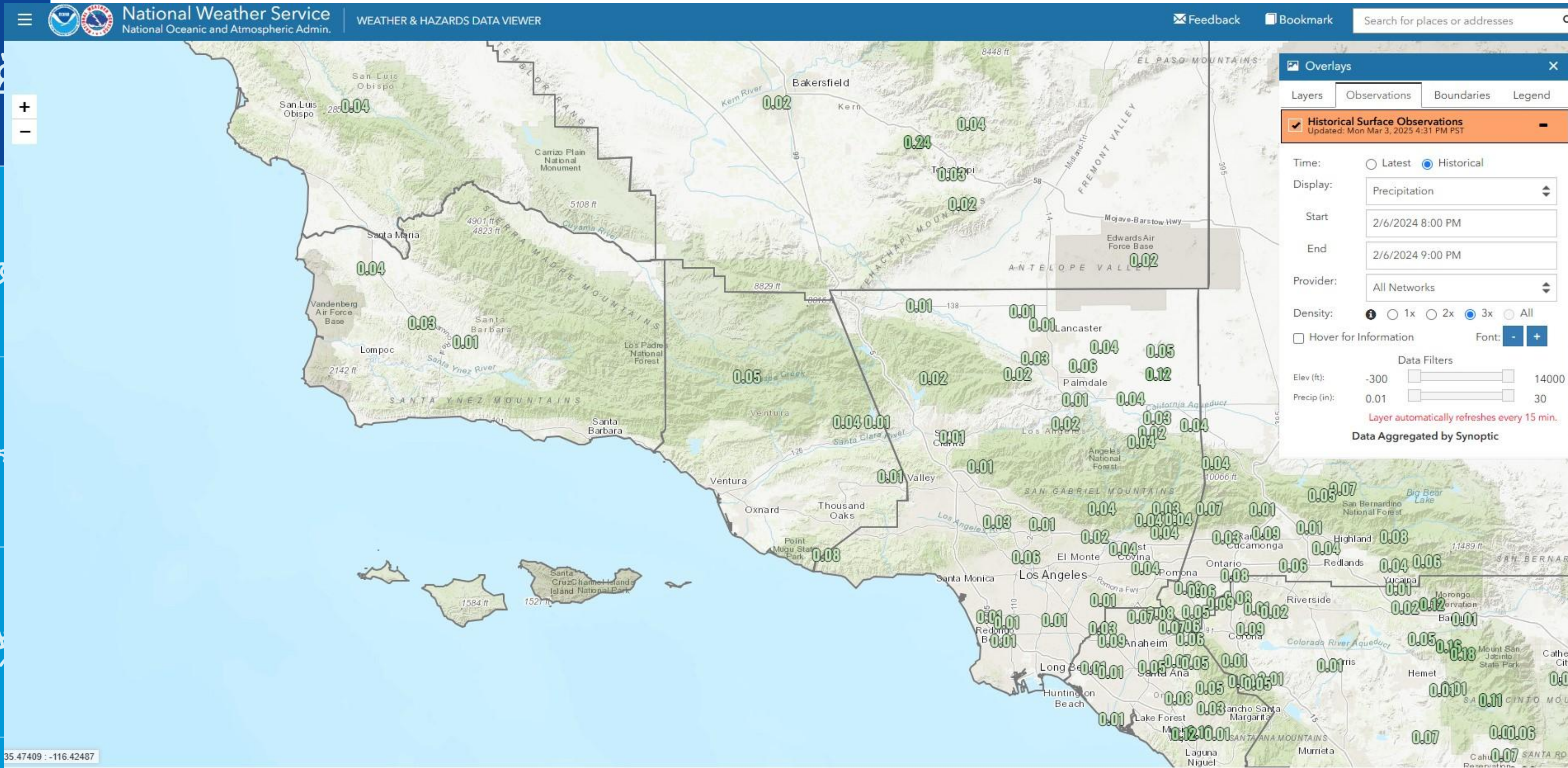
2/6/24 7PM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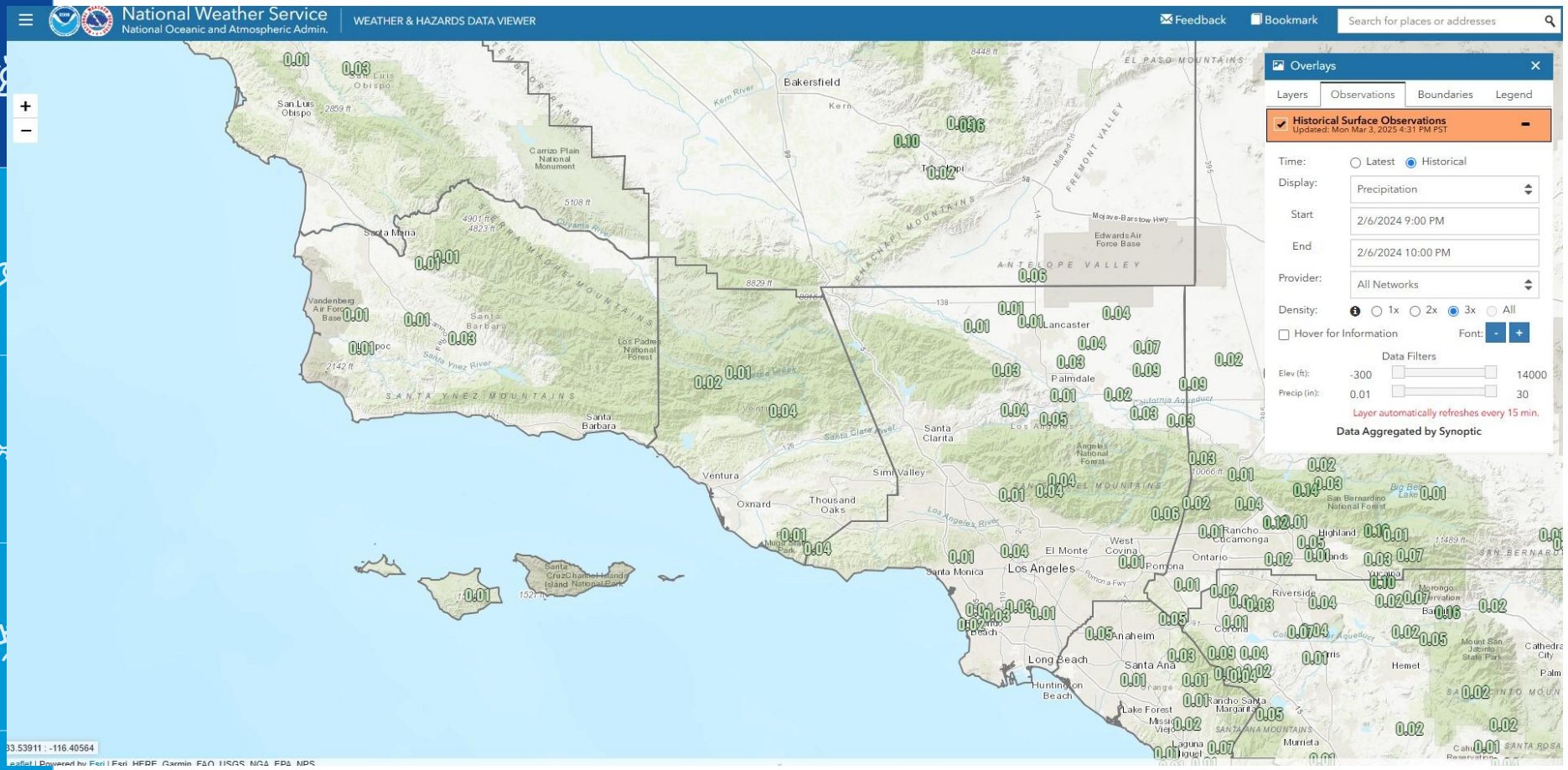
2/6/24 8PM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Lake Forest
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Temecula
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Vandenberg Air Force Base
San Luis Obispo
Carrizo Plain National Monument
Los Padres National Forest
Angeles National Forest
San Bernardino National Forest
Santa Cruz Channel Islands Island National Park
SANTA YNEZ MOUNTAINS
SAN GABRIEL MOUNTAINS
SANTA ANA MOUNTAINS
ANTELOPE VALLEY
FREMONT VALLEY
EL PASO MOUNTAINS
Kern River
Santa Ynez River
Los Angeles River
Santa Clara River
Mojave-Barstow Hwy
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Highland
Yucaipa
Redlands
Corona
Norco
Mount San Jacinto State Park
Cathedral City
Palm
Rancho Santa Margarita
Laguna Niguel
Mission Viejo
Big Bear Lake
Morongo Reservation
SAN BERNARDINO MOUNTAINS
SANTA ROSA
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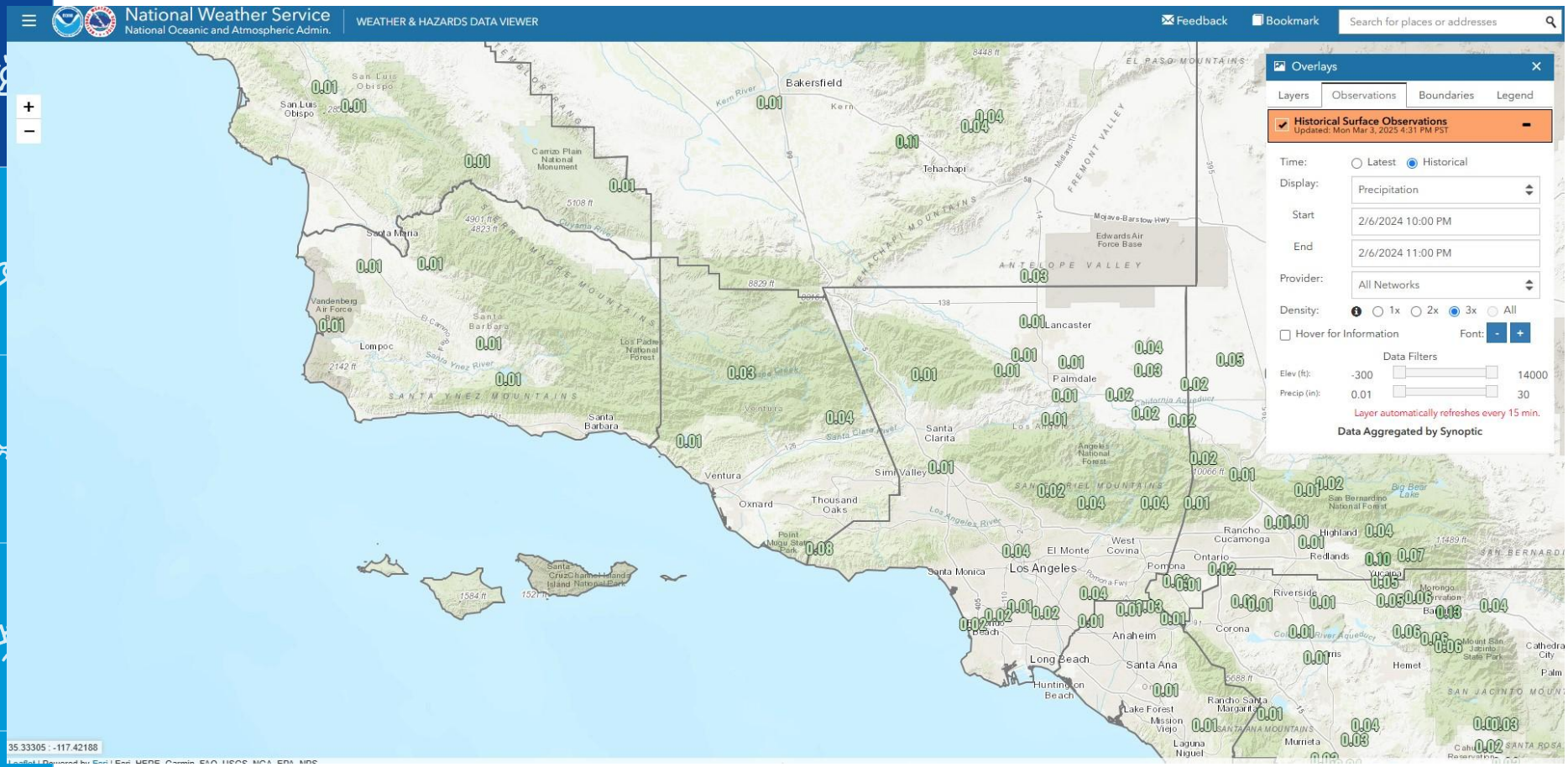
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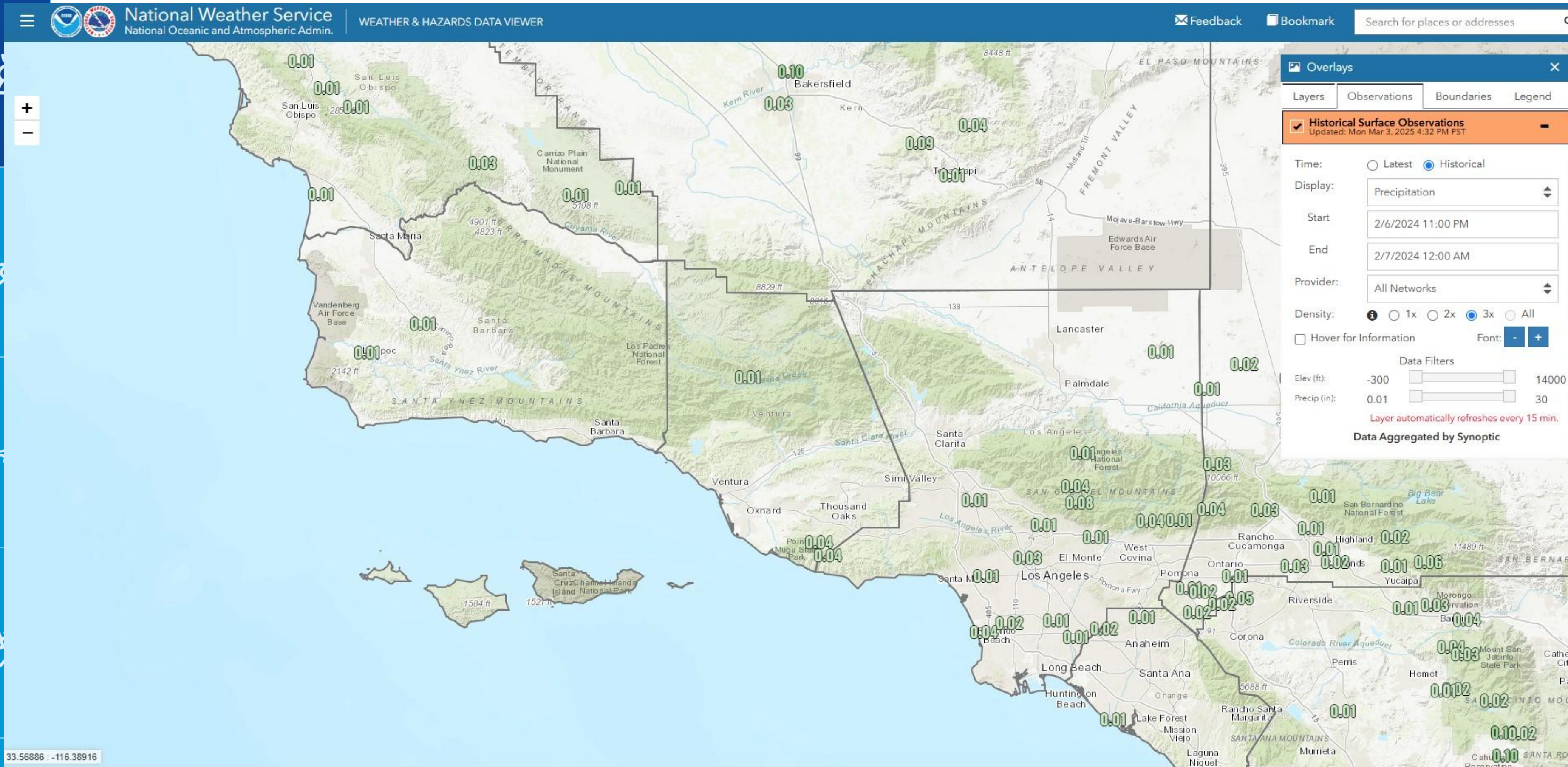
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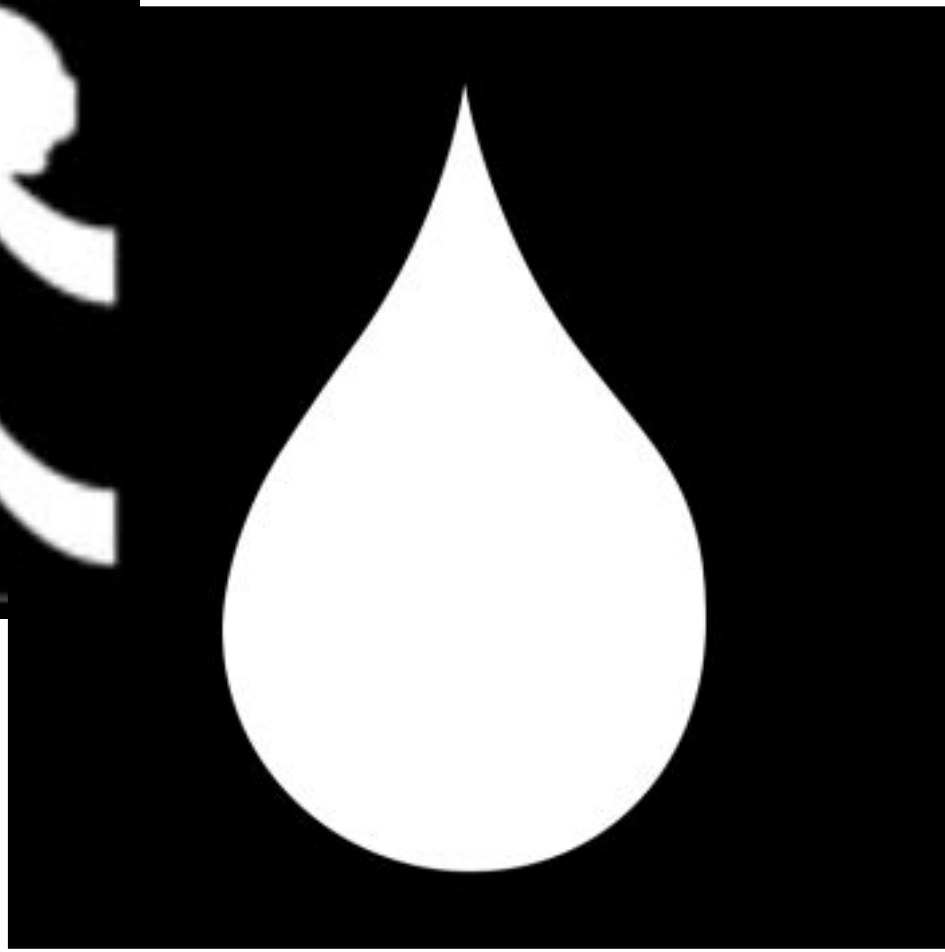

READY

Regular Communication

- BEFORE weather events, NWS & Core Partners strengthen connections
  - Seasonal preparedness activities, joint exercises, learning about each other's needs
- Why?
  - Core Partners (e.g., EMs) directly support disaster response…
  - Weather plays a huge role in disasters!
    - Core Partners can make better-informed decisions when advised by NWS expert Meteorologists…
    - So, better disaster response comes from stronger NWS-Partner relationships

First ever Southern California Tropical Workshop (May 2024) attended by three dozen partners with significant NWS attendance including from the National Hurricane Center.

SET

Preparing for the Event

- Leveraging NWS-Core Partner relationships
  - Coordinating ahead of the storm
    - NWS provides briefings, forecast info, watches, warnings, advisories
    - Weather forecast influences Core Partner staffing and operations tempo
      - Core Partner upstaffing can increase preparedness
- NWS positions resources to meet partner needs, including deployments to EOCs

City of Los Angeles EMD designated space in the Planning Section of the EOC
NWS deployed Meteorologists to provide IDSS, eye-to-eye with Core Partners for major events

GO!

The Event: Eye to Eye in LA

- EOC activates when NWS forecasts high-impact weather
  - NWS deploys Meteorologists to EOC, getting Eye-To-Eye with Partners
- NWS ensures City of LA EMD is prepared for disaster response
  - Saving lives and property!
  - NWS expertise at Press and Mayoral briefings adds credibility and urgency to facilitate effective public response

GO!

The Event: Eye to Eye in LA

- NWS LA/Oxnard brought in NWS personnel from NWS Portland, OR and NWS Seattle, WA who redeployed to the Santa Barbara County and LA County EOCs, respectively.
- Five members of the NWS LA/Oxnard team also deployed to the EOCs
- 7 NWS team members were eye-to-eye with partners at four EOCs nearly continuously during activations starting February 4.

Ventura County Star

"This time, however, let us pause to also give praise to those who alerted us to the coming danger and enabled us to prepare. In the days leading up to the prolonged storm, the meteorologists at the National Weather Service office in Oxnard spared no caution in their forecasts. A 'life-threatening' event was on its way, they warned, and they were spot on."

vcstar.com

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Editorial: Unsung weather heroes in Oxnard

The Star Editorial Board Ventura County Star

Published 12:00 p.m. PT Feb. 9, 2024 | **Updated 12:00 p.m. PT Feb. 9, 2024**

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Once again, Ventura County has been hit by an extreme weather event, and once again we have cause to celebrate the heroes who helped us get through it — the rescue teams, those who patrolled our rain- and mud-slicked streets, the crews who cleared flood channels and storm drains to limit flooding, the workers who did their best to prevent and limit power outages, all those who braved difficult conditions to keep us safe.

It's Not Always Sunny in SoCal

NOAA
National Weather Service

Dr. Ariel Cohen
Meteorologist In Charge
NWS Los Angeles/Oxnard

Dr. Robbie Munroe
Meteorologist
NWS Los Angeles/Oxnard