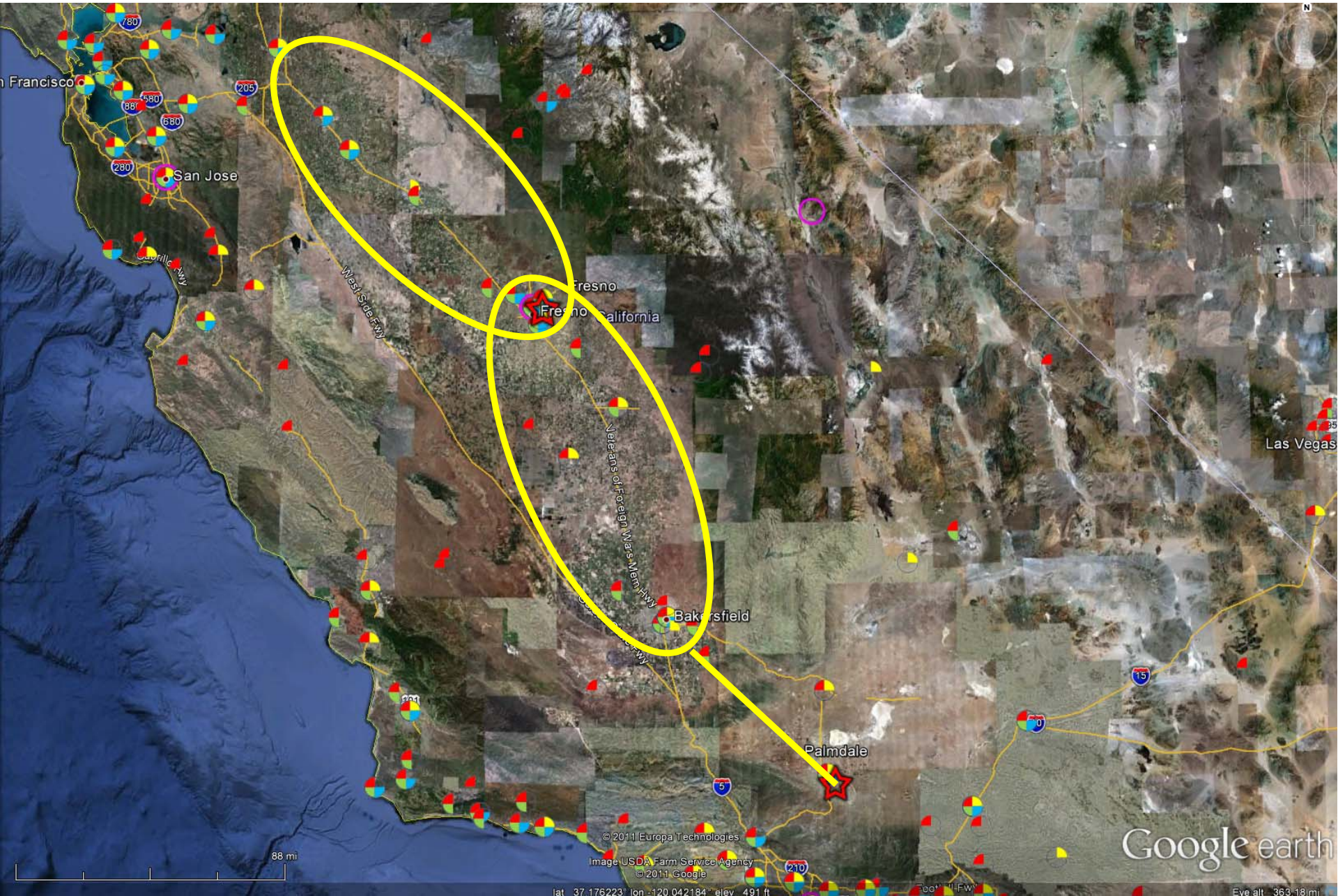
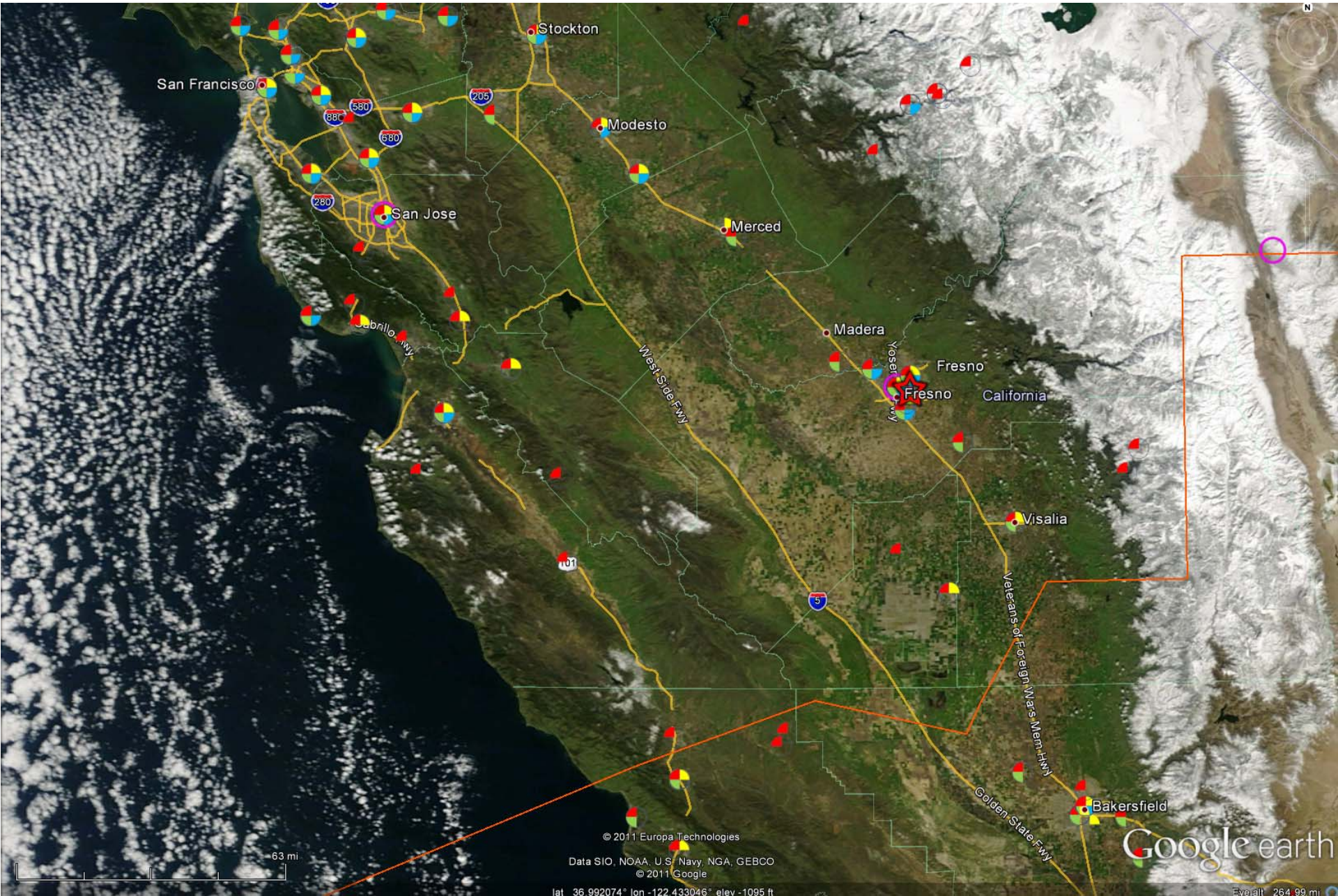
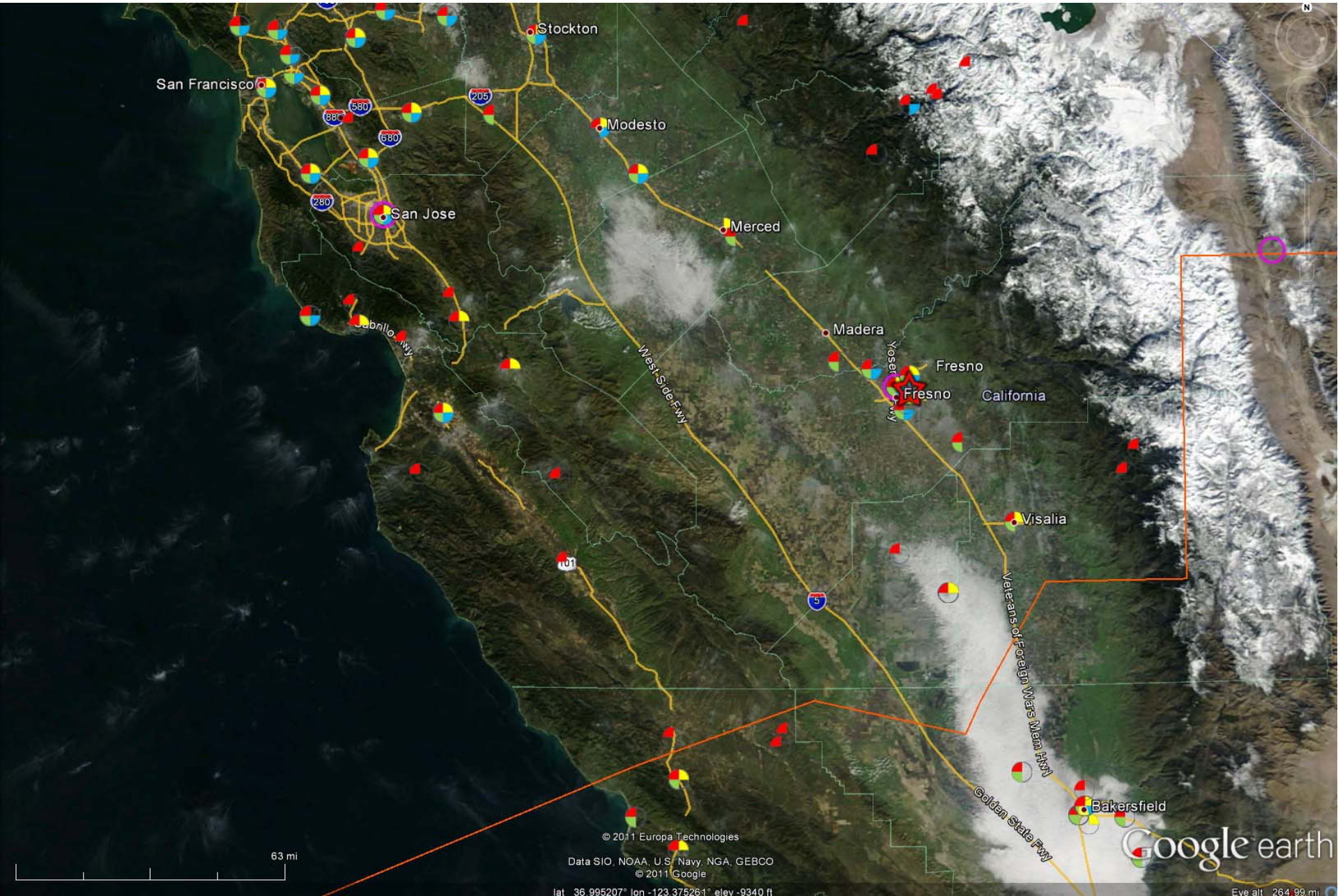
Possible flight bases include Fresno and Palmdale



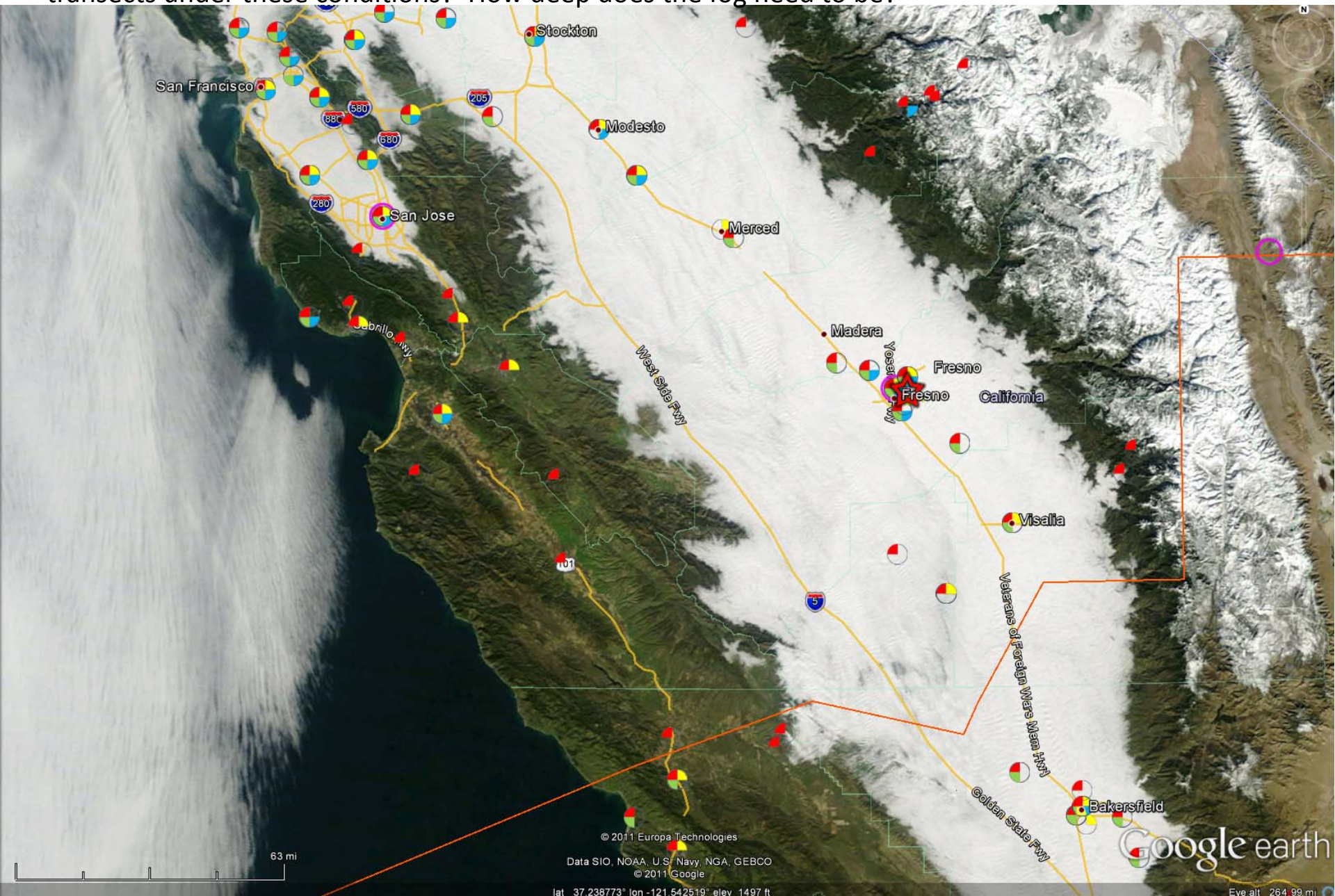
Example clear day: no issues, although flights between Fresno and Stockton to the north would keep operations within the Oakland FIR.



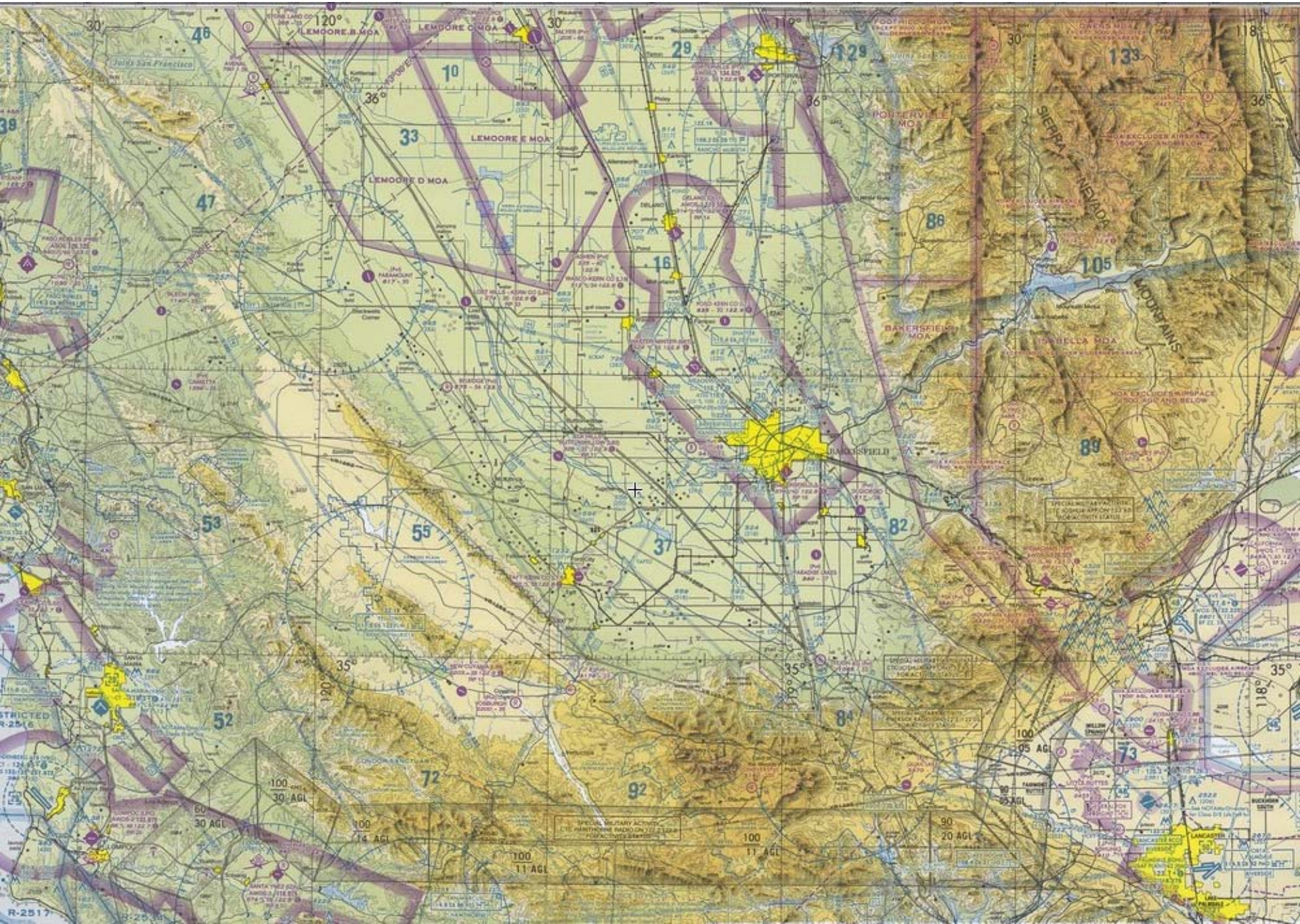
Example day with partial clouds: demonstrates the value of having the ability to choose between a Fresno-Bakersfield versus a Fresno-Stockton circuit on any given day.



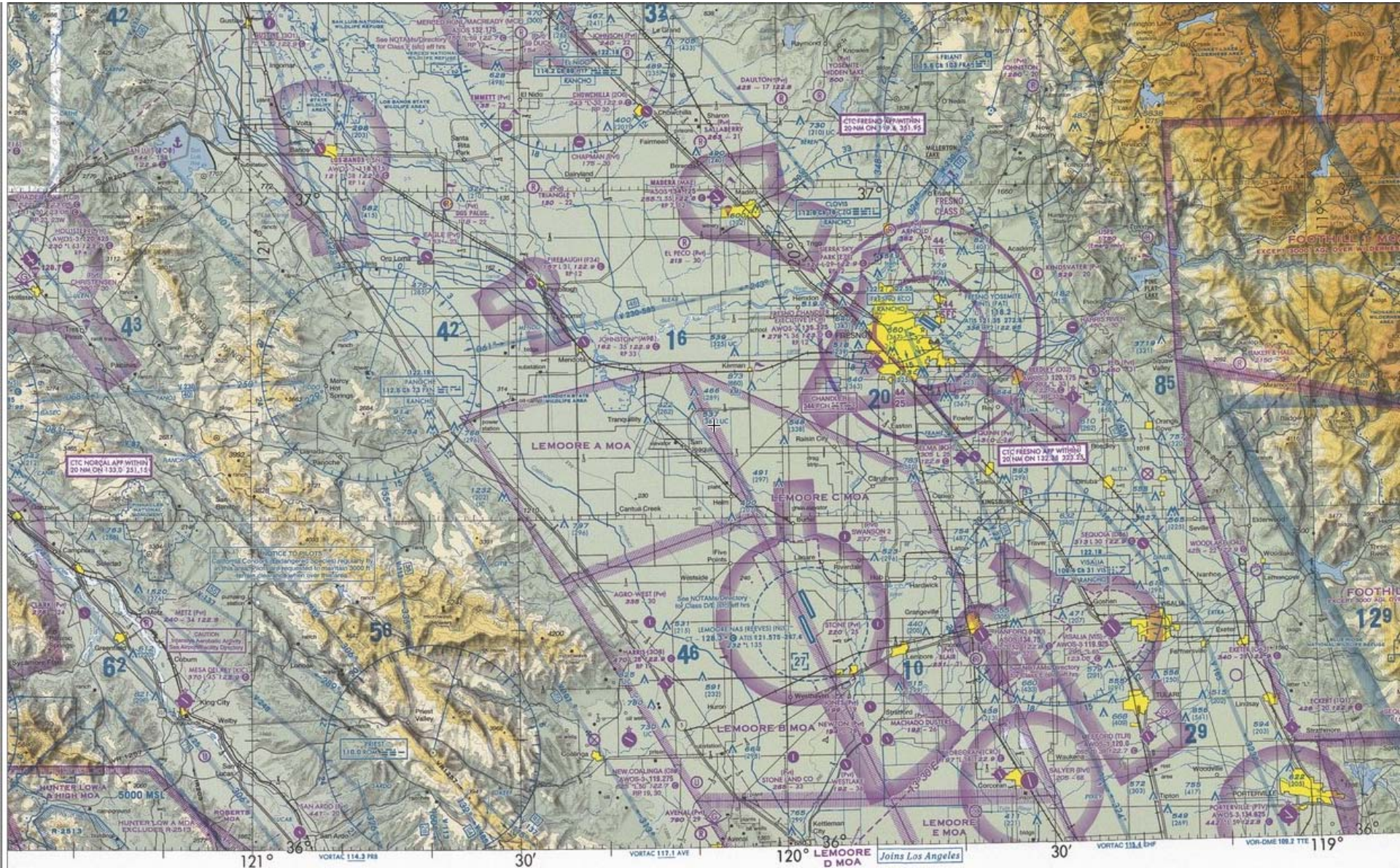
Example day with pervasive fog: This condition can persist for many days, although there would be value in doing sampling above and within the fog. What would be necessary to enable horizontal IFR transects under these conditions? How deep does the fog need to be?



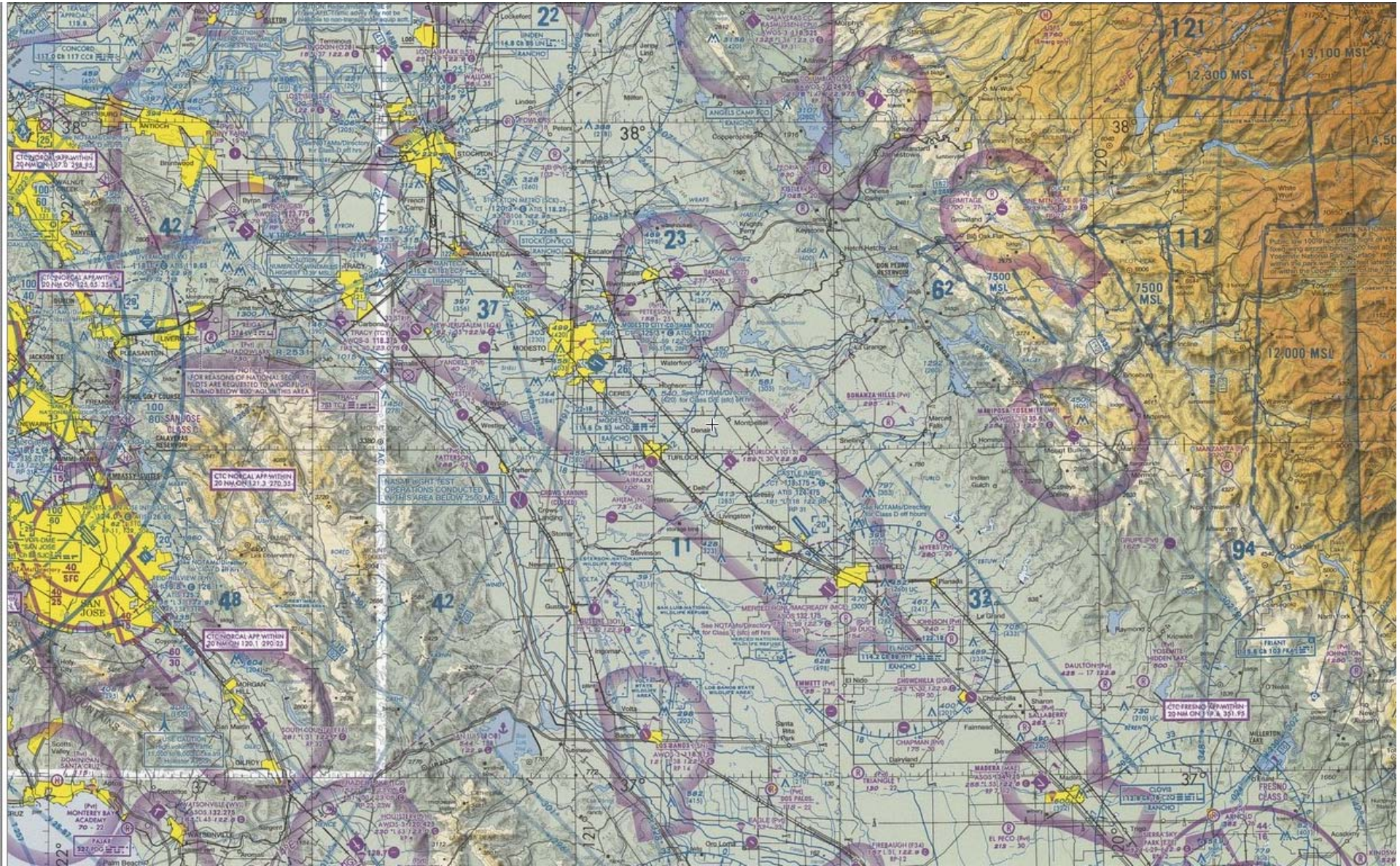
Southern domain: Do the MOAs over the west side of the valley offer any impediments or opportunities?

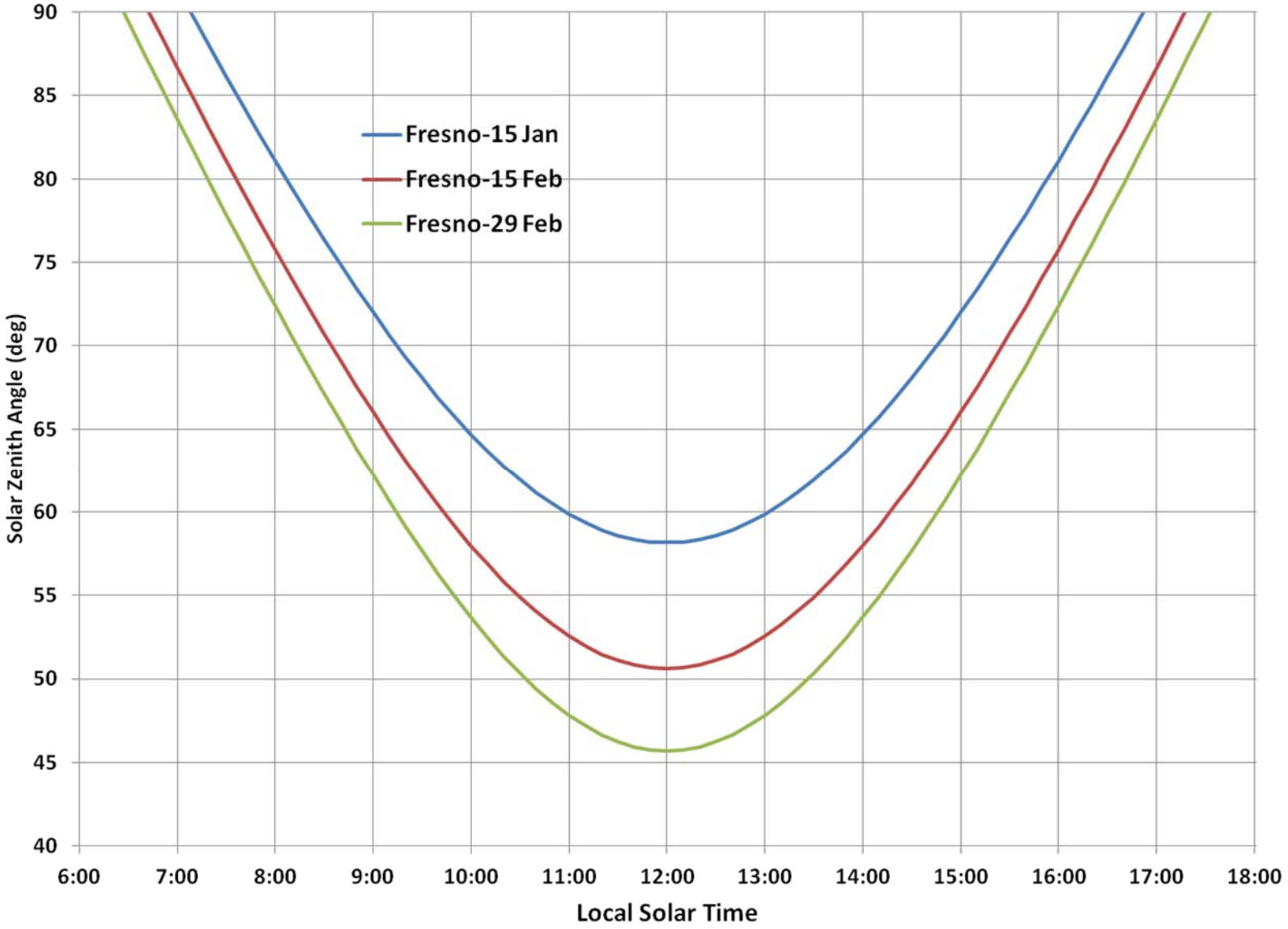


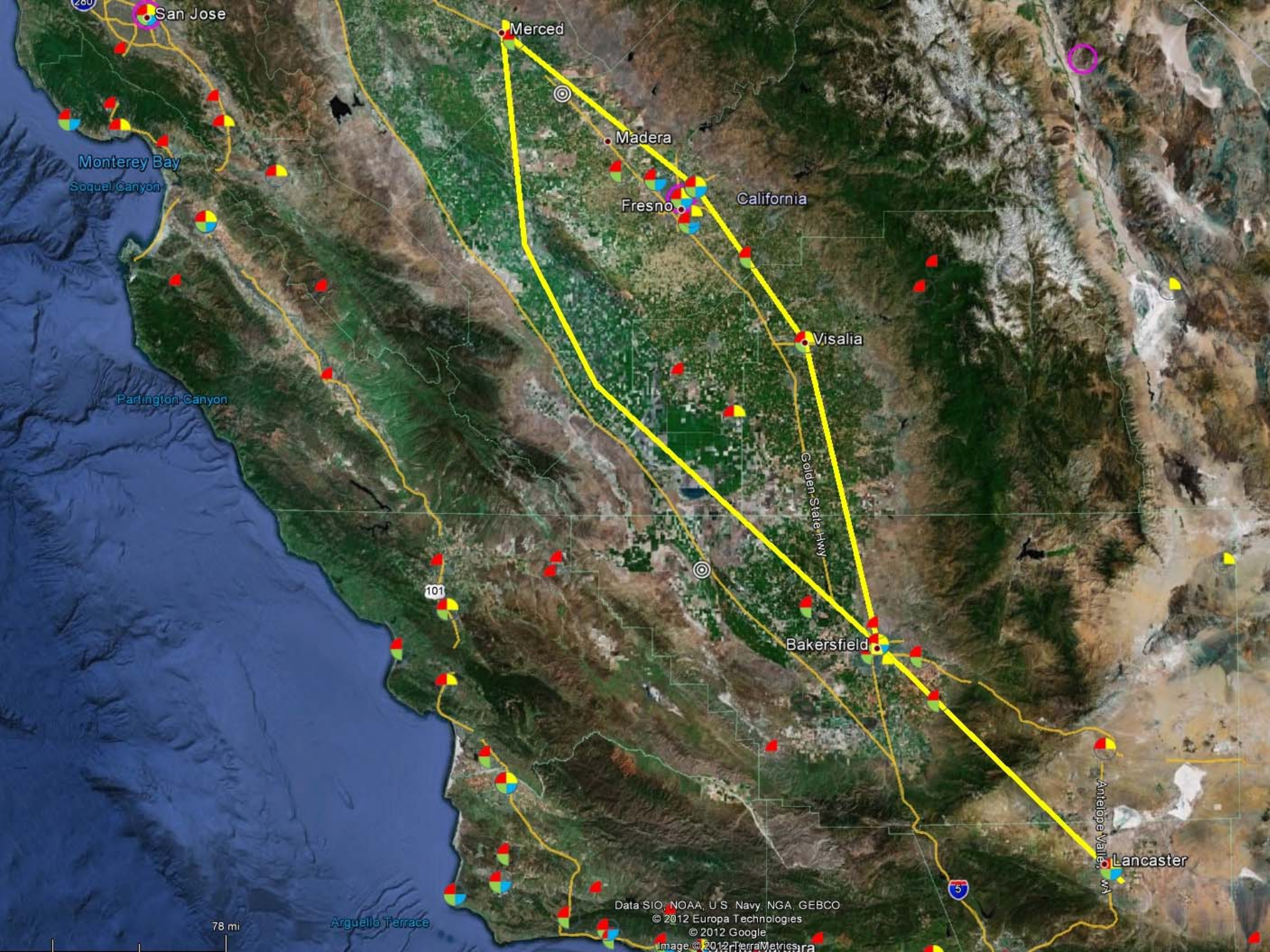
Central domain: MOAs on the west side of the valley continue as far north as Fresno…

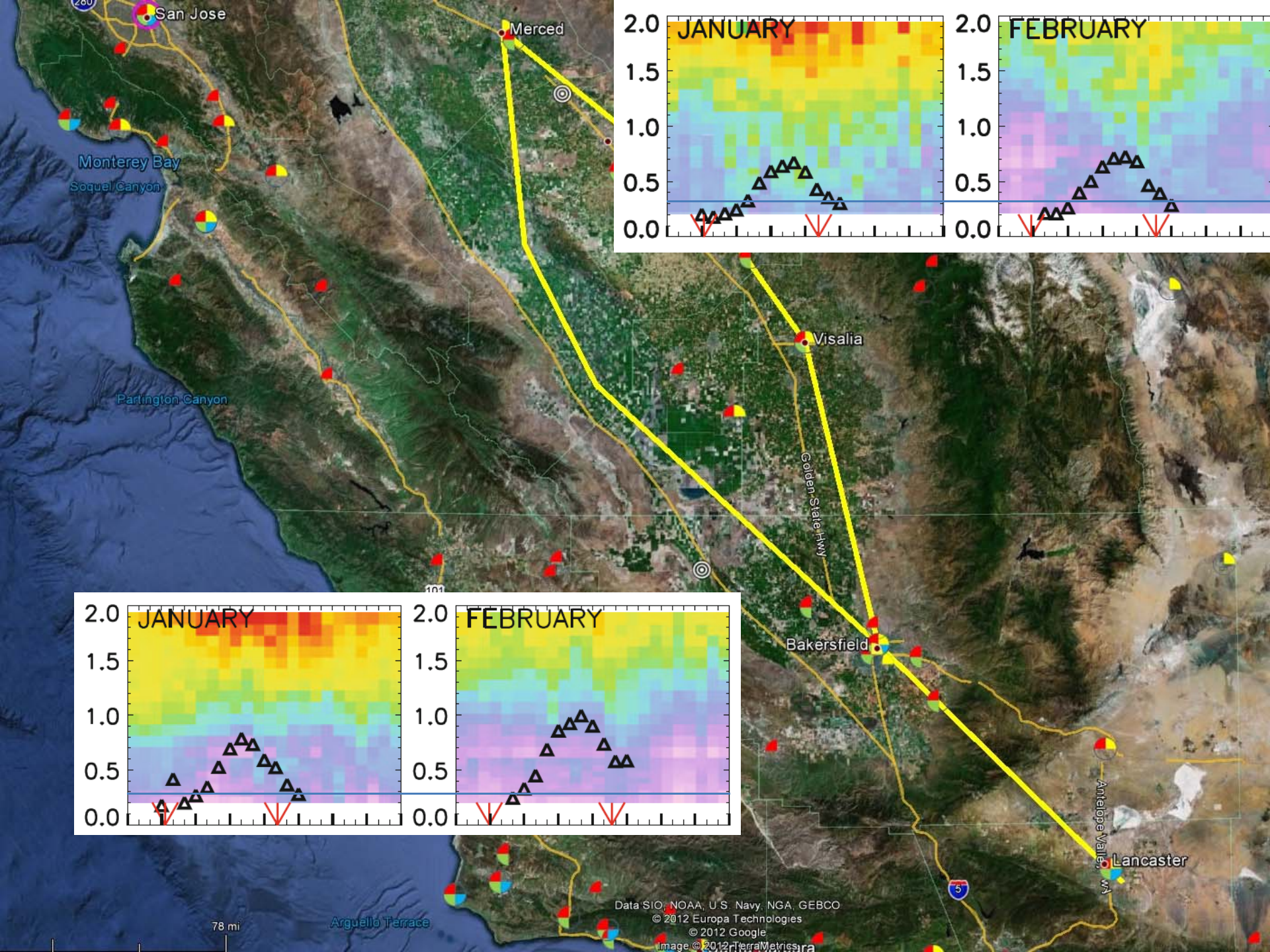


Northern domain: Is this likely to be busier airspace?



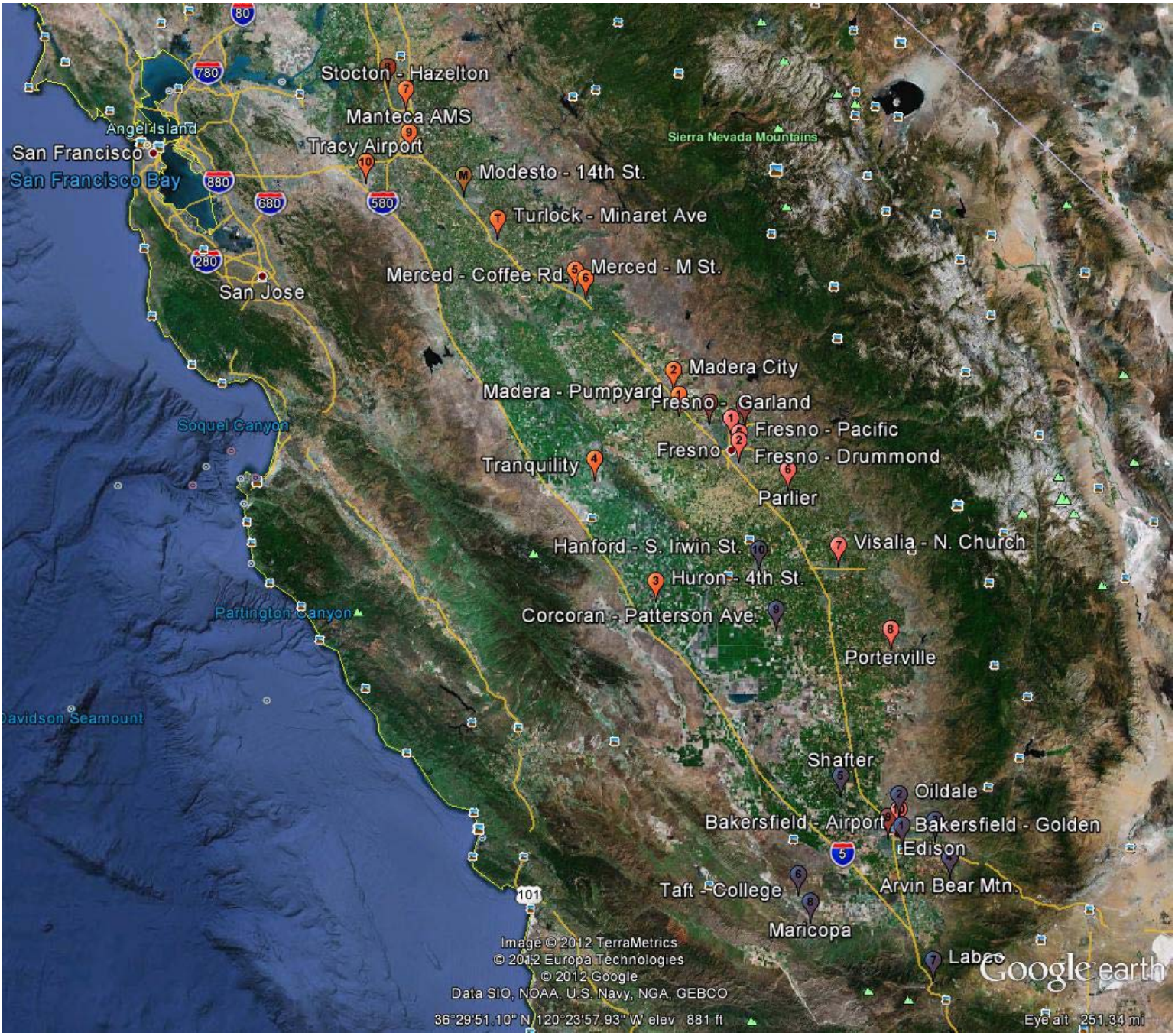

Fresno-15 Jan
Fresno-15 Feb
Fresno-29 Feb
Solar Zenith Angle (deg)
90
85
80
75
70
65
60
55
50
45
40
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
Local Solar Time

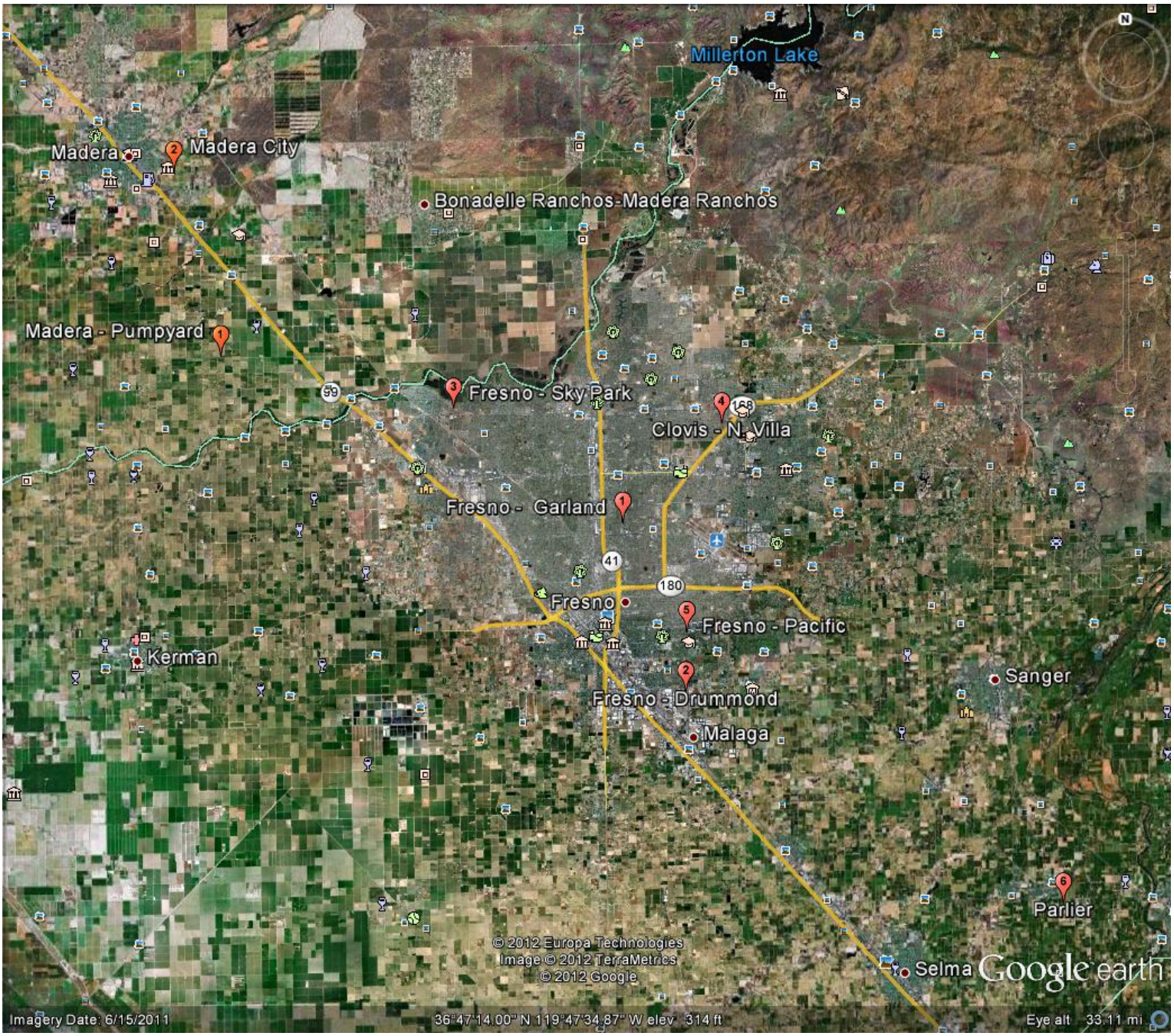

San Jose
Merced
Madera
Monterey Bay
Soquel Canyon
Fresno
California
Visalia
Partington Canyon
Golden State Hwy
101
Bakersfield
Antelope Valley
Lancaster
5
Arguello Terrace
78 mi
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2012 Europa Technologies
© 2012 Google
Image © 2012 TerraMetrics

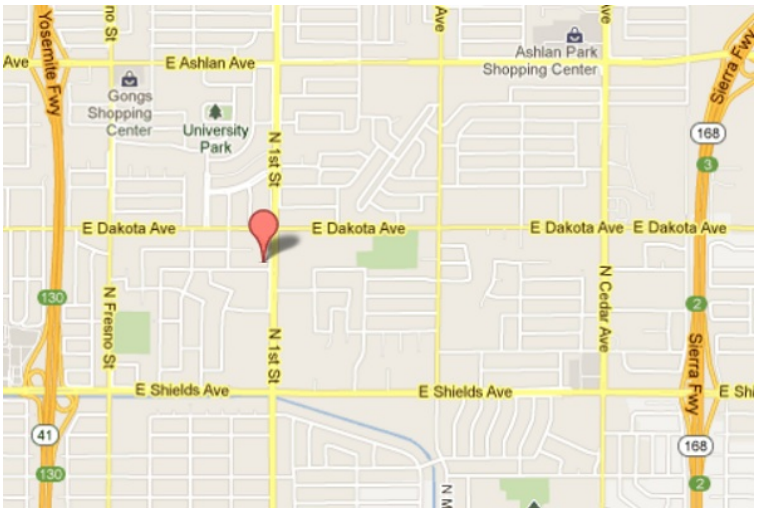

JANUARY
FEBRUARY
2.0
1.5
1.0
0.5
0.0
San Jose
Merced
Monterey Bay
Soquel Canyon
Partington Canyon
Visalia
Golden State Hwy
Bakersfield
Antelope Valley
Lancaster
Arguello Terrace
78 mi
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2012 Europa Technologies
© 2012 Google
Image © 2012 TerraMetrics

San Jouquin Valley

Air Monitoring Sites

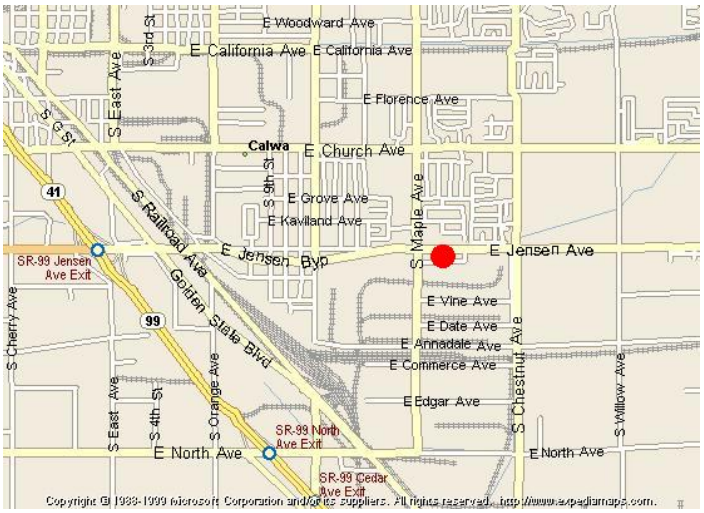






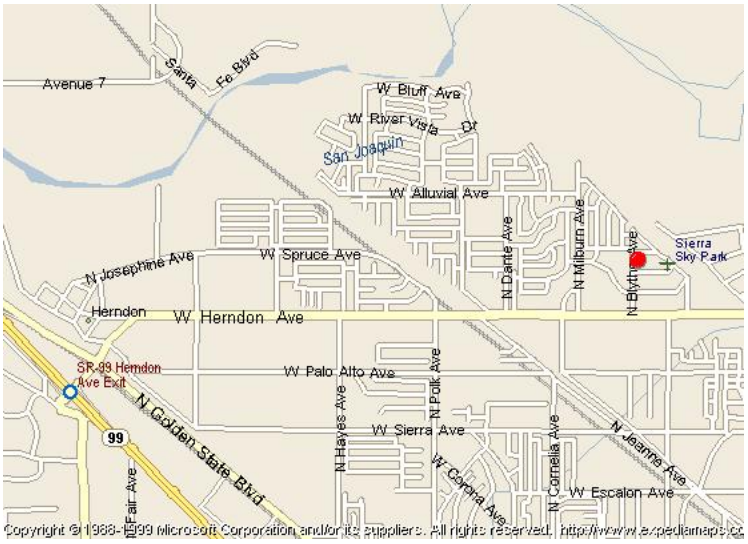
Fresno – Garland

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10251



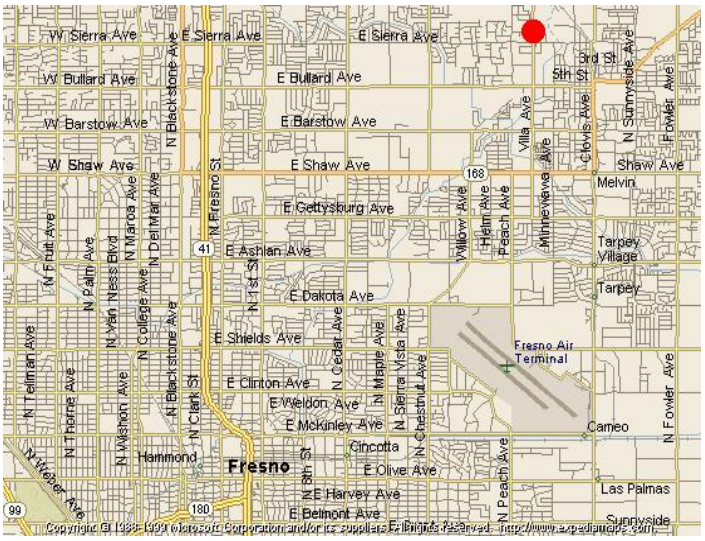
Fresno – Drummond Street

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10244



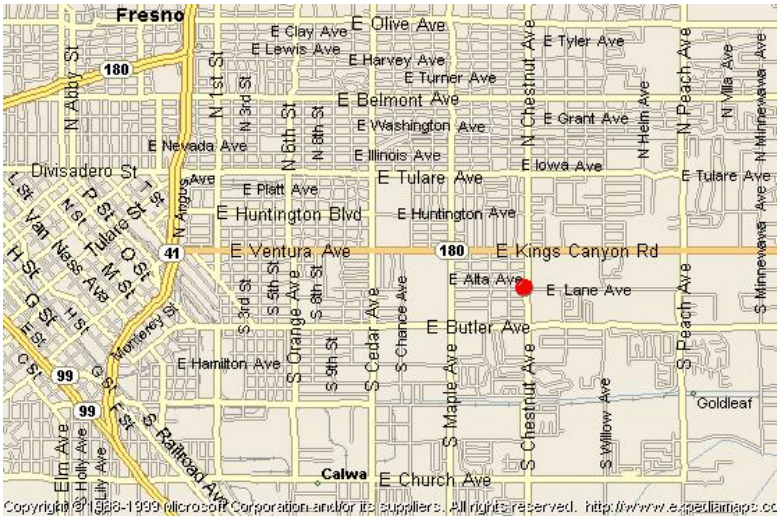
Fresno – Sky Park

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10245



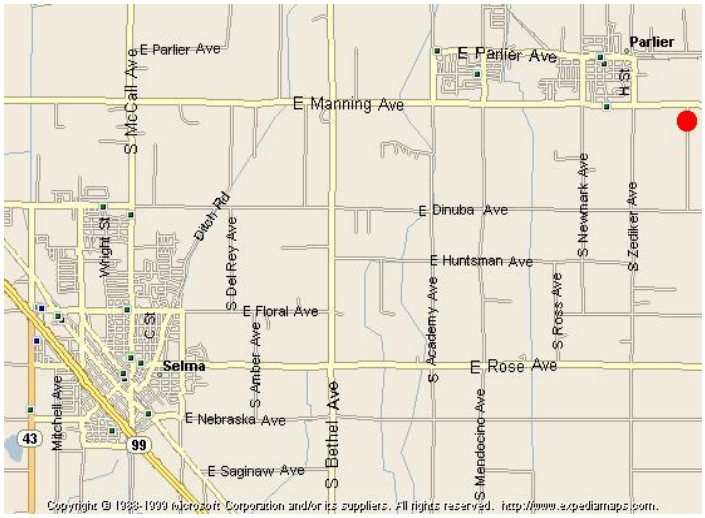
Clovis – North Villa Avenue

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10248



Fresno – Pacific

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10025



Parlier

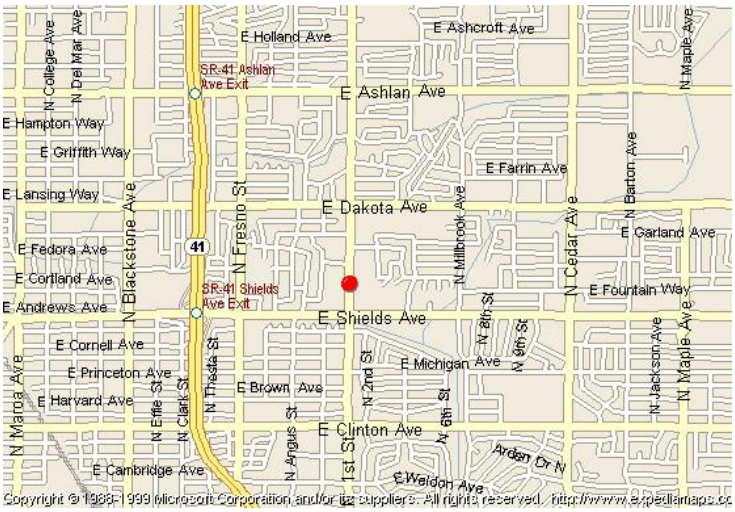
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10230

Madera City

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10241

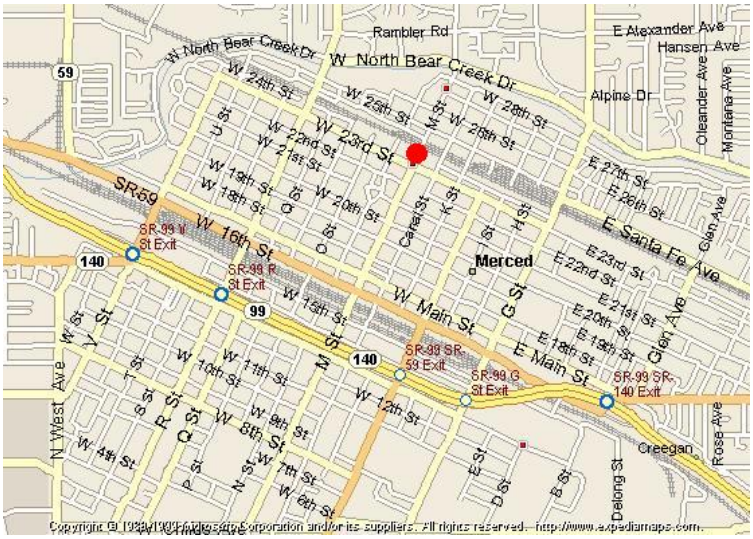
Madera – Pump Yard

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=20211



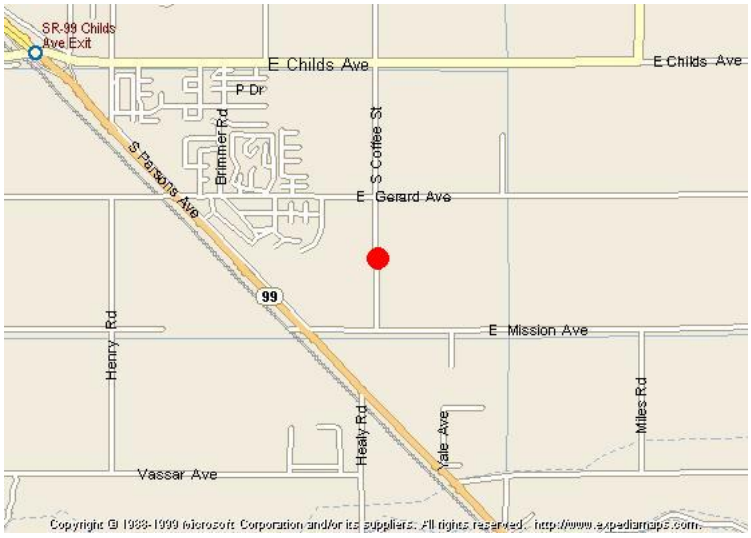
Fresno – First (Closed Down)

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10246



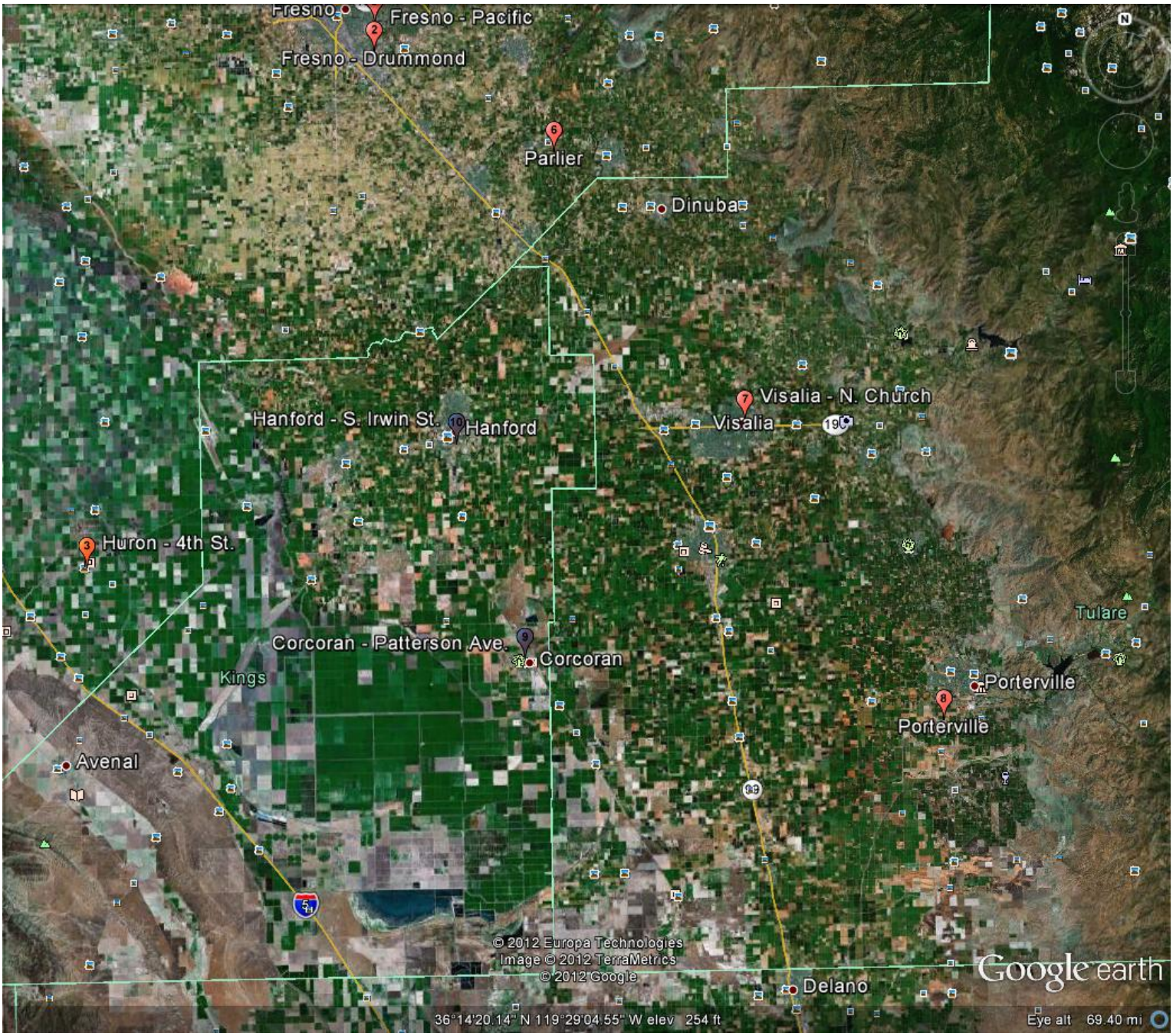
Merced - M Street

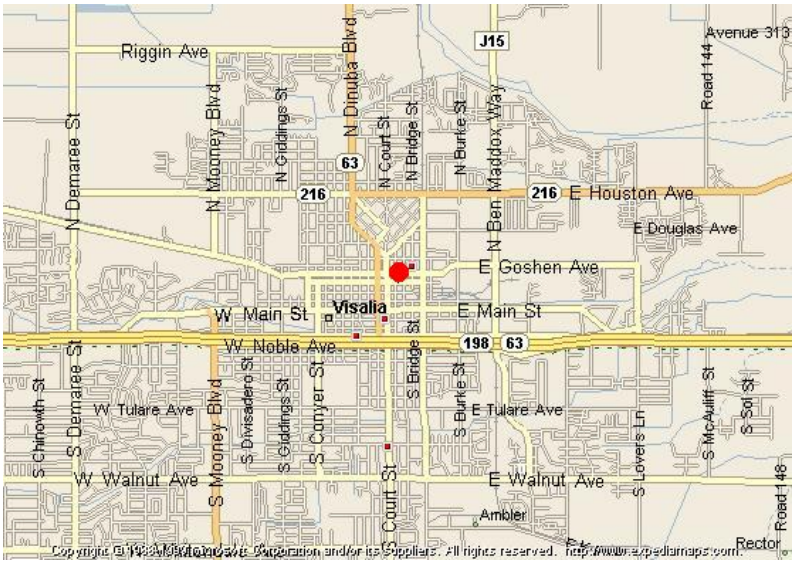
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=24510



Merced – Coffee Road

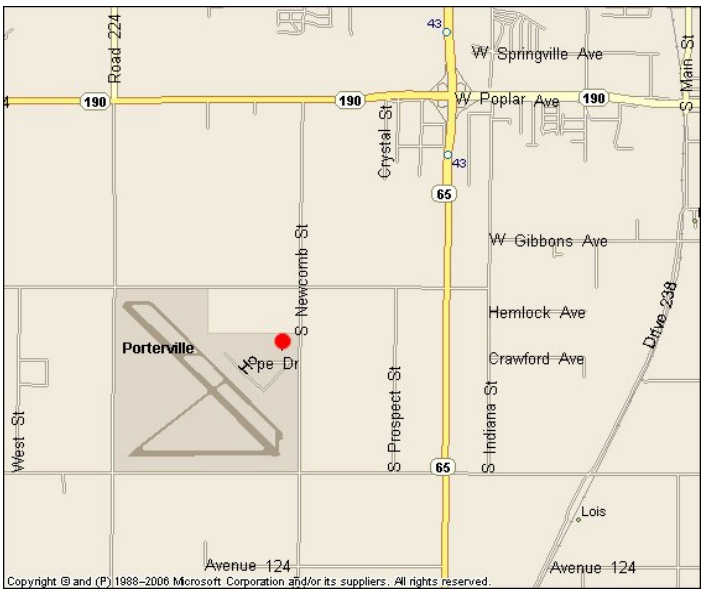
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=24528


Fresno
Fresno - Pacific
Fresno - Drummond
Parlier
Dinuba
Visalia - N. Church
Visalia
Hanford - S. Irwin St.
Hanford
Huron - 4th St.
Corcoran - Patterson Ave.
Corcoran
Kings
Avenal
Tulare
Porterville
Porterville
Delano
© 2012 Europa Technologies
Image © 2012 TerraMetrics
© 2012 Google
Google earth
36°14'20.14" N 119°29'04.55" W elev 254 ft
Eye alt 69.40 mi



Visallia

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=54568

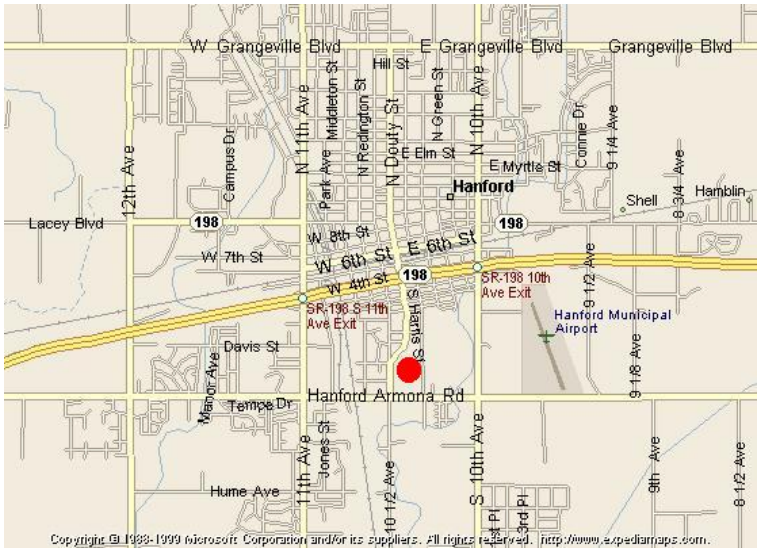


Porterville

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10243

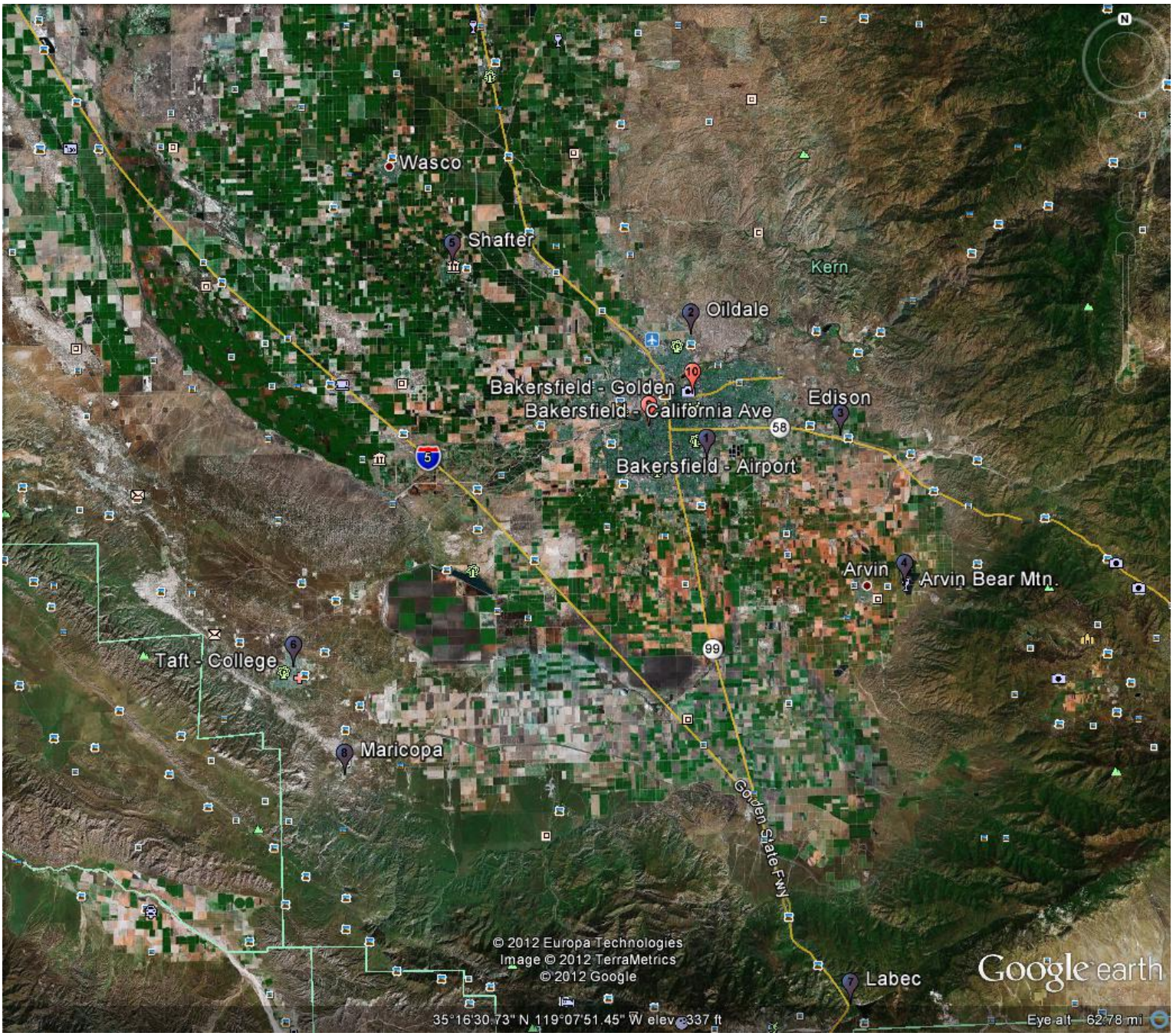
Corcoran – Patterson Avenue

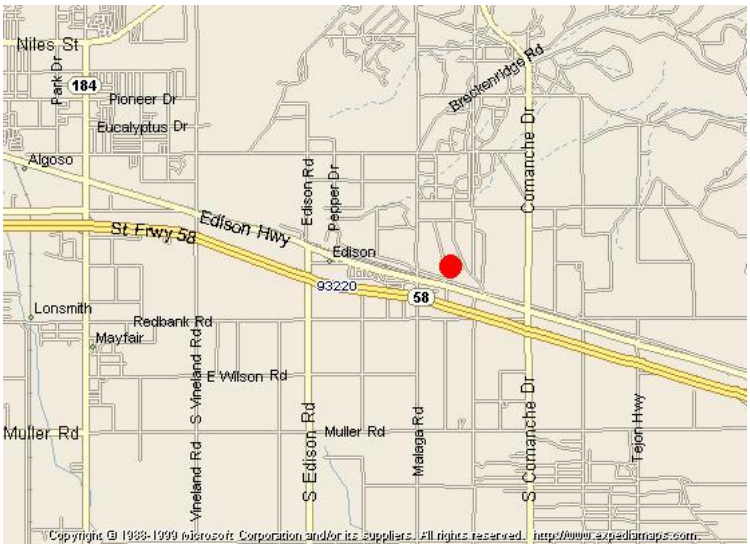
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=16719



Hanford – S Irwin Street

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=16716


Wasco
Shafter
Kern
Oildale
Bakersfield - Golden
Bakersfield - California Ave
Edison
Bakersfield - Airport
Arvin
Arvin Bear Mtn.
Taft - College
Maricopa
Golden State Fwy
Labec
© 2012 Europa Technologies
Image © 2012 TerraMetrics
© 2012 Google
Google earth
35°16'30.73" N 119°07'51.45" W elev 337 ft
Eye alt 62.78 mi



Edison

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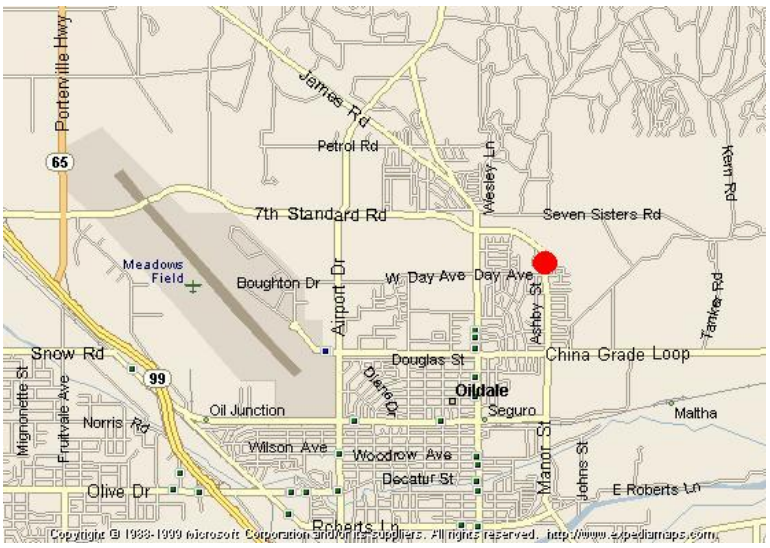
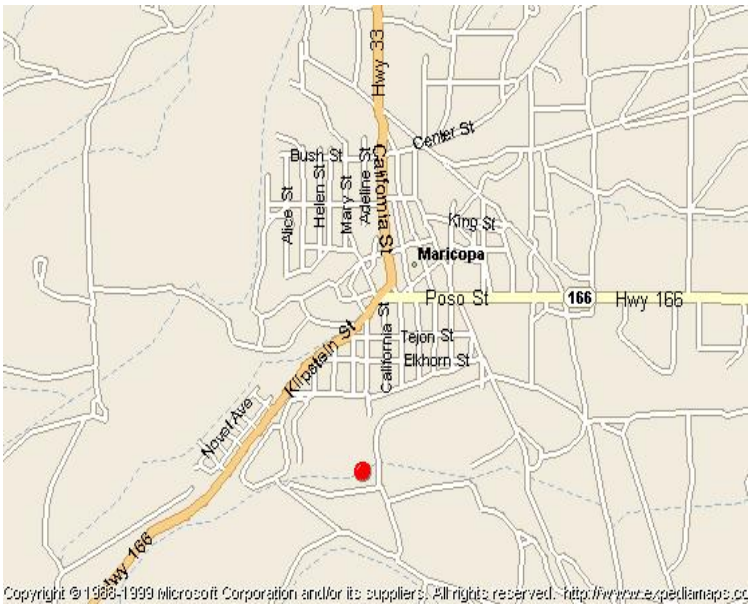


Oildale

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15243

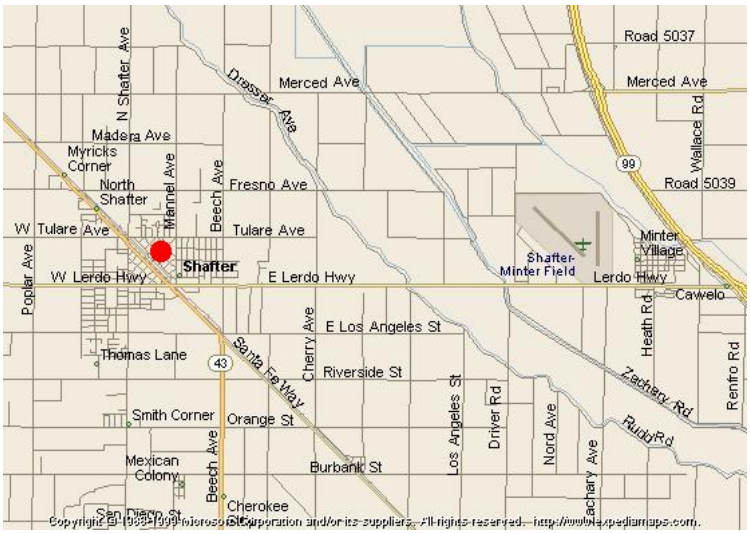


Maricopa

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15246

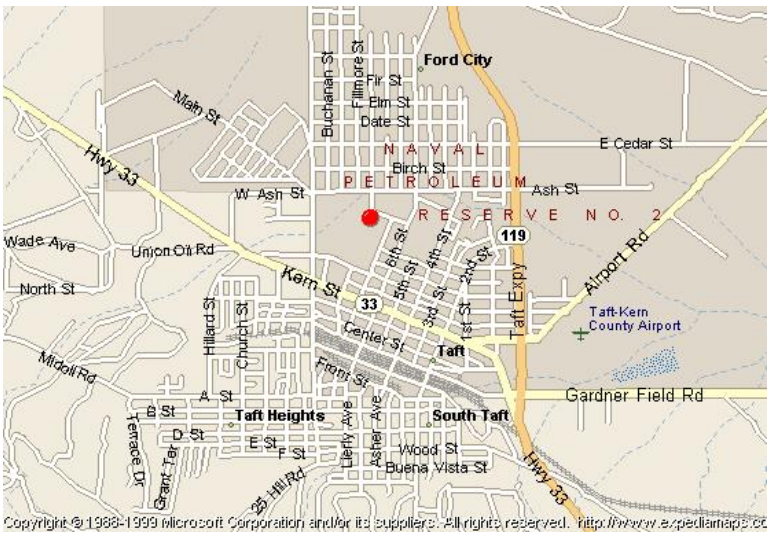
Arvin – Bear Mountian

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15247



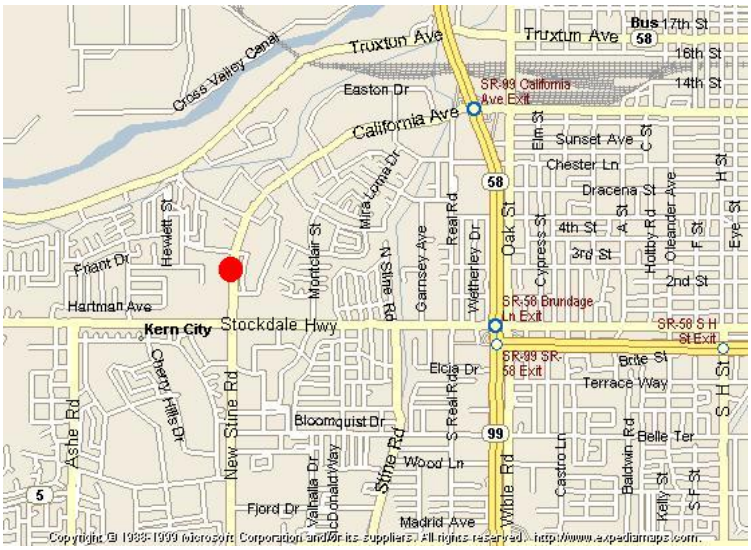
Shafter

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15248



Taft – College

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15250



Bakersfield – California Avenue

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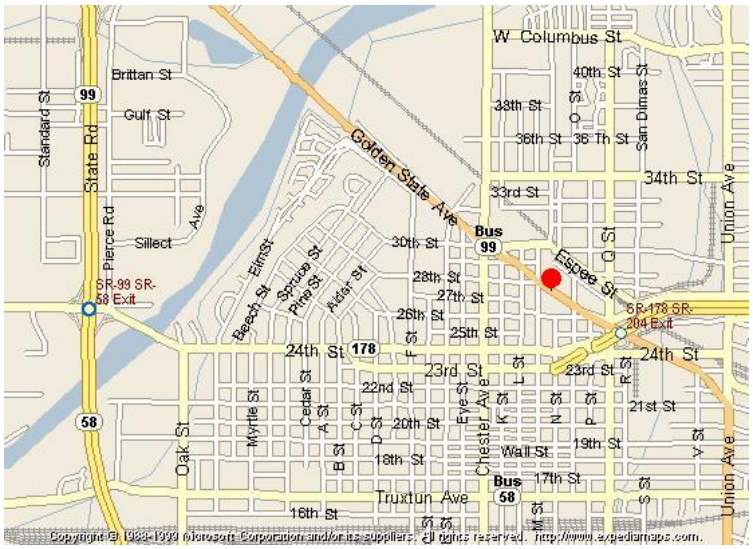
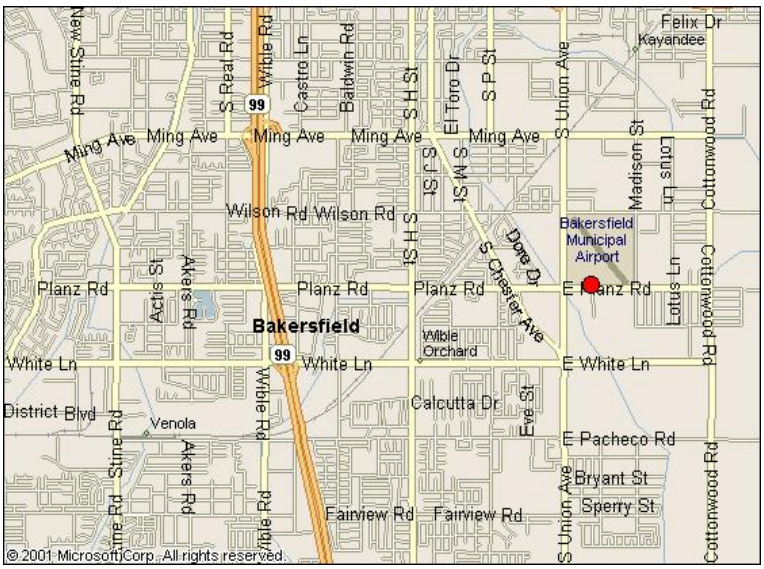
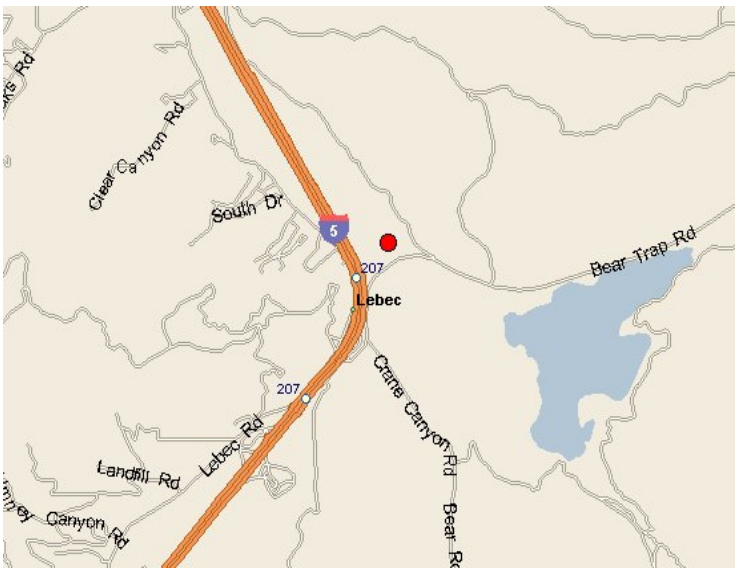


Bakersfield – Golden

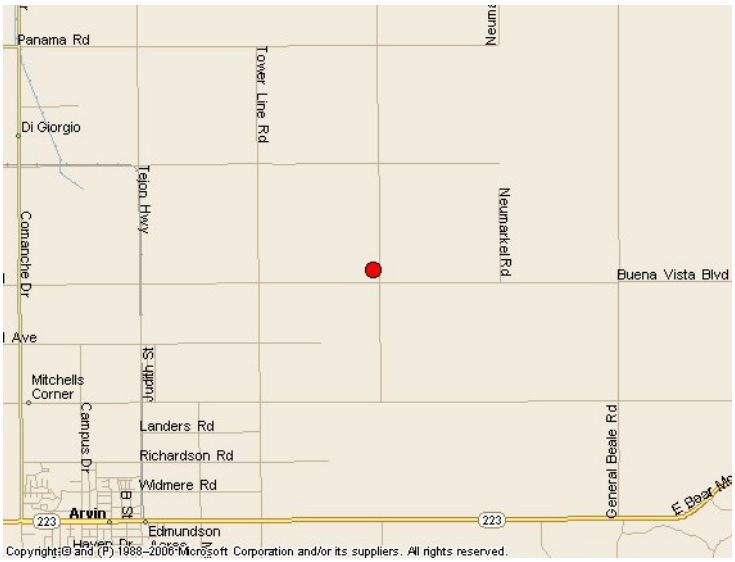
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15256





Bakersfield – Airport

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15258



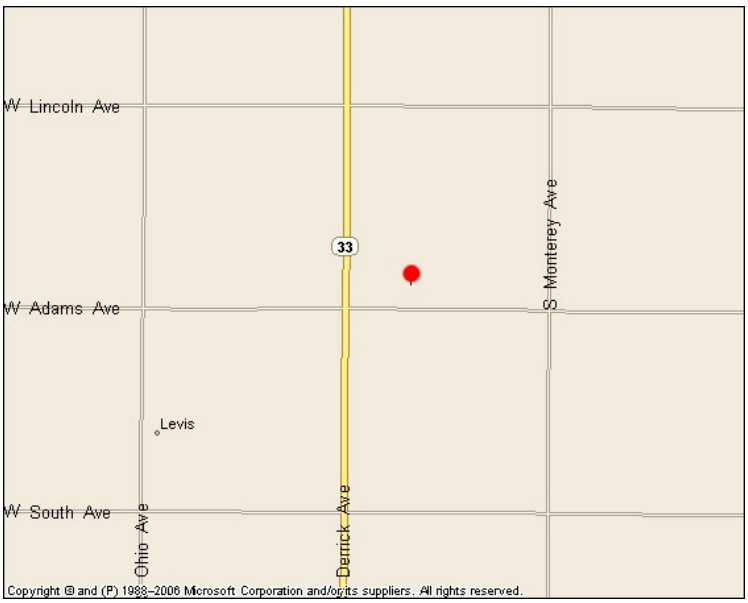
Arvin Di Goirgio

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=15249

Labec

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10240

Fresno
Fresno - Drummond
Tranquility
Hanford - S. Irwin St.
Huron - 4th St.
Coalinga
Kings
Image © 2012 TerraMetrics
© 2012 Google
Google earth
36°26'00.97" N 120°07'50.06" W elev 229 ft
Eye alt 49.61 mi

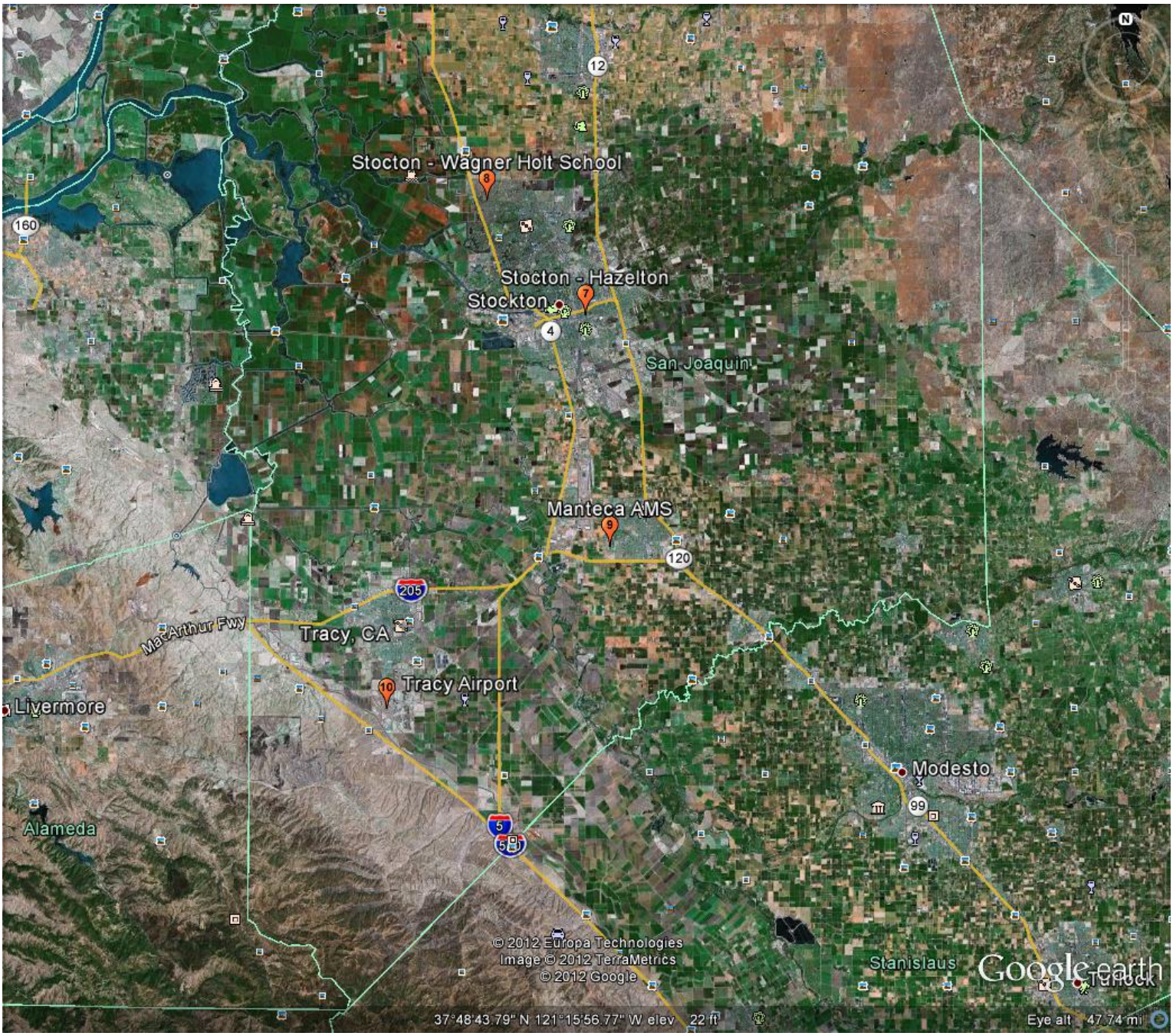


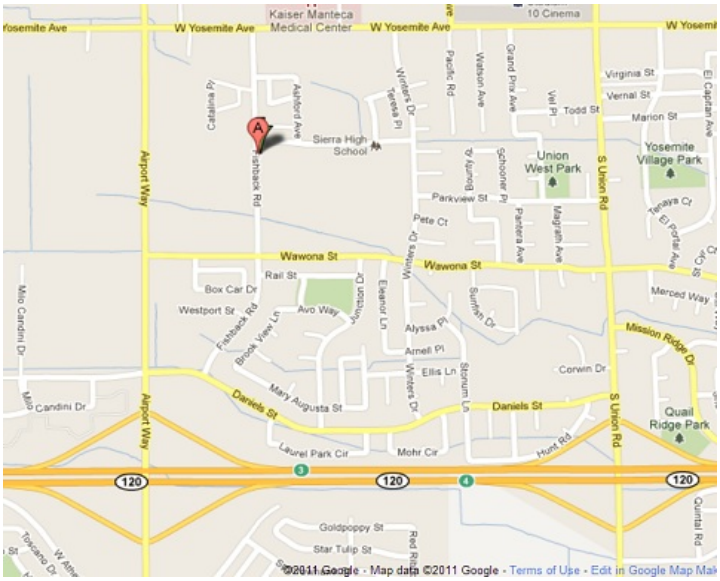
Tranquility

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10242

Huron – 4th Street

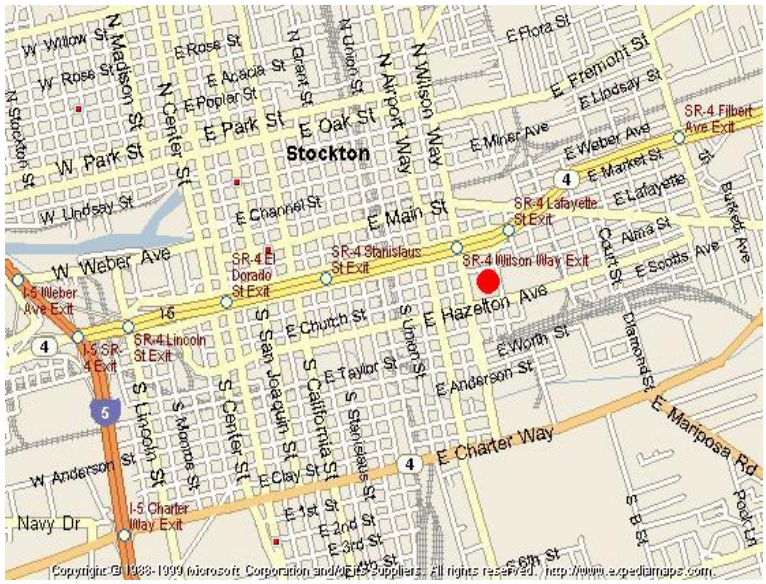
http://www.arb.ca.gov/qaweb/site.php?s_arb_code=10247


Stocton - Wagner Holt School
Stocton - Hazelton
Stockton
San Joaquin
Manteca AMS
Tracy, CA
MacArthur Fwy
Tracy Airport
Livermore
Alameda
Modesto
Stanislaus
Turlock
© 2012 Europa Technologies
Image © 2012 TerraMetrics
© 2012 Google
Google earth
37°48'43.79" N 121°15'56.77" W elev 22 ft
Eye alt 47.74 mi



Manteca AMS

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=24531



Stockton – Hazelton

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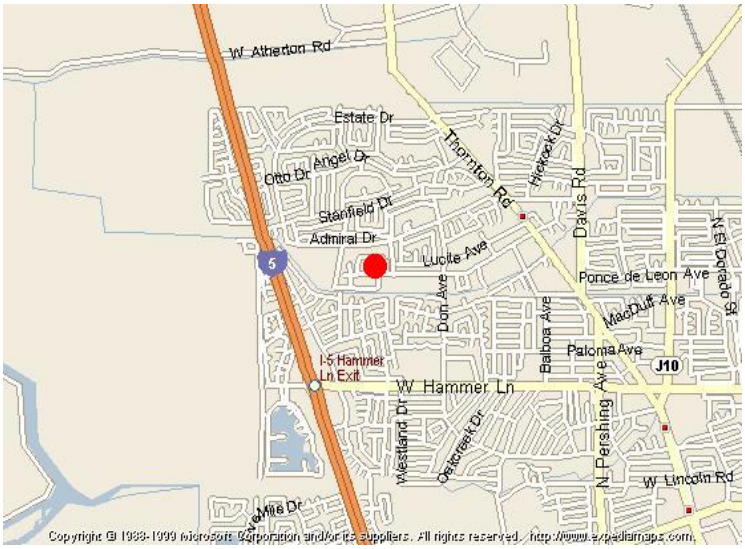
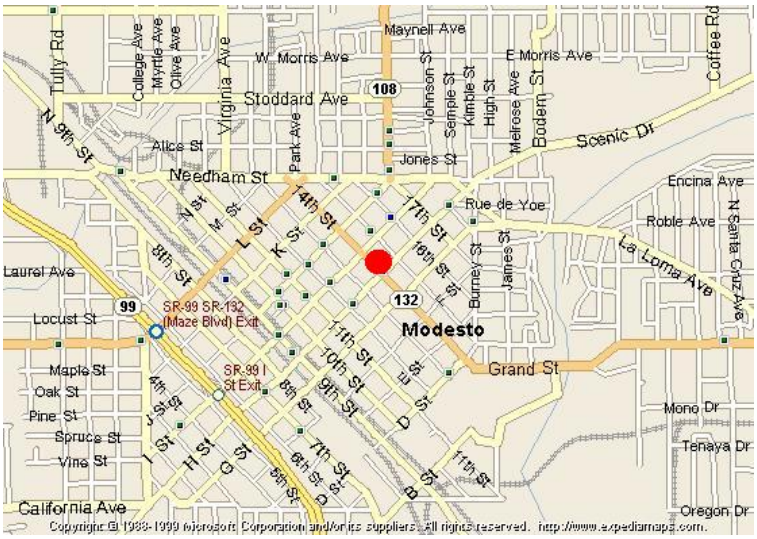
Tracy – Airport

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=39271



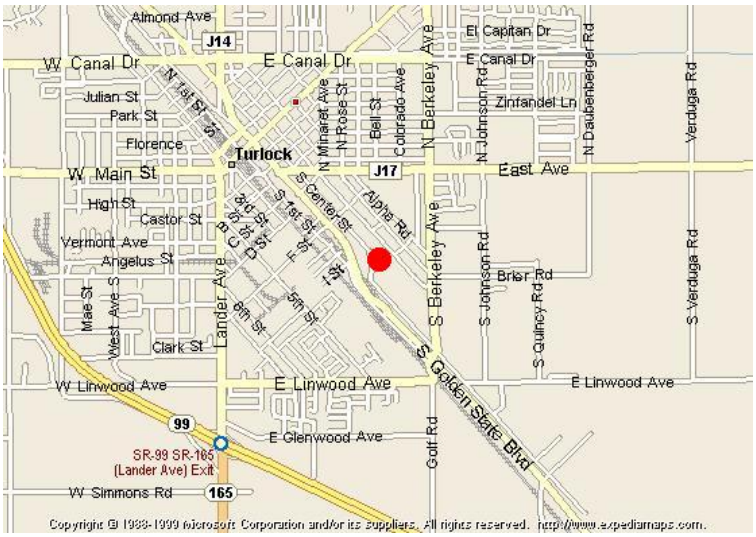
Stockton – Wagner Holt School

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=39288



Modesto – 14th St.

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=50568



Turlock –S Minaret Ave.

http://www.arb.ca.gov/qaweb/site.php?s_arb_code=50573