

Western States One-Stop Shop for Rural Traveler Information

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**I-80 Winter Operations Coalition
Fall 2011 Meeting, Reno NV
Wednesday, September 28, 2011**



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ENGINEERING

Western Transportation Institute

Disclaimer

The opinions, findings and conclusions expressed in this presentation are those of the authors and not necessarily those of the U.S. Department of Transportation, the California Department of Transportation or Montana State University.

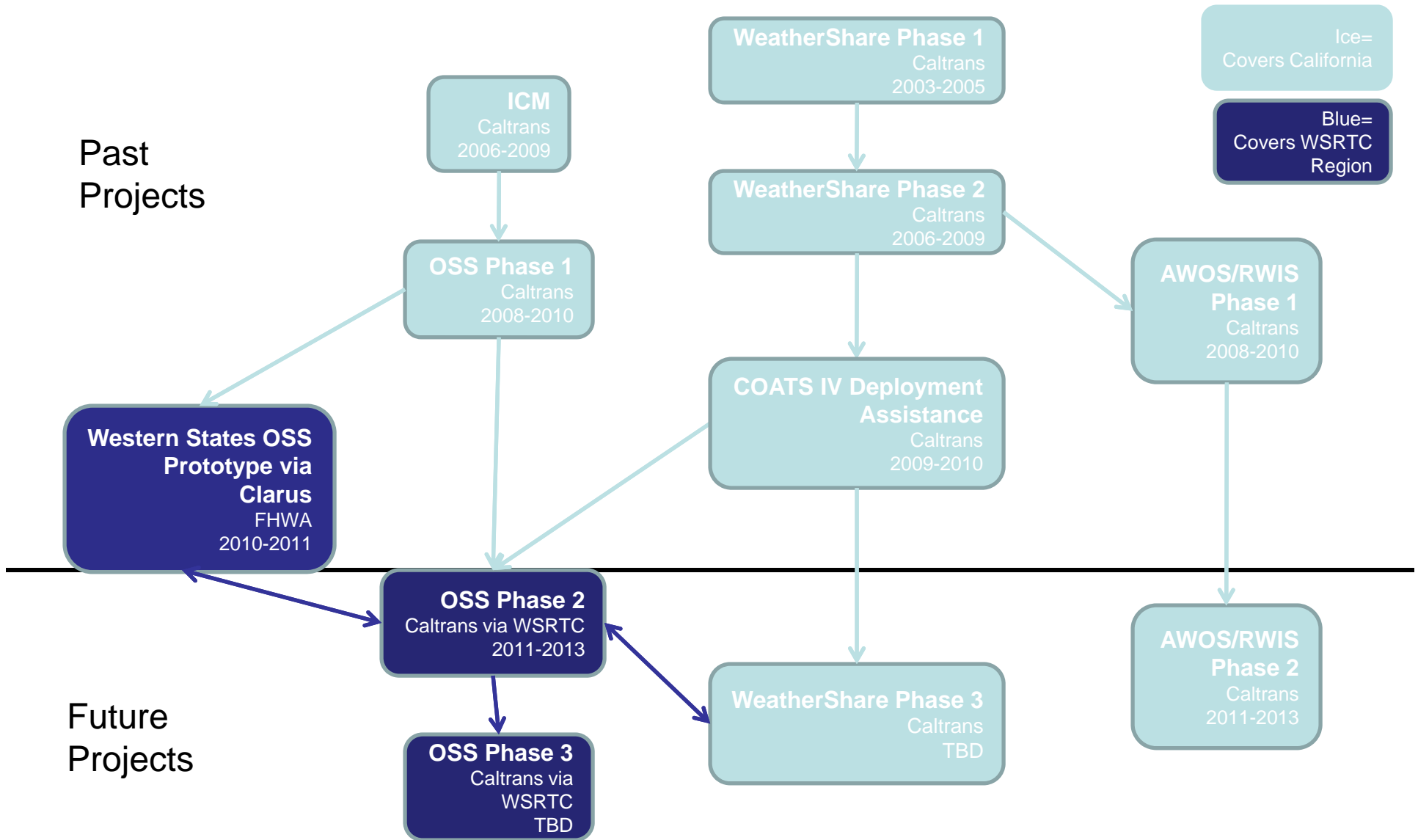


Western States Rural Transportation Consortium - WSRTC

- 1998 – 2009 California Oregon Advanced Transportation System (COATS)
- 2009 WSRTC Chartered
 - Western States Forum in June each year
 - Two incubator projects a year
 - Other projects per membership and funding
 - Websites <http://www.westernstates.org> and <http://www.westernstatesforum.org>
- 2010 WSRTC Transportation Pooled Fund TPF-5(241)
 - WA Lead State, CA Sponsoring, OR and NV members
- 2011 Master Agreement between WSDOT and WTI

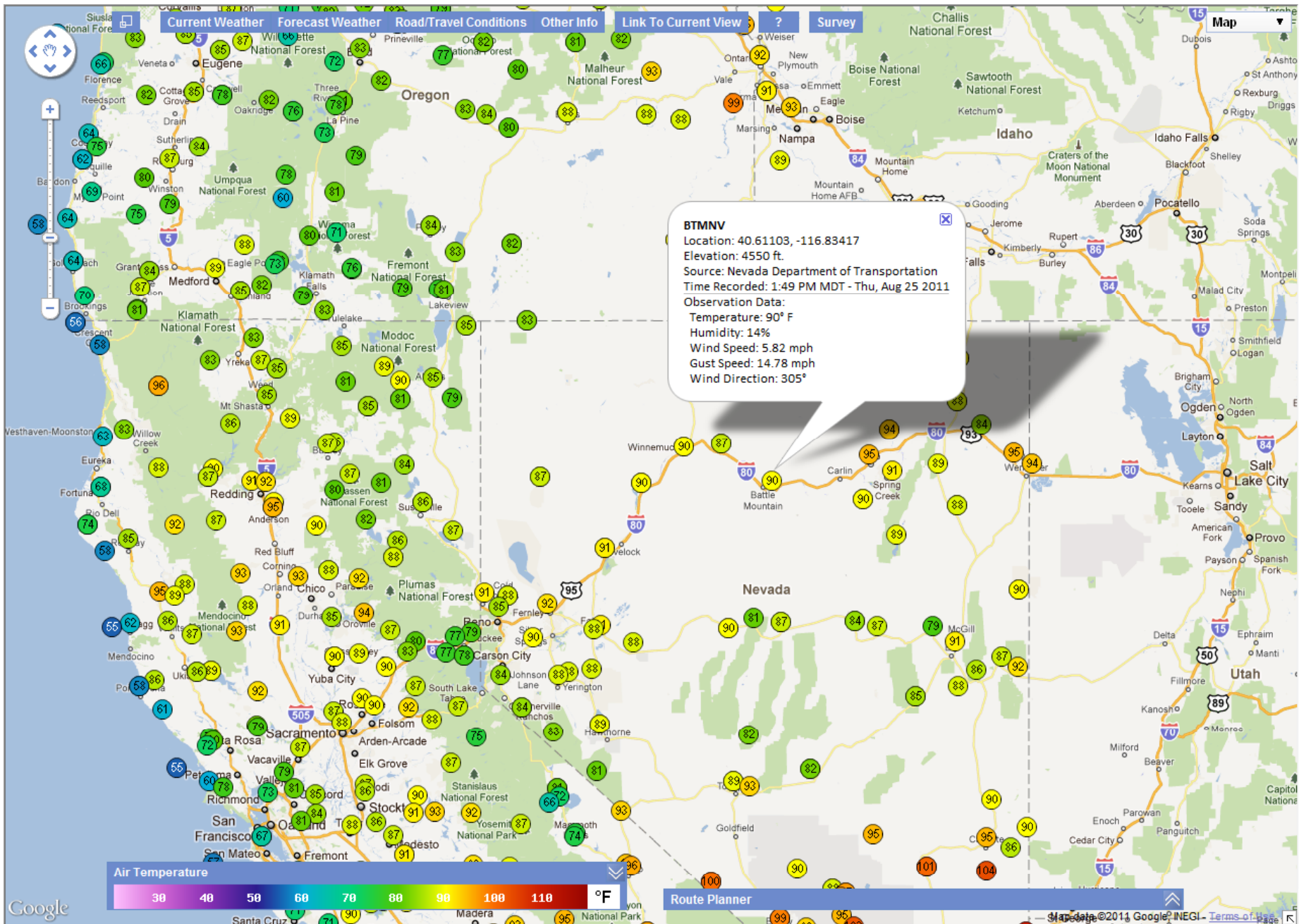


Closely related OSS efforts

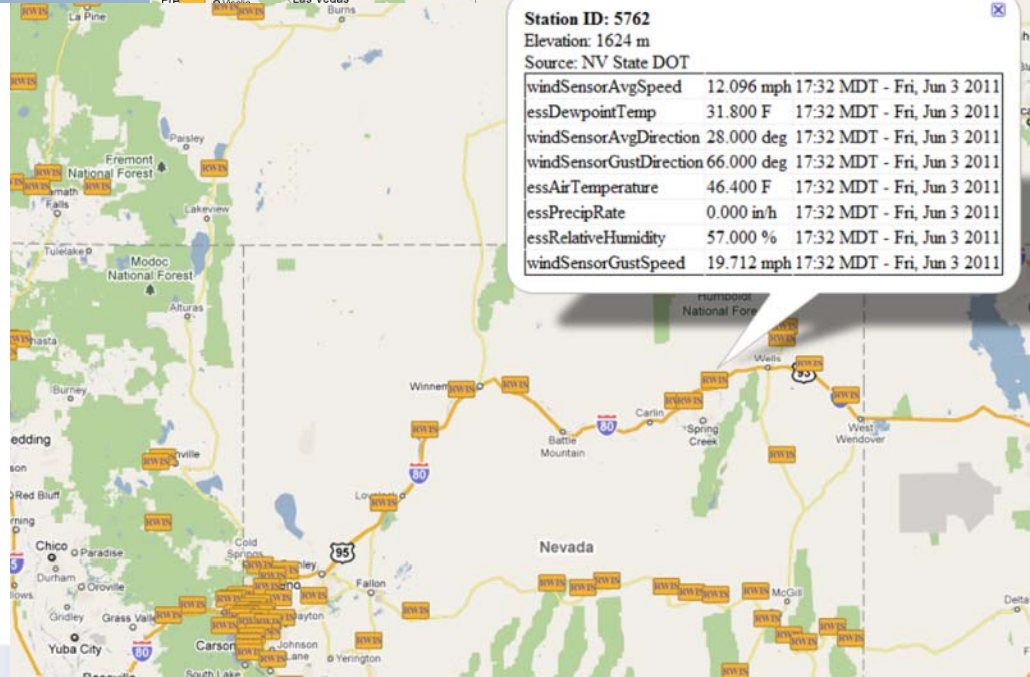
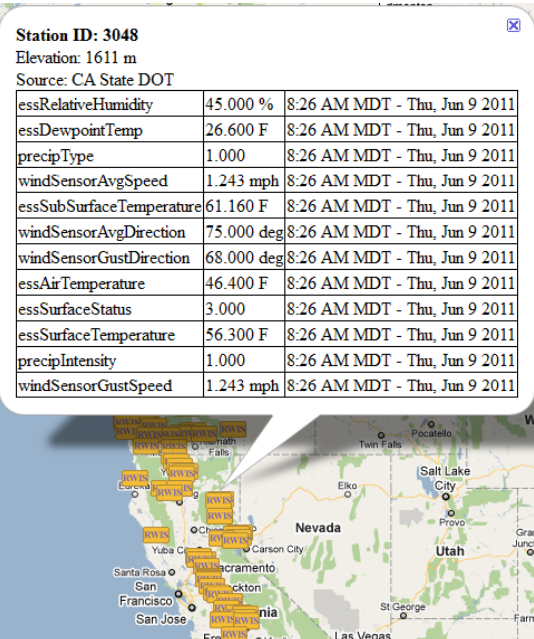
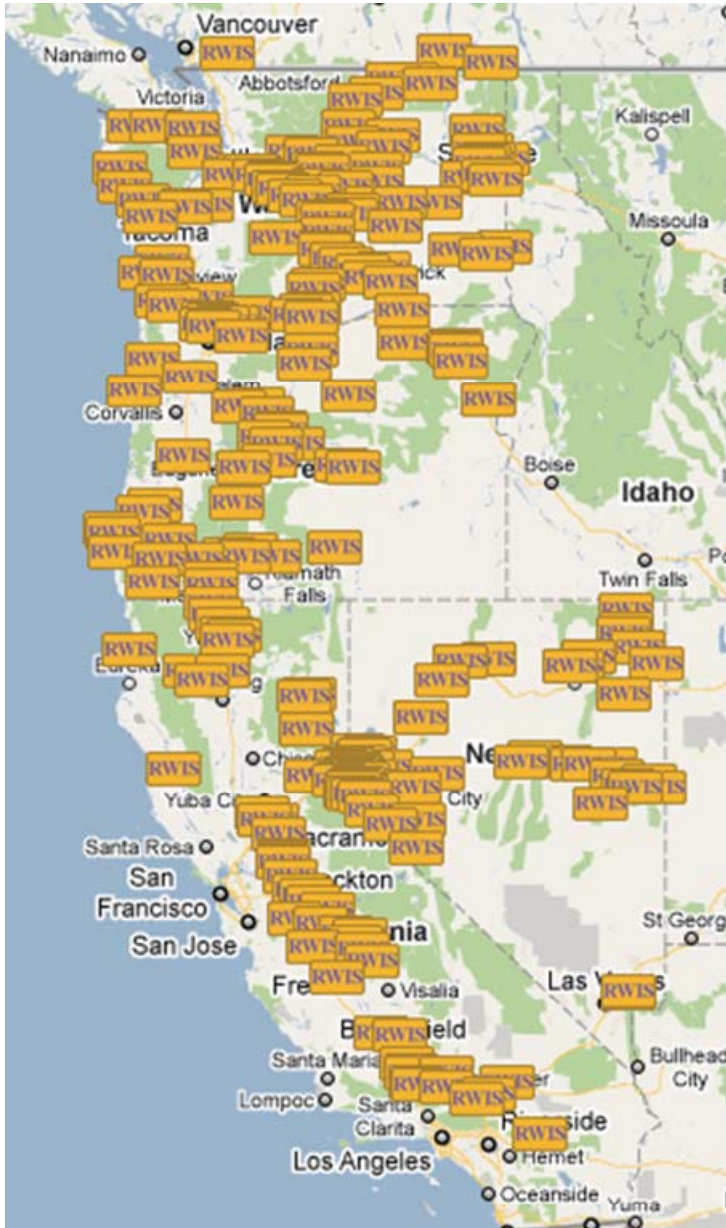


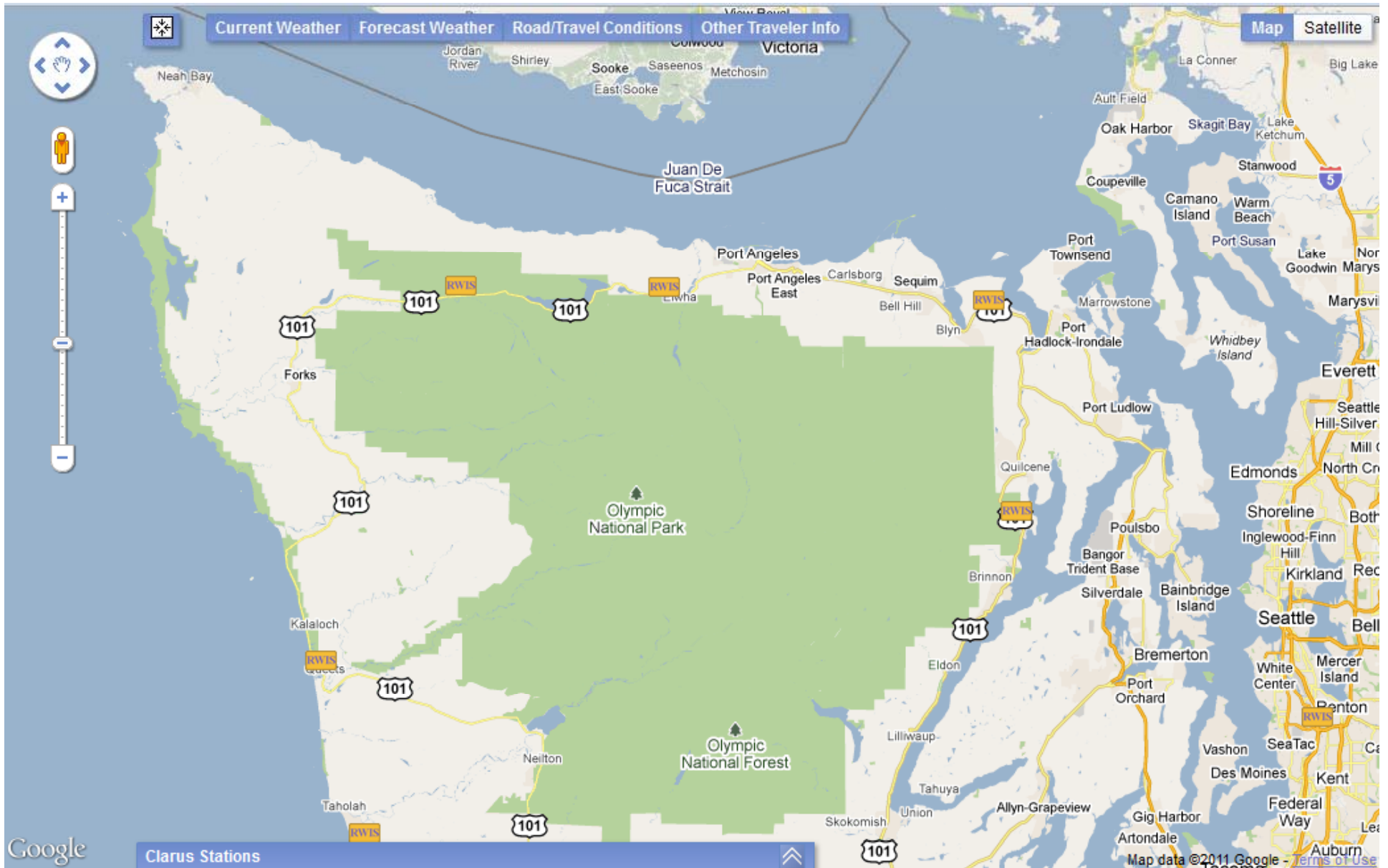
Data Sources Utilized

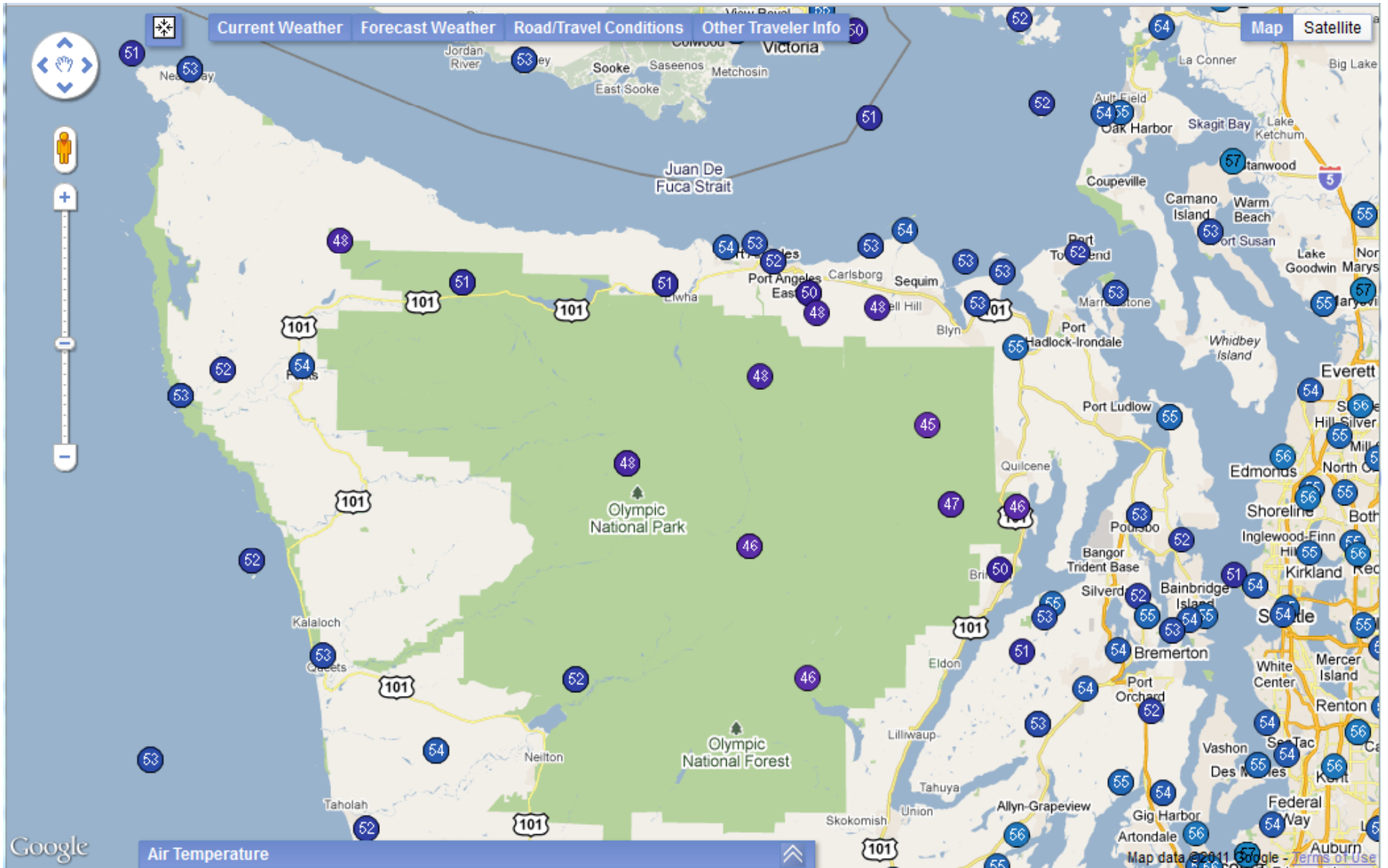
Source	Dataset	Known Coverage/ Availability
<i>Clarus</i>	ESS Sensor Data	CA, OR, NV, WA
MADIS and Mesowest	Other Weather Sensor Data	CA, OR, NV, WA
NOAA - NWS	National Digital Forecast Database (NDFD)	CA, OR, NV, WA
NOAA - NWS	Weather Warnings, Alerts, Advisories, Special Weather Statements	CA, OR, NV, WA
USGS	Elevation Data	CA, OR, NV, WA
State DOTs	CCTV Images	CA, OR, WA
State DOTs	Chain Requirements	CA, OR
State DOTs	Incidents	CA
State DOTs	Construction	CA, OR
State DOTs	Other Points of Interest: , Vista Points, Rest Areas, Truck Scales	CA

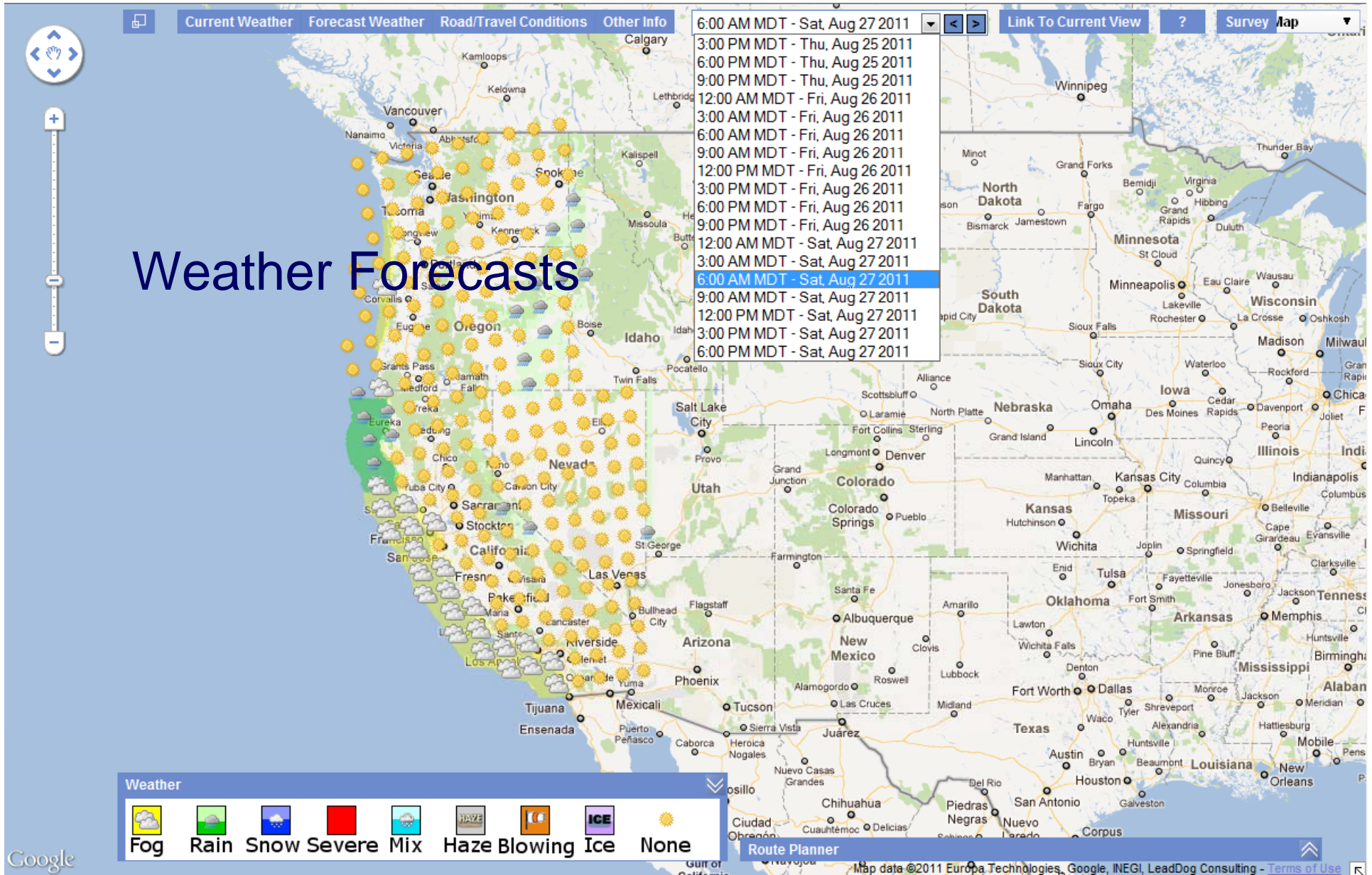


Clarus Data

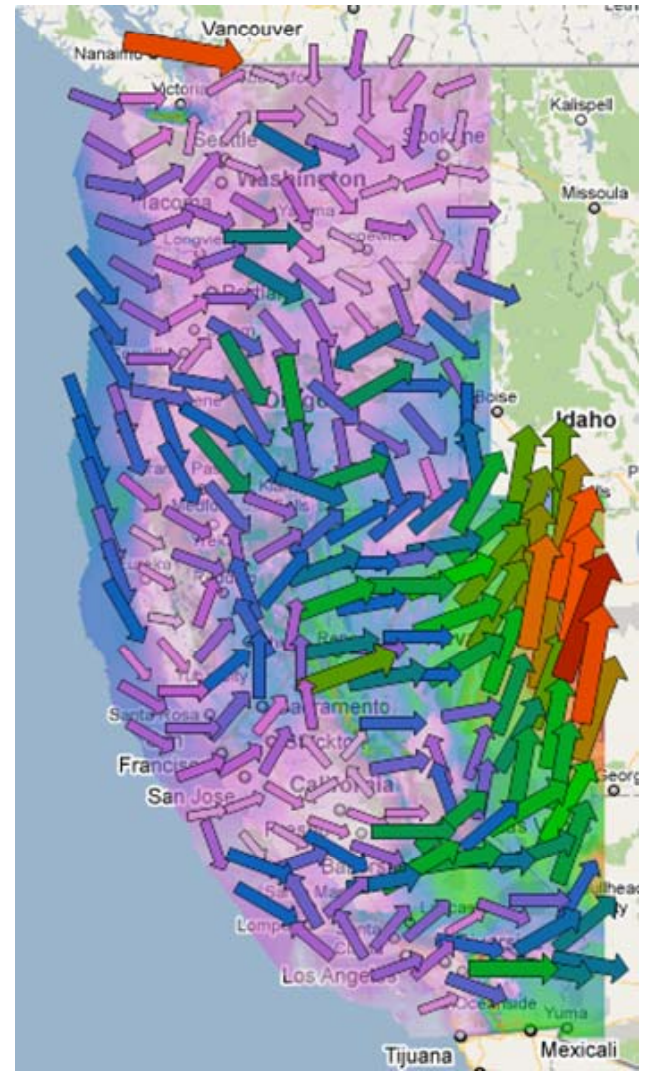
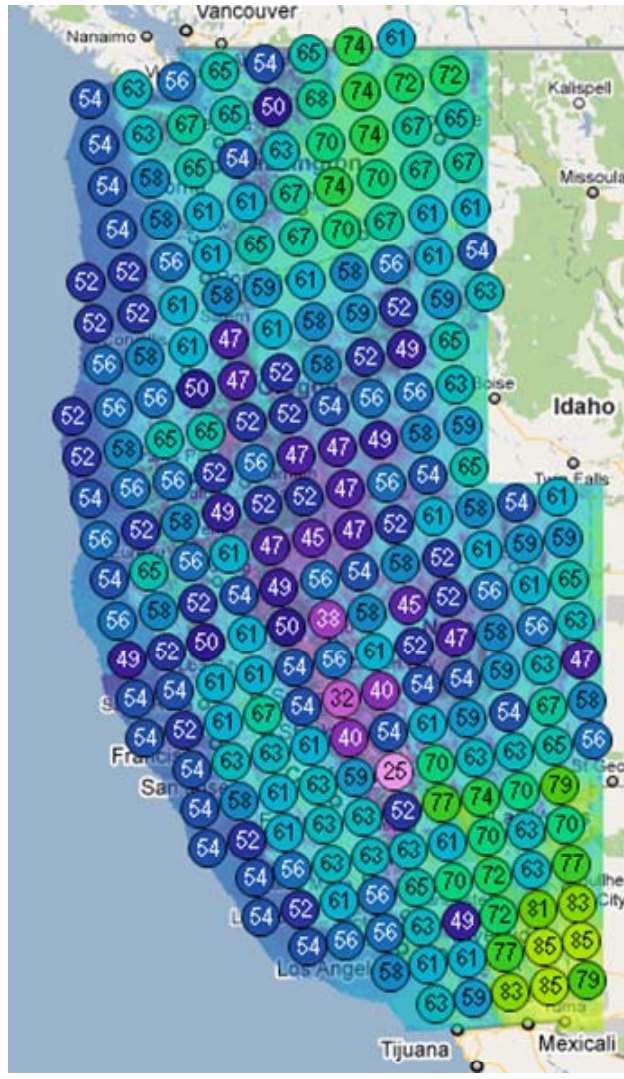
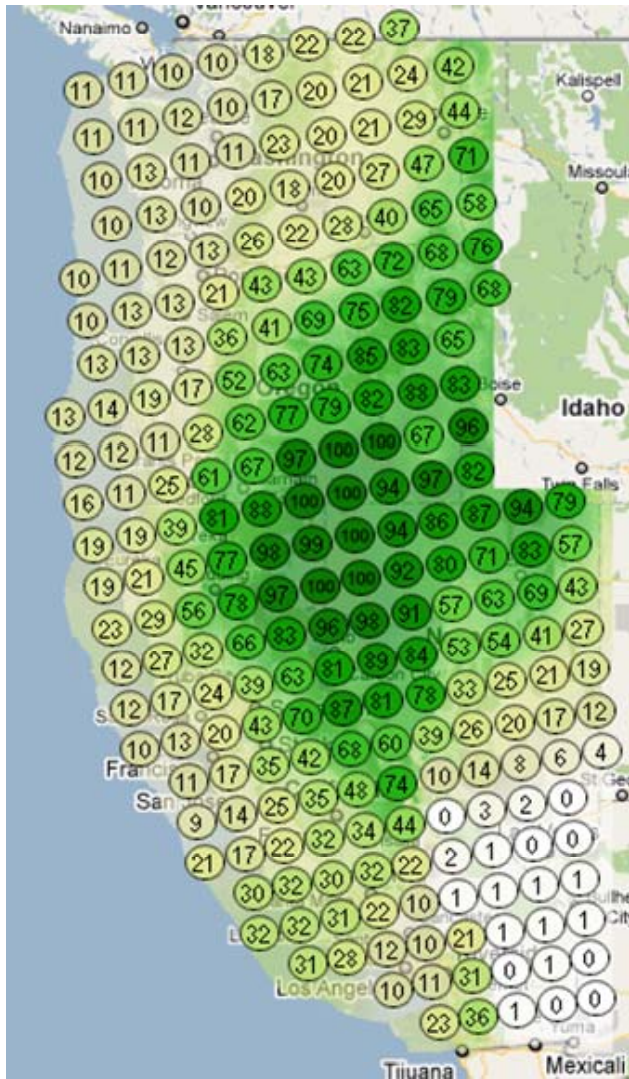




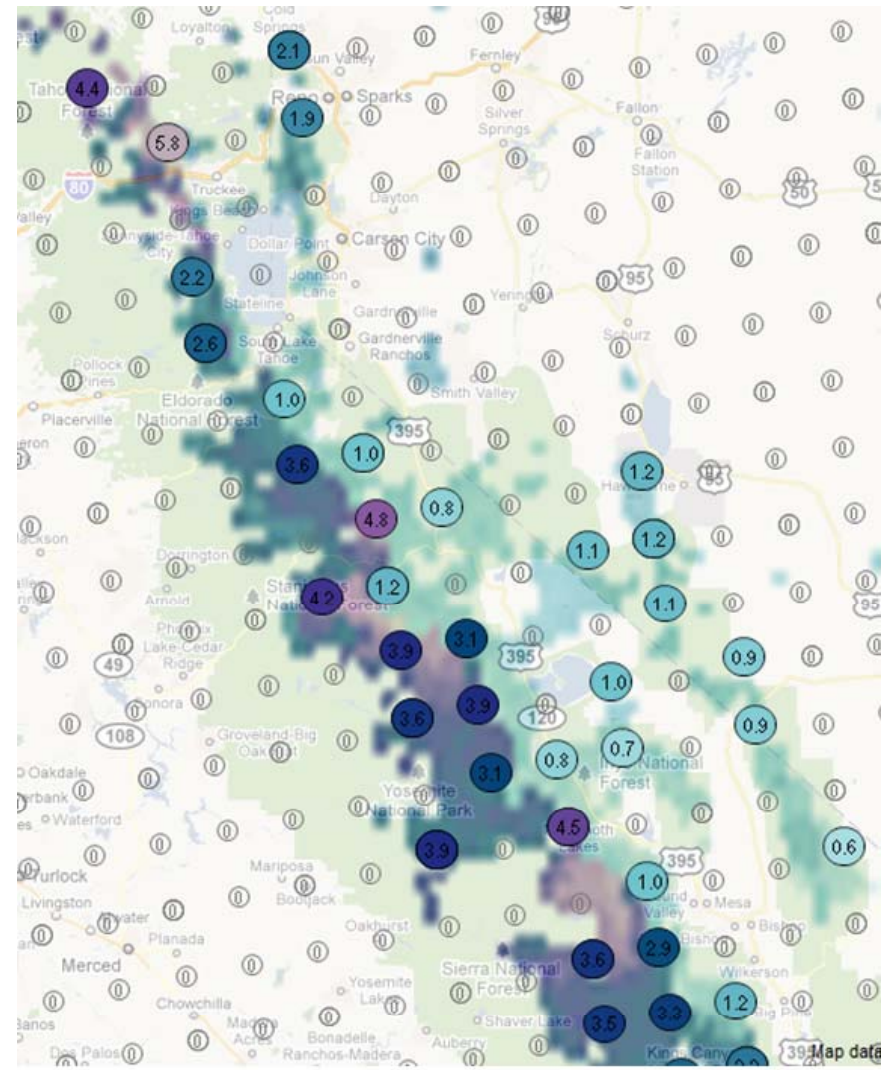
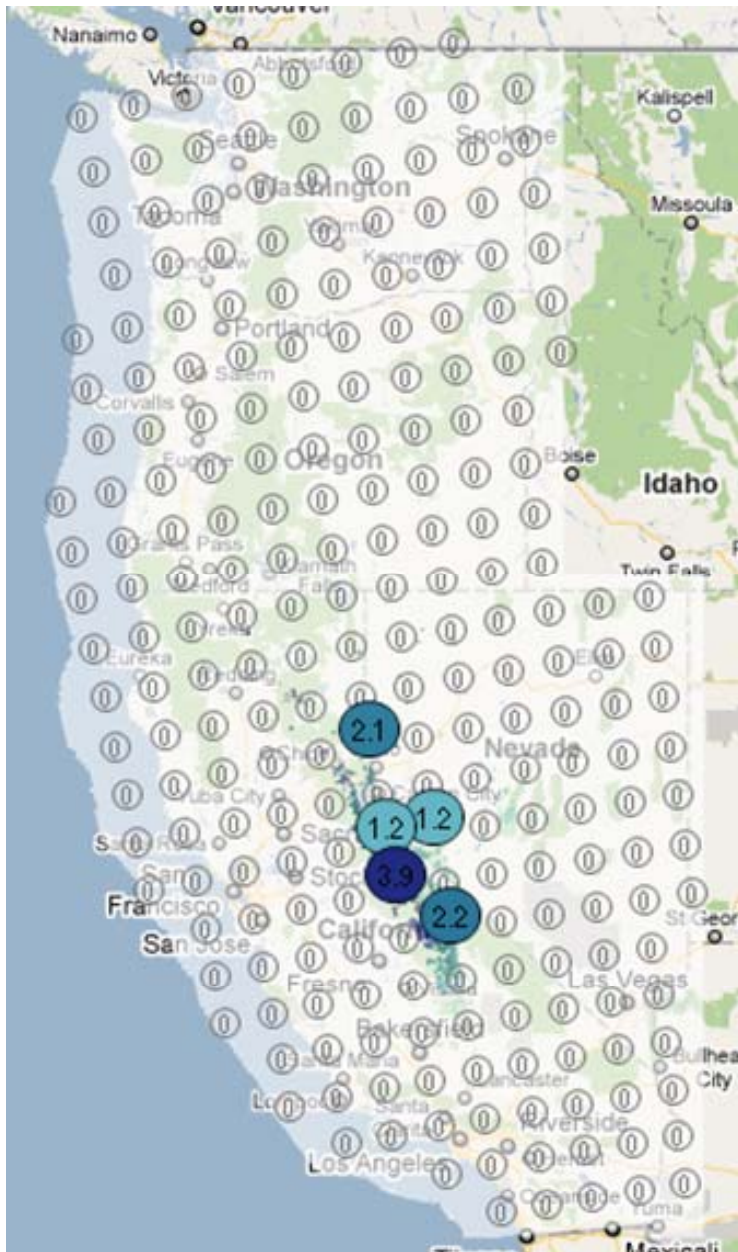




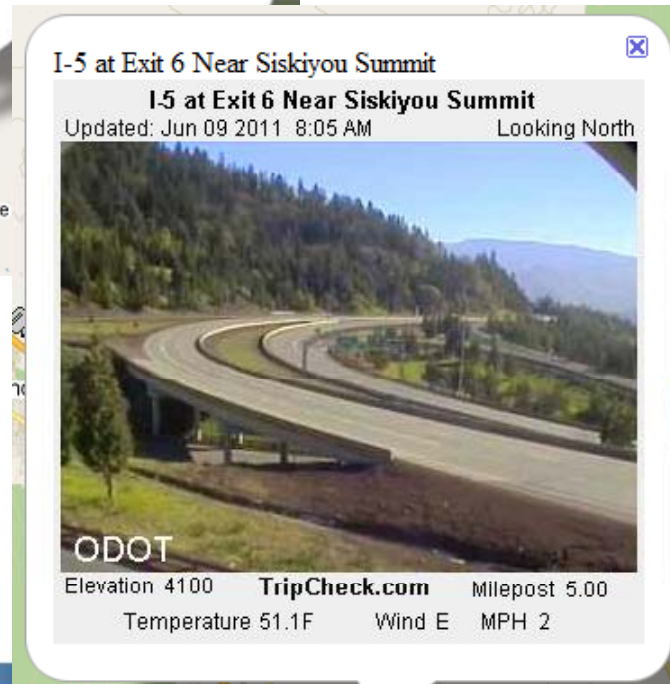
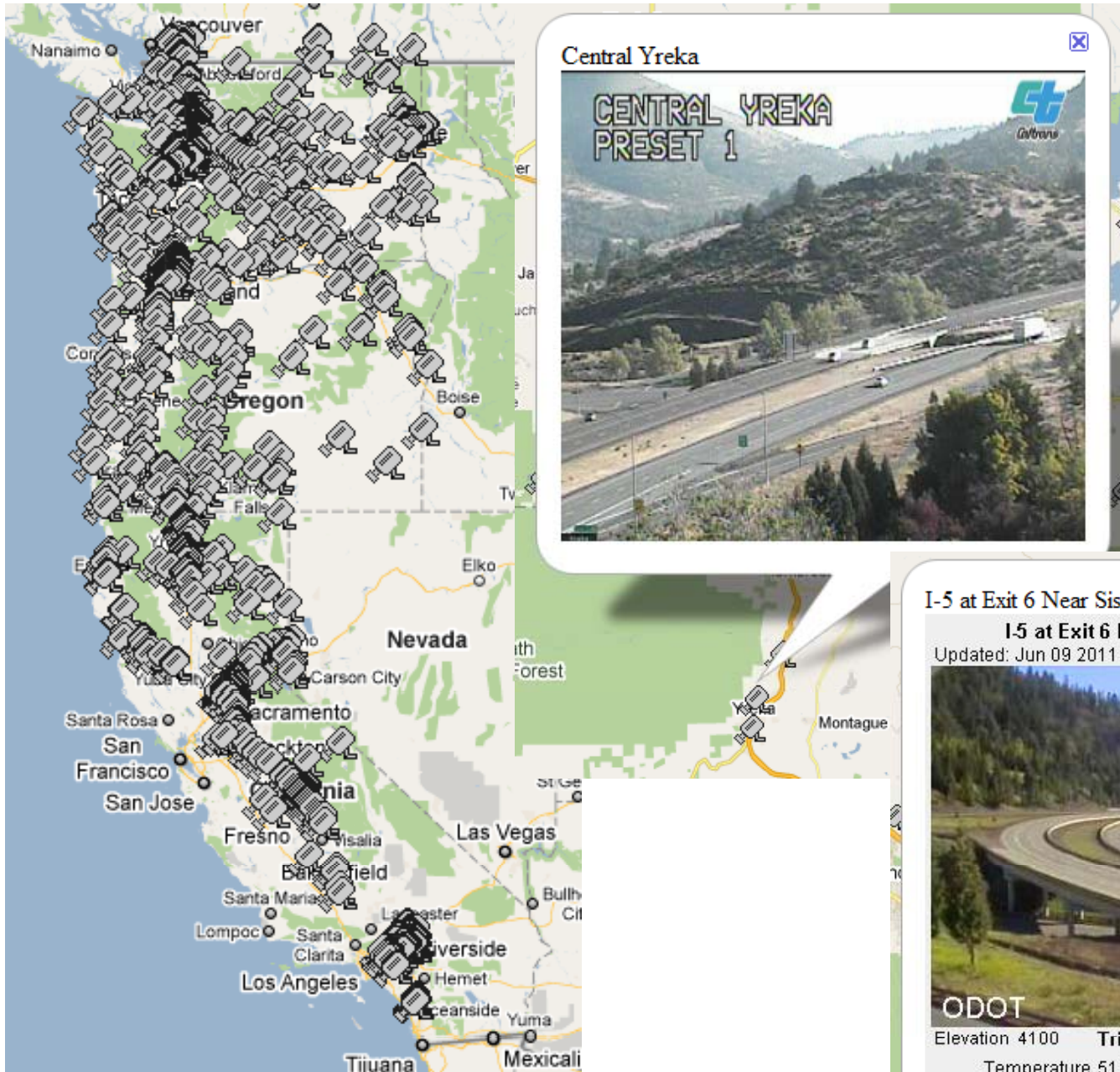
Information at a Glance



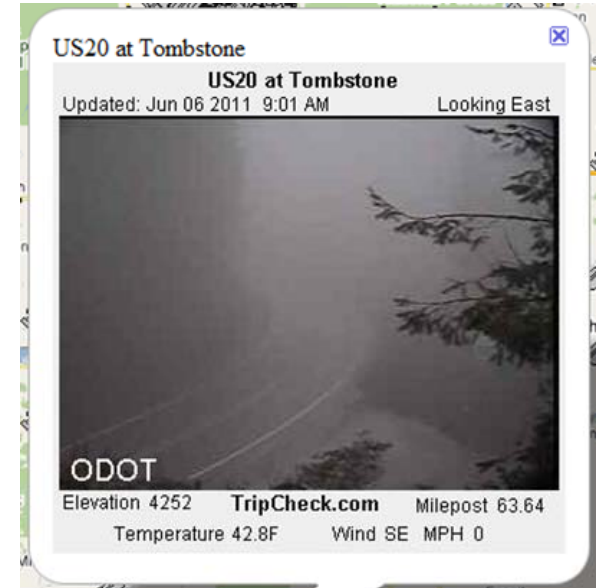
Further Detail Upon Zoom

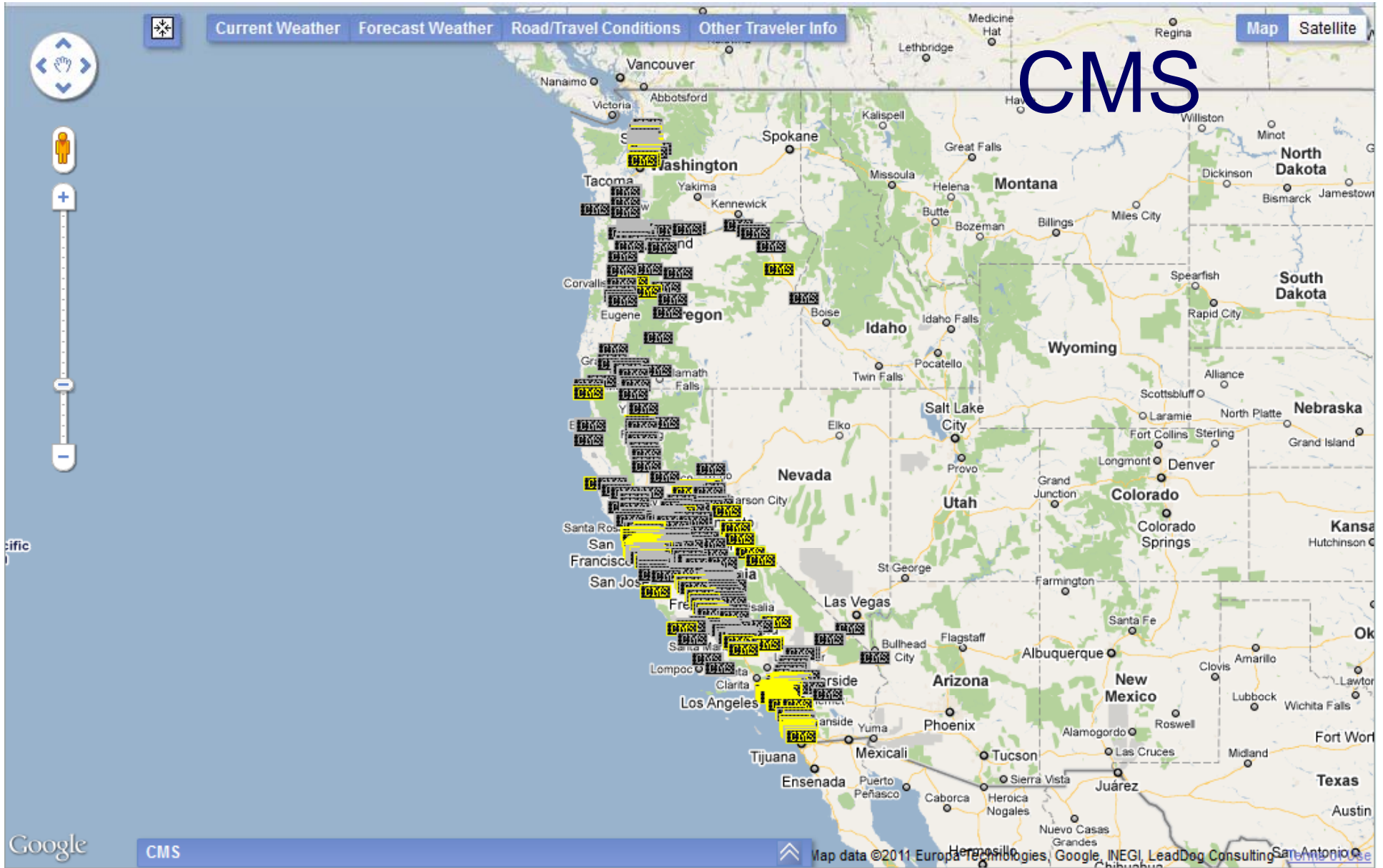


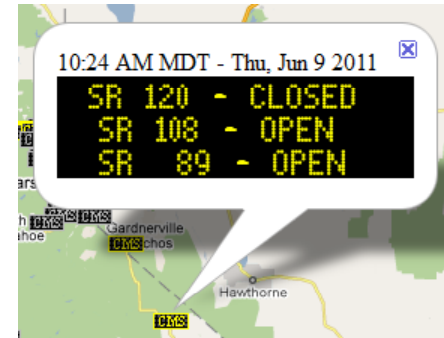
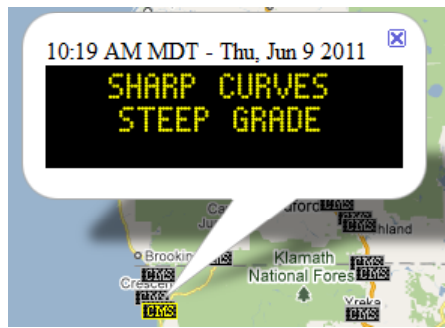
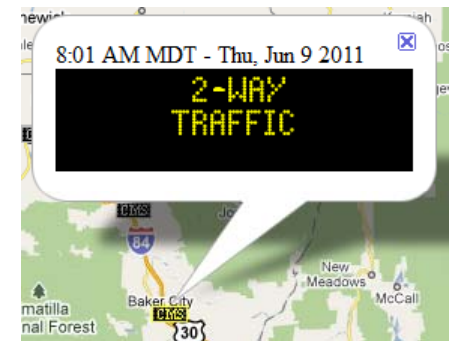
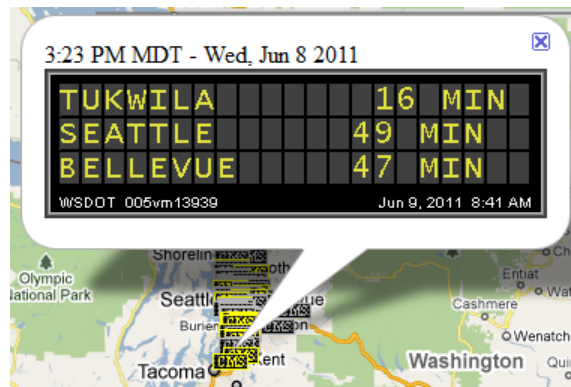
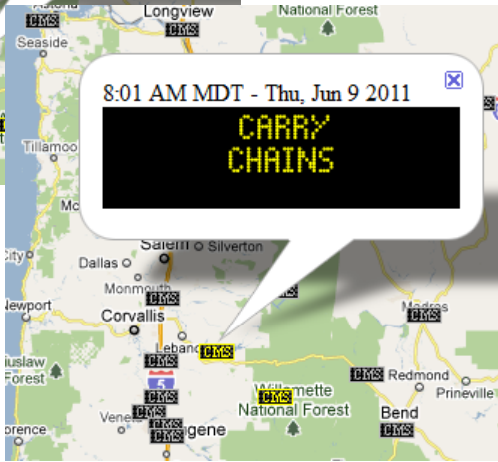
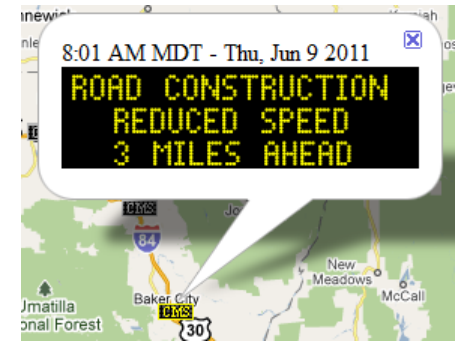
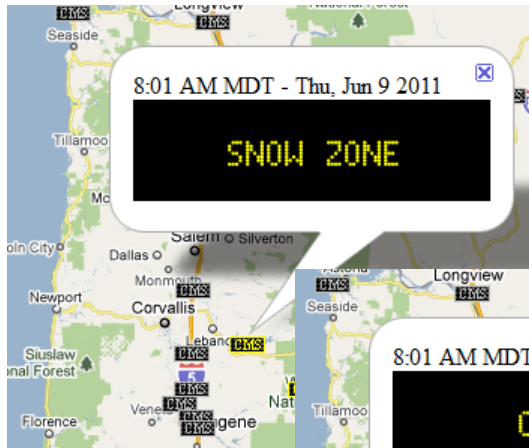
CCTV Images

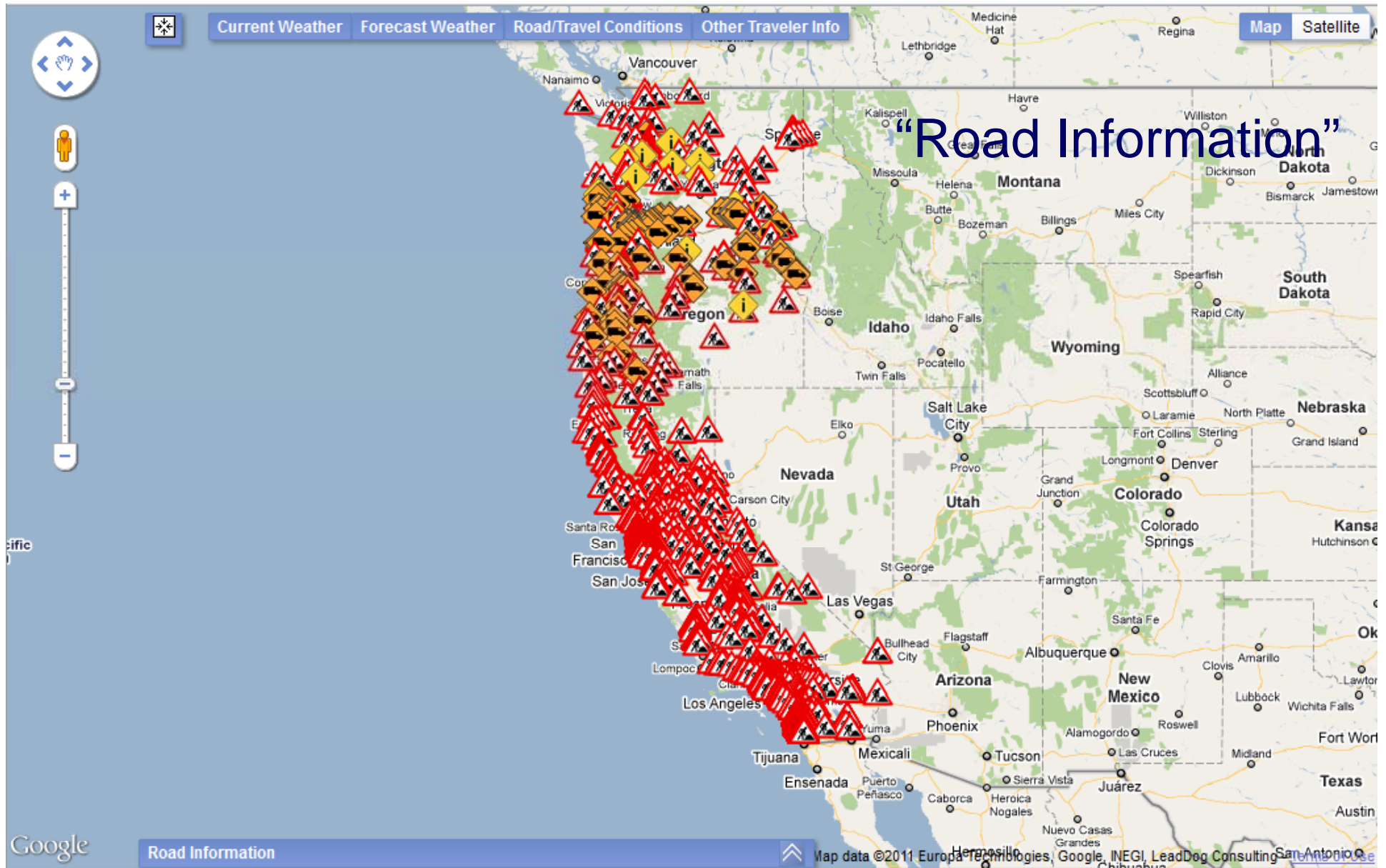


CCTV Images convey a lot of information ...









HATCHERY CREEK RD

Updated: 5:17 PM MDT - Mon, Jun 6 2011

Type: Construction

Route: 002

Milepost: 91.00

Description: On US 2, west of Leavenworth in Tumwater Canyon Wednesday and Thursday ONLY from 7 a.m. to 4 p.m., on Wednesday and 7 a.m. to noon, on Thursday, expect up to 20 minute delays with single lane flagger controlled traffic while WSDOT Geotech Engineers measure the slope for the steel netting that will be hung when these slopes are stabilized later this summer.

Advice:

UMPQUA

Updated: 8:05 AM MDT - Thu, Jun 9 2011

Type: Maintenance Work

Route: ORE38

Milepost: 18

Severity: Estimated delay under 20 minutes

Description: Traffic control with flaggers for brush cutting crew.

Advice:

Junction w/Route 395 to End of Pavement

Updated: 8:01 AM MDT - Thu, Jun 9 2011

Type: Highway Construction

Route: 270

Milepost: 0

Description: Estimated delay: 20

Advice:

None

Updated: 8:42 AM MDT - Thu, Jun 9 2011

Type: Lane Closure

Route: 090

Milepost: 111.00

Description: Lane Closure for maintenance work on I-90 west bound between milepost 111 to milepost 110 beginning at 7:40 AM on June 09, 2011 until 3:11 AM.

Advice:

PACIFIC

Updated: 8:00 PM MDT - Wed, Jun 8 2011

Type: Commercial Vehicle Information

Route: I-5

Milepost: 0

Severity: Informational only

Description: Effective May 24, 2011, this section of I-5 will be restricted to 16 feet 00 in. in width between the hours of 7:00 AM & 7:00 PM (DAYTIME). Estimated date of completion is June 30, 2011.

Advice:

THE DALLES-CALIFORNIA

Updated: 11:46 AM MDT - Tue, Jun 7 2011

Type: Information

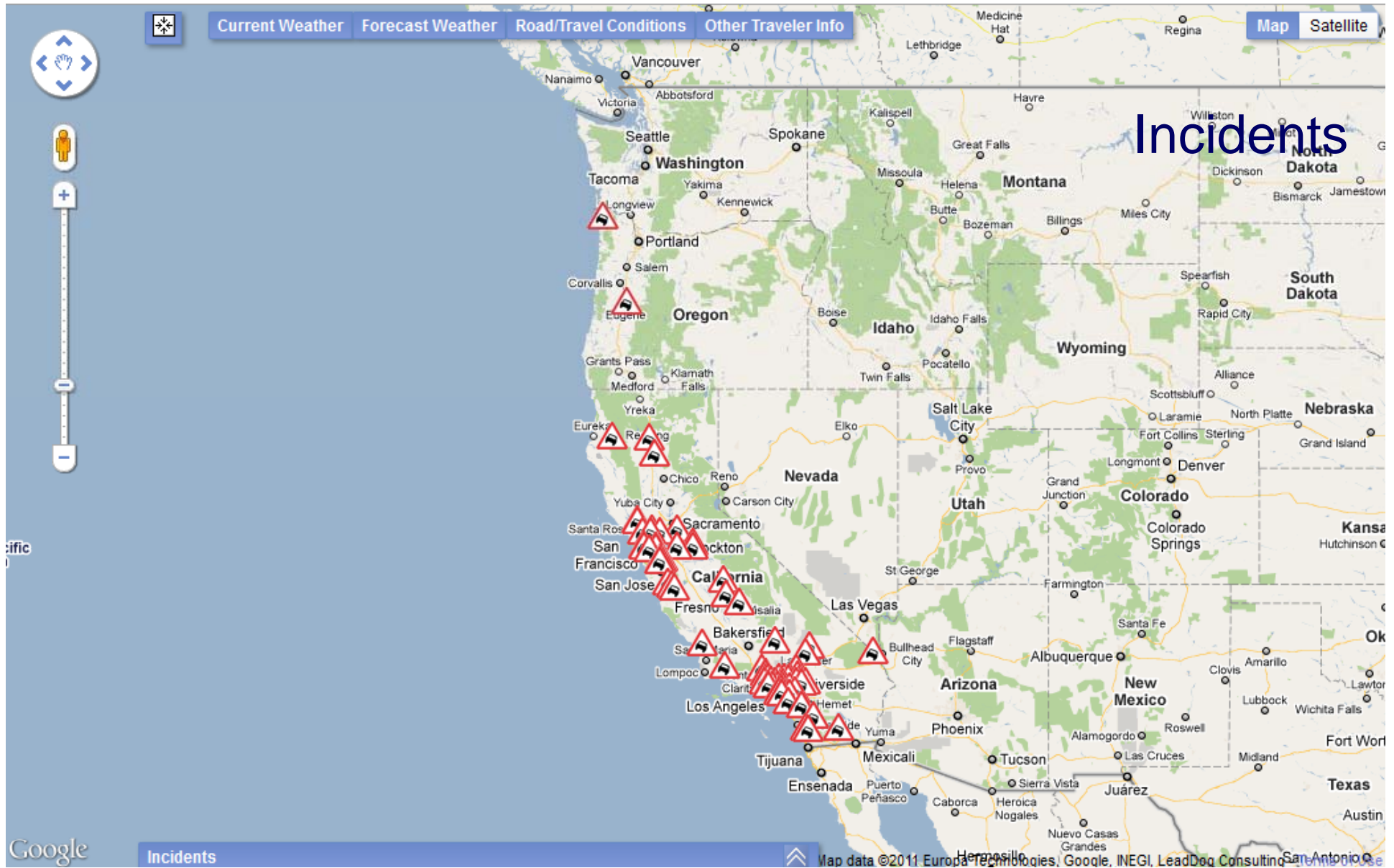
Route: US97

Milepost: 68.9

Severity: Informational only

Description: Cow Canyon Rest Area closed for construction 3/7/11 through 6/25/11.

Advice:



NB I5 JSO NORTH ST ON OFF RAMP

Time: 7:29 AM MDT - Thu, Jun 9 2011

Detail:

8:29AM : 1039 PREMIER
7:15AM : VEH ENTERED SVS //FCN/5431116000994 //TC
6:57AM : 1039 CALTRANS
6:57AM : INFO FOR CALTRANS: APX 10 OF GUARDRAIL DAMAGE / END OF GUA
6:54AM : A/C HAS 15 MIN ETA
6:47AM : 1039 SHASCOM / WILL INQ W/ SGT AND ADVISE
6:46AM : PLS ROLL A/C FOR 1 PUPPY/ BOTH OCCUPANTS WILL BE TRANSPORTI
6:38AM : 1039 PREMIER TOW
6:38AM : ROLL 1185
6:31AM : VEH IN DITCH ON E/SIDE OF RDWY
6:31AM : 1039 SHA CALFIRE
6:30AM : 1039 SHASCOM
6:30AM : JUST SAW SMOKE AND PEOPLE RUNNING ALSO SAW SKID MARKS
6:29AM : SOLO VEH OFF THE RD

NB SR99 AT PAIGE AV

Time: 10:33 AM MDT - Thu, Jun 9 2011

Detail:

9:33AM : WHI BIG RIG, WITH LG LOAD
9:33AM : BIG RIG HAULING LANDSCAPING ROCK, IS TILTED OVER TO 1 SIDE READY TO FALL

NECANICUM

Time: 12:43 PM MDT - Mon, May 23 2011

Route: ORE53

Milepost: 11.25

Type: Crash/Hazard

Severity: Estimated delay under 20 minutes

Detail:

The road surface has collapsed, use caution.
Advice:

WB I10 AT SR177

Time: 11:02 AM MDT - Thu, Jun 9 2011

Detail:

10:02AM : ETA TO OPEN, 1400
10:02AM : AND OFR
10:02AM : CT HAS ONR CLOSED
10:03AM : CHP Unit On Scene

PACIFIC

Time: 5:46 PM MDT - Wed, Jun 8 2011

Route: I-5

Milepost: 175.4

Type: Crash/Hazard

Severity: Estimated delay under 20 minutes

Detail:

A crash has occurred, use caution.

Advice:

SR14 AT CALIFORNIA CITY BLVD

Time: 10:30 AM MDT - Thu, Jun 9 2011

Detail:

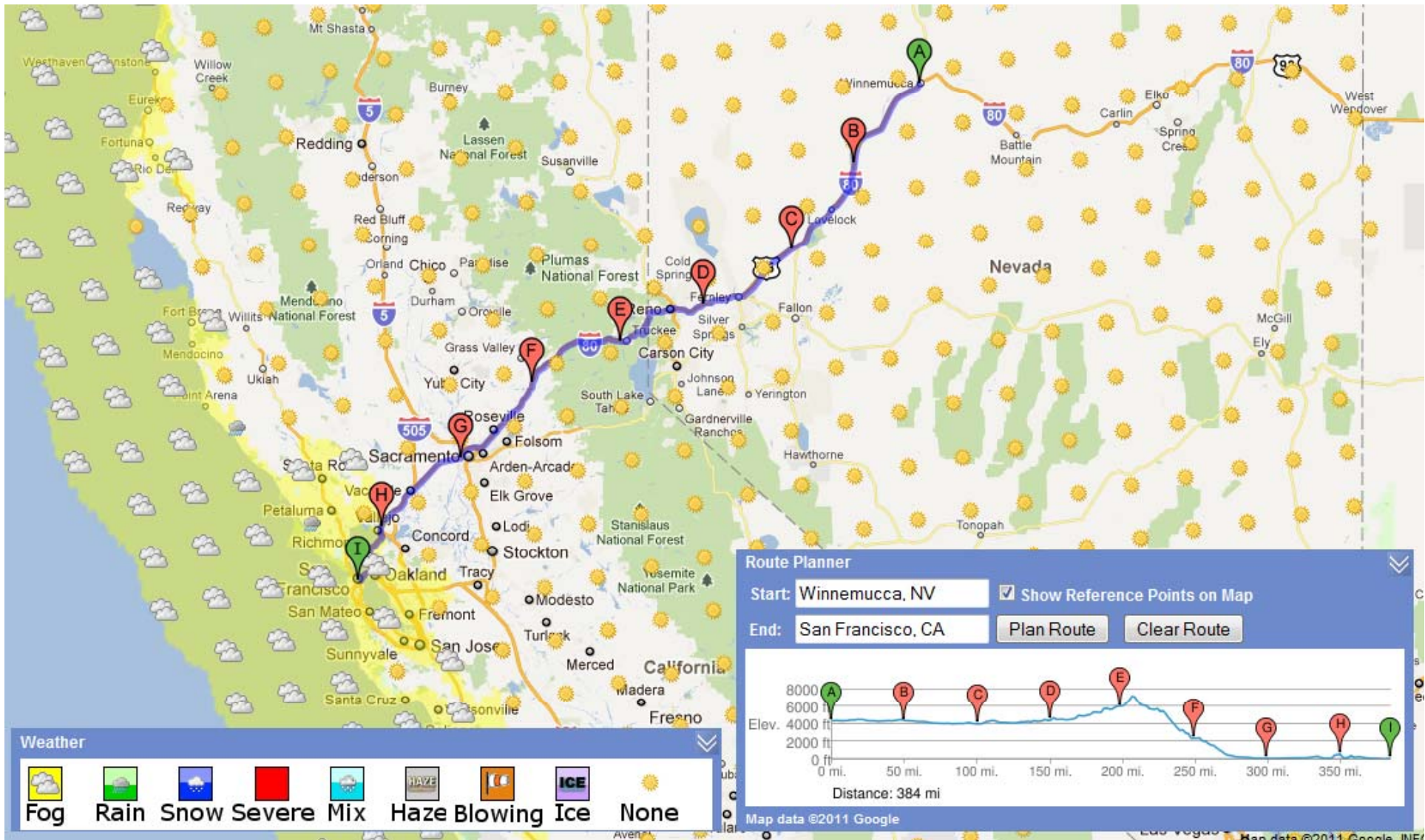
9:32AM : 59-1 WILL CHECK LOG 457 FIRST THEN THIS LOG
9:30AM : GOAT OR A SHEEP WALKING IN THE RDWY
9:41AM : CHP Unit Assigned

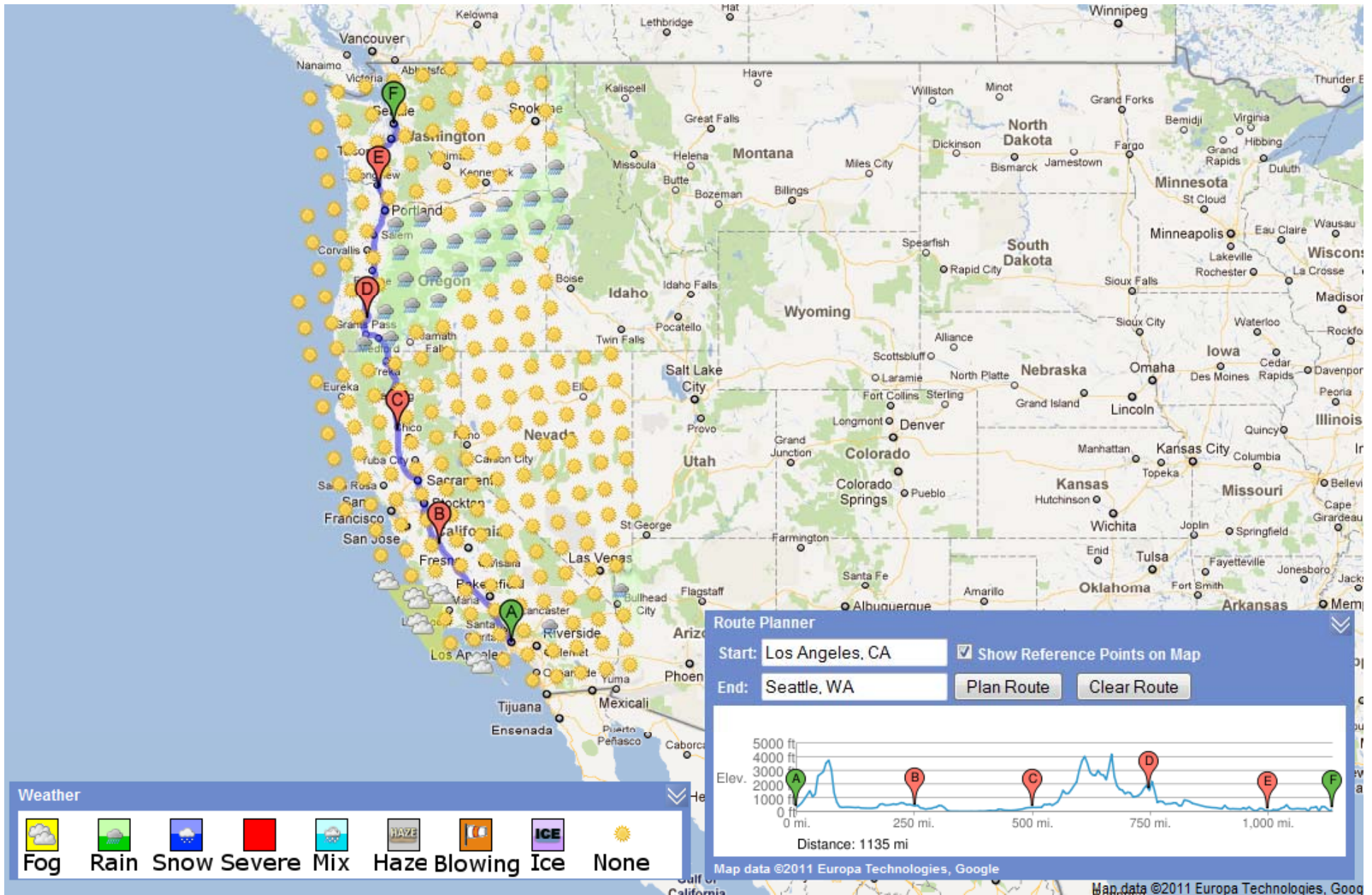
SB I5 JNO CAMINO CAPISTRANO

Time: 9:39 AM MDT - Thu, Jun 9 2011

Detail:

8:55AM : ALL LANES WILL BE OPEN SHORTLY
8:55AM : PER 57, FSP CLEARING EVERYTHING TO THE RS
8:53AM : 1039 S&K
8:51AM : #4 IS BLOCKED
8:50AM : FSP 97 W/ BLK TOYT PK - JNO CAM CAP - FIRE 97
8:44AM : PART BLKG SLOW LN
8:41AM : 1039 STA 91
8:39AM : VEH INTO RS RAILING , BLEW A TIRE
8:50AM : CHP Unit On Scene
8:56AM : CHP Unit On Scene





Route Planner

Start: Show Reference Points on Map

End:

Elev. 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, 0 ft

0 mi., 250 mi., 500 mi., 750 mi., 1,000 mi.

Distance: 1135 mi

Map data ©2011 Europa Technologies, Google

Western States OSS Demonstration



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Western States OSS

- Evaluation conclusions
 - Website examined by a number of users
 - Visits and surveys from all WSRTC states
 - Well received based on survey feedback
 - Useful insights obtained for future improvements/updates
 - Analytics data show that both weather and traveler information was of interest
 - Still need feedback from goods movement and law enforcement users



Tasks and Deliverables

Contract Start = 9/24/2010

Actual Start = 11/1/2010

End=9/23/2011

	project month	1	2	3	4	5	6	7	8	9	10	11	12
System Concept													
• Concept Report		D✓											
Requirements													
• Technical Memorandum – Requirements			D✓										
Design and Development													
• Technical Memorandum – System Design					D✓								
• Technical Memorandum – System Documentation									D				
• Completed System									D✓				
• User Guide									D✓				
Evaluation/User Survey													
• Survey Instrument										D✓			
• Final Report											D	↩	D

Duration = 12 months

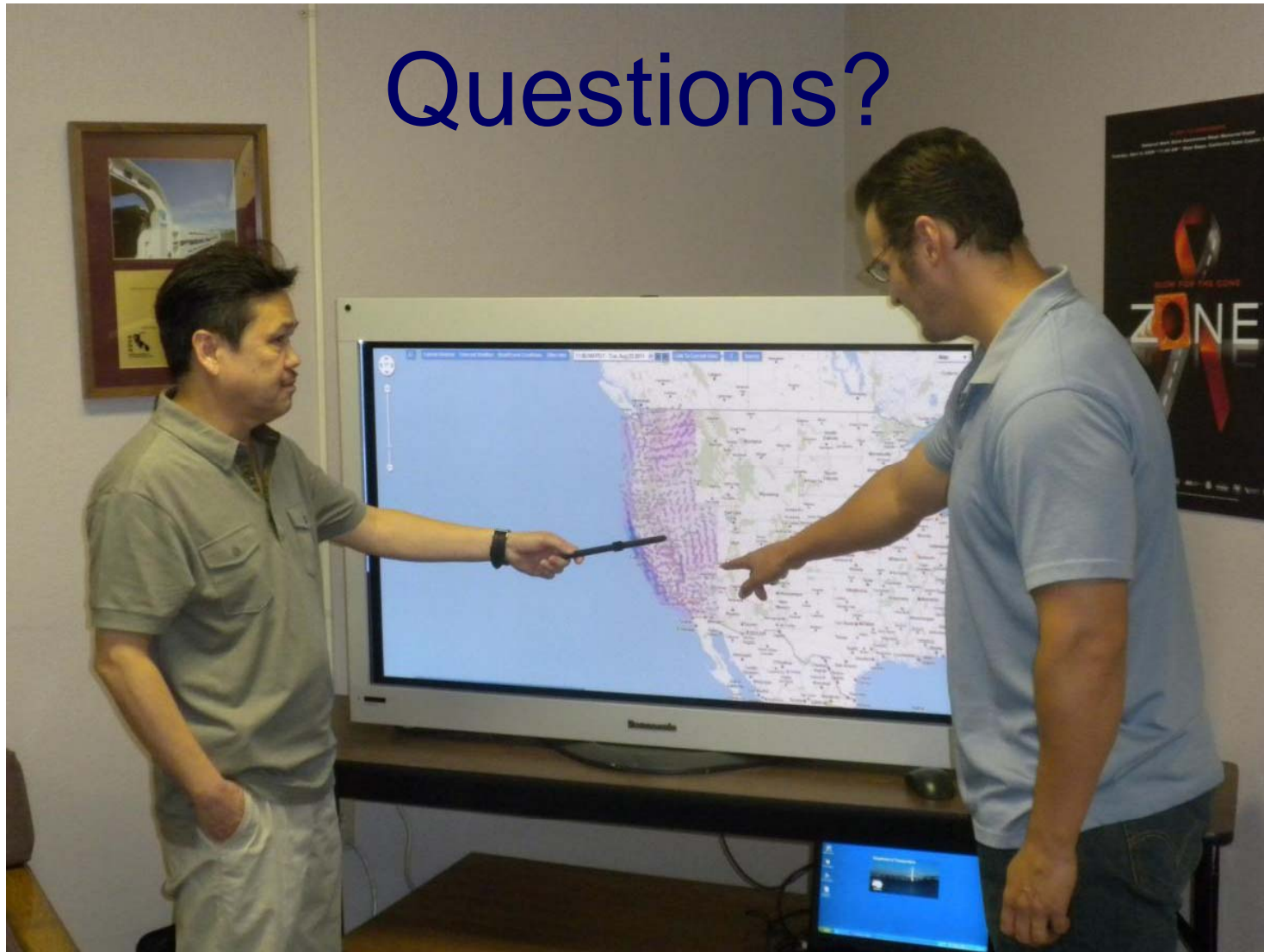
Amount of Award = \$79,995

Western States OSS Phase 2

- Caltrans (\$150,000) and WTI (\$50,000) funded via WSRTC
- To start in late 2011
- Prepare the system for wider use



Questions?



<http://clarusoss.weathershare.org>