

Appendix 15. Tabulated Observations and Photographs of Ground Deformation Produced by the M_w 6.0 South Napa Earthquake of August 24, 2014—Pavement Cracks South of the Soda Creek Fault, Napa, California

Introduction

The following pages contain maps and tables of descriptions, slip measurements, and photographs of ground deformation features obtained in the field at observation stations located in region V. Station locations are shown as circles in figure 15.1 and labeled by the Station ID number. To aid in locating a specific observation station, IDs increase numerically from south to north. Where multiple observations occur at the exact same locality, IDs are shown as a range (for example, 200–202 identifies stations 200, 201, and 202 all at the same location). Where stations are too closely spaced to be individually labeled in the figures, a single label is used for a group of stations, with the IDs or groups of IDs listed in a vertical column and the label leader pointing to the approximate midpoint of the group of closely spaced stations. Mappable fault rupture and surface deformation features are symbolized on the included maps as described in appendix 1.

Observations and (or) photographs collected at each station are tabulated by Station ID. Where stations occur at the same locality, earlier observations are listed first. Photographs taken at an observation station, if any, follow the station attribute information; high resolution images can be downloaded by clicking on the associated links. Station and photograph attributes are described in detail in appendix 1.

Region V

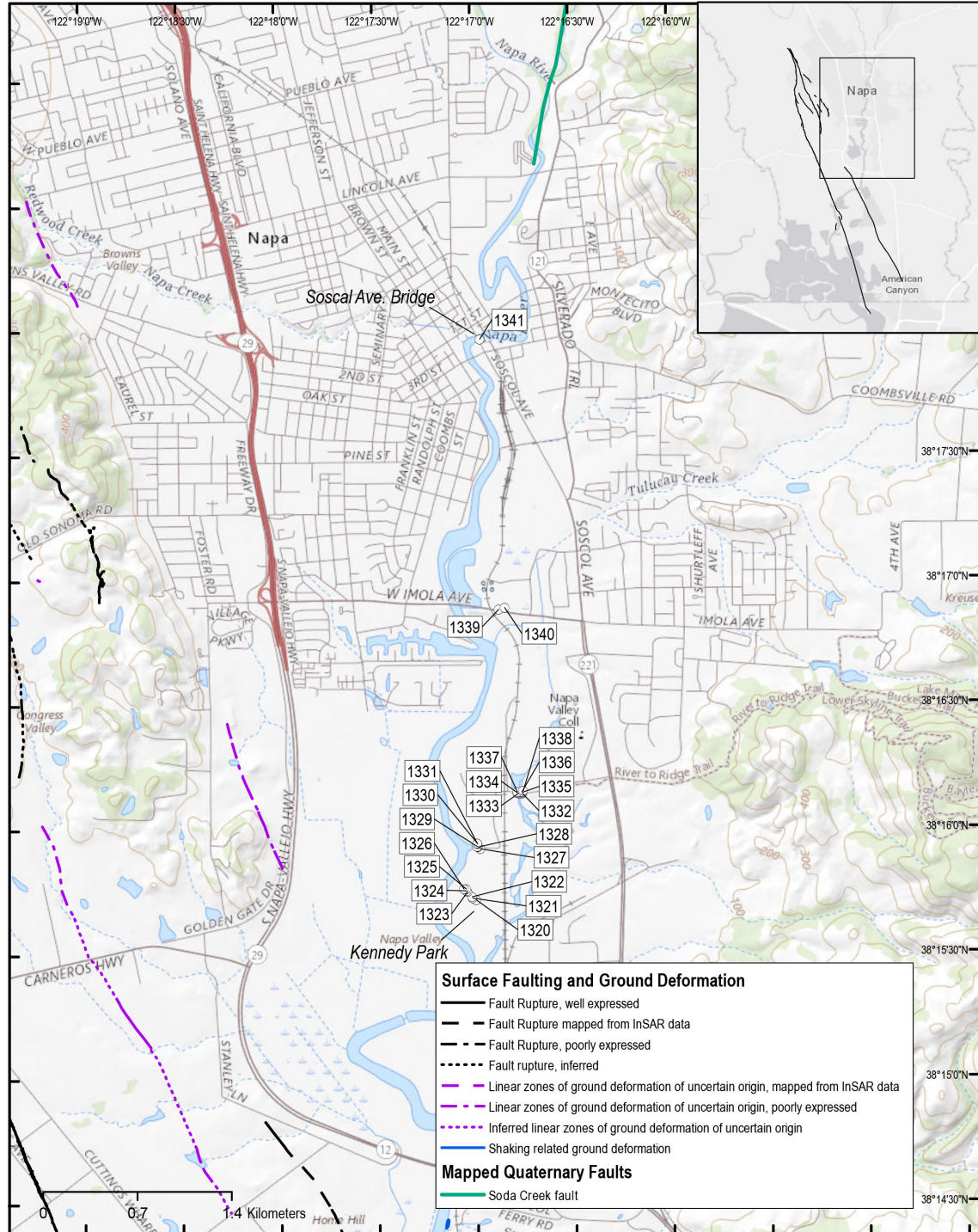


Figure 15.1. Ground deformation map showing locations of observation stations 1320–1341 in Region V of the West Napa Fault System, California, from Rocktram 4.3 km north to 3rd Street Bridge in Napa. Inset shows location of fig. 15.1 relative to full extent of rupture. Shaded relief base from U.S. Geological Survey National Map <https://viewer.nationalmap.gov/advanced-viewer/>; Soda Creek Fault trace from U.S. Geological Survey and California Geological Survey (2006).

Station ID: 1320				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26193	122.28332	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26191	122.28326	2014:08:27 17:34:38	

[High Resolution Photograph](#)

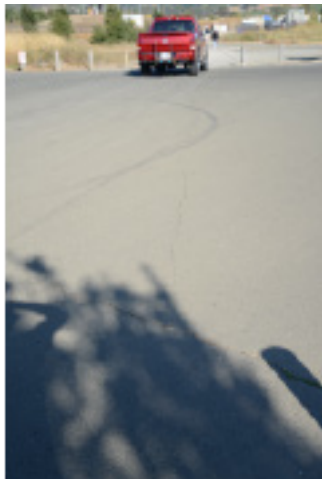


Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26196	122.28336	2014:08:27 17:35:01	

[High Resolution Photograph](#)



Station ID: 1320			Observer: Hudnut
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26196	122.28338	2014:08:27 17:35:06
High Resolution Photograph			
			

Station ID: 1321				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26203	122.28364	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26200	122.28359	2014:08:27 17:35:31	
High Resolution Photograph				
				

Station ID: 1321	Observer: Hudnut
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Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26202	122.28363	2014:08:27 17:35:50

[High Resolution Photograph](#)



Station ID: 1322	Observer: Hudnut
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Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26213	122.28367	Soil	Uncertain

Description

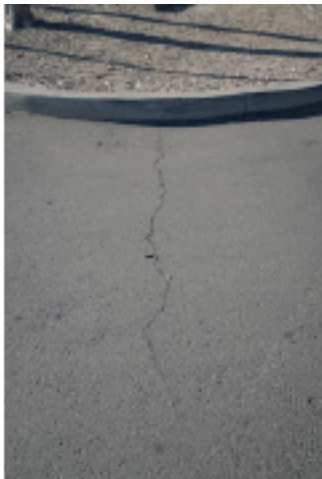
Fracture in gravel.

Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26212	122.28364	2014:08:27 17:38:09

[High Resolution Photograph](#)



Station ID: 1322			Observer: Hudnut
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26215	122.28365	2014:08:27 17:38:18
High Resolution Photograph			
			

Station ID: 1323				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26247	122.28406	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26244	122.28403	2014:08:27 17:44:01	
High Resolution Photograph				
				

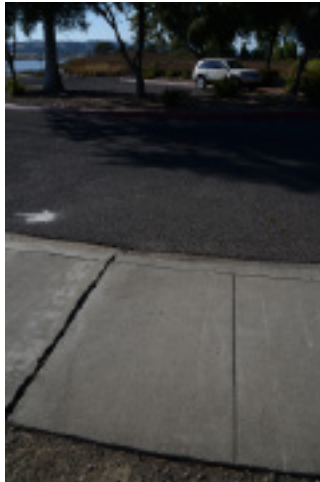
Station ID: 1324				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26252	122.28412	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26255	122.28411	2014:08:27 17:44:29	
High Resolution Photograph				
				

Station ID: 1325				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26264	122.28418	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26260	122.28413	2014:08:27 17:44:41	
High Resolution Photograph				
				

Station ID: 1326				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26266	122.28435	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26262	122.28431	2014:08:27 17:45:17	
High Resolution Photograph				
				

Station ID: 1327				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26533	122.28296	Curb/Sidewalk	Uncertain
Description				
Expansion in sidewalk.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26530	122.28291	2014:08:27 17:23:40	

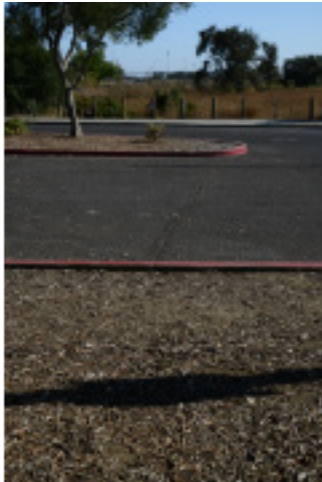
[High Resolution Photograph](#)



Station ID: 1328				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26544	122.28312	Curb/Sidewalk	Uncertain
Description				
Curb offset.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26535	122.28309	2014:08:27 17:23:03	

[High Resolution Photograph](#)



Station ID: 1329				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26547	122.28323	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26557	122.28323	2014:08:27 17:22:25	
High Resolution Photograph				
				

Station ID: 1330				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26566	122.28319	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26567	122.28316	2014:08:27 17:21:25	

[High Resolution Photograph](#)



Station ID: 1331				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26570	122.28323	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26589	122.28338	2014:08:27 17:21:07	

[High Resolution Photograph](#)



Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26579	122.28331	2014:08:27 17:21:09	

[High Resolution Photograph](#)



Station ID: 1332				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26902	122.27937	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26897	122.27932	2014:08:27 17:55:02	

[High Resolution Photograph](#)



Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26898	122.27933	2014:08:27 17:55:07	

[High Resolution Photograph](#)



Station ID: 1332	Observer: Hudnut
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Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26899	122.27932	2014:08:27 17:55:09

[High Resolution Photograph](#)



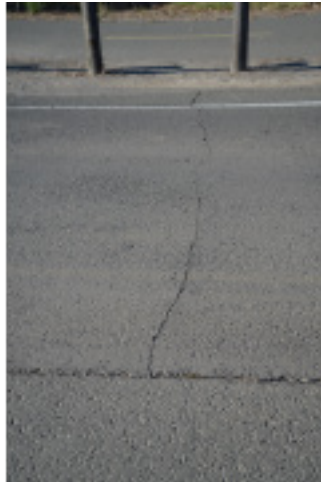
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26902	122.27937	2014:08:27 17:58:58

[High Resolution Photograph](#)



Station ID: 1333				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26904	122.27968	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26900	122.27966	2014:08:27 17:58:24	

[High Resolution Photograph](#)



Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26900	122.27947	2014:08:27 17:58:46	

[High Resolution Photograph](#)



Station ID: 1334				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26907	122.27980	Pavement	Uncertain
Description				
Fracture in pavement.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26913	122.27976	2014:08:27 17:57:53	

[High Resolution Photograph](#)



Station ID: 1335				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26907	122.27936	Soil	Uncertain
Description				
Fracture in gravel.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26905	122.27934	2014:08:27 17:55:21	

[High Resolution Photograph](#)



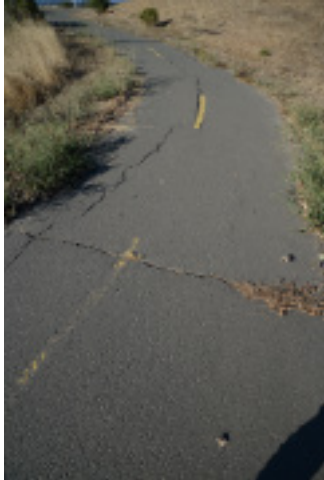
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26906	122.27937	2014:08:27 17:55:56	

[High Resolution Photograph](#)



Station ID: 1335			Observer: Hudnut
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26909	122.27937	2014:08:27 17:56:13
High Resolution Photograph			
			

Station ID: 1336				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26911	122.27938	Pavement	Uncertain
Description				
Fracture in pavement; extends to dirt.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26910	122.27937	2014:08:27 17:56:16	
High Resolution Photograph				
				

Station ID: 1336			Observer: Hudnut
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26912	122.27936	2014:08:27 17:56:27
High Resolution Photograph			
			

Station ID: 1337			Observer: Hudnut	
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26911	122.27978	Pavement	Uncertain
Description				
Fracture crossing paved path; extensional.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26918	122.27977	2014:08:27 17:57:37	
High Resolution Photograph				
				

Station ID: 1337			Observer: Hudnut
Photographer	Camera Coordinates		Photograph Date
Hudnut	38.26914	122.27976	2014:08:27 17:57:47
High Resolution Photograph			
			

Station ID: 1338				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.26919	122.27929	Pavement	Uncertain
Description				
Fractures across and along paved path.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.26926	122.27928	2014:08:27 17:56:46	
High Resolution Photograph				
				

Station ID: 1339				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.28132	122.28124	Pavement	Uncertain
Description				
Extensional feature in elevated road/highway. Crack in abutment of bridge along InSAR line; slab of concrete spalled off north side of bridge.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.28139	122.28126	2014:08:27 18:21:16	

[High Resolution Photograph](#)



Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.28139	122.28126	2014:08:27 18:21:18	

[High Resolution Photograph](#)



Station ID: 1339	Observer: Hudnut
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Photographer	Camera Coordinates		Photograph Date
Hudnut	38.28133	122.28127	2014:08:27 18:21:33

[High Resolution Photograph](#)



Photographer	Camera Coordinates		Photograph Date
Hudnut	38.28133	122.28128	2014:08:27 18:21:39

[High Resolution Photograph](#)



Station ID: 1340				Observer: Hudnut
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin
2014:08:27	38.28143	122.28073	Curb/Sidewalk	Uncertain
Description				
Crack in curb at parking lot.				
Photographer	Camera Coordinates		Photograph Date	
Hudnut	38.28146	122.28076	2014:08:27 18:23:07	
High Resolution Photograph				
				

Station ID: 1341				Observer: Hudnut		
Observation Date	Latitude	Longitude	Offset Feature	Inferred Origin		
2014:08:28	38.29938	122.28271	Curb/Sidewalk	Uncertain		
Description						
Uplifted sidewalk. Bridge damage on south abutment along Soscol Ave.; along InSAR lineament. Compression consistent with clockwise rotation of bridge deck in right-lateral shear.						
Fault Azimuth	Strike Slip	Strike-slip Sense	Extension	Compression	Vertical	Upthrown Side
RL						
Photographer	Camera Coordinates		Photograph Date			
Hudnut	38.29933	122.28268	2014:08:28 20:05:28			
High Resolution Photograph						
						