

# Thule Scientific

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## Field Guide to the San Andreas Fault News and Updates

March 8, 2011

Always check <http://www.thulescientific.com/updates.html> for the latest news.

### Chapter 1

On Page 1 and then again on page 2, I mistakenly stated that the fault goes through Ventura County. It does not. (July 26, 2007) - Corrected in the 2nd printing.

### Chapter 3

Page 21, typo in 3rd paragraph in right hand column, last sentence: replace "about 32 million times" with "about 32 billion times". (July 28, 2007 - Thanks to Don Nicholson) - Corrected in the 2nd printing.

### Chapter 5

Page 41 typo: in paragraph beginning "Two good examples...". "Trip 8" should read "Trip 9". (March 6, 2011 - Thanks to Roger Kobayashi).

### Trip 1 Salton Trough

The mud pots and mud volcanoes at the corner of Davis and Schrimpf Roads (p. 62 & 64) are on private property. If you visit them, be respectful. Do NOT drive into the field, do NOT litter and do NOT touch the pots and volcanoes. If you see any trash, pick it up. (March 15, 2007)

### Trip 2 San Geronio Pass

Page 85. The road log for the White Water Canyon side trip was mistakenly omitted from the book. It is attached below or you can download it from.

<http://www.thulescientific.com/updates.html>

(Thanks to Virgil Talbott for drawing this error to my attention, March 7, 2011.)

### Trip 3 San Gabriel Mountains

The latitude of the beginning of the side trip to Punchbowl Park at the junction of Pallett Creek Rd (not Pallet) and Longview Rd is at 34 27.420, not 34 37.420 as the route log says on p. 96. (March 26, 2007 - Thanks to Ben Bentkowski)

Gouge Trail Side Trip - The start of the trip is a small, awkward pullout on eastbound Big Pines Highway at (34 22.954 117 42.006 6567 ft). A better starting location - especially if several cars are involved - is the Appletree Campground parking area a short distance west (34 23.211 117 42.806). Park and proceed on foot east on a good graded road at the east end of the parking area just south of the paved road and walk about 1/4 mile to where an obvious bulldozed berm ends at a steep, deep drop off. Jog right (S) up and around the canyon and follow the foot path to the indicated GPS locations (p. 95). (May 12, 2007 - Thanks to Janet Gordon.)

### Trip 6 Carrizo Plain

This slight reroute near the end of the trip will take you across the fault about 6 more times while adding 0.7 miles to the trip. And well worth it!

**0.0** Jct. Elkhorn Rd and Simmler Soda Lake San Diego Crk Rd. (35 17.001 119 50.404 2275 ft). Continue NW on Elkhorn Rd.

**0.9** 0.9 Jct. Elkhorn Rd and unsigned Auberry Rd (35 17.616 119 50.963). Turn left (SW) on Auberry Rd and cross fault, then immediately swing right (W) on Arrowbear Trail."

**1.2** 0.3 Jct. Arrowbear Trail and Antler Rd. (35 17.575 119 51.238). Right (N) on Antler Rd. Ascend scarp/pressure ridge.

**1.5** 0.3 Jct. Antler Rd and Annapolis Trail (35 17.787 119 51.240). Fault 50 ft NE. Turn left (W) on Annapolis Trail and descend scarp almost to the bottom.

**1.6** 0.1 Jct. Annapolis Trail and unnamed road (35 17.791 119 51.371). Ascend scarp and cross fault.

**1.9** 0.3 Jct. unnamed road and unsigned Airlight Trail (35 18.005 119 51.374). Turn left (W) on Airlight Trail, immediately cross fault then descend scarp."

**2.1** 0.2 Jct. unsigned Airlight Trail and Alma Rd (35 18.010 119 51.510). Turn right (N) on Alma Rd. Ascend scarp and cross fault in shallow valley extending NW-SE that shows enhanced vegetation.

**2.6** 0.5 Jct. Alma Rd and Belmont Trail (35 18.433 119 51.504). Left (W) on Belmont Trail. Cross fault near Amber Rd. Nice view of valley along scarp to NW where fault crosses 7 Mile Rd near utility sheds 1/2 mile NW.

**3.1** 0.5 Jct. Belmont Trail and 7 Mile Rd (35 18.439 119 52.183). Hard right (NE) on 7 Mile Rd (pavement begins). Cross fault along NE base of scarp near utility sheds.

**3.7** 0.6 Jct. 7 Mile Rd and Alhambra Rd. Turn left (NW) on dirt Alhambra Rd (35 18.836 119 51.717) then immediately swing left (W) on Avery Trail and ascend scarp.

**4.1** 0.4 Jct. Avery Trail and unsigned Albany Rd (35 18.879 119.52.225). Fault 50-100 ft west. Turn right (N) on Albany Rd.

**4.2** 0.1 Jct. Albany Rd and unsigned Bagby Trail (35. 119. Turn left (W) on Bagby Trail then take next right (N) on Baker Rd. Take Baker Rd. north to CA-58.

**4.7** 0.5 Jct. Baker Rd and CA-58 (35 19.319 119 52.288). Pavement begins. Turn left (W) on CA-58 and rejoin route near mile 46.9 on the mail route (mile 47.1 on the alternate route) just before CA-58 swings hard right (NW).  
(July 17, 2007)

Please let us know what you find on your trip and we'll post it on the website.

## White Water Canyon Road Log (Trip 2)

**B**egin side trip by turning right (N) on White Water Canyon Rd. Drive to the Whitewater Trout Farm where the pavement ends. Then turn around and retrace your path to Whitewater Cut Off.

**miles** *delta*

- 0.0** Drive north on Whitewater Canyon Road. Exposed on either side of the canyon at road level are gray stratified Quaternary gravel deposits of the ancestral Whitewater River which were laid down between 0.5 - 0.75 My ago. Capping the bluffs is a rust-colored topsoil.
- 1.4** 1.4 Crest small hill and pull off right. Here we have a clear view of the Banning Fault's path across Whitewater Canyon. To the left (W) we see the contrast between the nearby light colored hill to the south composed of Cabazon Fanglomerate and the darker Coachella Fanglomerate just across the cleft to the north. The same scene can be seen on the east side of the canyon, though it is more complex owing to an exposure of the sheared rusty rocks of Painted Hill just south of the darker, domed mountain. There is also a good deal of reddish gouge to the right (E). Looking up the wash we see a thick stand of trees and brush in Bonnie Bell. This localized vegetation is on the fault and, as in Seven Palms Canyon and Indio Hills, is a sure sign of ground water damming by the fault. Also see obvious color contrast at Banning fault to the northwest.
- 1.5** 0.1 Enter Bonnie Bell. The Banning fault crosses the lumpy road at the dips and curves (33 56.705 116 38.529 1633 ft).
- 4.1** 2.6 Cross Whitewater River. Here we see banded gray and brown bedding showing rounded holes of cavernous erosion. The light gray gneissic cobbles and boulders in the wash with layers of greenish epidote contrast strongly with the surrounding hills. Most of them are diorite gneiss

eroded from many miles up-canyon.

- 4.7 0.6 Whitewater Trout Co. Turn around and retrace the route to Whitewater Cut Off. On the way down we have a magnificent view of the 10,000 ft San Jacinto escarpment, one of the highest and steepest in North America. Our line-of-site reaches south from the Transverse Ranges geomorphic province into the northern end of the Peninsular Ranges province. Those rocks across the canyon ahead have an entirely different origin than the ones we are drive through. As we approach Whitewater Cut Off, we see steep bluffs of the river, sand dunes at the foot of the San Jacinto escarpment, rows of wind generators and I-10. This is one of the most bizarre, dramatic sights on the trip.
- 9.4 4.7 Junction Whitewater Canyon Road and Whitewater Cutoff. Rejoin main route by turning right (W) on Whitewater Cut Off.

