

# Earth Fissure Map of Pinal County, Arizona

March 2011  
Arizona Geological Survey

## Digital Map Series - Earth Fissure Map 21 (DM-EF-21)

**NOTICE**  
THE STATE OF ARIZONA HAS MADE A REASONABLE EFFORT TO ENSURE THE ACCURACY OF THIS MAP WHEN IT WAS PRODUCED, BUT ERRORS MAY BE PRESENT AND THE STATE OF ARIZONA DOES NOT GUARANTEE ITS ACCURACY, THE MAP SUPPLEMENTS, AND IS NOT A SUBSTITUTE FOR, A PROFESSIONAL INSPECTION OF PROPERTY FOR DEFECTS AND CONDITIONS.

This is one of a series of earth fissure maps prepared by the Arizona Geological Survey ("AZGS") in accordance with Ariz. Rev. Stat. § 27-152.01(3). AZGS collected location information from previously conducted earth fissure studies, reviewed available remote-sensing aerial and satellite imagery, and conducted surface site investigations throughout the study area. A reasonable effort was made to identify all earth fissures in the study area. Nonetheless, some fissures may remain unmapped as a result of one or more of the following:  
1) existing fissures may have been masked by construction or agricultural activities;  
2) incipient fissures may lack clear surface expression;  
3) the surface expression of fissures changes constantly as new earth fissures develop and old earth fissures fill in.  
A blank area on the map does not guarantee earth fissures are not present. However, blank areas within the study area boundary have been investigated, and no surface evidence of fissures was found as of the date of map publication. Determining the presence or absence of a fissure at any specific site may require additional mapping and/or geotechnical analysis.

**For more detailed maps, see these other publications:**

Earth Fissure Map of the Chandler Heights Study Area: Pinal and Maricopa Counties, Arizona, August 2008, Arizona Geological Survey Digital Map Series - Earth Fissure Map 1 (DM-EF-1)

Earth Fissure Map of the Apache Junction Study Area: Pinal and Maricopa Counties, Arizona, April 2008, Arizona Geological Survey Digital Map Series - Earth Fissure Map 2 (DM-EF-2)

Earth Fissure Map of the Picacho Study Area: Pinal County, Arizona, February 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 3 (DM-EF-3)

Earth Fissure Map of the Toltec Buttes Study Area: Pinal County, Arizona, August 2008, Arizona Geological Survey Digital Map Series - Earth Fissure Map 6 (DM-EF-6)

Earth Fissure Map of the Pete's Corner Study Area: Pinal County, Arizona, November 2008, Arizona Geological Survey Digital Map Series - Earth Fissure Map 7 (DM-EF-7)

Earth Fissure Map of the Heaton Study Area: Pinal County, Arizona, February 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 9 (DM-EF-9)

Earth Fissure Map of the Tator Hills Study Area: Pinal County, Arizona, June 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 11 (DM-EF-11)

Earth Fissure Map of the Friendly Corners Study Area: Pinal County, Arizona, June 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 12 (DM-EF-12)

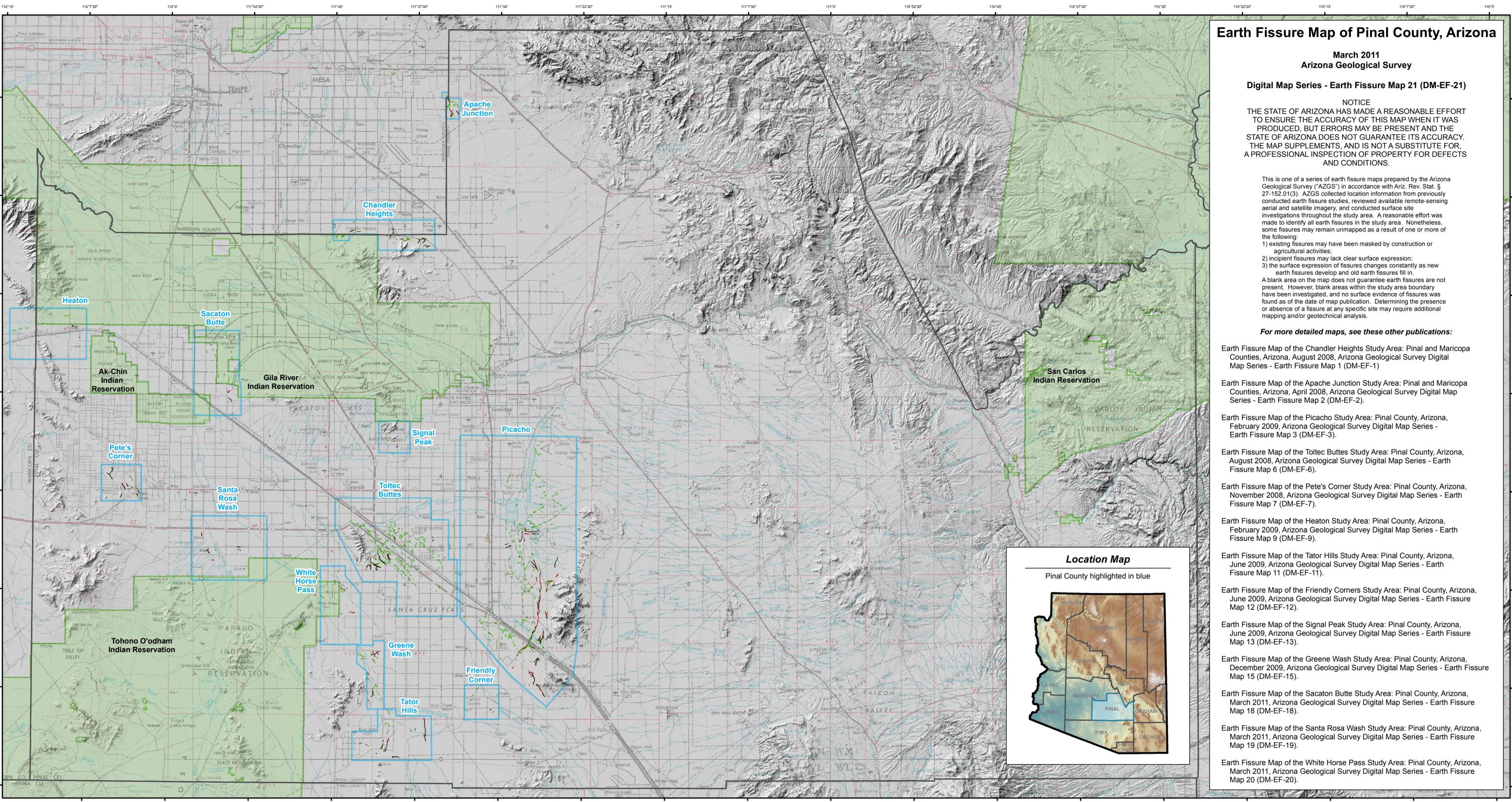
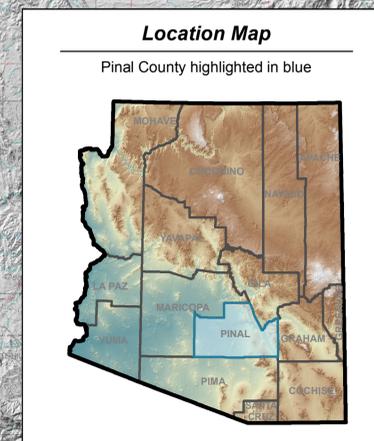
Earth Fissure Map of the Signal Peak Study Area: Pinal County, Arizona, June 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 13 (DM-EF-13)

Earth Fissure Map of the Greene Wash Study Area: Pinal County, Arizona, December 2009, Arizona Geological Survey Digital Map Series - Earth Fissure Map 15 (DM-EF-15)

Earth Fissure Map of the Sacaton Butte Study Area: Pinal County, Arizona, March 2011, Arizona Geological Survey Digital Map Series - Earth Fissure Map 18 (DM-EF-18)

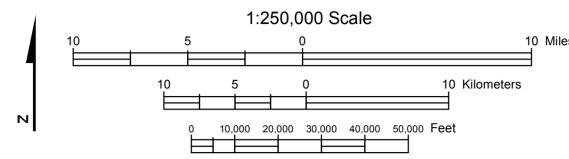
Earth Fissure Map of the Santa Rosa Wash Study Area: Pinal County, Arizona, March 2011, Arizona Geological Survey Digital Map Series - Earth Fissure Map 19 (DM-EF-19)

Earth Fissure Map of the White Horse Pass Study Area: Pinal County, Arizona, March 2011, Arizona Geological Survey Digital Map Series - Earth Fissure Map 20 (DM-EF-20)



MAP EXPLANATION	
	Solid black lines represent the location of continuous earth fissures manifested as open cracks or gullies.
	Solid red lines represent the location of discontinuous earth fissures manifested as elongated to circular depressions or as abbreviated or irregular linear depressions. These discontinuous surface features frequently represent an incipient surface expression of an earth fissure.
	Dashed green lines represent the approximate locations of unconfirmed earth fissures, defined as fissures which could not be confirmed by surface investigations by AZGS geologists, but which have been previously reported by Professional Geologists in published documents or maps.
	The outline of the Study Area is shown in blue. Historical and modern aerial photos taken within this area were searched for anomalous lineaments. These lineaments were then investigated in the field to determine if there was any evidence of earth fissures.

Shaded relief basemap produced from 10m NED Digital Elevation Model  
Topographic basemap from USGS 1:250,000-scale quadrangle series Originally published 1954, revised 1969  
Map projection: Universal Transverse Mercator, zone 12, North American Datum of 1983 HARN



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