Land Subsidence Rate in the Hawk Rock Area, Maricopa and Pinal Counties Based on Envisat Satellite Interferometric Synthetic Aperture Radar (InSAR) Data

Time Period of Analysis: 1.0 Years 02/11/2009 To 03/03/2010

Explanation
02/11/2009 To 03/03/2010
Land Subsidence Rate
- Decorrelation/No Data

- Greater 7 cm/yr (2.8 in/yr)
- 5 - 7 cm/yr (2.0 - 2.8 in/yr)
- 3 - 5 cm/yr (1.2 - 2.0 in/yr)
- 2 - 3 cm/yr (0.8 - 1.2 in/yr)
- 1 - 2 cm/yr (0.4 - 0.8 in/yr)
- 0.5 - 1 cm/yr (0.2 - 0.4 in/yr)
- 0 - 0.5 cm/yr (0 - 0.2 in/yr)

Subsidence Feature
- Hardrock
- Earth Fissures
- CAP Canal

Highways and Interstates
- Interstate
- US
- State
- Roads
- Railway

Decorrelation (white areas) are areas where the phase of the received satellite signal changed between satellite passes, causing the data to be unusable. This occurs in areas where the land surface has been disturbed (i.e. bodies of water, snow, agriculture areas, areas of development, etc).

Earth fissures were mapped by the Arizona Geological Survey. For information on earth fissures visit: www.azgs.az.gov/EFC

Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
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