Land Subsidence Rate in Western Metropolitan Phoenix, Maricopa County
Based on Envisat Satellite Interferometric Synthetic Aperture Radar (InSAR) Data

Time Period of Analysis: 2.0 Years 02/11/2008 To 02/15/2010

Explanation
02/11/2008 To 02/15/2010
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)

- Hardrock

- Earth Fissures

Highways and Interstates

- Interstate
- US
- State
- Roads

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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