Radar Remote Sensing of Subsidence in the Sacramento-San Joaquin Delta

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Identify Localized Deformation

1. Jersey Island, Blind Point Peninsula

NASA-CDWR Study: Application of Earth Science Methods to Subsidence & Levee Monitoring
- Uses NASA UAVSAR instrument for high resolution mapping
- ~60 acquisitions since July 2009
- Coverage of the entire Sacramento-San Joaquin Delta from multiple viewing angles
- Develop methods for measuring small deformations in a challenging area

Sherman Island Subsidence Rates, 2009-2014

South Napa Earthquake
Twitchell Island Subsidence

15-day interferogram, 14-Aug-2014 to 29-Aug-2014
(South Napa Earthquake occurred on 24-Aug-2014)

Related Work 1: South Bay Aqueduct
Geological Hazards

Related Work 2: California Aqueduct
Drought Impact

References:

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