InSAR Processing and Theory with GMTSAR: ALOS-1 Data

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Area of Interest: 2010 Mw 6.3 Salta Earthquake

- February 27, 2010 - 15 km depth
- Occurred ~12 hours after the Mw 8.8 Chile Earthquake, though unrelated
- ALOS acquisitions from February 24, 2010 and April 4, 2011
Unwrapping error
Learned Outcomes

- **SANPHU**
  - Increased *coherence* threshold from 0.12 to 0.15
  - Decreased *defomax* from 20 to 0

- Earthquake potentially too deep (15km) to be visualized in interferogram processed
  - Continue to play with parameters in example code to see if earthquake can be better identified

- Need to evaluate the InSAR uncertainty potentially due to orbital errors