RESULTS OF INTERFEROMETRIC PROCESSING

UNAVCO SHORTH COURSE 2017

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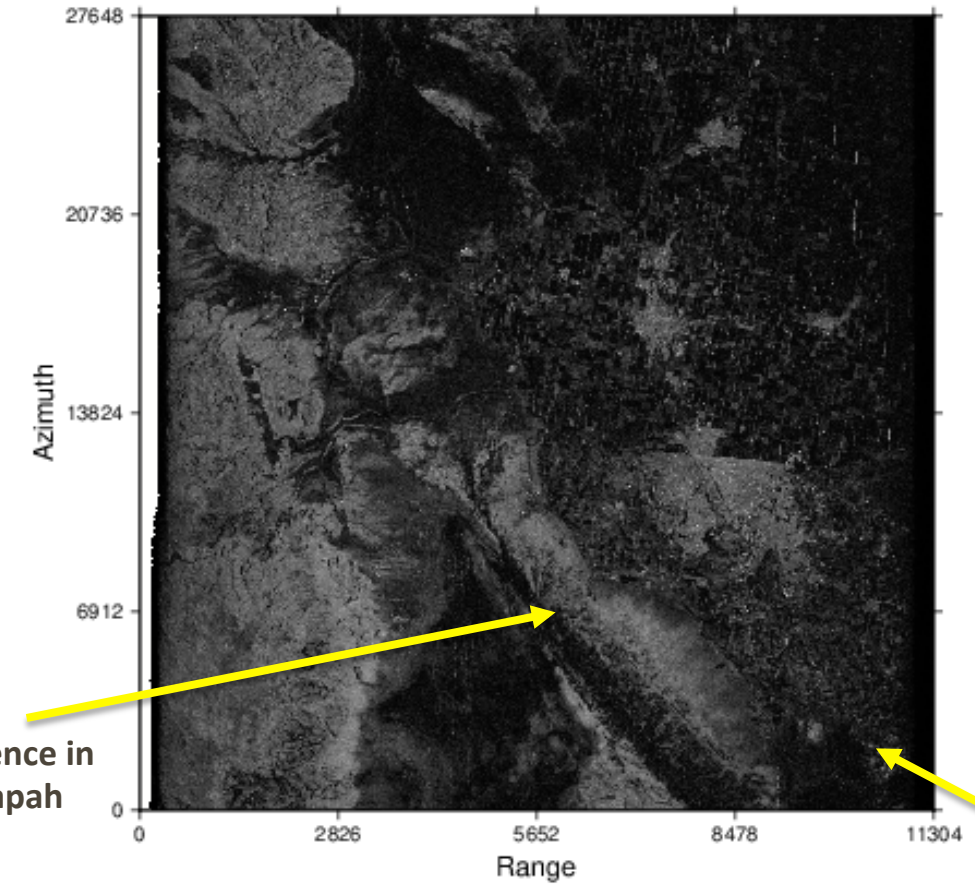
Introduction

The Mw=7.2, April 4, 2010, El Mayor-Cucapah earthquake occurred 30 km southeast of the city of Mexicali, Baja California, Mexico. The earthquake ruptured several previously mapped faults, as well as some unidentified ones, at the Sierra Cucapah and the Indiviso fault in the Mexicali Valley.

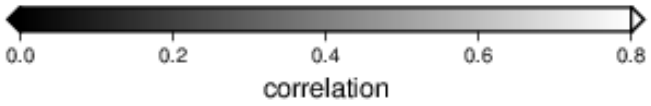
The Mayor-Cucapah earthquake caused desplacement up to 4m.

Coherence

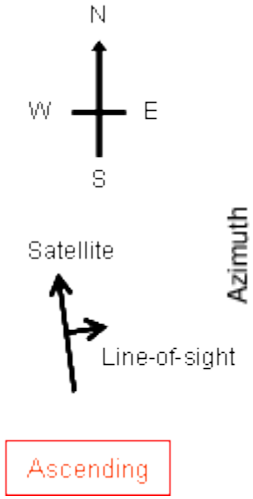


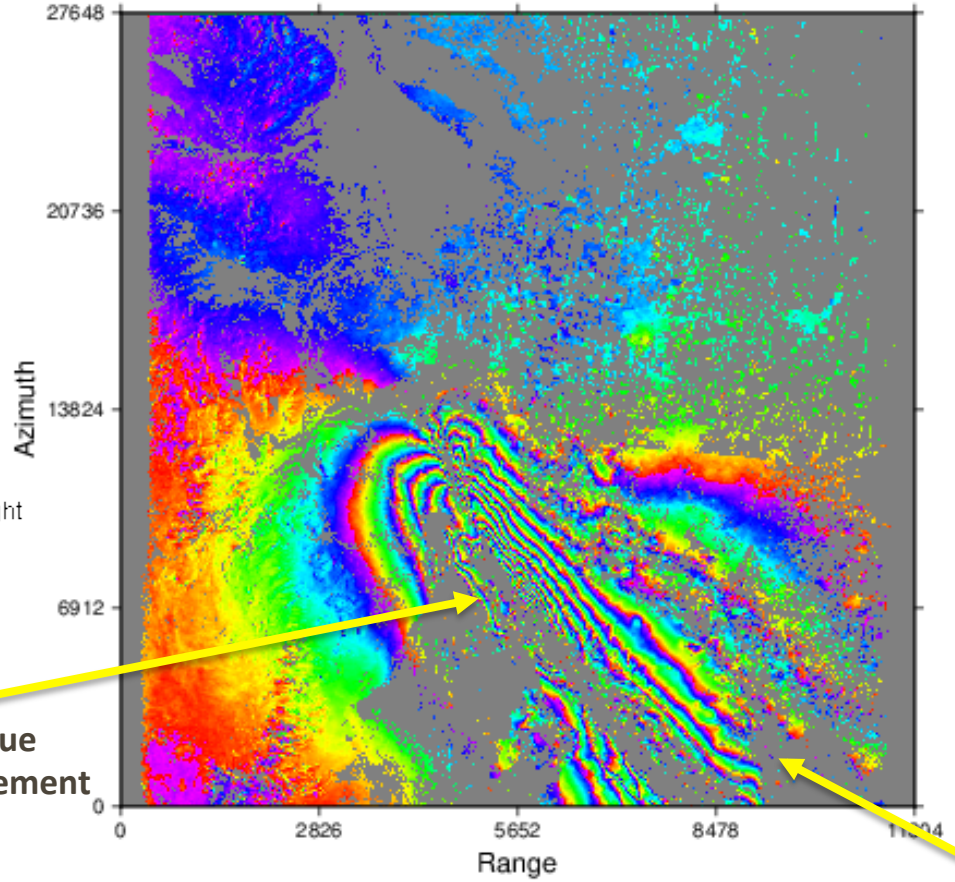
Low coherence in Sierra Cucapah

Low coherence in Mexicali Valley



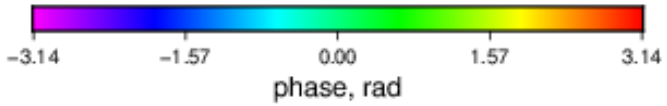
Phase Filtering



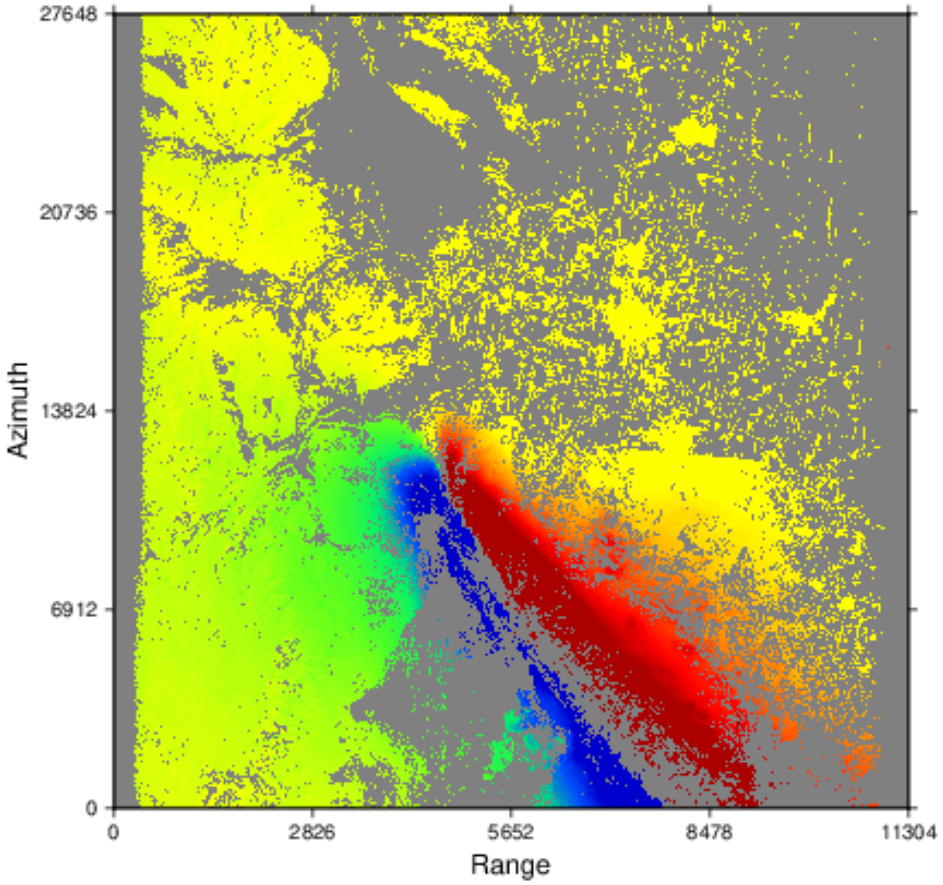


No data due vertical movement

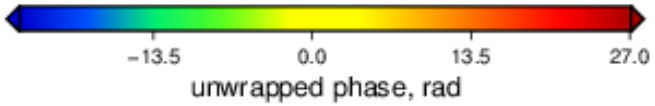
No data due liquefaction



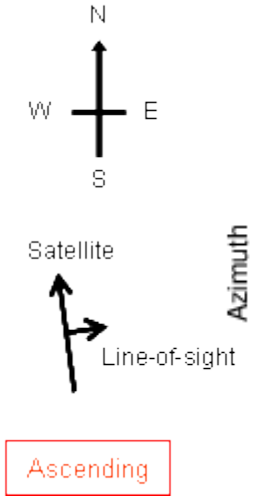
Unwrapping

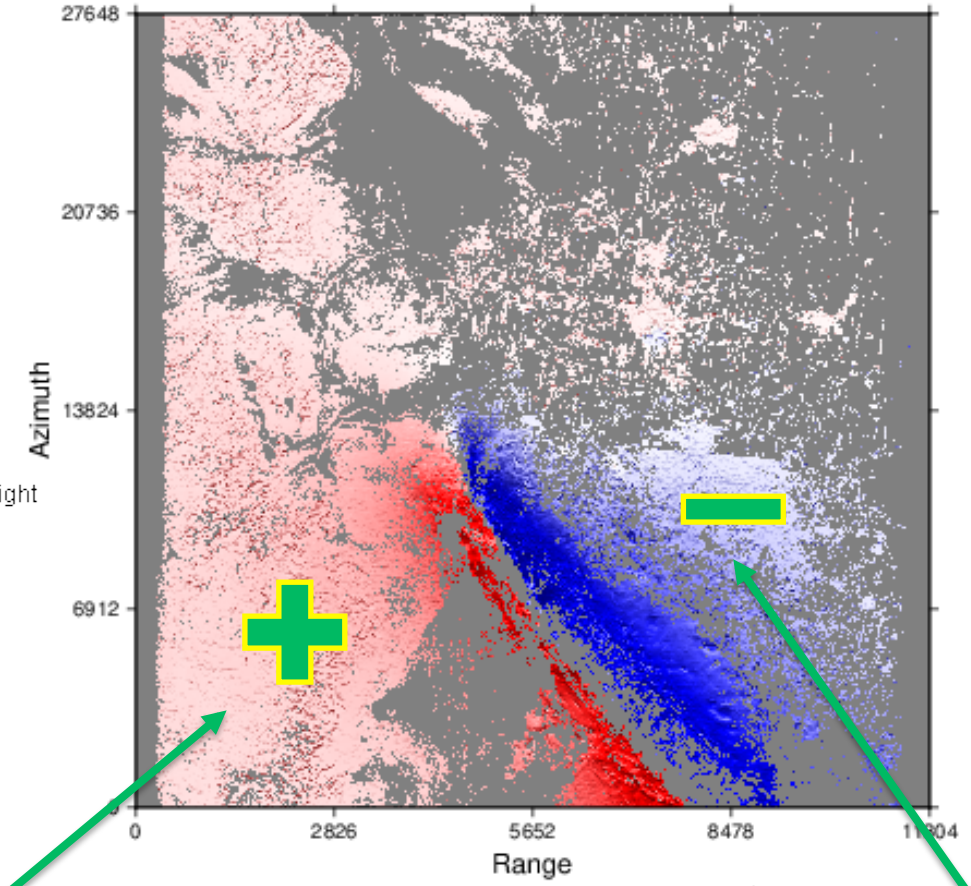


Displacement to the rigth



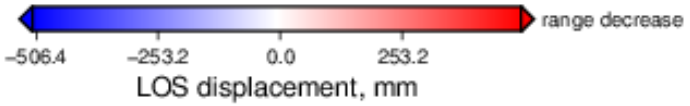
LOS Displacement



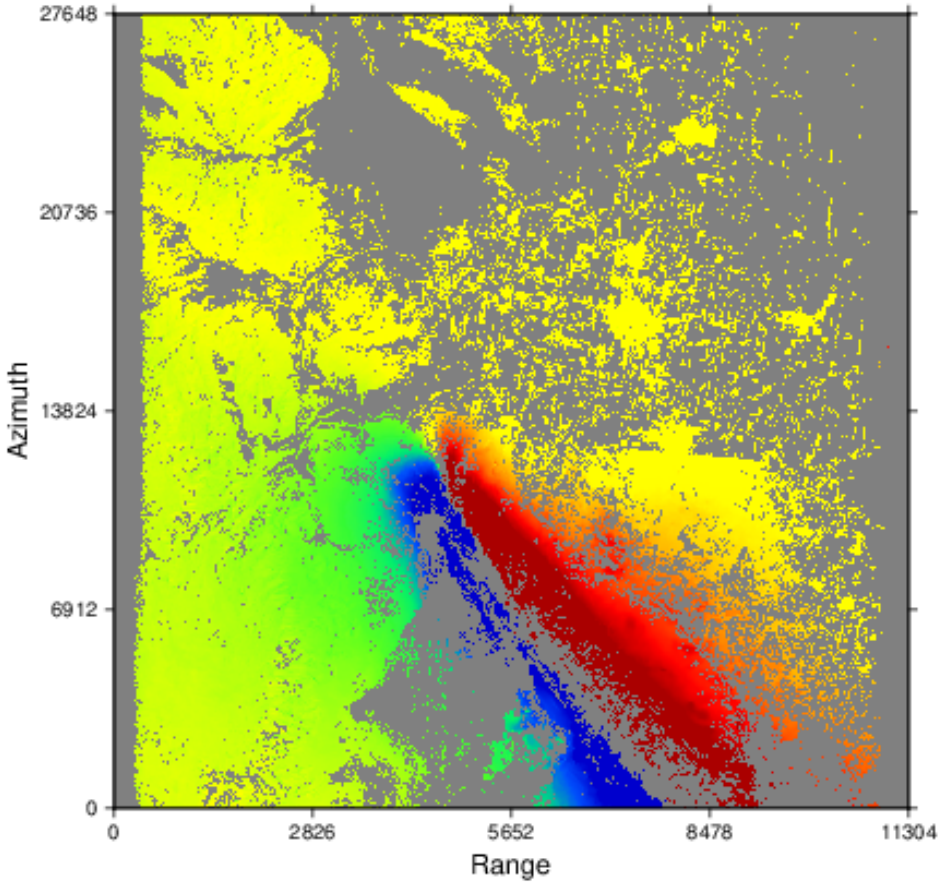


LOS Displacement is +
to the west of the break

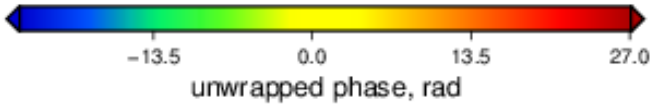
LOS Displacement is -
to the east of the break



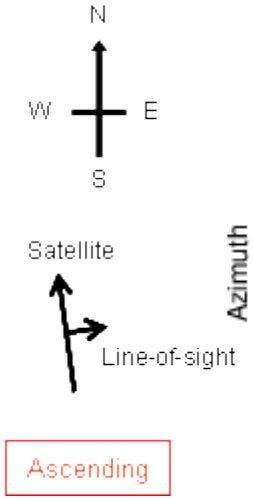
Unwrapping

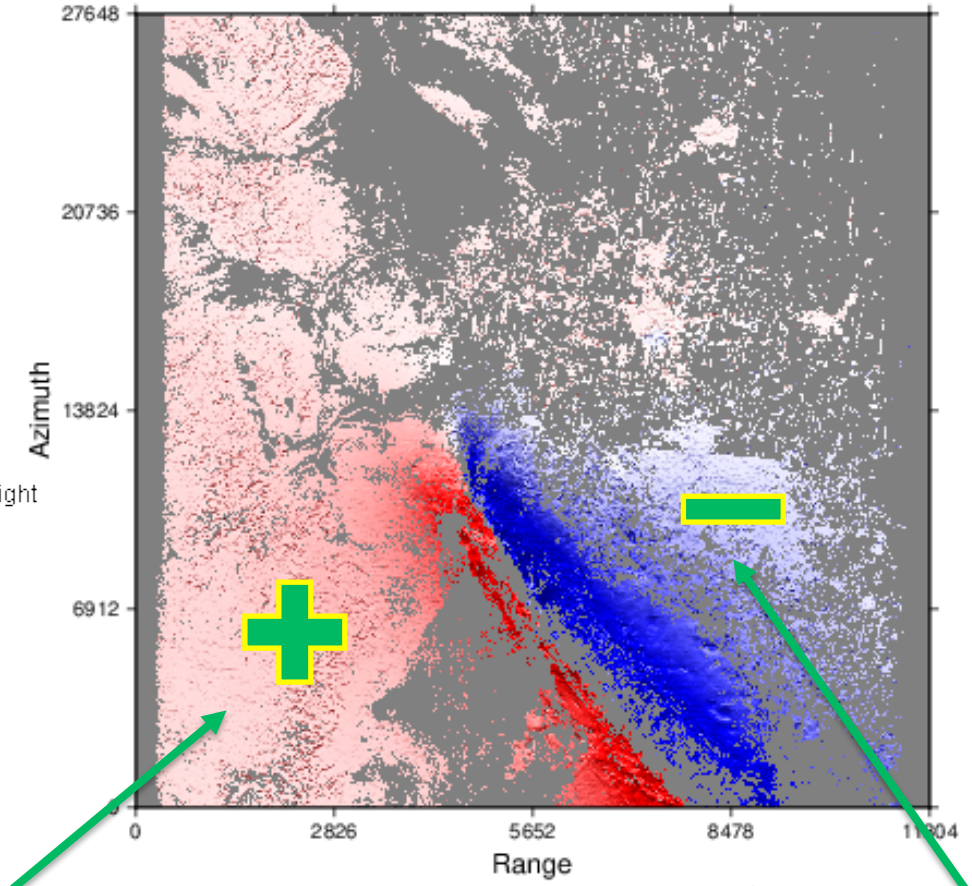


Displacement to the rigth



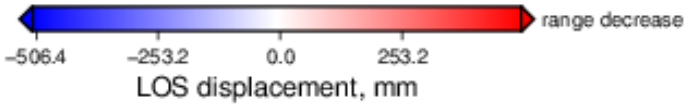
LOS Displacement



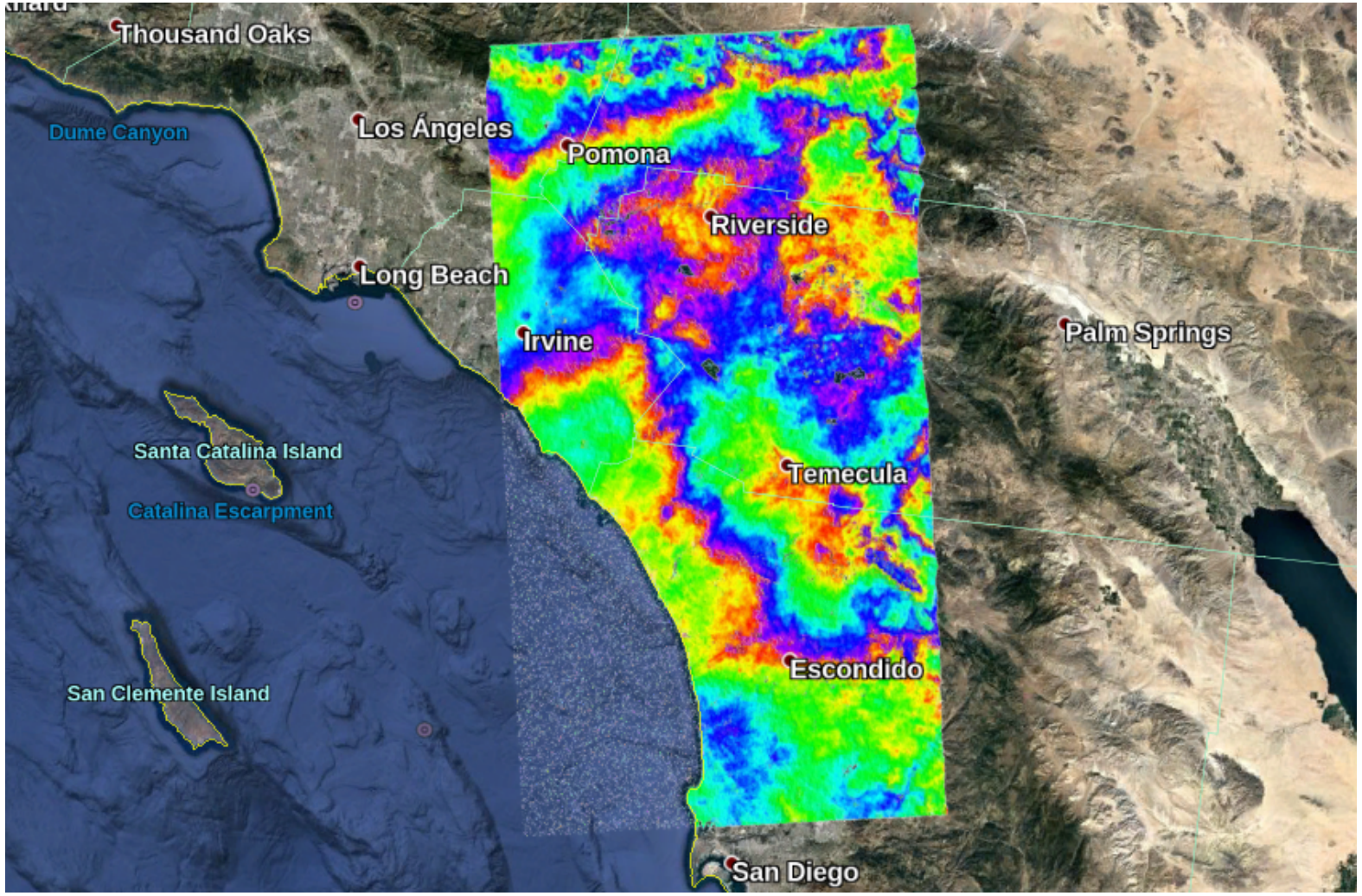


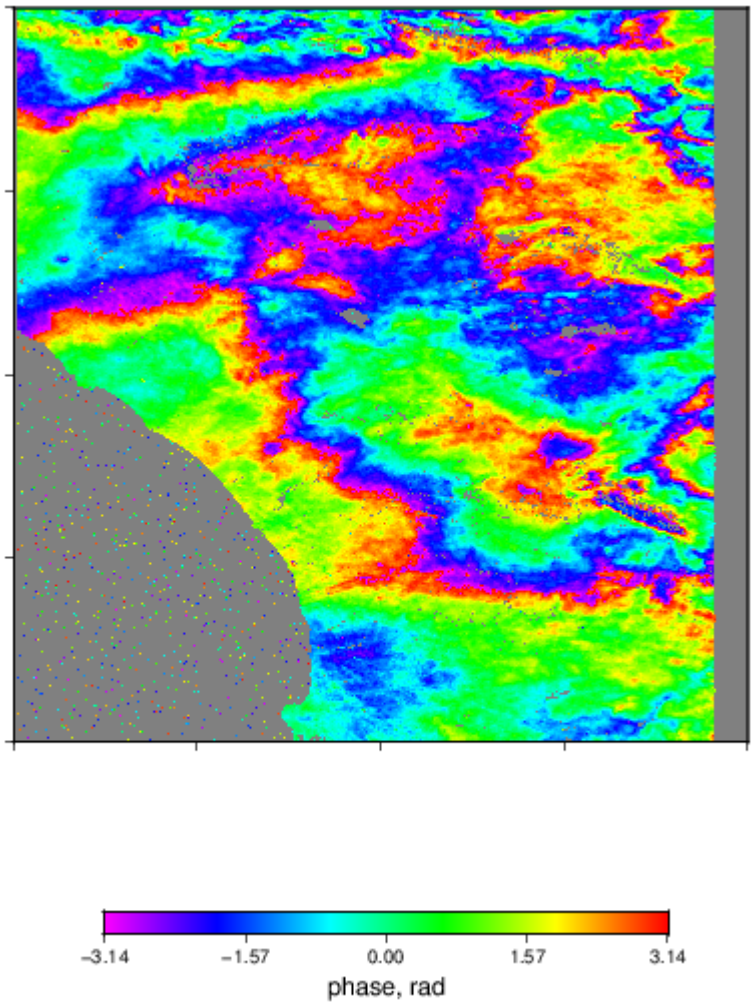
LOS Displacement is +
to the west of the break

LOS Displacement is -
to the east of the break

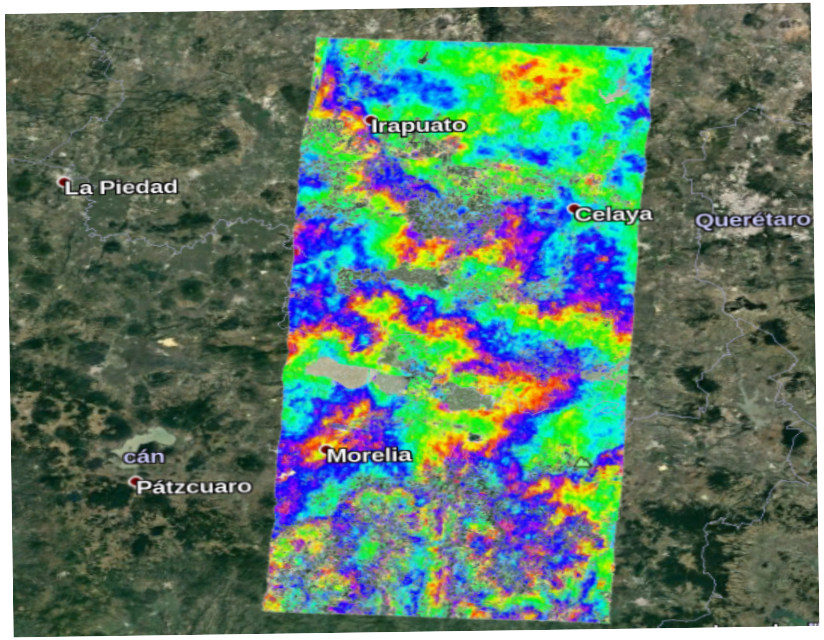


Exercise: Download Sentinel-1A TOPS Los Angeles





Morelia, Celaya, Irapuato, Queretaro and Mexico, City.



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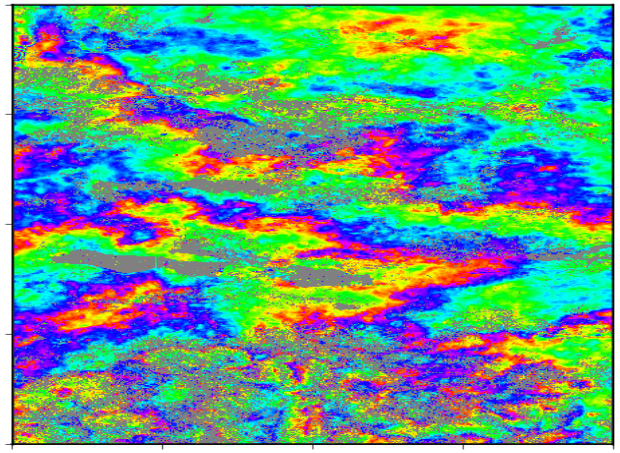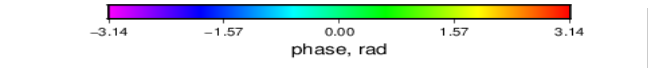
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