

Fifth GMTSAR Short Course

SIO, August, 2016
Sponsored by UNAVCO

David Sandwell, Scott Baker, Kurt Feigl, Rob Mellors,
Katia Tymofyeyeva, Matt Wei, Paul Wessel, **Eric Xu**



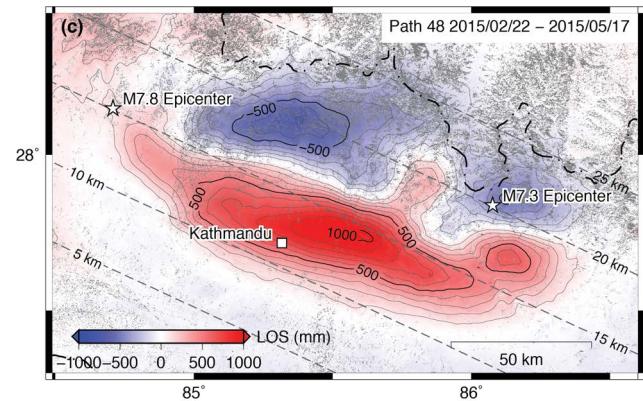


Katia Tymofeyeva and Eric Xu
GPS survey

GMT5SAR Developments

(supported by NSF, Geoinformatics Program)

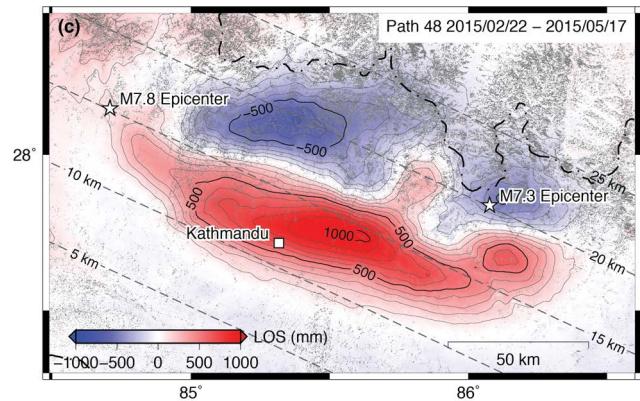
- full integration with GMT5
- no external libraries beyond GMT5 (e.g., boost)
- support for more InSAR satellites
- pure geometric alignment for Sentinel-1
- coherence-based SBAS with common-point stacking for atmospheric phase correction
- program to merge TOPS products
- **phase closure around large loops is transformative**



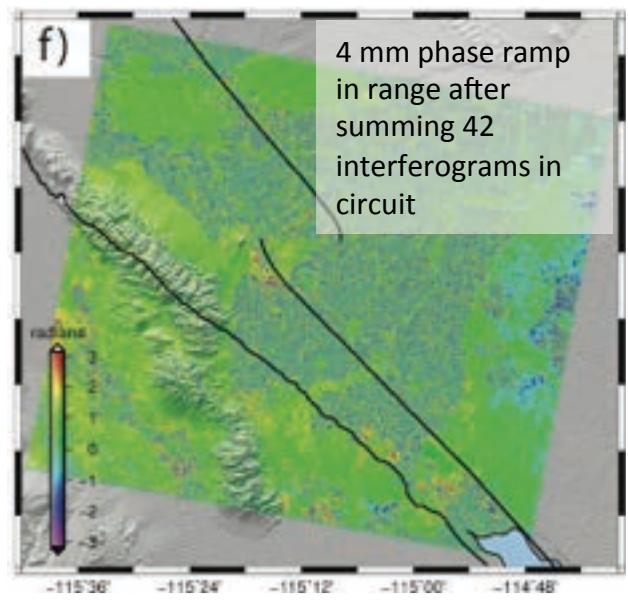
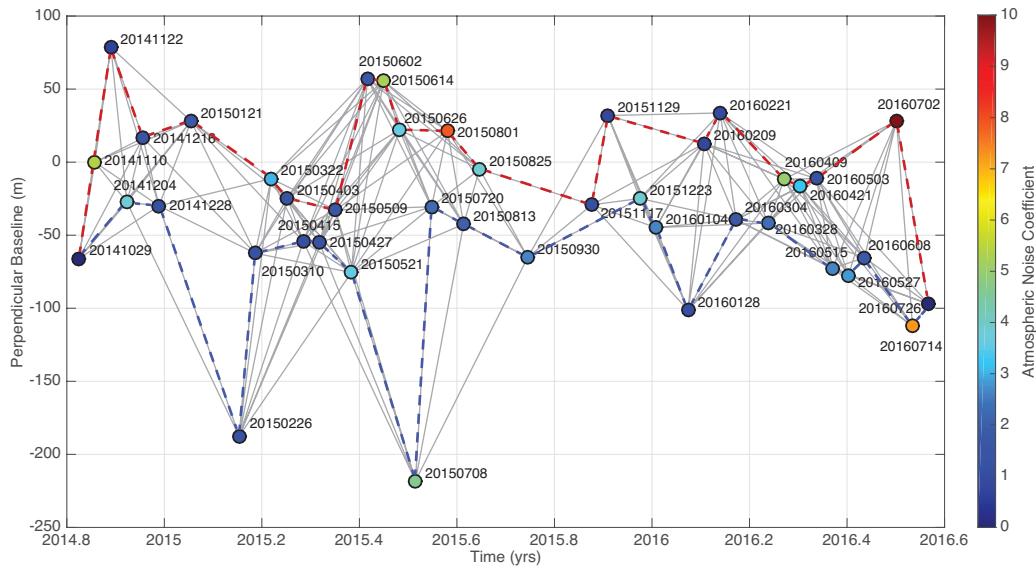


GMT5SAR Sentinel-1

(supported by NSF, Geoinfomatics Program)



phase closure around large loops is transformative



can construct long time series from short temporal baseline interferograms

can align any slave to the master even with no phase coherence – ESD is a crutch