Figure S1. The detailed process for removing the orbital error. (**a**) The unwrapped interferogram. (**b**) The quadratic ramp estimated from the whole image by excluding the earthquake deformation region indicated by the black rectangle in (**a**). (**e**) The interferogram with the orbital error mitigated.
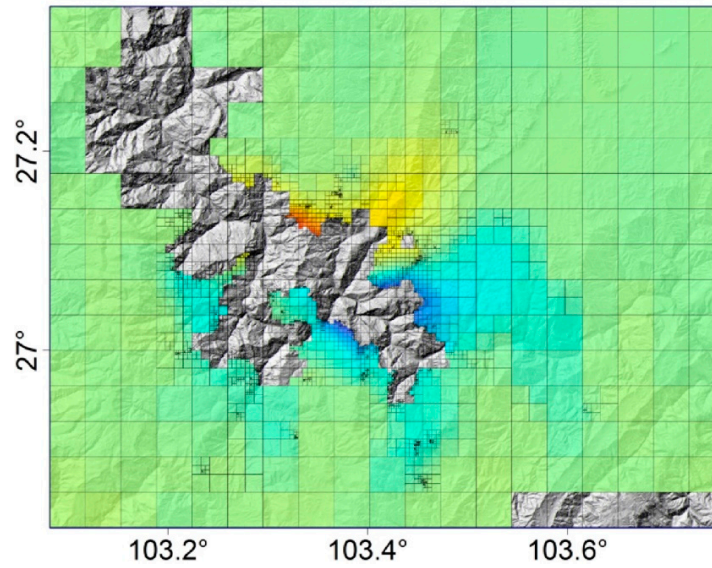

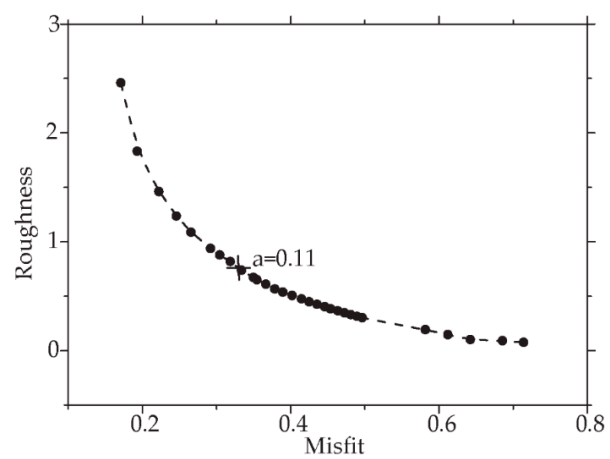**Figure S2.** Quadtree decomposition image of coseismic deformation map.

Figure S3. Trade-off curve between misfit and model roughness.