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SOLA

Supplementary Materials

Localized Delay Signals Detected by Synthetic Aperture Radar Interferometry and Their Simulation by WRF 4DVAR

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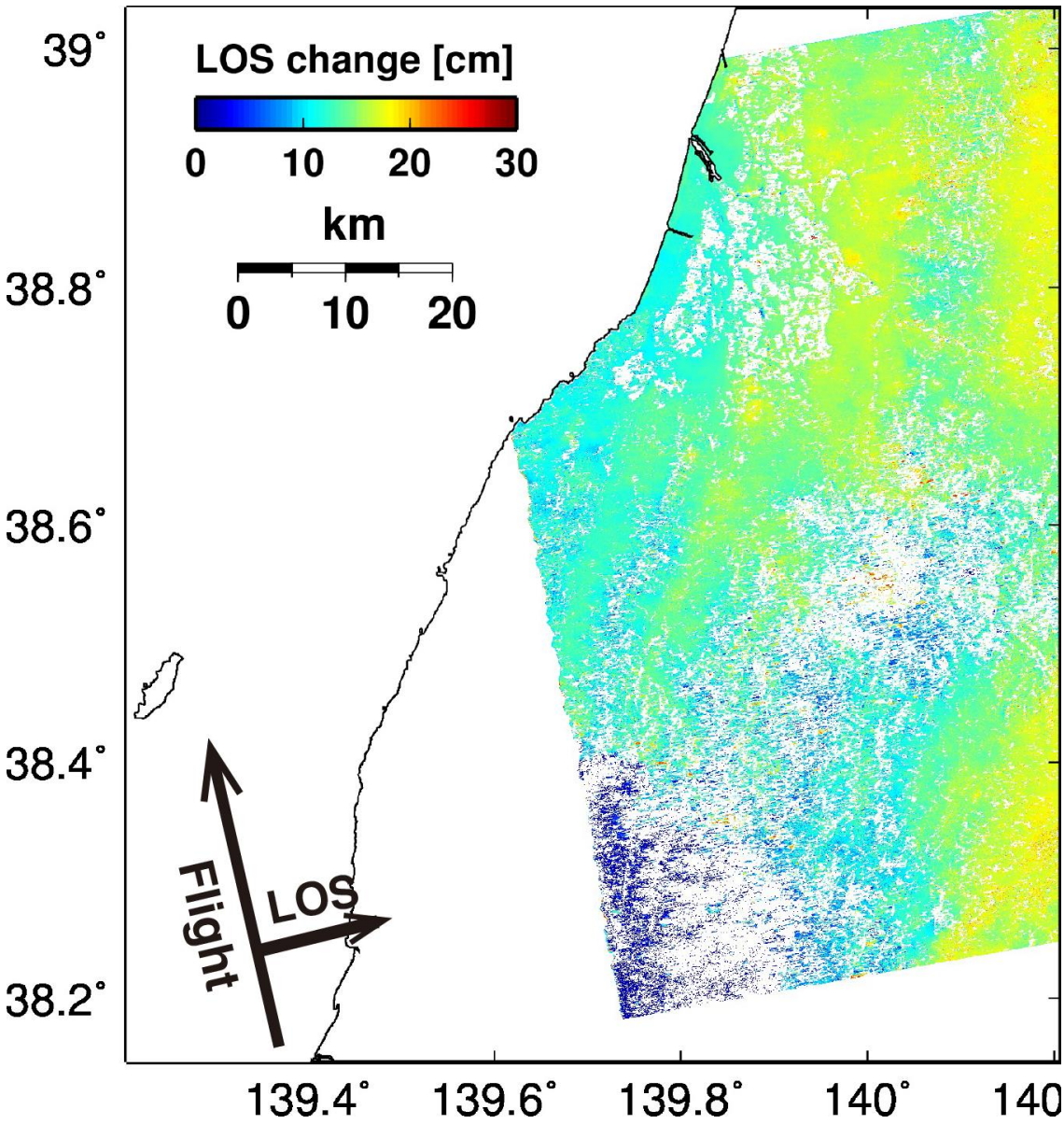
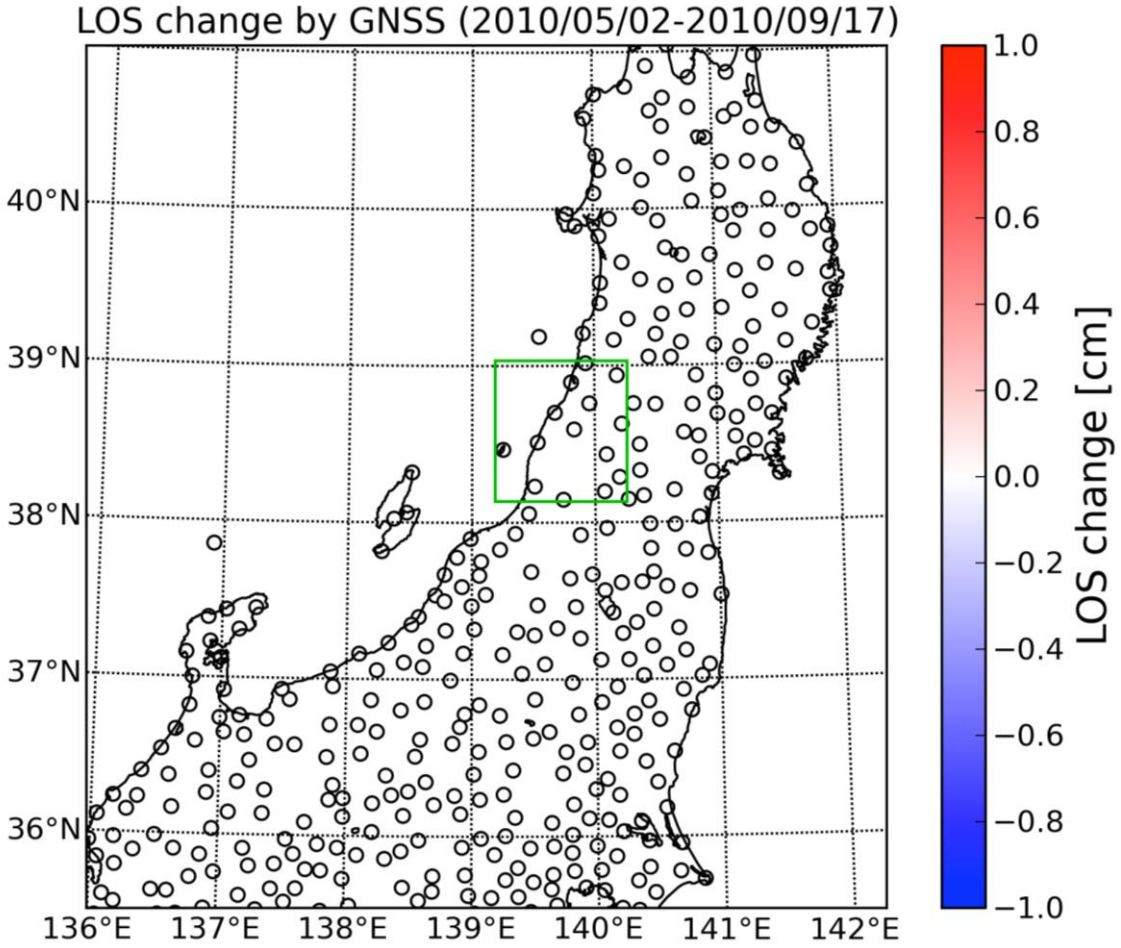


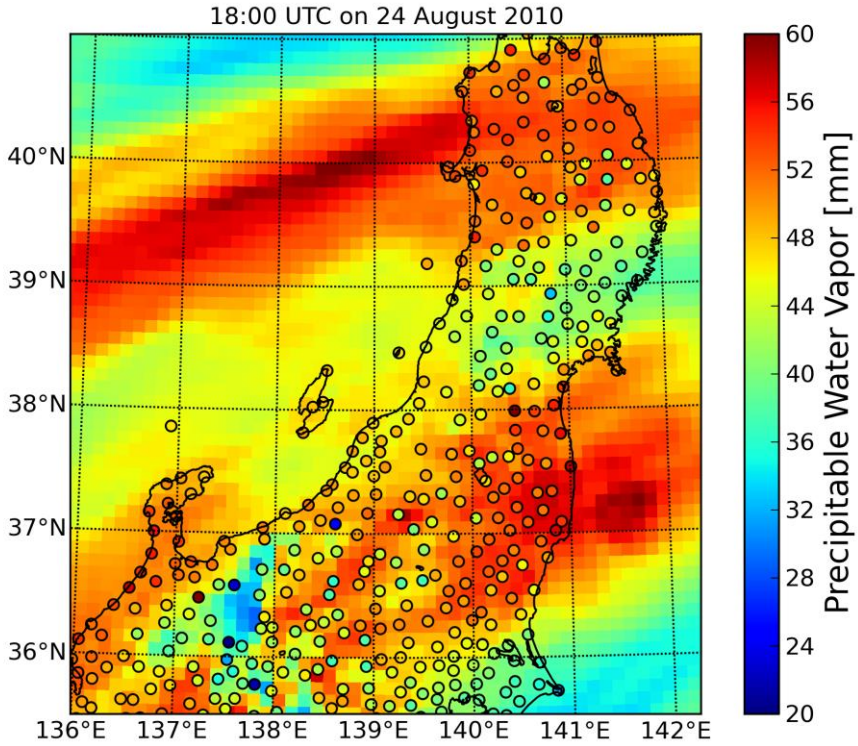
Supplement 1

An InSAR image derived from SAR data acquired at 13:07 UTC on 2 May 2010 and 17 September 2010. There are no significant displacement signals in this image. This interval covers the whole interval of the InSAR observation in Figure 2.



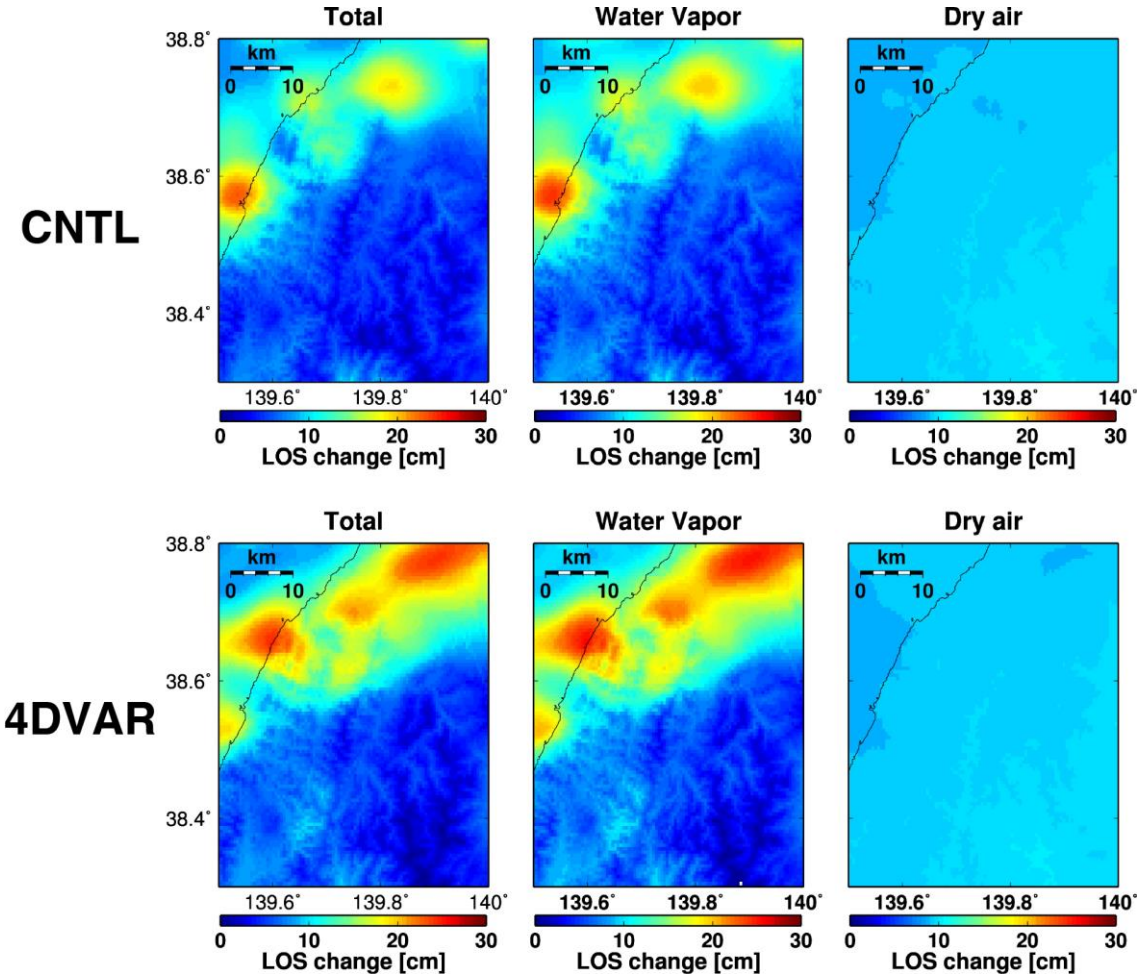
Supplement 2

Surface displacement in the SAR line-of-sight direction derived from GEONET F3 daily coordinate data between 2 May 2010 and 17 September 2010. A green box indicates the area of Figure 2, 3 and 4.



Supplement 3

PVW distributions derived from MSM data and GEONET zenith tropospheric delay data (colored circles) at 18:00 UTC on 25 August 2010.



Supplement 4

Simulated propagation delays of total amount (left), delays caused by water vapor (center) and delays caused by dry air (right). Upper images are derived from the CNTL simulation and lower images from the 4DVAR simulation.