

Erratum to
Temporal Variations of Seismic Velocity at Paradox Valley,
Colorado, Using Passive Image Interferometry

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In our recent article (Ugalde *et al.*, 2014), we applied the passive image interferometry technique of Sens-Schönfelder and Wegler (2006) to monitor seismic velocity changes in Paradox Valley (southwestern Colorado). For this purpose, we computed the autocorrelation functions (ACFs) of band-pass-filtered ambient seismic noise recordings and estimated the relative perturbations of the background seismic velocity using the stretching technique (Sens-Schönfelder and Wegler, 2006) and the moving window cross-spectral analysis (Poupinet *et al.*, 1984).

The processing scheme we followed to compute the ACFs is as follows: (1) we removed the mean and trend and deconvolved the instrument response of one-hour length continuous data; (2) band-pass filtered over frequency bands of 0.2–0.5, 0.5–1, 1–2, and 2–8 Hz; (3) applied a one-bit normalization in time domain; and (4) computed the ACFs and averaged the ACFs over 24 hours.

We did not whiten the signal in the frequency domain to compute the ACFs, as indicated in the article. Our computer code includes a spectral whitening module that is called when computing the cross-correlation functions, but it is skipped in the case of the autocorrelation. The authors regret any misunderstandings caused by this incorrect description.

References

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