

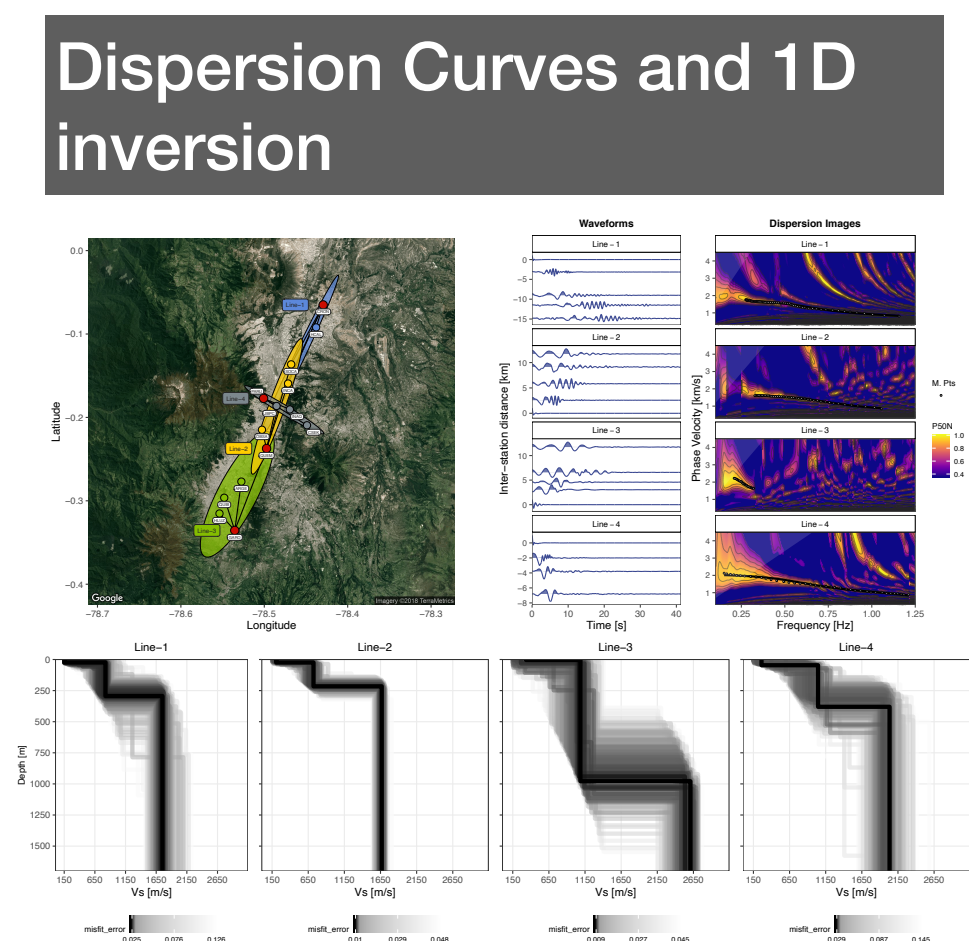
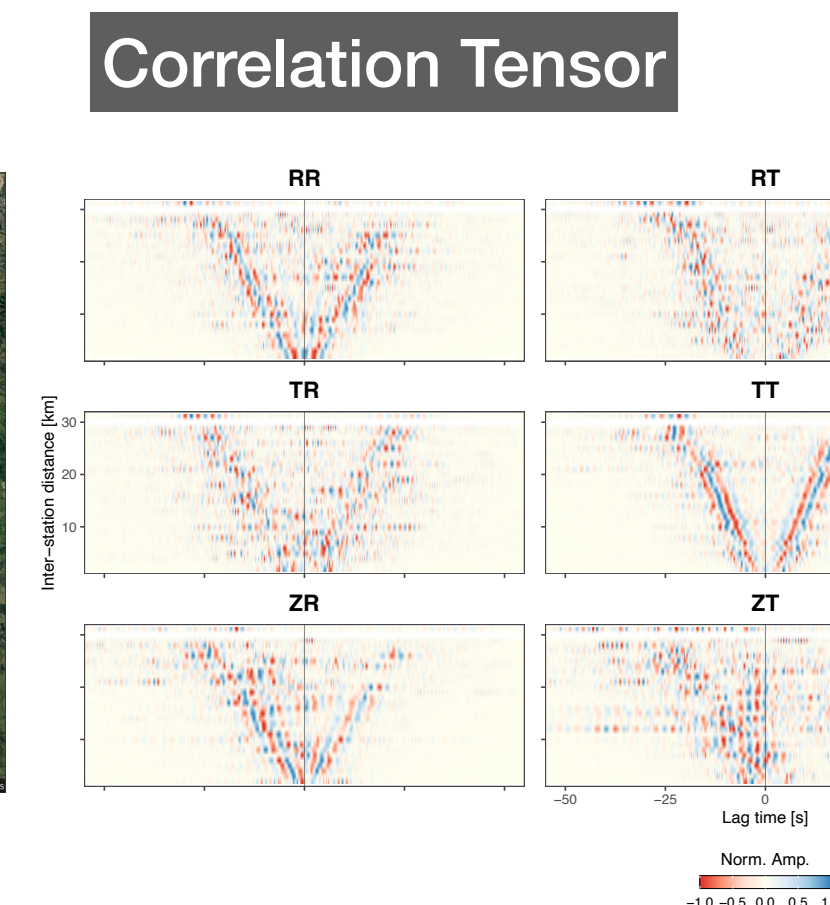
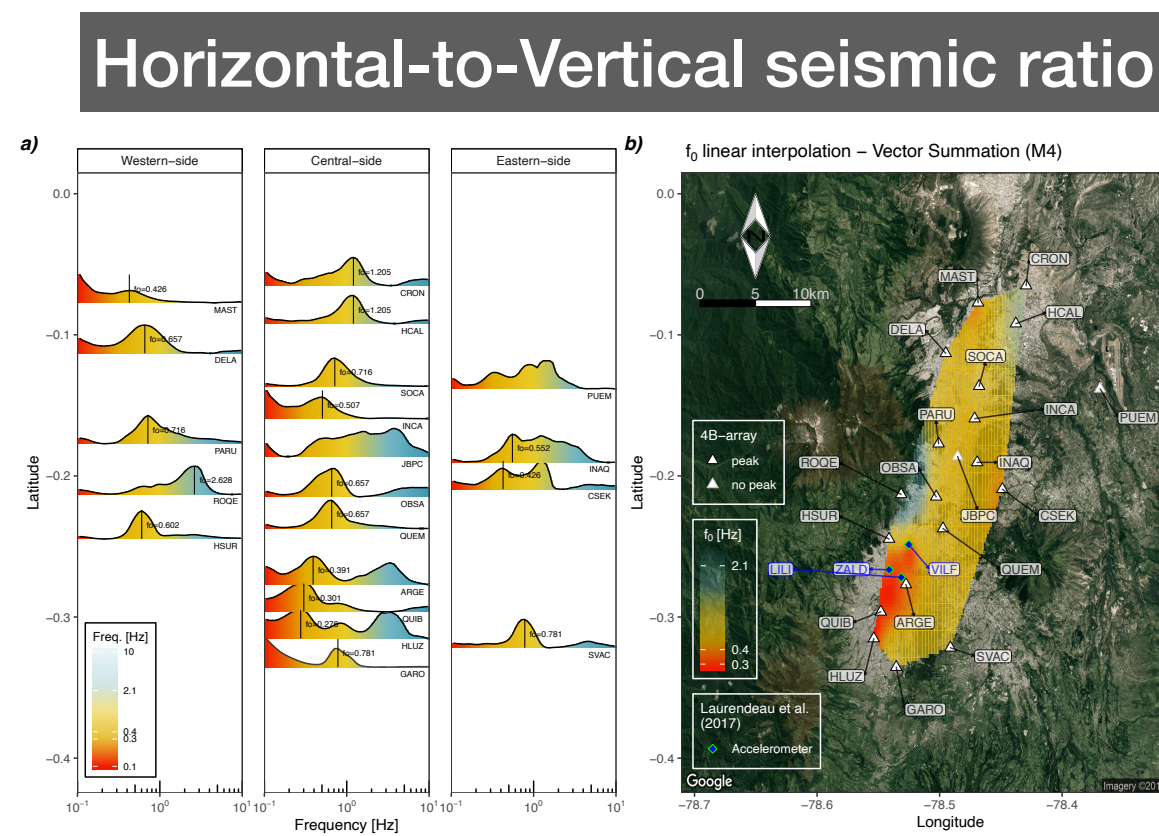
Seismic Imaging Using Auto- and Cross-correlation of seismic noise in the Quito (Ecuador) basin

D. Pacheco, E. D. Mercerat, F. Courboux, F. Bonilla, A. Laurendeau, A. Alvarado

(Pacheco et al., submitted to GJI)

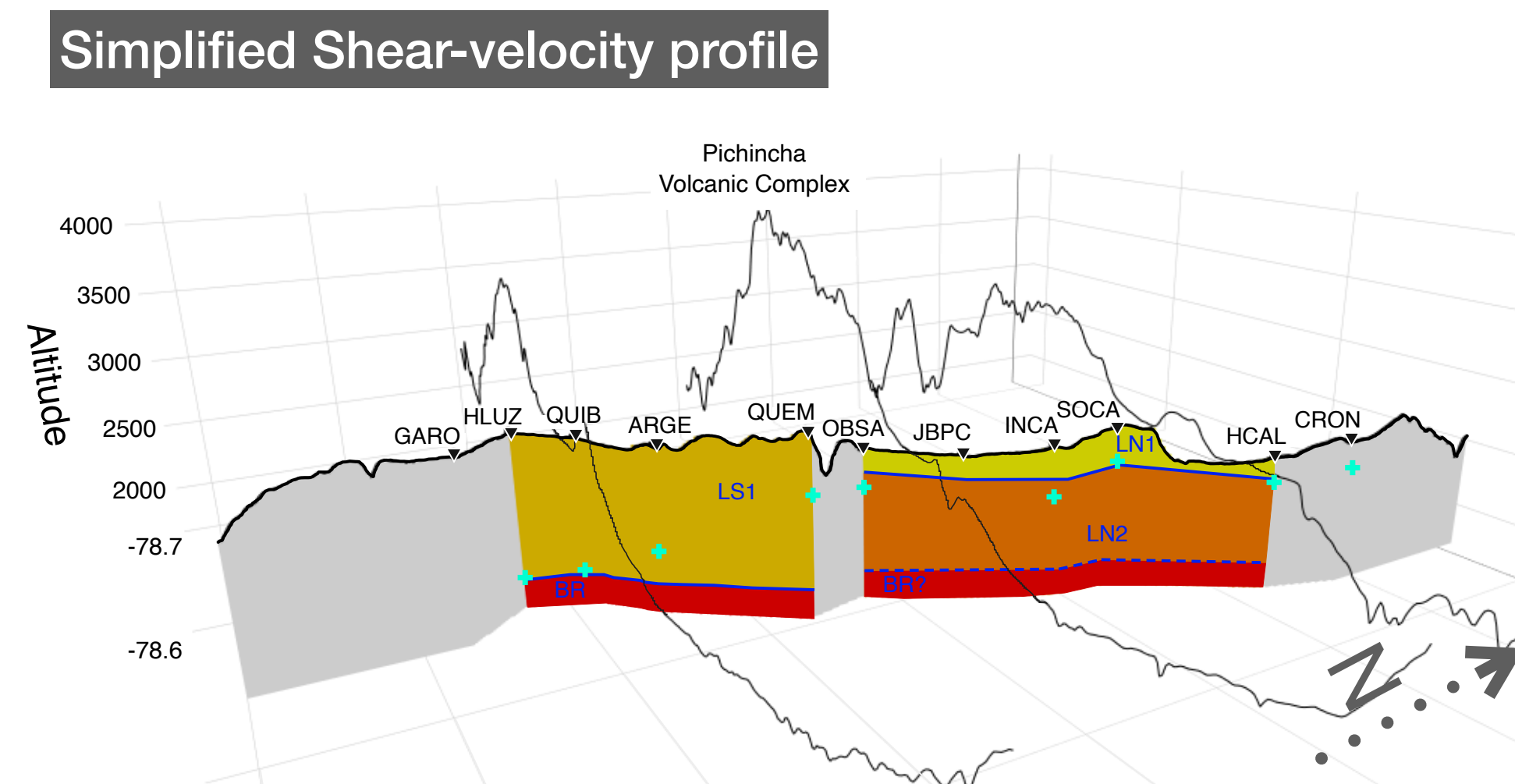
COMPUTATIONS:

➔ To image the uppermost geological structures in Quito (Ecuador), 20 broad- and mid-band seismological stations were deployed progressively throughout the city in an irregular array to record ambient seismic noise between May 2016 and July 2018.



RESULTS:

➔ This study presents the results of ambient noise auto- and cross-correlation of simultaneous operating seismic stations to retrieve: 1) zero-offset high frequency body-wave crustal reflections, and 2) inter-station, surface-wave Green's functions in the frequency band 0.1 - 2 Hz.



Seismic noise Autocorrelation

