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Crustal-scale reflection imaging and interpretation by passive seismic interferometry using local earthquakes

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22 Abstract

We show application of passive seismic interferometry (SI) using P-wave coda of local 23 earthquakes for the purpose of crustal-scale reflection imaging. We process the reflec-24 tion gathers retrieved from SI following a standard seismic processing in exploration 25 seismology. We apply SI to the P-wave coda using crosscorrelation, crosscoherence, and 26 multidimensional deconvolution approaches for data recorded in the Malargüe region, 27 Argentina. Comparing the results from the three approaches, we find that multidimen-28 sional deconvolution based on the truncated singular-value decomposition scheme gives 29 us a substantially better structural imaging. Although our results provide higher reso-30 lution images of the subsurface, it shows less clear images for the Moho in comparison 31 with previous seismic images in the region obtained by receiver function and global-32 phase seismic interferometry. Above the Moho, though, , we interpret a deep thrust 33 fault and the possible melting zones which are previously indicated by active-seismic 34 and magnetotelluric methods in this region, respectively. The method we propose could 35 be an alternative option not only for crustal-scale imaging, e.g., in enhanced geothermal 36 systems, but also for the lithospheric-scale as well as basin-scale imaging, depending on 37 the availability of local earthquakes and the frequency bandwidth of their P-wave coda. 38

39 Introduction

Crustal imaging is vitally relevant for understanding processes like earthquake mechanisms, magmatism, deep geothermal explorations, and basin tectonics. In order to obtain an image of the crust, both active sources (e.g., vibroseis and airguns) and passive sources (e.g., ambient noise and earthquakes) have been used. For the former, the reflection method (e.g., Granath et al., 2010) and refraction method (e.g., Zhao et al., 2013) are well known, whereas for the latter, traveltime tomography (Aki et al., 1977), full waveform tomography (Operto et al., 2006), receiver function (Langston, 1979), and the ⁴⁷ Sp-waves method (Doi and Kawakata, 2013) have been applied.

A very attractive passive seismic method is seismic interferometry (SI) (e.g., Aki, 48 1957; Claerbout, 1968; Campillo and Paul, 2003; Shapiro and Campillo, 2004; Wape-49 naar, 2004), which retrieves virtual seismic records from existing seismic records. In 50 this study, we focus on body-wave SI. Although the imaging resolution achieved by 51 passive SI might not be easily compatible with the one achieved by the active-source 52 reflection method, it has a potential to contain low-frequency information, i.e., \leq 5 Hz, 53 which enables us to interpret deeper structures, such as in the lower crust and lithosphere. 54 Moreover, as an economically attractive aspect, the shooting cost of the passive seismic 55 method is zero. For reflection retrieval by passive SI, several applications have been 56 already reported, both for ambient noise (e.g., Draganov et al., 2009; Zhan et al., 2010; 57 Ryberg, 2011; Panea et al., 2014; Almagro Vidal et al., 2014) and local earthquakes (e.g., 58 Nakata et al., 2011, 2014). 59

There are five ways SI can be applied: using correlation (Claerbout, 1968; Duvall et 60 al., 1993); coherence (Aki, 1957); trace deconvolution (Snieder and Şafak, 2006; Vas-61 concelos and Snieder, 2008a, 2008b); convolution (Slob et al., 2007); and multidimen-62 sional deconvolution (MDD; Wapenaar et al., 2008). Nakata et al. (2011) compared the 63 common midpoint (CMP) stacks obtained from SI by crosscorrelation, trace deconvolu-64 tion, and crosscoherence using traffic noise. The authors suggested that the selection of 65 a proper SI method depends on the data set at hand. In addition to the synthetic compar-66 ison of the results obtained from crosscorrelation and MDD by Wapenaar et al. (2011), 67 Nakata et al. (2014) compared SI results obtained using trace deconvolution, cross-68 coherence, and MDD results (after applying wavefield decomposition), applied to data 69 representing local earthquakes in order to retrieve reflected plane waves. They concluded 70 that MDD provides gathers that have the best signal-to-noise ratio among the compared 71 SI methods. 72



In this paper, we propose a seismic imaging technique that applies passive SI (two-

way traveltime ≤ 20 s) to P-wave coda due to local earthquakes ($2^{\circ} \leq$ epicentral distances 74 $\leq 6^{\circ}$). Hereafter, we abbreviate this method as LEPC (local-earthquake P-wave coda) 75 SI. The coda waves are the tail part of a signal consisting of multiply scattered waves 76 (Snieder, 2004). Hence, we assume that their directivity is weak (e.g., Mayeda et al., 77 2007; Baltay et al., 2010; Abercrombie, 2013), and thus that they illuminate the subsur-78 face beneath the receivers favorably for retrieval of reflections. We apply LEPC SI to 79 data recorded by an exploration-type receiver array called MalARRgue (Ruigrok et al., 80 2012) that was located in the Malargüe region (Mendoza, Argentina) (Figure 1). Because 81 the west coast of Chile has considerable seismicity due to the Nazca-slab subduction, we 82 choose this region to test LEPC SI. 83

In the following, we show how to apply LEPC SI using the different retrieval methods (crosscorrelation, crosscoherence, and MDD) for the purpose of crustal-scale reflection imaging.

87 Study Area and Data

The Malargüe region is located in the northern part of the Neuquén basin, Argentina. 88 This basin has been producing nearly half of the Argentine hydrocarbons, but has also 89 been providing geothermal power. The Peteroa Volcano, which is an active volcano in 90 the Andes Mountains in the Malargüe region, is situated close to part of the array we use 91 (Figure 1). The locations of local earthquakes that occurred in 2012 around the Malargüe 92 region are shown in Figure 1 on a topography map (Becker et al., 2009). The source 93 locations of the earthquakes are provided by Java version of Windows Extracted from 94 Event Data (JWEED) operated by the Incorporated Research Institutions for Seismology 95 (IRIS). We define local earthquakes as those earthquakes whose epicentral distances are 96 between 2° and 6°. This definition is close to the one introduced by Kayal (2008). For 97 the sake of terminological clarification, regional earthquakes, which we do not use in 98 this study, are the earthquakes whose epicentral distances are larger than 6° . In Figure 99

1, we indicate with triangles the location of the part of the MalARRgue that we use in 100 our study: the T-array, which is an linear receiver array deployed at the surface. The 101 T-array consists of two linear subarrays: the TN-array with 19 stations spaced every 2 102 km (labeled TN02 to TN20; white triangles in Figure 1), oriented in the NNW direction; 103 the TE-array with 13 stations spaced every 4 km (labeled TE01 to TE13; black triangles 104 in Figure 1), oriented in the ENE direction. These stations are three-component velocity 105 sensors. The 115 circles and 210 stars indicate the location of the local earthquakes 106 recorded by the TN- and TE-array, respectively, and characterized by sufficient signal-to-107 noise-ratio of the P-wave coda. The TE-array recorded a higher number of earthquakes 108 than the TN-array, because the TE-array was operating longer. The coverage of back 109 azimuth of these earthquakes with respect to the T-array is wide (see Figures 1 and 2). A 110 complete list of the local earthquakes used in this study is shown in Table 1. 111

Local-Earthquake P-wave Coda Seismic Interferometry (LEPC SI)

114 Crosscorrelation

In Claerbout (1968), virtual reflection traces were retrieved from the autocorrelation of 115 the recorded transmission response in a horizontally layered medium. Later, he conjec-116 tured that in 3D inhomogeneous media, one has to use crosscorrelation to retrieve the 117 reflection response between two receivers at the surface. This was proven by Wape-118 naar (2004) for an arbitrary inhomogeneous elastic medium. The author showed that the 119 Green's function $G_{p,q}^{v,t}(\mathbf{x}_A, \mathbf{x}_B, \boldsymbol{\omega})$, representing particle-velocity measurement (v) in the 120 *p*-direction at a receiver at \mathbf{x}_A due to a point single-force (t) at \mathbf{x}_B in the *q*-direction, can 121 be retrieved from the crosscorrelation of observed particle-velocity measurements v_p^{obs} 122 and v_q^{obs} at \mathbf{x}_A and \mathbf{x}_B , respectively, from uncorrelated noise sources in the subsurface: 123

$$2Re\{G_{p,q}^{\nu,t}(\mathbf{x}_A,\mathbf{x}_B,\boldsymbol{\omega})\}S_N(\boldsymbol{\omega})\approx -\left\langle\left\{v_p^{obs}(\mathbf{x}_A,\boldsymbol{\omega})\right\}^*\left\{v_q^{obs}(\mathbf{x}_B,\boldsymbol{\omega})\right\}\right\rangle.$$
(1)

The above equation is written in the frequency domain, indicated by the angular fre-124 quency ω ; the asterisk denotes complex conjugation; $\langle \rangle$ indicates averaging over source 125 realizations; and the particle-velocity measurements are in the p- and q-directions. The 126 observed data v^{obs} is representing the superposition of recordings from uncorrelated 127 noise sources distributed along a surface that illuminated the received from all directions. 128 $S_N(\omega)$ denotes the power spectrum of the noise. Due to the source-receiver configuration 129 in this study, we exclude the direct wave, which would not fall inside the stationary-phase 130 region for retrieval of reflections. This happens because the epicentral distances of the 131 earthquakes are relatively long compared to their hypocentral depth. We thus aim to use 132 arrivals characterized by slowness smaller than the ones characterizing the direct waves. 133 Note that the exclusion of the direct waves might give rise to artifacts in the retrieved 134 response. Nevertheless, these artifacts should not pose a problem as long as our main 135 aim is to recover the primary reflections. Moreover, having sufficiently long record-136 ings of coda waves would ensure illumination of the receivers from all directions due to 137 equipartitioning. In such a case, one can exchange the noise recordings in equation (1) 138 by recordings of coda waves v^c . For our application, we define an observed P-wave coda 139 of a local earthquake as 140

$$v_z^c(\mathbf{x}_A, \boldsymbol{\omega}) = G_z^c(\mathbf{x}_A, \mathbf{x}_S, \boldsymbol{\omega}) E(\mathbf{x}_S, \boldsymbol{\omega}), \tag{2}$$

where *z* indicates that we are using the vertical component of the recordings and $E(\mathbf{x}_S, \boldsymbol{\omega})$ is the Fourier transform of the source time function (STF) of a local earthquake at \mathbf{x}_S in the subsurface. As P-wave coda, we use the part of the recording after the direct arrival ¹⁴⁴ of the *P*-phase and before the direct arrival of the *S*-phase.

Because of the limitation on the length of the coda recordings, we cannot expect that the receivers would be illuminated equally well from all directions. Because of this, we would like to repeat the correlation for many local earthquakes with wide distribution of the back azimuth (see Figures 1 and 2) and to average the separate correlations. Thus we rewrite equation (1) as

$$2Re\left\{G_{z,z}^{v,t}(\mathbf{x}_A, \mathbf{x}_B, \boldsymbol{\omega})\right\}\overline{S}_E(\boldsymbol{\omega}) \propto -\sum_{S=1}^n \left[\left\{v_z^c(\mathbf{x}_A, \boldsymbol{\omega})\right\}^* v_z^c(\mathbf{x}_B, \boldsymbol{\omega})\right],\tag{3}$$

where we have exchanged $\langle \rangle$ of equation (1) by a summation over the independent local earthquakes. $\bar{S}_E(\omega)$ denotes the average power spectrum of the STF over the earthquakes.

153 Crosscoherence

The crosscoherence method (Aki, 1957) is a technique to normalize the amplitude among different source or receiver pairs. By applying SI by crosscoherence instead of crosscorrelation we expect to retrieve better signal-to-noise ratio in terms of the phase in comparison with the crosscorrelation (e.g., Prieto et al., 2009; Nakata et al., 2011). To apply SI by crosscoherence, we rewrite equation (3) as

$$2Re\left\{G_{z,z}^{v,t}(\mathbf{x}_A, \mathbf{x}_B, \boldsymbol{\omega})\right\} \propto \sum_{S=1}^n \frac{\{v_z^c(\mathbf{x}_A, \boldsymbol{\omega})\}^* v_z^c(\mathbf{x}_B, \boldsymbol{\omega})}{|v_z^c(\mathbf{x}_A, \boldsymbol{\omega})| |v_z^c(\mathbf{x}_B, \boldsymbol{\omega})| + \varepsilon},\tag{4}$$

where ε denotes a stabilization factor (also called a damping factor or a regularization parameter). Since the crosscoherence enhances both the signal and the noise, it is important to have data that is not dominated by noise. Note that in the above equation, the retrieved Green's function is no longer modulated by the average power spectrum of the ¹⁶³ STF, as the crosscoherence eliminates it.

¹⁶⁴ Multidimensional Deconvolution (MDD)

While the aforementioned crosscorrelation and crosscoherence calculate the reflection 165 response trace by trace, MDD is a receiver-array-based SI method that calculates the 166 reflection response (the scattered Green's function in Wapenaar et al., 2011) simultane-167 ously for all observed responses via matrix inversion. Although the application of MDD 168 requires regularly-spaced receivers, a point-spread function (PSF), and a regularization 169 approach for the matrix inversion, this technique theoretically removes the influence of 170 the (variation of the) STF of the sources, takes intrinsic attenuation into account (which is 171 not the case for correlation nor coherence) and compensates for possibly inhomogeneous 172 illumination of the receivers by the coda wavefield. 173

The PSF is a well-known gauge for imaging quality in optics, such as microscopy. In 174 exploration seismology, the PSF is used to quantify the effect of the source and receiver 175 distribution and of the STF on the imaging results. In analogy with this, van der Neut 176 et al. (2010, 2011) showed that the result from SI by crosscorrelation could actually be 177 seen as the blurring (temporal and spatial convolution) of the desired scattered Green's 178 function with a PSF. This PSF is obtained from the crosscorrelation of recordings at the 179 receivers at the surface as if above the receivers there were a homogeneous half space 180 (e.g., Wapenaar et al., 2011). Nakahara and Haney (2015) recently showed that the 181 PSF could also be used for studying earthquake sources. Application of SI by MDD 182 is actually deconvolving the crosscorrelation result by the PSF. To obtain the required 183 wavefield for the retrieval of the correlation result and the PSF, one can apply wavefield 184 decomposition at the Earth's surface (Nakata et al., 2014). This, though, would require 185 a good velocity model for the near surface, which in areas like Malargüe, characterized 186 by strong lateral inhomogeneity, is not readily available. Because it is not possible to 187 obtain measurements as if the Earth's surface were covered by a homogeneous half space, 188

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following Wapenaar et al. (2011) we use an approximate relation for the application ofSI by MDD:

$$\sum_{S=1}^{n} \left[\left\{ v_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) \right\}^{*} v_{z}^{c}(\mathbf{x}_{B}, \boldsymbol{\omega}) \right] - 2\Gamma(\mathbf{x}_{B}, \mathbf{x}_{A}, \boldsymbol{\omega}) \propto$$

$$\iint_{\partial D_{0}} G_{z, z}^{scatt, d}(\mathbf{x}_{B}, \mathbf{x}, \boldsymbol{\omega}) \Gamma(\mathbf{x}, \mathbf{x}_{A}, \boldsymbol{\omega}) d^{2} \mathbf{x}$$
(5)

where Γ is the approximated PSF and $G_{z,z}^{scatt,d}$ is the scattered Green's function due to 191 a dipole source. Figure 3 shows a schematic image of the terms in equation (5). The 192 integral in equation (5) is taken along the receiver positions (Earth's surface ∂D_0). A 193 derivation of equation (5) is given in Appendix A. Just like Wapenaar et al. (2011), 194 we look at the recorded wavefield as a part that will be recorded at the receivers in the 195 absence of a free surface and a part due to the presence of the free surface (which is 196 the former after being reflected at the free surface at least once). The Γ in equation (5) 197 (see Figures 9c and 9f later in this paper) can be estimated by extracting time-windowed 198 signals from the crosscorrelation at \mathbf{x}_A and \mathbf{x}_B (the right-hand side of equation 3) (see 199 Figures 9c and 9f later in this paper) of the wavefield that would be recorded in the 200 absence of a free surface at the receivers. The signals that make up Γ exhibit a butterfly-201 shaped window around t = 0 (see Figures 9c and 9f later in this paper), narrowest when 202 $\mathbf{x}_A = \mathbf{x}_B$. We assume that the contribution from the crosscorrelation at \mathbf{x}_A and \mathbf{x}_B of the 203 wavefield that would be recorded due to the presence of a free surface at the receivers is 204 sufficiently small to be neglected (van der Neut et al., 2010; Wapenaar et al., 2011). Note 205 that the numerical test showed that the approximation can provide the correct scattered 206 Green's function with small inversion artifacts (van der Neut et al., 2010). For notational 207 simplicity, we define the left hand-side of equation (5) as 208

$$C'(\mathbf{x}_B, \mathbf{x}_A, \boldsymbol{\omega}) = \sum_{S=1}^n \left[\left\{ v_z^c(\mathbf{x}_A, \boldsymbol{\omega}) \right\}^* v_z^c(\mathbf{x}_B, \boldsymbol{\omega}) \right] - 2\Gamma(\mathbf{x}_B, \mathbf{x}_A, \boldsymbol{\omega}).$$
(6)

²⁰⁹ Substituting equation (6) in equation (5), we obtain

$$C'(\mathbf{x}_B, \mathbf{x}_A, \boldsymbol{\omega}) \propto \iint_{\partial D_0} G^{scatt, d}_{z, z}(\mathbf{x}_B, \mathbf{x}, \boldsymbol{\omega}) \Gamma(\mathbf{x}, \mathbf{x}_A, \boldsymbol{\omega}) d^2 \mathbf{x}.$$
(7)

Equation (7) can be discretized by fixing the position of \mathbf{x}_B and varying the receiver position \mathbf{x}_A :

$$\begin{pmatrix} C'(\mathbf{x}_{B},\mathbf{x}_{1},\boldsymbol{\omega}) \\ C'(\mathbf{x}_{B},\mathbf{x}_{2},\boldsymbol{\omega}) \\ \vdots \\ C'(\mathbf{x}_{B},\mathbf{x}_{m},\boldsymbol{\omega}) \end{pmatrix} \propto \begin{pmatrix} \Gamma(\mathbf{x}_{1},\mathbf{x}_{1},\boldsymbol{\omega}) & \Gamma(\mathbf{x}_{2},\mathbf{x}_{1},\boldsymbol{\omega}) & \cdots & \Gamma(\mathbf{x}_{m},\mathbf{x}_{1},\boldsymbol{\omega}) \\ \Gamma(\mathbf{x}_{1},\mathbf{x}_{2},\boldsymbol{\omega}) & \Gamma(\mathbf{x}_{2},\mathbf{x}_{2},\boldsymbol{\omega}) & \cdots & \Gamma(\mathbf{x}_{m},\mathbf{x}_{2},\boldsymbol{\omega}) \\ \vdots & \vdots & \ddots & \vdots \\ \Gamma(\mathbf{x}_{1},\mathbf{x}_{m},\boldsymbol{\omega}) & \Gamma(\mathbf{x}_{2},\mathbf{x}_{m},\boldsymbol{\omega}) & \cdots & \Gamma(\mathbf{x}_{m},\mathbf{x}_{m},\boldsymbol{\omega}) \end{pmatrix} \begin{pmatrix} G_{z,z}^{scatt,d}(\mathbf{x}_{B},\mathbf{x}_{1},\boldsymbol{\omega}) \\ G_{z,z}^{scatt,d}(\mathbf{x}_{B},\mathbf{x}_{2},\boldsymbol{\omega}) \\ \vdots \\ G_{z,z}^{scatt,d}(\mathbf{x}_{B},\mathbf{x}_{m},\boldsymbol{\omega}) \end{pmatrix} \end{pmatrix}$$

$$(8)$$

where we assume that we have *m* receivers in total. We can simplify equation (8) using matrix-vector notation:

$$\mathbf{c}' \propto \mathbf{\Gamma} \mathbf{g},\tag{9}$$

where Γ is a $m \times m$ matrix, respective \mathbf{c}' and \mathbf{g} are $m \times 1$ column vectors showing receiver gathers. Constructing multiple column vectors using equation (8) for variable \mathbf{x}_B and arranging them as columns of a matrix, we obtain:

$$\mathbf{C}' \propto \mathbf{\Gamma} \mathbf{G},\tag{10}$$

where C' and G are $m \times m$ monochromatic matrices containing $C'(\mathbf{x}_m, \mathbf{x}_m, \boldsymbol{\omega})$ and $G_{z,z}^{scatt,d}(\mathbf{x}_m, \mathbf{x}_m, \boldsymbol{\omega})$, respectively. Estimating the dipole scattered Green's function in equation (10) requires matrix inversion:

$$\mathbf{G}' \propto [\mathbf{\Gamma}]^{-g} \mathbf{C}',\tag{11}$$

where $[\mathbf{\Gamma}]^{-g}$ is a generalized inverse of $\mathbf{\Gamma}$, and \mathbf{G}' is an estimate of \mathbf{G} .

Note that our receiver configuration might not be optimal for MDD studies. The number of receivers we have is relatively small - 19 and 13 for the TN- and TE-array, respectively. Fewer receivers leads to more severely ill-posed solutions in the inversion process. Two approaches to stabilize the MDD in equation (11) have been used: a damped least-squares (Menke, 1989); and a singular-value decomposition (SVD; Klema and Laub, 1980).

227 MDD by Damped Least Squares

The damped least-square solution is a commonly used approach for MDD studies (e.g., Wapenaar et al., 2008; van der Neut et al., 2011; Boullenger et al., 2015). This scheme can be directly adapted to the generalized inverse matrix in equation (11), resulting in

$$\mathbf{G}' \approx \left[\mathbf{\Gamma}^{\dagger} \mathbf{\Gamma} + \varepsilon \mathbf{I} \right]^{-1} \mathbf{\Gamma}^{\dagger} \mathbf{C}', \tag{12}$$

where ε and I indicate a stabilization factor and the identity matrix, respectively. The

²³² symbol † denotes the complex conjugate transpose matrix. In practice, Γ is estimated in ²³³ the time domain and then transformed to the frequency domain by the Fourier transform. ²³⁴ A disadvantage of this scheme is that choosing an appropriate stabilization factor tends ²³⁵ to be inevitably subjective because it is difficult to evaluate the data redundancy in a ²³⁶ quantitave way.

²³⁷ MDD by Truncated Singular-Value Decomposition (SVD)

There are only a few examples of MDD based on the truncated SVD scheme (e.g., Mi-238 nato et al., 2011, 2013). The concept of the truncated SVD scheme is fundamentally 239 close to the principal component analysis (Pearson, 1901) in machine learning, which 240 is also called a subspace method or Karhunen-Loève expansion, and the latent semantic 241 analysis (Borko and Bernick, 1963) in natural language processing. For example, both 242 the truncated SVD scheme and the principal component analysis find the data directions 243 (axes) from the eigenvectors of the covariance matrix using the SVD algorithm via La-244 grange multiplier. Here, we briefly introduce the truncated SVD scheme. 245

Let us define the SVD of Γ in equation (10) as:

$$\Gamma = \mathbf{U} \begin{pmatrix} \mathbf{\Delta}_r & \mathbf{0} \\ \mathbf{0} & \mathbf{0} \end{pmatrix} \mathbf{V}^{\dagger}, \tag{13}$$

where **U** is a a left-singular matrix (orthonormal-basis matrix), **V** is a right-singular matrix (orthonormal-basis matrix). \mathbf{V}^{\dagger} is the adjugate (adjoint) matrix that is the complex conjugate transpose matrix of **V**. $\boldsymbol{\Delta}_r$ is an $r \times r$ diagonal matrix whose elements are the singular values of the monochromatic matrix $\boldsymbol{\Gamma}$, obtained by truncation. We define the dimension *r* as the number of significant singular values by specifying a threshold value. Then, we adapt the Moore-Penrose pseudoinverse (Golub and van Loan, 1983) for equation (13):

$$[\mathbf{\Gamma}]^{-g} = \mathbf{V} \begin{pmatrix} \mathbf{\Delta}_r^{-1} & \mathbf{0} \\ \mathbf{0} & \mathbf{0} \end{pmatrix} \mathbf{U}^{\dagger}, \tag{14}$$

where U^{\dagger} is the adjugate (adjoint) matrix of U. In the following section, we show the MDD results of the damped least-squares scheme and the truncated SVD scheme.

Data Processing

257 Preprocessing

Our first step in the preprocessing is to remove the instrument response from the recorded 258 data. After that, we compute power spectral densities (PSD) of the local earthquakes to 259 determine a frequency band that exhibits adequate signal-to-noise ratio. Examples of 260 PSD of the local earthquake for the TE-array are shown in Figure 4. Analyzing the 261 PSDs, we choose the frequency band 1-5 Hz for further seismic processing. We set the 262 high end of the band at 5 Hz due to the presence of irregular noise around 8 Hz (see 263 Figure 4), which is masking the signals from weaker earthquakes. The nature of this 264 noise is not clear. The stations are away from continuous anthropogenic sources, so 265 this could be excluded as main contributor. Since this noise is almost continuously seen 266 over the records in MalARRgue, it might be connected to the wave action in the nearby 267 lake Llancanelo (Figure 1), but possibly also with deeper activity below the volcanic 268 cones in the vicinity of the array. The noise, which is also continuously seen around 269 0.3 Hz, likewise to be due to the double-frequency microseisms. In principle, one can 270 use higher frequency (if available) for LEPC SI to obtain images of shallower structures, 271 e.g., at basin scale. For speeding up the computations, after the band-pass filtering, we 272 downsample the data to 0.05 s (Nyquist frequency of 10 Hz) from the original sampling 273 of 0.01 s (Nyquist frequency of 50 Hz). 274

The useful window length of the coda of the *P*-wave phase is explained in Figure 5 275 as a function of the epicentral distance. To calculate the times in Figure 5, we use the 276 regional velocity model of Farías et al. (2010) down to 110 km and ak135 (Kennett et 277 al., 1995) deeper than that. In order to only extract the P-wave coda without the direct 278 wave that usually brings strong directivity in the SI results, we refer to the scaling re-279 lation between the moment magnitude, $M_{\rm W}$, and the source duration of the earthquakes 280 (Kanamori and Brodsky, 2004) assuming that M_W is proportional to M_b for our magni-281 tude range (Atkinson and Boore, 1987). Thus, our coda-waves extraction window starts 282 at the time obtained from the summation of the time of the expected P-phase arrival and 283 the expected time length of the STF. 284

For the local earthquakes ($2^{\circ} \le$ epicentral distances $\le 6^{\circ}$), surface waves are expected to arrive almost simultaneously with the *S*-wave phase onset or later (Kennett et al., 1995). To make sure that the coda does not contain surface waves related to the earthquake, our coda-wave extraction window terminates a few seconds before the observed *S*-wave phase onset.

With the above window-length selection criteria, the coda duration is shorter for some 290 earthquakes, but still we have sufficient coda duration (e.g., 15-70 s) for the subsurface 291 imaging. An example of the coda extraction is shown in Figure 6. For subsequent seismic 292 processing, we use only the P-wave coda (the blue window) extracted from the vertical 293 component. It is difficult to estimate how much converted S-wave phases are present 294 within the P-wave coda, but they most probably are present. Especially, SV-waves are 295 expected to be present on the vertical component we use. In this study, we assume that 296 the SV-waves are not dominantly recorded for deeper earthquakes (e.g., 50-100 km) due 297 to their small slowness. For shallower earthquakes (e.g., 0-50 km), the SV-waves can 298 be recorded with spatial aliasing due to the larger ray parameter compared to the ray 299 parameter for P-waves. However, the crosscorrelation and summation process should 300 suppress such aliasing effects, emphasizing the reflection responses of the structures. 301

Note that the transverse component in Figure 6 is displayed only for the purpose of data
 comparison with the vertical component.

After extracting the P-wave coda from each selected local earthquake, we interpolate missing traces at certain stations (e.g., due to technical problems in the acquisition) using their two closest neighboring station records using linear interpolation. For example, if TE10 has a missing trace, we interpolate it only when TE09 and TE11 have non-missing traces for that time. In Figure 7, we show the number of interpolated traces (what we also call events).

310 LEPC SI Applications

311 Crosscorrelation and Crosscoherence Processing

We apply crosscorrelation to the preprocessed data of the T-array from MalARRgue after 312 applying amplitude normalization per coda-wave window per station. The normalization 313 is used to bring per station the correlation results from each local earthquake to a compa-314 rable amplitude and thus to let each correlation have the same weight in the summation 315 over the earthquakes. We test utilization of energy normalization, normalization by the 316 maximum amplitude, and normalization by the maximum amplitude followed by spectral 317 whitening. In Figures 8b-d, we show the three respective results obtained from autocor-318 relation, which represent retrieved zero-offset traces. In Figure 8a, we show the retrieved 319 zero-offset trace obtained without any normalization. As can be seen from Figures 8a-c, 320 there is no significant difference between the results with and without normalizations, im-321 plying that for the earthquakes we choose, the recordings from the different earthquakes 322 have comparable amplitudes in the 1-5 Hz frequency band. Nevertheless, we can notice 323 small differences among the results, so it is better to use normalization before correla-324 tion given its numerical robustness. In Figure 8e, we show the retrieved zero-offset trace 325 obtained from autocoherence. In Figure 8d, we show for completeness of comparison an-326 other correlation result obtained after energy normalization and spectral whitening. The 327

whitening was performed using a running window of 0.025 Hz width. Note that energy 328 normalization followed by spectral whitening makes the result retrieved by correlation 329 (Figure 8d) close to the one retrieved by coherence (Figure 8e). This is because normal-330 ization and spectral whitening mathematically approximates coherence. In this study, we 331 use crosscorrelation and crosscoherence. For retrieval using crosscorrelation, we choose 332 to use preprocessing by energy normalization without spectral whitening (as in Figure 333 8b), so that we could see clear differences between the results from crosscorrelation and 334 those from crosscoherence. 335

Figures 9a and 9d show retrieved common-source gathers (at positive and negative 336 times) obtained using crosscorrelation for a virtual source at TN11 (the middle station 337 in the TN-array) and TE07 (the middle station in the TE-array), respectively. It can 338 be seen that the common-source gathers exhibit asymmetrically retrieved events with 339 respect to two-way traveltime 0 s, indicating that the coda we use is not illuminating the 340 stations equally from all directions. Even though Mayeda et al. (2007), Baltay et al. 341 (2010), and Abercrombie (2013) assumed apparent weak to no directivity of the coda, 342 i.e., isotropic energy flux, due to the expected averaging out of radiation pattern of the 343 earthquake, Paul et al. (2005) and Emoto et al. (2015) found that the energy flux of 344 the coda is not isotropic. In the case that the coda has no directivity, the causal and 345 acausal parts of the common-source gathers obtained from crosscorrelation would result 346 in a purely symmetric gather. When the coda has directivity, the common-source gather 347 would exhibit asymmetry as shown in Figure 9d. 348

A possible explanation of the directivity in the coda, which is most likely the case 349 with our data as well, is that it is associated with the direct-wave passages (e.g., Emoto 350 et al., 2015). Emoto et al. (2015) discussed that the coda consists of forward scattered 351 waves (early coda), which have directivity, and multiply scattered waves (later coda), 352 which have no directivity. 353

354

For the results retrieved from SI by crosscorrelation and crosscoherence, we correct

for the asymmetric results (Figures 9a and 9d) by combining part of the positive and 355 parts of the negative times as follows. To obtain a final retrieved common-source gather, 356 we use the acausal part of the retrieved result for traces to the west of the virtual-source 357 position, reverse this part in time, and concatenate it to the causal part of the retrieved 358 result for traces to the east of the virtual-source position (Figures 9b and 9e). This pro-359 cessing is strictly valid for horizontally layered medium. In our case, since we rely on 360 secondary scattering, we can still use this processing provided that the scattering results 361 in the illumination of the array mainly from the west of the array and that the structures 362 below the array are not complex. 363

For the next processing step, we apply a deterministic spiking deconvolution to re-364 move the STF of the retrieved virtual source from each of the retrieved common-source 365 gathers. The deterministic spiking deconvolution is a technique that compress the STF 366 (e.g., known from observation) using the least-squares method. The STF are estimated 367 from the retrieved zero-offset traces at each virtual-source position by extracting a time-368 window around time 0 s (Figure 10). Following the conventional seismic processing, we 369 mute the first breaks and all the events above them from the common-source gathers for 370 the both TN- and TE-array as shown in Figure 11. Our estimates of the first breaks are 371 about 3400 m/s (a constant velocity) for both arrays. After that, we re-sort the traces into 372 CMP gathers and apply normal moveout velocity analysis to the data using semblances. 373 In Figure 12, two examples of velocity semblance are shown with the regional velocity 374 model by Farías et al. (2010) indicated by the dashed magenta lines. There is a good cor-375 respondence between the regional model and peaks in the middle part of the semblance. 376 For example, the bright spots in the semblance around 10-11 s (the left panels in Figure 377 12) correspond to the range of the possible Moho velocity in Farías et al. (2010). In this 378 study, though, we use for normal-moveout correction and migration the regional velocity 379 model from Farías et al. (2010) because this simplifies the interpretation during the com-380 parison of the current result with our previous result from application of global-phase SI 381

³⁸² (Nishitsuji et al., 2016). The global-phase SI is an autocorrelation SI that uses global
³⁸³ phases (e.g., *PKiKP*).

After obtaining stacked sections along both arrays we apply predictive deconvolution 384 to suppress possible multiples from the top basement using the estimated depth of the top 385 of basement beneath MalARRgue (Nishitsuji et al., 2014). Finally, we apply Kirchhoff 386 post-stack time migration (KTM; Yilmaz, 1987) to move dipping structures to their true 387 location in the model. As a final processing step, we apply lateral regularization in the 388 horizontal direction to obtain better imaging in terms of structural interpretation. For the 389 lateral regularization, we use smoothed discretized splines determined by the generalized 390 cross-validation (Garcia, 2010). The stacked sections before and after the mentioned 391 processing (predictive deconvolution, KTM, and lateral regularization) for the TN- and 392 TE-array are shown in Figures 13a,b and 14a,b, respectively. 393

The seismic processing of the results retrieved from SI by crosscoherence is the same as for the results retrieved by crosscorrelation, except for the step of applying spiking deconvolution of the STF, which is not needed. The processed stacked section obtained from SI by crosscoherence are displayed in Figures 13c and 14c. For Figures 13c and 14c, we select the results obtained using a stabilization factor of 1 % of the maximum in the amplitude spectrum. In our case, we did not see significant differences when using stabilization factors between 1 % and 5 %.

401 MDD Processing

The data processing for application of SI by MDD differs only in a few steps from the other two LEPC (crosscorrelation and crosscoherence), interferometric applications. Due to the fact that MDD intrinsically deconvolves for the STF of the earthquake sources and compensates for directivity in the illumination, neither spiking deconvolution for the STF of the retrieved virtual source nor selective utilization of parts of the causal and acausal times are needed. Instead, it is necessary to obtain the estimated PSF for solving

the inverse problem of the approximated MDD in equation (11). In Figures 9c and 9f, we 408 show two examples of PSFs extracted (cut away with tapered edges) from the retrieved 409 crosscorrelation results in Figures 9a and 9d, respectively. We extracted the PSF with 410 a butterfly-shaped window around t = 0 and narrowest for $\mathbf{x}_A = \mathbf{x}_B$. It aims to include 411 events obtained from the crosscorrelation between waves that are recorded at the surface 412 as direct waves from secondary sources in the subsurface (the scatterers and reflectors). 413 Note that the approximated PSFs are shown after amplitude normalization among the 414 stations for the purpose of displaying only; we do not use amplitude normalization for 415 the actual MDD processing. The time window for the PSF is based on the velocity used 416 for the first-break muting in Figure 12. 417

We apply SI by MDD to the LEPC data using the truncated SVD approach to stabilize 418 the inversion. We process the two lines separately - we retrieve virtual-source response 419 along the TN-array using the events recorded by and interpolated along the TN-array; 420 we retrieve virtual-source response along the TE-array using the events recorded by and 421 interpolated along the TE-array. As can be seen from Figure 7, the number of earthquakes 422 for each station per subarray is different. For example, for the TE-array, the number of 423 interpolated events per station is between 200 and 210. This means that several PSFs 424 for the TE-array contain zeros for the matrix inversion. However, we expect that the 425 illumination compensation for the TE-array from the used 210 events will be affected 426 only to a small degree by the zeros in the PSFs due to the random distribution of the 427 zeros. The same can be said for the TN-array as well, but in its case the number of 428 interpolated events per station is around 115 (except for TN02). After the SVD, we 429 truncate singular values with amplitudes with a threshold value of 10 % of the maximum 430 singular value. The singular values under the threshold are considered negligible to 431 retrieve reflection-data estimates. Figure B1 is available in Appendix B that shows the 432 singular values we truncate. The discarded singular values would largely contribute to 433 the ill-posedness of equation (11). In Figures 15a and 15b we show the obtained MDD 434

results in the f-x domain for virtual shots at TN11 and TE07, respectively. We also test
application of SI by MDD using the damped least-squares stabilization with a constant
stabilization factor for all frequencies, but the results are not as well stabilized as the
ones using the truncated SVD scheme (Figure 15).

Results and Interpretation

In Figures 16 and 17, we show the LEPC SI results for the TN- and TE-array, respec-440 tively, obtained by MDD using the truncated SVD; we compare these results to the re-441 sults obtained by global-phase SI by Nishitsuji et al. (2016) who used frequency band 442 0.3-1 Hz. We design the processing parameters for the basement predictive deconvolu-443 tion based on the estimated two-way traveltime of the basement multiples (Nishitsuji et 444 al., 2014). For comparison purposes, we use the same processing parameters of KTM 445 for both of the LEPC SI and the global-phase SI results. The reflection imaging ex-446 hibits more details than the results from the global-phase SI. The bifurcated Moho and 447 the magma chamber indicated in Figures 16 and 17 are after Gilbert et al. (2006). The 448 gray shades in Figures 16 and 17 indicate the offset where the CMP fold numbers are less 449 than or equal to 5; we do not interpret the results inside the gray shaded areas as we deem 450 this fold insufficient for imaging. The yellow dashed lines are our structural interpreta-451 tion where the amplitude and phase discontinuities are seen based on the global-phase 452 SI results. We superimpose those interpreted features over the LEPC SI results because 453 it is difficult to tell which features are the artifacts or not in a decisive way. Although 454 one might like to interpret more structures on the LEPC SI results, we only focus on 455 the major features interpreted by the global-phase SI results. Because we would like to 456 keep the correspondence, no horizon interpretations are given for structures shallower 457 than about 7-seconds two-way traveltime, where the global-phase SI results become un-458 clear (Figures 16b and 17b). The global-phase SI results (Figures 16b and 17b) show the 459 limitation in interpreting shallow structures because the subtraction of the average STF 460

for 10 s unavoidably removes some shallow structures. Note that because LEPC SI has 461 retrieved reflections that resulted in imaging structures below the array, we can conclude 462 that there has been sufficient local scattering below the array. This is also expected from 463 the presence of a line of volcanic cones at the surface crossing the TE-array. Local sec-464 ondary scattering from structures below the array would result in arrivals characterized 465 by small emergence angles at the array; such arrivals will be turned by SI into reflections. 466 As the local earthquakes we use are distanced from the TN- and TE-arrays and the coda 467 window length is limited, if there were little or no local scattering below the array, LEPC 468 SI would not have retrieved reflections. 469

Since all of the LEPC SI results (crosscorrelation, crosscoherence, and MDD) appear 470 in general to be similar (see Figures 13b-d and 14b-d), one might prefer to use for the 471 interpretation of the other LEPC SI results instead the MDD results. However, if we have 472 a limited number of local earthquakes whose back-azimuth coverage is insufficient with 473 respect to the receiver-array, MDD should in theory work better than the other two meth-474 ods (Nakata et al., 2014). This is, because for crosscorrelation and crosscoherence to 475 work, a large number of local earthquakes with sufficiently wide back-azimuth coverage 476 is essential for the effective suppression of the cross-talk (e.g., Snieder, 2004; Snieder et 477 al., 2006). On the other hand, assuming a sufficiently good coverage of the local earth-478 quakes is available but the receiver-array is patchy or irregular, both the crosscorrelation 479 and crosscoherence would work, whereas MDD would be ill-posed because it requires 480 regularly-spaced receivers. As shown in Figures 1 and 2, we have good coverage of 481 the local earthquakes recorded at the exploration-type array. This could be the reason 482 why the LEPC SI results in Figures 13b-d and 14b-d show similar results at our scale of 483 interest. Nevertheless, we decide to select the LEPC SI results based on the MDD by 484 truncated SVD scheme in Figures 16 and 17 rather than the others because we find that 485 a few structural features showing more continuity in space. For instance, a horizontal 486 coherent feature around 8 s in Figure 16 and up-dipping (from west to east direction) 487

structures between 13-15 s in Figure 17 are clearer than the images from the other two methods in Figures 13 and 14. More importantly, the PSFs in Figure 15 are smeared in space and time, which means that the crosscorrelation results in Figures 13 and 14 are biased due to the spatial-temporal blurring effect of the PSF. This is also the reason we select the MDD results in Figures 16 and 17.

Interpreting results from the magnetotelluric method, Burd et al. (2014) (the blue 493 dashed line in Figure 1) recently suggested the presence of a possible shallow astheno-494 spheric plume (e.g., 0-100 km in depth) nearby the Peteroa volcano. The authors in-495 terpreted this shallow plume as possibly connected to the main upwelling plume whose 496 origin would be around the mantle transition zone (410-660 km in depth). Gilbert et al. 497 (2006) showed the receiver-function imaging at roughly 50 km south of MalARRgue, 498 interpreting a possible bifurcation of the Moho with magma chamber in between (Figure 499 5 in Gilbert et al., 2006). The study by Nishitsuji et al. (2016) using the global-phase 500 SI confirmed such Moho bifurcation beneath the array of the MalARRgue. Summing up 501 the above interpretations, one could expect a dynamic tectonic regime rather than a static 502 one in this Andean region. 503

As we described earlier, the reflection imaging of the LEPC SI results exhibits more 504 details than the results from the global-phase SI. As shown by Abe et al. (2007) and 505 Nishitsuji et al. (2016), the vertical imaging resolution in results retrieved by SI would 506 be at least as high as, but potentially higher, than the ones obtained by the receiver-507 function method. The difference of the resolution in Figures 16 and 17 is largely due 508 to the difference in the used frequency band. Nishitsuji et al. (2016) used global-phase 509 earthquakes with frequency band 0.3-1 Hz, whereas here we use 1-5 Hz for the LEPC 510 SI results. In addition to the correspondence (or similarity) of the structural features (the 511 yellow dashed lines in Figures 16 and 17) between these two different methods, there 512 is another striking feature - a possible major fault in Figure 17a, indicated by the green 513 dashed line, where horizon displacements can be seen. According to the active-seismic 514

reflection profile (the green solid line in Figure 1) and nearby exploration well (LPis x-1) 515 given in Kraemer et al. (2011), deep basement thrust faults, which are reverse faults (see 516 Figure 8a in Kraemer et al., 2011), are expected to exist in this region as a typical feature 517 of foredeep basins (DeCelles and Giles, 1996). Such thrust faults can also be seen in 518 Gimbiagi et al. (2009) and Giambiagi et al. (2012) in their Figures 7b-c and 2 (e.g., 519 cross-section H), respectively. Because the reverse faults beneath LPis x-1 are thought 520 to be dipping to the west, identifying such faults below the TE-array (Figure 17a), but 521 not below the TN-array (Figure 16a) is logical. Thus, we interpret the feature indicated 522 by the green dashed line in Figure 17a as possibly corresponding to one of those deep 523 thrusts. 524

The blue ellipses in Figure 17 indicate zones where dimmed-amplitude portions can 525 be seen in both the LEPC SI (Figure 17a) and global-phase SI results (Figure 17b). Since 526 both independent methods use acoustic SI approaches, such dimming features might 527 indicate weaker reflection responses in comparison with the other zones. Referring to 528 the previous studies in this region, such weaker reflectivity might be due to the presence 529 of the shallow asthenospheric plume that has been interpreted by Burd et al. (2014). 530 Otherwise, such dimmed amplitudes might be indicative of partial-melting spots that are 531 only locally present. 532

We also observe that the Moho in the LEPC SI results are not as visually dominant as 533 the ones from the global-phase SI (Nishitsuji et al., 2016) and receiver-function method 534 (Gilbert et al., 2006). This feature could be also found in other high-resolution reflection 535 images by active-seismic sources. For instance, although the reflection results in Singh et 536 al. (2006) and Calvert and McGeary (2013) provided very fine scale of the images (e.g., 537 50 m in depth after Singh et al., 2006), we find that the Moho in their results is somewhat 538 less prominent than in the image from seismic tomography (e.g., Calvert et al., 2011) 539 and the receiver-function method (e.g., Gilbert et al., 2006). This is probably because 540 the Moho discontinuity is rather better sensed with low frequencies (e.g., ≤ 1 Hz). The 541

active-source reflection in Singh et al. (2006) and LEPC SI in this study used 10-30
Hz and 1-5 Hz, respectively. The seismic tomography in Calvert et al. (2011) and the
global-phase SI in Nishitsuji et al. (2016) used 0.03-0.3 Hz and 0.3-1 Hz, respectively.

Therefore, as long as one's goal is the identification of the Moho, using the lower fre-545 quencies would in general be sufficient. Still, LEPC SI can provide useful information at 546 low acquisition cost when finer structural imaging and/or shallower targets are of interest 547 (e.g., basin imaging if one can use higher frequency). For the current imaging resolu-548 tion, LEPC SI could even assist in enhanced geothermal-system exploration together 549 with magnetotelluric investigations. It is of importance for enhanced geothermal-system 550 explorations to estimate the deeply lying conductive feature and the possible fault sys-551 tem between the thermal source (e.g., Moho) and the target basement (up to 10 km). 552 The success of the method depends on the illumination of the receiver array by the coda 553 wavefield. In our case, the results show illumination directivity at the TE-array for the 554 coda-waves part we use. The main advantage of the method is that it turns the passive 555 recordings into reflection recordings, which is not possible without using SI. Note that 556 active-source measurements in the frequency bandwidth we use in this study are not al-557 ways available. In this case, LEPC SI might complement the low-frequency bandwidth 558 and would be a useful alternative approach. 559

560 Conclusions

We presented seismic interferometry for P-wave coda from local earthquakes (LEPC SI) in order to obtain crustal-scale reflection imaging without active sources. We applied LEPC SI with a linear array in the Malargüe region, Argentina, where a part of the Neuquén basin exists underneath. We compared SI by crosscorrelation, crosscoherence, and MDD, each followed by standard seismic processing from exploration seismology. For the MDD method, we found the truncated SVD scheme gave a more stable solution of the matrix inversion than the one by damped least-squares. This MDD result provided us slightly better structural imaging at our scale of interest among all LEPC SI approaches we investigated. We also interpreted not only the deep thrust fault but also possible melting zones that are previously suggested by active-seismic (including exploration well) as well as magnetotelluric surveys. Depending on the frequency-bandwidth, the availability of the local earthquakes, and the spatial sampling of receivers, LEPC SI has a potential to reveal not only the crustal-scale structure but also lithospheric-scale or basin-scale structures.

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593 Appendix A

594

⁵⁹⁵ Approximated Multidimensional Deconvolution (MDD)

⁵⁹⁶ Here, we show the derivation to obtain the approximate expression for seismic inter-⁵⁹⁷ ferometry (SI) by MDD - equation (5) in the main text. First, we define the following ⁵⁹⁸ relation in the frequency domain ω :

$$\bar{v}_{z}(\mathbf{x}_{B},\boldsymbol{\omega}) = \bar{v}_{z}^{d}(\mathbf{x}_{B},\boldsymbol{\omega}) + \bar{v}_{z}^{c}(\mathbf{x}_{B},\boldsymbol{\omega}), \tag{1}$$

where $\bar{v}_z(\mathbf{x}_B, \boldsymbol{\omega})$ is the vertical component (*z*) of the particle velocity vector in the absence of a free surface at the receiver \mathbf{x}_B for a local earthquake in the subsurface, $\bar{v}_z^d(\mathbf{x}_B, \boldsymbol{\omega})$ represents only the direct arrival, and $\bar{v}_z^c(\mathbf{x}_B, \boldsymbol{\omega})$ represents the coda i.e., the scattering between inhomogeneities inside the medium. For the situation where there is a free surface at the receiver level, we also define the following relation:

$$v_z(\mathbf{x}_B, \boldsymbol{\omega}) = v_z^d(\mathbf{x}_B, \boldsymbol{\omega}) + v_z^c(\mathbf{x}_B, \boldsymbol{\omega}),$$
(2)

which is the free-surface counterpart of equation (A-1). Note that $v_z^c(\mathbf{x}_B, \boldsymbol{\omega})$ is the coda wavefield we actually observe (see the light blue shades in Figure 6). Taking into account the fact that $v_z^d(\mathbf{x}_B, \boldsymbol{\omega}) = 2\bar{v}_z^d(\mathbf{x}_B, \boldsymbol{\omega})$, equation (A-2) can be rewritten as

$$v_z(\mathbf{x}_B, \boldsymbol{\omega}) = 2\bar{v}_z^d(\mathbf{x}_B, \boldsymbol{\omega}) + v_z^c(\mathbf{x}_B, \boldsymbol{\omega}).$$
(3)

⁶⁰⁷ Using equations (A-1) and (A-3), we can write for the scattered field

$$v_z^{scatt}(\mathbf{x}_B, \boldsymbol{\omega}) = v_z(\mathbf{x}_B, \boldsymbol{\omega}) - 2\bar{v}_z(\mathbf{x}_B, \boldsymbol{\omega}) = v_z^c(\mathbf{x}_B, \boldsymbol{\omega}) - 2\bar{v}_z^c(\mathbf{x}_B, \boldsymbol{\omega}).$$
(4)

⁶⁰⁸ Here, we recall equation (63) in Wapenaar et al. (2011):

$$v_{z}^{scatt}(\mathbf{x}_{B},\boldsymbol{\omega}) = A \iint_{\partial D_{0}} G_{z,z}^{scatt}(\mathbf{x}_{B},\mathbf{x},\boldsymbol{\omega}) \bar{v}_{z}(\mathbf{x},\boldsymbol{\omega}) d^{2}\mathbf{x},$$
(5)

where $G_{z,z}^{scatt}$ is the scattered Green's function and *A* is an amplitude-scaling factor due to the approximation that $\bar{v}_z(\mathbf{x}, \boldsymbol{\omega})$ under the integral is proportional to the pressure measurement. The integral in equation (A-5) is taken along the receiver positions (Earth's surface ∂D_0). Substituting equations (A-1) and (A-4) into equation (A-5), we get

$$v_{z}^{c}(\mathbf{x}_{B},\boldsymbol{\omega}) - 2\bar{v}_{z}^{c}(\mathbf{x}_{B},\boldsymbol{\omega}) = A \iint_{\partial D_{0}} G_{z,z}^{scatt}(\mathbf{x}_{B},\mathbf{x},\boldsymbol{\omega}) \left\{ \bar{v}_{z}^{d}(\mathbf{x},\boldsymbol{\omega}) + \bar{v}_{z}^{c}(\mathbf{x},\boldsymbol{\omega}) \right\} d^{2}\mathbf{x}.$$
(6)

Multiplying equation (A-6) with $\bar{v}_z^c(\mathbf{x}_A, \boldsymbol{\omega})^*$ and summation over the available sources, we get

$$\sum_{S=1}^{n} \left[v_{z}^{c}(\mathbf{x}_{B}, \boldsymbol{\omega}) \left\{ \bar{v}_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) \right\}^{*} \right] - 2\Gamma(\mathbf{x}_{B}, \mathbf{x}_{A}, \boldsymbol{\omega}) =$$

$$A \iint_{\partial D_{0}} G_{z, z}^{scatt, d}(\mathbf{x}_{B}, \mathbf{x}, \boldsymbol{\omega}) \left[\sum_{S=1}^{n} \left[\bar{v}_{z}^{d}(\mathbf{x}, \boldsymbol{\omega}) \left\{ \bar{v}_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) \right\}^{*} \right] + \Gamma(\mathbf{x}, \mathbf{x}_{A}, \boldsymbol{\omega}) \right] d^{2}\mathbf{x},$$
(7)

where * denotes the complex conjugate and Γ is the point-spread function (PSF, Wapenaar et al., 2011) defined as

$$\Gamma(\mathbf{x}_B, \mathbf{x}_A, \boldsymbol{\omega}) = \sum_{S=1}^n \left[\bar{v}_z^c(\mathbf{x}_B, \boldsymbol{\omega}) \left\{ \bar{v}_z^c(\mathbf{x}_A, \boldsymbol{\omega}) \right\}^* \right].$$
(8)

617 Equation (A-7) can be also written as

$$\sum_{S=1}^{n} \left[v_{z}^{c}(\mathbf{x}_{B}, \boldsymbol{\omega}) \left\{ v_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) \right\}^{*} \right] - 2\Gamma(\mathbf{x}_{B}, \mathbf{x}_{A}, \boldsymbol{\omega}) + \sum_{S=1}^{n} \left[v_{z}^{c}(\mathbf{x}_{B}, \boldsymbol{\omega}) \left[\left\{ \bar{v}_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) - v_{z}^{c}(\mathbf{x}_{A}, \boldsymbol{\omega}) \right\}^{*} \right] \right] -$$

$$(9)$$

$$A \iint_{\partial D_0} G_{z,z}^{scatt,d}(\mathbf{x}_B, \mathbf{x}, \boldsymbol{\omega}) \sum_{S=1}^n \left[\bar{v}_z^d(\mathbf{x}, \boldsymbol{\omega}) \left\{ \bar{v}_z^c(\mathbf{x}_A, \boldsymbol{\omega}) \right\}^* \right] d^2 \mathbf{x} = A \iint_{\partial D_0} G_{z,z}^{scatt,d}(\mathbf{x}_B, \mathbf{x}, \boldsymbol{\omega}) \Gamma(\mathbf{x}, \mathbf{x}_A, \boldsymbol{\omega}) d^2 \mathbf{x}$$

The third and fourth terms in the left-hand side of equation (A-9) retrieve events that 618 are already retrieved by the first term in the left-hand side. Thus, the third and fourth 619 terms can be seen as amplitude corrections to the events retrieved by the first term. If 620 we neglect them to obtain equation (5), we will not obtain correct amplitudes in the left-621 hand side of equation (A-9) and we will introduce artifacts. Still, the MDD of the first 622 two terms in the left-hand side by Γ will result in the compensation of the result retrieved 623 from SI by crosscorrelation for inhomogeneous illumination. Furthermore, as Γ cannot 624 be obtained directly, we approximate it by only the dominant arrivals in the result from 625 SI by crosscorrelation (see for examples Figures 9c and 9f). 626

627 Appendix B

⁶²⁸ Truncated Singular-Value Decomposition (SVD)

⁶²⁹ In Figure B1, we show the truncated singular values for the TN- and TE-array.

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Figure Captions 852

Figure 1.: 853

Distribution map of the local earthquakes ($2^{\circ} \leq$ epicentral distance $\leq 6^{\circ}$) used in our 854 study. The 115 circles and 210 stars show the locations of the earthquakes recorded by 855 the TN- (the white triangles) and TE-array (black triangles) parts of the MalARRgue 856 array; the earthquakes are color-scaled as a function of their focal depth. The volcano 857 symbol indicates the location of the Peteroa volcano. The green outline indicates an 858 approximated location of the Neuquén basin (derived from Mescua et al., 2013). The 859 blue polygon indicates an approximated location of the lake Llancanelo. The magenta 860 solid and blue dashed lines indicate the location at which active-source seismic and an 861

magnetotelluric sections are obtained by Kraemer et al. (2011) and Burd et al. (2014),

respectively, which are discussed in Results and Interpretation of this paper.

Figure 2.:

⁸⁶⁵ Distribution of the back azimuth of the local earthquakes recorded by the TN-array and ⁸⁶⁶ TE-array.

Figure 3.:

⁸⁶⁸ A schematic illustration of equation (5).

Figure 4.:

⁸⁷⁰ Power spectral densities for a local earthquake with M_b 4.0. The power spectral densities ⁸⁷¹ are computed for the TE-array.

Figure 5.:

⁸⁷³ Used window length of the P-wave coda as a function of epicentral distance. The trav-⁸⁷⁴ eltime curves are drawn using the regional velocity model from Farías et al. (2010) for ⁸⁷⁵ depths down to 110 km and the ak135 model (Kennett et al., 1995) for greater depths. ⁸⁷⁶ Light gray rectangular indicates the used epicentral distance, while the dark gray area ⁸⁷⁷ indicates the the window lengths to be extracted for an earthquake characterized by a ⁸⁷⁸ source depth of 100 km.

Figure 6.:

An example recording of a local earthquake on the vertical (left panel) and transverse component (right panel) of the stations from the TN-array. The areas highlighted in orange indicate the direct P-wave arrival from the local earthquake, while the green lines Page 39 of 64

indicates the S-wave onset. The area highlighted in light blue indicates the P-wave coda
to be extracted.

Figure 7.:

Number of original and interpolated events for each of the TN- and TE-array stations.

Figure 8.:

Retrieved zero-offset trace at station TE07 of the TE-array obtained using (a) autocorrelation without amplitude normalization, (b) energy normalization before autocorrelation,
(c) maximum-amplitude normalization before autocorrelation, (d) maximum-amplitude
normalization followed by spectral whitening before autocorrelation, and (e) autocoherence.

Figure 9.:

Retrieved common-source gather for a virtual source at (a) station TN11 of the TN-array before flipping, (b) after flipping the negative times, (d) station TE07 of the TE-array before flipping, (e) after flipping the negative times. The PSFs of (c) and (f) are extracted from the gray shaded areas in figures (a) and (d), respectively. The results are retrieved using correlation and after summation over the used local earthquakes.

Figure 10.:

Retrieved zero-offset traces using all events from (a) the TN-array (c) the TE-array. (b)
and (d) are estimated source time functions from the zero-offset traces in (a) and (c),
respectively, after application of time windowing.

903 Figure 11.:

A comparison of common-source gather: for station TN11 of the TN-array (a) before spiking deconvolution and muting the first breaks and (b) after spiking deconvolution and muting the first breaks and above; for station TE07 of the TE-array (c) before spiking deconvolution and muting the first breaks and (d) after spiking deconvolution and muting the first breaks and above.

909 Figure 12.:

Examples of velocity semblance of common midpoint gather for station TN11 of the
TN-array (left panels) and station TE07 of the TE-array (right panels) with the regional
velocity model of Farías et al. (2010) denoted by the magenta dashed lines.

Figure 13.:

A comparison of LEPC SI results for the TN-array using different SI theories: (a) crosscorrelation after basement deconvolution without KTM; (b) same as (a) but with KTM;
(c) same as (b) but for crosscoherence; (d) same as (b) but for MDD using the truncated
SVD scheme.

Figure 14.:

⁹¹⁹ Same as Figure 13 but for the TE-array.

920 Figure 15.:

⁹²¹ Obtained MDD results using the damped least-square and the truncated SVD scheme in ⁹²² the f-x domain for virtual shots at: (a) station TN11; (b) station TE07 in comparison with ⁹²³ the crosscorrelation (Figures 9a and 9d) and the PSF (Figures 9c and 9f).

924 Figure 16.:

Summarized interpretation on the crustal-scale reflection images beneath the TN-array 925 obtained from: (a) LEPC SI (1-5 Hz) with the truncated MDD scheme; (b) global-phase 926 SI (0.3-1 Hz) modified from Nishitsuji et al. (2016). The interpretation of the Moho 927 and the magma chamber are after Gilbert et al. (2006) and Nishitsuji et al. (2016). The 928 yellow dashed lines indicate our structural interpretation that can be traced for both the 929 MDD and the global-phase SI results. The gray shades are the offset where the CMP 930 folds are less than equal to 5. The cyan ellipses indicate the amplitude pockets that can 931 be commonly interpretable between the MDD and the global-phase SI results. 932

Figure 17.:

Same as Figure 16, but for the TE-array. The blue ellipses indicate the dimming imaging
parts that can be commonly interpretable between the MDD and the global-phase SI
results. The green dashed line indicates our fault interpretation where the major deep
thrust fault can be traced.

Figure B1.:

Truncated singular values for the TN- and TE-array. The white lines show where 10 %
of the maximum singular value lie. We truncate the lower amplitude within the white
line for MDD.

Table 1. Loca	l earthquakes u	used in this :	study	Der	M America ID
(month/d/yr)	(hr:min:s)	(°N)	Con. (°E)	(km)	M _b Array ID
01/17/12	15:09:02	-30.814	-71.214	75	3.9 TE
01/17/12 01/18/12	3:17:16	-31.589	-71.789	50	4.7 TE
01/18/12	11:33:03	-31.798	-68.397	10	4.6 TE
01/18/12 01/19/12	3:58:17	-31.665	-68.164	19	5.0 TE 4.6 TE
01/19/12	7:10:20	-31.635	-71.898	38	4.9 TE
01/19/12 01/20/12	8:22:49 5:26:33	-32.193 -31.273	-71.213	87 49	3.9 TE 3.4 TE
01/20/12	6:05:41	-31.982	-68.843	117	3.5 TE
01/23/12 01/23/12	16:04:53 16:29:30	-36.455 -36.380	-73.182 -73.267	24 25	5.8 TE 4.0 TE
01/23/12	16:30:55	-36.457	-73.023	25	3.9 TE
01/23/12 01/23/12	17:22:06	-36.344 -36.472	-73.443	4	5.0 TE 4 4 TE
01/23/12	21:55:15	-36.364	-73.304	28	5.0 TE
01/24/12 01/24/12	1:45:28	-34.525 -31.651	-71.949 -67.078	40 150	4.5 TE 3 7 TE
01/24/12	17:07:49	-31.760	-72.416	9	4.6 TE
01/26/12	2:23:10	-29.325	-68.081 -72.498	118	3.6 TE 3.9 TE
01/27/12	2:24:10	-34.708	-71.824	17	4.1 TE
01/31/12	13:08:00	-33.817	-72.135	12	4.6 TE
01/31/12	21:24:05	-32.788	-71.712	39	4.0 TE 3.3 TE
02/01/12	2:43:19	-32.678	-71.336	52	4.8 TE
02/01/12 02/01/12	2:43:25 2:43:27	-32.950 -33.053	-70.256	40 44	4.7 TE 4.7 TE
02/04/12	10:12:55	-38.551	-74.433	35	4.2 TE
02/05/12 02/07/12	3:42:08	-36.690 -37.902	-73.243	38	4.7 TE 4 9 TE
02/10/12	2:05:22	-30.791	-71.304	57	4.9 TE
02/10/12	4:07:51	-30.735	-71.222	38	3.8 TE
02/11/12 02/11/12	2:58:17 8:41:14	-37.456 -36.851	-72.860	20 40	5.6 TE 4.0 TE
02/14/12	5:58:02	-32.010	-70.034	103	4.5 TE
02/14/12 02/15/12	8:19:27 7:36:14	-34.948 -34.665	-72.958	52	4.5 TE 4.4 TE
02/15/12	14:08:47	-35.209	-73.926	19	4.7 TE
02/16/12	22:01:46	-37.255	-74.245	5	4.2 TE 4.8 TE
02/17/12	8:01:19	-37.175	-73.646	14	4.8 TE
02/17/12	19:11:23	-37.233	-73.785	35	4.3 TE
02/18/12 02/18/12	3:50:49	-34.547	-72.316	35	4.5 TE 4.0 TE
02/18/12	17:44:48	-32.097	-71.771	18	4.9 TE
02/22/12 02/22/12	15:03:39 22:38:40	-33.089 -34 765	-71.785	33 47	4.5 TE 4.0 TE
03/01/12	6:44:27	-38.331	-73.585	35	4.2 TE
03/01/12	18:41:47	-31.572	-69.273	96 40	4.6 TE
03/03/12	22:12:55	-35.749	-72.800	13	4.9 TE
03/03/12	22:45:40	-35.731	-72.966	10	4.7 TE
03/03/12	23:41:30 23:43:04	-35.528 -35.740	-72.975	10	4.0 TE 4.9 TE
03/09/12	0:43:36	-34.730	-72.781	39	4.3 TE
03/12/12 03/16/12	6:20:12	-34.969 -36.895	-73.596	27	4.9 TE 4.7 TE
03/16/12	23:31:54	-33.606	-72.038	46	4.7 TE
03/17/12 03/21/12	1:36:00 2:41:00	-33.480 -35.789	-72.372	21 67	4.0 TE 4.6 TE
03/23/12	9:25:32	-31.691	-69.025	95	4.3 TE
03/24/12	7:28:33	-33.052	-71.063	69 41	5.0 TE
03/26/12	2:07:41	-34.994	-72.092	35	4.4 TE
03/27/12	2:46:12	-37.002	-73.275	23	4.5 TE
03/30/12	7:12:52	-35.196	-72.187	38	4.7 TE/TN 4.5 TE/TN
03/31/12	21:52:56	-35.267	-72.089	43	4.4 TE/TN
04/01/12 04/03/12	2:11:03	-31.908	-72.757	32	4.9 TE/TN 5.0 TE/TN
04/06/12	1:30:12	-34.766	-71.608	37	3.7 TE
04/06/12 04/06/12	13:25:05 17:11:27	-38.226 -36.926	-75.019	35	4.9 TN 4.7 TE
04/06/12	21:04:54	-35.598	-72.834	13	4.1 TE/TN
04/07/12 04/13/12	19:13:29 6:13:16	-37.408 -35.210	-73.870	44 40	4.4 TE 4 7 TE/TN
04/15/12	18:58:21	-32.385	-71.940	27	4.4 TE/TN
04/16/12 04/17/12	10:34:14 3:50:16	-36.241 -32.625	-73.352	27 29	4.3 TE/TN 6.2 TE/TN
04/17/12	4:03:18	-32.553	-71.366	40	4.9 TE/TN
04/17/12	17:53:57	-33.998	-72.342	11	4.1 TE/TN
04/19/12	1:14:06	-30.868	-71.188	65	4.7 TE/TN
04/21/12	5:14:37	-36.354	-72.709	63	4.0 TE/TN
04/21/12 04/27/12	17:58:24	-38.224	-74.289 -71.901	43	4.7 TE/IN 4.7 TE/TN
04/27/12	18:34:38	-34.722	-71.721	43	4.7 TE/TN
04/28/12 04/30/12	20:46:48 7:39:46	-32.653 -29.868	-71.829	5 37	4.1 1E 5.6 TE/TN
05/01/12	2:43:34	-29.456	-70.770	57	4.6 TN
05/01/12 05/05/12	20:52:14 23:06:53	-30.813 -31.474	-71.935 -69 173	22 110	4.8 TE 4.3 TE/TN
05/10/12	17:11:52	-37.249	-73.914	10	4.4 TE/TN
05/11/12	19:41:21	-32.901	-71.878	13	4.3 TE/TN 4.0 TE/TN
05/12/12	18:15:09	-34.523	-73.269	15	4.7 TE/TN
05/13/12	12:42:50	-32.740	-71.799	12	4.8 TE/TN 4.3 TE
05/16/12 05/16/12	9:02:01	-36.901 -35.528	-70.623	144	4.3 TE
05/17/12	2:34:14	-31.777	-69.530	97	4.4 TE/TN
05/17/12 05/18/12	6:50:54 10:33:12	-32.697 -31.807	-/1.816 -68.348	29 60	4.6 1E/IN 4.4 TE/TN
05/20/12	3:32:00	-30.782	-71.353	48	3.8 TE

05/21/12	5:15:26	-31.263	-68.507	84	4.3 TE/TN
05/21/12	11:13:33	-30.994	-71.648	59	4.4 TE
05/22/12	6:22:01	-32.244	-71.691	31	4.3 TE/TN
05/24/12	19:18:55	-36.912	-70.467	150	5.1 TE

05/51/12	0.77.17	24 225	71 751	20	4.5 TE/TN
0(/01/12	10.10.52	-34.223	-/1./31	10	4.5 TE/IN
06/02/12	21-36-12	-36.174	-08.035	56	4.7 IL 4.1 TE
06/07/12	7:40:54	-31.643	-71 210	36	4.7 TE/TN
06/11/12	9:50:59	-37.072	-73 661	40	4.7 TE/11
06/15/12	5:43:13	-38 188	-74 702	22	4.2 TE/TN
06/18/12	7:46:23	-36.602	-75 280	30	4.7 TE/TN
06/18/12	8:20:04	-33.000	-68 496	23	5.3 TE/TN
06/21/12	9.22.04	-35 523	-72 223	28	4.5 TE/TN
06/23/12	6:39:32	-34 563	-71 919	47	4.2 TE/TN
06/23/12	18:14:21	-31.580	-71.856	42	4.2 TE/IN
06/25/12	13:38:17	-37 970	-74 821	10	4.6 TE/TN
06/26/12	7:09:27	-35 473	-71 676	84	4 5 TE
06/26/12	17:01:37	-37 758	-74 820	35	4.6 TE/TN
06/27/12	13:06:34	-31 701	-67 692	41	4 5 TE
06/27/12	22:04:25	-32.676	-71.722	20	3.9 TE/TN
06/28/12	10:33:17	-36.085	-73.270	30	4.3 TN
06/28/12	11:49:11	-31.447	-66.754	116	4.6 TE/TN
07/04/12	8:33:05	-38.040	-73.288	33	4.7 TE/TN
07/04/12	22:57:16	-37.631	-74.077	21	4.6 TE/TN
07/05/12	5:53:00	-34.494	-72.638	39	3.9 TE/TN
07/07/12	10:52:15	-32.502	-71.600	33	4.8 TE/TN
07/09/12	1:44:27	-35.213	-72.069	50	4.5 TE/TN
07/09/12	12:56:37	-33.061	-68.263	142	4.6 TE/TN
07/09/12	14:24:37	-37.700	-73.870	30	4.3 TE/TN
07/15/12	8:23:25	-33.483	-67.477	200	4.6 TE/TN
07/17/12	22:03:26	-31.298	-71.210	52	4.0 TE
07/30/12	18:49:45	-35.771	-74.163	44	4.8 TE/TN
08/02/12	15:01:32	-31.862	-68.575	20	4.3 TE/TN
08/04/12	13:11:46	-32.835	-69.175	33	4.3 TE/TN
08/04/12	19:05:39	-31.928	-69.358	119	5.0 TE/TN
08/17/12	20:19:54	-35.613	-73.615	20	4.7 TE/TN
08/23/12	19:03:48	-35.776	-73.462	11	4.8 TE/TN
08/24/12	22:30:01	-33.434	-/2.310	42	4./ IE/IN
08/27/12	1:29:45	-31.386	-6/./46	105	4.2 TE/IN
08/29/12	4:17:56	-34.709	-/1./62	22	4.0 1E/1N
08/28/12	8:11:25	-32.418	-/1.169	44	4.8 TE/IN
08/30/12	8:04:40	-37.199	-/3.39/	23	5.0 TE/TN
09/04/12	5:30:17	-32.516	-69.916	112	4.5 TE/IN
09/06/12	18:58:03	-36./19	-/3.408	124	4./ IE/IN 5.1 TE/TN
09/11/12	7:24:27	-31.873	72 860	21	A 6 TE/TN
09/11/12	0:20:58	-38.001	-73.800	120	4.0 TE/IN
09/12/12	9:20:38	-34.638	-72 564	34	4.0 TE/TN
09/15/12	0:50:45	-34.633	-72.004	26	4.5 TE/TN
09/15/12	9:37:18	-32.853	-66 601	36	4.6 TE/TN
09/18/12	3:53:30	-31.893	-69.262	26	4.4 TE/TN
09/20/12	10:07:07	-34.436	-71.951	60	4.5 TE/TN
09/21/12	9:22:26	-32.947	-69.739	101	4.4 TE/TN
09/28/12	3:11:50	-31.430	-67.915	96	4.1 TE/TN
09/28/12	19:21:47	-34.603	-73.369	10	4.3 TE
10/01/12	8:06:29	-30.786	-71.184	56	4.6 TE/TN
10/05/12	8:44:51	-34.899	-71.937	60	4.4 TE/TN
10/06/12	3:18:15	-32.132	-72.107	9	4.6 TE
10/06/12	22:49:38	-32.127	-71.860	7	4.3 TE
10/08/12	13:03:42	-34.654	-73.639	14	4.2 TE/TN
10/09/12	3:30:33	-29.393	-69.211	97	4.8 TE/TN
10/10/12	18:05:02	-34.039	-/1.6/5	33	4.1 TE/IN
	(-34.000	-72.500	32	4.0 TE/TN
10/11/12	4.20.24	22.007	72 442		
10/11/12 10/11/12	4:38:24	-33.996	-72.442	35	4.7 IE/IN
10/11/12 10/11/12 10/11/12	4:38:24 17:22:10 21:36:08	-33.996 -32.865	-72.442 -70.310	35 82 42	4.7 TE/TN 5.5 TE/TN
10/11/12 10/11/12 10/11/12 10/11/12 10/11/12	4:38:24 17:22:10 21:36:08 3:37:30	-33.996 -32.865 -34.011	-72.442 -70.310 -72.483	35 82 43	4.7 TE/TN 5.5 TE/TN 4.2 TE/TN 4.5 TE/TN
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Date, Time, Lat., Lon., Dep. and $\boldsymbol{M}_{\mathrm{W}},$ the moment magnitude, are

provided by USGS (http://earthquake.usgs.gov/earthquakes/). For Array ID, TE and TN indicate TE-array and TN-array, respectively.



Figure 1.: Distribution map of the local earthquakes (2° ≤ epicentral distance ≤ 6°) used in our study. The 115 circles and 210 stars show the locations of the earthquakes recorded by the TN- (the white triangles) and TE-array (black triangles) parts of the MalARRgue array; the earthquakes are color-scaled as a function of their focal depth. The volcano symbol indicates the location of the Peteroa volcano. The green outline indicates an approximated location of the Neuquén basin (derived from Mescua et al., 2013). The blue polygon indicates an approximated location of the lake Llancanelo. The magenta solid and blue dashed lines indicate the location at which active-source seismic and an magnetotelluric sections are obtained by Kraemer et al. (2011) and Burd et al. (2014), respectively, which are discussed in Results and Interpretation of this paper.

225x259mm (300 x 300 DPI)



Figure 2.: Distribution of the back azimuth of the local earthquakes recorded by the TN-array and TE-array. 230×186 mm (300 \times 300 DPI)



Offset





Figure 4.: Power spectral densities for a local earthquake with Mb 4.0. The power spectral densities are computed for the TE-array. 177x317mm (600 x 600 DPI)



Figure 5.: Used window length of the P-wave coda as a function of epicentral distance. The traveltime curves are drawn using the regional velocity model from Farías et al. (2010) for depths down to 110 km and the ak135 model (Kennett et al., 1995) for greater depths. Light gray rectangular indicates the used epicentral distance, while the dark gray area indicates the the window lengths to be extracted for an earthquake characterized by a source depth of 100 km. 190x210mm (300 x 300 DPI)



Figure 6.: An example recording of a local earthquake on the vertical (left panel) and transverse component (right panel) of the stations from the TN-array. The areas highlighted in orange indicate the direct P-wave arrival from the local earthquake, while the green lines indicates the S-wave onset. The area highlighted in light blue indicates the P-wave coda to be extracted.

130x88mm (300 x 300 DPI)



Figure 7.: Number of original and interpolated events for each of the TN- and TE-array stations. 152x138mm (300 x 300 DPI)



Figure 8.: Retrieved zero-offset trace at station TE07 of the TE-array obtained using (a) autocorrelation without amplitude normalization, (b) energy normalization before autocorrelation, (c) maximum-amplitude normalization before autocorrelation, (d) maximum-amplitude normalization followed by spectral whitening before autocorrelation, and (e) autocoherence. 247x174mm (300 x 300 DPI)



Figure 9.: Retrieved common-source gather for a virtual source at (a) station TN11 of the TN-array before flipping, (b) after flipping the negative times, (d) station TE07 of the TE-array before flipping, (e) after flipping the negative times. The PSFs of (c) and (f) are extracted from the gray shaded areas in figures (a) and (d), respectively. The results are retrieved using correlation and after summation over the used local earthquakes.

305x480mm (300 x 300 DPI)



Figure 10.: Retrieved zero-offset traces using all events from (a) the TN-array (c) the TE-array. (b) and (d) are estimated source time functions from the zero-offset traces in (a) and (c), respectively, after application of time windowing. 133x86mm (300 x 300 DPI)



Figure 11.: A comparison of common-source gather: for station TN11 of the TN-array (a) before spiking deconvolution and muting the first breaks and (b) after spiking deconvolution and muting the first breaks and above; for station TE07 of the TE-array (c) before spiking deconvolution and muting the first breaks and (d) after spiking deconvolution and muting the first breaks and above. 129x84mm (300 x 300 DPI)



Figure 12.: Examples of velocity semblance of common midpoint gather for station TN11 of the TN-array (left panels) and station TE07 of the TE-array (right panels) with the regional velocity model of Farías et al. (2010) denoted by the magenta dashed lines. 190x142mm (300 x 300 DPI)



Figure 13.: A comparison of LEPC SI results for the TN-array using different SI theories: (a) crosscorrelation after basement deconvolution without KTM; (b) same as (a) but with KTM; (c) same as (b) but for crosscoherence; (d) same as (b) but for MDD using the truncated SVD scheme. 169x84mm (300 x 300 DPI)



Figure 14.: Same as Figure 13 but for the TE-array. 169x84mm (300 x 300 DPI)



Figure 15.: Obtained MDD results using the damped least-square and the truncated SVD scheme in the f-x domain for virtual shots at: (a) station TN11; (b) station TE07 in comparison with the crosscorrelation (Figures 9a and 9d) and the PSF (Figures 9c and 9f). 249x143mm (300 x 300 DPI)



Figure 15.: Obtained MDD results using the damped least-square and the truncated SVD scheme in the f-x domain for virtual shots at: (a) station TN11; (b) station TE07 in comparison with the crosscorrelation (Figures 9a and 9d) and the PSF (Figures 9c and 9f). 249x143mm (300 x 300 DPI)



Figure 16.: Summarized interpretation on the crustal-scale reflection images beneath the TN-array obtained from: (a) LEPC SI (1-5 Hz) with the truncated MDD scheme; (b) global-phase SI (0.3-1 Hz) modified from Nishitsuji et al. (2016). The interpretation of the Moho and the magma chamber are after Gilbert et al. (2006) and Nishitsuji et al. (2016). The yellow dashed lines indicate our structural interpretation that can be traced for both the MDD and the global-phase SI results. The gray shades are the offset where the CMP folds are less than equal to 5. The cyan ellipses indicate the amplitude pockets that can be commonly interpretable between the MDD and the global-phase SI results.
 167x158mm (300 x 300 DPI)



Figure 17.: Same as Figure 16, but for the TE-array. The blue ellipses indicate the dimming imaging parts that can be commonly interpretable between the MDD and the global-phase SI results. The green dashed line indicates our fault interpretation where the major deep thrust fault can be traced. 167x158mm (300 x 300 DPI)



Figure B1.: Truncated singular values for the TN- and TE-array. The white lines show where 10 % of the maximum singular value lie. We truncate the lower amplitude within the white line for MDD. 141x156mm (300 x 300 DPI)