3D shear-wave velocity model of the crust underneath Llaima volcano, Chile

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Supplementary Material

This supplementary material lists the 49 seismic stations whose ambient-noise records were used to derive the three-dimensional shear-wave velocity model presented in the main manuscript. The stations are grouped by seismic network: Table S1 lists the 25 stations of the temporary XW network deployed around Llaima volcano between January and March 2015; Table S2 lists the 8 stations of the TC network operated by OVDAS-SERNAGEOMIN for real-time monitoring; and Table S3 lists the 16 stations of the 3H network deployed as part of the SAIAS experiment. For each station, the tables give the station code, geographic coordinates (latitude and longitude), altitude, and the sensor and digitizer models. The station distribution is shown in Fig. 1 of the main manuscript.

Table S1: XW network stations.

Station	**Latitude [°]**	**Longitude [°]**	**Altitude [m]**	**Sensor**	**Digitizer**
BAD	-38.644	-71.783	1245	Guralp CMG-3T	Guralp Mk3
BVL	-38.756	-71.793	1478	MCP-120s[1]	MC
CHM	-38.765	-71.586	840	T120P/PA[2]	Taurus
CIN	-38.684	-71.703	1934	T120P/PA	Reftek 130
CTF	-38.764	-71.722	1473	MCP-120s	MC[3]
DTH	-38.746	-71.723	1720	MCP-120s	MC

[1]Nanometrics - Meridian Compact Posthole of 120 seconds
[2]Nanometrics - Trillium 120P/PA
[3]Nanometrics - Meridian Compact

Station	Latitude [°]	Longitude [°]	Altitude [m]	Sensor	Digitizer
GEO	-38.703	-71.698	1933	T120P/PA	Reftek 130
HFH	-38.751	-71.760	1621	MCP-120s	MC
HRD	-38.695	-71.730	3080	MCP-120s	MC
HRS	-38.726	-71.780	1810	MCP-120s	MC
LAG	-38.694	-71.598	998	Guralp CMG-3T	Guralp Mk3
LAH	-38.636	-71.725	1183	Guralp CMG-3T	Guralp Mk2
LST	-38.729	-71.684	1486	MCP-120s	MC
MAG	-38.855	-71.894	501	T120P/PA	Taurus[4]
MDV	-38.900	-71.874	490	T120P/PA	Reftek 130
PAX	-38.820	-71.743	712	Guralp CMG-3T	Guralp Mk3
POW	-38.809	-71.799	777	Guralp CMG-3T	Reftek 130
RAB	-38.895	-71.737	732	T120P/PA	Taurus
RLW	-38.706	-71.764	1975	T120P/PA	Reftek 130
ROD	-38.935	-71.824	821	T120P/PA	Centaur[5]
SCT	-38.673	-71.723	1934	Guralp CMG-40T	Reftek 130
SMM	-38.691	-71.791	1711	Guralp CMG-3T	Guralp Mk2
STM	-38.688	-71.765	1970	T120P/PA	Centaur
TRL	-38.754	-71.646	882	Guralp CMG-3T	Guralp Mk3
WAT	-38.724	-71.657	1027	T120P/PA	Centaur

[4]Nanometrics - Taurus
[5]Nanometrics - Centaur

Table S2: TC network stations

Station	**Latitude [°]**	**Longitude[°]**	**Altitude [m]**	**Sensor**	**Digitizer**
AGU	-38.723	-71.715	2154	T120P/PA	Quanterra Q330
LAV	-38.702	-71.646	1090	T120P/PA	Quanterra Q330
LAJ	-38.755	-71.696	1603	Sercel L4C	Reftek 130B
CRU	-38.709	-71.800	1704	T120P/PA	Quanterra Q330
CON	-38.740	-71.771	1762	Reftek 151-30	Reftek 130B
LLA	-38.781	-71.700	1088	Guralp CMG-6T	Reftek 130B
PAI	-38.874	-71.646	1130	Guralp CMG-40T	Guralp CMG-DM24
ROC	-38.678	-71.683	1720	Reftek 151-30	Reftek 130B

Table S3: 3H network stations.

Station	**Latitude [°]**	**Longitude [°]**	**Altitude [m]**	**Sensor**	**Digitizer**
LB4S	-38.541	-71.257	1118	Mark L4-3D	EarthDataLogger
LB5S	-38.694	-71.330	1172	Mark L4-3D	EarthDataLogger
LB6S	-38.809	-71.282	1141	Mark L4-3D	EarthDataLogger
LL1B	-38.590	-71.801	743	Trillium Compact	EarthDataLogger
LL2B	-38.672	-71.624	1054	Trillium Compact	EarthDataLogger
LL3S	-38.833	-71.638	522	Mark L4-3D	EarthDataLogger
LL4S	-38.873	-71.822	414	Mark L4-3D	EarthDataLogger
LS1B	-38.920	-71.493	1196	Trillium Compact	EarthDataLogger
LS2S	-39.065	-71.720	495	Mark L4-3D	EarthDataLogger
LS3S	-39.117	-71.475	828	Mark L4-3D	EarthDataLogger

Station	Latitude [°]	Longitude [°]	Altitude [m]	Sensor	Digitizer
LS4S	-39.197	-71.854	655	Mark L4-3D	EarthDataLogger
LX2S	-38.234	-71.728	1167	Mark L4-3D	EarthDataLogger
LX3S	-38.434	-71.389	1052	Mark L4-3D	EarthDataLogger
LX4S	-38.463	-71.638	914	Mark L4-3D	EarthDataLogger
LX5S	-38.470	-71.509	1131	Mark L4-3D	EarthDataLogger
LX6S	-38.474	-71.775	635	Mark L4-3D	EarthDataLogger