



*Geochemistry, Geophysics, Geosystems*

Supporting Information for

**Seismic Velocity Structure of Upper Mantle Beneath the Oldest Pacific Seafloor:  
Insights From Finite-Frequency Tomography**

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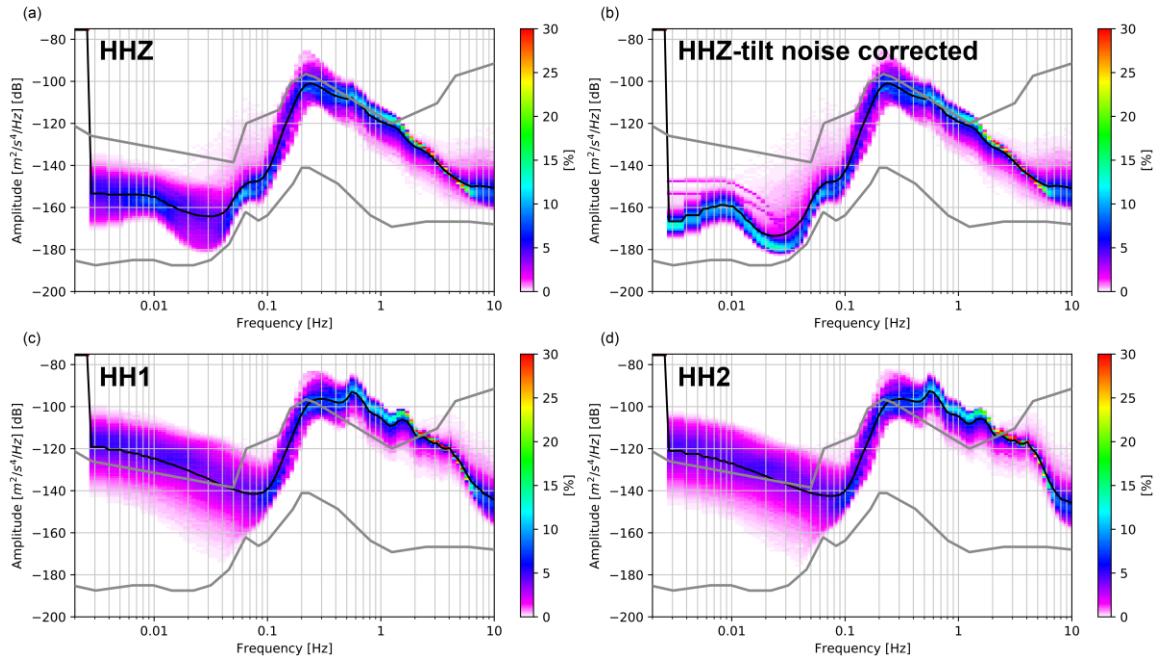
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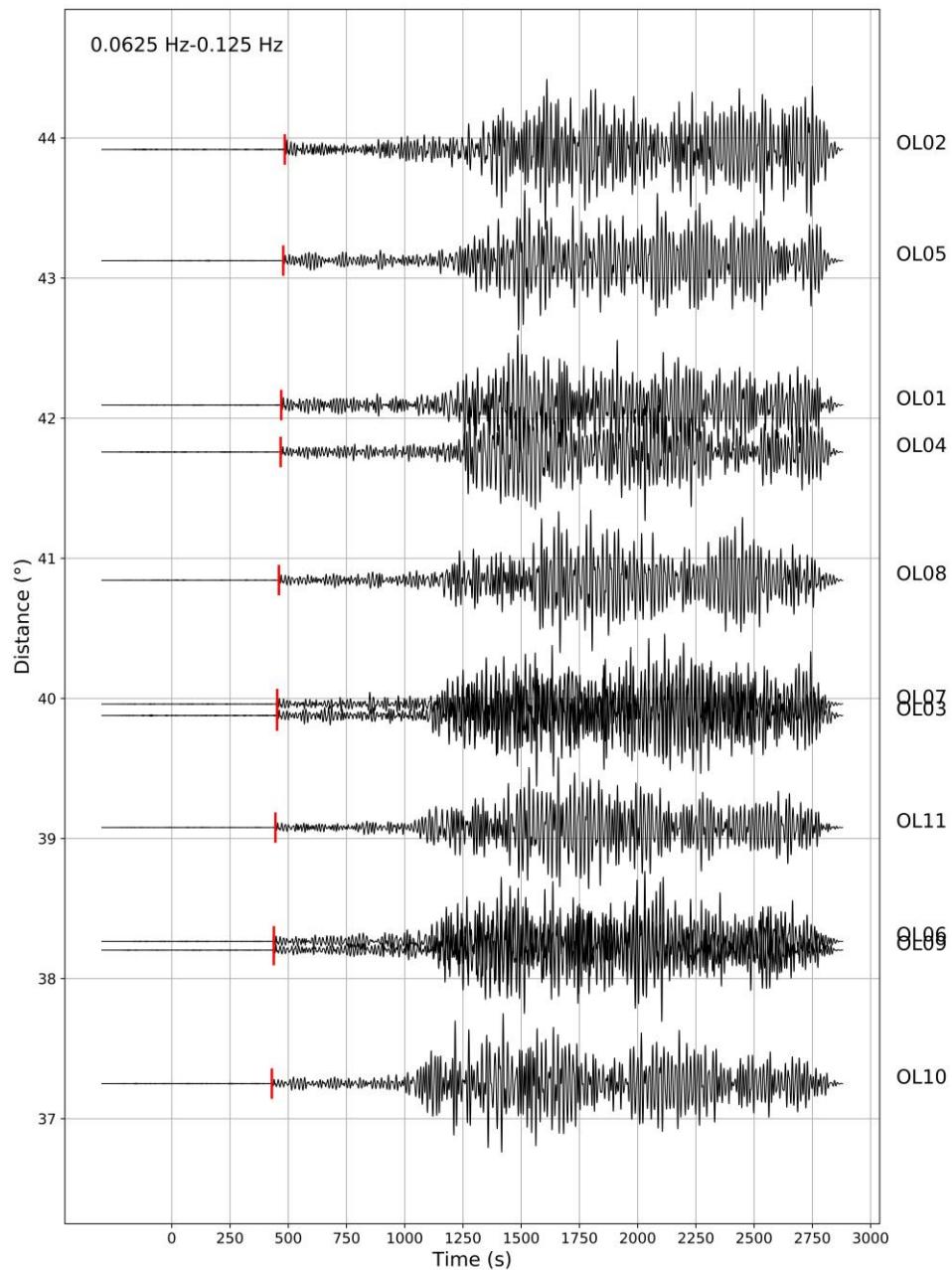
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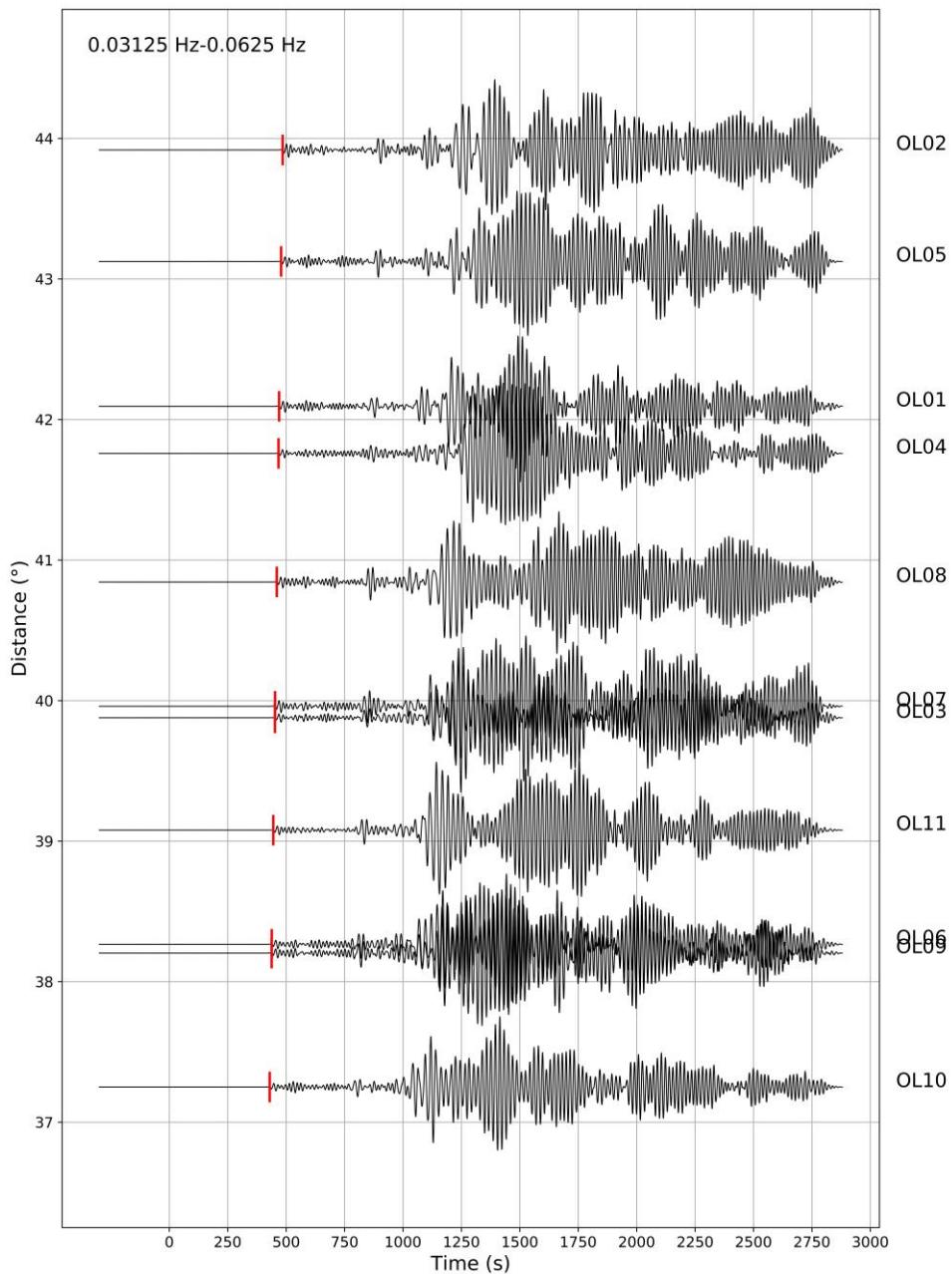
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(a) HF Record Plot for Earthquake 2018/12/20 17:01 Mw 7.3  
Earthquake at latitude: 55.1°, longitude: 164.7°, depth: 16.6 km



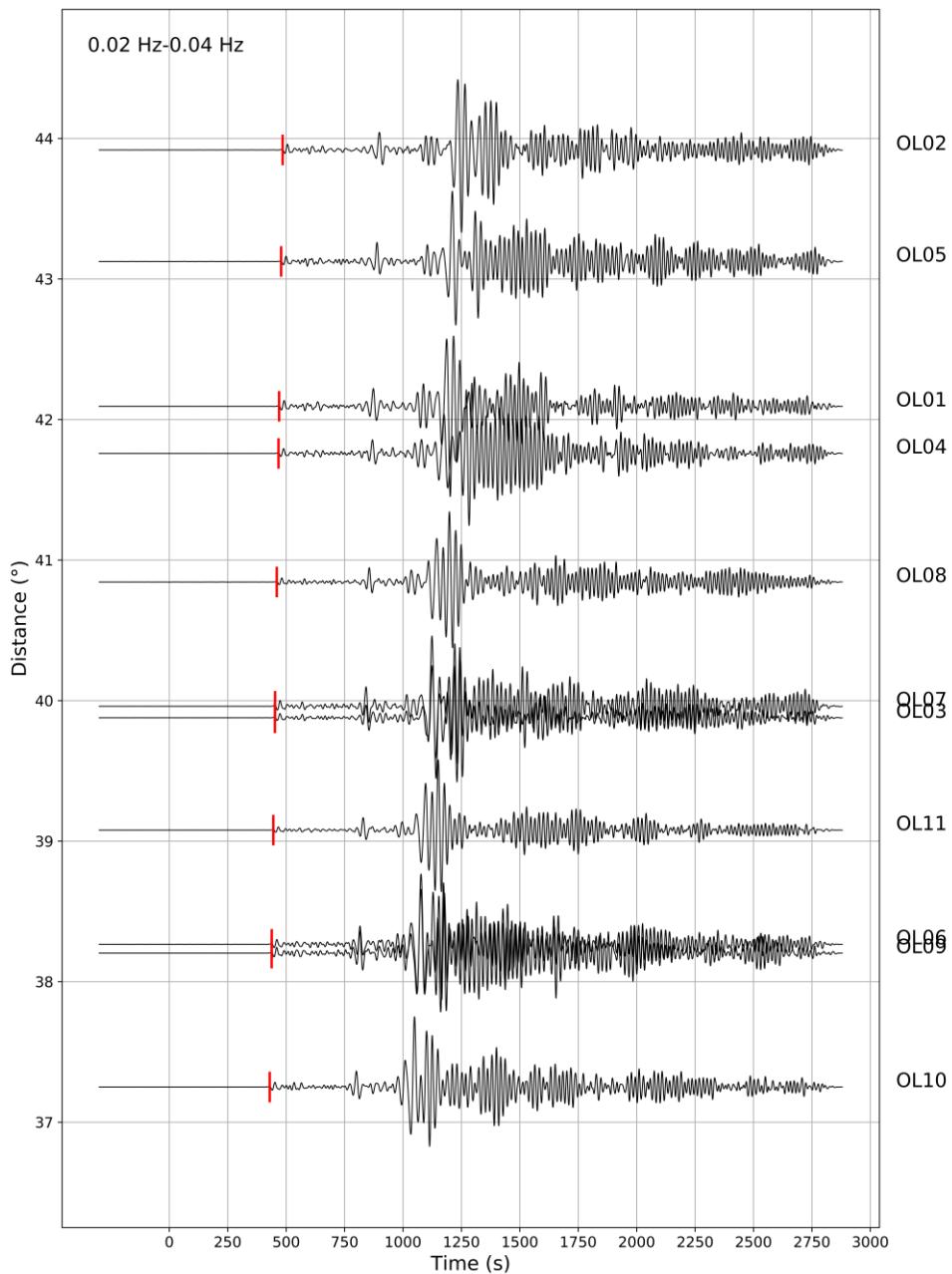
**Figure S2.** (Continued)

(b) MF Record Plot for Earthquake 2018/12/20 17:01 Mw 7.3  
Earthquake at latitude: 55.1°, longitude: 164.7°, depth: 16.6 km

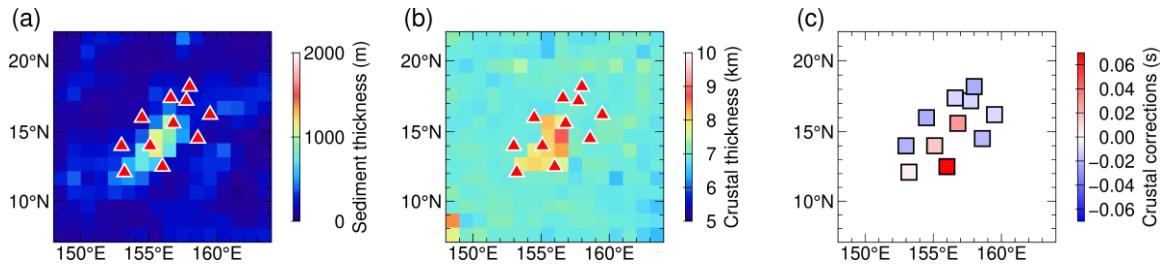


**Figure S2.** (Continued)

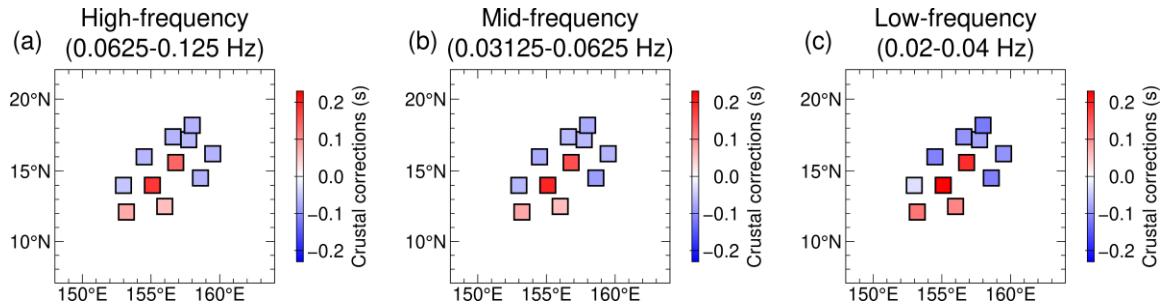
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Earthquake at latitude: 55.1°, longitude: 164.7°, depth: 16.6 km



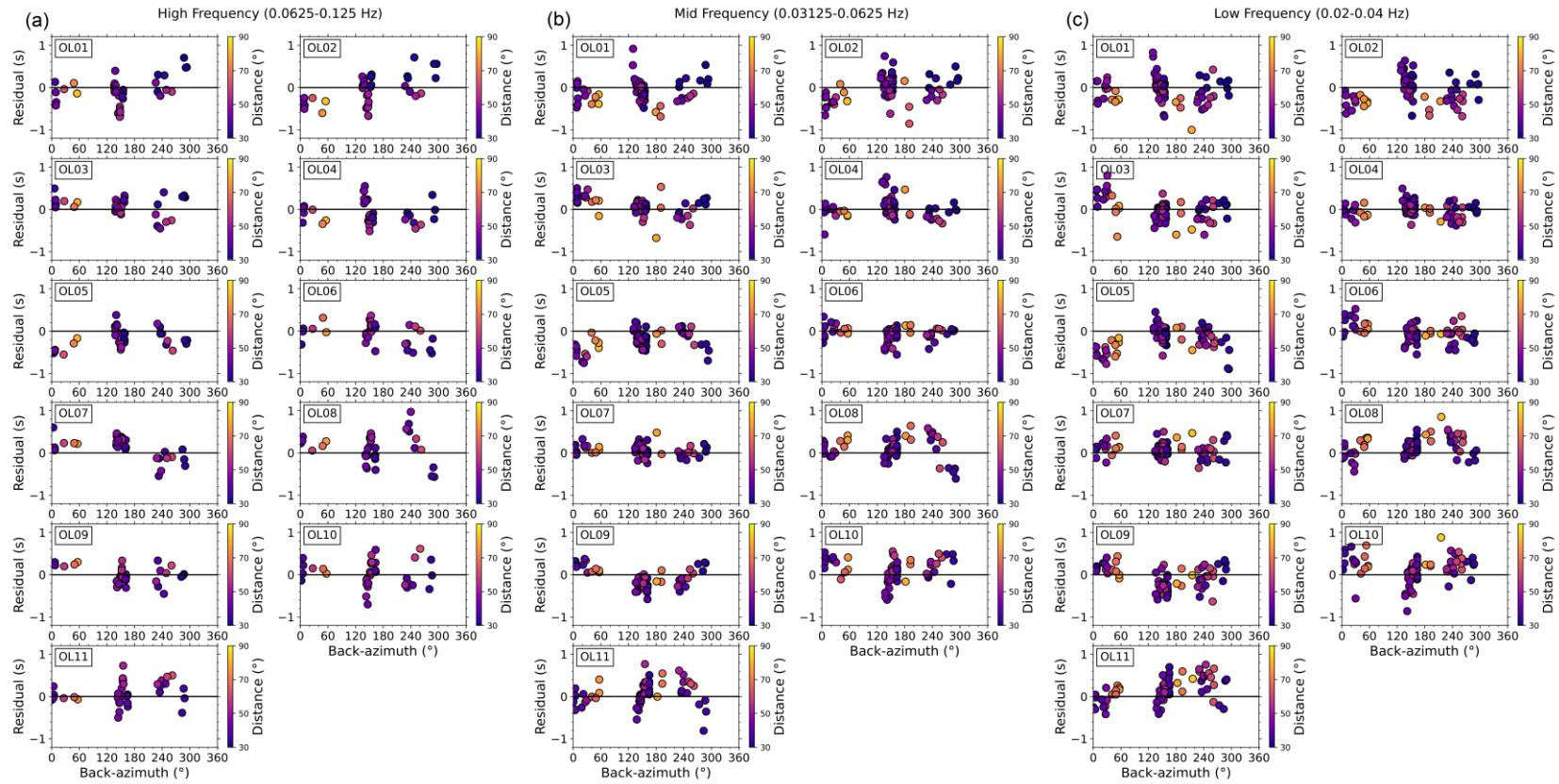
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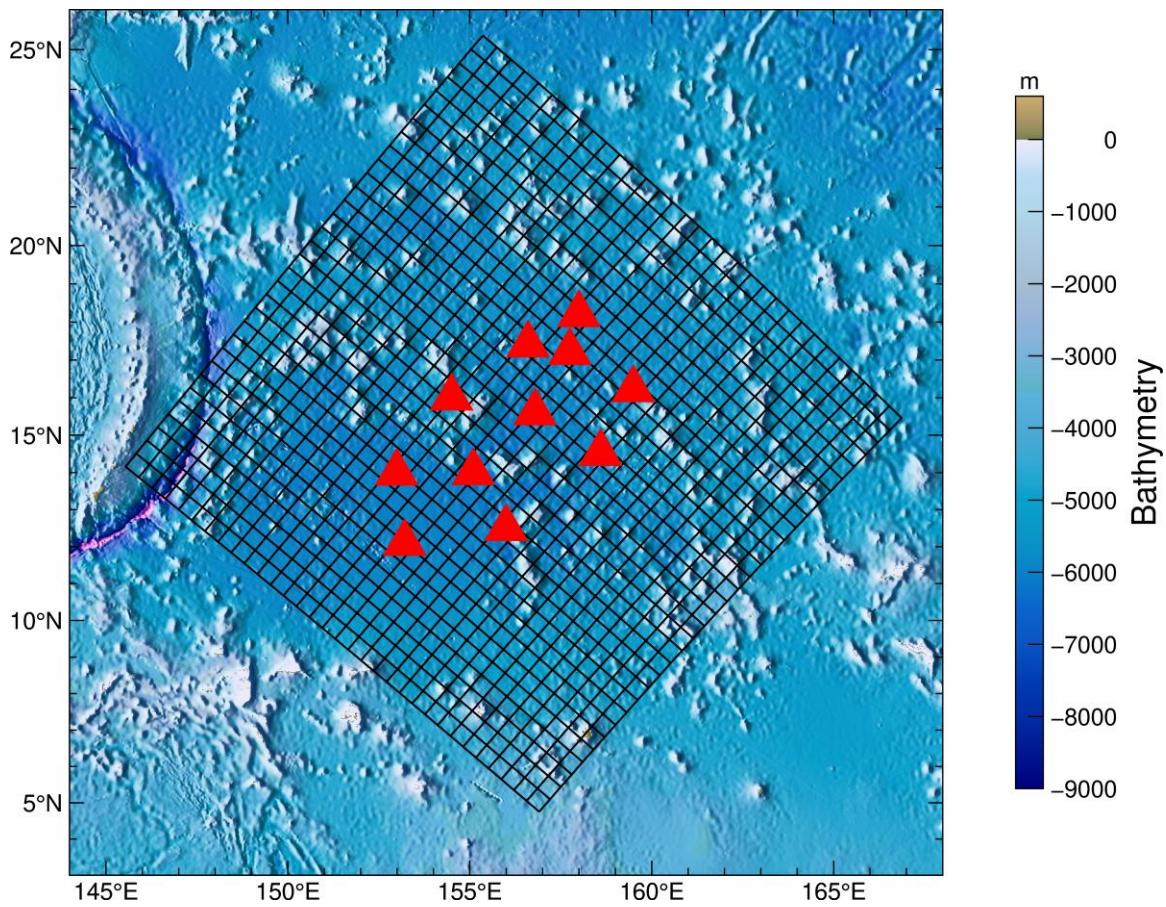
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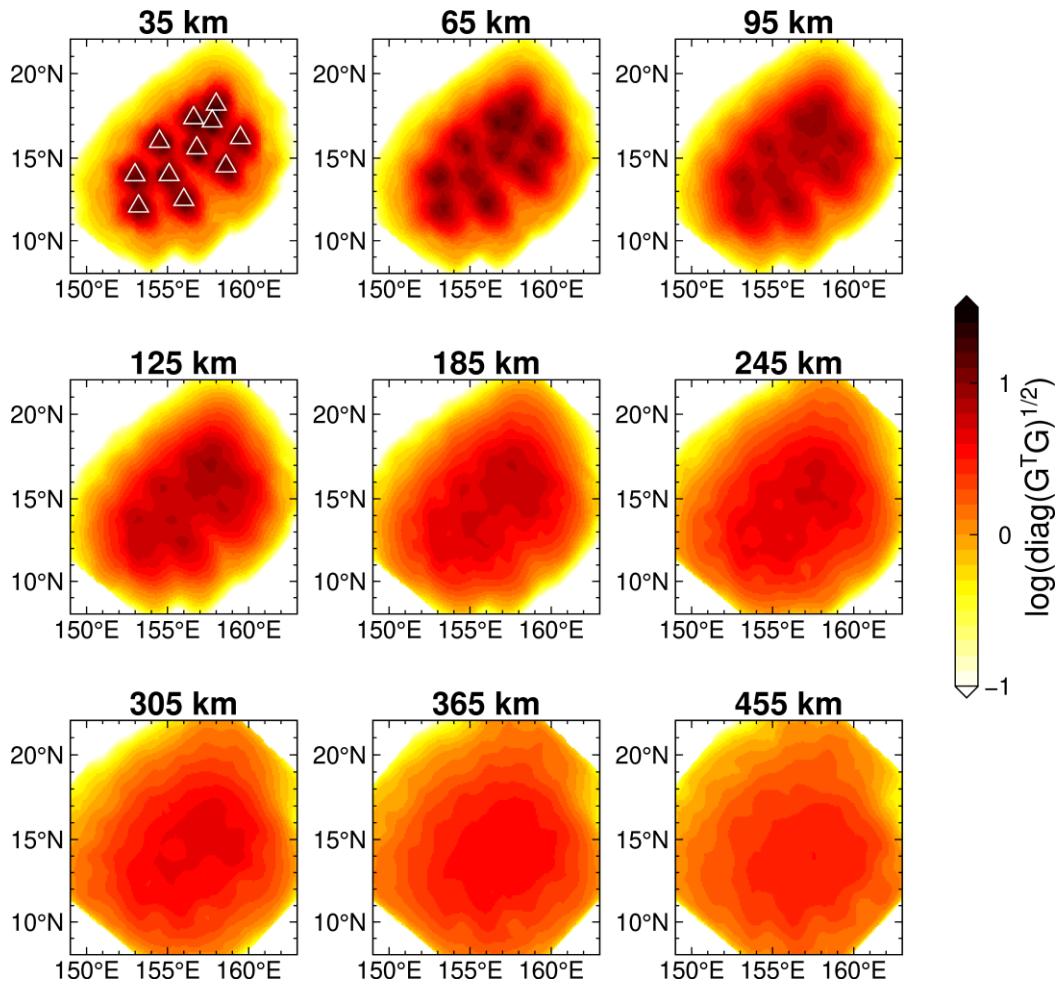
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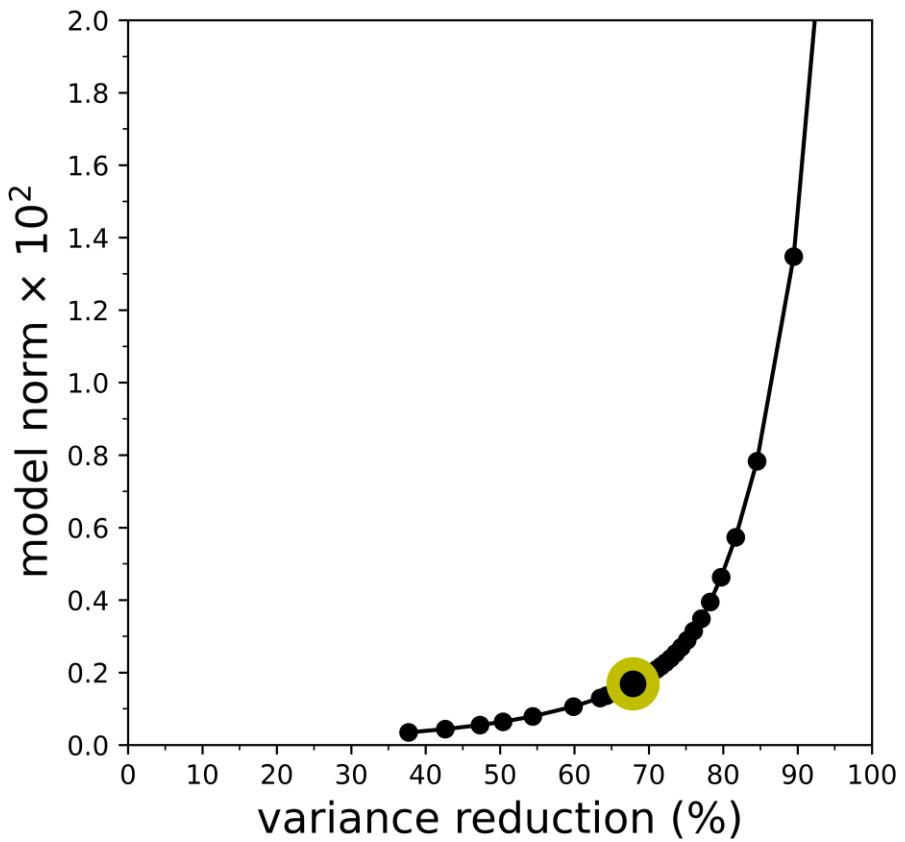
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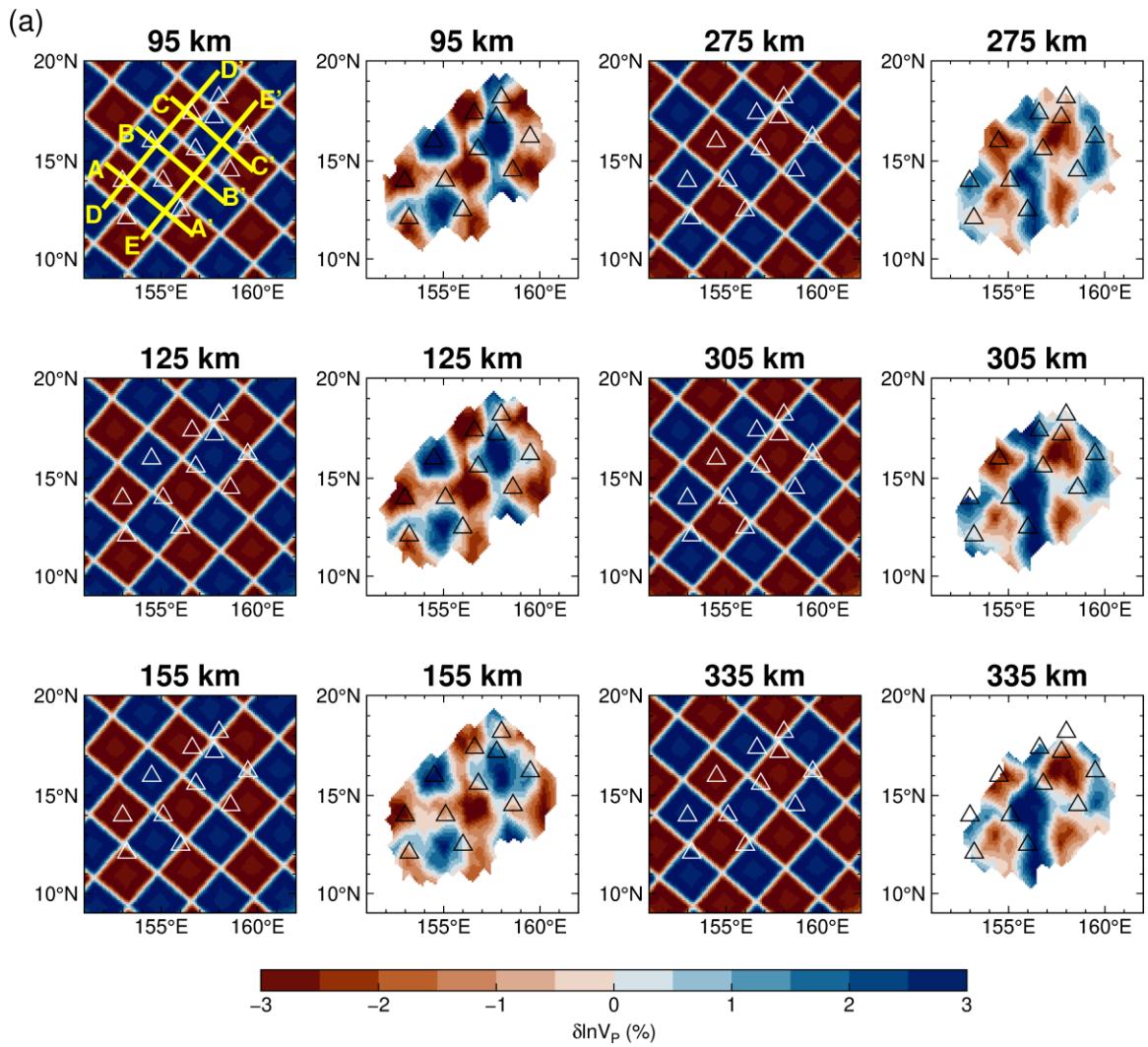
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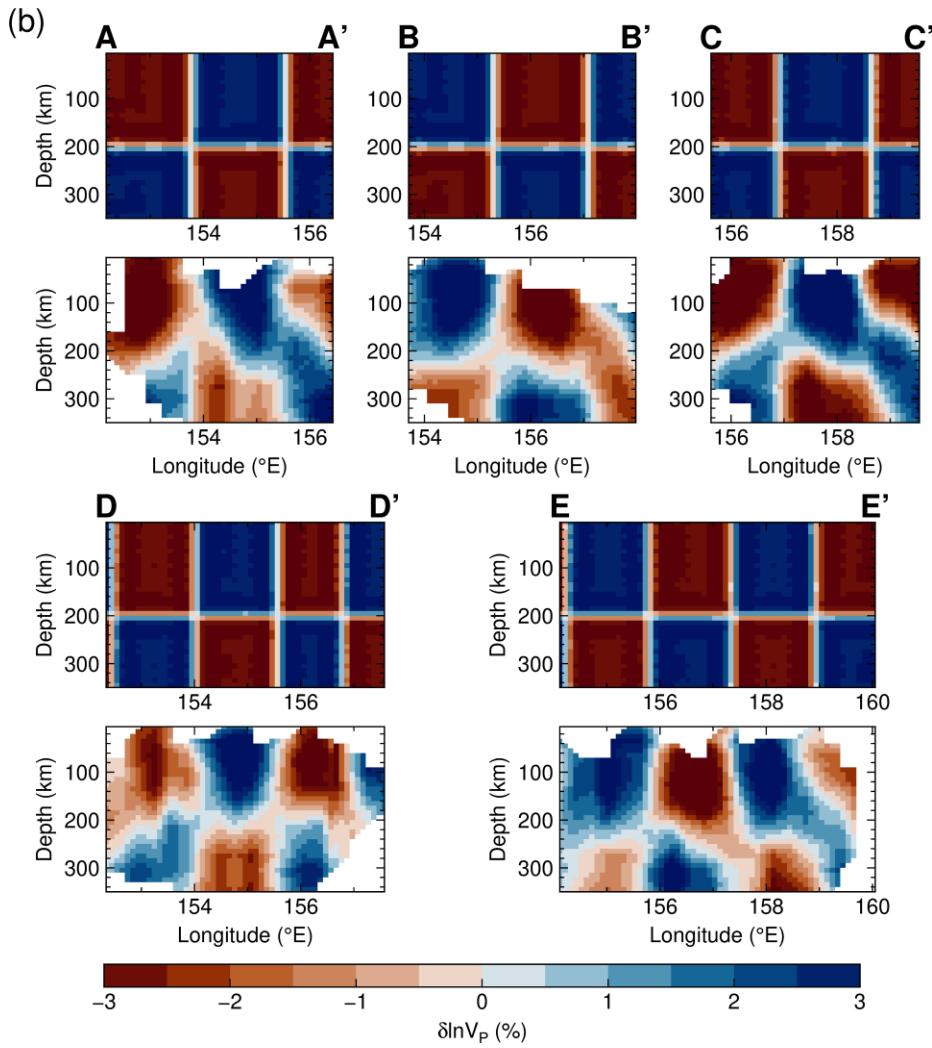
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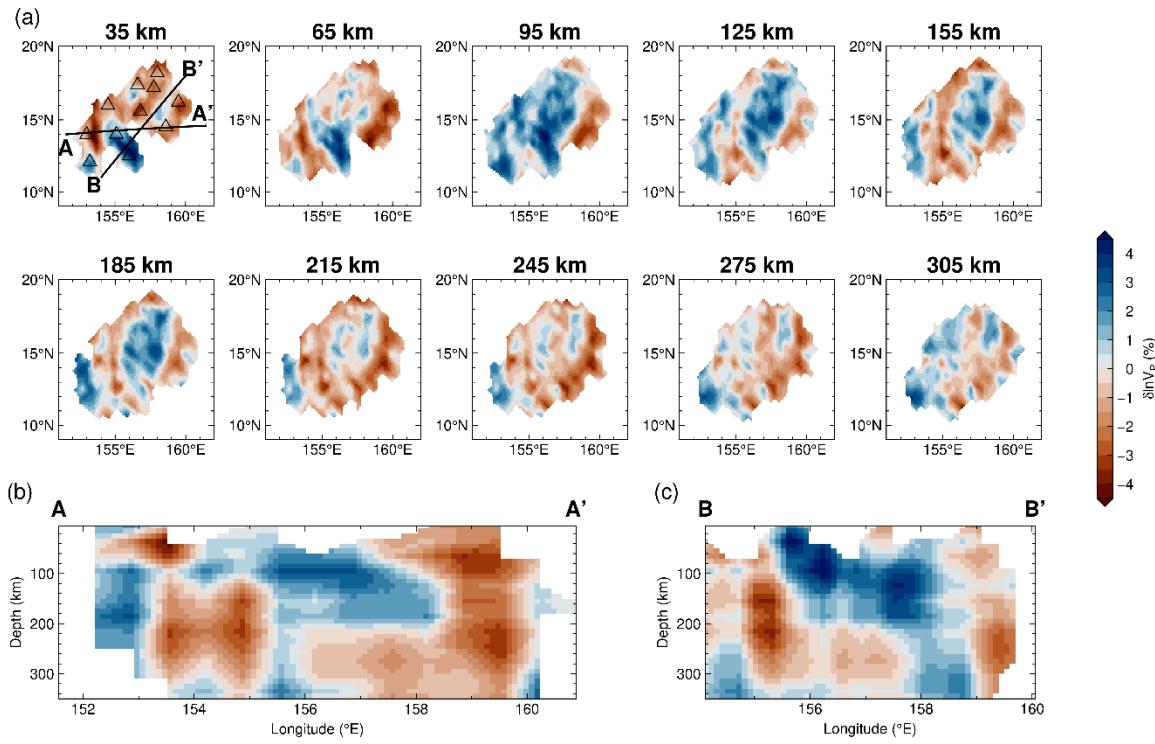
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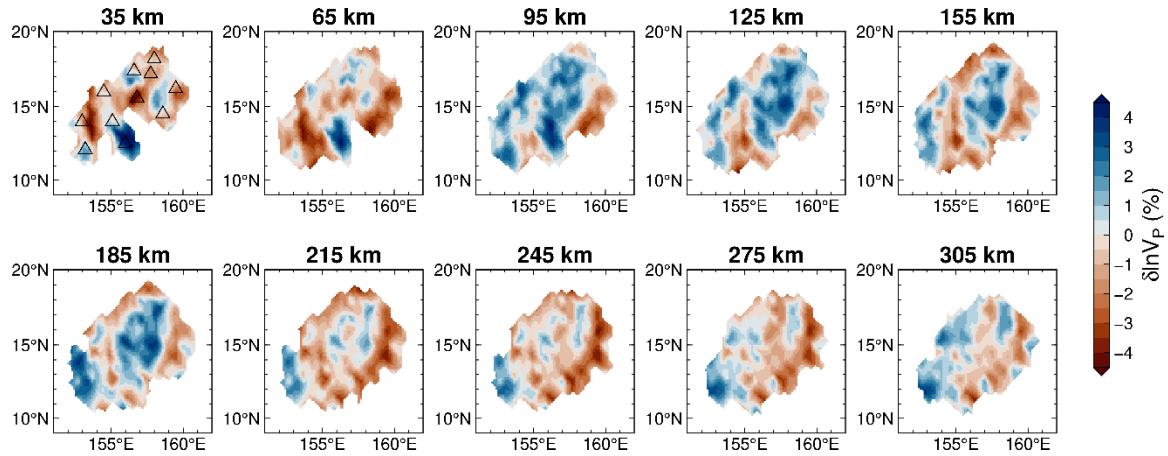
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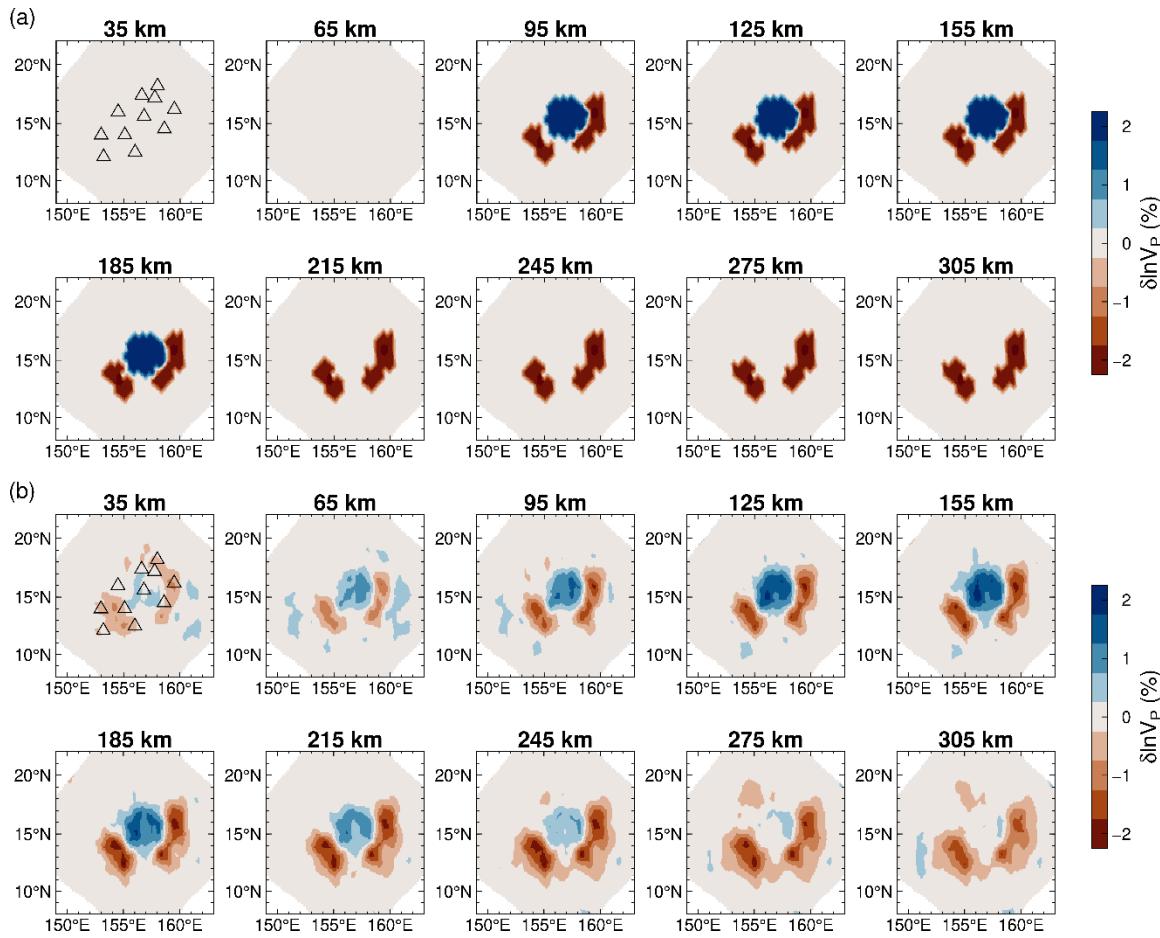
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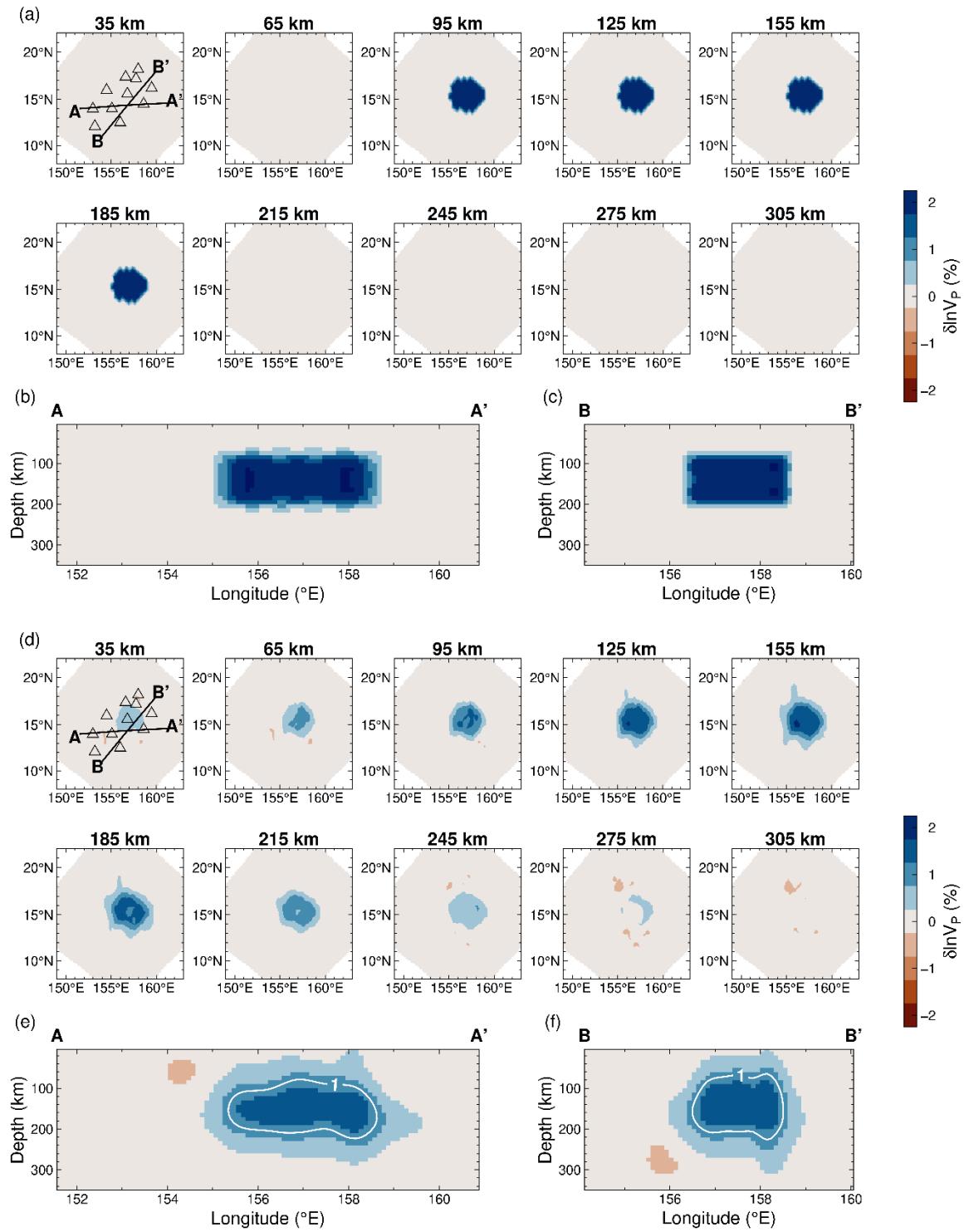
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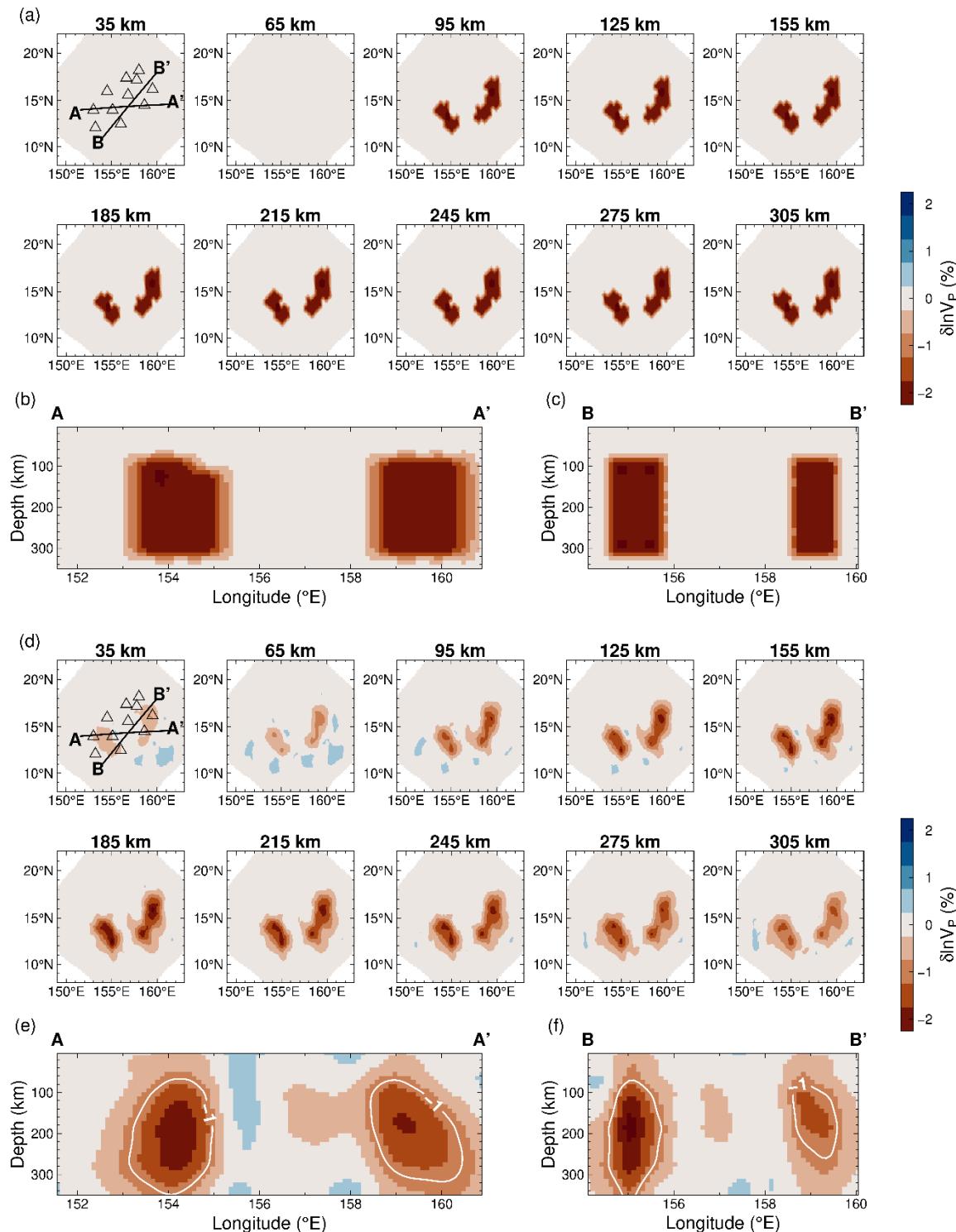
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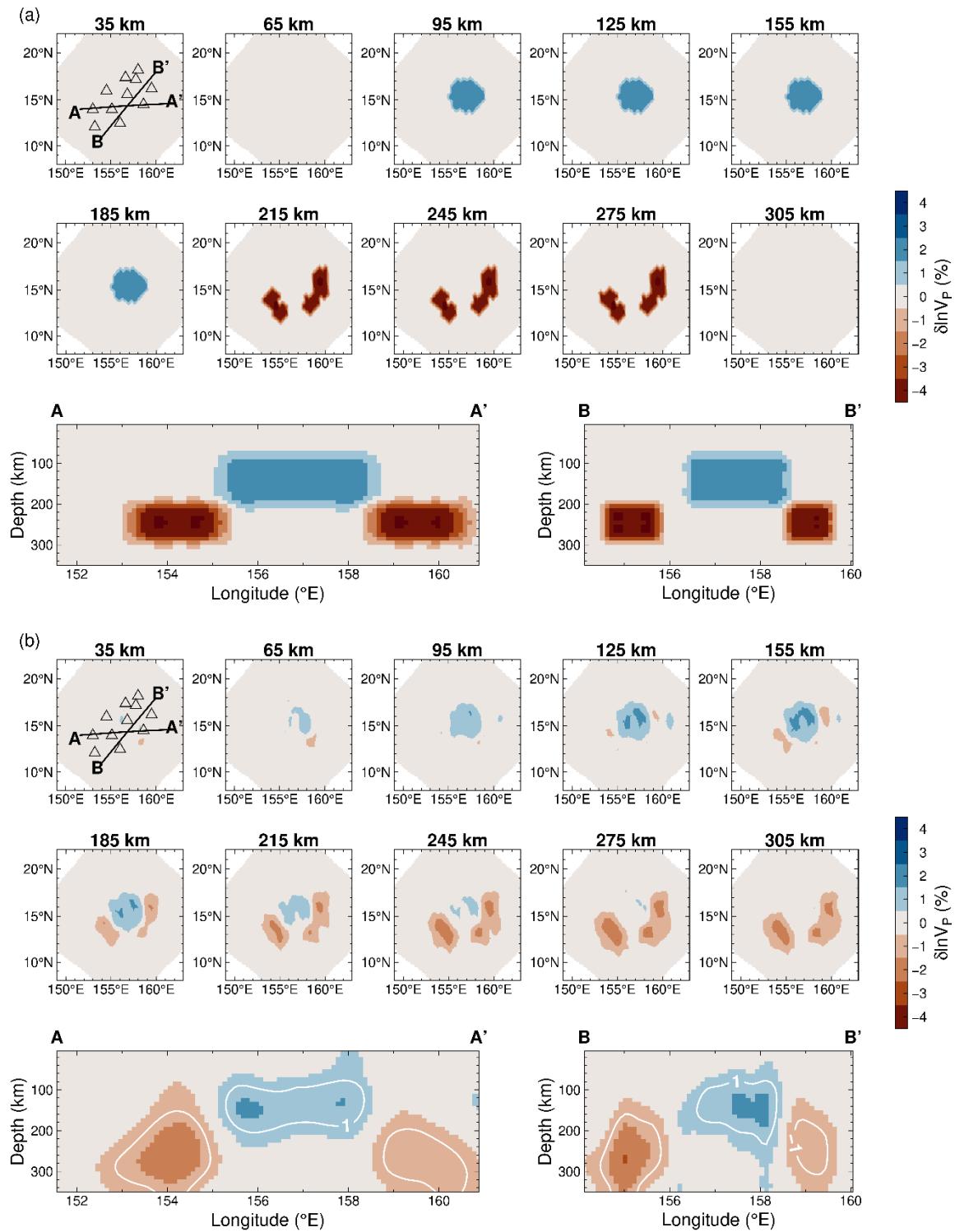
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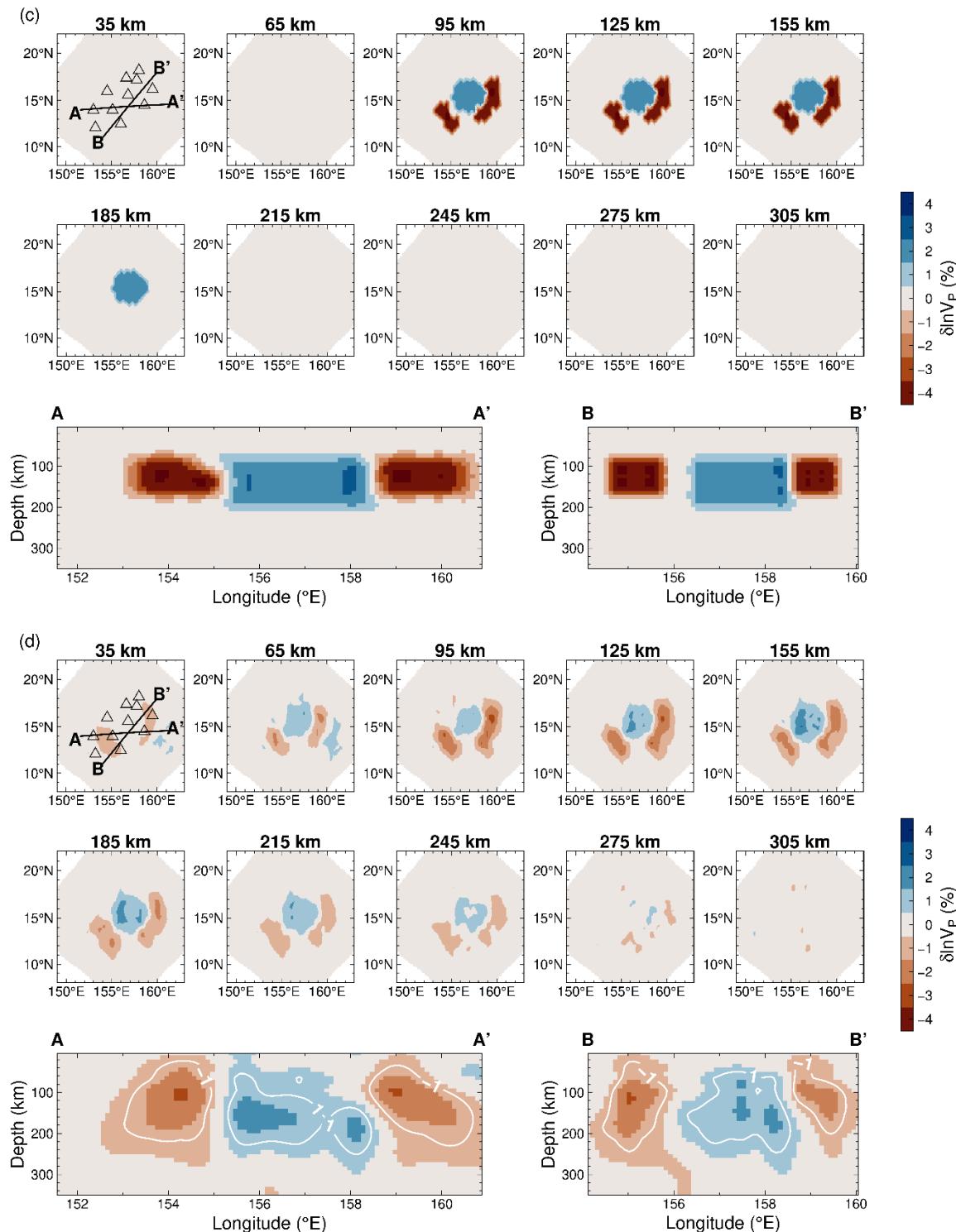
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**Figure S14.** Synthetic test result for two slow- $V_P$  anomalies ( $\delta \ln V_P = -2\%$ ) denoted as S1 and S2 in the final model. Ten horizontal slices and two vertical profiles of the input (a–c) and output (d–f) synthetic model are shown. The slow- $V_P$  anomalies are prescribed at 90–315 km depth (S1 and S2). White lines in panels (e) and (f) indicate a  $-1\%$  contour of the recovered (output)  $P$ -wave model.

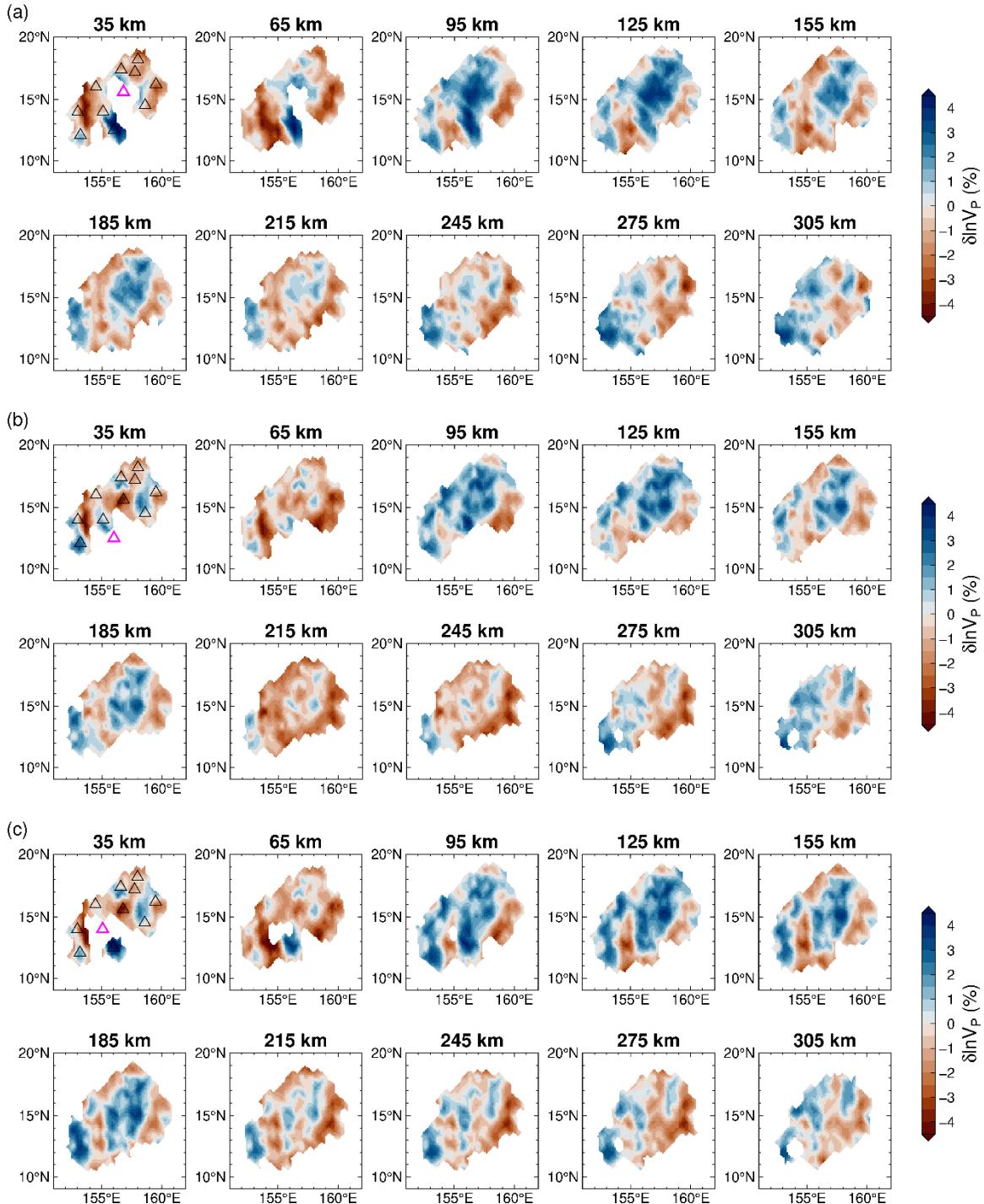


**Figure S15.** (Continued)



**Figure S15.** Synthetic test results for horizontal and vertical smearing of the observed slow- $V_P$  structure. Horizontal and vertical slices of the input (a, c) and output (b, d) synthetic model are shown. All input models include a fast- $V_P$  anomaly ( $\delta \ln V_P = +2\%$ ) at 90–210 km depth. Two slow- $V_P$  ( $\delta \ln V_P = -4\%$ ) anomalies are prescribed at depths of (a) 210–285 km and (c) 90–165 km in the input models. Panels (b, d) show recovered

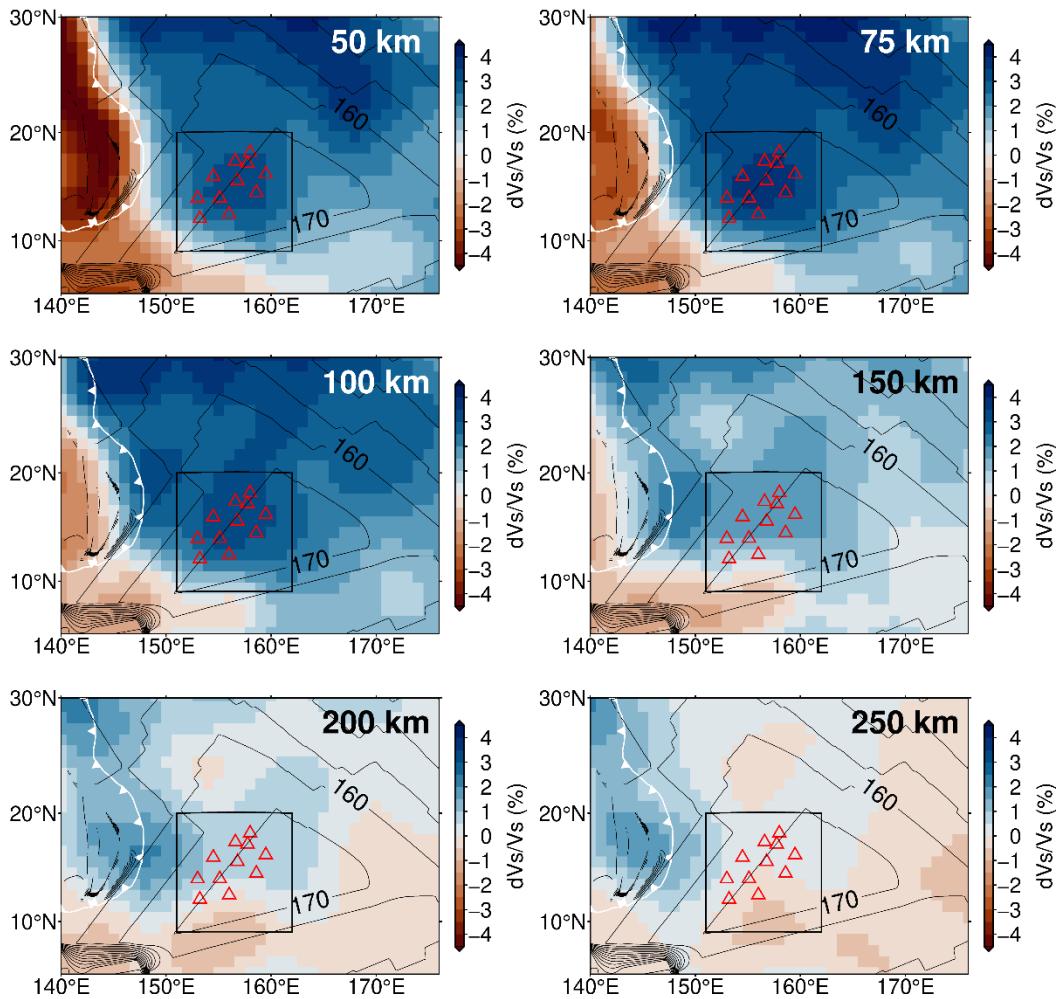
(output) models for input models (a, c), respectively. White lines in panels (b, d) indicate  $\pm 1\%$  contours of the recovered *P*-wave model.



**Figure S16.**  $V_P$  models using only ten stations, excluding three stations, OL07, OL05, and OL04, respectively, that lie on/near the thick sediment and crust. (a)  $V_P$  model excluding the data of station OL07, (b)  $V_P$  model excluding the data of station OL05, and (c)  $V_P$  model excluding the data of station OL04. The location of the station that was removed is shown as a magenta-outlined triangle at 35 km depth slice, while those of

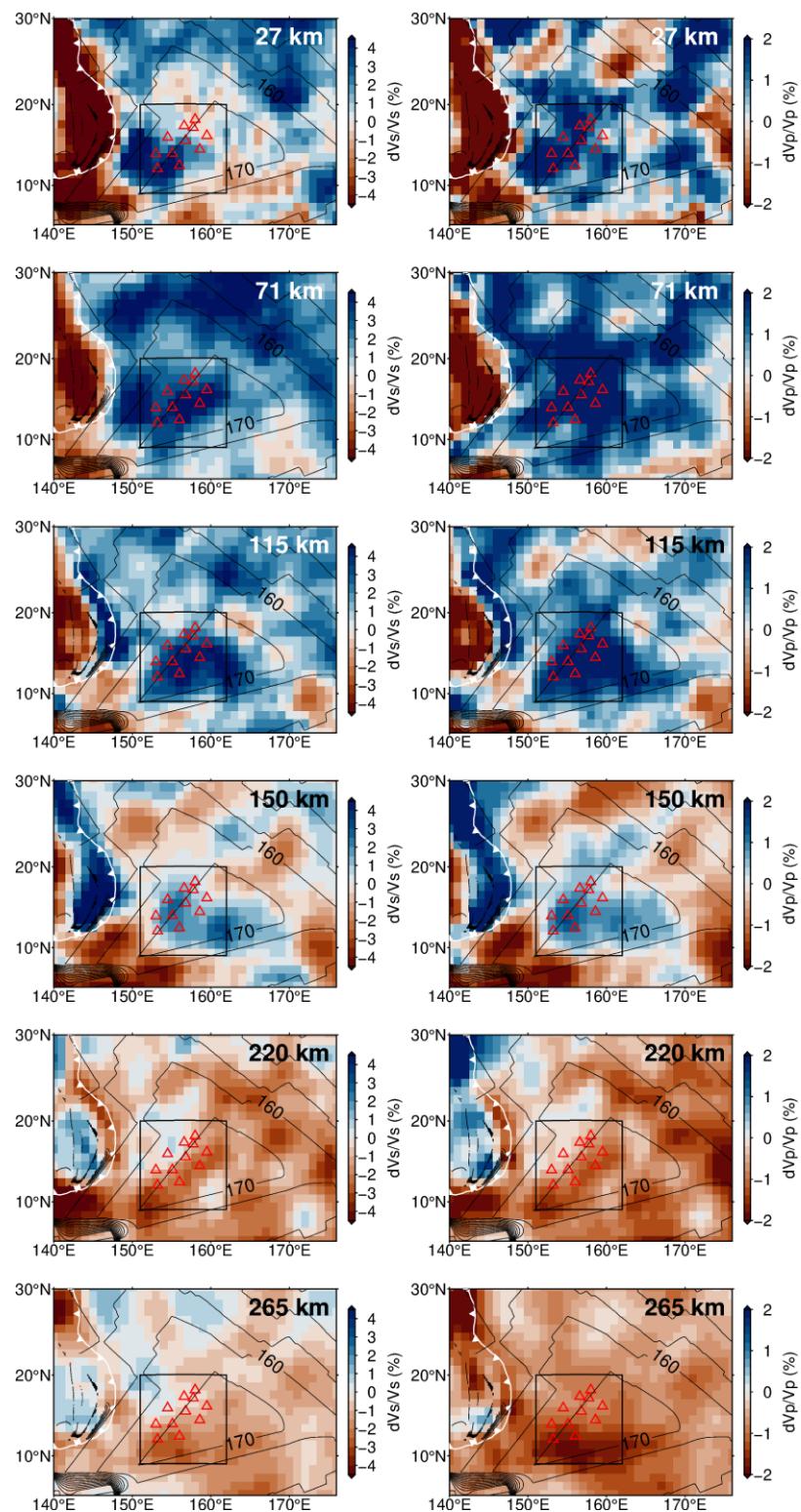
the nine other stations are shown as black-outlined triangles. The model at nodes with a  $\text{diag}(\mathbf{G}^T \mathbf{G})^{1/2}$  values exceeding 0.13% of the overall maximum at all nodes is plotted.

(a) PAC-age model



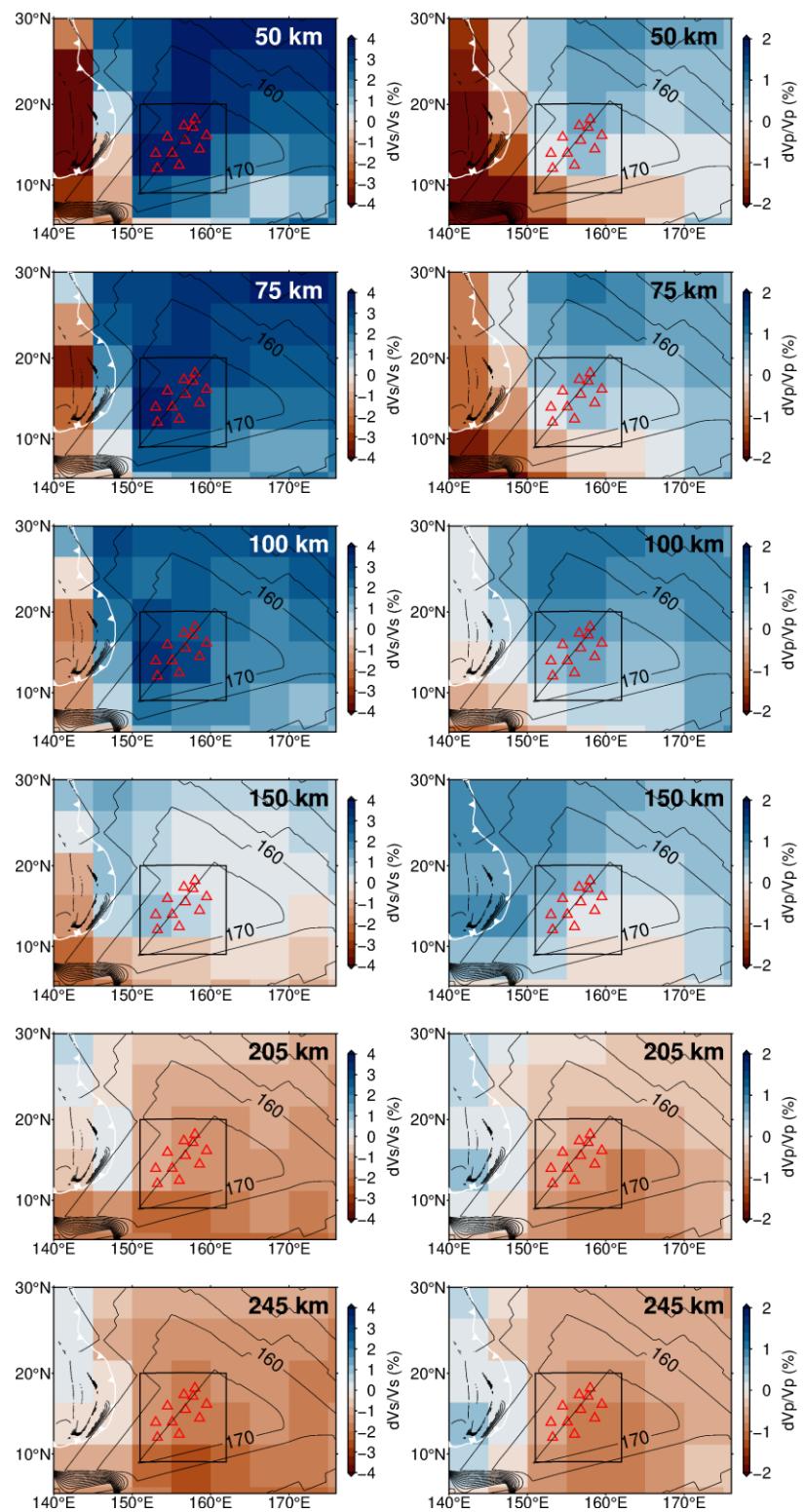
**Figure S17.** (Continued)

(b) SPiRaL model



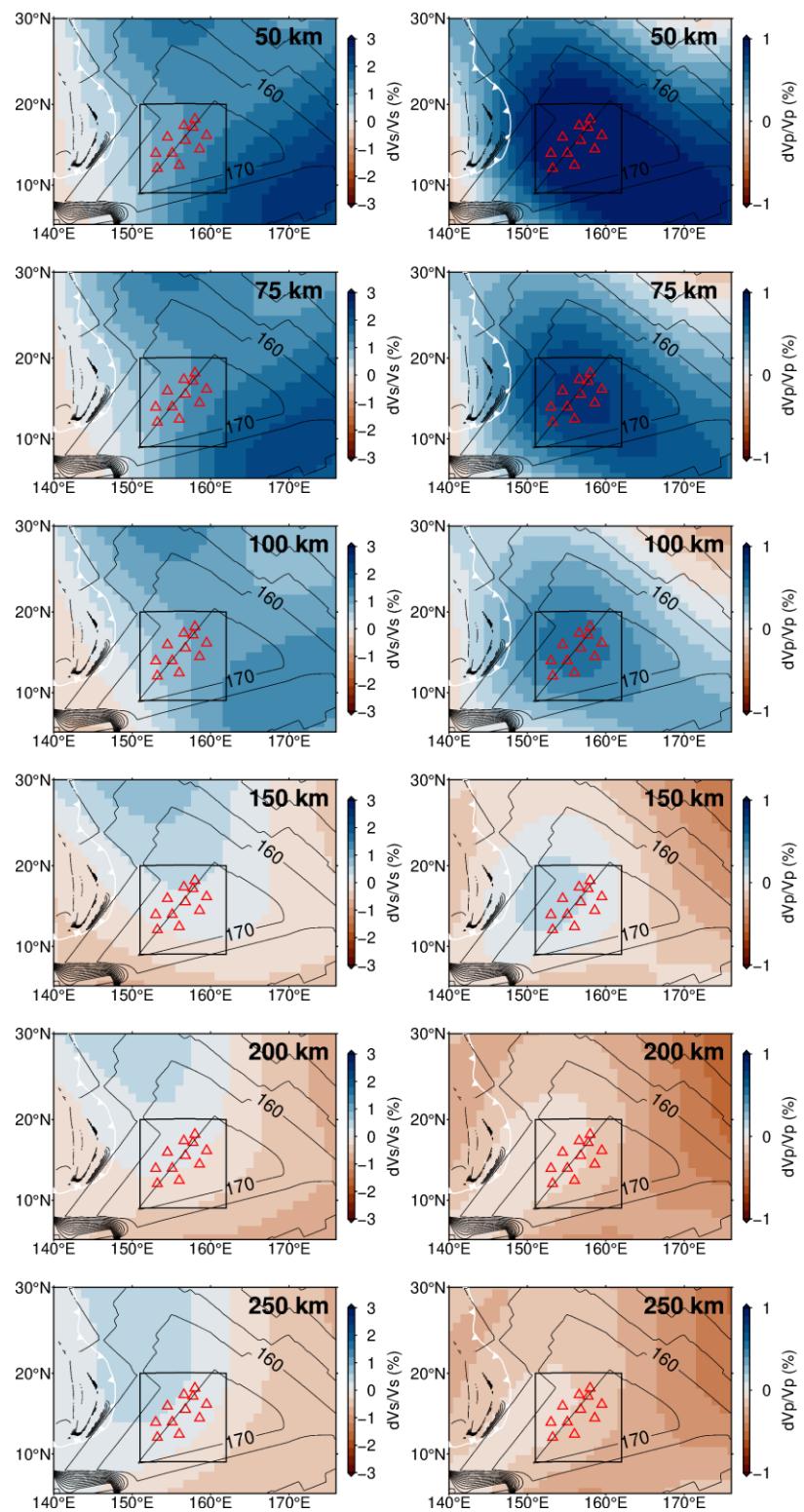
**Figure S17.** (Continued)

(c) SPani model



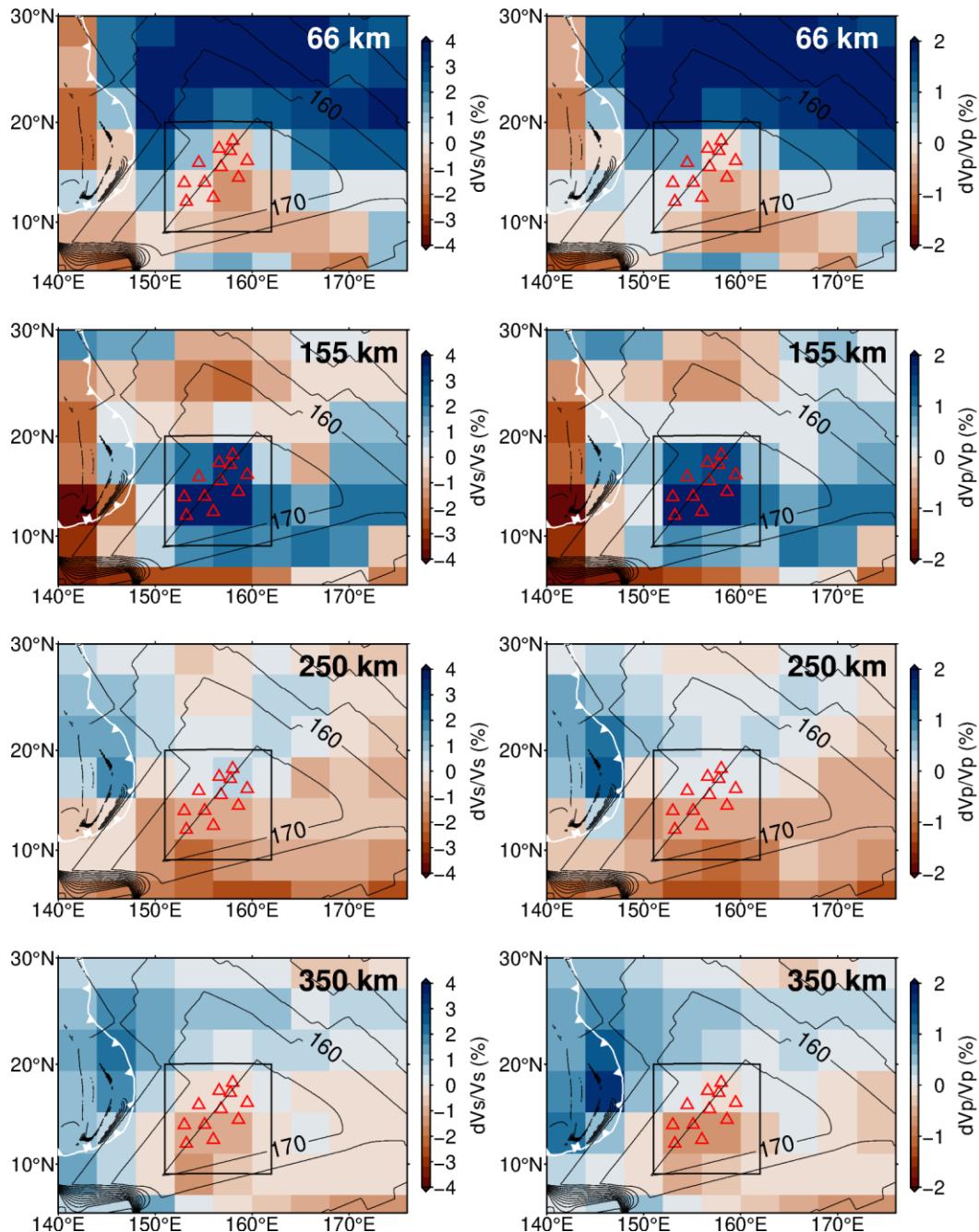
**Figure S17.** (Continued)

(d) SP12RTS model

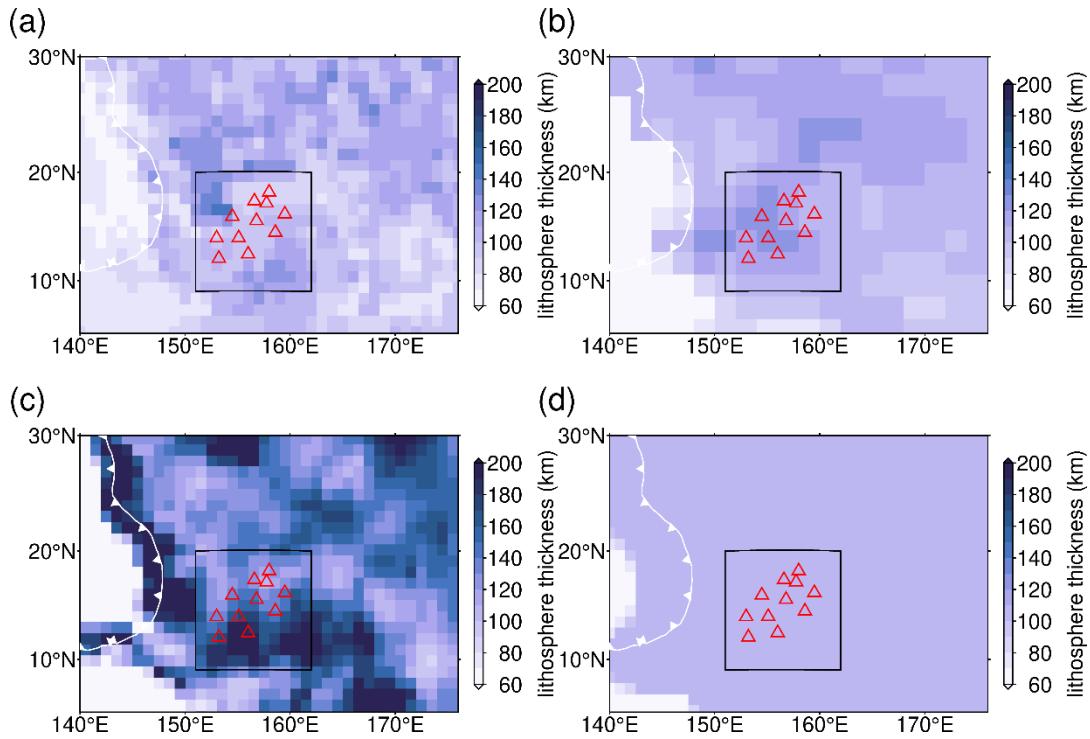


**Figure S17.** (Continued)

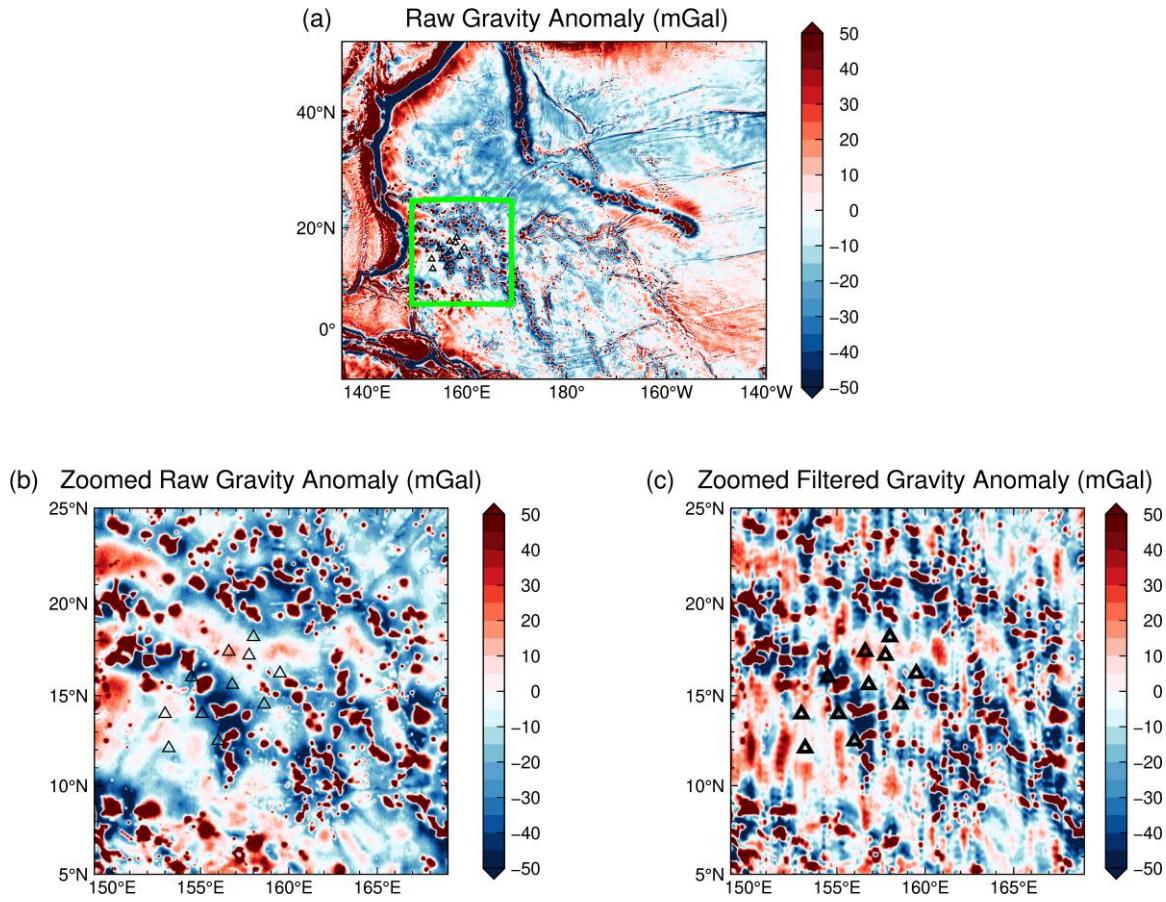
(e) HMSL model



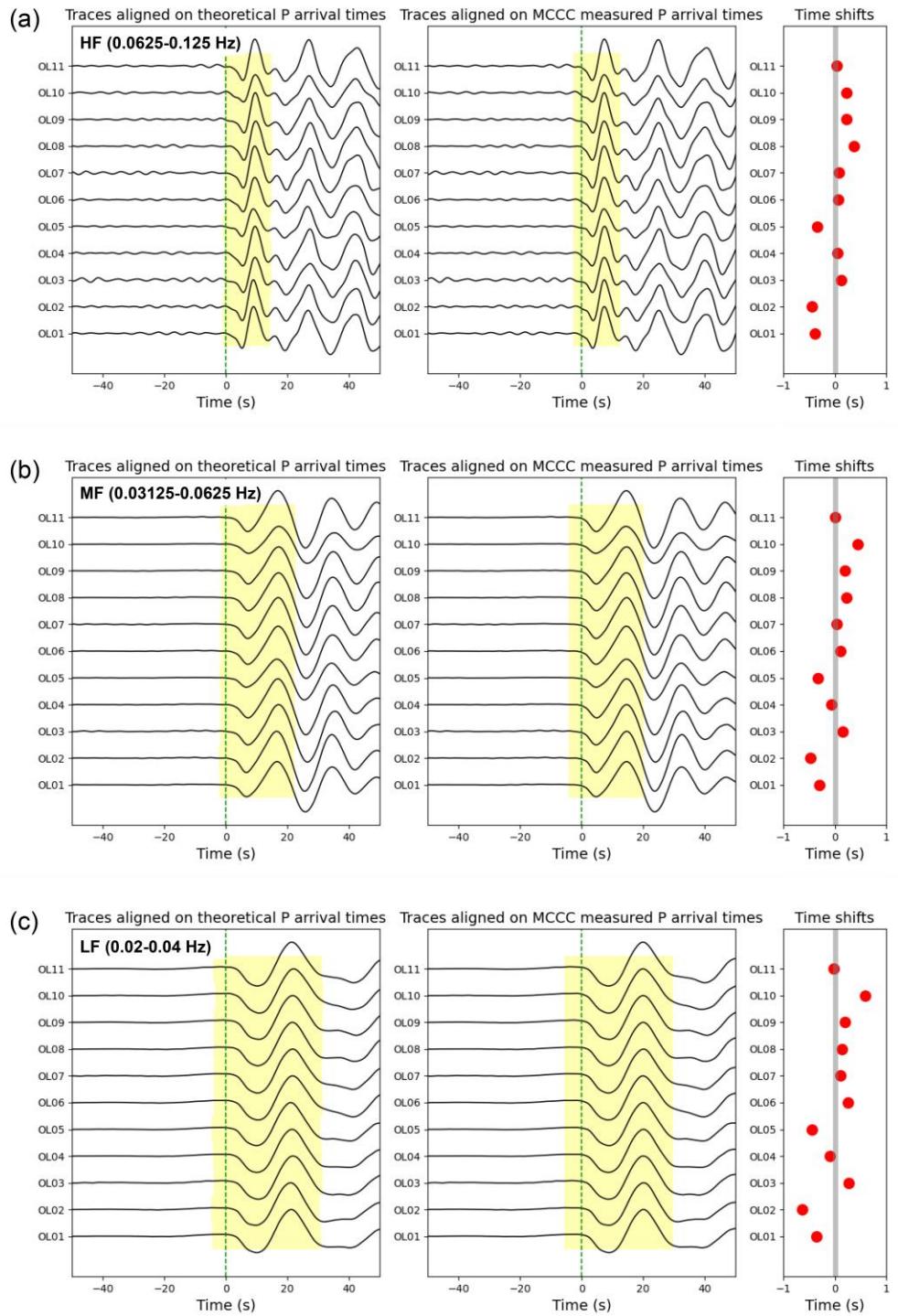
**Figure S17.** Comparison of global tomographic models (a) PAC-age (Isse et al., 2019), (b) SPiRaL (Simmons et al., 2021a), (c) SPani (Tesoniero et al., 2015a), (d) SP12RTS (Koelemeijer et al., 2016a), and (e) HMSL (Houser et al., 2008a). Black box in each model slice indicates the location of the Oldest-1 experiment site.



**Figure S18.** Comparison of global lithospheric thickness models. (a) lithospheric thickness model of WINTERC-G (Fullea et al., 2021), (b) lithospheric thickness model derived from upper mantle V<sub>SV</sub> model CAM2016V<sub>SV</sub> (Priestley et al., 2018), (c) LITHO1.0 (Pasyanos et al., 2014), and (d) lithospheric thickness model of Conrad and Lithgow-Bertelloni (2006).



**Figure S19.** Free-air anomaly of the oldest Pacific region. (a) Raw free air gravity anomaly from satellite altimetry (Sandwell et al., 2014). (b) Zoomed-in map showing raw free air gravity anomaly for the region enclosed by green box. (c) Zoomed-in map showing the band-pass filtered ( $50 \text{ km} < \text{wavelength} < 600 \text{ km}$ ) free air gravity anomaly for the region enclosed by green box in (a).



**Figure S20.** An example of relative traveltimes measurements for an earthquake that occurred on Dec. 20, 2018. The seismic traces are aligned on theoretical  $P$ -wave arrival times predicted by PREM (Dziewonski & Anderson, 1981) and MCCC optimized  $P$ -wave arrival times. (a) High-frequency filtered waveforms, (b) Mid-frequency filtered waveforms, and (c) Low-frequency filtered waveforms are shown. Time shifts relative to the average traveltimes of all stations are shown. Yellow-shaded windows indicate cross-correlation windows used in the MCCC measurement.

Station	Latitude (°)	Longitude (°)	Depth (m)	Deployment date	Recovery date	Install time (days)
OL01	13.9919	152.9931	5960	2018-10-31 22:39:40	2019-11-06 11:58:50	371
OL02	12.0983	153.2105	5934	2018-11-07 02:40:57	2019-10-28 04:35:59	355
OL03	15.9993	154.4987	5687	2018-11-01 15:11:32	2019-11-05 20:33:33	369
OL04	14.0012	155.0994	6033	2018-11-06 11:33:44	2019-10-29 08:14:08	357
OL05	12.4975	155.9999	5942	2018-11-06 00:43:38	2019-10-28 21:17:45	356
OL06	17.2014	157.7493	5790	2018-11-03 01:37:11	2019-11-04 20:32:41	366
OL07	15.5995	156.7986	5974	2018-11-02 05:19:03	2019-11-01 04:05:26	364
OL08	14.5171	158.5977	5765	2018-11-05 05:24:54	2019-10-30 15:03:10	359
OL09	17.3999	156.6010	5755	2018-11-02 08:38:38	2019-11-05 05:11:33	368
OL10	18.1993	157.9982	5684	2018-11-03 10:23:17	2019-11-04 11:02:05	366
OL11	16.2178	159.4947	5766	2018-11-04 16:01:37	2019-11-03 07:10:43	364
OL12	17.6992	159.9983	5609	2018-11-04 00:49:30	2019-11-03 19:08:31	364

**Table S1.** Information of the 12 broadband ocean-bottom seismometers (BBOBSs) in the Oldest-1 array.

Year	Julian day	Hour	Min	Sec	Lon (°)	Lat (°)	Depth (km)	Station	dt (s)	Uncertainty (s)
2018	314	8	33	21	185.992	-20.454	35	OL01	0.0145	0.1242
2018	314	8	33	21	185.992	-20.454	35	OL02	0.2518	0.1034
2018	314	8	33	21	185.992	-20.454	35	OL03	-0.0491	0.0961
2018	314	8	33	21	185.992	-20.454	35	OL04	0.4291	0.1456
2018	314	8	33	21	185.992	-20.454	35	OL05	0.1482	0.0991
2018	314	8	33	21	185.992	-20.454	35	OL06	-0.2809	0.0827
2018	314	8	33	21	185.992	-20.454	35	OL07	0.1909	0.136
2018	314	8	33	21	185.992	-20.454	35	OL08	-0.0391	0.1068
2018	314	8	33	21	185.992	-20.454	35	OL09	-0.1509	0.1057
2018	314	8	33	21	185.992	-20.454	35	OL10	-0.51	0.1456
2018	314	8	33	21	185.992	-20.454	35	OL11	-0.0046	0.1493
2018	322	20	25	46	181.073	-17.873	540	OL01	0.358	0.0304
2018	322	20	25	46	181.073	-17.873	540	OL03	-0.04	0.0215
2018	322	20	25	46	181.073	-17.873	540	OL04	0.537	0.0422
2018	322	20	25	46	181.073	-17.873	540	OL05	0.419	0.0138
2018	322	20	25	46	181.073	-17.873	540	OL06	-0.092	0.0291
2018	322	20	25	46	181.073	-17.873	540	OL07	0.148	0.0274
2018	322	20	25	46	181.073	-17.873	540	OL08	-0.365	0.0249
2018	322	20	25	46	181.073	-17.873	540	OL09	-0.123	0.0222
2018	322	20	25	46	181.073	-17.873	540	OL10	-0.697	0.0366
2018	322	20	25	46	181.073	-17.873	540	OL11	-0.145	0.0215
2018	334	17	29	29	210.045	61.346	46.7	OL01	-0.0864	0.0396
2018	334	17	29	29	210.045	61.346	46.7	OL02	-0.2682	0.0355
2018	334	17	29	29	210.045	61.346	46.7	OL03	0.1891	0.0478
2018	334	17	29	29	210.045	61.346	46.7	OL04	-0.0291	0.0393
2018	334	17	29	29	210.045	61.346	46.7	OL05	-0.4464	0.0392
2018	334	17	29	29	210.045	61.346	46.7	OL06	0.0509	0.0348
2018	334	17	29	29	210.045	61.346	46.7	OL07	0.2364	0.0429
2018	334	17	29	29	210.045	61.346	46.7	OL08	0.0391	0.0369
2018	334	17	29	29	210.045	61.346	46.7	OL09	0.1991	0.0385
2018	334	17	29	29	210.045	61.346	46.7	OL10	0.1545	0.0369
2018	334	17	29	29	210.045	61.346	46.7	OL11	-0.0391	0.0511
2018	335	13	27	21	128.707	-7.384	136	OL01	-0.1327	0.1895
2018	335	13	27	21	128.707	-7.384	136	OL02	0.2636	0.1964
2018	335	13	27	21	128.707	-7.384	136	OL03	-0.3855	0.0785

2018	335	13	27	21	128.707	-7.384	136	OL04	-0.0873	0.1964
2018	335	13	27	21	128.707	-7.384	136	OL05	0.1318	0.1231
2018	335	13	27	21	128.707	-7.384	136	OL06	-0.2964	0.0685
2018	335	13	27	21	128.707	-7.384	136	OL07	-0.5355	0.1497
2018	335	13	27	21	128.707	-7.384	136	OL08	0.6818	0.2685
2018	335	13	27	21	128.707	-7.384	136	OL09	0.34	0.1686
2018	335	13	27	21	128.707	-7.384	136	OL10	-0.0845	0.1436
2018	335	13	27	21	128.707	-7.384	136	OL11	0.1045	0.2763
2018	339	4	18	8	169.427	-21.95	10	OL01	-0.09	0.0154
2018	339	4	18	8	169.427	-21.95	10	OL02	0.3045	0.0189
2018	339	4	18	8	169.427	-21.95	10	OL03	0.2873	0.012
2018	339	4	18	8	169.427	-21.95	10	OL04	-0.1036	0.0245
2018	339	4	18	8	169.427	-21.95	10	OL05	-0.0155	0.0127
2018	339	4	18	8	169.427	-21.95	10	OL06	0.11	0.0192
2018	339	4	18	8	169.427	-21.95	10	OL07	0.1418	0.0143
2018	339	4	18	8	169.427	-21.95	10	OL08	-0.4036	0.0107
2018	339	4	18	8	169.427	-21.95	10	OL09	-0.0627	0.0122
2018	339	4	18	8	169.427	-21.95	10	OL10	0.0664	0.0133
2018	339	4	18	8	169.427	-21.95	10	OL11	-0.2346	0.012
2018	354	17	1	55	164.699	55.1	16.6	OL01	-0.3918	0.0214
2018	354	17	1	55	164.699	55.1	16.6	OL02	-0.4409	0.025
2018	354	17	1	55	164.699	55.1	16.6	OL03	0.1191	0.0121
2018	354	17	1	55	164.699	55.1	16.6	OL04	0.0536	0.0234
2018	354	17	1	55	164.699	55.1	16.6	OL05	-0.3409	0.0138
2018	354	17	1	55	164.699	55.1	16.6	OL06	0.0582	0.0162
2018	354	17	1	55	164.699	55.1	16.6	OL07	0.0818	0.0169
2018	354	17	1	55	164.699	55.1	16.6	OL08	0.3673	0.0136
2018	354	17	1	55	164.699	55.1	16.6	OL09	0.2273	0.0158
2018	354	17	1	55	164.699	55.1	16.6	OL10	0.2245	0.0161
2018	354	17	1	55	164.699	55.1	16.6	OL11	0.0418	0.0128
2018	357	23	8	43	184.929	-20.285	113	OL01	0.0573	0.0926
2018	357	23	8	43	184.929	-20.285	113	OL02	0.0345	0.1332
2018	357	23	8	43	184.929	-20.285	113	OL03	0.2273	0.1424
2018	357	23	8	43	184.929	-20.285	113	OL04	0.4182	0.1212
2018	357	23	8	43	184.929	-20.285	113	OL05	0.1409	0.1688
2018	357	23	8	43	184.929	-20.285	113	OL06	-0.0727	0.2815
2018	357	23	8	43	184.929	-20.285	113	OL07	0.4027	0.1381

2018	357	23	8	43	184.929	-20.285	113	OL08	-0.3191	0.0599
2018	357	23	8	43	184.929	-20.285	113	OL09	-0.2927	0.2035
2018	357	23	8	43	184.929	-20.285	113	OL10	-0.1036	0.1356
2018	357	23	8	43	184.929	-20.285	113	OL11	-0.4927	0.2156
2019	22	5	10	3	119.016	-10.415	24	OL01	-0.2282	0.0404
2019	22	5	10	3	119.016	-10.415	24	OL02	-0.1045	0.0444
2019	22	5	10	3	119.016	-10.415	24	OL03	-0.4409	0.141
2019	22	5	10	3	119.016	-10.415	24	OL04	-0.1536	0.1012
2019	22	5	10	3	119.016	-10.415	24	OL05	-0.0255	0.0642
2019	22	5	10	3	119.016	-10.415	24	OL06	0.1418	0.1079
2019	22	5	10	3	119.016	-10.415	24	OL07	-0.4145	0.1099
2019	22	5	10	3	119.016	-10.415	24	OL08	0.9627	0.1592
2019	22	5	10	3	119.016	-10.415	24	OL09	0.0982	0.0318
2019	22	5	10	3	119.016	-10.415	24	OL10	-0.22	0.1109
2019	22	5	10	3	119.016	-10.415	24	OL11	0.3845	0.0248
2019	87	22	6	49	159.943	50.495	9	OL01	0.0882	0.0454
2019	87	22	6	49	159.943	50.495	9	OL02	-0.3664	0.181
2019	87	22	6	49	159.943	50.495	9	OL03	0.4918	0.128
2019	87	22	6	49	159.943	50.495	9	OL04	-0.3355	0.1202
2019	87	22	6	49	159.943	50.495	9	OL05	-0.4218	0.0924
2019	87	22	6	49	159.943	50.495	9	OL06	-0.3191	0.0855
2019	87	22	6	49	159.943	50.495	9	OL07	0.6036	0.0359
2019	87	22	6	49	159.943	50.495	9	OL08	0.2145	0.0717
2019	87	22	6	49	159.943	50.495	9	OL09	0.2591	0.0877
2019	87	22	6	49	159.943	50.495	9	OL10	-0.1355	0.2354
2019	87	22	6	49	159.943	50.495	9	OL11	-0.0791	0.1164
2019	102	11	40	49	122.58	-1.815	15.5	OL01	0.2564	0.0353
2019	102	11	40	49	122.58	-1.815	15.5	OL02	0.7082	0.0688
2019	102	11	40	49	122.58	-1.815	15.5	OL03	0.4127	0.0346
2019	102	11	40	49	122.58	-1.815	15.5	OL04	-0.3309	0.0299
2019	102	11	40	49	122.58	-1.815	15.5	OL05	-0.2845	0.0499
2019	102	11	40	49	122.58	-1.815	15.5	OL06	-0.5127	0.051
2019	102	11	40	49	122.58	-1.815	15.5	OL07	0.0355	0.0498
2019	102	11	40	49	122.58	-1.815	15.5	OL08	0.1091	0.0432
2019	102	11	40	49	122.58	-1.815	15.5	OL09	-0.4473	0.0434
2019	102	11	40	49	122.58	-1.815	15.5	OL10	-0.2464	0.0306
2019	102	11	40	49	122.58	-1.815	15.5	OL11	0.3	0.0852

2019	108	5	1	6	121.65	24.037	20	OL01	0.44	0.0414
2019	108	5	1	6	121.65	24.037	20	OL02	0.5455	0.0224
2019	108	5	1	6	121.65	24.037	20	OL03	0.2864	0.0628
2019	108	5	1	6	121.65	24.037	20	OL04	-0.0318	0.0229
2019	108	5	1	6	121.65	24.037	20	OL05	-0.1145	0.0391
2019	108	5	1	6	121.65	24.037	20	OL06	-0.1864	0.0391
2019	108	5	1	6	121.65	24.037	20	OL07	-0.3036	0.0441
2019	108	5	1	6	121.65	24.037	20	OL08	-0.5864	0.0466
2019	108	5	1	6	121.65	24.037	20	OL09	0.0136	0.0337
2019	108	5	1	6	121.65	24.037	20	OL10	-0.0173	0.0338
2019	108	5	1	6	121.65	24.037	20	OL11	-0.0454	0.0202
2019	113	14	20	17	181.236	-24.706	385.6	OL01	-0.65	0.0231
2019	113	14	20	17	181.236	-24.706	385.6	OL02	-0.4918	0.2048
2019	113	14	20	17	181.236	-24.706	385.6	OL03	0.0882	0.1045
2019	113	14	20	17	181.236	-24.706	385.6	OL04	0.2209	0.2553
2019	113	14	20	17	181.236	-24.706	385.6	OL05	-0.2273	0.0623
2019	113	14	20	17	181.236	-24.706	385.6	OL06	0.2736	0.0798
2019	113	14	20	17	181.236	-24.706	385.6	OL07	0.3964	0.133
2019	113	14	20	17	181.236	-24.706	385.6	OL08	0.1445	0.1456
2019	113	14	20	17	181.236	-24.706	385.6	OL09	-0.0236	0.1654
2019	113	14	20	17	181.236	-24.706	385.6	OL10	0.0691	0.1808
2019	113	14	20	17	181.236	-24.706	385.6	OL11	0.2	0.1179
2019	130	3	23	33	183.221	-28.668	10	OL01	-0.2291	0.023
2019	130	3	23	33	183.221	-28.668	10	OL02	-0.1927	0.0588
2019	130	3	23	33	183.221	-28.668	10	OL03	0.0555	0.0483
2019	130	3	23	33	183.221	-28.668	10	OL04	-0.2909	0.0382
2019	130	3	23	33	183.221	-28.668	10	OL05	-0.0109	0.0364
2019	130	3	23	33	183.221	-28.668	10	OL06	0.0109	0.0183
2019	130	3	23	33	183.221	-28.668	10	OL07	0.3691	0.0357
2019	130	3	23	33	183.221	-28.668	10	OL08	0.3555	0.0577
2019	130	3	23	33	183.221	-28.668	10	OL09	-0.0655	0.0599
2019	130	3	23	33	183.221	-28.668	10	OL10	-0.0118	0.024
2019	130	3	23	33	183.221	-28.668	10	OL11	0.01	0.0286
2019	139	1	23	29	169.778	-21.662	20	OL01	-0.3009	0.0198
2019	139	1	23	29	169.778	-21.662	20	OL02	0.0564	0.0216
2019	139	1	23	29	169.778	-21.662	20	OL03	0.1673	0.0498
2019	139	1	23	29	169.778	-21.662	20	OL04	-0.2136	0.0303

2019	139	1	23	29	169.778	-21.662	20	OL05	-0.2318	0.0208
2019	139	1	23	29	169.778	-21.662	20	OL06	0.1136	0.0359
2019	139	1	23	29	169.778	-21.662	20	OL07	0.1082	0.0347
2019	139	1	23	29	169.778	-21.662	20	OL08	-0.0527	0.0312
2019	139	1	23	29	169.778	-21.662	20	OL09	0.0136	0.0533
2019	139	1	23	29	169.778	-21.662	20	OL10	0.2873	0.0289
2019	139	1	23	29	169.778	-21.662	20	OL11	0.0527	0.0439
2019	139	14	27	11	169.576	-21.731	16	OL01	-0.1691	0.2106
2019	139	14	27	11	169.576	-21.731	16	OL02	0.2464	0.1271
2019	139	14	27	11	169.576	-21.731	16	OL03	0.3282	0.1454
2019	139	14	27	11	169.576	-21.731	16	OL04	-0.32	0.2268
2019	139	14	27	11	169.576	-21.731	16	OL05	-0.1773	0.1305
2019	139	14	27	11	169.576	-21.731	16	OL06	-0.4764	0.2272
2019	139	14	27	11	169.576	-21.731	16	OL07	0.3164	0.3098
2019	139	14	27	11	169.576	-21.731	16	OL08	0.1182	0.1028
2019	139	14	27	11	169.576	-21.731	16	OL09	-0.3046	0.1817
2019	139	14	27	11	169.576	-21.731	16	OL10	0.5909	0.2262
2019	139	14	27	11	169.576	-21.731	16	OL11	-0.1527	0.2716
2019	150	15	38	1	183.683	-21.754	177.8	OL01	0.0064	0.0395
2019	150	15	38	1	183.683	-21.754	177.8	OL02	0.1355	0.0435
2019	150	15	38	1	183.683	-21.754	177.8	OL03	0.1509	0.043
2019	150	15	38	1	183.683	-21.754	177.8	OL04	0.2255	0.0595
2019	150	15	38	1	183.683	-21.754	177.8	OL05	0.1955	0.0652
2019	150	15	38	1	183.683	-21.754	177.8	OL06	-0.1236	0.061
2019	150	15	38	1	183.683	-21.754	177.8	OL07	0.3627	0.0927
2019	150	15	38	1	183.683	-21.754	177.8	OL08	-0.0636	0.0544
2019	150	15	38	1	183.683	-21.754	177.8	OL09	-0.2509	0.0445
2019	150	15	38	1	183.683	-21.754	177.8	OL10	-0.28	0.0411
2019	150	15	38	1	183.683	-21.754	177.8	OL11	-0.3582	0.0631
2019	153	10	36	29	186.09	-21.207	10	OL01	-0.08	0.0167
2019	153	10	36	29	186.09	-21.207	10	OL02	0.0036	0.0151
2019	153	10	36	29	186.09	-21.207	10	OL03	0.0609	0.0219
2019	153	10	36	29	186.09	-21.207	10	OL04	0.1246	0.0187
2019	153	10	36	29	186.09	-21.207	10	OL05	0.0518	0.0197
2019	153	10	36	29	186.09	-21.207	10	OL06	-0.1036	0.0132
2019	153	10	36	29	186.09	-21.207	10	OL07	0.2727	0.0276
2019	153	10	36	29	186.09	-21.207	10	OL08	-0.0418	0.0236

2019	153	10	36	29	186.09	-21.207	10	OL09	-0.1391	0.0291
2019	153	10	36	29	186.09	-21.207	10	OL10	-0.1145	0.0235
2019	153	10	36	29	186.09	-21.207	10	OL11	-0.0345	0.0114
2019	154	5	57	9	97.722	0.378	19	OL01	-0.1318	0.0175
2019	154	5	57	9	97.722	0.378	19	OL02	-0.1446	0.0223
2019	154	5	57	9	97.722	0.378	19	OL03	-0.25	0.019
2019	154	5	57	9	97.722	0.378	19	OL04	-0.3764	0.0311
2019	154	5	57	9	97.722	0.378	19	OL05	-0.4255	0.027
2019	154	5	57	9	97.722	0.378	19	OL06	0.0127	0.0267
2019	154	5	57	9	97.722	0.378	19	OL07	-0.09	0.0285
2019	154	5	57	9	97.722	0.378	19	OL08	0.0645	0.0191
2019	154	5	57	9	97.722	0.378	19	OL09	0.2227	0.0188
2019	154	5	57	9	97.722	0.378	19	OL10	0.6182	0.0188
2019	154	5	57	9	97.722	0.378	19	OL11	0.5	0.0132
2019	155	9	46	18	121.686	22.903	10	OL01	0.4318	0.0224
2019	155	9	46	18	121.686	22.903	10	OL02	0.21	0.0119
2019	155	9	46	18	121.686	22.903	10	OL03	0.3327	0.0318
2019	155	9	46	18	121.686	22.903	10	OL04	-0.2491	0.0811
2019	155	9	46	18	121.686	22.903	10	OL05	-0.2	0.0349
2019	155	9	46	18	121.686	22.903	10	OL06	-0.5327	0.0702
2019	155	9	46	18	121.686	22.903	10	OL07	-0.1491	0.0218
2019	155	9	46	18	121.686	22.903	10	OL08	-0.3609	0.0619
2019	155	9	46	18	121.686	22.903	10	OL09	-0.0182	0.0429
2019	155	9	46	18	121.686	22.903	10	OL10	0.3545	0.0578
2019	155	9	46	18	121.686	22.903	10	OL11	0.1809	0.0323
2019	166	21	56	10	185.831	-21.181	13	OL01	-0.1482	0.0325
2019	166	21	56	10	185.831	-21.181	13	OL02	-0.0227	0.0662
2019	166	21	56	10	185.831	-21.181	13	OL03	0.09	0.0734
2019	166	21	56	10	185.831	-21.181	13	OL04	0.2336	0.0787
2019	166	21	56	10	185.831	-21.181	13	OL05	-0.0618	0.0699
2019	166	21	56	10	185.831	-21.181	13	OL06	-0.05	0.0411
2019	166	21	56	10	185.831	-21.181	13	OL07	0.4718	0.086
2019	166	21	56	10	185.831	-21.181	13	OL08	-0.0791	0.0622
2019	166	21	56	10	185.831	-21.181	13	OL09	-0.2891	0.0403
2019	166	21	56	10	185.831	-21.181	13	OL10	-0.2209	0.082
2019	166	21	56	10	185.831	-21.181	13	OL11	0.0764	0.0781
2019	166	22	55	4	181.9	-30.644	46	OL01	-0.4909	0.0286

2019	166	22	55	4	181.9	-30.644	46	OL02	-0.1664	0.0235
2019	166	22	55	4	181.9	-30.644	46	OL03	0.0155	0.0245
2019	166	22	55	4	181.9	-30.644	46	OL04	-0.4064	0.0224
2019	166	22	55	4	181.9	-30.644	46	OL05	-0.2645	0.0125
2019	166	22	55	4	181.9	-30.644	46	OL06	0.0945	0.0185
2019	166	22	55	4	181.9	-30.644	46	OL07	0.2791	0.0241
2019	166	22	55	4	181.9	-30.644	46	OL08	0.4191	0.0355
2019	166	22	55	4	181.9	-30.644	46	OL09	0.0855	0.019
2019	166	22	55	4	181.9	-30.644	46	OL10	0.0391	0.0294
2019	166	22	55	4	181.9	-30.644	46	OL11	0.3955	0.022
2019	167	5	17	14	181.918	-31	21	OL01	-0.7046	0.1564
2019	167	5	17	14	181.918	-31	21	OL02	-0.6782	0.175
2019	167	5	17	14	181.918	-31	21	OL03	-0.1182	0.1669
2019	167	5	17	14	181.918	-31	21	OL04	-0.5291	0.1498
2019	167	5	17	14	181.918	-31	21	OL05	-0.3091	0.1424
2019	167	5	17	14	181.918	-31	21	OL06	-0.02	0.1787
2019	167	5	17	14	181.918	-31	21	OL07	0.3782	0.1742
2019	167	5	17	14	181.918	-31	21	OL08	0.4382	0.1933
2019	167	5	17	14	181.918	-31	21	OL09	0.3382	0.2226
2019	167	5	17	14	181.918	-31	21	OL10	0.47	0.1832
2019	167	5	17	14	181.918	-31	21	OL11	0.7345	0.2027
2019	168	6	2	4	182.519	-30.839	12	OL01	-0.63	0.0229
2019	168	6	2	4	182.519	-30.839	12	OL02	-0.4209	0.0448
2019	168	6	2	4	182.519	-30.839	12	OL03	0.0327	0.0307
2019	168	6	2	4	182.519	-30.839	12	OL04	-0.1927	0.0468
2019	168	6	2	4	182.519	-30.839	12	OL05	-0.3191	0.0322
2019	168	6	2	4	182.519	-30.839	12	OL06	0.1109	0.0274
2019	168	6	2	4	182.519	-30.839	12	OL07	0.3691	0.0438
2019	168	6	2	4	182.519	-30.839	12	OL08	0.34	0.0414
2019	168	6	2	4	182.519	-30.839	12	OL09	0.05	0.0397
2019	168	6	2	4	182.519	-30.839	12	OL10	0.2727	0.0308
2019	168	6	2	4	182.519	-30.839	12	OL11	0.3873	0.0388
2019	170	7	1	45	182.152	-30.524	30	OL01	-0.7318	0.0697
2019	170	7	1	45	182.152	-30.524	30	OL02	-0.6709	0.0264
2019	170	7	1	45	182.152	-30.524	30	OL03	-0.0209	0.0839
2019	170	7	1	45	182.152	-30.524	30	OL04	-0.28	0.0801
2019	170	7	1	45	182.152	-30.524	30	OL05	-0.3991	0.0344

2019	170	7	1	45	182.152	-30.524	30	OL06	0.3645	0.0682
2019	170	7	1	45	182.152	-30.524	30	OL07	0.3864	0.0865
2019	170	7	1	45	182.152	-30.524	30	OL08	0.4618	0.0295
2019	170	7	1	45	182.152	-30.524	30	OL09	0.1709	0.0941
2019	170	7	1	45	182.152	-30.524	30	OL10	0.2964	0.0749
2019	170	7	1	45	182.152	-30.524	30	OL11	0.4227	0.0394
2019	172	8	37	16	182.532	-30.859	14	OL01	-0.5591	0.0148
2019	172	8	37	16	182.532	-30.859	14	OL02	-0.4445	0.0196
2019	172	8	37	16	182.532	-30.859	14	OL03	0.0818	0.0202
2019	172	8	37	16	182.532	-30.859	14	OL04	-0.2073	0.0181
2019	172	8	37	16	182.532	-30.859	14	OL05	-0.3282	0.0157
2019	172	8	37	16	182.532	-30.859	14	OL06	0.2273	0.0141
2019	172	8	37	16	182.532	-30.859	14	OL07	0.3591	0.0194
2019	172	8	37	16	182.532	-30.859	14	OL08	0.2809	0.0194
2019	172	8	37	16	182.532	-30.859	14	OL09	-0.0573	0.0174
2019	172	8	37	16	182.532	-30.859	14	OL10	0.3027	0.0219
2019	172	8	37	16	182.532	-30.859	14	OL11	0.3445	0.0161
2019	175	2	53	39	129.169	-6.408	212	OL01	0.27	0.0153
2019	175	2	53	39	129.169	-6.408	212	OL02	0.2182	0.0151
2019	175	2	53	39	129.169	-6.408	212	OL03	0.1245	0.011
2019	175	2	53	39	129.169	-6.408	212	OL04	-0.1791	0.0088
2019	175	2	53	39	129.169	-6.408	212	OL05	-0.0273	0.0089
2019	175	2	53	39	129.169	-6.408	212	OL06	-0.4582	0.0069
2019	175	2	53	39	129.169	-6.408	212	OL07	-0.1191	0.0078
2019	175	2	53	39	129.169	-6.408	212	OL08	0.5009	0.0332
2019	175	2	53	39	129.169	-6.408	212	OL09	-0.2755	0.0174
2019	175	2	53	39	129.169	-6.408	212	OL10	-0.3027	0.0172
2019	175	2	53	39	129.169	-6.408	212	OL11	0.2482	0.0188
2019	175	11	34	8	182.647	-30.763	10	OL01	-0.6173	0.0627
2019	175	11	34	8	182.647	-30.763	10	OL02	-0.4746	0.0823
2019	175	11	34	8	182.647	-30.763	10	OL03	-0.0846	0.0697
2019	175	11	34	8	182.647	-30.763	10	OL04	-0.1764	0.0816
2019	175	11	34	8	182.647	-30.763	10	OL05	-0.2691	0.0524
2019	175	11	34	8	182.647	-30.763	10	OL06	0.1418	0.0848
2019	175	11	34	8	182.647	-30.763	10	OL07	0.3418	0.0907
2019	175	11	34	8	182.647	-30.763	10	OL08	0.2882	0.0817
2019	175	11	34	8	182.647	-30.763	10	OL09	0.1127	0.0728

2019	175	11	34	8	182.647	-30.763	10	OL10	0.3	0.0728
2019	175	11	34	8	182.647	-30.763	10	OL11	0.4373	0.0783
2019	176	9	5	40	164.233	56.202	10	OL01	-0.4709	0.0973
2019	176	9	5	40	164.233	56.202	10	OL02	-0.5255	0.0963
2019	176	9	5	40	164.233	56.202	10	OL03	0.0445	0.1032
2019	176	9	5	40	164.233	56.202	10	OL04	-0.1045	0.095
2019	176	9	5	40	164.233	56.202	10	OL05	-0.3827	0.078
2019	176	9	5	40	164.233	56.202	10	OL06	0.0018	0.1204
2019	176	9	5	40	164.233	56.202	10	OL07	0.1345	0.1341
2019	176	9	5	40	164.233	56.202	10	OL08	0.3645	0.1381
2019	176	9	5	40	164.233	56.202	10	OL09	0.3	0.1247
2019	176	9	5	40	164.233	56.202	10	OL10	0.3991	0.1281
2019	176	9	5	40	164.233	56.202	10	OL11	0.2391	0.1229
2019	177	2	18	7	164.088	56.182	10	OL01	-0.1582	0.0116
2019	177	2	18	7	164.088	56.182	10	OL02	-0.2664	0.0122
2019	177	2	18	7	164.088	56.182	10	OL03	0.2245	0.0053
2019	177	2	18	7	164.088	56.182	10	OL04	0.0073	0.006
2019	177	2	18	7	164.088	56.182	10	OL05	-0.3591	0.0077
2019	177	2	18	7	164.088	56.182	10	OL06	-0.0109	0.0106
2019	177	2	18	7	164.088	56.182	10	OL07	0.0654	0.0075
2019	177	2	18	7	164.088	56.182	10	OL08	0.2754	0.0076
2019	177	2	18	7	164.088	56.182	10	OL09	0.2264	0.0072
2019	177	2	18	7	164.088	56.182	10	OL10	0.0309	0.008
2019	177	2	18	7	164.088	56.182	10	OL11	-0.0355	0.0092
2019	178	11	4	56	180.818	-30.396	10	OL01	-0.6091	0.0807
2019	178	11	4	56	180.818	-30.396	10	OL02	-0.3446	0.1127
2019	178	11	4	56	180.818	-30.396	10	OL03	0.0554	0.1158
2019	178	11	4	56	180.818	-30.396	10	OL04	-0.1427	0.0743
2019	178	11	4	56	180.818	-30.396	10	OL05	-0.3391	0.0612
2019	178	11	4	56	180.818	-30.396	10	OL06	0.1336	0.1056
2019	178	11	4	56	180.818	-30.396	10	OL07	0.3327	0.0996
2019	178	11	4	56	180.818	-30.396	10	OL08	0.3691	0.0916
2019	178	11	4	56	180.818	-30.396	10	OL09	-0.0527	0.0868
2019	178	11	4	56	180.818	-30.396	10	OL10	0.2973	0.0893
2019	178	11	4	56	180.818	-30.396	10	OL11	0.3	0.0705
2019	187	3	19	53	242.401	35.77	8	OL01	-0.1909	0.07
2019	187	3	19	53	242.401	35.77	8	OL02	-0.3446	0.0684

2019	187	3	19	53	242.401	35.77	8	OL03	0.1645	0.1008
2019	187	3	19	53	242.401	35.77	8	OL04	-0.2827	0.0556
2019	187	3	19	53	242.401	35.77	8	OL05	-0.0564	0.0729
2019	187	3	19	53	242.401	35.77	8	OL06	-0.0309	0.0772
2019	187	3	19	53	242.401	35.77	8	OL07	0.2209	0.0704
2019	187	3	19	53	242.401	35.77	8	OL08	0.2609	0.0646
2019	187	3	19	53	242.401	35.77	8	OL09	0.3009	0.0605
2019	187	3	19	53	242.401	35.77	8	OL10	0.0263	0.0577
2019	187	3	19	53	242.401	35.77	8	OL11	-0.0682	0.0643
2019	195	5	39	23	120.358	-18.224	10	OL01	0.0845	0.0235
2019	195	5	39	23	120.358	-18.224	10	OL02	0.0318	0.0167
2019	195	5	39	23	120.358	-18.224	10	OL03	-0.1136	0.0215
2019	195	5	39	23	120.358	-18.224	10	OL04	-0.2509	0.0233
2019	195	5	39	23	120.358	-18.224	10	OL05	0.21	0.0359
2019	195	5	39	23	120.358	-18.224	10	OL06	-0.3055	0.0213
2019	195	5	39	23	120.358	-18.224	10	OL07	-0.1109	0.0198
2019	195	5	39	23	120.358	-18.224	10	OL08	0.56	0.0287
2019	195	5	39	23	120.358	-18.224	10	OL09	-0.1536	0.0238
2019	195	5	39	23	120.358	-18.224	10	OL10	-0.2427	0.0282
2019	195	5	39	23	120.358	-18.224	10	OL11	0.2909	0.0219
2019	207	23	37	58	121.974	20.837	9	OL01	0.6645	0.1371
2019	207	23	37	58	121.974	20.837	9	OL02	0.5464	0.0851
2019	207	23	37	58	121.974	20.837	9	OL03	0.3045	0.2317
2019	207	23	37	58	121.974	20.837	9	OL04	0.3218	0.1106
2019	207	23	37	58	121.974	20.837	9	OL05	-0.1136	0.1203
2019	207	23	37	58	121.974	20.837	9	OL06	-0.4573	0.1944
2019	207	23	37	58	121.974	20.837	9	OL07	0.0836	0.0487
2019	207	23	37	58	121.974	20.837	9	OL08	-0.5673	0.1837
2019	207	23	37	58	121.974	20.837	9	OL09	-0.0491	0.2336
2019	207	23	37	58	121.974	20.837	9	OL10	-0.3418	0.1543
2019	207	23	37	58	121.974	20.837	9	OL11	-0.3918	0.1315
2019	212	15	2	33	167.998	-16.198	181	OL01	-0.2173	0.0254
2019	212	15	2	33	167.998	-16.198	181	OL02	0.2546	0.0243
2019	212	15	2	33	167.998	-16.198	181	OL03	0.2282	0.0172
2019	212	15	2	33	167.998	-16.198	181	OL04	-0.1782	0.0116
2019	212	15	2	33	167.998	-16.198	181	OL05	-0.1254	0.0041
2019	212	15	2	33	167.998	-16.198	181	OL06	0.0673	0.0098

2019	212	15	2	33	167.998	-16.198	181	OL07	0.0964	0.0088
2019	212	15	2	33	167.998	-16.198	181	OL08	-0.1464	0.0061
2019	212	15	2	33	167.998	-16.198	181	OL09	-0.1227	0.0073
2019	212	15	2	33	167.998	-16.198	181	OL10	0.1018	0.0107
2019	212	15	2	33	167.998	-16.198	181	OL11	0.0418	0.0092
2019	214	12	3	27	104.791	-7.282	49	OL01	-0.0882	0.035
2019	214	12	3	27	104.791	-7.282	49	OL02	-0.2055	0.0269
2019	214	12	3	27	104.791	-7.282	49	OL03	-0.2873	0.037
2019	214	12	3	27	104.791	-7.282	49	OL04	-0.4627	0.0356
2019	214	12	3	27	104.791	-7.282	49	OL05	-0.1945	0.0328
2019	214	12	3	27	104.791	-7.282	49	OL06	0.1082	0.0244
2019	214	12	3	27	104.791	-7.282	49	OL07	-0.1127	0.0641
2019	214	12	3	27	104.791	-7.282	49	OL08	0.3245	0.0242
2019	214	12	3	27	104.791	-7.282	49	OL09	0.0445	0.0273
2019	214	12	3	27	104.791	-7.282	49	OL10	0.4091	0.0258
2019	214	12	3	27	104.791	-7.282	49	OL11	0.4645	0.0221
2019	241	15	7	58	232.118	43.542	10	OL01	0.0555	0.2833
2019	241	15	7	58	232.118	43.542	10	OL02	-0.6255	0.2813
2019	241	15	7	58	232.118	43.542	10	OL03	0.0527	0.2646
2019	241	15	7	58	232.118	43.542	10	OL04	-0.3664	0.2642
2019	241	15	7	58	232.118	43.542	10	OL05	-0.18	0.1791
2019	241	15	7	58	232.118	43.542	10	OL06	0.3109	0.2019
2019	241	15	7	58	232.118	43.542	10	OL07	0.2373	0.2286
2019	241	15	7	58	232.118	43.542	10	OL08	0.1473	0.214
2019	241	15	7	58	232.118	43.542	10	OL09	0.2427	0.2459
2019	241	15	7	58	232.118	43.542	10	OL10	0.14	0.1601
2019	241	15	7	58	232.118	43.542	10	OL11	-0.0145	0.3037
2019	244	15	54	20	181.43	-20.364	591	OL01	-0.1418	0.0342
2019	244	15	54	20	181.43	-20.364	591	OL02	0.0554	0.0366
2019	244	15	54	20	181.43	-20.364	591	OL03	0.0363	0.0348
2019	244	15	54	20	181.43	-20.364	591	OL04	0.1718	0.0373
2019	244	15	54	20	181.43	-20.364	591	OL05	0.1673	0.0367
2019	244	15	54	20	181.43	-20.364	591	OL06	-0.15	0.0318
2019	244	15	54	20	181.43	-20.364	591	OL07	0.31	0.0508
2019	244	15	54	20	181.43	-20.364	591	OL08	0.0982	0.0513
2019	244	15	54	20	181.43	-20.364	591	OL09	-0.2118	0.0447
2019	244	15	54	20	181.43	-20.364	591	OL10	-0.1991	0.0413

2019	244	15	54	20	181.43	-20.364	591	OL11	-0.1364	0.0393
2019	294	2	52	29	169.488	-19.018	231	OL01	-0.2564	0.0574
2019	294	2	52	29	169.488	-19.018	231	OL02	0.0045	0.0215
2019	294	2	52	29	169.488	-19.018	231	OL03	0.2254	0.0267
2019	294	2	52	29	169.488	-19.018	231	OL04	-0.2046	0.078
2019	294	2	52	29	169.488	-19.018	231	OL05	0.0018	0.0593
2019	294	2	52	29	169.488	-19.018	231	OL06	0.1645	0.0226
2019	294	2	52	29	169.488	-19.018	231	OL07	0.1564	0.0219
2019	294	2	52	29	169.488	-19.018	231	OL08	-0.1055	0.0269
2019	294	2	52	29	169.488	-19.018	231	OL09	-0.1018	0.0282
2019	294	2	52	29	169.488	-19.018	231	OL10	0.1009	0.0366
2019	294	2	52	29	169.488	-19.018	231	OL11	0.0145	0.0299

**Table S2.** Relative travel time measurements (dt) and uncertainty of high-frequency filtered (0.0625–0.125 Hz) teleseismic P-waveforms at each station, obtained through the MCCC method (VanDecar & Crosson, 1990). The table includes event information such as the date and time of the event (hour, minute, and second), as well as location of the event, which is specified by its longitude, latitude, and depth based on USGS list. An example of high-frequency filtered seismic traces showing relative travelttime measurement for an earthquake occurred on Dec. 20, 2018 is shown in **Figure S20a**.

Year	Julian day	Hour	Min	Sec	Lon (°)	Lat (°)	Depth (km)	Station	dt (s)	Uncertainty (s)
2018	310	16	11	39	185.47	-22.185	10	OL01	-0.0188	0.0828
2018	310	16	11	39	185.47	-22.185	10	OL03	0.2325	0.1479
2018	310	16	11	39	185.47	-22.185	10	OL06	-0.0775	0.1351
2018	310	16	11	39	185.47	-22.185	10	OL07	0.0437	0.111
2018	310	16	11	39	185.47	-22.185	10	OL08	-0.0713	0.1169
2018	310	16	11	39	185.47	-22.185	10	OL09	-0.1575	0.1062
2018	310	16	11	39	185.47	-22.185	10	OL10	-0.0112	0.1383
2018	310	16	11	39	185.47	-22.185	10	OL11	0.06	0.1662
2018	314	8	33	21	185.992	-20.454	35	OL01	0.0627	0.0633
2018	314	8	33	21	185.992	-20.454	35	OL02	0.0445	0.0503
2018	314	8	33	21	185.992	-20.454	35	OL03	0.1754	0.0578
2018	314	8	33	21	185.992	-20.454	35	OL04	0.5773	0.0765
2018	314	8	33	21	185.992	-20.454	35	OL05	0.2354	0.0477
2018	314	8	33	21	185.992	-20.454	35	OL06	-0.2864	0.0596
2018	314	8	33	21	185.992	-20.454	35	OL07	-0.1709	0.0488
2018	314	8	33	21	185.992	-20.454	35	OL08	-0.1	0.0597
2018	314	8	33	21	185.992	-20.454	35	OL09	-0.2682	0.0265
2018	314	8	33	21	185.992	-20.454	35	OL10	-0.1709	0.0524
2018	314	8	33	21	185.992	-20.454	35	OL11	-0.0991	0.0303
2018	318	21	21	50	161.994	55.641	49	OL01	-0.5182	0.0689
2018	318	21	21	50	161.994	55.641	49	OL02	-0.6773	0.1033
2018	318	21	21	50	161.994	55.641	49	OL03	0.3227	0.06
2018	318	21	21	50	161.994	55.641	49	OL04	-0.6146	0.0878
2018	318	21	21	50	161.994	55.641	49	OL05	-0.2855	0.0612
2018	318	21	21	50	161.994	55.641	49	OL06	0.3382	0.0712
2018	318	21	21	50	161.994	55.641	49	OL07	0.1936	0.0456
2018	318	21	21	50	161.994	55.641	49	OL08	0.2709	0.0626
2018	318	21	21	50	161.994	55.641	49	OL09	0.3227	0.0579
2018	318	21	21	50	161.994	55.641	49	OL10	0.4936	0.0474
2018	318	21	21	50	161.994	55.641	49	OL11	0.1536	0.0634
2018	322	20	25	46	181.073	-17.873	540	OL01	0.0082	0.0233
2018	322	20	25	46	181.073	-17.873	540	OL02	-0.1945	0.0464
2018	322	20	25	46	181.073	-17.873	540	OL03	0.1609	0.0299
2018	322	20	25	46	181.073	-17.873	540	OL04	0.7509	0.066
2018	322	20	25	46	181.073	-17.873	540	OL05	-0.2664	0.0249

2018	322	20	25	46	181.073	-17.873	540	OL06	0.0464	0.0152
2018	322	20	25	46	181.073	-17.873	540	OL07	0.0864	0.0143
2018	322	20	25	46	181.073	-17.873	540	OL08	0.09	0.0332
2018	322	20	25	46	181.073	-17.873	540	OL09	-0.0473	0.0216
2018	322	20	25	46	181.073	-17.873	540	OL10	-0.5182	0.0462
2018	322	20	25	46	181.073	-17.873	540	OL11	-0.1164	0.0178
2018	334	17	29	29	210.045	61.346	46.7	OL01	-0.14	0.0437
2018	334	17	29	29	210.045	61.346	46.7	OL02	-0.42	0.044
2018	334	17	29	29	210.045	61.346	46.7	OL03	0.2755	0.0527
2018	334	17	29	29	210.045	61.346	46.7	OL04	-0.0409	0.047
2018	334	17	29	29	210.045	61.346	46.7	OL05	-0.4291	0.0303
2018	334	17	29	29	210.045	61.346	46.7	OL06	0.0691	0.0467
2018	334	17	29	29	210.045	61.346	46.7	OL07	0.1255	0.0467
2018	334	17	29	29	210.045	61.346	46.7	OL08	0.0218	0.0489
2018	334	17	29	29	210.045	61.346	46.7	OL09	0.3391	0.0545
2018	334	17	29	29	210.045	61.346	46.7	OL10	0.3318	0.0542
2018	334	17	29	29	210.045	61.346	46.7	OL11	-0.1327	0.0534
2018	335	13	27	21	128.707	-7.384	136	OL01	-0.02	0.0263
2018	335	13	27	21	128.707	-7.384	136	OL02	-0.0127	0.0379
2018	335	13	27	21	128.707	-7.384	136	OL03	-0.0836	0.0436
2018	335	13	27	21	128.707	-7.384	136	OL04	-0.1027	0.0314
2018	335	13	27	21	128.707	-7.384	136	OL05	0.0155	0.0264
2018	335	13	27	21	128.707	-7.384	136	OL06	-0.1373	0.0189
2018	335	13	27	21	128.707	-7.384	136	OL07	-0.0418	0.0301
2018	335	13	27	21	128.707	-7.384	136	OL08	0.4782	0.0514
2018	335	13	27	21	128.707	-7.384	136	OL09	-0.1218	0.0366
2018	335	13	27	21	128.707	-7.384	136	OL10	-0.0636	0.0344
2018	335	13	27	21	128.707	-7.384	136	OL11	0.09	0.0375
2018	339	4	18	8	169.427	-21.95	10	OL01	-0.1246	0.0715
2018	339	4	18	8	169.427	-21.95	10	OL02	0.2454	0.0721
2018	339	4	18	8	169.427	-21.95	10	OL03	0.0691	0.0761
2018	339	4	18	8	169.427	-21.95	10	OL04	-0.0136	0.08
2018	339	4	18	8	169.427	-21.95	10	OL05	-0.0936	0.0951
2018	339	4	18	8	169.427	-21.95	10	OL06	-0.0927	0.0955
2018	339	4	18	8	169.427	-21.95	10	OL07	0.0591	0.0822
2018	339	4	18	8	169.427	-21.95	10	OL08	-0.0036	0.0901
2018	339	4	18	8	169.427	-21.95	10	OL09	-0.2482	0.1138

2018	339	4	18	8	169.427	-21.95	10	OL10	0.1018	0.0992
2018	339	4	18	8	169.427	-21.95	10	OL11	0.1009	0.0964
2018	340	23	26	59	169.637	-22.352	9	OL01	-0.3418	0.0419
2018	340	23	26	59	169.637	-22.352	9	OL02	0.5882	0.0524
2018	340	23	26	59	169.637	-22.352	9	OL03	0.0482	0.0505
2018	340	23	26	59	169.637	-22.352	9	OL04	-0.2555	0.0552
2018	340	23	26	59	169.637	-22.352	9	OL05	-0.3182	0.0546
2018	340	23	26	59	169.637	-22.352	9	OL06	0.0364	0.0463
2018	340	23	26	59	169.637	-22.352	9	OL07	0.0027	0.0455
2018	340	23	26	59	169.637	-22.352	9	OL08	0.11	0.0527
2018	340	23	26	59	169.637	-22.352	9	OL09	-0.2536	0.046
2018	340	23	26	59	169.637	-22.352	9	OL10	0.2945	0.0418
2018	340	23	26	59	169.637	-22.352	9	OL11	0.0891	0.0478
2018	354	17	1	55	164.699	55.1	16.6	OL01	-0.3055	0.0265
2018	354	17	1	55	164.699	55.1	16.6	OL02	-0.4836	0.0279
2018	354	17	1	55	164.699	55.1	16.6	OL03	0.1518	0.0334
2018	354	17	1	55	164.699	55.1	16.6	OL04	-0.0609	0.023
2018	354	17	1	55	164.699	55.1	16.6	OL05	-0.3273	0.018
2018	354	17	1	55	164.699	55.1	16.6	OL06	0.1082	0.0373
2018	354	17	1	55	164.699	55.1	16.6	OL07	0.0391	0.0274
2018	354	17	1	55	164.699	55.1	16.6	OL08	0.2273	0.0378
2018	354	17	1	55	164.699	55.1	16.6	OL09	0.1964	0.036
2018	354	17	1	55	164.699	55.1	16.6	OL10	0.4418	0.0474
2018	354	17	1	55	164.699	55.1	16.6	OL11	0.0127	0.0436
2018	357	23	8	43	184.929	-20.285	113	OL01	0.0591	0.0164
2018	357	23	8	43	184.929	-20.285	113	OL02	0.1673	0.044
2018	357	23	8	43	184.929	-20.285	113	OL03	0.1936	0.0539
2018	357	23	8	43	184.929	-20.285	113	OL04	0.1973	0.0563
2018	357	23	8	43	184.929	-20.285	113	OL05	-0.12	0.0361
2018	357	23	8	43	184.929	-20.285	113	OL06	-0.1618	0.0608
2018	357	23	8	43	184.929	-20.285	113	OL07	0.25	0.0429
2018	357	23	8	43	184.929	-20.285	113	OL08	-0.1073	0.0485
2018	357	23	8	43	184.929	-20.285	113	OL09	-0.17	0.0375
2018	357	23	8	43	184.929	-20.285	113	OL10	-0.1218	0.0492
2018	357	23	8	43	184.929	-20.285	113	OL11	-0.1864	0.0604
2018	358	12	41	19	164.51	55.344	10	OL01	-0.4445	0.0861
2018	358	12	41	19	164.51	55.344	10	OL02	-0.5009	0.1394

2018	358	12	41	19	164.51	55.344	10	OL03	0.1818	0.0981
2018	358	12	41	19	164.51	55.344	10	OL04	-0.0291	0.1228
2018	358	12	41	19	164.51	55.344	10	OL05	-0.3836	0.1124
2018	358	12	41	19	164.51	55.344	10	OL06	0.1082	0.1108
2018	358	12	41	19	164.51	55.344	10	OL07	-0.0427	0.1521
2018	358	12	41	19	164.51	55.344	10	OL08	0.1609	0.1283
2018	358	12	41	19	164.51	55.344	10	OL09	0.2245	0.1652
2018	358	12	41	19	164.51	55.344	10	OL10	0.5336	0.1239
2018	358	12	41	19	164.51	55.344	10	OL11	0.1918	0.1463
2018	365	2	35	37	198.487	54.427	31	OL01	-0.1364	0.184
2018	365	2	35	37	198.487	54.427	31	OL02	-0.2527	0.2047
2018	365	2	35	37	198.487	54.427	31	OL03	0.4673	0.1442
2018	365	2	35	37	198.487	54.427	31	OL04	-0.1736	0.2056
2018	365	2	35	37	198.487	54.427	31	OL05	-0.4991	0.1309
2018	365	2	35	37	198.487	54.427	31	OL06	0.1818	0.1268
2018	365	2	35	37	198.487	54.427	31	OL07	0.17	0.1364
2018	365	2	35	37	198.487	54.427	31	OL08	-0.0182	0.1536
2018	365	2	35	37	198.487	54.427	31	OL09	0.0527	0.2639
2018	365	2	35	37	198.487	54.427	31	OL10	0.2936	0.0826
2018	365	2	35	37	198.487	54.427	31	OL11	-0.0855	0.1435
2019	18	13	18	31	168.745	-19.204	38.7	OL01	-0.2209	0.0565
2019	18	13	18	31	168.745	-19.204	38.7	OL02	-0.0918	0.0833
2019	18	13	18	31	168.745	-19.204	38.7	OL03	0.0945	0.0541
2019	18	13	18	31	168.745	-19.204	38.7	OL04	0.4464	0.063
2019	18	13	18	31	168.745	-19.204	38.7	OL05	0.1427	0.0643
2019	18	13	18	31	168.745	-19.204	38.7	OL06	-0.5564	0.0576
2019	18	13	18	31	168.745	-19.204	38.7	OL07	0.3145	0.1
2019	18	13	18	31	168.745	-19.204	38.7	OL08	0.5	0.0994
2019	18	13	18	31	168.745	-19.204	38.7	OL09	-0.5755	0.0639
2019	18	13	18	31	168.745	-19.204	38.7	OL10	-0.1536	0.0415
2019	18	13	18	31	168.745	-19.204	38.7	OL11	0.1	0.077
2019	21	23	59	23	119.152	-10.328	26	OL01	-0.2791	0.0597
2019	21	23	59	23	119.152	-10.328	26	OL02	-0.0609	0.0631
2019	21	23	59	23	119.152	-10.328	26	OL03	-0.2091	0.058
2019	21	23	59	23	119.152	-10.328	26	OL04	-0.2555	0.0561
2019	21	23	59	23	119.152	-10.328	26	OL05	0.0182	0.0429
2019	21	23	59	23	119.152	-10.328	26	OL06	-0.1036	0.0641

2019	21	23	59	23	119.152	-10.328	26	OL07	-0.0073	0.0966
2019	21	23	59	23	119.152	-10.328	26	OL08	0.4845	0.0978
2019	21	23	59	23	119.152	-10.328	26	OL09	-0.1636	0.0351
2019	21	23	59	23	119.152	-10.328	26	OL10	0.2382	0.0895
2019	21	23	59	23	119.152	-10.328	26	OL11	0.3382	0.0595
2019	22	5	10	3	119.016	-10.415	24	OL01	-0.3445	0.075
2019	22	5	10	3	119.016	-10.415	24	OL02	-0.2164	0.0804
2019	22	5	10	3	119.016	-10.415	24	OL03	-0.2245	0.0726
2019	22	5	10	3	119.016	-10.415	24	OL04	-0.2382	0.0839
2019	22	5	10	3	119.016	-10.415	24	OL05	-0.02	0.0715
2019	22	5	10	3	119.016	-10.415	24	OL06	-0.0473	0.0655
2019	22	5	10	3	119.016	-10.415	24	OL07	-0.0745	0.0585
2019	22	5	10	3	119.016	-10.415	24	OL08	0.4327	0.0851
2019	22	5	10	3	119.016	-10.415	24	OL09	-0.0891	0.0632
2019	22	5	10	3	119.016	-10.415	24	OL10	0.3064	0.0797
2019	22	5	10	3	119.016	-10.415	24	OL11	0.5155	0.0832
2019	26	19	56	44	181.041	-21.047	588	OL01	0.0318	0.0732
2019	26	19	56	44	181.041	-21.047	588	OL02	-0.0345	0.1342
2019	26	19	56	44	181.041	-21.047	588	OL03	0.11	0.0641
2019	26	19	56	44	181.041	-21.047	588	OL04	0.1255	0.0887
2019	26	19	56	44	181.041	-21.047	588	OL05	-0.1236	0.1021
2019	26	19	56	44	181.041	-21.047	588	OL06	-0.1936	0.108
2019	26	19	56	44	181.041	-21.047	588	OL07	0.1527	0.0605
2019	26	19	56	44	181.041	-21.047	588	OL08	0.1118	0.1244
2019	26	19	56	44	181.041	-21.047	588	OL09	-0.2309	0.0954
2019	26	19	56	44	181.041	-21.047	588	OL10	-0.0164	0.1747
2019	26	19	56	44	181.041	-21.047	588	OL11	0.0673	0.127
2019	65	15	46	14	182.115	-32.024	29	OL01	-0.2618	0.0374
2019	65	15	46	14	182.115	-32.024	29	OL02	-0.1964	0.0298
2019	65	15	46	14	182.115	-32.024	29	OL03	0.07	0.0371
2019	65	15	46	14	182.115	-32.024	29	OL04	-0.0473	0.0373
2019	65	15	46	14	182.115	-32.024	29	OL05	-0.2591	0.0202
2019	65	15	46	14	182.115	-32.024	29	OL06	0.0145	0.028
2019	65	15	46	14	182.115	-32.024	29	OL07	0.1	0.0286
2019	65	15	46	14	182.115	-32.024	29	OL08	0.1164	0.0307
2019	65	15	46	14	182.115	-32.024	29	OL09	-0.0318	0.0306
2019	65	15	46	14	182.115	-32.024	29	OL10	0.2182	0.0377

2019	65	15	46	14	182.115	-32.024	29	OL11	0.2773	0.0307
2019	65	20	19	59	182.231	-32.245	9.1	OL01	-0.4391	0.1884
2019	65	20	19	59	182.231	-32.245	9.1	OL02	-0.6264	0.1939
2019	65	20	19	59	182.231	-32.245	9.1	OL03	-0.2964	0.223
2019	65	20	19	59	182.231	-32.245	9.1	OL04	0.2836	0.2487
2019	65	20	19	59	182.231	-32.245	9.1	OL05	-0.1555	0.2217
2019	65	20	19	59	182.231	-32.245	9.1	OL06	-0.0964	0.2046
2019	65	20	19	59	182.231	-32.245	9.1	OL07	-0.0227	0.2375
2019	65	20	19	59	182.231	-32.245	9.1	OL08	0.0818	0.2258
2019	65	20	19	59	182.231	-32.245	9.1	OL09	0.0145	0.2065
2019	65	20	19	59	182.231	-32.245	9.1	OL10	0.4854	0.1982
2019	65	20	19	59	182.231	-32.245	9.1	OL11	0.7709	0.1563
2019	69	8	12	26	181.397	-17.892	578.2	OL01	-0.1491	0.0726
2019	69	8	12	26	181.397	-17.892	578.2	OL02	0.7355	0.109
2019	69	8	12	26	181.397	-17.892	578.2	OL03	0.1636	0.0708
2019	69	8	12	26	181.397	-17.892	578.2	OL04	-0.1064	0.265
2019	69	8	12	26	181.397	-17.892	578.2	OL05	0.1255	0.0359
2019	69	8	12	26	181.397	-17.892	578.2	OL06	-0.3536	0.0835
2019	69	8	12	26	181.397	-17.892	578.2	OL07	0.33	0.1372
2019	69	8	12	26	181.397	-17.892	578.2	OL08	-0.2555	0.0552
2019	69	8	12	26	181.397	-17.892	578.2	OL09	-0.0736	0.194
2019	69	8	12	26	181.397	-17.892	578.2	OL10	-0.3155	0.1389
2019	69	8	12	26	181.397	-17.892	578.2	OL11	-0.1009	0.1628
2019	79	15	23	58	167.655	-15.597	119	OL01	-0.5182	0.241
2019	79	15	23	58	167.655	-15.597	119	OL02	-0.1173	0.1612
2019	79	15	23	58	167.655	-15.597	119	OL03	0.0518	0.2606
2019	79	15	23	58	167.655	-15.597	119	OL04	-0.15	0.151
2019	79	15	23	58	167.655	-15.597	119	OL05	-0.4264	0.172
2019	79	15	23	58	167.655	-15.597	119	OL06	0.1327	0.103
2019	79	15	23	58	167.655	-15.597	119	OL07	0.0736	0.08
2019	79	15	23	58	167.655	-15.597	119	OL08	0.3682	0.1707
2019	79	15	23	58	167.655	-15.597	119	OL09	-0.0809	0.1988
2019	79	15	23	58	167.655	-15.597	119	OL10	0.1564	0.2393
2019	79	15	23	58	167.655	-15.597	119	OL11	0.51	0.2569
2019	87	22	6	49	159.943	50.495	9	OL01	-0.0491	0.1098
2019	87	22	6	49	159.943	50.495	9	OL02	-0.2518	0.1171
2019	87	22	6	49	159.943	50.495	9	OL03	0.3109	0.1389

2019	87	22	6	49	159.943	50.495	9	OL04	-0.09	0.1648
2019	87	22	6	49	159.943	50.495	9	OL05	-0.2182	0.159
2019	87	22	6	49	159.943	50.495	9	OL06	-0.2855	0.1027
2019	87	22	6	49	159.943	50.495	9	OL07	0.1454	0.1576
2019	87	22	6	49	159.943	50.495	9	OL08	0.0291	0.1132
2019	87	22	6	49	159.943	50.495	9	OL09	0.32	0.1403
2019	87	22	6	49	159.943	50.495	9	OL10	0.2136	0.2099
2019	87	22	6	49	159.943	50.495	9	OL11	-0.1246	0.1731
2019	92	21	35	30	178.071	52.17	8	OL01	-0.0918	0.0465
2019	92	21	35	30	178.071	52.17	8	OL02	-0.3691	0.0861
2019	92	21	35	30	178.071	52.17	8	OL03	0.3073	0.0706
2019	92	21	35	30	178.071	52.17	8	OL04	-0.0091	0.068
2019	92	21	35	30	178.071	52.17	8	OL05	-0.6218	0.0446
2019	92	21	35	30	178.071	52.17	8	OL06	0.21	0.0427
2019	92	21	35	30	178.071	52.17	8	OL07	0.3291	0.071
2019	92	21	35	30	178.071	52.17	8	OL08	-0.1027	0.0723
2019	92	21	35	30	178.071	52.17	8	OL09	0.2346	0.0419
2019	92	21	35	30	178.071	52.17	8	OL10	0.3746	0.0455
2019	92	21	35	30	178.071	52.17	8	OL11	-0.2609	0.0683
2019	102	11	40	49	122.58	-1.815	15.5	OL01	0.1873	0.0366
2019	102	11	40	49	122.58	-1.815	15.5	OL02	0.2136	0.0367
2019	102	11	40	49	122.58	-1.815	15.5	OL03	0.1527	0.0292
2019	102	11	40	49	122.58	-1.815	15.5	OL04	0.01	0.0353
2019	102	11	40	49	122.58	-1.815	15.5	OL05	-0.0864	0.0304
2019	102	11	40	49	122.58	-1.815	15.5	OL06	-0.2691	0.0215
2019	102	11	40	49	122.58	-1.815	15.5	OL07	-0.16	0.0264
2019	102	11	40	49	122.58	-1.815	15.5	OL08	0.0836	0.0338
2019	102	11	40	49	122.58	-1.815	15.5	OL09	-0.2791	0.0223
2019	102	11	40	49	122.58	-1.815	15.5	OL10	0.0664	0.0289
2019	102	11	40	49	122.58	-1.815	15.5	OL11	0.0809	0.0267
2019	108	5	1	6	121.65	24.037	20	OL01	0.1591	0.0108
2019	108	5	1	6	121.65	24.037	20	OL02	0.2109	0.0112
2019	108	5	1	6	121.65	24.037	20	OL03	0.2736	0.0123
2019	108	5	1	6	121.65	24.037	20	OL04	-0.04	0.0076
2019	108	5	1	6	121.65	24.037	20	OL05	-0.3609	0.0102
2019	108	5	1	6	121.65	24.037	20	OL06	0.0118	0.0125
2019	108	5	1	6	121.65	24.037	20	OL07	0.1346	0.0192

2019	108	5	1	6	121.65	24.037	20	OL08	-0.6282	0.021
2019	108	5	1	6	121.65	24.037	20	OL09	0.2736	0.0168
2019	108	5	1	6	121.65	24.037	20	OL10	0.3264	0.018
2019	108	5	1	6	121.65	24.037	20	OL11	-0.3609	0.0203
2019	108	14	46	1	139.321	-51.127	10	OL01	-0.4736	0.1133
2019	108	14	46	1	139.321	-51.127	10	OL02	-0.4609	0.0915
2019	108	14	46	1	139.321	-51.127	10	OL03	0.0464	0.2179
2019	108	14	46	1	139.321	-51.127	10	OL04	-0.1427	0.1898
2019	108	14	46	1	139.321	-51.127	10	OL05	0.0545	0.1882
2019	108	14	46	1	139.321	-51.127	10	OL06	-0.0373	0.1185
2019	108	14	46	1	139.321	-51.127	10	OL07	-0.0146	0.2548
2019	108	14	46	1	139.321	-51.127	10	OL08	0.6354	0.2057
2019	108	14	46	1	139.321	-51.127	10	OL09	-0.1646	0.2662
2019	108	14	46	1	139.321	-51.127	10	OL10	0.25	0.078
2019	108	14	46	1	139.321	-51.127	10	OL11	0.3073	0.1877
2019	112	9	11	12	120.515	14.954	21.8	OL01	0.1264	0.1412
2019	112	9	11	12	120.515	14.954	21.8	OL02	0.0564	0.1568
2019	112	9	11	12	120.515	14.954	21.8	OL03	0.1518	0.2612
2019	112	9	11	12	120.515	14.954	21.8	OL04	-0.0891	0.2512
2019	112	9	11	12	120.515	14.954	21.8	OL05	-0.2182	0.1671
2019	112	9	11	12	120.515	14.954	21.8	OL06	-0.0773	0.166
2019	112	9	11	12	120.515	14.954	21.8	OL07	-0.1136	0.3075
2019	112	9	11	12	120.515	14.954	21.8	OL08	-0.3746	0.2056
2019	112	9	11	12	120.515	14.954	21.8	OL09	0.2536	0.2029
2019	112	9	11	12	120.515	14.954	21.8	OL10	0.4773	0.1435
2019	112	9	11	12	120.515	14.954	21.8	OL11	-0.1927	0.1947
2019	113	14	20	17	181.236	-24.706	385.6	OL01	-0.3591	0.0394
2019	113	14	20	17	181.236	-24.706	385.6	OL02	-0.2318	0.1152
2019	113	14	20	17	181.236	-24.706	385.6	OL03	0.0164	0.0573
2019	113	14	20	17	181.236	-24.706	385.6	OL04	0.2327	0.1174
2019	113	14	20	17	181.236	-24.706	385.6	OL05	-0.2636	0.0446
2019	113	14	20	17	181.236	-24.706	385.6	OL06	-0.0255	0.044
2019	113	14	20	17	181.236	-24.706	385.6	OL07	0.2218	0.0942
2019	113	14	20	17	181.236	-24.706	385.6	OL08	0.0373	0.0552
2019	113	14	20	17	181.236	-24.706	385.6	OL09	-0.0691	0.0952
2019	113	14	20	17	181.236	-24.706	385.6	OL10	0.1645	0.1281
2019	113	14	20	17	181.236	-24.706	385.6	OL11	0.2764	0.033

2019	130	3	23	33	183.221	-28.668	10	OL01	0.0918	0.1317
2019	130	3	23	33	183.221	-28.668	10	OL02	-0.0691	0.1101
2019	130	3	23	33	183.221	-28.668	10	OL03	-0.0155	0.1737
2019	130	3	23	33	183.221	-28.668	10	OL04	-0.1709	0.1311
2019	130	3	23	33	183.221	-28.668	10	OL05	-0.0273	0.1012
2019	130	3	23	33	183.221	-28.668	10	OL06	-0.0464	0.0816
2019	130	3	23	33	183.221	-28.668	10	OL07	0.2355	0.0879
2019	130	3	23	33	183.221	-28.668	10	OL08	0.0327	0.0913
2019	130	3	23	33	183.221	-28.668	10	OL09	-0.11	0.094
2019	130	3	23	33	183.221	-28.668	10	OL10	-0.0127	0.0776
2019	130	3	23	33	183.221	-28.668	10	OL11	0.0918	0.0905
2019	139	1	23	29	169.778	-21.662	20	OL01	-0.2418	0.0085
2019	139	1	23	29	169.778	-21.662	20	OL02	0.1036	0.0082
2019	139	1	23	29	169.778	-21.662	20	OL03	0.1091	0.0101
2019	139	1	23	29	169.778	-21.662	20	OL04	0.1036	0.0101
2019	139	1	23	29	169.778	-21.662	20	OL05	-0.2127	0.0111
2019	139	1	23	29	169.778	-21.662	20	OL06	-0.0973	0.0075
2019	139	1	23	29	169.778	-21.662	20	OL07	-0.04	0.0117
2019	139	1	23	29	169.778	-21.662	20	OL08	0.1782	0.0075
2019	139	1	23	29	169.778	-21.662	20	OL09	-0.2854	0.0092
2019	139	1	23	29	169.778	-21.662	20	OL10	0.1909	0.0088
2019	139	1	23	29	169.778	-21.662	20	OL11	0.1918	0.0088
2019	139	14	27	11	169.576	-21.731	16	OL01	-0.1009	0.1156
2019	139	14	27	11	169.576	-21.731	16	OL02	0.1327	0.0943
2019	139	14	27	11	169.576	-21.731	16	OL03	0.1318	0.0931
2019	139	14	27	11	169.576	-21.731	16	OL04	-0.0064	0.1206
2019	139	14	27	11	169.576	-21.731	16	OL05	-0.1527	0.0835
2019	139	14	27	11	169.576	-21.731	16	OL06	-0.1327	0.0624
2019	139	14	27	11	169.576	-21.731	16	OL07	-0.2318	0.0992
2019	139	14	27	11	169.576	-21.731	16	OL08	-0.0018	0.0705
2019	139	14	27	11	169.576	-21.731	16	OL09	-0.2991	0.0993
2019	139	14	27	11	169.576	-21.731	16	OL10	0.3027	0.1015
2019	139	14	27	11	169.576	-21.731	16	OL11	0.3582	0.0811
2019	143	8	45	17	181.761	51.308	30	OL01	-0.24	0.1261
2019	143	8	45	17	181.761	51.308	30	OL02	-0.3664	0.0879
2019	143	8	45	17	181.761	51.308	30	OL03	0.3182	0.095
2019	143	8	45	17	181.761	51.308	30	OL04	0.0336	0.1202

2019	143	8	45	17	181.761	51.308	30	OL05	-0.6537	0.0831
2019	143	8	45	17	181.761	51.308	30	OL06	-0.0155	0.0907
2019	143	8	45	17	181.761	51.308	30	OL07	0.17	0.0969
2019	143	8	45	17	181.761	51.308	30	OL08	-0.1	0.1475
2019	143	8	45	17	181.761	51.308	30	OL09	0.3754	0.1155
2019	143	8	45	17	181.761	51.308	30	OL10	0.42	0.1353
2019	143	8	45	17	181.761	51.308	30	OL11	0.0582	0.0963
2019	150	15	38	1	183.683	-21.754	177.8	OL01	0.1236	0.0086
2019	150	15	38	1	183.683	-21.754	177.8	OL02	0.1218	0.0079
2019	150	15	38	1	183.683	-21.754	177.8	OL03	0.0418	0.018
2019	150	15	38	1	183.683	-21.754	177.8	OL04	-0.0627	0.0066
2019	150	15	38	1	183.683	-21.754	177.8	OL05	-0.1491	0.0158
2019	150	15	38	1	183.683	-21.754	177.8	OL06	-0.1191	0.012
2019	150	15	38	1	183.683	-21.754	177.8	OL07	0.2509	0.0119
2019	150	15	38	1	183.683	-21.754	177.8	OL08	0.0282	0.0044
2019	150	15	38	1	183.683	-21.754	177.8	OL09	-0.1618	0.0091
2019	150	15	38	1	183.683	-21.754	177.8	OL10	0.01	0.006
2019	150	15	38	1	183.683	-21.754	177.8	OL11	-0.0836	0.0154
2019	153	10	36	29	186.09	-21.207	10	OL01	0.0491	0.0111
2019	153	10	36	29	186.09	-21.207	10	OL02	-0.0327	0.0108
2019	153	10	36	29	186.09	-21.207	10	OL03	0.1364	0.0137
2019	153	10	36	29	186.09	-21.207	10	OL04	0.0309	0.0131
2019	153	10	36	29	186.09	-21.207	10	OL05	-0.2409	0.014
2019	153	10	36	29	186.09	-21.207	10	OL06	-0.0836	0.0066
2019	153	10	36	29	186.09	-21.207	10	OL07	0.2455	0.0141
2019	153	10	36	29	186.09	-21.207	10	OL08	-0.0491	0.0093
2019	153	10	36	29	186.09	-21.207	10	OL09	-0.0845	0.013
2019	153	10	36	29	186.09	-21.207	10	OL10	0.0327	0.0089
2019	153	10	36	29	186.09	-21.207	10	OL11	-0.0036	0.0087
2019	154	5	57	9	97.722	0.378	19	OL01	-0.1773	0.008
2019	154	5	57	9	97.722	0.378	19	OL02	-0.17	0.0093
2019	154	5	57	9	97.722	0.378	19	OL03	0.0309	0.0106
2019	154	5	57	9	97.722	0.378	19	OL04	-0.3464	0.0089
2019	154	5	57	9	97.722	0.378	19	OL05	-0.2918	0.0081
2019	154	5	57	9	97.722	0.378	19	OL06	0.0182	0.0081
2019	154	5	57	9	97.722	0.378	19	OL07	-0.0018	0.007
2019	154	5	57	9	97.722	0.378	19	OL08	0.2391	0.0097

2019	154	5	57	9	97.722	0.378	19	OL09	0.0354	0.0057
2019	154	5	57	9	97.722	0.378	19	OL10	0.4109	0.0101
2019	154	5	57	9	97.722	0.378	19	OL11	0.2527	0.0089
2019	155	9	46	18	121.686	22.903	10	OL01	0.0454	0.0351
2019	155	9	46	18	121.686	22.903	10	OL02	0.1473	0.0379
2019	155	9	46	18	121.686	22.903	10	OL03	0.12	0.0403
2019	155	9	46	18	121.686	22.903	10	OL04	-0.0191	0.047
2019	155	9	46	18	121.686	22.903	10	OL05	-0.5973	0.0663
2019	155	9	46	18	121.686	22.903	10	OL06	-0.0091	0.0536
2019	155	9	46	18	121.686	22.903	10	OL07	0.03	0.0434
2019	155	9	46	18	121.686	22.903	10	OL08	-0.3891	0.0388
2019	155	9	46	18	121.686	22.903	10	OL09	0.2891	0.042
2019	155	9	46	18	121.686	22.903	10	OL10	0.4818	0.0247
2019	155	9	46	18	121.686	22.903	10	OL11	-0.0991	0.032
2019	166	21	56	10	185.831	-21.181	13	OL01	0.0664	0.0149
2019	166	21	56	10	185.831	-21.181	13	OL02	0.1064	0.0164
2019	166	21	56	10	185.831	-21.181	13	OL03	0.1682	0.0103
2019	166	21	56	10	185.831	-21.181	13	OL04	0.0818	0.0196
2019	166	21	56	10	185.831	-21.181	13	OL05	-0.2227	0.0166
2019	166	21	56	10	185.831	-21.181	13	OL06	-0.1745	0.0123
2019	166	21	56	10	185.831	-21.181	13	OL07	0.1573	0.0211
2019	166	21	56	10	185.831	-21.181	13	OL08	-0.0218	0.0074
2019	166	21	56	10	185.831	-21.181	13	OL09	-0.0582	0.0116
2019	166	21	56	10	185.831	-21.181	13	OL10	-0.0891	0.0133
2019	166	21	56	10	185.831	-21.181	13	OL11	-0.0136	0.0136
2019	166	22	55	4	181.9	-30.644	46	OL01	-0.07	0.0224
2019	166	22	55	4	181.9	-30.644	46	OL02	-0.0727	0.0216
2019	166	22	55	4	181.9	-30.644	46	OL03	0.2045	0.0167
2019	166	22	55	4	181.9	-30.644	46	OL04	0.1727	0.0125
2019	166	22	55	4	181.9	-30.644	46	OL05	-0.1873	0.0133
2019	166	22	55	4	181.9	-30.644	46	OL06	0.0182	0.013
2019	166	22	55	4	181.9	-30.644	46	OL07	-0.0645	0.0122
2019	166	22	55	4	181.9	-30.644	46	OL08	0.3236	0.0164
2019	166	22	55	4	181.9	-30.644	46	OL09	-0.3309	0.0076
2019	166	22	55	4	181.9	-30.644	46	OL10	-0.0909	0.0161
2019	166	22	55	4	181.9	-30.644	46	OL11	0.0973	0.0129
2019	167	5	17	14	181.918	-31	21	OL01	-0.2046	0.0146

2019	167	5	17	14	181.918	-31	21	OL02	-0.1255	0.0225
2019	167	5	17	14	181.918	-31	21	OL03	0.0491	0.021
2019	167	5	17	14	181.918	-31	21	OL04	0.1673	0.0305
2019	167	5	17	14	181.918	-31	21	OL05	-0.1218	0.0106
2019	167	5	17	14	181.918	-31	21	OL06	-0.1264	0.0212
2019	167	5	17	14	181.918	-31	21	OL07	0.1009	0.0159
2019	167	5	17	14	181.918	-31	21	OL08	0.1818	0.0143
2019	167	5	17	14	181.918	-31	21	OL09	-0.1264	0.017
2019	167	5	17	14	181.918	-31	21	OL10	0.0418	0.0186
2019	167	5	17	14	181.918	-31	21	OL11	0.1636	0.0122
2019	168	6	2	4	182.519	-30.839	12	OL01	-0.1527	0.036
2019	168	6	2	4	182.519	-30.839	12	OL02	0.1964	0.0569
2019	168	6	2	4	182.519	-30.839	12	OL03	0.14	0.0421
2019	168	6	2	4	182.519	-30.839	12	OL04	-0.0655	0.0628
2019	168	6	2	4	182.519	-30.839	12	OL05	-0.4127	0.042
2019	168	6	2	4	182.519	-30.839	12	OL06	-0.4146	0.0271
2019	168	6	2	4	182.519	-30.839	12	OL07	-0.0218	0.0349
2019	168	6	2	4	182.519	-30.839	12	OL08	0.0127	0.0348
2019	168	6	2	4	182.519	-30.839	12	OL09	-0.0946	0.0285
2019	168	6	2	4	182.519	-30.839	12	OL10	0.5554	0.0335
2019	168	6	2	4	182.519	-30.839	12	OL11	0.2573	0.0316
2019	170	7	1	45	182.152	-30.524	30	OL01	-0.1036	0.0057
2019	170	7	1	45	182.152	-30.524	30	OL02	-0.2027	0.0035
2019	170	7	1	45	182.152	-30.524	30	OL03	0.0618	0.0067
2019	170	7	1	45	182.152	-30.524	30	OL04	0.1118	0.0078
2019	170	7	1	45	182.152	-30.524	30	OL05	-0.1255	0.0096
2019	170	7	1	45	182.152	-30.524	30	OL06	0.0082	0.0047
2019	170	7	1	45	182.152	-30.524	30	OL07	0.0682	0.0043
2019	170	7	1	45	182.152	-30.524	30	OL08	0.1509	0.0035
2019	170	7	1	45	182.152	-30.524	30	OL09	-0.27	0.0055
2019	170	7	1	45	182.152	-30.524	30	OL10	0.1009	0.0035
2019	170	7	1	45	182.152	-30.524	30	OL11	0.2	0.0059
2019	172	8	37	16	182.532	-30.859	14	OL01	-0.2136	0.0483
2019	172	8	37	16	182.532	-30.859	14	OL02	-0.0827	0.0507
2019	172	8	37	16	182.532	-30.859	14	OL03	-0.0582	0.0547
2019	172	8	37	16	182.532	-30.859	14	OL04	0.1145	0.0589
2019	172	8	37	16	182.532	-30.859	14	OL05	-0.0455	0.0547

2019	172	8	37	16	182.532	-30.859	14	OL06	-0.1036	0.0446
2019	172	8	37	16	182.532	-30.859	14	OL07	0.12	0.0503
2019	172	8	37	16	182.532	-30.859	14	OL08	0.1809	0.057
2019	172	8	37	16	182.532	-30.859	14	OL09	-0.1873	0.0476
2019	172	8	37	16	182.532	-30.859	14	OL10	0.0245	0.0456
2019	172	8	37	16	182.532	-30.859	14	OL11	0.2509	0.0452
2019	175	2	53	39	129.169	-6.408	212	OL01	0.1009	0.0417
2019	175	2	53	39	129.169	-6.408	212	OL02	0.3127	0.0413
2019	175	2	53	39	129.169	-6.408	212	OL03	-0.06	0.0333
2019	175	2	53	39	129.169	-6.408	212	OL04	0.0073	0.0382
2019	175	2	53	39	129.169	-6.408	212	OL05	0.1527	0.0378
2019	175	2	53	39	129.169	-6.408	212	OL06	-0.4236	0.0146
2019	175	2	53	39	129.169	-6.408	212	OL07	-0.1173	0.0226
2019	175	2	53	39	129.169	-6.408	212	OL08	0.2945	0.0368
2019	175	2	53	39	129.169	-6.408	212	OL09	-0.3936	0.022
2019	175	2	53	39	129.169	-6.408	212	OL10	-0.0082	0.025
2019	175	2	53	39	129.169	-6.408	212	OL11	0.1345	0.0239
2019	175	11	34	8	182.647	-30.763	10	OL01	-0.0973	0.0155
2019	175	11	34	8	182.647	-30.763	10	OL02	-0.2118	0.0204
2019	175	11	34	8	182.647	-30.763	10	OL03	0.1236	0.0185
2019	175	11	34	8	182.647	-30.763	10	OL04	0.04	0.0129
2019	175	11	34	8	182.647	-30.763	10	OL05	-0.1727	0.0107
2019	175	11	34	8	182.647	-30.763	10	OL06	-0.1637	0.0155
2019	175	11	34	8	182.647	-30.763	10	OL07	0.1336	0.0107
2019	175	11	34	8	182.647	-30.763	10	OL08	0.1127	0.0128
2019	175	11	34	8	182.647	-30.763	10	OL09	-0.1164	0.0142
2019	175	11	34	8	182.647	-30.763	10	OL10	0.1082	0.0076
2019	175	11	34	8	182.647	-30.763	10	OL11	0.2436	0.0042
2019	176	9	5	40	164.233	56.202	10	OL01	0.1018	0.0848
2019	176	9	5	40	164.233	56.202	10	OL02	-0.1382	0.0712
2019	176	9	5	40	164.233	56.202	10	OL03	0.4991	0.0915
2019	176	9	5	40	164.233	56.202	10	OL04	0.0391	0.079
2019	176	9	5	40	164.233	56.202	10	OL05	-0.4845	0.0533
2019	176	9	5	40	164.233	56.202	10	OL06	-0.1527	0.072
2019	176	9	5	40	164.233	56.202	10	OL07	0.0027	0.0774
2019	176	9	5	40	164.233	56.202	10	OL08	-0.0355	0.098
2019	176	9	5	40	164.233	56.202	10	OL09	0.2191	0.0903

2019	176	9	5	40	164.233	56.202	10	OL10	0.2709	0.0999
2019	176	9	5	40	164.233	56.202	10	OL11	-0.3218	0.1171
2019	177	2	18	7	164.088	56.182	10	OL01	0.0427	0.0133
2019	177	2	18	7	164.088	56.182	10	OL02	-0.2409	0.0148
2019	177	2	18	7	164.088	56.182	10	OL03	0.3973	0.0116
2019	177	2	18	7	164.088	56.182	10	OL04	0.1154	0.0118
2019	177	2	18	7	164.088	56.182	10	OL05	-0.2564	0.012
2019	177	2	18	7	164.088	56.182	10	OL06	-0.1127	0.0181
2019	177	2	18	7	164.088	56.182	10	OL07	-0.0191	0.015
2019	177	2	18	7	164.088	56.182	10	OL08	0.0364	0.0169
2019	177	2	18	7	164.088	56.182	10	OL09	0.1873	0.0133
2019	177	2	18	7	164.088	56.182	10	OL10	0.1582	0.0172
2019	177	2	18	7	164.088	56.182	10	OL11	-0.3082	0.0189
2019	178	11	4	56	180.818	-30.396	10	OL01	-0.2427	0.0571
2019	178	11	4	56	180.818	-30.396	10	OL02	0.0691	0.0547
2019	178	11	4	56	180.818	-30.396	10	OL03	0.1382	0.0544
2019	178	11	4	56	180.818	-30.396	10	OL04	-0.0582	0.0422
2019	178	11	4	56	180.818	-30.396	10	OL05	-0.4018	0.0231
2019	178	11	4	56	180.818	-30.396	10	OL06	0.0582	0.0272
2019	178	11	4	56	180.818	-30.396	10	OL07	0.1218	0.026
2019	178	11	4	56	180.818	-30.396	10	OL08	0.1573	0.0268
2019	178	11	4	56	180.818	-30.396	10	OL09	-0.1264	0.0239
2019	178	11	4	56	180.818	-30.396	10	OL10	-0.0636	0.0222
2019	178	11	4	56	180.818	-30.396	10	OL11	0.3482	0.0216
2019	185	4	30	44	229.5	51.237	10	OL01	-0.4418	0.1232
2019	185	4	30	44	229.5	51.237	10	OL02	0.06	0.1252
2019	185	4	30	44	229.5	51.237	10	OL03	0.1754	0.172
2019	185	4	30	44	229.5	51.237	10	OL04	-0.0636	0.2129
2019	185	4	30	44	229.5	51.237	10	OL05	0.0745	0.1074
2019	185	4	30	44	229.5	51.237	10	OL06	-0.0391	0.2057
2019	185	4	30	44	229.5	51.237	10	OL07	0.0045	0.1416
2019	185	4	30	44	229.5	51.237	10	OL08	0.2664	0.1296
2019	185	4	30	44	229.5	51.237	10	OL09	0.0736	0.0738
2019	185	4	30	44	229.5	51.237	10	OL10	-0.1055	0.1208
2019	185	4	30	44	229.5	51.237	10	OL11	-0.0046	0.1145
2019	185	17	33	49	242.496	35.705	10.5	OL01	-0.4391	0.2119
2019	185	17	33	49	242.496	35.705	10.5	OL02	-0.3355	0.2381

2019	185	17	33	49	242.496	35.705	10.5	OL03	-0.1609	0.2195
2019	185	17	33	49	242.496	35.705	10.5	OL04	-0.1782	0.215
2019	185	17	33	49	242.496	35.705	10.5	OL05	-0.2855	0.1909
2019	185	17	33	49	242.496	35.705	10.5	OL06	0.0609	0.2703
2019	185	17	33	49	242.496	35.705	10.5	OL07	0.0691	0.2432
2019	185	17	33	49	242.496	35.705	10.5	OL08	0.3973	0.2433
2019	185	17	33	49	242.496	35.705	10.5	OL09	0.0609	0.1967
2019	185	17	33	49	242.496	35.705	10.5	OL10	0.41	0.2325
2019	185	17	33	49	242.496	35.705	10.5	OL11	0.4009	0.2095
2019	187	3	19	53	242.401	35.77	8	OL01	-0.2173	0.0138
2019	187	3	19	53	242.401	35.77	8	OL02	-0.3446	0.0152
2019	187	3	19	53	242.401	35.77	8	OL03	0.1982	0.0073
2019	187	3	19	53	242.401	35.77	8	OL04	-0.1618	0.0122
2019	187	3	19	53	242.401	35.77	8	OL05	-0.1618	0.0128
2019	187	3	19	53	242.401	35.77	8	OL06	-0.0618	0.0176
2019	187	3	19	53	242.401	35.77	8	OL07	0.1473	0.0098
2019	187	3	19	53	242.401	35.77	8	OL08	0.29	0.0109
2019	187	3	19	53	242.401	35.77	8	OL09	0.1027	0.0123
2019	187	3	19	53	242.401	35.77	8	OL10	0.1227	0.0113
2019	187	3	19	53	242.401	35.77	8	OL11	0.0863	0.0113
2019	195	5	39	23	120.358	-18.224	10	OL01	-0.3582	0.0066
2019	195	5	39	23	120.358	-18.224	10	OL02	-0.2991	0.0059
2019	195	5	39	23	120.358	-18.224	10	OL03	-0.1891	0.0077
2019	195	5	39	23	120.358	-18.224	10	OL04	-0.1864	0.0036
2019	195	5	39	23	120.358	-18.224	10	OL05	0.1345	0.0061
2019	195	5	39	23	120.358	-18.224	10	OL06	-0.0936	0.0056
2019	195	5	39	23	120.358	-18.224	10	OL07	0.0473	0.0056
2019	195	5	39	23	120.358	-18.224	10	OL08	0.5773	0.0106
2019	195	5	39	23	120.358	-18.224	10	OL09	-0.2709	0.0074
2019	195	5	39	23	120.358	-18.224	10	OL10	0.0255	0.005
2019	195	5	39	23	120.358	-18.224	10	OL11	0.6127	0.0077
2019	204	10	33	24	154.114	-61.287	10	OL01	-0.6182	0.1057
2019	204	10	33	24	154.114	-61.287	10	OL02	0.15	0.2834
2019	204	10	33	24	154.114	-61.287	10	OL03	-0.6691	0.1505
2019	204	10	33	24	154.114	-61.287	10	OL04	0.4536	0.1282
2019	204	10	33	24	154.114	-61.287	10	OL05	-0.0245	0.1488
2019	204	10	33	24	154.114	-61.287	10	OL06	0.1327	0.2091

2019	204	10	33	24	154.114	-61.287	10	OL07	0.4909	0.2028
2019	204	10	33	24	154.114	-61.287	10	OL08	0.3964	0.2306
2019	204	10	33	24	154.114	-61.287	10	OL09	-0.1527	0.1351
2019	204	10	33	24	154.114	-61.287	10	OL10	-0.1591	0.1733
2019	204	10	33	24	154.114	-61.287	10	OL11	0	0.2632
2019	204	23	8	56	180.491	-33.798	35	OL01	-0.25	0.2356
2019	204	23	8	56	180.491	-33.798	35	OL02	-0.2	0.2679
2019	204	23	8	56	180.491	-33.798	35	OL03	-0.19	0.2112
2019	204	23	8	56	180.491	-33.798	35	OL04	-0.1527	0.2498
2019	204	23	8	56	180.491	-33.798	35	OL05	-0.0827	0.2774
2019	204	23	8	56	180.491	-33.798	35	OL06	0.0627	0.2557
2019	204	23	8	56	180.491	-33.798	35	OL07	-0.1437	0.2619
2019	204	23	8	56	180.491	-33.798	35	OL08	0.2027	0.144
2019	204	23	8	56	180.491	-33.798	35	OL09	-0.05	0.2355
2019	204	23	8	56	180.491	-33.798	35	OL10	0.4563	0.1805
2019	204	23	8	56	180.491	-33.798	35	OL11	0.3473	0.2513
2019	207	23	37	58	121.974	20.837	9	OL01	0.4945	0.0641
2019	207	23	37	58	121.974	20.837	9	OL02	0.4854	0.0548
2019	207	23	37	58	121.974	20.837	9	OL03	0.2509	0.0528
2019	207	23	37	58	121.974	20.837	9	OL04	0.1445	0.0506
2019	207	23	37	58	121.974	20.837	9	OL05	-0.2073	0.0382
2019	207	23	37	58	121.974	20.837	9	OL06	0.0391	0.0543
2019	207	23	37	58	121.974	20.837	9	OL07	0.2145	0.0329
2019	207	23	37	58	121.974	20.837	9	OL08	-0.47	0.0488
2019	207	23	37	58	121.974	20.837	9	OL09	0.0827	0.0428
2019	207	23	37	58	121.974	20.837	9	OL10	-0.2182	0.042
2019	207	23	37	58	121.974	20.837	9	OL11	-0.8164	0.0979
2019	212	15	2	33	167.998	-16.198	181	OL01	0.0127	0.0115
2019	212	15	2	33	167.998	-16.198	181	OL02	0.2955	0.0114
2019	212	15	2	33	167.998	-16.198	181	OL03	0.1327	0.0121
2019	212	15	2	33	167.998	-16.198	181	OL04	0.1136	0.0086
2019	212	15	2	33	167.998	-16.198	181	OL05	-0.0864	0.0082
2019	212	15	2	33	167.998	-16.198	181	OL06	-0.1618	0.009
2019	212	15	2	33	167.998	-16.198	181	OL07	0.0009	0.0053
2019	212	15	2	33	167.998	-16.198	181	OL08	0.0827	0.007
2019	212	15	2	33	167.998	-16.198	181	OL09	-0.4136	0.0088
2019	212	15	2	33	167.998	-16.198	181	OL10	-0.03	0.0077

2019	212	15	2	33	167.998	-16.198	181	OL11	0.0536	0.0067
2019	214	12	3	27	104.791	-7.282	49	OL01	-0.2791	0.0161
2019	214	12	3	27	104.791	-7.282	49	OL02	-0.3091	0.0167
2019	214	12	3	27	104.791	-7.282	49	OL03	-0.1409	0.0098
2019	214	12	3	27	104.791	-7.282	49	OL04	-0.2309	0.0066
2019	214	12	3	27	104.791	-7.282	49	OL05	-0.0245	0.004
2019	214	12	3	27	104.791	-7.282	49	OL06	0.0555	0.004
2019	214	12	3	27	104.791	-7.282	49	OL07	0.0273	0.0055
2019	214	12	3	27	104.791	-7.282	49	OL08	0.3682	0.0105
2019	214	12	3	27	104.791	-7.282	49	OL09	-0.0782	0.0086
2019	214	12	3	27	104.791	-7.282	49	OL10	0.2609	0.0078
2019	214	12	3	27	104.791	-7.282	49	OL11	0.3509	0.0094
2019	233	14	28	25	139.324	-50.33	10	OL01	-0.7227	0.1802
2019	233	14	28	25	139.324	-50.33	10	OL02	-0.86	0.233
2019	233	14	28	25	139.324	-50.33	10	OL03	0.5373	0.2055
2019	233	14	28	25	139.324	-50.33	10	OL04	-0.1273	0.2516
2019	233	14	28	25	139.324	-50.33	10	OL05	-0.2627	0.1465
2019	233	14	28	25	139.324	-50.33	10	OL06	0.1418	0.1072
2019	233	14	28	25	139.324	-50.33	10	OL07	-0.0191	0.1955
2019	233	14	28	25	139.324	-50.33	10	OL08	0.3063	0.2112
2019	233	14	28	25	139.324	-50.33	10	OL09	0.1063	0.0908
2019	233	14	28	25	139.324	-50.33	10	OL10	0.3518	0.0952
2019	233	14	28	25	139.324	-50.33	10	OL11	0.5482	0.1682
2019	234	19	27	11	182.587	-14.667	10	OL01	0.1636	0.1453
2019	234	19	27	11	182.587	-14.667	10	OL02	0.3364	0.1904
2019	234	19	27	11	182.587	-14.667	10	OL03	-0.0782	0.0908
2019	234	19	27	11	182.587	-14.667	10	OL04	0.0982	0.197
2019	234	19	27	11	182.587	-14.667	10	OL05	0.2554	0.1477
2019	234	19	27	11	182.587	-14.667	10	OL06	0.0054	0.2387
2019	234	19	27	11	182.587	-14.667	10	OL07	0.1927	0.1226
2019	234	19	27	11	182.587	-14.667	10	OL08	0.3318	0.188
2019	234	19	27	11	182.587	-14.667	10	OL09	-0.3955	0.1973
2019	234	19	27	11	182.587	-14.667	10	OL10	-0.5882	0.1349
2019	234	19	27	11	182.587	-14.667	10	OL11	-0.3218	0.3373
2019	241	15	7	58	232.118	43.542	10	OL01	-0.2727	0.0518
2019	241	15	7	58	232.118	43.542	10	OL02	-0.1355	0.0443
2019	241	15	7	58	232.118	43.542	10	OL03	0.2136	0.0314

2019	241	15	7	58	232.118	43.542	10	OL04	-0.0555	0.0423
2019	241	15	7	58	232.118	43.542	10	OL05	-0.11	0.0454
2019	241	15	7	58	232.118	43.542	10	OL06	0.0491	0.0457
2019	241	15	7	58	232.118	43.542	10	OL07	0.0164	0.0531
2019	241	15	7	58	232.118	43.542	10	OL08	0.1309	0.0216
2019	241	15	7	58	232.118	43.542	10	OL09	0.1409	0.0327
2019	241	15	7	58	232.118	43.542	10	OL10	0.06	0.0234
2019	241	15	7	58	232.118	43.542	10	OL11	-0.0373	0.041
2019	244	15	54	20	181.43	-20.364	591	OL01	-0.0282	0.0147
2019	244	15	54	20	181.43	-20.364	591	OL02	0.0773	0.0147
2019	244	15	54	20	181.43	-20.364	591	OL03	0.0627	0.0147
2019	244	15	54	20	181.43	-20.364	591	OL04	0.1754	0.0168
2019	244	15	54	20	181.43	-20.364	591	OL05	-0.09	0.0059
2019	244	15	54	20	181.43	-20.364	591	OL06	-0.1209	0.0068
2019	244	15	54	20	181.43	-20.364	591	OL07	0.2109	0.0145
2019	244	15	54	20	181.43	-20.364	591	OL08	-0.0027	0.0079
2019	244	15	54	20	181.43	-20.364	591	OL09	-0.1691	0.0092
2019	244	15	54	20	181.43	-20.364	591	OL10	-0.1327	0.0108
2019	244	15	54	20	181.43	-20.364	591	OL11	0.0173	0.0095
2019	249	15	27	56	169.053	-20.184	27	OL01	-0.18	0.1711
2019	249	15	27	56	169.053	-20.184	27	OL02	0.0064	0.1968
2019	249	15	27	56	169.053	-20.184	27	OL03	-0.0082	0.1259
2019	249	15	27	56	169.053	-20.184	27	OL04	0.1218	0.1844
2019	249	15	27	56	169.053	-20.184	27	OL05	-0.0927	0.1327
2019	249	15	27	56	169.053	-20.184	27	OL06	-0.0955	0.0969
2019	249	15	27	56	169.053	-20.184	27	OL07	0.0091	0.1119
2019	249	15	27	56	169.053	-20.184	27	OL08	0.1627	0.2004
2019	249	15	27	56	169.053	-20.184	27	OL09	-0.3027	0.1305
2019	249	15	27	56	169.053	-20.184	27	OL10	0.0718	0.1061
2019	249	15	27	56	169.053	-20.184	27	OL11	0.3073	0.1075
2019	265	7	32	33	186.86	-15.554	10	OL01	0.8773	0.1726
2019	265	7	32	33	186.86	-15.554	10	OL02	0.2964	0.0945
2019	265	7	32	33	186.86	-15.554	10	OL03	0.0673	0.1396
2019	265	7	32	33	186.86	-15.554	10	OL04	0.6436	0.0887
2019	265	7	32	33	186.86	-15.554	10	OL05	0.0355	0.1046
2019	265	7	32	33	186.86	-15.554	10	OL06	-0.4564	0.1445
2019	265	7	32	33	186.86	-15.554	10	OL07	0.0245	0.091

2019	265	7	32	33	186.86	-15.554	10	OL08	-0.2464	0.1072
2019	265	7	32	33	186.86	-15.554	10	OL09	-0.1827	0.0835
2019	265	7	32	33	186.86	-15.554	10	OL10	-0.5209	0.0984
2019	265	7	32	33	186.86	-15.554	10	OL11	-0.5382	0.1249
2019	270	12	5	2	182.137	-30.173	34	OL01	-0.0182	0.0199
2019	270	12	5	2	182.137	-30.173	34	OL02	-0.0655	0.0239
2019	270	12	5	2	182.137	-30.173	34	OL03	-0.0336	0.0143
2019	270	12	5	2	182.137	-30.173	34	OL04	0.1755	0.0182
2019	270	12	5	2	182.137	-30.173	34	OL05	-0.1391	0.0068
2019	270	12	5	2	182.137	-30.173	34	OL06	-0.01	0.01
2019	270	12	5	2	182.137	-30.173	34	OL07	0.1082	0.021
2019	270	12	5	2	182.137	-30.173	34	OL08	0.0309	0.0108
2019	270	12	5	2	182.137	-30.173	34	OL09	-0.2	0.0189
2019	270	12	5	2	182.137	-30.173	34	OL10	0.0891	0.0158
2019	270	12	5	2	182.137	-30.173	34	OL11	0.0627	0.0186
2019	287	22	23	54	101.195	-4.482	19	OL01	-0.2309	0.0259
2019	287	22	23	54	101.195	-4.482	19	OL02	-0.05	0.0458
2019	287	22	23	54	101.195	-4.482	19	OL03	-0.3591	0.0291
2019	287	22	23	54	101.195	-4.482	19	OL04	-0.2873	0.062
2019	287	22	23	54	101.195	-4.482	19	OL05	0.1436	0.0188
2019	287	22	23	54	101.195	-4.482	19	OL06	0.05	0.0176
2019	287	22	23	54	101.195	-4.482	19	OL07	0.1773	0.0224
2019	287	22	23	54	101.195	-4.482	19	OL08	-0.3782	0.0466
2019	287	22	23	54	101.195	-4.482	19	OL09	0.1309	0.0169
2019	287	22	23	54	101.195	-4.482	19	OL10	0.4982	0.0261
2019	287	22	23	54	101.195	-4.482	19	OL11	0.3054	0.0278
2019	294	2	52	29	169.488	-19.018	231	OL01	-0.2091	0.061
2019	294	2	52	29	169.488	-19.018	231	OL02	0.3591	0.0405
2019	294	2	52	29	169.488	-19.018	231	OL03	-0.0391	0.0263
2019	294	2	52	29	169.488	-19.018	231	OL04	0.17	0.0678
2019	294	2	52	29	169.488	-19.018	231	OL05	-0.0882	0.0303
2019	294	2	52	29	169.488	-19.018	231	OL06	0.0254	0.0255
2019	294	2	52	29	169.488	-19.018	231	OL07	-0.0036	0.0196
2019	294	2	52	29	169.488	-19.018	231	OL08	-0.0727	0.0097
2019	294	2	52	29	169.488	-19.018	231	OL09	-0.3809	0.0267
2019	294	2	52	29	169.488	-19.018	231	OL10	0.1327	0.0188
2019	294	2	52	29	169.488	-19.018	231	OL11	0.1064	0.0178

2019	295	4	18	38	186.95	-15.198	10	OL01	0.4891	0.0762
2019	295	4	18	38	186.95	-15.198	10	OL02	0.2063	0.2281
2019	295	4	18	38	186.95	-15.198	10	OL03	0.0527	0.2175
2019	295	4	18	38	186.95	-15.198	10	OL04	0.6273	0.1754
2019	295	4	18	38	186.95	-15.198	10	OL05	0.09	0.1249
2019	295	4	18	38	186.95	-15.198	10	OL06	-0.4027	0.1645
2019	295	4	18	38	186.95	-15.198	10	OL07	0.1227	0.1644
2019	295	4	18	38	186.95	-15.198	10	OL08	-0.0927	0.2758
2019	295	4	18	38	186.95	-15.198	10	OL09	-0.4046	0.1768
2019	295	4	18	38	186.95	-15.198	10	OL10	-0.42	0.1049
2019	295	4	18	38	186.95	-15.198	10	OL11	-0.2682	0.1765

**Table S3.** Relative travel time measurements (dt) and uncertainty of mid-frequency filtered (0.03125–0.0625 Hz) teleseismic P-waveforms at each station, obtained through the MCCC method (VanDecar & Crosson, 1990). The table includes event information such as the date and time of the event (hour, minute, and second), as well as location of the event, which is specified by its longitude, latitude, and depth based on USGS list. An example of mid-frequency filtered seismic traces showing relative traveltimes measurement for an earthquake occurred on Dec. 20, 2018 is shown in **Figure S20b**.

Year	Julian day	Hour	Min	Sec	Lon (°)	Lat (°)	Depth (km)	Station	dt (s)	Uncertainty (s)
2018	310	16	11	39	185.47	-22.185	10	OL01	0.2037	0.0422
2018	310	16	11	39	185.47	-22.185	10	OL03	0.0538	0.0804
2018	310	16	11	39	185.47	-22.185	10	OL06	-0.1075	0.0553
2018	310	16	11	39	185.47	-22.185	10	OL07	0.195	0.0425
2018	310	16	11	39	185.47	-22.185	10	OL08	-0.0038	0.0677
2018	310	16	11	39	185.47	-22.185	10	OL09	-0.2087	0.0585
2018	310	16	11	39	185.47	-22.185	10	OL10	-0.0587	0.0797
2018	310	16	11	39	185.47	-22.185	10	OL11	-0.0737	0.0797
2018	314	8	33	21	185.992	-20.454	35	OL01	0.031	0.0107
2018	314	8	33	21	185.992	-20.454	35	OL02	0.445	0.0045
2018	314	8	33	21	185.992	-20.454	35	OL03	-0.33	0.0128
2018	314	8	33	21	185.992	-20.454	35	OL05	0.28	0.0108
2018	314	8	33	21	185.992	-20.454	35	OL06	0.072	0.018
2018	314	8	33	21	185.992	-20.454	35	OL07	-0.077	0.0141
2018	314	8	33	21	185.992	-20.454	35	OL08	0.041	0.0107
2018	314	8	33	21	185.992	-20.454	35	OL09	-0.519	0.0101
2018	314	8	33	21	185.992	-20.454	35	OL10	0.065	0.0177
2018	314	8	33	21	185.992	-20.454	35	OL11	-0.008	0.0103
2018	322	20	25	46	181.073	-17.873	540	OL01	0.4	0.0262
2018	322	20	25	46	181.073	-17.873	540	OL02	0.6291	0.0391
2018	322	20	25	46	181.073	-17.873	540	OL03	0.0427	0.015
2018	322	20	25	46	181.073	-17.873	540	OL04	0.3064	0.0236
2018	322	20	25	46	181.073	-17.873	540	OL05	0.19	0.0241
2018	322	20	25	46	181.073	-17.873	540	OL06	-0.2509	0.021
2018	322	20	25	46	181.073	-17.873	540	OL07	-0.0936	0.0207
2018	322	20	25	46	181.073	-17.873	540	OL08	-0.0564	0.0112
2018	322	20	25	46	181.073	-17.873	540	OL09	-0.4245	0.0231
2018	322	20	25	46	181.073	-17.873	540	OL10	-0.4245	0.012
2018	322	20	25	46	181.073	-17.873	540	OL11	-0.3182	0.0143
2018	333	20	21	44	96.998	0.227	9.9	OL01	-0.2464	0.2068
2018	333	20	21	44	96.998	0.227	9.9	OL02	-0.1727	0.2202
2018	333	20	21	44	96.998	0.227	9.9	OL03	-0.3236	0.3141
2018	333	20	21	44	96.998	0.227	9.9	OL04	0.03	0.2426
2018	333	20	21	44	96.998	0.227	9.9	OL05	-0.1818	0.2459
2018	333	20	21	44	96.998	0.227	9.9	OL06	-0.1182	0.2677

2018	333	20	21	44	96.998	0.227	9.9	OL07	-0.1145	0.2699
2018	333	20	21	44	96.998	0.227	9.9	OL08	0.3709	0.237
2018	333	20	21	44	96.998	0.227	9.9	OL09	-0.03	0.2261
2018	333	20	21	44	96.998	0.227	9.9	OL10	0.1264	0.132
2018	333	20	21	44	96.998	0.227	9.9	OL11	0.66	0.3005
2018	334	17	29	29	210.045	61.346	46.7	OL01	-0.0809	0.0054
2018	334	17	29	29	210.045	61.346	46.7	OL02	-0.2636	0.0066
2018	334	17	29	29	210.045	61.346	46.7	OL03	0.28	0.0052
2018	334	17	29	29	210.045	61.346	46.7	OL04	-0.01	0.0048
2018	334	17	29	29	210.045	61.346	46.7	OL05	-0.2727	0.0052
2018	334	17	29	29	210.045	61.346	46.7	OL06	0.1082	0.0021
2018	334	17	29	29	210.045	61.346	46.7	OL07	0.1036	0.0046
2018	334	17	29	29	210.045	61.346	46.7	OL08	-0.0009	0.0061
2018	334	17	29	29	210.045	61.346	46.7	OL09	0.1182	0.0061
2018	334	17	29	29	210.045	61.346	46.7	OL10	0.2509	0.0046
2018	334	17	29	29	210.045	61.346	46.7	OL11	-0.2327	0.0056
2018	335	13	27	21	128.707	-7.384	136	OL01	-0.1855	0.0825
2018	335	13	27	21	128.707	-7.384	136	OL02	-0.28	0.0829
2018	335	13	27	21	128.707	-7.384	136	OL03	-0.0173	0.0923
2018	335	13	27	21	128.707	-7.384	136	OL04	-0.1227	0.0952
2018	335	13	27	21	128.707	-7.384	136	OL05	-0.1273	0.0849
2018	335	13	27	21	128.707	-7.384	136	OL06	-0.0727	0.0842
2018	335	13	27	21	128.707	-7.384	136	OL07	0.0373	0.0898
2018	335	13	27	21	128.707	-7.384	136	OL08	0.3627	0.0882
2018	335	13	27	21	128.707	-7.384	136	OL09	-0.1136	0.076
2018	335	13	27	21	128.707	-7.384	136	OL10	0.1536	0.0923
2018	335	13	27	21	128.707	-7.384	136	OL11	0.3655	0.0928
2018	339	4	18	8	169.427	-21.95	10	OL01	0.0591	0.0421
2018	339	4	18	8	169.427	-21.95	10	OL02	0.2582	0.0416
2018	339	4	18	8	169.427	-21.95	10	OL03	0.0473	0.0354
2018	339	4	18	8	169.427	-21.95	10	OL04	0.08	0.0423
2018	339	4	18	8	169.427	-21.95	10	OL05	-0.0446	0.0313
2018	339	4	18	8	169.427	-21.95	10	OL06	-0.1236	0.0275
2018	339	4	18	8	169.427	-21.95	10	OL07	-0.0036	0.0335
2018	339	4	18	8	169.427	-21.95	10	OL08	0.0636	0.046
2018	339	4	18	8	169.427	-21.95	10	OL09	-0.3809	0.0267
2018	339	4	18	8	169.427	-21.95	10	OL10	-0.01	0.0323

2018	339	4	18	8	169.427	-21.95	10	OL11	0.0545	0.0348
2018	340	23	26	59	169.637	-22.352	9	OL01	-0.2755	0.0385
2018	340	23	26	59	169.637	-22.352	9	OL02	0.5164	0.0597
2018	340	23	26	59	169.637	-22.352	9	OL03	0.0291	0.076
2018	340	23	26	59	169.637	-22.352	9	OL04	-0.0146	0.0653
2018	340	23	26	59	169.637	-22.352	9	OL05	-0.2946	0.0781
2018	340	23	26	59	169.637	-22.352	9	OL06	-0.0327	0.0578
2018	340	23	26	59	169.637	-22.352	9	OL07	-0.0191	0.0723
2018	340	23	26	59	169.637	-22.352	9	OL08	0.1391	0.0797
2018	340	23	26	59	169.637	-22.352	9	OL09	-0.3773	0.0503
2018	340	23	26	59	169.637	-22.352	9	OL10	0.2318	0.039
2018	340	23	26	59	169.637	-22.352	9	OL11	0.0973	0.0574
2018	350	14	26	19	112.498	-23.323	10	OL01	-0.2982	0.2543
2018	350	14	26	19	112.498	-23.323	10	OL02	-0.2627	0.2097
2018	350	14	26	19	112.498	-23.323	10	OL03	-0.2009	0.2323
2018	350	14	26	19	112.498	-23.323	10	OL04	0.0764	0.2725
2018	350	14	26	19	112.498	-23.323	10	OL05	-0.2836	0.2805
2018	350	14	26	19	112.498	-23.323	10	OL06	0.01	0.1947
2018	350	14	26	19	112.498	-23.323	10	OL07	-0.3473	0.2117
2018	350	14	26	19	112.498	-23.323	10	OL08	0.51	0.2877
2018	350	14	26	19	112.498	-23.323	10	OL09	0.1264	0.1904
2018	350	14	26	19	112.498	-23.323	10	OL10	0.0773	0.1821
2018	350	14	26	19	112.498	-23.323	10	OL11	0.5927	0.2789
2018	354	17	1	55	164.699	55.1	16.6	OL01	-0.3555	0.0133
2018	354	17	1	55	164.699	55.1	16.6	OL02	-0.6364	0.0344
2018	354	17	1	55	164.699	55.1	16.6	OL03	0.2618	0.0096
2018	354	17	1	55	164.699	55.1	16.6	OL04	-0.0927	0.0111
2018	354	17	1	55	164.699	55.1	16.6	OL05	-0.4445	0.0165
2018	354	17	1	55	164.699	55.1	16.6	OL06	0.2573	0.0063
2018	354	17	1	55	164.699	55.1	16.6	OL07	0.1036	0.0079
2018	354	17	1	55	164.699	55.1	16.6	OL08	0.1318	0.0095
2018	354	17	1	55	164.699	55.1	16.6	OL09	0.2018	0.0086
2018	354	17	1	55	164.699	55.1	16.6	OL10	0.5964	0.0297
2018	354	17	1	55	164.699	55.1	16.6	OL11	-0.0236	0.0072
2018	357	23	8	43	184.929	-20.285	113	OL01	0.1564	0.0546
2018	357	23	8	43	184.929	-20.285	113	OL02	0.1645	0.0592
2018	357	23	8	43	184.929	-20.285	113	OL03	-0.2382	0.0698

2018	357	23	8	43	184.929	-20.285	113	OL04	0.0964	0.065
2018	357	23	8	43	184.929	-20.285	113	OL05	0.0336	0.0661
2018	357	23	8	43	184.929	-20.285	113	OL06	-0.0518	0.0558
2018	357	23	8	43	184.929	-20.285	113	OL07	0.1782	0.0403
2018	357	23	8	43	184.929	-20.285	113	OL08	0.0345	0.0469
2018	357	23	8	43	184.929	-20.285	113	OL09	-0.2409	0.0524
2018	357	23	8	43	184.929	-20.285	113	OL10	-0.07	0.0574
2018	357	23	8	43	184.929	-20.285	113	OL11	-0.0627	0.0527
2018	358	12	41	19	164.51	55.344	10	OL01	-0.4273	0.033
2018	358	12	41	19	164.51	55.344	10	OL02	-0.4445	0.0988
2018	358	12	41	19	164.51	55.344	10	OL03	0.0591	0.0865
2018	358	12	41	19	164.51	55.344	10	OL04	-0.1473	0.0853
2018	358	12	41	19	164.51	55.344	10	OL05	-0.4809	0.0613
2018	358	12	41	19	164.51	55.344	10	OL06	0.3982	0.1057
2018	358	12	41	19	164.51	55.344	10	OL07	0.1509	0.1019
2018	358	12	41	19	164.51	55.344	10	OL08	0.2091	0.108
2018	358	12	41	19	164.51	55.344	10	OL09	0.1309	0.1041
2018	358	12	41	19	164.51	55.344	10	OL10	0.5091	0.0637
2018	358	12	41	19	164.51	55.344	10	OL11	0.0427	0.0772
2018	365	2	35	37	198.487	54.427	31	OL01	-0.0718	0.1151
2018	365	2	35	37	198.487	54.427	31	OL02	-0.2391	0.126
2018	365	2	35	37	198.487	54.427	31	OL03	0.41	0.126
2018	365	2	35	37	198.487	54.427	31	OL04	-0.05	0.1183
2018	365	2	35	37	198.487	54.427	31	OL05	-0.4409	0.0964
2018	365	2	35	37	198.487	54.427	31	OL06	0.0318	0.0837
2018	365	2	35	37	198.487	54.427	31	OL07	0.1645	0.084
2018	365	2	35	37	198.487	54.427	31	OL08	-0.0355	0.1123
2018	365	2	35	37	198.487	54.427	31	OL09	0.0354	0.1419
2018	365	2	35	37	198.487	54.427	31	OL10	0.2836	0.0572
2018	365	2	35	37	198.487	54.427	31	OL11	-0.0882	0.0963
2019	18	13	18	31	168.745	-19.204	38.7	OL01	0.0045	0.0231
2019	18	13	18	31	168.745	-19.204	38.7	OL02	0.0182	0.0167
2019	18	13	18	31	168.745	-19.204	38.7	OL03	0.1336	0.0111
2019	18	13	18	31	168.745	-19.204	38.7	OL04	0.2582	0.0208
2019	18	13	18	31	168.745	-19.204	38.7	OL05	-0.0136	0.018
2019	18	13	18	31	168.745	-19.204	38.7	OL06	-0.3264	0.0172
2019	18	13	18	31	168.745	-19.204	38.7	OL07	-0.0182	0.0244

2019	18	13	18	31	168.745	-19.204	38.7	OL08	0.2609	0.0256
2019	18	13	18	31	168.745	-19.204	38.7	OL09	-0.4555	0.0217
2019	18	13	18	31	168.745	-19.204	38.7	OL10	-0.1082	0.0173
2019	18	13	18	31	168.745	-19.204	38.7	OL11	0.2464	0.0169
2019	21	23	59	23	119.152	-10.328	26	OL01	-0.1309	0.0318
2019	21	23	59	23	119.152	-10.328	26	OL02	-0.0664	0.0334
2019	21	23	59	23	119.152	-10.328	26	OL03	-0.2127	0.026
2019	21	23	59	23	119.152	-10.328	26	OL04	-0.1036	0.0252
2019	21	23	59	23	119.152	-10.328	26	OL05	0.0482	0.0296
2019	21	23	59	23	119.152	-10.328	26	OL06	-0.0782	0.0376
2019	21	23	59	23	119.152	-10.328	26	OL07	-0.0173	0.0547
2019	21	23	59	23	119.152	-10.328	26	OL08	0.3536	0.0445
2019	21	23	59	23	119.152	-10.328	26	OL09	-0.3273	0.0199
2019	21	23	59	23	119.152	-10.328	26	OL10	0.08	0.0359
2019	21	23	59	23	119.152	-10.328	26	OL11	0.4545	0.0248
2019	22	5	10	3	119.016	-10.415	24	OL01	-0.2727	0.0619
2019	22	5	10	3	119.016	-10.415	24	OL02	-0.2064	0.0635
2019	22	5	10	3	119.016	-10.415	24	OL03	-0.2236	0.0521
2019	22	5	10	3	119.016	-10.415	24	OL04	-0.2282	0.0575
2019	22	5	10	3	119.016	-10.415	24	OL05	-0.0364	0.07
2019	22	5	10	3	119.016	-10.415	24	OL06	-0.0536	0.0707
2019	22	5	10	3	119.016	-10.415	24	OL07	-0.0627	0.0582
2019	22	5	10	3	119.016	-10.415	24	OL08	0.4018	0.0774
2019	22	5	10	3	119.016	-10.415	24	OL09	-0.1082	0.0563
2019	22	5	10	3	119.016	-10.415	24	OL10	0.31	0.0802
2019	22	5	10	3	119.016	-10.415	24	OL11	0.48	0.0745
2019	23	11	39	2	118.923	-10.298	24	OL01	-0.5545	0.2556
2019	23	11	39	2	118.923	-10.298	24	OL02	-0.2982	0.2015
2019	23	11	39	2	118.923	-10.298	24	OL03	0.1336	0.2632
2019	23	11	39	2	118.923	-10.298	24	OL04	-0.3518	0.2292
2019	23	11	39	2	118.923	-10.298	24	OL05	-0.1964	0.1885
2019	23	11	39	2	118.923	-10.298	24	OL06	-0.3355	0.2964
2019	23	11	39	2	118.923	-10.298	24	OL07	0.1209	0.2847
2019	23	11	39	2	118.923	-10.298	24	OL08	0.2464	0.2865
2019	23	11	39	2	118.923	-10.298	24	OL09	0.1782	0.2618
2019	23	11	39	2	118.923	-10.298	24	OL10	0.57	0.2992
2019	23	11	39	2	118.923	-10.298	24	OL11	0.4873	0.2668

2019	26	19	56	44	181.041	-21.047	588	OL01	-0.0564	0.0585
2019	26	19	56	44	181.041	-21.047	588	OL02	-0.0164	0.0821
2019	26	19	56	44	181.041	-21.047	588	OL03	0.0364	0.0483
2019	26	19	56	44	181.041	-21.047	588	OL04	0.1127	0.0516
2019	26	19	56	44	181.041	-21.047	588	OL05	-0.0464	0.0769
2019	26	19	56	44	181.041	-21.047	588	OL06	-0.0891	0.0714
2019	26	19	56	44	181.041	-21.047	588	OL07	0.0882	0.0542
2019	26	19	56	44	181.041	-21.047	588	OL08	0.2073	0.0828
2019	26	19	56	44	181.041	-21.047	588	OL09	-0.3182	0.0581
2019	26	19	56	44	181.041	-21.047	588	OL10	0.0318	0.1069
2019	26	19	56	44	181.041	-21.047	588	OL11	0.05	0.0708
2019	35	19	29	54	98.036	-0.42	19	OL01	0.3891	0.1759
2019	35	19	29	54	98.036	-0.42	19	OL02	-0.6846	0.2725
2019	35	19	29	54	98.036	-0.42	19	OL03	0.2191	0.1767
2019	35	19	29	54	98.036	-0.42	19	OL04	-0.1964	0.2439
2019	35	19	29	54	98.036	-0.42	19	OL05	-0.3409	0.2419
2019	35	19	29	54	98.036	-0.42	19	OL06	0.3545	0.2217
2019	35	19	29	54	98.036	-0.42	19	OL07	0.3145	0.2451
2019	35	19	29	54	98.036	-0.42	19	OL08	0.4364	0.1859
2019	35	19	29	54	98.036	-0.42	19	OL09	-0.6291	0.1737
2019	35	19	29	54	98.036	-0.42	19	OL10	0.2664	0.2362
2019	35	19	29	54	98.036	-0.42	19	OL11	-0.1291	0.2085
2019	49	19	30	22	112.861	-9.509	23	OL01	-0.52	0.3067
2019	49	19	30	22	112.861	-9.509	23	OL02	-0.4418	0.198
2019	49	19	30	22	112.861	-9.509	23	OL03	-0.5909	0.2151
2019	49	19	30	22	112.861	-9.509	23	OL04	0.21	0.3032
2019	49	19	30	22	112.861	-9.509	23	OL05	-0.2982	0.2186
2019	49	19	30	22	112.861	-9.509	23	OL06	0.24	0.2363
2019	49	19	30	22	112.861	-9.509	23	OL07	-0.0236	0.2407
2019	49	19	30	22	112.861	-9.509	23	OL08	0.2782	0.2687
2019	49	19	30	22	112.861	-9.509	23	OL09	0.2445	0.1763
2019	49	19	30	22	112.861	-9.509	23	OL10	0.1509	0.2376
2019	49	19	30	22	112.861	-9.509	23	OL11	0.7509	0.236
2019	65	15	46	14	182.115	-32.024	29	OL01	0.0482	0.0209
2019	65	15	46	14	182.115	-32.024	29	OL02	-0.0827	0.0206
2019	65	15	46	14	182.115	-32.024	29	OL03	0.06	0.0241
2019	65	15	46	14	182.115	-32.024	29	OL04	0.03	0.0182

2019	65	15	46	14	182.115	-32.024	29	OL05	-0.1155	0.021
2019	65	15	46	14	182.115	-32.024	29	OL06	-0.0227	0.0218
2019	65	15	46	14	182.115	-32.024	29	OL07	0.0809	0.0214
2019	65	15	46	14	182.115	-32.024	29	OL08	0.0327	0.0202
2019	65	15	46	14	182.115	-32.024	29	OL09	-0.2246	0.0151
2019	65	15	46	14	182.115	-32.024	29	OL10	0.0864	0.0207
2019	65	15	46	14	182.115	-32.024	29	OL11	0.1073	0.0184
2019	65	20	19	59	182.231	-32.245	9.1	OL01	0.1045	0.0432
2019	65	20	19	59	182.231	-32.245	9.1	OL02	-0.0737	0.0543
2019	65	20	19	59	182.231	-32.245	9.1	OL03	0.1345	0.0776
2019	65	20	19	59	182.231	-32.245	9.1	OL04	-0.1427	0.0642
2019	65	20	19	59	182.231	-32.245	9.1	OL05	-0.0137	0.0406
2019	65	20	19	59	182.231	-32.245	9.1	OL06	-0.0437	0.045
2019	65	20	19	59	182.231	-32.245	9.1	OL07	-0.0327	0.0759
2019	65	20	19	59	182.231	-32.245	9.1	OL08	0.2609	0.0569
2019	65	20	19	59	182.231	-32.245	9.1	OL09	-0.4673	0.0814
2019	65	20	19	59	182.231	-32.245	9.1	OL10	0.2382	0.0764
2019	65	20	19	59	182.231	-32.245	9.1	OL11	0.0354	0.0503
2019	69	8	12	26	181.397	-17.892	578.2	OL01	-0.0773	0.1179
2019	69	8	12	26	181.397	-17.892	578.2	OL02	0.2845	0.1616
2019	69	8	12	26	181.397	-17.892	578.2	OL03	-0.0009	0.0952
2019	69	8	12	26	181.397	-17.892	578.2	OL04	-0.1109	0.1657
2019	69	8	12	26	181.397	-17.892	578.2	OL05	0.3091	0.1421
2019	69	8	12	26	181.397	-17.892	578.2	OL06	-0.2427	0.0949
2019	69	8	12	26	181.397	-17.892	578.2	OL07	0.16	0.0921
2019	69	8	12	26	181.397	-17.892	578.2	OL08	0.2782	0.1433
2019	69	8	12	26	181.397	-17.892	578.2	OL09	-0.28	0.1248
2019	69	8	12	26	181.397	-17.892	578.2	OL10	-0.2718	0.1181
2019	69	8	12	26	181.397	-17.892	578.2	OL11	-0.0482	0.1204
2019	79	15	23	58	167.655	-15.597	119	OL01	-0.69	0.2076
2019	79	15	23	58	167.655	-15.597	119	OL02	-0.6745	0.1781
2019	79	15	23	58	167.655	-15.597	119	OL03	-0.2445	0.1672
2019	79	15	23	58	167.655	-15.597	119	OL04	-0.1455	0.1664
2019	79	15	23	58	167.655	-15.597	119	OL05	-0.2936	0.1409
2019	79	15	23	58	167.655	-15.597	119	OL06	0.2436	0.1633
2019	79	15	23	58	167.655	-15.597	119	OL07	0.2618	0.129
2019	79	15	23	58	167.655	-15.597	119	OL08	0.4173	0.2073

2019	79	15	23	58	167.655	-15.597	119	OL09	-0.0027	0.1224
2019	79	15	23	58	167.655	-15.597	119	OL10	0.4291	0.207
2019	79	15	23	58	167.655	-15.597	119	OL11	0.6991	0.2274
2019	83	1	32	0	120.524	-1.87	10	OL01	-0.0418	0.2374
2019	83	1	32	0	120.524	-1.87	10	OL02	-0.0509	0.2994
2019	83	1	32	0	120.524	-1.87	10	OL03	0.2355	0.1796
2019	83	1	32	0	120.524	-1.87	10	OL04	-0.3936	0.2262
2019	83	1	32	0	120.524	-1.87	10	OL05	0.1327	0.177
2019	83	1	32	0	120.524	-1.87	10	OL06	-0.4582	0.1315
2019	83	1	32	0	120.524	-1.87	10	OL07	-0.2109	0.2127
2019	83	1	32	0	120.524	-1.87	10	OL08	-0.1791	0.2836
2019	83	1	32	0	120.524	-1.87	10	OL09	-0.03	0.1993
2019	83	1	32	0	120.524	-1.87	10	OL10	0.4945	0.2035
2019	83	1	32	0	120.524	-1.87	10	OL11	0.5018	0.2435
2019	87	22	6	49	159.943	50.495	9	OL01	0.1054	0.0273
2019	87	22	6	49	159.943	50.495	9	OL02	-0.0927	0.0464
2019	87	22	6	49	159.943	50.495	9	OL03	0.4382	0.0711
2019	87	22	6	49	159.943	50.495	9	OL04	-0.0346	0.0748
2019	87	22	6	49	159.943	50.495	9	OL05	-0.2636	0.0521
2019	87	22	6	49	159.943	50.495	9	OL06	-0.1327	0.025
2019	87	22	6	49	159.943	50.495	9	OL07	0.09	0.0558
2019	87	22	6	49	159.943	50.495	9	OL08	-0.1455	0.0252
2019	87	22	6	49	159.943	50.495	9	OL09	0.1718	0.0467
2019	87	22	6	49	159.943	50.495	9	OL10	0.1209	0.0841
2019	87	22	6	49	159.943	50.495	9	OL11	-0.2573	0.0566
2019	92	21	35	30	178.071	52.17	8	OL01	-0.3109	0.0181
2019	92	21	35	30	178.071	52.17	8	OL02	-0.5673	0.038
2019	92	21	35	30	178.071	52.17	8	OL03	0.2273	0.0265
2019	92	21	35	30	178.071	52.17	8	OL04	-0.2418	0.0265
2019	92	21	35	30	178.071	52.17	8	OL05	-0.5554	0.0289
2019	92	21	35	30	178.071	52.17	8	OL06	0.3673	0.0177
2019	92	21	35	30	178.071	52.17	8	OL07	0.2318	0.0191
2019	92	21	35	30	178.071	52.17	8	OL08	-0.0218	0.0218
2019	92	21	35	30	178.071	52.17	8	OL09	0.2755	0.0129
2019	92	21	35	30	178.071	52.17	8	OL10	0.6664	0.0436
2019	92	21	35	30	178.071	52.17	8	OL11	-0.0709	0.0205
2019	102	11	40	49	122.58	-1.815	15.5	OL01	0.2164	0.0397

2019	102	11	40	49	122.58	-1.815	15.5	OL02	0.12	0.0428
2019	102	11	40	49	122.58	-1.815	15.5	OL03	0.0127	0.0391
2019	102	11	40	49	122.58	-1.815	15.5	OL04	0.0264	0.0424
2019	102	11	40	49	122.58	-1.815	15.5	OL05	0.0091	0.0372
2019	102	11	40	49	122.58	-1.815	15.5	OL06	-0.2964	0.0405
2019	102	11	40	49	122.58	-1.815	15.5	OL07	-0.1382	0.0372
2019	102	11	40	49	122.58	-1.815	15.5	OL08	0.0955	0.0388
2019	102	11	40	49	122.58	-1.815	15.5	OL09	-0.2482	0.0407
2019	102	11	40	49	122.58	-1.815	15.5	OL10	0.03	0.038
2019	102	11	40	49	122.58	-1.815	15.5	OL11	0.1727	0.0387
2019	108	5	1	6	121.65	24.037	20	OL01	0.1211	0.0221
2019	108	5	1	6	121.65	24.037	20	OL02	0.0622	0.0228
2019	108	5	1	6	121.65	24.037	20	OL03	0.11	0.0264
2019	108	5	1	6	121.65	24.037	20	OL04	-0.1111	0.0269
2019	108	5	1	6	121.65	24.037	20	OL05	-0.8045	0.0323
2019	108	5	1	6	121.65	24.037	20	OL06	-0.2889	0.0246
2019	108	5	1	6	121.65	24.037	20	OL07	0.4167	0.033
2019	108	5	1	6	121.65	24.037	20	OL09	0.2689	0.0184
2019	108	5	1	6	121.65	24.037	20	OL10	0.2255	0.0192
2019	108	14	46	1	139.321	-51.127	10	OL01	-0.29	0.0327
2019	108	14	46	1	139.321	-51.127	10	OL02	-0.5364	0.0568
2019	108	14	46	1	139.321	-51.127	10	OL03	0.18	0.1213
2019	108	14	46	1	139.321	-51.127	10	OL04	-0.09	0.0792
2019	108	14	46	1	139.321	-51.127	10	OL05	0.14	0.0756
2019	108	14	46	1	139.321	-51.127	10	OL06	-0.0591	0.0419
2019	108	14	46	1	139.321	-51.127	10	OL07	0.0936	0.1053
2019	108	14	46	1	139.321	-51.127	10	OL08	0.4954	0.095
2019	108	14	46	1	139.321	-51.127	10	OL09	-0.2591	0.1447
2019	108	14	46	1	139.321	-51.127	10	OL10	0.2064	0.0276
2019	108	14	46	1	139.321	-51.127	10	OL11	0.1191	0.0812
2019	112	9	11	12	120.515	14.954	21.8	OL01	0.1036	0.1131
2019	112	9	11	12	120.515	14.954	21.8	OL02	0.08	0.0841
2019	112	9	11	12	120.515	14.954	21.8	OL03	0.1482	0.1669
2019	112	9	11	12	120.515	14.954	21.8	OL04	0.0373	0.1691
2019	112	9	11	12	120.515	14.954	21.8	OL05	-0.1609	0.0526
2019	112	9	11	12	120.515	14.954	21.8	OL06	-0.1609	0.1348
2019	112	9	11	12	120.515	14.954	21.8	OL07	-0.1564	0.1873

2019	112	9	11	12	120.515	14.954	21.8	OL08	-0.2364	0.1834
2019	112	9	11	12	120.515	14.954	21.8	OL09	0.2527	0.1584
2019	112	9	11	12	120.515	14.954	21.8	OL10	0.3064	0.0972
2019	112	9	11	12	120.515	14.954	21.8	OL11	-0.2136	0.2026
2019	113	14	20	17	181.236	-24.706	385.6	OL01	-0.1609	0.0578
2019	113	14	20	17	181.236	-24.706	385.6	OL02	-0.2009	0.0582
2019	113	14	20	17	181.236	-24.706	385.6	OL03	-0.2809	0.039
2019	113	14	20	17	181.236	-24.706	385.6	OL04	0.0909	0.049
2019	113	14	20	17	181.236	-24.706	385.6	OL05	-0.1009	0.0483
2019	113	14	20	17	181.236	-24.706	385.6	OL06	0.0409	0.0424
2019	113	14	20	17	181.236	-24.706	385.6	OL07	0.1891	0.0791
2019	113	14	20	17	181.236	-24.706	385.6	OL08	0.2127	0.0511
2019	113	14	20	17	181.236	-24.706	385.6	OL09	-0.2446	0.0492
2019	113	14	20	17	181.236	-24.706	385.6	OL10	0.1745	0.0688
2019	113	14	20	17	181.236	-24.706	385.6	OL11	0.28	0.0511
2019	130	3	23	33	183.221	-28.668	10	OL01	-0.0955	0.0887
2019	130	3	23	33	183.221	-28.668	10	OL02	0.0355	0.0672
2019	130	3	23	33	183.221	-28.668	10	OL03	-0.28	0.0952
2019	130	3	23	33	183.221	-28.668	10	OL04	0.0427	0.1063
2019	130	3	23	33	183.221	-28.668	10	OL05	-0.0191	0.0853
2019	130	3	23	33	183.221	-28.668	10	OL06	-0.0873	0.0779
2019	130	3	23	33	183.221	-28.668	10	OL07	0.2655	0.0574
2019	130	3	23	33	183.221	-28.668	10	OL08	0.2682	0.0541
2019	130	3	23	33	183.221	-28.668	10	OL09	-0.1809	0.0733
2019	130	3	23	33	183.221	-28.668	10	OL10	0.1282	0.0633
2019	130	3	23	33	183.221	-28.668	10	OL11	-0.0773	0.073
2019	130	8	44	53	169.133	-19.74	105	OL01	-0.7227	0.1638
2019	130	8	44	53	169.133	-19.74	105	OL02	0.0309	0.1233
2019	130	8	44	53	169.133	-19.74	105	OL03	-0.2127	0.1709
2019	130	8	44	53	169.133	-19.74	105	OL04	-0.0036	0.2272
2019	130	8	44	53	169.133	-19.74	105	OL05	0.1118	0.2306
2019	130	8	44	53	169.133	-19.74	105	OL06	-0.5518	0.1377
2019	130	8	44	53	169.133	-19.74	105	OL07	0.0482	0.1675
2019	130	8	44	53	169.133	-19.74	105	OL08	0.5454	0.1385
2019	130	8	44	53	169.133	-19.74	105	OL09	-0.0518	0.0822
2019	130	8	44	53	169.133	-19.74	105	OL10	0.2809	0.0933
2019	130	8	44	53	169.133	-19.74	105	OL11	0.5254	0.1441

2019	139	1	23	29	169.778	-21.662	20	OL01	-0.1309	0.0106
2019	139	1	23	29	169.778	-21.662	20	OL02	0.0327	0.0118
2019	139	1	23	29	169.778	-21.662	20	OL03	0.05	0.0125
2019	139	1	23	29	169.778	-21.662	20	OL04	0.0391	0.013
2019	139	1	23	29	169.778	-21.662	20	OL05	-0.1245	0.0123
2019	139	1	23	29	169.778	-21.662	20	OL06	-0.0945	0.0145
2019	139	1	23	29	169.778	-21.662	20	OL07	-0.0064	0.0141
2019	139	1	23	29	169.778	-21.662	20	OL08	0.2146	0.0083
2019	139	1	23	29	169.778	-21.662	20	OL09	-0.3273	0.0134
2019	139	1	23	29	169.778	-21.662	20	OL10	0.1218	0.0103
2019	139	1	23	29	169.778	-21.662	20	OL11	0.2255	0.0097
2019	139	14	27	11	169.576	-21.731	16	OL01	-0.1764	0.1051
2019	139	14	27	11	169.576	-21.731	16	OL02	-0.3373	0.0867
2019	139	14	27	11	169.576	-21.731	16	OL03	-0.2246	0.1057
2019	139	14	27	11	169.576	-21.731	16	OL04	-0.14	0.1353
2019	139	14	27	11	169.576	-21.731	16	OL05	-0.06	0.1347
2019	139	14	27	11	169.576	-21.731	16	OL06	-0.07	0.0856
2019	139	14	27	11	169.576	-21.731	16	OL07	0.08	0.1548
2019	139	14	27	11	169.576	-21.731	16	OL08	0.2654	0.1117
2019	139	14	27	11	169.576	-21.731	16	OL09	-0.2427	0.1277
2019	139	14	27	11	169.576	-21.731	16	OL10	0.3509	0.1218
2019	139	14	27	11	169.576	-21.731	16	OL11	0.5545	0.1083
2019	143	8	45	17	181.761	51.308	30	OL01	-0.0037	0.0274
2019	143	8	45	17	181.761	51.308	30	OL02	-0.2282	0.0325
2019	143	8	45	17	181.761	51.308	30	OL03	0.4263	0.0304
2019	143	8	45	17	181.761	51.308	30	OL04	-0.0346	0.0616
2019	143	8	45	17	181.761	51.308	30	OL05	-0.5891	0.0505
2019	143	8	45	17	181.761	51.308	30	OL06	0.1163	0.0452
2019	143	8	45	17	181.761	51.308	30	OL07	0.1691	0.0359
2019	143	8	45	17	181.761	51.308	30	OL08	-0.2427	0.0712
2019	143	8	45	17	181.761	51.308	30	OL09	0.27	0.025
2019	143	8	45	17	181.761	51.308	30	OL10	0.3663	0.0584
2019	143	8	45	17	181.761	51.308	30	OL11	-0.25	0.0276
2019	150	15	38	1	183.683	-21.754	177.8	OL01	0.2136	0.0215
2019	150	15	38	1	183.683	-21.754	177.8	OL02	0.1627	0.0168
2019	150	15	38	1	183.683	-21.754	177.8	OL03	-0.0536	0.0281
2019	150	15	38	1	183.683	-21.754	177.8	OL04	-0.0764	0.0299

2019	150	15	38	1	183.683	-21.754	177.8	OL05	0.0427	0.0187
2019	150	15	38	1	183.683	-21.754	177.8	OL06	-0.0691	0.0152
2019	150	15	38	1	183.683	-21.754	177.8	OL07	0.01	0.0249
2019	150	15	38	1	183.683	-21.754	177.8	OL08	-0.03	0.0153
2019	150	15	38	1	183.683	-21.754	177.8	OL09	-0.2691	0.0221
2019	150	15	38	1	183.683	-21.754	177.8	OL10	-0.0527	0.0164
2019	150	15	38	1	183.683	-21.754	177.8	OL11	0.1218	0.0205
2019	153	10	36	29	186.09	-21.207	10	OL01	-0.0236	0.0298
2019	153	10	36	29	186.09	-21.207	10	OL02	-0.0527	0.027
2019	153	10	36	29	186.09	-21.207	10	OL03	-0.1073	0.0304
2019	153	10	36	29	186.09	-21.207	10	OL04	-0.0173	0.0342
2019	153	10	36	29	186.09	-21.207	10	OL05	-0.1264	0.0366
2019	153	10	36	29	186.09	-21.207	10	OL06	0.08	0.0217
2019	153	10	36	29	186.09	-21.207	10	OL07	0.1364	0.0256
2019	153	10	36	29	186.09	-21.207	10	OL08	0.0636	0.0218
2019	153	10	36	29	186.09	-21.207	10	OL09	-0.1445	0.0255
2019	153	10	36	29	186.09	-21.207	10	OL10	0.0455	0.0239
2019	153	10	36	29	186.09	-21.207	10	OL11	0.1464	0.0222
2019	154	5	57	9	97.722	0.378	19	OL01	-0.2337	0.0227
2019	154	5	57	9	97.722	0.378	19	OL02	-0.33	0.0243
2019	154	5	57	9	97.722	0.378	19	OL03	0.0654	0.0078
2019	154	5	57	9	97.722	0.378	19	OL04	-0.3227	0.0148
2019	154	5	57	9	97.722	0.378	19	OL05	-0.2518	0.017
2019	154	5	57	9	97.722	0.378	19	OL06	0.0345	0.0152
2019	154	5	57	9	97.722	0.378	19	OL07	0.0409	0.011
2019	154	5	57	9	97.722	0.378	19	OL08	0.2409	0.0063
2019	154	5	57	9	97.722	0.378	19	OL09	0.0936	0.0142
2019	154	5	57	9	97.722	0.378	19	OL10	0.39	0.0156
2019	154	5	57	9	97.722	0.378	19	OL11	0.2727	0.012
2019	155	9	46	18	121.686	22.903	10	OL01	-0.06	0.0715
2019	155	9	46	18	121.686	22.903	10	OL02	0.0591	0.071
2019	155	9	46	18	121.686	22.903	10	OL03	0.1082	0.0809
2019	155	9	46	18	121.686	22.903	10	OL04	0.1318	0.0899
2019	155	9	46	18	121.686	22.903	10	OL05	-0.78	0.0603
2019	155	9	46	18	121.686	22.903	10	OL06	-0.1537	0.0929
2019	155	9	46	18	121.686	22.903	10	OL07	-0.2227	0.0916
2019	155	9	46	18	121.686	22.903	10	OL08	-0.1955	0.078

2019	155	9	46	18	121.686	22.903	10	OL09	0.3454	0.0949
2019	155	9	46	18	121.686	22.903	10	OL10	0.4009	0.1037
2019	155	9	46	18	121.686	22.903	10	OL11	0.3663	0.109
2019	166	21	56	10	185.831	-21.181	13	OL01	0.1827	0.0082
2019	166	21	56	10	185.831	-21.181	13	OL02	0.0927	0.0106
2019	166	21	56	10	185.831	-21.181	13	OL03	-0.0864	0.0124
2019	166	21	56	10	185.831	-21.181	13	OL04	0.0273	0.0137
2019	166	21	56	10	185.831	-21.181	13	OL05	0.0282	0.0141
2019	166	21	56	10	185.831	-21.181	13	OL06	-0.0482	0.0133
2019	166	21	56	10	185.831	-21.181	13	OL07	0.0882	0.0098
2019	166	21	56	10	185.831	-21.181	13	OL08	0.0227	0.0078
2019	166	21	56	10	185.831	-21.181	13	OL09	-0.2391	0.0068
2019	166	21	56	10	185.831	-21.181	13	OL10	-0.0854	0.0084
2019	166	21	56	10	185.831	-21.181	13	OL11	0.0173	0.0085
2019	166	22	55	4	181.9	-30.644	46	OL01	-0.08	0.0594
2019	166	22	55	4	181.9	-30.644	46	OL02	-0.1618	0.0588
2019	166	22	55	4	181.9	-30.644	46	OL03	-0.0182	0.0596
2019	166	22	55	4	181.9	-30.644	46	OL04	-0.0227	0.0642
2019	166	22	55	4	181.9	-30.644	46	OL05	-0.0936	0.0631
2019	166	22	55	4	181.9	-30.644	46	OL06	-0.0236	0.0599
2019	166	22	55	4	181.9	-30.644	46	OL07	0.0518	0.0634
2019	166	22	55	4	181.9	-30.644	46	OL08	0.1945	0.0656
2019	166	22	55	4	181.9	-30.644	46	OL09	-0.1818	0.0516
2019	166	22	55	4	181.9	-30.644	46	OL10	0.0991	0.0583
2019	166	22	55	4	181.9	-30.644	46	OL11	0.2364	0.0604
2019	167	5	17	14	181.918	-31	21	OL01	-0.1055	0.157
2019	167	5	17	14	181.918	-31	21	OL02	-0.1355	0.158
2019	167	5	17	14	181.918	-31	21	OL03	-0.1873	0.1592
2019	167	5	17	14	181.918	-31	21	OL04	0.0582	0.1695
2019	167	5	17	14	181.918	-31	21	OL05	-0.2373	0.1297
2019	167	5	17	14	181.918	-31	21	OL06	-0.1609	0.1371
2019	167	5	17	14	181.918	-31	21	OL07	0.2318	0.1672
2019	167	5	17	14	181.918	-31	21	OL08	0.23	0.1561
2019	167	5	17	14	181.918	-31	21	OL09	-0.2818	0.1237
2019	167	5	17	14	181.918	-31	21	OL10	0.1082	0.1325
2019	167	5	17	14	181.918	-31	21	OL11	0.48	0.1332
2019	167	20	58	22	182.204	-31.659	10	OL01	-0.4036	0.1793

2019	167	20	58	22	182.204	-31.659	10	OL02	-0.1264	0.2796
2019	167	20	58	22	182.204	-31.659	10	OL03	0.3727	0.2325
2019	167	20	58	22	182.204	-31.659	10	OL04	-0.38	0.2247
2019	167	20	58	22	182.204	-31.659	10	OL05	-0.5418	0.2593
2019	167	20	58	22	182.204	-31.659	10	OL06	0.2036	0.1294
2019	167	20	58	22	182.204	-31.659	10	OL07	0.51	0.2653
2019	167	20	58	22	182.204	-31.659	10	OL08	0.1073	0.2798
2019	167	20	58	22	182.204	-31.659	10	OL09	0.24	0.2273
2019	167	20	58	22	182.204	-31.659	10	OL10	-0.4482	0.2121
2019	167	20	58	22	182.204	-31.659	10	OL11	0.4664	0.2726
2019	168	6	2	4	182.519	-30.839	12	OL01	0.1327	0.0096
2019	168	6	2	4	182.519	-30.839	12	OL02	-0.0946	0.0159
2019	168	6	2	4	182.519	-30.839	12	OL03	0.0254	0.0143
2019	168	6	2	4	182.519	-30.839	12	OL04	-0.0764	0.0204
2019	168	6	2	4	182.519	-30.839	12	OL05	-0.0809	0.0213
2019	168	6	2	4	182.519	-30.839	12	OL06	-0.2127	0.016
2019	168	6	2	4	182.519	-30.839	12	OL07	0.1209	0.0155
2019	168	6	2	4	182.519	-30.839	12	OL08	-0.0627	0.0166
2019	168	6	2	4	182.519	-30.839	12	OL09	-0.2164	0.0138
2019	168	6	2	4	182.519	-30.839	12	OL10	0.2791	0.0141
2019	168	6	2	4	182.519	-30.839	12	OL11	0.1854	0.0152
2019	170	7	1	45	182.152	-30.524	30	OL01	-0.0509	0.0068
2019	170	7	1	45	182.152	-30.524	30	OL02	-0.2391	0.0058
2019	170	7	1	45	182.152	-30.524	30	OL03	0.0691	0.0027
2019	170	7	1	45	182.152	-30.524	30	OL04	-0.0009	0.0061
2019	170	7	1	45	182.152	-30.524	30	OL05	-0.1336	0.0046
2019	170	7	1	45	182.152	-30.524	30	OL06	0.0473	0.0037
2019	170	7	1	45	182.152	-30.524	30	OL07	0.0682	0.0034
2019	170	7	1	45	182.152	-30.524	30	OL08	0.1682	0.0046
2019	170	7	1	45	182.152	-30.524	30	OL09	-0.2455	0.0066
2019	170	7	1	45	182.152	-30.524	30	OL10	0.1318	0.0048
2019	170	7	1	45	182.152	-30.524	30	OL11	0.1855	0.0048
2019	172	8	37	16	182.532	-30.859	14	OL01	0.04	0.0094
2019	172	8	37	16	182.532	-30.859	14	OL02	-0.0236	0.0059
2019	172	8	37	16	182.532	-30.859	14	OL03	0.0282	0.0059
2019	172	8	37	16	182.532	-30.859	14	OL04	0.0409	0.0048
2019	172	8	37	16	182.532	-30.859	14	OL05	-0.0936	0.0033

2019	172	8	37	16	182.532	-30.859	14	OL06	-0.0073	0.0044
2019	172	8	37	16	182.532	-30.859	14	OL07	0.0064	0.0039
2019	172	8	37	16	182.532	-30.859	14	OL08	0.0864	0.0039
2019	172	8	37	16	182.532	-30.859	14	OL09	-0.2391	0.0056
2019	172	8	37	16	182.532	-30.859	14	OL10	0.0564	0.0054
2019	172	8	37	16	182.532	-30.859	14	OL11	0.1055	0.0033
2019	174	3	53	2	235.7	40.273	9.4	OL01	-0.337	0.3085
2019	174	3	53	2	235.7	40.273	9.4	OL02	-0.329	0.1636
2019	174	3	53	2	235.7	40.273	9.4	OL03	-0.648	0.1772
2019	174	3	53	2	235.7	40.273	9.4	OL04	-0.181	0.2898
2019	174	3	53	2	235.7	40.273	9.4	OL05	-0.419	0.1913
2019	174	3	53	2	235.7	40.273	9.4	OL06	0.18	0.1866
2019	174	3	53	2	235.7	40.273	9.4	OL08	0.333	0.2549
2019	174	3	53	2	235.7	40.273	9.4	OL09	0.439	0.2704
2019	174	3	53	2	235.7	40.273	9.4	OL10	0.699	0.24
2019	174	3	53	2	235.7	40.273	9.4	OL11	0.263	0.2486
2019	175	2	53	39	129.169	-6.408	212	OL01	0.2573	0.0086
2019	175	2	53	39	129.169	-6.408	212	OL02	0.3491	0.0129
2019	175	2	53	39	129.169	-6.408	212	OL03	0.0282	0.008
2019	175	2	53	39	129.169	-6.408	212	OL04	0.1809	0.0102
2019	175	2	53	39	129.169	-6.408	212	OL05	0.23	0.0147
2019	175	2	53	39	129.169	-6.408	212	OL06	-0.4409	0.0059
2019	175	2	53	39	129.169	-6.408	212	OL07	-0.1664	0.0074
2019	175	2	53	39	129.169	-6.408	212	OL08	0.2473	0.0076
2019	175	2	53	39	129.169	-6.408	212	OL09	-0.5191	0.0057
2019	175	2	53	39	129.169	-6.408	212	OL10	-0.2773	0.0081
2019	175	2	53	39	129.169	-6.408	212	OL11	0.1109	0.005
2019	175	11	34	8	182.647	-30.763	10	OL01	0.1	0.0233
2019	175	11	34	8	182.647	-30.763	10	OL02	-0.1609	0.0253
2019	175	11	34	8	182.647	-30.763	10	OL03	0.0782	0.0315
2019	175	11	34	8	182.647	-30.763	10	OL04	-0.0909	0.0301
2019	175	11	34	8	182.647	-30.763	10	OL05	-0.1473	0.0486
2019	175	11	34	8	182.647	-30.763	10	OL06	-0.0746	0.0271
2019	175	11	34	8	182.647	-30.763	10	OL07	0.17	0.0279
2019	175	11	34	8	182.647	-30.763	10	OL08	0.0345	0.0312
2019	175	11	34	8	182.647	-30.763	10	OL09	-0.2264	0.0319
2019	175	11	34	8	182.647	-30.763	10	OL10	0.0136	0.028

2019	175	11	34	8	182.647	-30.763	10	OL11	0.3036	0.0239
2019	176	6	1	51	99.453	-47.872	10	OL01	-1.0382	0.2172
2019	176	6	1	51	99.453	-47.872	10	OL02	-0.3282	0.2083
2019	176	6	1	51	99.453	-47.872	10	OL03	-0.47	0.254
2019	176	6	1	51	99.453	-47.872	10	OL04	-0.3018	0.2885
2019	176	6	1	51	99.453	-47.872	10	OL05	-0.4109	0.2083
2019	176	6	1	51	99.453	-47.872	10	OL06	-0.0673	0.2475
2019	176	6	1	51	99.453	-47.872	10	OL07	0.4773	0.2456
2019	176	6	1	51	99.453	-47.872	10	OL08	0.8445	0.1922
2019	176	6	1	51	99.453	-47.872	10	OL09	-0.0082	0.2909
2019	176	6	1	51	99.453	-47.872	10	OL10	0.8827	0.1624
2019	176	6	1	51	99.453	-47.872	10	OL11	0.42	0.2585
2019	177	2	18	7	164.088	56.182	10	OL01	0.1073	0.035
2019	177	2	18	7	164.088	56.182	10	OL02	-0.2073	0.0304
2019	177	2	18	7	164.088	56.182	10	OL03	0.4664	0.0266
2019	177	2	18	7	164.088	56.182	10	OL04	0.1154	0.0284
2019	177	2	18	7	164.088	56.182	10	OL05	-0.2755	0.0262
2019	177	2	18	7	164.088	56.182	10	OL06	-0.0282	0.0249
2019	177	2	18	7	164.088	56.182	10	OL07	-0.1191	0.0337
2019	177	2	18	7	164.088	56.182	10	OL08	-0.1209	0.0403
2019	177	2	18	7	164.088	56.182	10	OL09	0.0891	0.0309
2019	177	2	18	7	164.088	56.182	10	OL10	0.2754	0.0312
2019	177	2	18	7	164.088	56.182	10	OL11	-0.3027	0.0378
2019	178	11	4	56	180.818	-30.396	10	OL01	0.0727	0.0092
2019	178	11	4	56	180.818	-30.396	10	OL02	0.1064	0.0073
2019	178	11	4	56	180.818	-30.396	10	OL03	0.1	0.0099
2019	178	11	4	56	180.818	-30.396	10	OL04	0.1718	0.0086
2019	178	11	4	56	180.818	-30.396	10	OL05	-0.1764	0.0135
2019	178	11	4	56	180.818	-30.396	10	OL06	-0.0991	0.007
2019	178	11	4	56	180.818	-30.396	10	OL07	0.0545	0.0058
2019	178	11	4	56	180.818	-30.396	10	OL08	0.0245	0.0085
2019	178	11	4	56	180.818	-30.396	10	OL09	-0.3255	0.0064
2019	178	11	4	56	180.818	-30.396	10	OL10	-0.03	0.0082
2019	178	11	4	56	180.818	-30.396	10	OL11	0.1009	0.008
2019	184	3	45	29	180.485	-22.136	596.1	OL01	-0.3136	0.1906
2019	184	3	45	29	180.485	-22.136	596.1	OL02	-0.2109	0.1588
2019	184	3	45	29	180.485	-22.136	596.1	OL03	-0.3264	0.2208

2019	184	3	45	29	180.485	-22.136	596.1	OL04	0.13	0.093
2019	184	3	45	29	180.485	-22.136	596.1	OL05	0.1873	0.1697
2019	184	3	45	29	180.485	-22.136	596.1	OL06	0.1727	0.2492
2019	184	3	45	29	180.485	-22.136	596.1	OL07	-0.1645	0.1872
2019	184	3	45	29	180.485	-22.136	596.1	OL08	0.2545	0.1751
2019	184	3	45	29	180.485	-22.136	596.1	OL09	0.1436	0.2086
2019	184	3	45	29	180.485	-22.136	596.1	OL10	-0.3827	0.1643
2019	184	3	45	29	180.485	-22.136	596.1	OL11	0.51	0.1263
2019	185	4	30	44	229.5	51.237	10	OL01	-0.3355	0.0929
2019	185	4	30	44	229.5	51.237	10	OL02	-0.1973	0.0883
2019	185	4	30	44	229.5	51.237	10	OL03	0.32	0.125
2019	185	4	30	44	229.5	51.237	10	OL04	-0.0927	0.1511
2019	185	4	30	44	229.5	51.237	10	OL05	-0.1046	0.0711
2019	185	4	30	44	229.5	51.237	10	OL06	-0.0164	0.1342
2019	185	4	30	44	229.5	51.237	10	OL07	-0.0518	0.0733
2019	185	4	30	44	229.5	51.237	10	OL08	0.28	0.0908
2019	185	4	30	44	229.5	51.237	10	OL09	0.1209	0.0612
2019	185	4	30	44	229.5	51.237	10	OL10	0.0291	0.0921
2019	185	4	30	44	229.5	51.237	10	OL11	0.0482	0.0941
2019	185	17	33	49	242.496	35.705	10.5	OL01	-0.3355	0.0201
2019	185	17	33	49	242.496	35.705	10.5	OL02	-0.3555	0.0348
2019	185	17	33	49	242.496	35.705	10.5	OL03	0.0163	0.0225
2019	185	17	33	49	242.496	35.705	10.5	OL04	-0.1509	0.0263
2019	185	17	33	49	242.496	35.705	10.5	OL05	-0.1555	0.0266
2019	185	17	33	49	242.496	35.705	10.5	OL06	0.1573	0.0251
2019	185	17	33	49	242.496	35.705	10.5	OL07	0.1473	0.0268
2019	185	17	33	49	242.496	35.705	10.5	OL08	0.3482	0.0229
2019	185	17	33	49	242.496	35.705	10.5	OL09	-0.0873	0.0091
2019	185	17	33	49	242.496	35.705	10.5	OL10	0.2127	0.0206
2019	185	17	33	49	242.496	35.705	10.5	OL11	0.2027	0.0249
2019	187	3	19	53	242.401	35.77	8	OL01	-0.3309	0.0433
2019	187	3	19	53	242.401	35.77	8	OL02	-0.3937	0.045
2019	187	3	19	53	242.401	35.77	8	OL03	0.08	0.031
2019	187	3	19	53	242.401	35.77	8	OL04	-0.1573	0.0407
2019	187	3	19	53	242.401	35.77	8	OL05	-0.0473	0.0361
2019	187	3	19	53	242.401	35.77	8	OL06	0.0373	0.0273
2019	187	3	19	53	242.401	35.77	8	OL07	0.1391	0.0308

2019	187	3	19	53	242.401	35.77	8	OL08	0.3245	0.0217
2019	187	3	19	53	242.401	35.77	8	OL09	0.0018	0.0308
2019	187	3	19	53	242.401	35.77	8	OL10	0.1854	0.0247
2019	187	3	19	53	242.401	35.77	8	OL11	0.1609	0.0259
2019	190	18	43	43	192.517	52.899	33.1	OL01	0.1927	0.1492
2019	190	18	43	43	192.517	52.899	33.1	OL02	-0.3764	0.2479
2019	190	18	43	43	192.517	52.899	33.1	OL03	0.7964	0.2015
2019	190	18	43	43	192.517	52.899	33.1	OL04	-0.3345	0.2116
2019	190	18	43	43	192.517	52.899	33.1	OL05	-0.6727	0.2647
2019	190	18	43	43	192.517	52.899	33.1	OL06	0.5209	0.229
2019	190	18	43	43	192.517	52.899	33.1	OL07	0.3391	0.1225
2019	190	18	43	43	192.517	52.899	33.1	OL08	-0.2991	0.2391
2019	190	18	43	43	192.517	52.899	33.1	OL09	0.1836	0.239
2019	190	18	43	43	192.517	52.899	33.1	OL10	-0.5573	0.201
2019	190	18	43	43	192.517	52.899	33.1	OL11	0.2073	0.2653
2019	195	5	39	23	120.358	-18.224	10	OL01	-0.3836	0.0041
2019	195	5	39	23	120.358	-18.224	10	OL02	-0.3173	0.0052
2019	195	5	39	23	120.358	-18.224	10	OL03	-0.2273	0.0052
2019	195	5	39	23	120.358	-18.224	10	OL04	-0.1955	0.0026
2019	195	5	39	23	120.358	-18.224	10	OL05	0.0518	0.0067
2019	195	5	39	23	120.358	-18.224	10	OL06	-0.0564	0.0063
2019	195	5	39	23	120.358	-18.224	10	OL07	0.0845	0.0061
2019	195	5	39	23	120.358	-18.224	10	OL08	0.5418	0.0131
2019	195	5	39	23	120.358	-18.224	10	OL09	-0.28	0.0089
2019	195	5	39	23	120.358	-18.224	10	OL10	0.1345	0.0066
2019	195	5	39	23	120.358	-18.224	10	OL11	0.6473	0.0064
2019	204	10	33	24	154.114	-61.287	10	OL01	-0.3827	0.0537
2019	204	10	33	24	154.114	-61.287	10	OL02	-0.2245	0.0901
2019	204	10	33	24	154.114	-61.287	10	OL03	-0.59	0.0845
2019	204	10	33	24	154.114	-61.287	10	OL04	0.0227	0.0503
2019	204	10	33	24	154.114	-61.287	10	OL05	0.1173	0.0641
2019	204	10	33	24	154.114	-61.287	10	OL06	-0.1073	0.0775
2019	204	10	33	24	154.114	-61.287	10	OL07	0.3773	0.1111
2019	204	10	33	24	154.114	-61.287	10	OL08	0.4273	0.0288
2019	204	10	33	24	154.114	-61.287	10	OL09	-0.2055	0.0783
2019	204	10	33	24	154.114	-61.287	10	OL10	0.2409	0.0495
2019	204	10	33	24	154.114	-61.287	10	OL11	0.3245	0.066

2019	204	23	8	56	180.491	-33.798	35	OL01	-0.1209	0.0619
2019	204	23	8	56	180.491	-33.798	35	OL02	-0.0555	0.0709
2019	204	23	8	56	180.491	-33.798	35	OL03	0.0609	0.0625
2019	204	23	8	56	180.491	-33.798	35	OL04	-0.0255	0.0689
2019	204	23	8	56	180.491	-33.798	35	OL05	0.1309	0.0831
2019	204	23	8	56	180.491	-33.798	35	OL06	0.0573	0.0949
2019	204	23	8	56	180.491	-33.798	35	OL07	-0.1909	0.0942
2019	204	23	8	56	180.491	-33.798	35	OL08	0.2027	0.0719
2019	204	23	8	56	180.491	-33.798	35	OL09	-0.3337	0.0754
2019	204	23	8	56	180.491	-33.798	35	OL10	0.0873	0.0434
2019	204	23	8	56	180.491	-33.798	35	OL11	0.1873	0.0575
2019	207	23	37	58	121.974	20.837	9	OL01	0.0745	0.0104
2019	207	23	37	58	121.974	20.837	9	OL02	0.3018	0.0157
2019	207	23	37	58	121.974	20.837	9	OL03	0.2218	0.0132
2019	207	23	37	58	121.974	20.837	9	OL04	0	0.0145
2019	207	23	37	58	121.974	20.837	9	OL05	-0.0555	0.0107
2019	207	23	37	58	121.974	20.837	9	OL06	-0.2182	0.0113
2019	207	23	37	58	121.974	20.837	9	OL07	0.2873	0.0104
2019	207	23	37	58	121.974	20.837	9	OL08	-0.0291	0.0205
2019	207	23	37	58	121.974	20.837	9	OL09	-0.15	0.018
2019	207	23	37	58	121.974	20.837	9	OL10	-0.13	0.0151
2019	207	23	37	58	121.974	20.837	9	OL11	-0.3027	0.0249
2019	212	15	2	33	167.998	-16.198	181	OL01	0.17	0.006
2019	212	15	2	33	167.998	-16.198	181	OL02	0.2973	0.0047
2019	212	15	2	33	167.998	-16.198	181	OL03	0.0155	0.0065
2019	212	15	2	33	167.998	-16.198	181	OL04	0.06	0.0064
2019	212	15	2	33	167.998	-16.198	181	OL05	0.0255	0.0047
2019	212	15	2	33	167.998	-16.198	181	OL06	-0.19	0.0051
2019	212	15	2	33	167.998	-16.198	181	OL07	-0.0145	0.0032
2019	212	15	2	33	167.998	-16.198	181	OL08	0.1127	0.0047
2019	212	15	2	33	167.998	-16.198	181	OL09	-0.5036	0.0038
2019	212	15	2	33	167.998	-16.198	181	OL10	-0.0773	0.0032
2019	212	15	2	33	167.998	-16.198	181	OL11	0.1046	0.0045
2019	214	12	3	27	104.791	-7.282	49	OL01	-0.4455	0.1033
2019	214	12	3	27	104.791	-7.282	49	OL02	-0.5309	0.1061
2019	214	12	3	27	104.791	-7.282	49	OL03	-0.2418	0.0969
2019	214	12	3	27	104.791	-7.282	49	OL04	-0.1927	0.0984

2019	214	12	3	27	104.791	-7.282	49	OL05	-0.0173	0.0859
2019	214	12	3	27	104.791	-7.282	49	OL06	0.0264	0.0858
2019	214	12	3	27	104.791	-7.282	49	OL07	0.1309	0.0803
2019	214	12	3	27	104.791	-7.282	49	OL08	0.4464	0.0645
2019	214	12	3	27	104.791	-7.282	49	OL09	-0.0345	0.0729
2019	214	12	3	27	104.791	-7.282	49	OL10	0.3118	0.0784
2019	214	12	3	27	104.791	-7.282	49	OL11	0.5473	0.0829
2019	219	21	28	3	121.93	24.478	20.8	OL01	-0.23	0.252
2019	219	21	28	3	121.93	24.478	20.8	OL02	-0.3073	0.284
2019	219	21	28	3	121.93	24.478	20.8	OL03	-0.2155	0.2945
2019	219	21	28	3	121.93	24.478	20.8	OL04	-0.0555	0.2193
2019	219	21	28	3	121.93	24.478	20.8	OL05	-0.3455	0.2476
2019	219	21	28	3	121.93	24.478	20.8	OL06	-0.0618	0.1648
2019	219	21	28	3	121.93	24.478	20.8	OL07	0.3945	0.2944
2019	219	21	28	3	121.93	24.478	20.8	OL08	0.0409	0.2795
2019	219	21	28	3	121.93	24.478	20.8	OL09	0.1245	0.267
2019	219	21	28	3	121.93	24.478	20.8	OL10	0.2582	0.3003
2019	219	21	28	3	121.93	24.478	20.8	OL11	0.3973	0.2228
2019	233	14	28	25	139.324	-50.33	10	OL01	-0.5118	0.1515
2019	233	14	28	25	139.324	-50.33	10	OL02	-0.6664	0.2234
2019	233	14	28	25	139.324	-50.33	10	OL03	-0.0855	0.1854
2019	233	14	28	25	139.324	-50.33	10	OL04	0.0091	0.1343
2019	233	14	28	25	139.324	-50.33	10	OL05	-0.1618	0.1505
2019	233	14	28	25	139.324	-50.33	10	OL06	0.0054	0.1037
2019	233	14	28	25	139.324	-50.33	10	OL07	0.1536	0.1728
2019	233	14	28	25	139.324	-50.33	10	OL08	0.27	0.1751
2019	233	14	28	25	139.324	-50.33	10	OL09	0.1473	0.0553
2019	233	14	28	25	139.324	-50.33	10	OL10	0.2427	0.12
2019	233	14	28	25	139.324	-50.33	10	OL11	0.5973	0.1433
2019	234	19	27	11	182.587	-14.667	10	OL01	0.2936	0.0935
2019	234	19	27	11	182.587	-14.667	10	OL02	0.4318	0.118
2019	234	19	27	11	182.587	-14.667	10	OL03	-0.26	0.0622
2019	234	19	27	11	182.587	-14.667	10	OL04	0.2009	0.0955
2019	234	19	27	11	182.587	-14.667	10	OL05	0.49	0.0867
2019	234	19	27	11	182.587	-14.667	10	OL06	0.0727	0.1751
2019	234	19	27	11	182.587	-14.667	10	OL07	0.46	0.0889
2019	234	19	27	11	182.587	-14.667	10	OL08	0.1564	0.0886

2019	234	19	27	11	182.587	-14.667	10	OL09	-0.5827	0.1263
2019	234	19	27	11	182.587	-14.667	10	OL10	-0.8573	0.1458
2019	234	19	27	11	182.587	-14.667	10	OL11	-0.4055	0.2395
2019	241	15	7	58	232.118	43.542	10	OL01	-0.13	0.0162
2019	241	15	7	58	232.118	43.542	10	OL02	-0.2927	0.0291
2019	241	15	7	58	232.118	43.542	10	OL03	0.01	0.02
2019	241	15	7	58	232.118	43.542	10	OL04	-0.1918	0.0282
2019	241	15	7	58	232.118	43.542	10	OL05	-0.2182	0.0168
2019	241	15	7	58	232.118	43.542	10	OL06	0.1691	0.0189
2019	241	15	7	58	232.118	43.542	10	OL07	0.1136	0.0192
2019	241	15	7	58	232.118	43.542	10	OL08	0.1718	0.0132
2019	241	15	7	58	232.118	43.542	10	OL09	0.0791	0.0169
2019	241	15	7	58	232.118	43.542	10	OL10	0.1482	0.0121
2019	241	15	7	58	232.118	43.542	10	OL11	0.1409	0.0248
2019	244	15	54	20	181.43	-20.364	591	OL01	0.2227	0.0066
2019	244	15	54	20	181.43	-20.364	591	OL02	0.1636	0.0089
2019	244	15	54	20	181.43	-20.364	591	OL03	-0.0227	0.008
2019	244	15	54	20	181.43	-20.364	591	OL04	0.1182	0.0063
2019	244	15	54	20	181.43	-20.364	591	OL05	0.0618	0.0073
2019	244	15	54	20	181.43	-20.364	591	OL06	-0.1173	0.0059
2019	244	15	54	20	181.43	-20.364	591	OL07	0.0809	0.0082
2019	244	15	54	20	181.43	-20.364	591	OL08	0.0136	0.0063
2019	244	15	54	20	181.43	-20.364	591	OL09	-0.3264	0.0151
2019	244	15	54	20	181.43	-20.364	591	OL10	-0.15	0.0137
2019	244	15	54	20	181.43	-20.364	591	OL11	-0.0446	0.011
2019	248	15	2	45	232.181	43.718	10	OL01	-0.3864	0.1966
2019	248	15	2	45	232.181	43.718	10	OL02	-0.4645	0.1809
2019	248	15	2	45	232.181	43.718	10	OL03	-0.0664	0.2115
2019	248	15	2	45	232.181	43.718	10	OL04	0.1327	0.191
2019	248	15	2	45	232.181	43.718	10	OL05	-0.4909	0.1705
2019	248	15	2	45	232.181	43.718	10	OL06	-0.05	0.2169
2019	248	15	2	45	232.181	43.718	10	OL07	0.4136	0.2307
2019	248	15	2	45	232.181	43.718	10	OL08	0.1273	0.2117
2019	248	15	2	45	232.181	43.718	10	OL09	0.3082	0.2647
2019	248	15	2	45	232.181	43.718	10	OL10	0.4318	0.2502
2019	248	15	2	45	232.181	43.718	10	OL11	0.0446	0.2155
2019	249	15	27	56	169.053	-20.184	27	OL01	0.0182	0.0559

2019	249	15	27	56	169.053	-20.184	27	OL02	-0.0464	0.0704
2019	249	15	27	56	169.053	-20.184	27	OL03	-0.1236	0.0393
2019	249	15	27	56	169.053	-20.184	27	OL04	0.1655	0.0537
2019	249	15	27	56	169.053	-20.184	27	OL05	-0.1	0.0511
2019	249	15	27	56	169.053	-20.184	27	OL06	-0.0509	0.053
2019	249	15	27	56	169.053	-20.184	27	OL07	0.1073	0.0503
2019	249	15	27	56	169.053	-20.184	27	OL08	0.2455	0.0975
2019	249	15	27	56	169.053	-20.184	27	OL09	-0.4773	0.0629
2019	249	15	27	56	169.053	-20.184	27	OL10	-0.0382	0.0582
2019	249	15	27	56	169.053	-20.184	27	OL11	0.3	0.0652
2019	265	7	32	33	186.86	-15.554	10	OL01	0.69	0.0629
2019	265	7	32	33	186.86	-15.554	10	OL02	0.5182	0.0886
2019	265	7	32	33	186.86	-15.554	10	OL03	-0.4409	0.103
2019	265	7	32	33	186.86	-15.554	10	OL04	0.1909	0.0673
2019	265	7	32	33	186.86	-15.554	10	OL05	0.0409	0.0856
2019	265	7	32	33	186.86	-15.554	10	OL06	-0.3627	0.0822
2019	265	7	32	33	186.86	-15.554	10	OL07	0.0236	0.0679
2019	265	7	32	33	186.86	-15.554	10	OL08	-0.1382	0.0806
2019	265	7	32	33	186.86	-15.554	10	OL09	0.0555	0.1056
2019	265	7	32	33	186.86	-15.554	10	OL10	-0.4464	0.0624
2019	265	7	32	33	186.86	-15.554	10	OL11	-0.1309	0.0935
2019	270	12	5	2	182.137	-30.173	34	OL01	0.03	0.0214
2019	270	12	5	2	182.137	-30.173	34	OL02	-0.07	0.0174
2019	270	12	5	2	182.137	-30.173	34	OL03	-0.0245	0.0209
2019	270	12	5	2	182.137	-30.173	34	OL04	0.09	0.0172
2019	270	12	5	2	182.137	-30.173	34	OL05	-0.0991	0.0222
2019	270	12	5	2	182.137	-30.173	34	OL06	0.0264	0.0189
2019	270	12	5	2	182.137	-30.173	34	OL07	0.0527	0.0193
2019	270	12	5	2	182.137	-30.173	34	OL08	0.0445	0.0162
2019	270	12	5	2	182.137	-30.173	34	OL09	-0.2527	0.0237
2019	270	12	5	2	182.137	-30.173	34	OL10	0.0982	0.0231
2019	270	12	5	2	182.137	-30.173	34	OL11	0.1045	0.0206
2019	287	22	23	54	101.195	-4.482	19	OL01	-0.27	0.0752
2019	287	22	23	54	101.195	-4.482	19	OL02	-0.2673	0.0871
2019	287	22	23	54	101.195	-4.482	19	OL03	-0.3127	0.0812
2019	287	22	23	54	101.195	-4.482	19	OL04	-0.3127	0.1022
2019	287	22	23	54	101.195	-4.482	19	OL05	-0.0873	0.0815

2019	287	22	23	54	101.195	-4.482	19	OL06	-0.0309	0.0786
2019	287	22	23	54	101.195	-4.482	19	OL07	0.1073	0.0792
2019	287	22	23	54	101.195	-4.482	19	OL08	0.0209	0.1006
2019	287	22	23	54	101.195	-4.482	19	OL09	0.1564	0.0848
2019	287	22	23	54	101.195	-4.482	19	OL10	0.5409	0.0904
2019	287	22	23	54	101.195	-4.482	19	OL11	0.4554	0.0976
2019	294	2	52	29	169.488	-19.018	231	OL01	-0.0091	0.0795
2019	294	2	52	29	169.488	-19.018	231	OL02	0.0454	0.0683
2019	294	2	52	29	169.488	-19.018	231	OL03	-0.3309	0.0619
2019	294	2	52	29	169.488	-19.018	231	OL04	0.2218	0.0984
2019	294	2	52	29	169.488	-19.018	231	OL05	-0.0164	0.095
2019	294	2	52	29	169.488	-19.018	231	OL06	-0.1373	0.0641
2019	294	2	52	29	169.488	-19.018	231	OL07	0.0891	0.0732
2019	294	2	52	29	169.488	-19.018	231	OL08	0.0109	0.0709
2019	294	2	52	29	169.488	-19.018	231	OL09	-0.5427	0.0629
2019	294	2	52	29	169.488	-19.018	231	OL10	0.2345	0.0667
2019	294	2	52	29	169.488	-19.018	231	OL11	0.4345	0.061
2019	295	4	18	38	186.95	-15.198	10	OL01	0.7891	0.09
2019	295	4	18	38	186.95	-15.198	10	OL02	0.3954	0.1802
2019	295	4	18	38	186.95	-15.198	10	OL03	-0.1546	0.1404
2019	295	4	18	38	186.95	-15.198	10	OL04	0.4791	0.1521
2019	295	4	18	38	186.95	-15.198	10	OL05	0.1109	0.1047
2019	295	4	18	38	186.95	-15.198	10	OL06	-0.4046	0.1229
2019	295	4	18	38	186.95	-15.198	10	OL07	0.0573	0.1044
2019	295	4	18	38	186.95	-15.198	10	OL08	-0.0418	0.1937
2019	295	4	18	38	186.95	-15.198	10	OL09	-0.4546	0.0747
2019	295	4	18	38	186.95	-15.198	10	OL10	-0.4991	0.1161
2019	295	4	18	38	186.95	-15.198	10	OL11	-0.2773	0.0947
2019	299	0	41	25	189.861	52.308	35	OL01	0.1073	0.1162
2019	299	0	41	25	189.861	52.308	35	OL02	-0.3255	0.1635
2019	299	0	41	25	189.861	52.308	35	OL03	0.5527	0.2185
2019	299	0	41	25	189.861	52.308	35	OL04	0.0818	0.26
2019	299	0	41	25	189.861	52.308	35	OL05	-0.35	0.1966
2019	299	0	41	25	189.861	52.308	35	OL06	0.3082	0.1758
2019	299	0	41	25	189.861	52.308	35	OL07	-0.2236	0.146
2019	299	0	41	25	189.861	52.308	35	OL08	-0.4555	0.1875
2019	299	0	41	25	189.861	52.308	35	OL09	0.4064	0.2332

2019	299	0	41	25	189.861	52.308	35	OL10	0.3154	0.2702
2019	299	0	41	25	189.861	52.308	35	OL11	-0.4173	0.2389

**Table S4.** Relative travel time measurements ( $dt$ ) and uncertainty of low-frequency filtered (0.02–0.04 Hz) teleseismic P-waveforms at each station, obtained through the MCCC method (VanDecar & Crosson, 1990). The table includes event information such as the date and time of the event (hour, minute, and second), as well as location of the event, which is specified by its longitude, latitude, and depth based on USGS list. An example of mid-frequency filtered seismic traces showing relative travelttime measurement for an earthquake occurred on Dec. 20, 2018 is shown in **Figure S20c**.

**Movie S1.** A 3-D view of our  $V_P$  model. Isosurfaces of 1% and 2%  $\delta \ln V_P$  anomalies are shown as transparent and opaque blue colors, respectively, whereas isosurfaces of -1% and -2%  $\delta \ln V_P$  anomalies are as transparent and opaque red colors, respectively. The velocity model shown in **Figure 6** was smoothed using a Gaussian weighted mean filter with a width of  $3.2^\circ$  for 3-D presentation. Depths of 100, 200, and 300 km are shown as colored planes, respectively. The location of the Oldest-1 array stations is represented as red triangles on the bathymetry. The bathymetry is exaggerated by 3 times for visualization purposes.