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Klyuchevskoy volcanic group experiment (KISS)

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GIPP Experiment and Data Archive



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Klyuchevskoy volcanic group experiment (KISS)

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Abstract

The KISS network was installed in the frame of the "Klyuchevskoy Investigation - Seismic Structure of an extraordinary volcanic system" project and recorded data between summer 2015 and summer 2016 in one of the world's largest clusters of subduction volcanoes - the Klyuchevskoy volcanic group (KVG). It is located in eastern Russia at the northern end of the Kuril-Kamchatka subduction zone close to its intersection with the Aleutian arc and the northwestern termination of Hawaii-Emperor seamount chain. Additional to the 4700m high Mount Klyuchevskoy the KVG contains 12 other volcanoes that have together erupted about 1 cubic meter rock per second averaged over the past 10,000 years. Among those Klyuchevskoy, Bezymianny and Tolbachik were the most active ones during the last decades with eruptions styles ranging from explosive to Hawaiian-type. The KISS experiment is designed to investigate the volcanic and seismic processes and its structural setting in the KVG. The network covers a circular region of about 80km diameter with some linear extensions. It includes data from 77 temporary seismic stations with broadband and short period sensors that were installed on concrete plates in about 60cm deep holes. Due to the local conditions the stations were battery powered and could not be serviced during the experiment. GPS reception of the digitizers was not continuous at all stations due to thick snow cover and vegetation. Waveform data are available from the GEOFON data centre, under network code X9, and are embargoed until end of 2019.

1 Introduction

To undertake a large- scale seismological investigation of the Klyuchevskoy Volcanic Group (KVG), we formed a consortium of institutions from Russia, France, and Germany and designed the KISS experiment. We operated a temporary network of 83 seismographs between August 2015 and July 2016. An EOS article about the experiment is available from Shapiro et al. (2017, https://doi.org/10.1029/2017EO071351).

As part of the KISS project ("Klyuchevskoy Investigation - Seismic Structure of an extraordinary volcanic system"), the deployment of temporary stations was designed to complement the permanent etwork of the Kamchatka Branch of the Geophysical Survey of Russia. The waveform data from the permanent stations during the concurrent recording period is available from the GEOFON data centre under network code D0. Due to terms of the project, authorisation must be granted to access this restricted dataset (D0).

2 Data Acquisition

2.1 Experimental Design and Schedule

The station distribution is shown in Fig. 1, and Table 1 summarises the most important information about each station.

2.2 Site Descriptions

Both broadband and short period sensors were installed on cemnet founded concrete plates in about 60cm deep holes. Due to the local conditions the stations were battery powered and could not be serviced during the experiment. GPS reception of the digitizers was not continuous at all stations due to thick snow cover and vegetation.

2.3 Instrumentation

Stations for this network were partly supplied through a GIPP equipment loan: http://gipp.gfz-potsdam.de/webapp/projects/view/507

Table 1 summarises the most important information about each station.

2.4 Sensor orientation

Sensors in the KISS experiment were oriented using a compass and the location estimated using a GPS. To assess the accuracy of the sensor orientation a second reference location was measured with GPS at some distance in the north-direction indicated by the deployed sensor. Locations of these reference points are listed in table Table 2. In some cases the reference point could not be taken due north because of topographic circumstances. In these cases the reference point was taken in the directions that the deployed sensor indicated as south which is indiceted in the last column of Table 2. In some cases it was not possible to measure the location of a reference point at all.

3 Data Description

3.1 Data Completeness

Fig. 3 shows the uptime of each stations.

3.2 Data Processing

Data of this dataset is not processed. However, format conversion was necessary. In the case of station opearted with Omnirecs Cube digitizers the conversion involves a resampling of the data to correct the actual sampling rate of the digitizer that is determined by the internal clock only to a proper constant sampling rate. This conversion and resampling was done using the GIPP tools https://www.gfz-potsdam.de/en/section/geophysical-deep-sounding/infrastructure/geophysical-instrument-pool-potsdam-gipp/software/gipptools/ with the cube2mseed option –fringe-samples=NOMINAL. Raw data recorded by the Omnirecs Cube digitizers can be accessed as a supplementary dataset.

3.3 Data quality and Noise Estimation

Fig. Fig. 2 shows noise probability density functions for all channels.

3.4 Timing Accuracy

The timing accuracy of the dataset was assessed with the methodology described in Sens-Schönfelder (2008). Synchronizing seismic networks with ambient noise, *Geophysical Journal International*, 174, 966–970, https://doi.org/10.1111/j.1365-246X.2008.03842.x

No systematic timing errors were found in the dataset indicating that the GPS tags were frequent enough for the linear drift correction to provide timing accuracy below the resolution of the noise method. For the Cube digitizers the daily number of GPS locks are illustrated in Fig. 4. Time periods with low numbers indicate impaired GPS signal due to vegetation or snow.

4 Data Access

4.1 File format and access tools

The data are stored in the GEOFON database, and selected time windows can be requested by EIDA access tools as documented on http://geofon.gfz-potsdam.de/waveform/. Normally the data are delivered in miniseed format. The current data access possibilities can always be found by resolving the DOI of the dataset.

4.2 Raw Data and Pictures of the Station Locations

A supplementary dataset including pictures of the station locations and the raw files recorded by the DataCube recorders is archives at the GIPP (http://doi.org/10.5880/GIPP.201505.1).

4.3 Availability

Data are embargoed until 12/2019 and are then open.

5 Acknowledgments

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Table 1: Station table. Note that start and end times represent the maximum validity of the corresponding configurations, not the actual data availability or time in the field. Azi: Azimuth of north or '1' component.

1907 1907	Label	Lat	Lon	Ele	Azi	Rate	Sensor	ID	Logger	Id	Start	End	Channels
BOAT SALES 160,3323 134-55 90 100 CML40011 xxxx BAIKAL 0013 2015-08-09 2015-09-22 SALES SILES SALES SALE													
BOA S.6.22241 100.0878 11324 90 100 CMF-011 XXXX BAIKAL 0063 2015-08-09 2016-02-09 SIRI SINI SINI SINI SINI SINI SINI SINI	1												
BOS 55,01511 10,0753 1377.5 90 100 CME-9011 1322 105,040.2 2015-90.4 SIZS INS SIES													
B07 S5.98889 190.09 1511.0 90 100 CMEHOII 0719 BAIKAL 0732 2015.08-10 2015.08-07 SILZ SIN SHE B09 S5.97950 100.059 1208.1 90 100 CMEHOII 0719 BAIKAL 0005 2015.08-09 2016.04-05 SILZ SIN SHE B10 S5.77981 100.050 110.08 90 70 THIRD COUNTY BAIKAL 0005 2015.08-09 2016.04-05 SILZ SIN SHE B11 S5.7752 160.9715 579.574 90 50 THIRD COUNTY COUNTY BAIKAL 0005 2015.08-09 2016.04-05 SILZ SIN SHE B11 S5.0725 160.9818 S1.30 50 LE IDUI 1181 CUBR 0832 2015.08-07 2016.07-05 HITZ HIN HIRE B12 S5.92607 160.9875 S5.977 90 90 90 FILIDIU 1181 CUBR 0832 2015.08-07 2016.07-05 HITZ HIN HIRE B12 S5.92607 160.975 S1.20 90 90 90 90 FILIDIU EMBRISH CUBR 0837 2016.09-07 HIZ HIN HIRE B13 S5.04277 100.0908 70.24 90 90 FILIDIU EMBRISH CUBR 0837 2016.09-07 HIZ HIN HIRE B18 S5.0477 100.0908 70.24 90 90 FILIDIU TEGU CUBR 0837 2015.08-07 2016.07-06 HIZ HIN HIRE B18 S5.0478 40.09097 1005.08 90 50 CMC-6TT TG07 CUBR 0837 2015.08-07 2016.07-06 HIZ HIN HIRE B19 S6.1799 100.7529 939.0 90 50 CMC-6TT TG07 CUBR 0837 2015.08-09 2016.07-06 HIZ HIN HIRE B19 S6.1799 100.7529 939.0 90 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B19 S6.1799 100.7529 939.0 90 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B19 S6.1799 100.7529 939.0 90 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B18 S5.2718 E0.2233 1008.08 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B18 S6.1791 E0.2233 1008.08 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B18 S6.1791 E0.2233 1008.08 50 CMC-6TT TG07 CUBR 0832 2015.08-00 2016.07-06 HIZ HIN HIRE B18 S5.3716 E0.2233 E0.0233 E0.0233 E0.02	1												
BOS 55,93296 100,059 14298 90 100 CMEHOII													
B09 S.5.1905 190.05 19	1												
Ref 55,7178 160,305 11618 90 50 Trillium Compact C021 CUBE 0822 2015-08-03 2016-07-06 HHZ HIN HINE HIN 156,01225 160,8018 591,3934 2075 90 50 Trillium Compact C031 CUBE 0832 2015-08-07 2016-07-07 SHZ SHN SHE 1813 55,0125 160,801 500,805 90 50 Trillium Compact C031 CUBE 0832 2015-08-07 2016-07-07 SHZ SHN SHE 1813 55,8425 160,801 500,805 90 90 Trillium Compact C037 CUBE 0833 2015-08-07 2016-07-07 SHZ SHN SHE 1813 55,8425 160,801 500,805 30 50 Trillium Compact C037 CUBE 0835 2015-08-06 2015-08-15 SHZ SHN SHE 1813 55,8677 160,6098 702.4 90 30 Trillium Compact C049 CUBE 0837 2015-08-06 2015-08-15 SHZ SHN SHE 1813 55,8677 160,6098 702.4 90 30 Trillium Compact C049 CUBE 0837 2015-08-06 2015-08-15 SHZ SHN SHE 1813 55,8677 160,6098 702.5 90 70 Trillium Compact C049 CUBE 0837 2015-08-06 2015-08-15 SHZ SHN SHE 1813 50,760 160,5002 A133 90 50 Trillium Compact C049 CUBE 0837 2015-08-06 2015-08-15 SHZ SHN SHE 1813 50,760 61,0223 190,809 90 50 Trillium Compact C049 CUBE 0832 2015-08-06 2015-08-16 SHZ SHN SHE 182 50,760 61,0223 190,809 90 50 Trillium Compact C049 CUBE 0822 2015-08-07 2016-07-06 SHZ SHN SHE 182 50,900 100,600 100,600 SHZ SHN SHE 182 50,900 100,600 SHZ SHN SHE 182 50,900 100,600 SHZ SHN SHE 182 50,900 SHZ SHN SHE	1												
R10 55.1195 59.9531 267.2 90 50 Trillium Compact Cl34 CUBE 6832 2015-6807 2016-07-07 HHZ HIN PHE R12 55.952607 160.8755 539.7 90 50 Trillium Compact Cl36 CUBE 6834 2015-68-07 2016-07-07 HHZ HIN PHE R18 55.76540 160.7676 1019.9 90 50 Trillium Compact Cl37 CUBE 6835 2015-68-07 2016-07-07 HHZ HIN PHE R18 55.65167 106.0590 70.0 493.4 90 50 Trillium Compact Cl37 CUBE 6835 2015-68-07 2016-07-07 HHZ HIN PHE R18 55.65167 106.0590 70.0 433.4 90 50 Trillium Compact Cl37 CUBE 6838 2015-68-07 2016-07-07 HHZ HIN PHE R18 55.65167 106.0520 433.4 90 50 Trillium Compact Cl49 CUBE 6838 2015-68-00 2015-68-10 HHZ HIN PHE R18 56.2004 160.5937 706.53 90 50 CMG-67 Tot70 CUBE 6838 2015-68-00 2015-68-10 HHZ HIN PHE R18 56.2004 160.5937 706.53 90 50 CMG-67 Tot70 CUBE 60.300 2015-68-10 HHZ HIN PHE R18 56.1793 100.7529 90 90 50 CMG-67 Tot70 CUBE 60.300 2015-68-10 HHZ HIN PHE R18 56.1793 100.2529 90 90 50 CMG-67 Tot70 CUBE 60.300 2015-68-10 HHZ HIN PHE R18 56.1793 100.000 90 50 CMG-67 Tot70 CUBE 60.300 2015-68-10 HHZ HIN PHE R18 56.1793 100.000 90 50 CMG-67 Tot70 CUBE 60.300 2015-68-10 HHZ HIN PHE CH3 CH	1												
R1 56.01252 160.8018 581.3 90 50 LE-ID/I 1818 CUBE 6833 2015-68-07 2016-07-07 SHZ SHN SHE 1813 55.84251 160.861 540.876 190.7676 1019 90 50 LE-ID/I 1813 CUBE 6835 2015-68-07 2016-07-07 SHZ SHN SHE 1815 55.68777 160.6998 762.4 90 50 LE-ID/I 1814 CUBE 6835 2015-68-07 2016-07-07 SHZ SHN SHE 1815 55.68777 160.6998 762.4 90 50 LE-ID/I 1814 CUBE 6837 2015-68-06 2016-68-15 SHZ SHN SHE 1817 56.17823 160.4075 1067-8 90 50 CMG-67T 76702 CUBE 6037 2015-68-06 2016-68-07 SHZ SHN SHE 1817 56.17823 160.4075 1067-8 90 50 CMG-67T 76702 CUBE 60.405 2016-69-07 SHZ SHN SHE 1818 56.2041 160.9373 1608-8 90 50 CMG-67T 76702 CUBE 60.405 2016-09-07 SHZ SHN SHE 1818 56.2041 160.9323 160.85 90 50 CMG-67T 76702 CUBE 60.405 2016-09-07 SHZ SHN SHE 1818 56.2041 160.2323 160.405 90 50 CMG-67T 76702 CUBE 60.405 2016-09-06 SHZ SHN SHE 1820 56.1790 160.7529 930.9 90 CMG-67T 76702 CUBE 60.405 2016-09-06 SHZ SHN SHE 1820 56.1790 160.7529 930.9 90 CMG-67T 76702 CUBE 60.405 2016-09-06 SHZ SHN SHE 1820 56.1790 160.7528 930.9 90 CMG-67T 76702 CUBE 60.405 2016-09-06 SHZ SHN SHE 1820 56.1790 160.7528 930.9 90 160.705 SHZ SHN SHE 1820 56.1790 160.7528 930.9 90 160.705 SHZ SHN SHE 1820 90.705													
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IRI-S 58.766-9 160.7767 10199 90 50 Trillium Compact C037 CUBE C038 2015-08-07 2015-08-10 HIZ HIN HIE RI-S 55.65167 160.9026 6313.4 90 50 Trillium Compact C049 CUBE C038 2015-08-06 2015-08-10 HIZ HIN HIE RI-S 55.65167 160.9026 6317.8 90 50 CMG-GTT T06102 CMG-GTT 7977 CUBE C038 2015-08-06 2015-08-10 HIZ HIN HIE RI-S 56.2004 160.937 106.53 90 50 CMG-GTT T06702 CUBE C038 2015-08-09 2016-07-06 HIZ HIN HIE RI-S 55.78518 160.2323 106.53 90 50 CMG-GTT T06705 CUBE C038 2015-08-09 2016-07-06 HIZ HIN HIE RI-S 55.78518 160.2323 106.58 90 50 CMG-GTT T06705 CUBE C032 2015-08-09 2016-07-06 HIZ HIN HIE RI-S 55.78516 160.2354 084.9 50 Trillium Compact C028 CUBE C032 2015-08-09 2016-07-06 RIZ HIN HIE RI-S 55.8756 160.2354 084.9 50 CIB-LID/I 160 CUBE C032 2015-08-09 2016-07-06 RIZ HIN HIE RI-S 55.3456 160.2354 084.9 50 CIB-LID/I 1169 CUBE C032 2015-08-08 2016-07-06 RIZ HIN HIE RI-S 55.3456 160.5381 40.09 50 LE-LID/I 1169 CUBE C032 2015-08-09 2016-07-06 RIZ HIN HIE RI-S 55.3456 160.5381 40.09 50 LE-LID/I 1177 CUBE C032 2015-08-09 C016-07-06 RIZ HIN HIE RI-S 55.3456 10.09 10.00 1	1												
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R16 55.65167 160.9026 431.4 90 50 Trillium Compact C49 CUBE	IR15	55.68777	160.6998	762.4	90	50	LE-1D/1	1184	CUBE	0837	2015-08-06	2015-08-15	SHZ SHN SHE
RIS 56,2004	IR16	55.65167	160.5026	433.4	90	50	Trillium Compact	C049	CUBE	0838	2015-08-06	2015-08-10	HHZ HHN HHE
R19 S6,173 R0,232 R0,233 R0,2	IR17	56.17823	160.4075	1067.8	90	50	CMG-6TD	T6E02	CMG-6TD	уууу	2015-08-09	2016-05-03	HHZ HHN HHE
R2 S5.78518 160.2323 105.8 90 50 LE-ID/I 1879 CUBE 0822 2015.08.07 2016.07.05 HBZ HINN HIE R3 S5.78579 160.2334 90.8 90 50 Trillium Compact C028 CUBE 0823 2015.08.07 2016.07.05 HBZ HINN HIE R6 S5.88794 160.2364 90 50 LE-ID/I 169 CUBE 0824 2015.08.07 2016.07.05 RBZ SINN SHE R6 S5.1117 160.0802 505.1 90 50 LE-ID/I 169 CUBE 0828 2015.08.07 2016.07.05 RBZ SINN SHE R8 S5.2311 160.0802 505.1 90 50 LE-ID/I 1177 CUBE 0829 2015.08.08 2016.07.05 RBZ SINN SHE R8 S5.2311 160.0802 505.1 90 50 LE-ID/I 1177 CUBE 0829 2015.08.08 2016.07.05 RBZ SINN SHE R8 S5.2311 160.0802 505.1 90 50 LE-ID/I 1177 CUBE 0830 2015.08.08 2016.07.05 RBZ SINN SHE R8 S5.2311 160.0802 505.1 90 50 LE-ID/I 1336 CUBE 0861 2015.08.08 2016.07.05 RBZ SINN SHE R8 S5.2311 S9.358 1440 90 50 Trillium Compact C031 CUBE 0862 2015.08.08 2015.09.05 SHZ SINN SHE C01.2 S5.88781 IS9.5695 IS9.56	IR18	56.20044	160.5937	1065.8	90	50	CMG-6T	T6Q75	CUBE	0ADE	2015-08-09	2016-07-06	HHZ HHN HHE
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	03710	55 51057	160 2577	2572	00	5/1							

Continued on next page

Table 1 – continued from previous page

Label	Lat	Lon	Ele	Azi	Rate	Sensor	ID	Logger	Id	Start	End	Channels
SV2	55.75449	160.0419	207.3	90	50	Trillium Compact	C050	CUBE	0855	2015-08-04	2015-09-21	HHZ HHN HHE
SV3	55.55764	160.0851	117.2	90	50	Trillium Compact	C051	CUBE	0856	2015-08-08	2016-05-17	HHZ HHN HHE
SV4	55.88939	159.9505	174.3	90	50	LE-1D/1	1332	CUBE	0601	2015-08-04	2016-07-15	SHZ SHN SHE
SV5	56.01107	160.0373	235.3	90	50	Trillium Compact	C052	CUBE	0603	2015-08-02	2015-09-08	HHZ HHN HHE
SV6	55.79492	160.3444	2105.4	90	50	LE-1D/1	1334	CUBE	0825	2015-08-08	2016-07-05	SHZ SHN SHE
SV7	55.79243	160.5344	1300.6	90	50	Trillium Compact	C054	CUBE	0826	2015-08-08	2016-07-07	HHZ HHN HHE
SV8	55.89952	160.4906	1427.9	90	50	LE-1D/1	334a	CUBE	0827	2015-08-08	2015-11-13	SHZ SHN SHE
SV9	55.99524	160.4304	1835.5	90	50	Trillium Compact	C055	CUBE	0857	2015-08-07	2015-12-18	HHZ HHN HHE

Table 2: Locations of reference points for sensor orinentation. Please note the last column which indicates cases where the reference points are not located in the *north-pointing* direction (default) but in the direction that the deployed sensor indicated as *south*.

B01 56.005256 160.331637 1535.017 B02 56.146097 160.332212 1346.875 B03 56.206812 160.492630 1287.959 B04 56.222923 160.687482 1133.844 B05 56.115524 160.753091 1373.966 B06 56.055136 160.766400 1542.63 B07 55.985612 160.679112 1508.101 B08 55.933209 160.605780 1438.499 B09 56.190458 160.304863 1163.385 IR10 55.11897 159.953160 265.381 IR10 55.119897 159.953160 265.381 IR11 IR11 1811 1811 1811 IR17 56.178473 160.407352 1311.256 IR18 56.200050 160.593600 335.08 south IR19 56.174108 160.752815 1062.377 IR2 55.785599 160.232393 1062.506 IR20 56.10329 160.82765	Label	Ref Lat	Ref Lon	Ref Ele	Location of ref
B03 56.206812 160.492630 1287.959 B04 56.222923 160.687482 1133.844 B05 56.115524 160.753091 1373.966 B06 56.055136 160.679112 1508.101 south B07 55.985612 160.678024 1266.205 181 south B09 56.190458 160.678024 1266.205 181 55.718206 160.304863 1163.385 181 IR1 55.718206 160.304863 1163.385 181 <	B01	56.005256	160.331637	1535.017	
B04 56.22923 160.687482 1133.844 B05 56.115524 160.753091 1373.966 B06 56.055136 160.766400 1542.63 B07 55.985612 160.679112 1508.101 B08 55.933209 160.605780 1438.499 B09 56.190458 160.678024 1266.205 IR1 55.718206 160.304863 1163.385 IR10 55.119897 159.953160 265.381 IR11 IR11 IR11 IR11 IR15 55.688044 160.699798 771.288 IR16 55.651297 160.502734 427.532 south IR17 56.178473 160.407352 1311.256 IR18 56.200050 160.593600 1353.08 south IR19 56.174108 160.752815 1062.377 IR2 55.785599 160.232393 1062.506 IR3 55.857529 160.235245 985.36 IR5 56.031230 160.24418	B02	56.146097	160.332212	1346.875	
B04 56.22923 160.687482 1133.844 B05 56.115524 160.753091 1373.966 B06 56.055136 160.766400 1542.63 B07 55.985612 160.679112 1508.101 B08 55.933209 160.605780 1438.499 B09 56.190458 160.678024 1266.205 IR1 55.718206 160.304863 1163.385 IR10 55.119897 159.953160 265.381 IR11 IR11 IR11 IR11 IR15 55.688044 160.699798 771.288 IR16 55.651297 160.502734 427.532 south IR17 56.178473 160.407352 1311.256 IR18 56.200050 160.593600 1353.08 south IR19 56.174108 160.752815 1062.377 IR2 55.785599 160.232393 1062.506 IR3 55.857529 160.235245 985.36 IR5 56.031230 160.24418					
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IR1					
IR10	1				
IR11	1				
IR12 IR13 IR14 IR15		55.119897	159.953160	265.381	
IR13 IR14 IR15					
IR14	IR12				
IR15	IR13				
IR16	IR14				
IR17 56.178473 160.407352 1311.256 IR18 56.200050 160.593600 1353.08 south IR19 56.174108 160.752815 1062.377 IR2 55.785599 160.232393 1062.506 IR20 56.100329 160.827657 935.049 IR3 55.857529 160.225437 1111.721 south IR4 55.957850 160.236245 985.36 IR5 56.031230 160.244186 973.647 IR6 56.111965 160.269102 1314.898 IR7 55.347778 160.583785 1462.549 IR8 55.231249 160.080119 506.262 IR9 55.311622 159.864097 1089.672 OL1 55.877994 159.357963 145.438 OL2 55.888915 159.543573 62.373 OL3 55.438798 159.677199 83.452 OL4 55.549435 159.454161 147.426 OL5 55.292021 159.565895 112.317 OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.449858 160.257716 155.443 OR22 55.468822 159.857553 102.602 OR23 55.468822 159.87553 102.602 OR23 55.66506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	IR15	55.688044	160.699798	771.288	
IR17 56.178473 160.407352 1311.256 IR18 56.200050 160.593600 1353.08 south IR19 56.174108 160.752815 1062.377 IR2 55.785599 160.232393 1062.506 IR20 56.100329 160.827657 935.049 IR3 55.857529 160.225437 1111.721 south IR4 55.957850 160.236245 985.36 IR5 56.031230 160.244186 973.647 IR6 56.111965 160.269102 1314.898 IR7 55.347778 160.583785 1462.549 IR8 55.231249 160.080119 506.262 IR9 55.311622 159.864097 1089.672 OL1 55.877994 159.357963 145.438 OL2 55.888915 159.543573 62.373 OL3 55.438798 159.677199 83.452 OL4 55.549435 159.454161 147.426 OL5 55.292021 159.565895 112.317 OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.449858 160.257716 155.443 OR22 55.468822 159.857553 102.602 OR23 55.468822 159.87553 102.602 OR23 55.66506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	IR16	55.651297	160.502734	427.532	south
IR18	IR17		160.407352		
IR19 56.174108 160.752815 1062.377 IR2					south
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IR20 56.100329 160.827657 935.049 IR3 55.857529 160.225437 1111.721 south IR4 55.957850 160.236245 985.36 IR5 56.031230 160.244186 973.647 IR6 56.111965 160.269102 1314.898 IR7 55.347778 160.583785 1462.549 IR8 55.231249 160.080119 506.262 IR9 55.311622 159.864097 1089.672 OL1 55.877994 159.357963 145.438 OL2 55.888915 159.543573 62.373 OL3 55.438798 159.543573 62.373 OL3 55.438798 159.543573 62.373 OL4 55.549435 159.454161 147.426 OL5 55.292021 159.565895 112.317 OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.965136 159.804443 49.919 south OR10 56.050928 161.213353 44.678 OR11 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR15 OR15 55.543740 160.695138 882.982 south OR19 55.456038 160.447563 765.791 south OR20 55.456038 160.447563 765.791 south OR20 55.456882 159.807553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038					
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IR5					south
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OL4 55.549435 159.454161 147.426 OL5 55.292021 159.565895 112.317 OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.965136 159.804443 49.919 south OR10 56.050928 161.213353 44.678 OR11 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR18 55.485047 160.583280 935.535 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.498822 159.857553	OL2	55.888915	159.543573	62.373	
OL5 55.292021 159.565895 112.317 OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.965136 159.804443 49.919 south OR10 56.050928 161.213353 44.678 OR11 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR18 55.485047 160.583280 935.535 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.468822 159.857553 102.602 OR22 55.468822 159.85755	OL3	55.438798	159.677199	83.452	
OL6 55.301392 160.278550 1051.971 OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.965136 159.804443 49.919 south OR10 56.050928 161.213353 44.678 OR11 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR18 55.485047 160.583280 935.535 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.7806	OL4	55.549435	159.454161	147.426	
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OL7 56.156949 161.508697 891.982 OL8 OL9 OR1 55.965136 159.804443 49.919 south OR10 56.050928 161.213353 44.678 OR11 55.952916 161.209056 60.906 OR12 55.876351 161.129859 109.252 OR13 55.786396 161.100933 1119.887 OR14 55.717616 161.027518 755.295 OR15 OR16 55.594981 160.819311 996.67 OR17 55.543740 160.695138 882.982 south OR18 55.485047 160.583280 935.535 south OR19 55.456038 160.447563 765.791 south OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677544	1				
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OR17 55.543740 160.695138 882.982 south OR18 55.485047 160.583280 935.535 south OR19 55.456038 160.447563 765.791 south OR2 56.146316 159.980011 70.176 OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	OR15				
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OR19 55.456038 160.447563 765.791 south OR2 56.146316 159.980011 70.176 OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	OR17	55.543740	160.695138	882.982	south
OR2 56.146316 159.980011 70.176 OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	OR18	55.485047	160.583280	935.535	south
OR2 56.146316 159.980011 70.176 OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038	OR19	55.456038	160.447563	765.791	south
OR20 55.449858 160.257716 155.443 OR21 55.439206 160.039521 101.443 OR22 55.468822 159.857553 102.602 OR23 55.566506 159.780687 59.801 OR24 55.677039 159.787401 61.128 OR25 55.767544 159.729128 49.038					
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OR25 55.767544 159.729128 49.038	1				
	1				
	UK25	33.70/344			

Continued on next page

Table 2 – continued from previous page

Label	Ref Lat	Ref Lon	Ref Ele	Location of ref
OR26	55.861250	159.775498	64.444	
OR27	56.262674	160.216187	142.908	
OR28	56.322818	160.363902	88.111	
OR29				
OR3	56.221179	160.080074	75.527	
OR30				
OR31				
OR32				
OR4	55.954217	159.215638	308.103	
OR5	56.030655	159.053095	282.853	
OR6	56.025697	158.843609	396.165	
OR7	55.784446	159.398817	93.715	
OR8	55.673629	159.450295	56.789	
OR9	55.601158	159.620791	61.278	
SV1	55.640260	160.244564	686.86	
SV10	56.022206	160.725875	1777.906	
SV11	55.190398	159.767129	155.78	
SV12				
SV13	56.099382	160.631512	2450.758	
SV2	55.754591	160.041935	208.452	
SV3	55.557840	160.084959	117.4	
SV4	55.889103	159.950441	173.729	
SV5	56.011158	160.037244	234.825	
SV6	55.795164	160.344300	2103.548	
SV7	55.792115	160.534561	1305.958	south
SV8	55.899784	160.490660	1426.31	
SV9	55.995680	160.430187	1834.615	

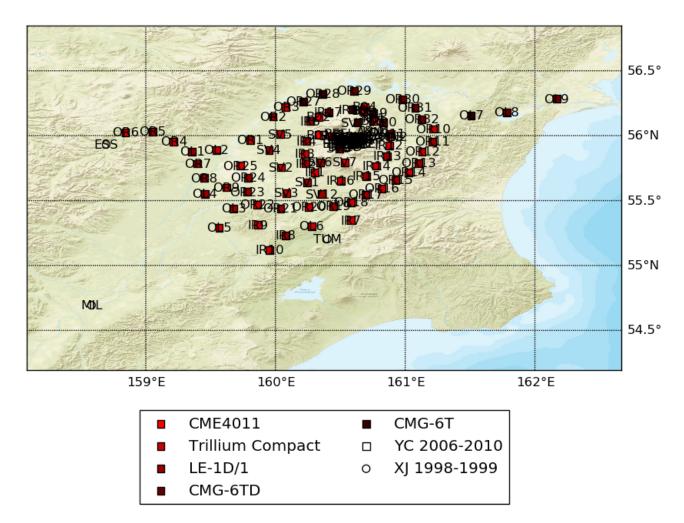


Fig. 1: Station distribution in experiment (red symbols). If present, white-filled symbols show permanent stations and other temporary experiments archived at EIDA or IRIS-DMC, whose activity period overlapped at least partially with the time of the experiment. If present, open symbols show station sites which were no longer active at the time of the experiment, e.g. prior temporary experiments.

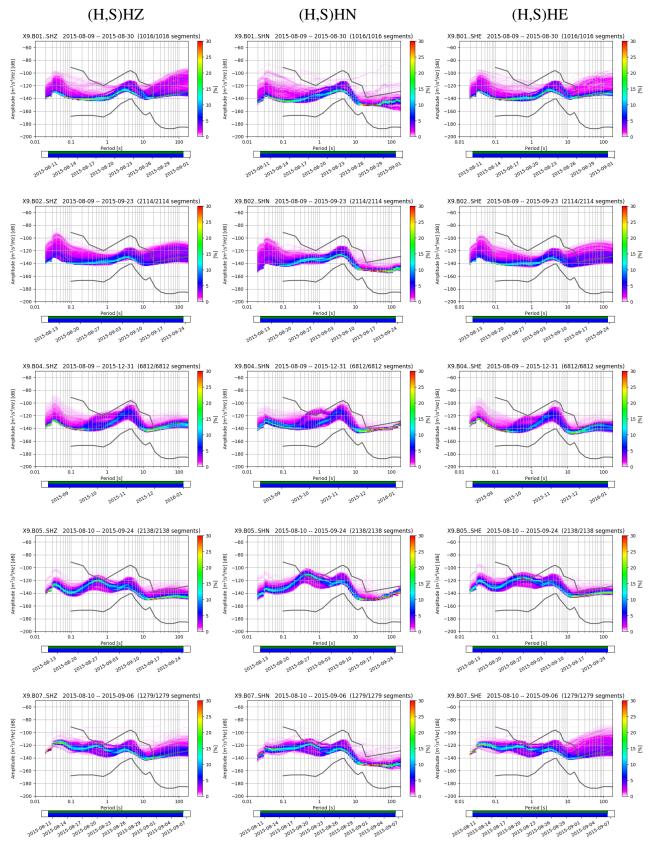


Fig. 2 – continued on next page

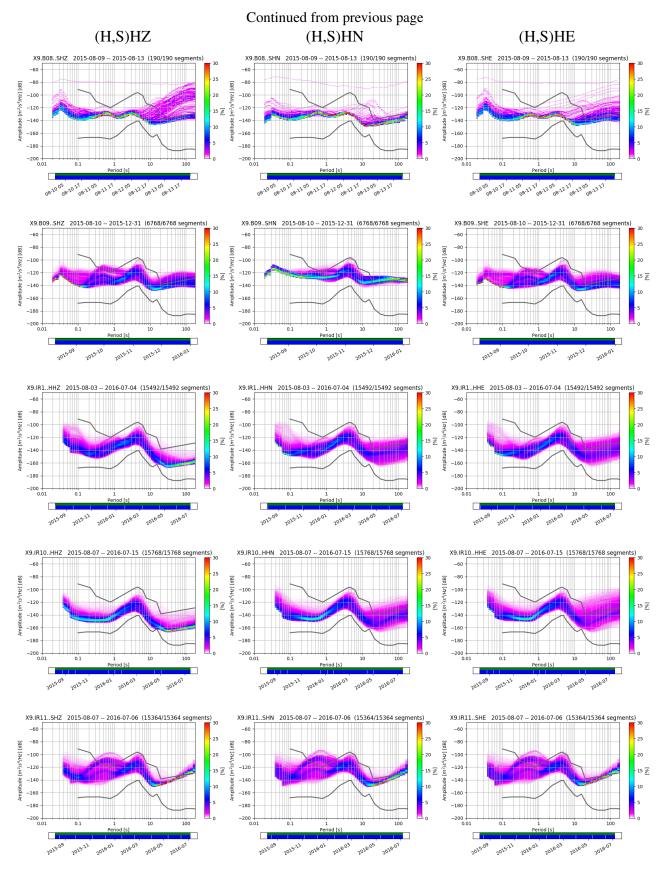


Fig. 2 – continued on next page

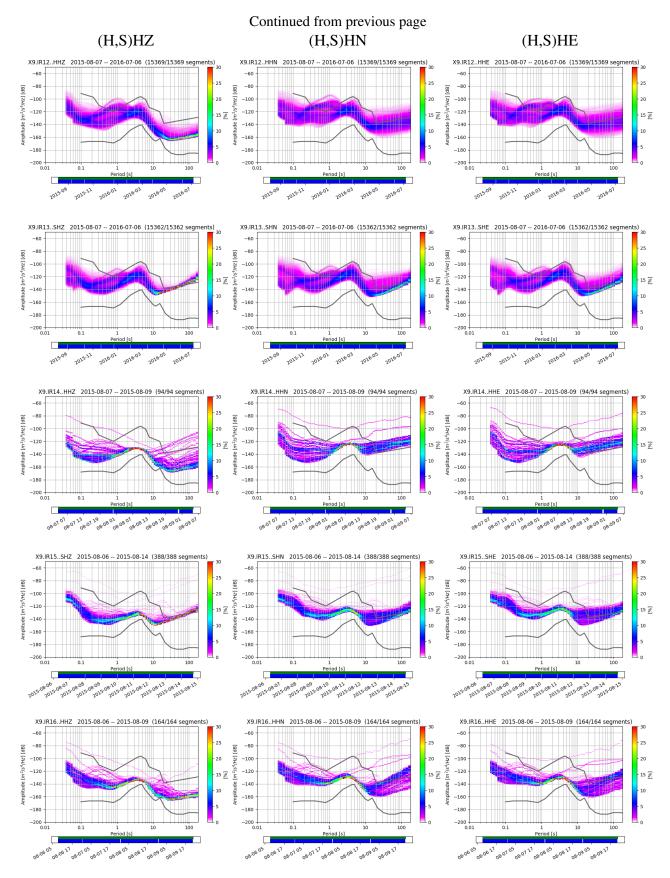


Fig. 2 – continued on next page

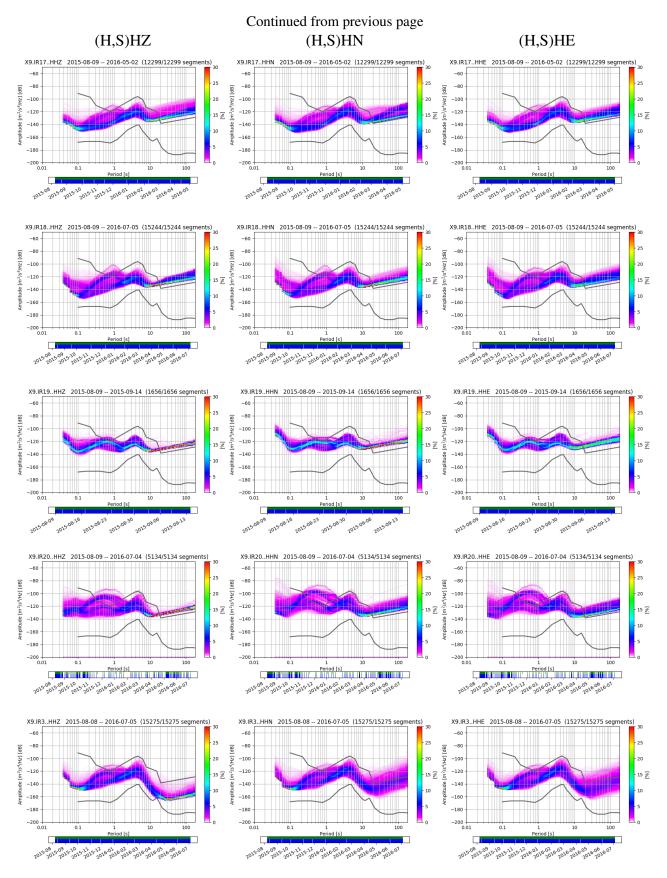


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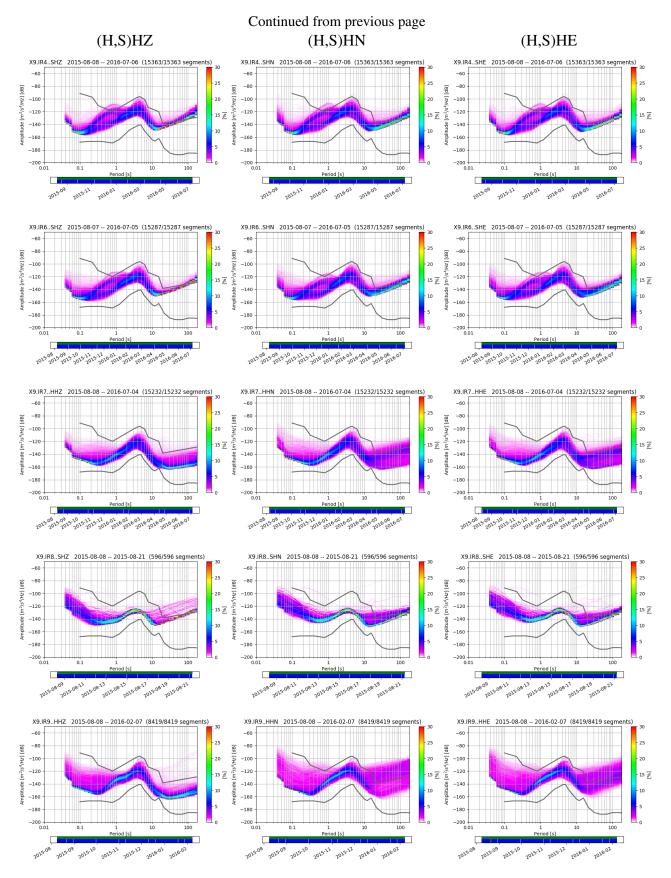


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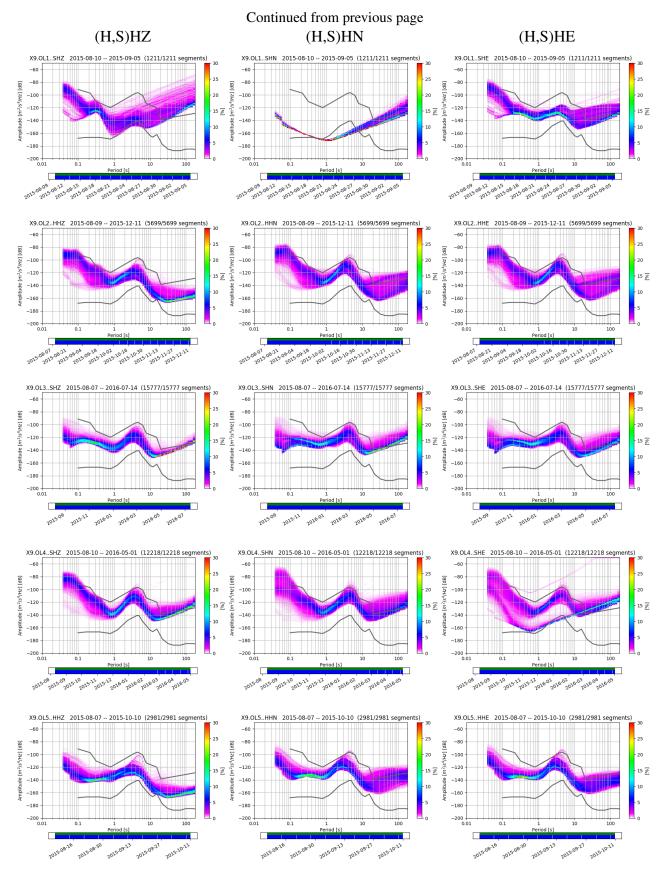


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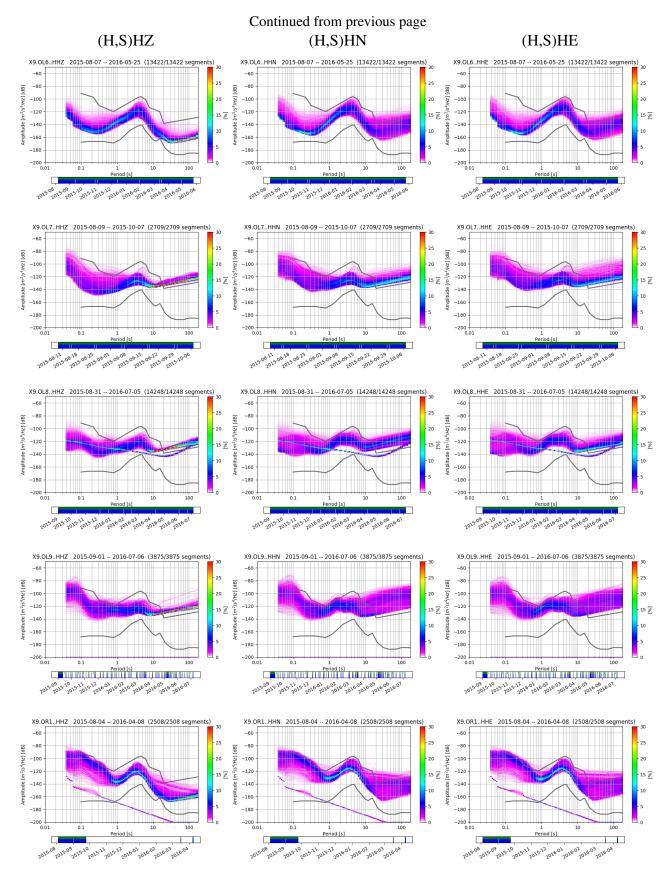


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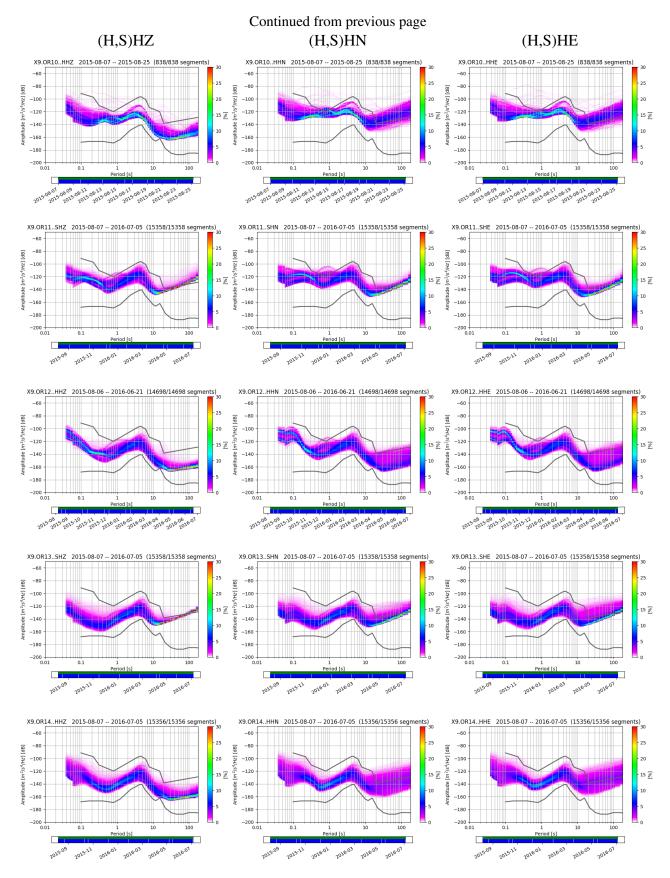


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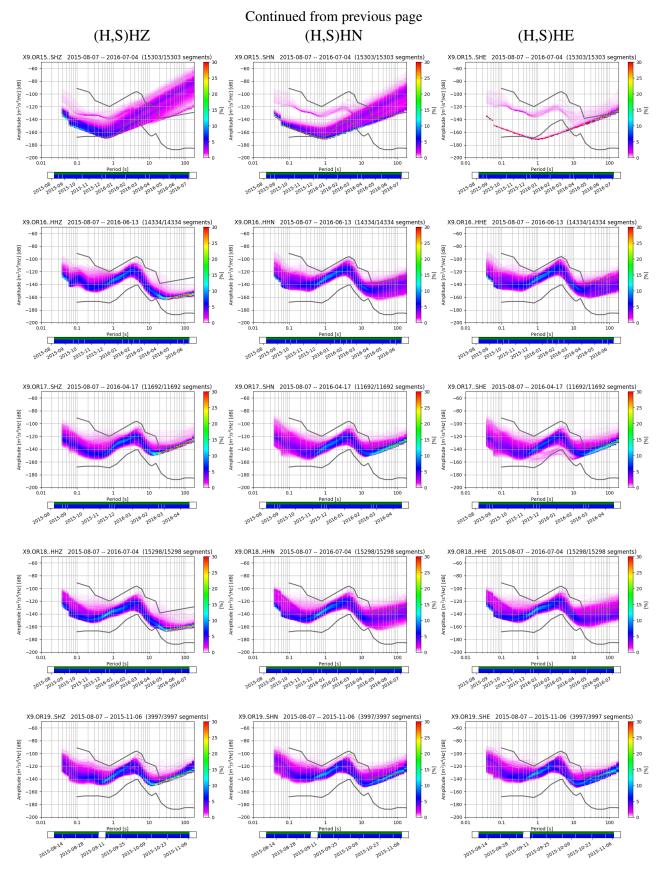


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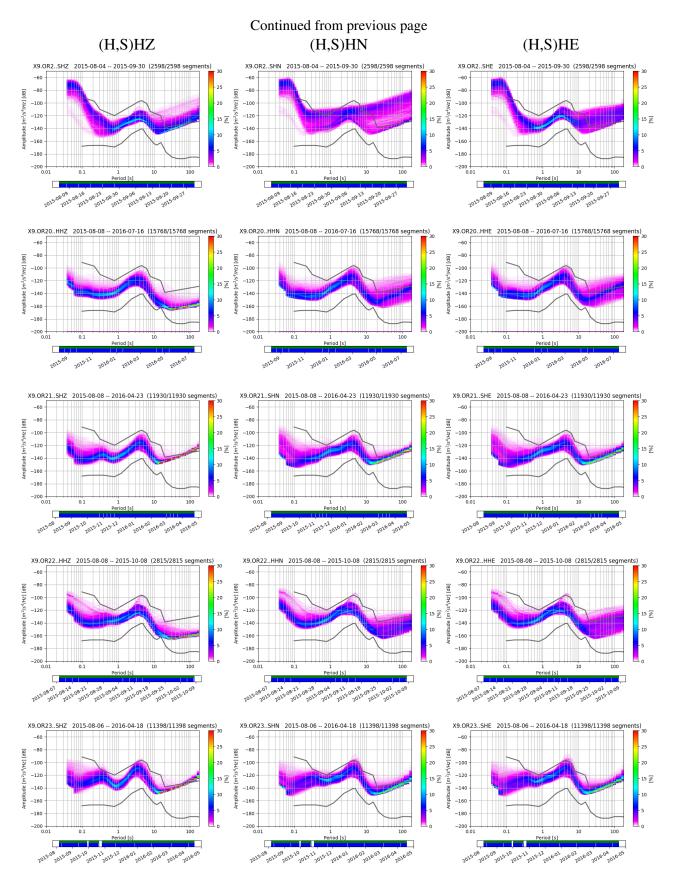


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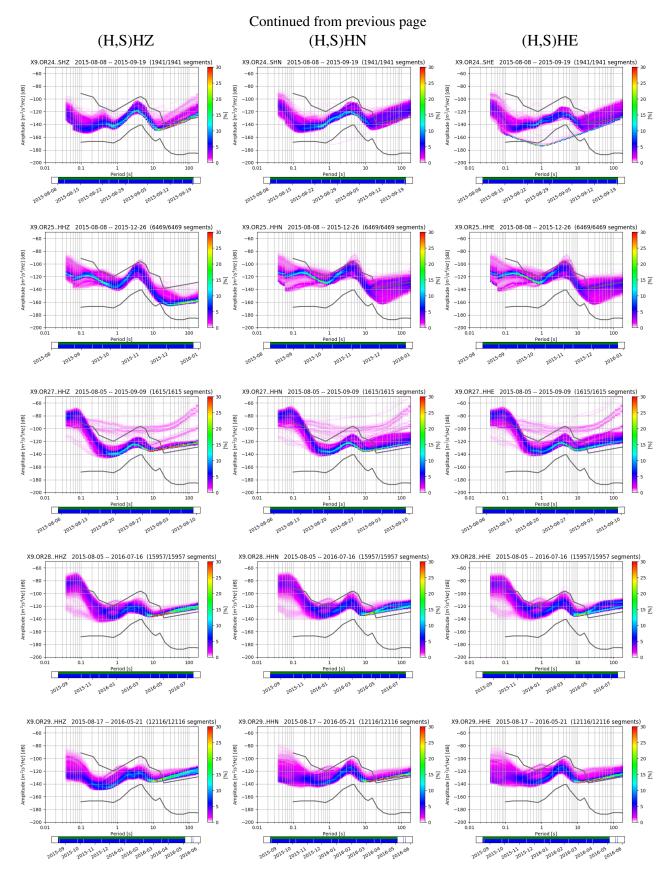


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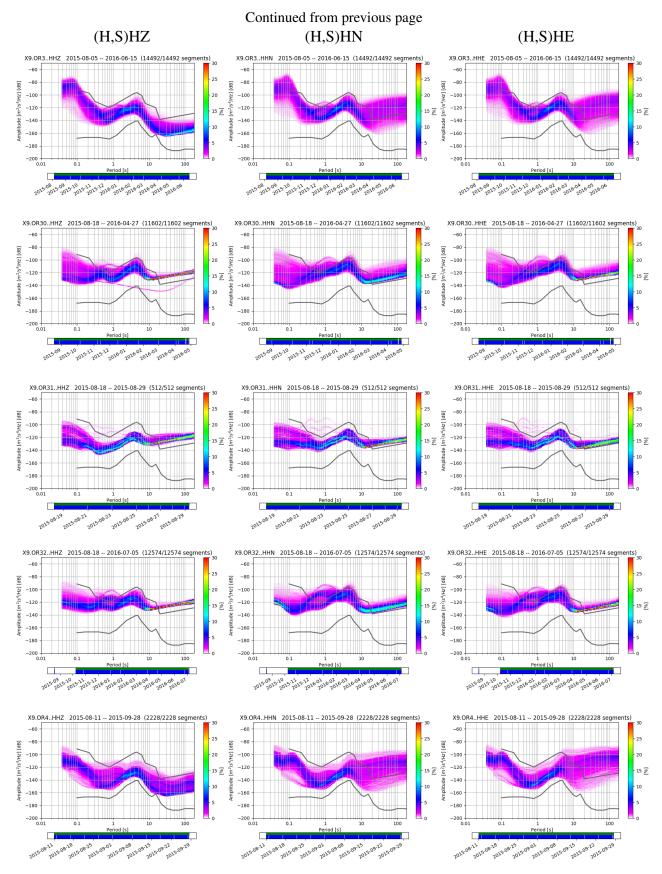


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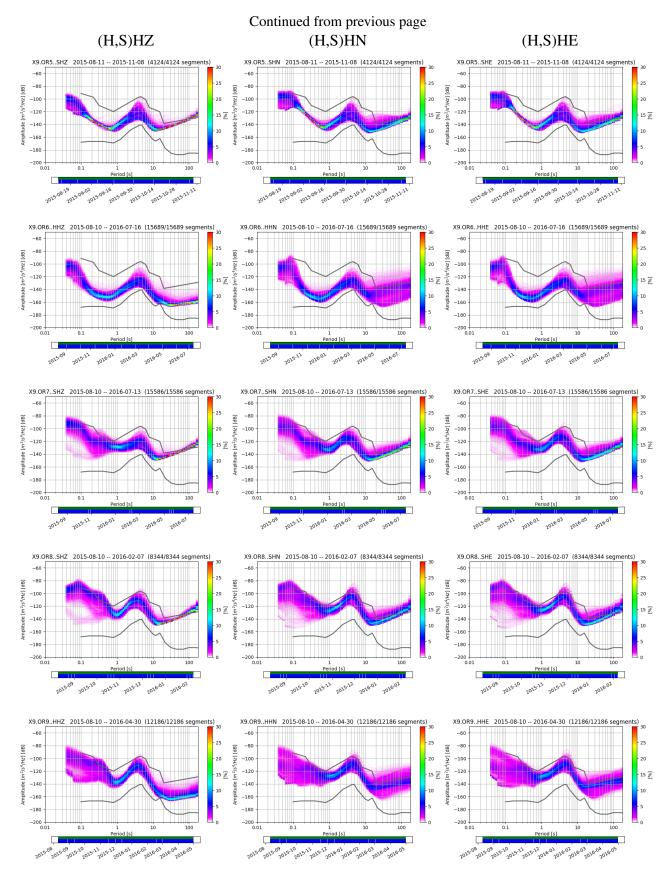


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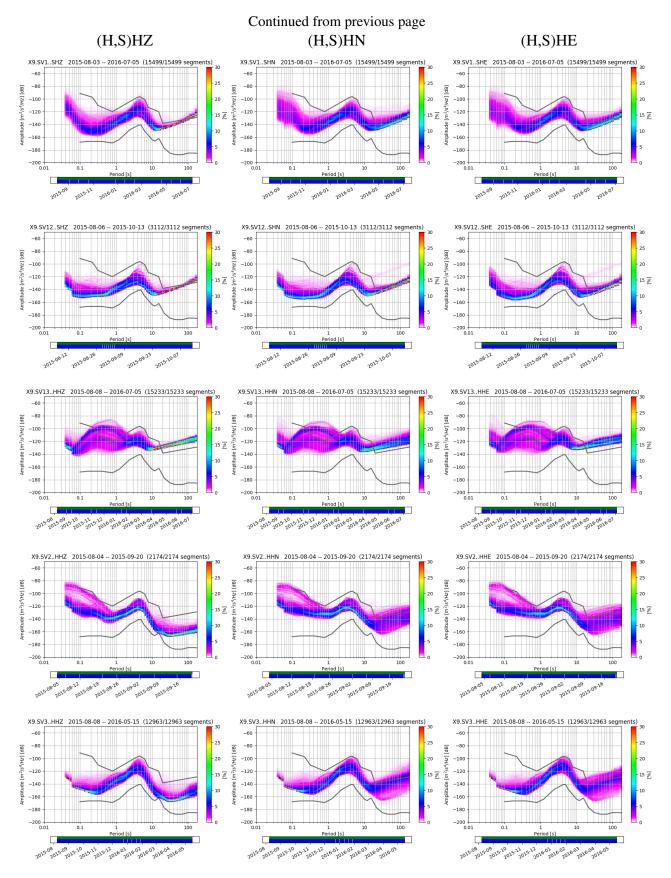


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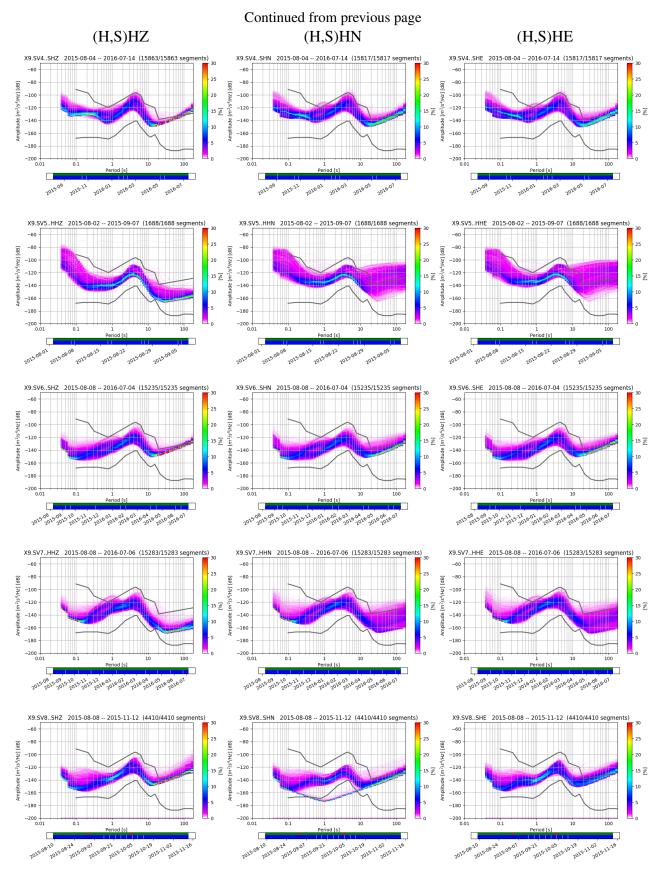


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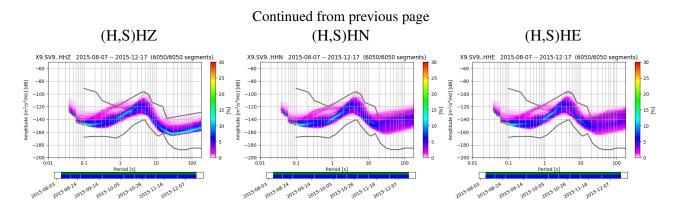


Fig. 2: Noise probability density functions for all stations for database holdings.

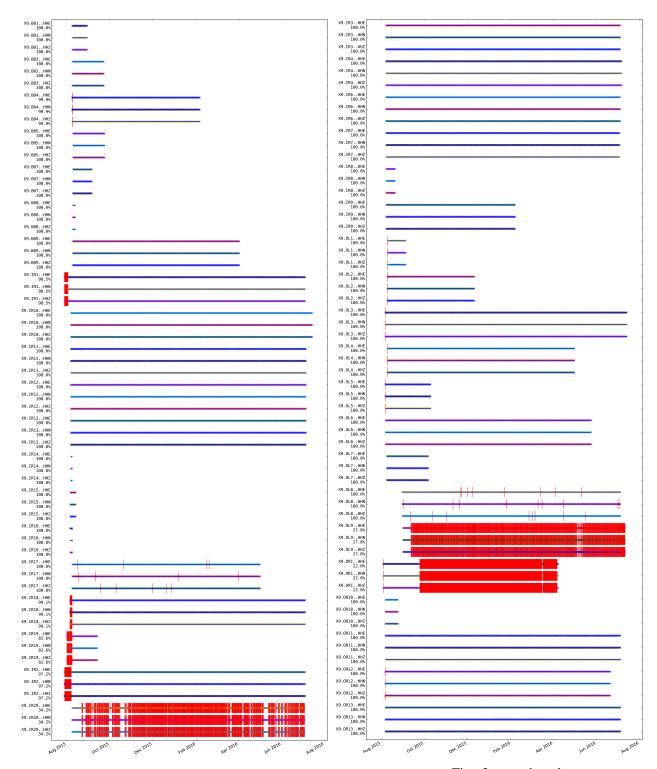


Fig. 3 – continued on next page



Fig. 3: Overview of uptimes of all stations generated with 'obspy-scan'.

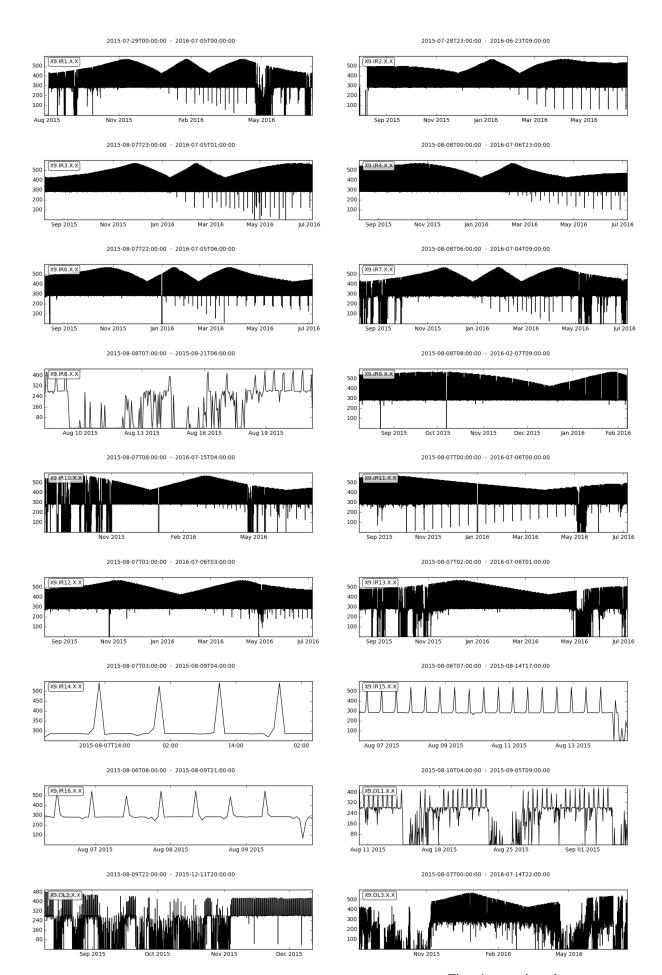


Fig. 4 – continued on next page

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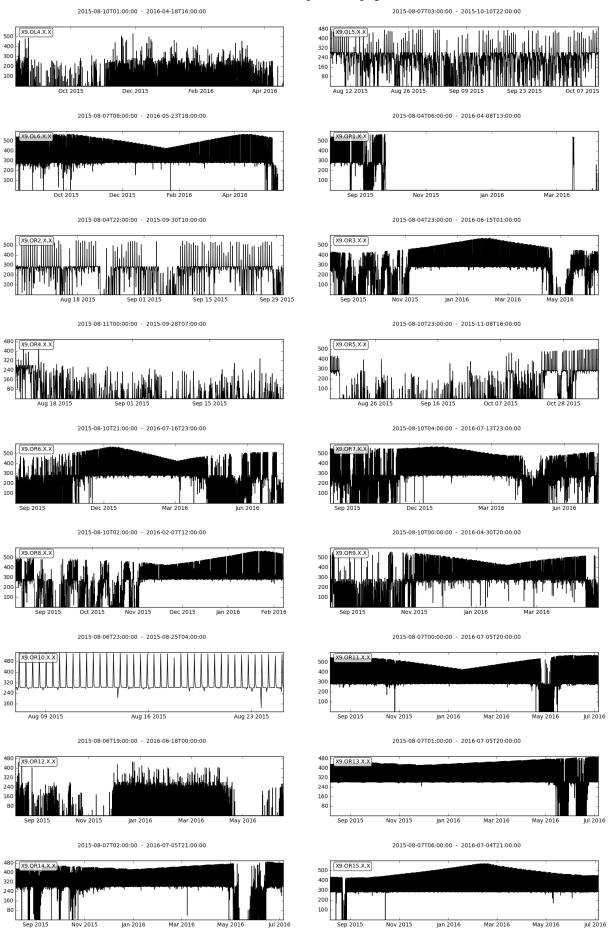


Fig. 4 – continued on next page

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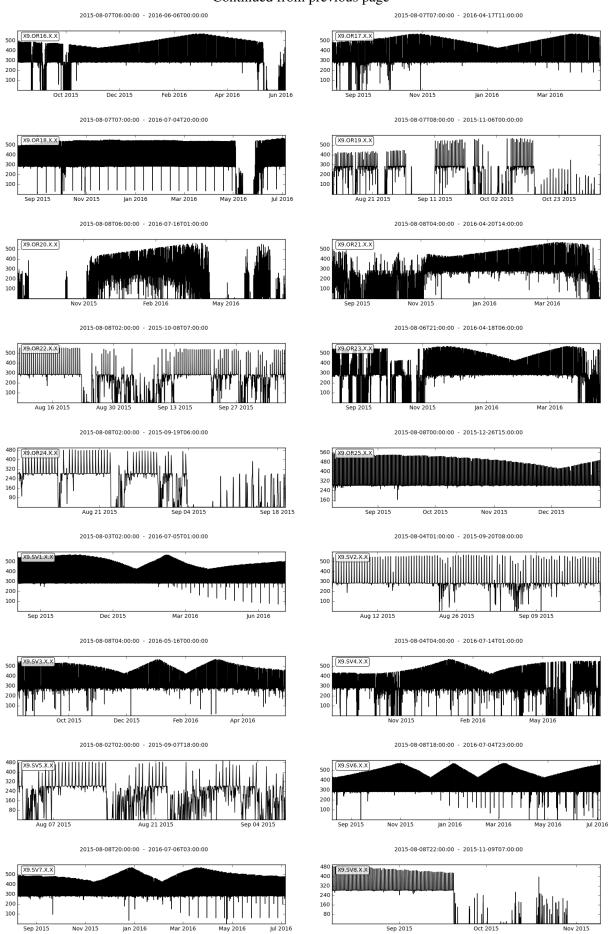
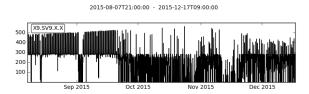


Fig. 4 – continued on next page

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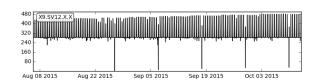


Fig. 4: Number of daily GPS logs for all Cube digitizers.

