

**Advanced Multicomponent
Seismic Software**

**Analysis of seismic data recorded in June 2026
by network C8 (stations SV1S-SV5S)
at Aquistore test site**

Report AQ-2026-06-IM

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1. Station performance

Station performance for June 2026 is summarized in Figure 1, and their state-of-health parameters are shown in Figure 2. Stations SV1S to SV4S were online in June, and SV5S was returned online at the beginning of July.

Power-supply voltages looked generally good and station operation was practically uninterrupted. For more detailed observations, refer to the reports from May and April.

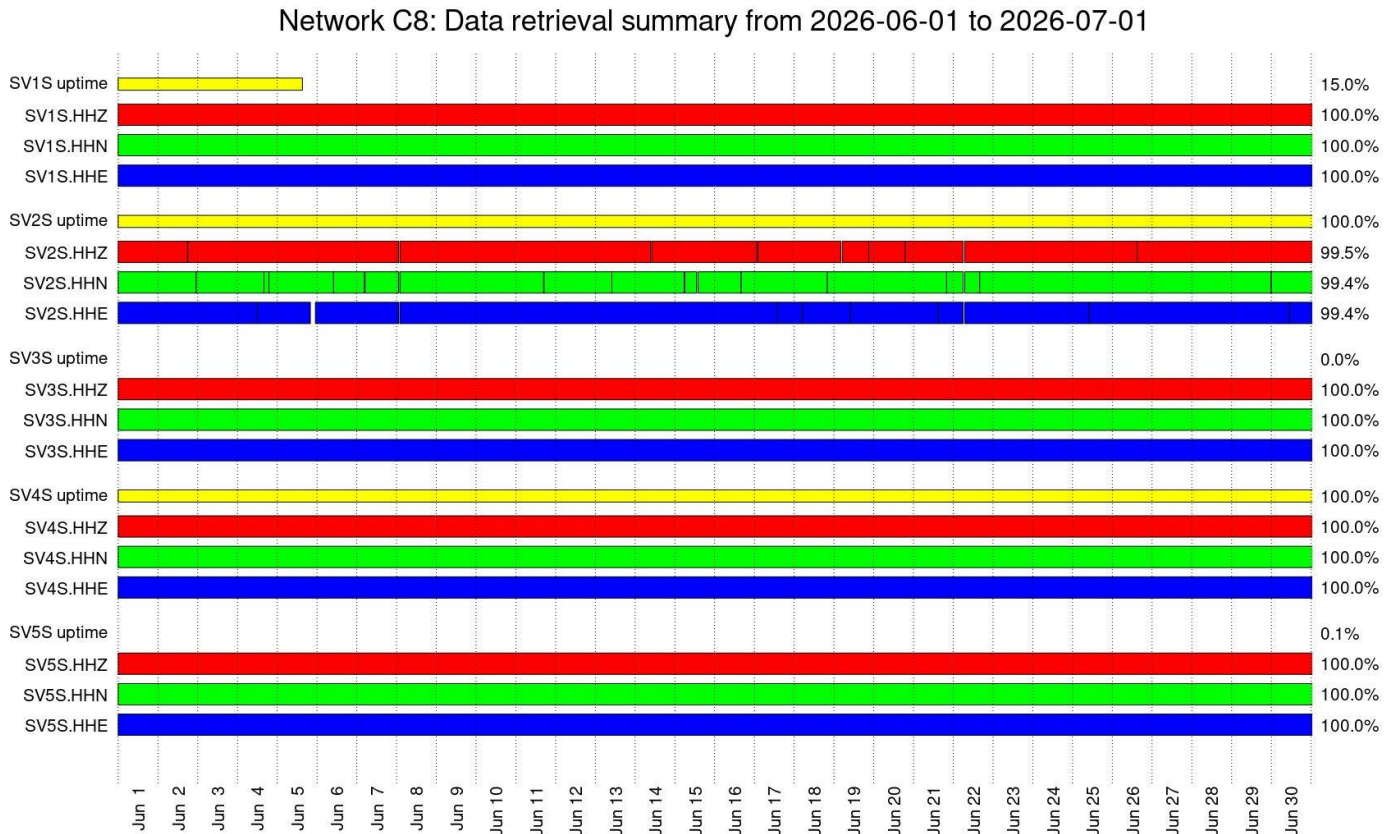


Figure 1. Retrieved data intervals for all channels (red, green, and blue bars) and uptimes (yellow). Total percentages of measured uptime and data retrieval are shown on the right. Station SV5S was offline in June 2026 and network to SV1S and SV3S appeared to show outages (gaps in yellow bars). The seismic records were retrieved at the beginning of July.

State of health for station C8.SV1S (NE01) from 2026-06-01 to 2026-07-01

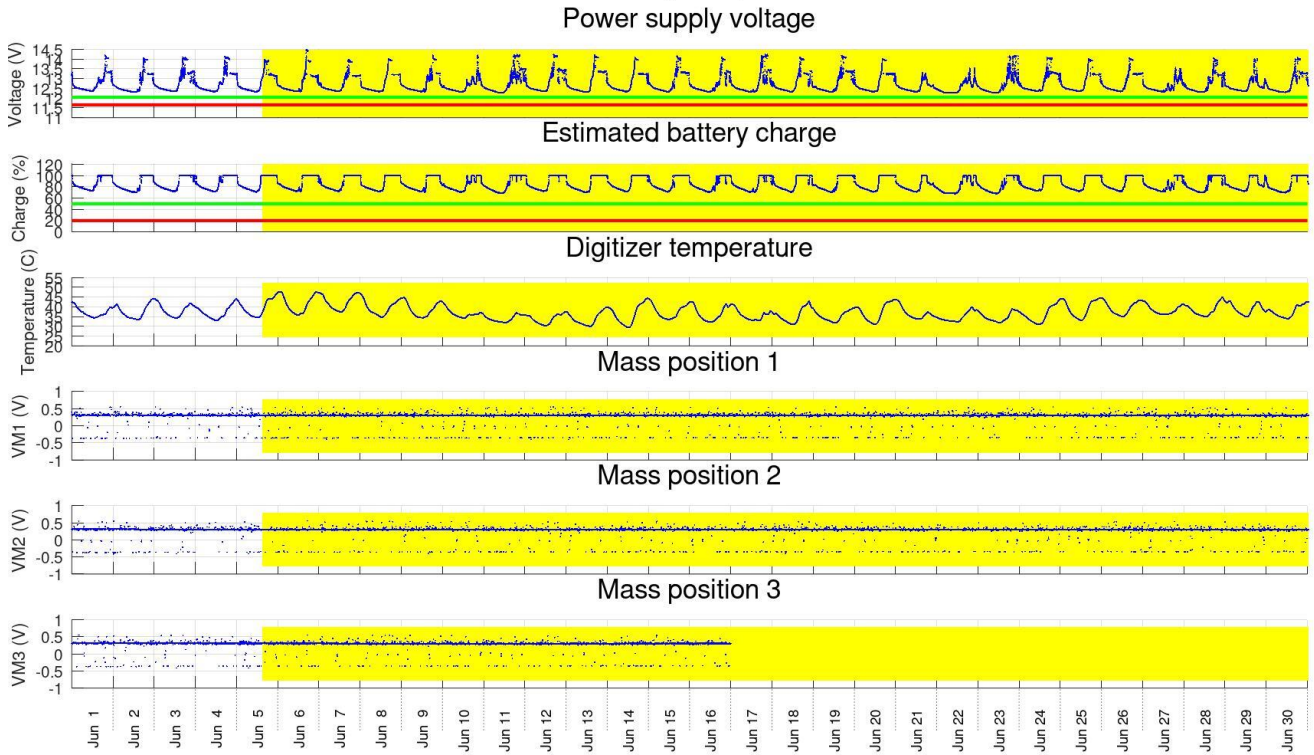


Figure 2. State of health parameters for each station (SV1S here). Image headings: power supply voltage, estimated battery charge levels, temperature on board, voltages measuring mass positions.

State of health for station C8.SV2S (SW01) from 2026-06-01 to 2026-07-01

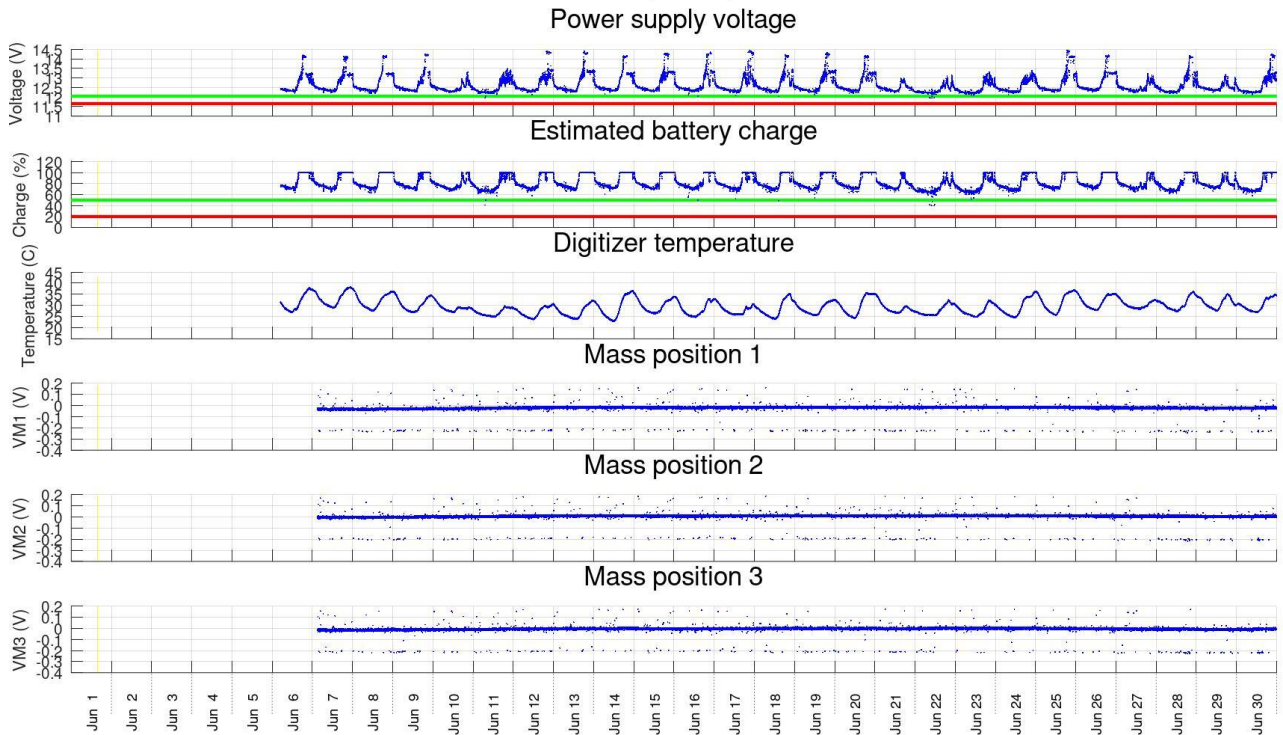


Figure 2, continued, station SV2S. SOH data before June 7 were lost during manual downloading.

State of health for station C8.SV3S (NW01) from 2026-06-01 to 2026-07-01

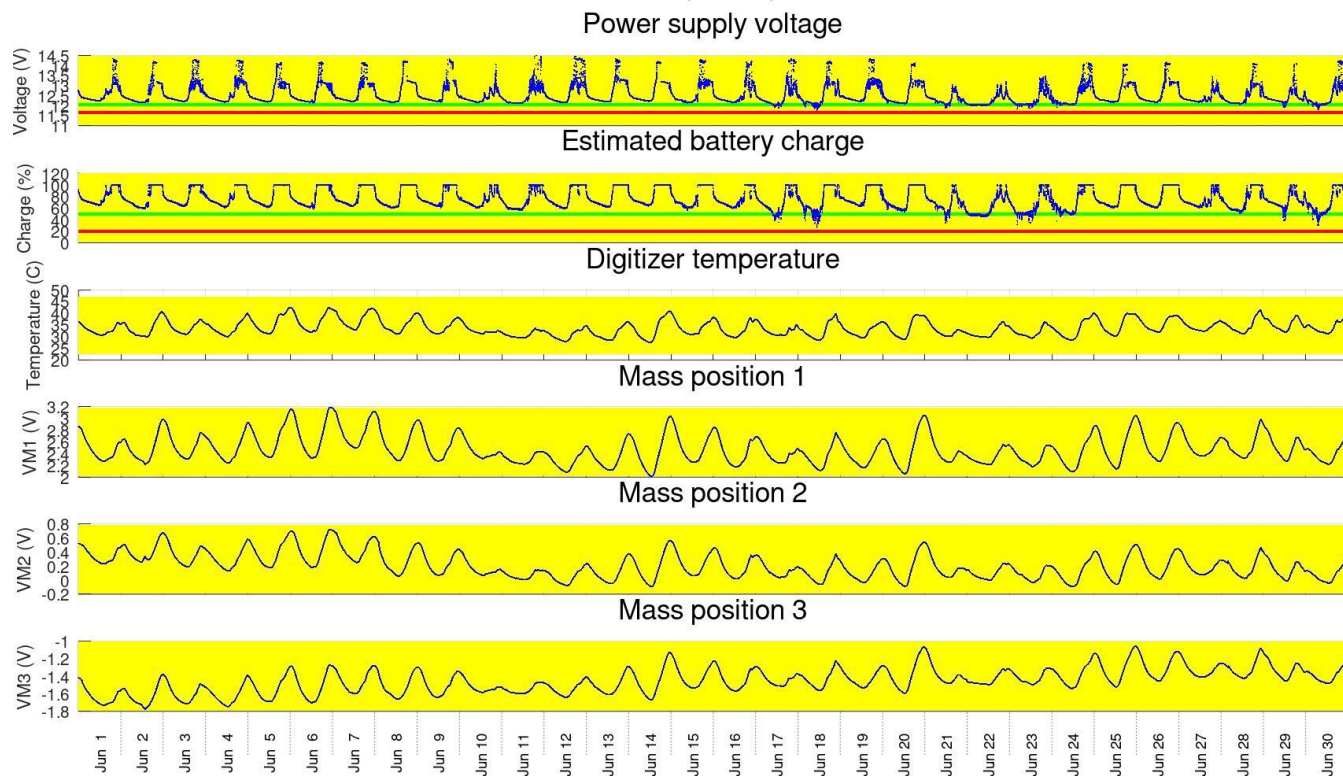


Figure 2, continued, station SV3S.

State of health for station C8.SV4S (SE01) from 2026-06-01 to 2026-07-01

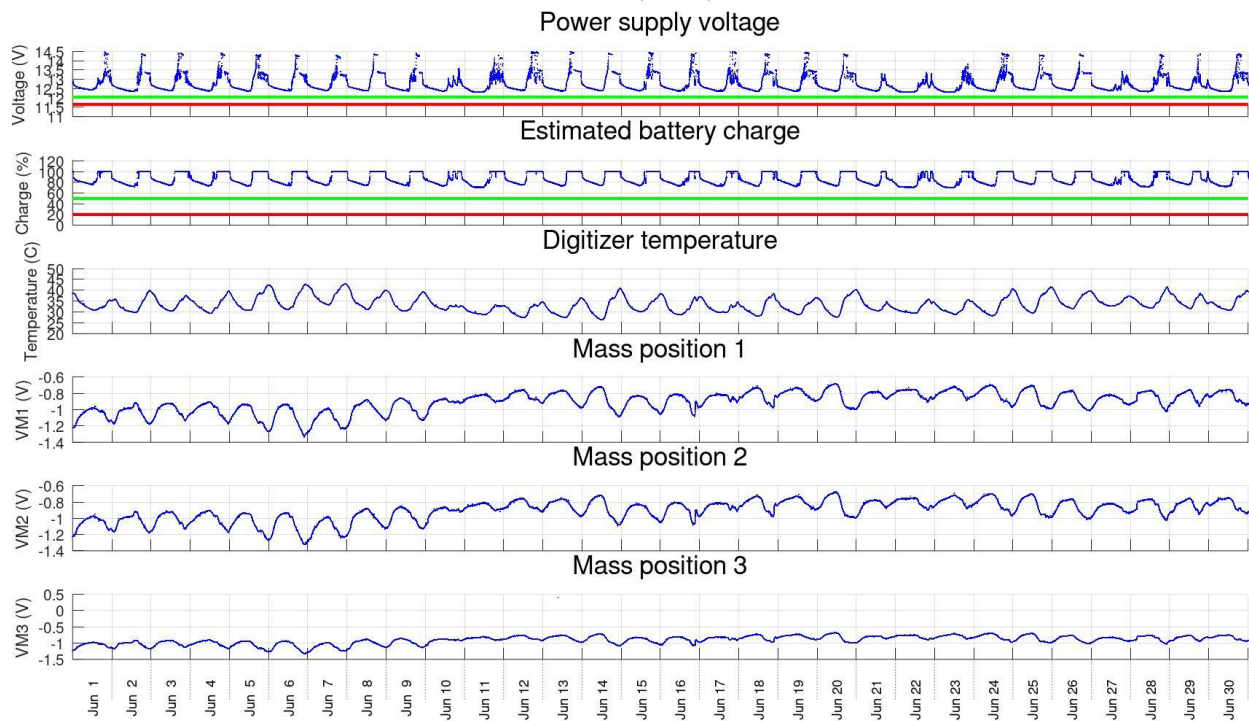


Figure 2, continued, station SV4S.

State of health for station C8.SV5S (NE02) from 2026-06-01 to 2026-07-01

Power supply voltage

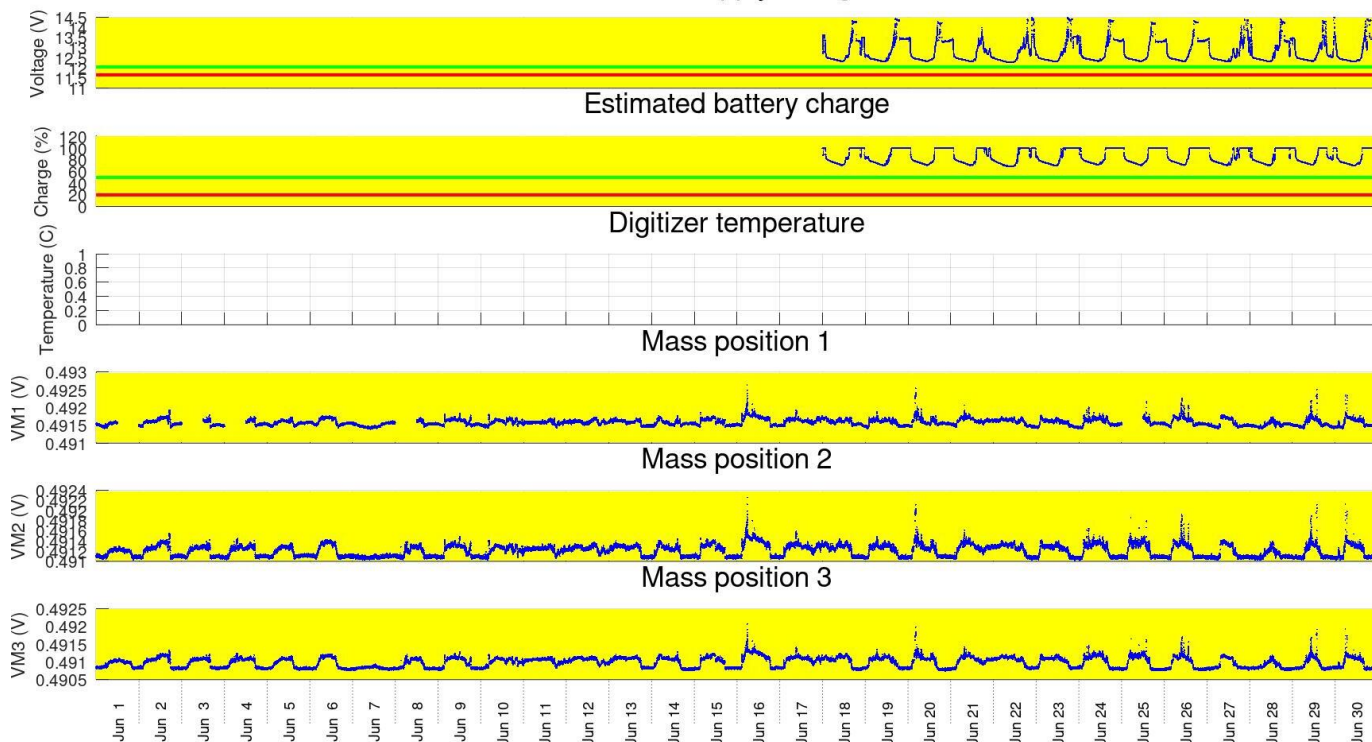


Figure 2, continued, station SV5S. SOH data prior to June 18 was lost due to the absence of Internet connection to this station (the station only keeps about two weeks of SOH data).

Data recovery

Data recovery from all stations was nearly 100% (Figures 1 and 2). For the time intervals during which station SV5S and likely SV1S and SV3S were offline, the data were retrieved automatically at the beginning of July.

2. Data quality

Figure 3 shows two measures of data quality evaluated for each channel:

- 1) Numbers of spikes and tears (sharp changes of DC level) within 1-hour time intervals;
- 2) 1-hour interval root-mean square (RMS) average amplitudes in each channel.

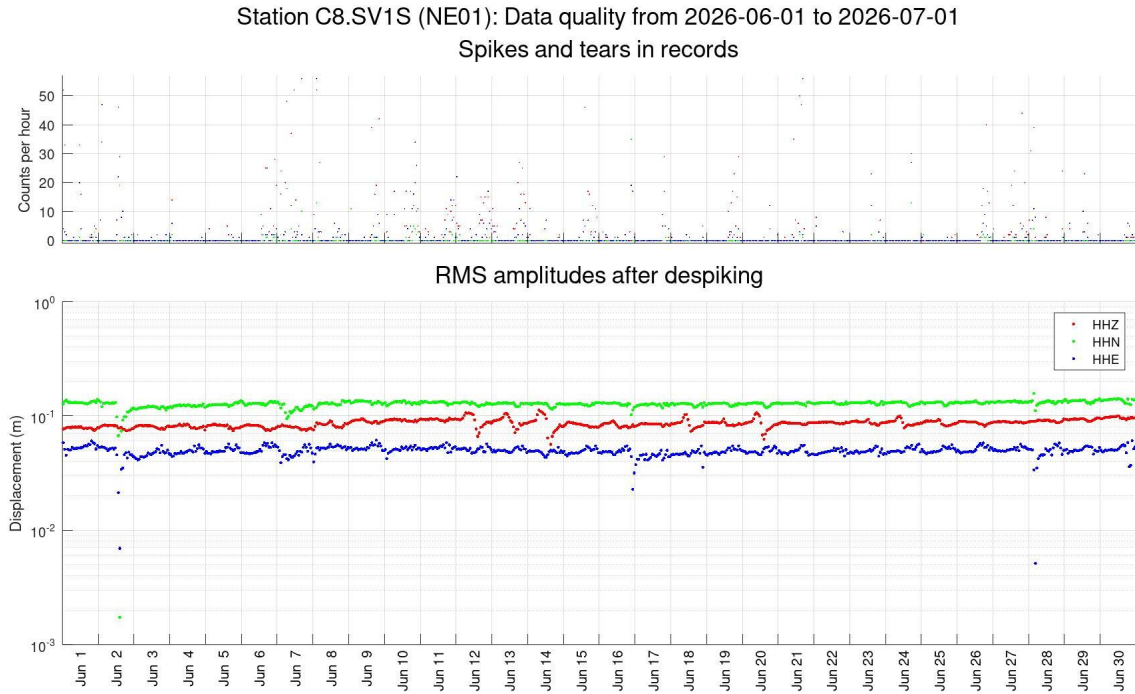


Figure 3. Measures of data quality in hour-long intervals. Station names and time intervals are indicated in plot headings (SV1S in this plot). Red, green, and blue colours correspond to channels HHZ, HHN, and HHE, respectively (as in Figure 1).

Top panels: Numbers of spikes and tears per hour auto-detected in data records.

Bottom panels: RMS ground displacements (meters).

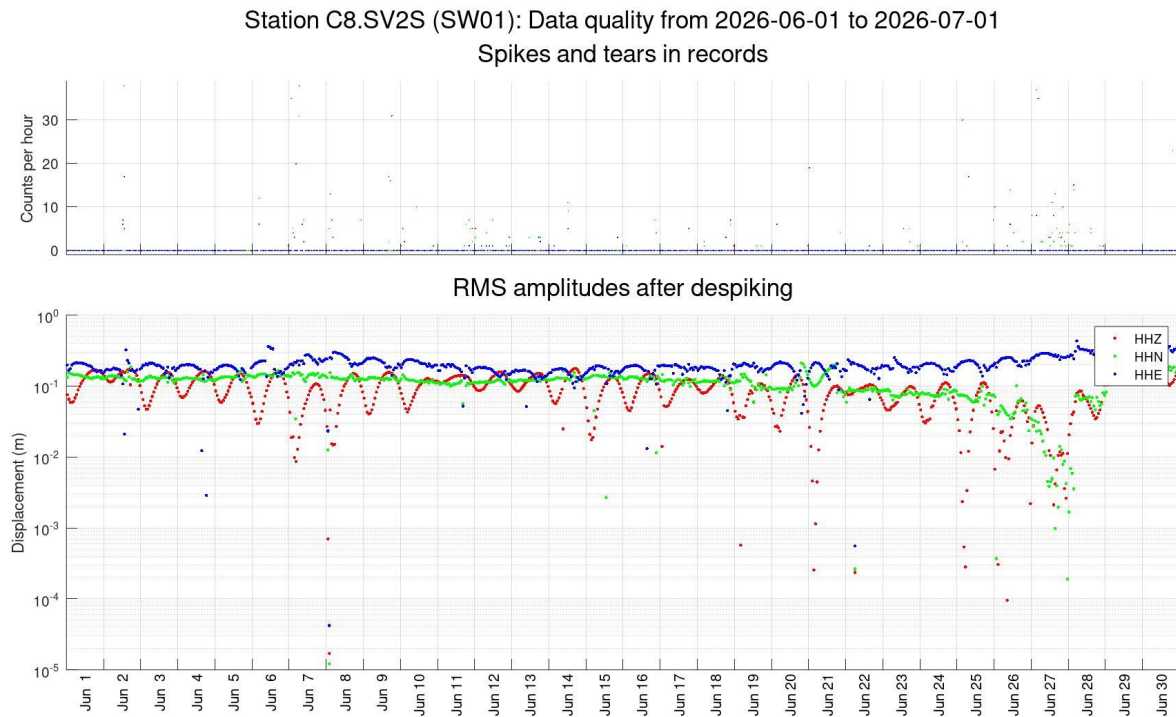


Figure 3, continued. Station SV2S.

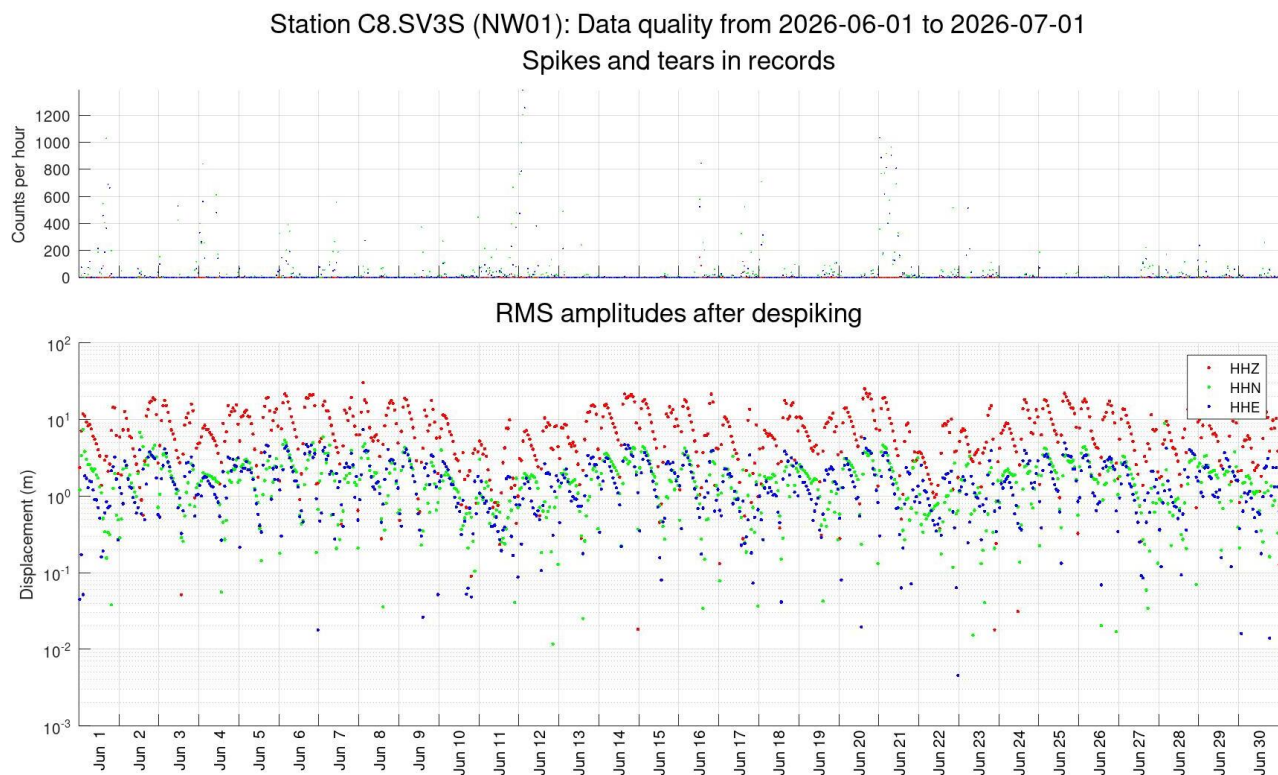


Figure 3, continued. Station SV3S. Note the large numbers of spikes, also seen in some waveform records below in this report.

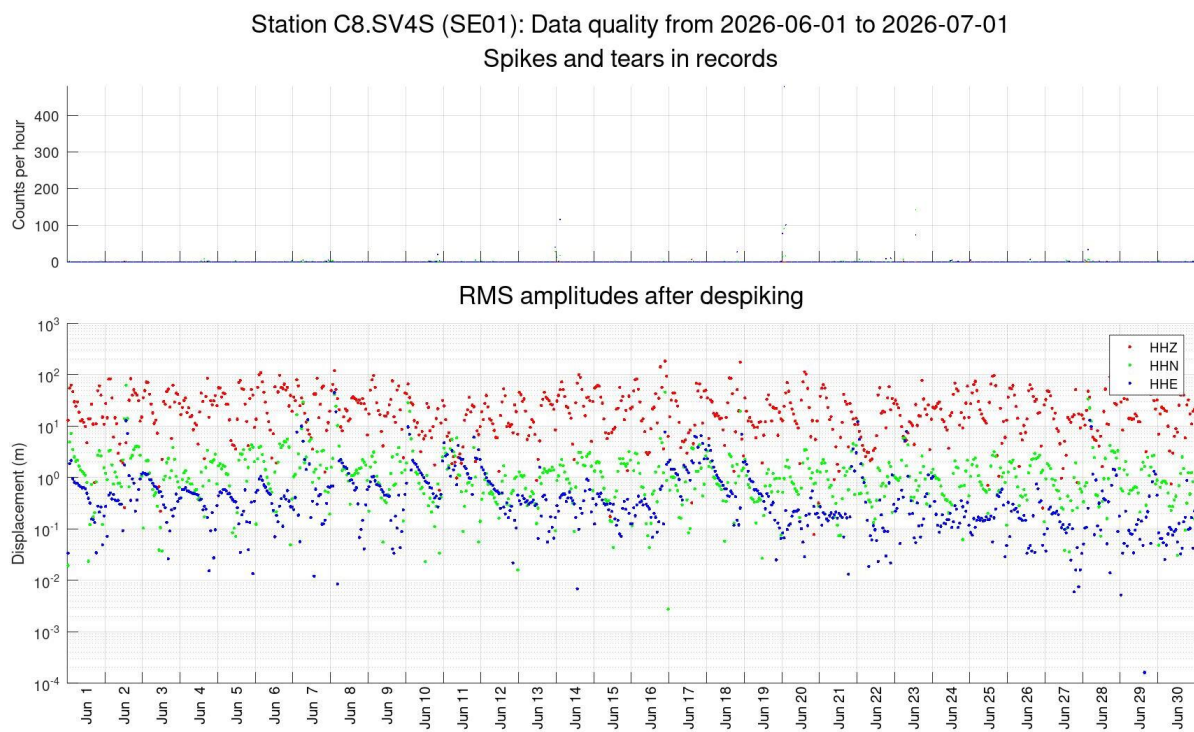
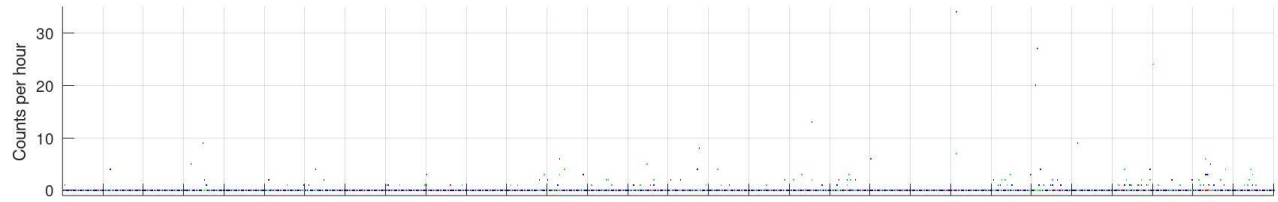


Figure 3, continued. Station SV4S. Also note significant number of spikes.

Station C8.SV5S (NE02): Data quality from 2026-06-01 to 2026-07-01

Spikes and tears in records



RMS amplitudes after despiking

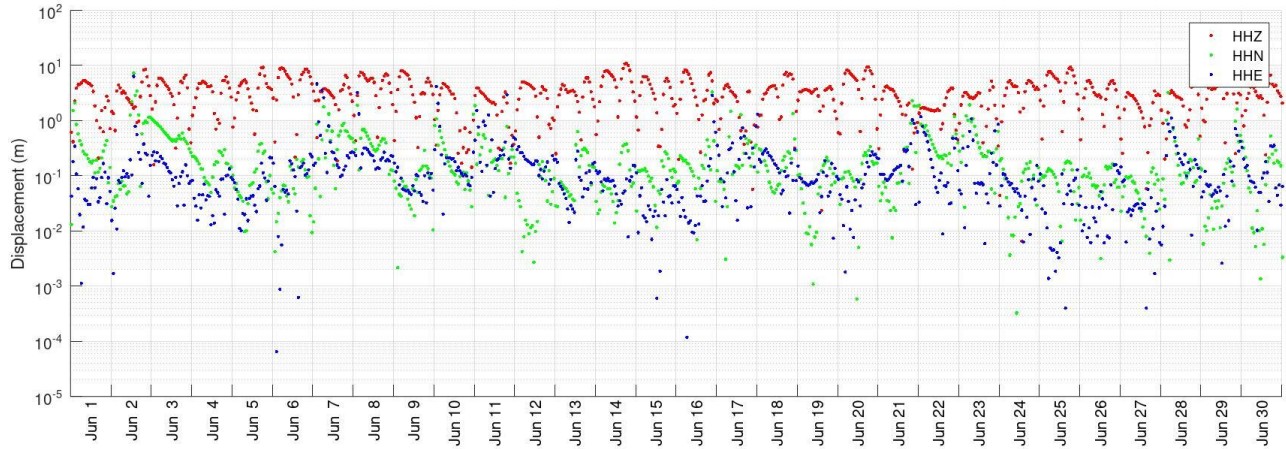


Figure 3, continued. Station SV5S.

3. Processing procedure and parameters

Processing procedure and parameters were the same as in previous reports.

4. Seismic event detection

The classification of seismic events used in these reports and numbers of events detected in June 2026 are shown in Table 2.

Table 2. Classification of seismic events and numbers of detections at Aquistore broadband seismic array

Event class code	Class name	Identification criteria	Number of detections in this report
1	Teleseismic	Hypocentral distance $D > 1000$ km, presence in catalogues	33
2	Regional	$100 < D < 1000$ km, presence in catalogues	4
3	Local	Approx. $4 < D < 100$ km	-----

3a	Possible mine blasts	Characteristic waveforms, amplitudes, back-azimuths east of Aquistore, D about 12-15 km	5
3b	Mining-related	Low frequencies, extended repeated wavetrains low arrival velocities related to surface waves	5 (selected from numerous occurrences)
4	Proximity (close local)	$D < 3\text{-}4$ km, deviation of array moveouts from plane-wave patterns, high frequency	-----
4a	Surface sources near array	Large travel-time moveouts, variable back-azimuths	5
4b	Target zone	Source at recognizable nonzero depth, small travel-time moveouts, high frequency	0

Automatic detections

The procedure of multichannel automatic detections is being revised and not shown in the present report.

Event bulletins

Earthquake data bulletins for the period of this report were obtained from NEIC (USGS) and NRCAN web services (Figure 5). Events larger than magnitude 2.5 were taken from USGS, and all available events were retrieved from NRCAN. Events located at regional distances or with magnitudes above the selected *magnitude* $\propto$ *distance*^{1.5} threshold (dashed green line in Figure 5) were reviewed interactively (next section).

Events from 2026-06-01 to 2026-07-01
7 regional
1976 teleseismic

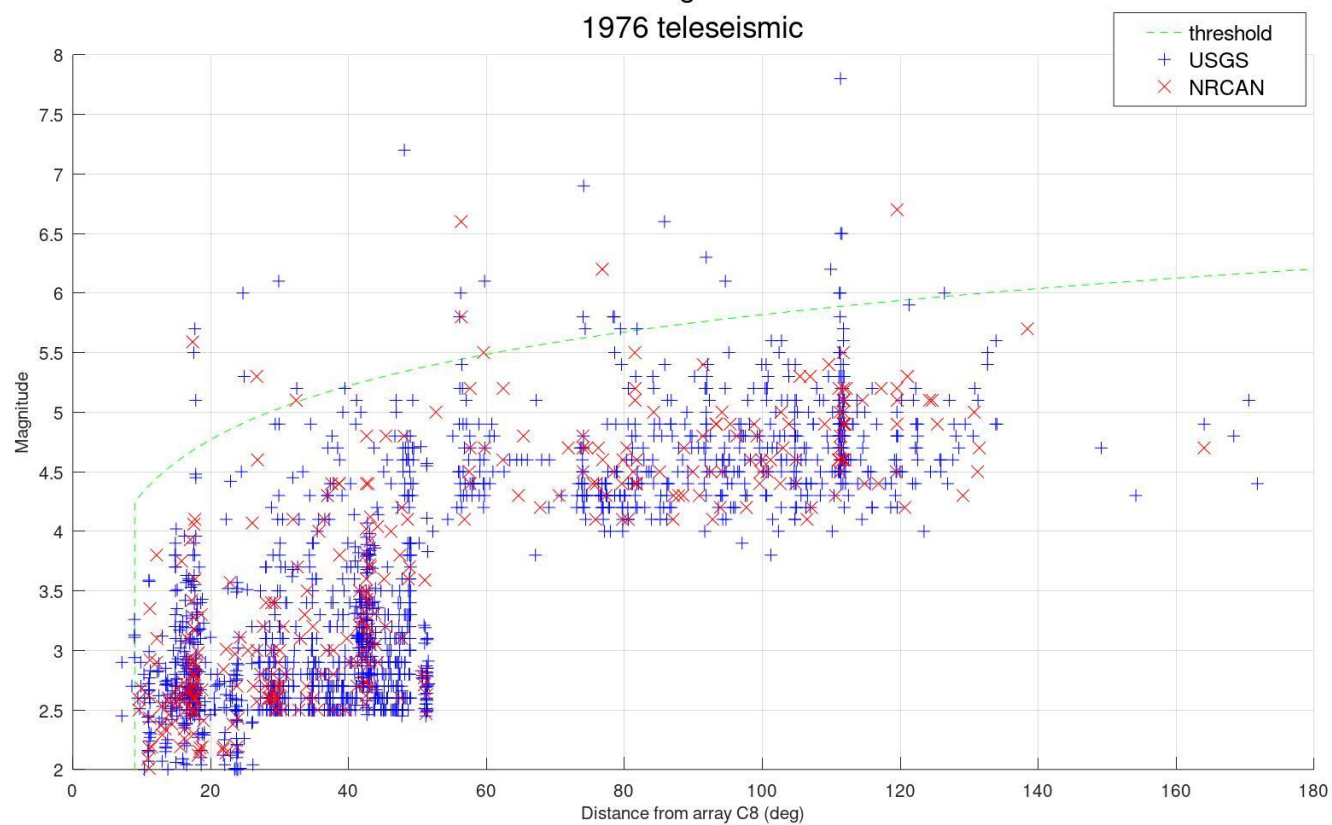


Figure 5. Magnitudes and distances from Aquistore for earthquake parameters downloaded from USGS and NRCAN databases (legend). Dashed green line shows the detection threshold above which a manual review of events was performed.

Teleseismic events (class 1)

Above the threshold line in Figure 5, 33 teleseismic events (class 1 in Table 2) were identified in June 2026 (Figure 6). Some of the events are clear and spectacular and for other, only the S-wave (red marks in Figure 5) and surface waves (low-frequency arrivals after the S waves) can be recognized.

Event 44931 (us7000spru, us): mww 5.7; 2026-06-01 03:34:31 30.72N, 141.75E: Izu Islands, Japan region
Vp=10.00 km/s; Vs=5.77 km/s; baz=308.1 deg; dist=81.8 deg (9123.6 km); depth=11 km

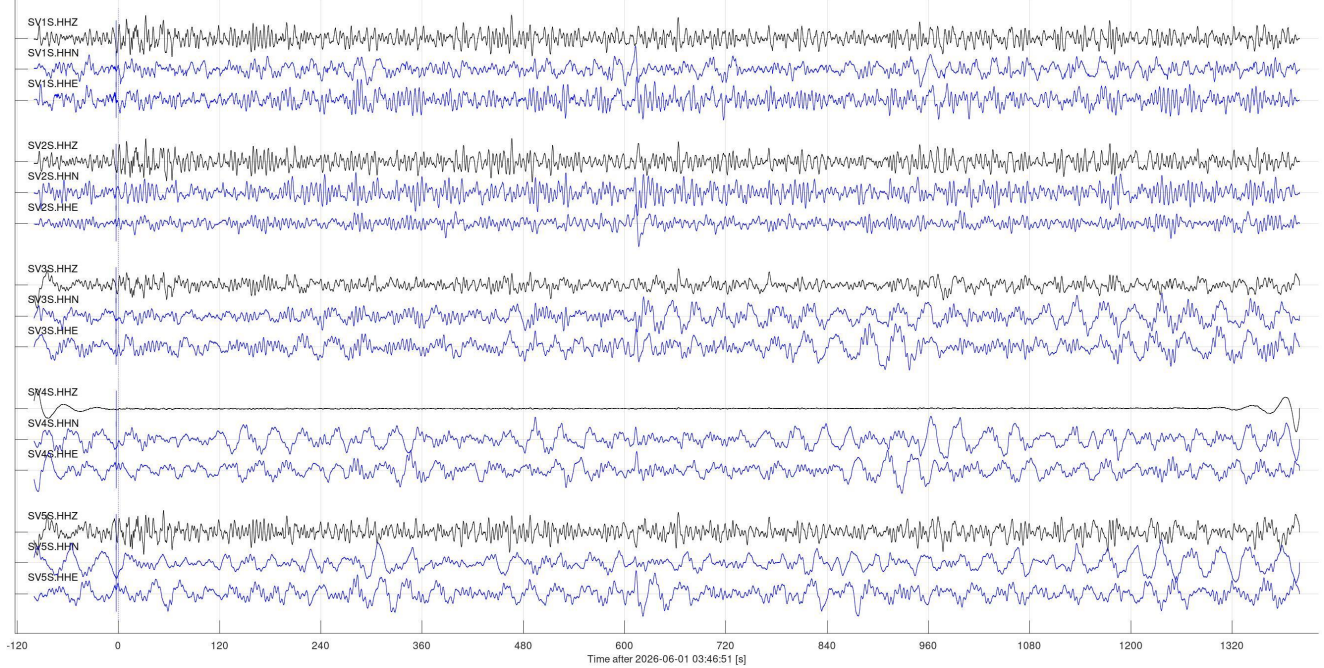


Figure 6. Teleseismic events detected at Aquistore in June 2026. Plot headings show catalogue IDs, magnitudes, times, distances in degrees, source coordinates and localities, back-azimuths ('baz='), distances ('dist=') and source depths. Vertical-component records are shown in black, and horizontal components in blue. Time zeros are located at the times of P-wave arrivals at the Aquistore array predicted in the reference model IASP91 and corrected interactively. Blue and red bars indicate the P-wave and S-wave picks, respectively. Ignore the (technical) cyan and dashed bars.

Event 45840 (us7000ssq9, us): mww 5.1; 2026-06-13 18:20:42 16.75N,99.63W: 2 km S of Cerro de Piedra, Mexico
Vp=10.00 km/s; Vs=5.77 km/s; baz=173.8 deg; dist=32.4 deg (3610.2 km); depth=10 km

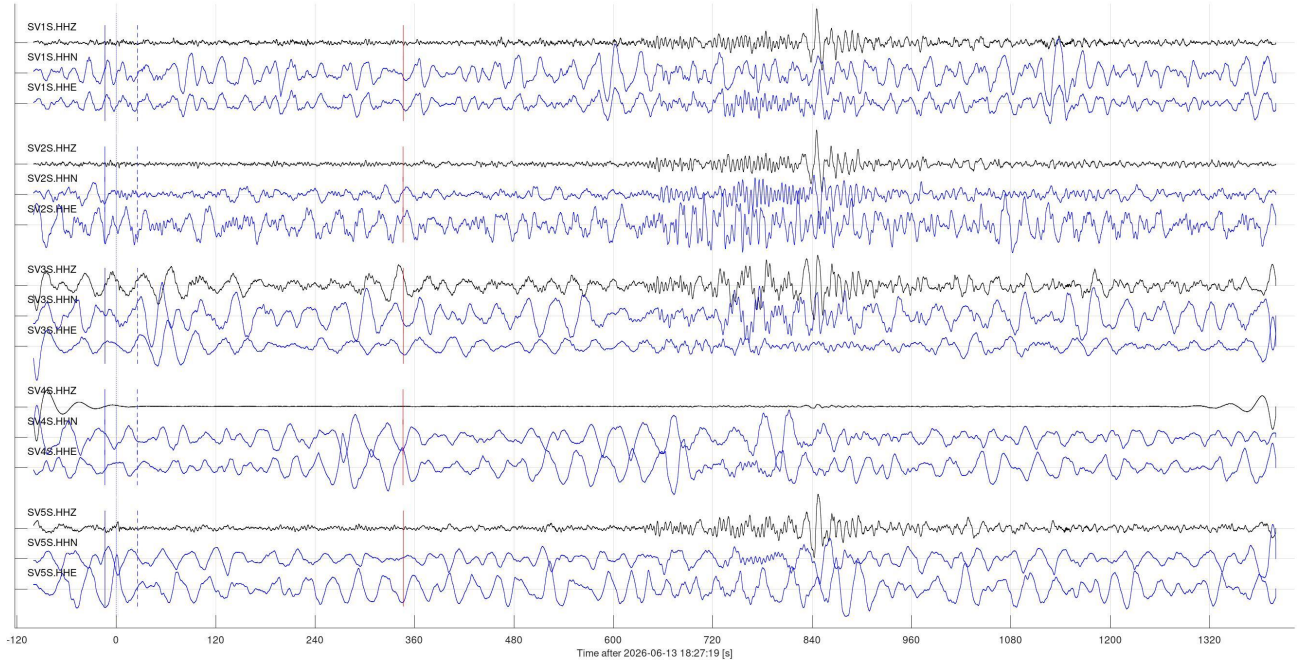


Figure 6, continued.

Event 45405 (us7000sr8v, us): mww 5.5; 2026-06-07 14:53:56 49.90N,157.66E: 139 km SE of Severo-Kuril'sk, Russia
Vp=10.00 km/s; Vs=5.77 km/s; baz=312.3 deg; dist=59.6 deg (6642.6 km); depth=10 km

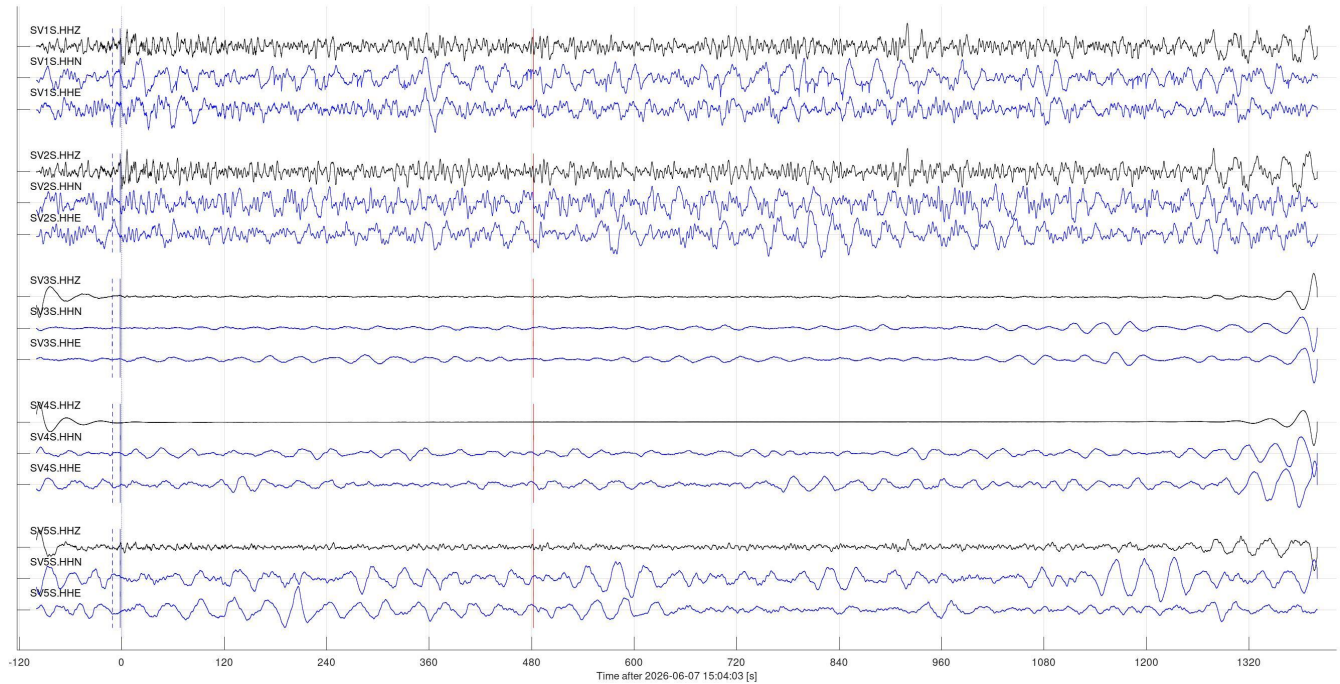


Figure 6, continued.

Event 45643 (us7000ss03, us): mww 5.7; 2026-06-10 10:34:17 43.63N,135.67E: 33 km ESE of Ol'ga, Russia
Vp=10.00 km/s; Vs=5.77 km/s; baz=319.8 deg; dist=74.3 deg (8285.0 km); depth=343 km

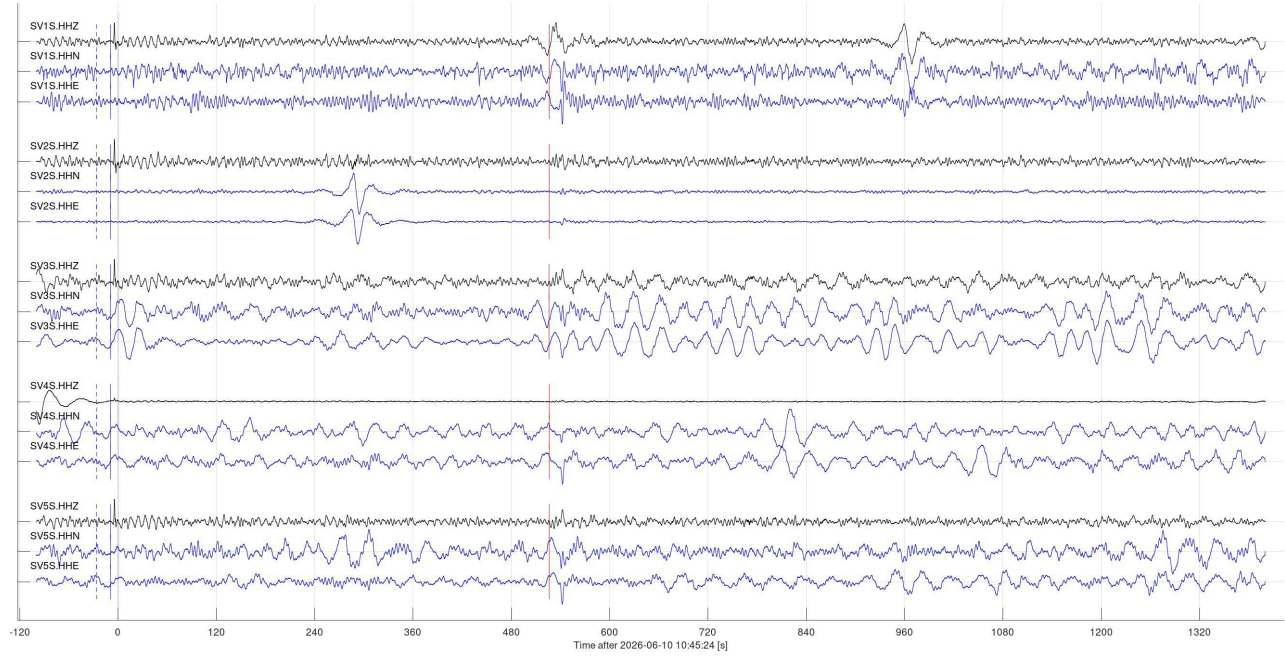


Figure 6, continued.

Event 45379 (us7000srbe, us): mb 6.0; 2026-06-07 23:48:11 5.52N,125.21E: 16 km WSW of Balangonan, Philippines
Vp=10.00 km/s; Vs=5.77 km/s; baz=307.1 deg; dist=111.3 deg (12410.7 km); depth=82 km

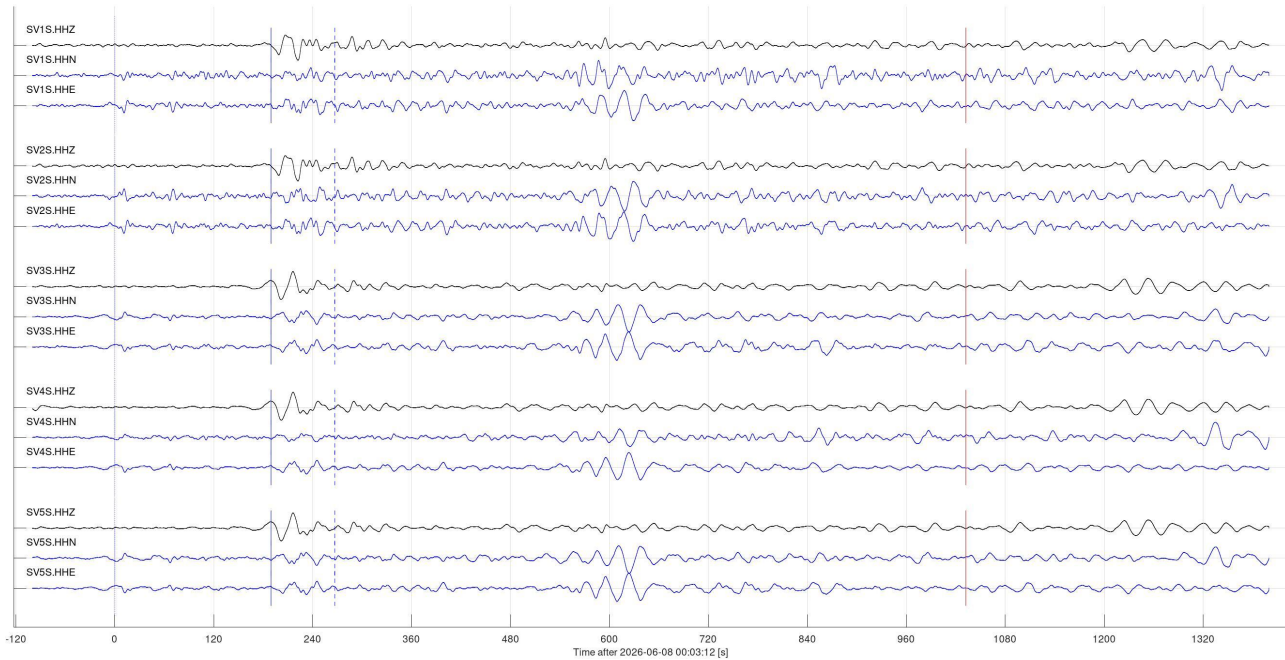
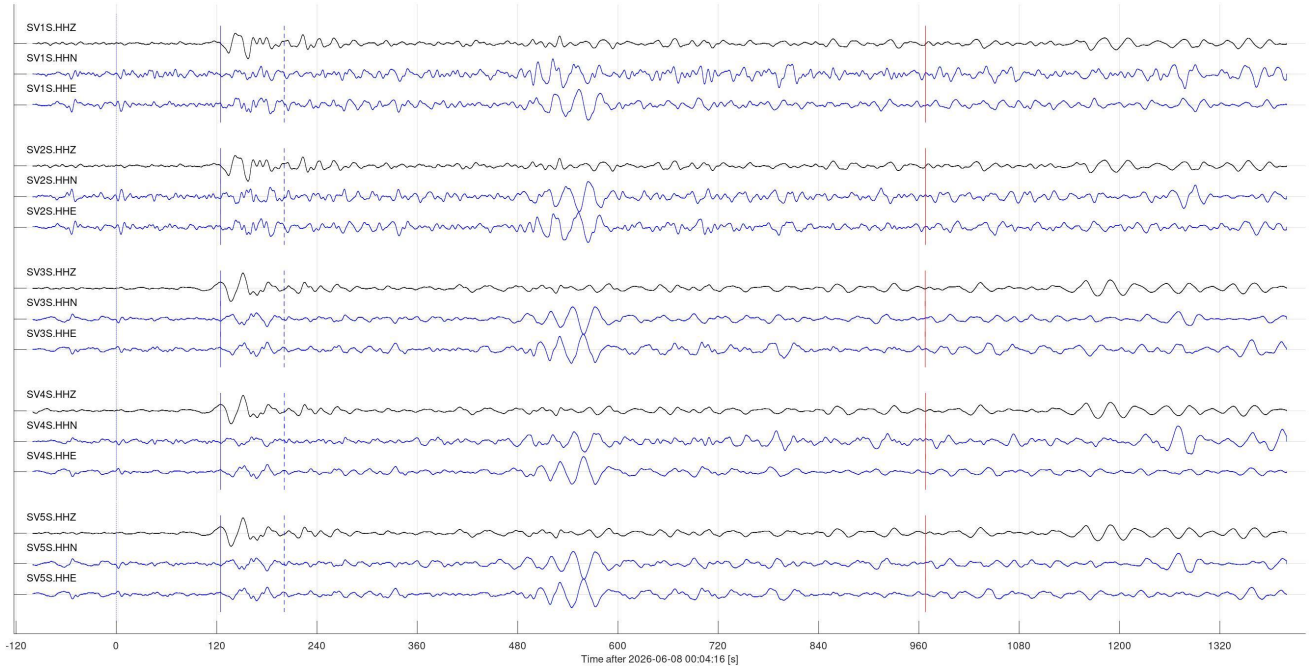
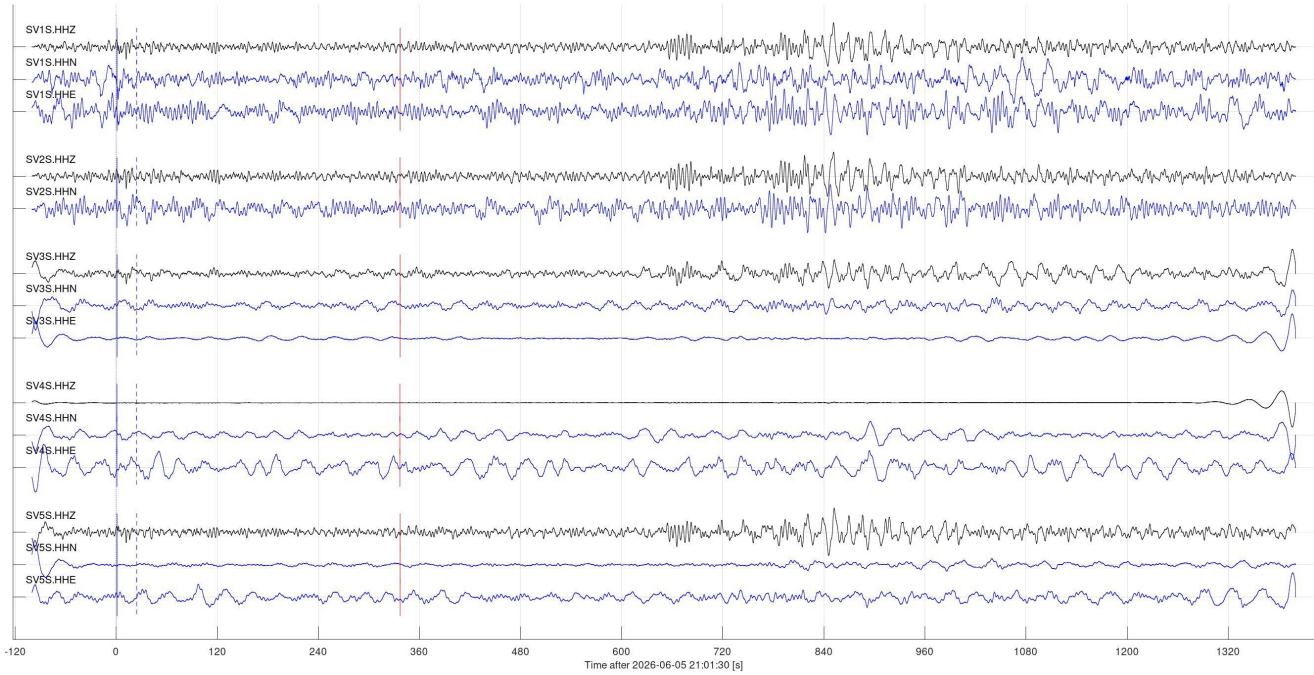


Figure 6, continued.

Event 45378 (us7000src3, us): mb 6.0; 2026-06-07 23:49:15 5.65N,125.26E: 6 km SSW of Pangyan, Philippines
Vp=10.00 km/s; Vs=5.77 km/s; baz=307.1 deg; dist=111.2 deg (12395.9 km); depth=43 km



Event 45269 (us7000sqzv, us): mww 5.2; 2026-06-05 20:55:03 16.77N,98.41W: 2 km WSW of Santa María, Mexico
Vp=10.00 km/s; Vs=5.77 km/s; baz=171.7 deg; dist=32.5 deg (3620.2 km); depth=33 km



Event 46669 (us6000t8cy, us): mww 5.8; 2026-06-26 03:46:36 35.63N, 140.51E: 3 km SE of Yokoshiba, Japan
Vp=10.00 km/s; Vs=5.77 km/s; baz=311.9 deg; dist=78.5 deg (8756.1 km); depth=43 km

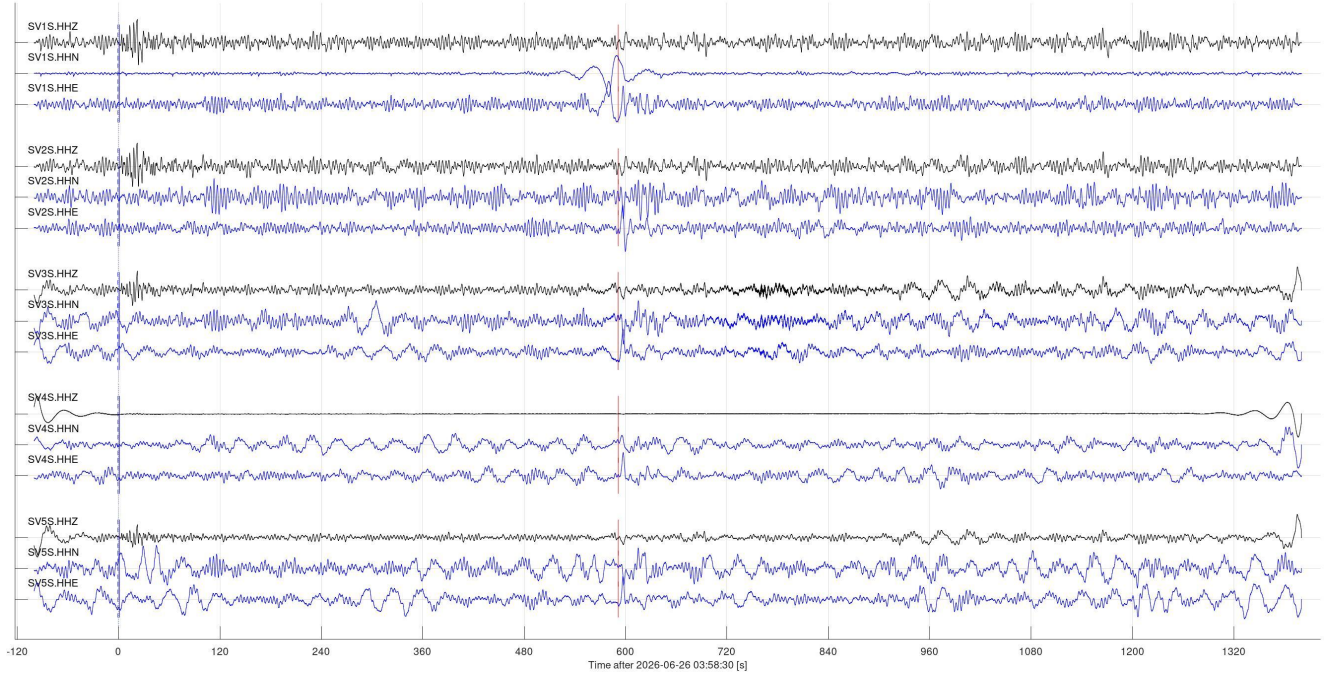


Figure 6, continued.

Event 45394 (us7000sr9r, us): mww 5.8; 2026-06-07 18:01:21 29.18S, 112.21W: Easter Island region
Vp=10.00 km/s; Vs=5.77 km/s; baz=188.1 deg; dist=78.4 deg (8736.1 km); depth=10 km

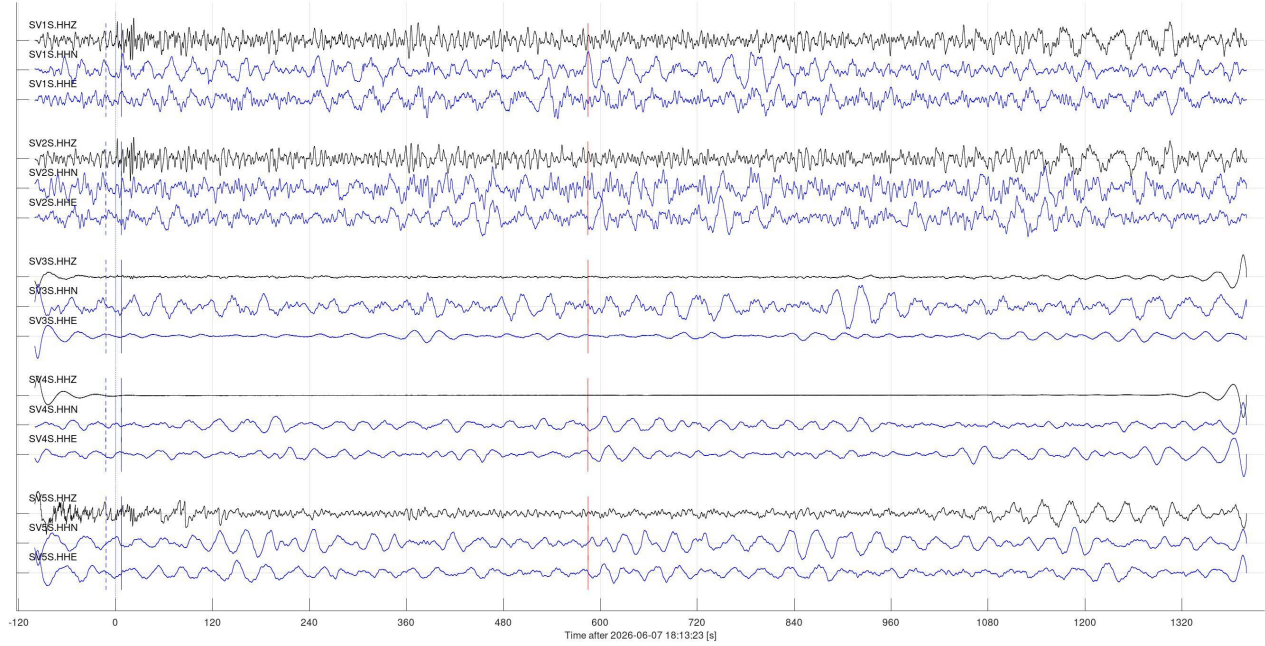


Figure 6, continued.

Event 46793 (us6000t8qd, us): mww 5.8; 2026-06-27 20:21:51 40.21N,142.41E: 51 km ENE of Noda, Japan
Vp=10.00 km/s; Vs=5.77 km/s; baz=313.5 deg; dist=74.0 deg (8250.5 km); depth=34 km

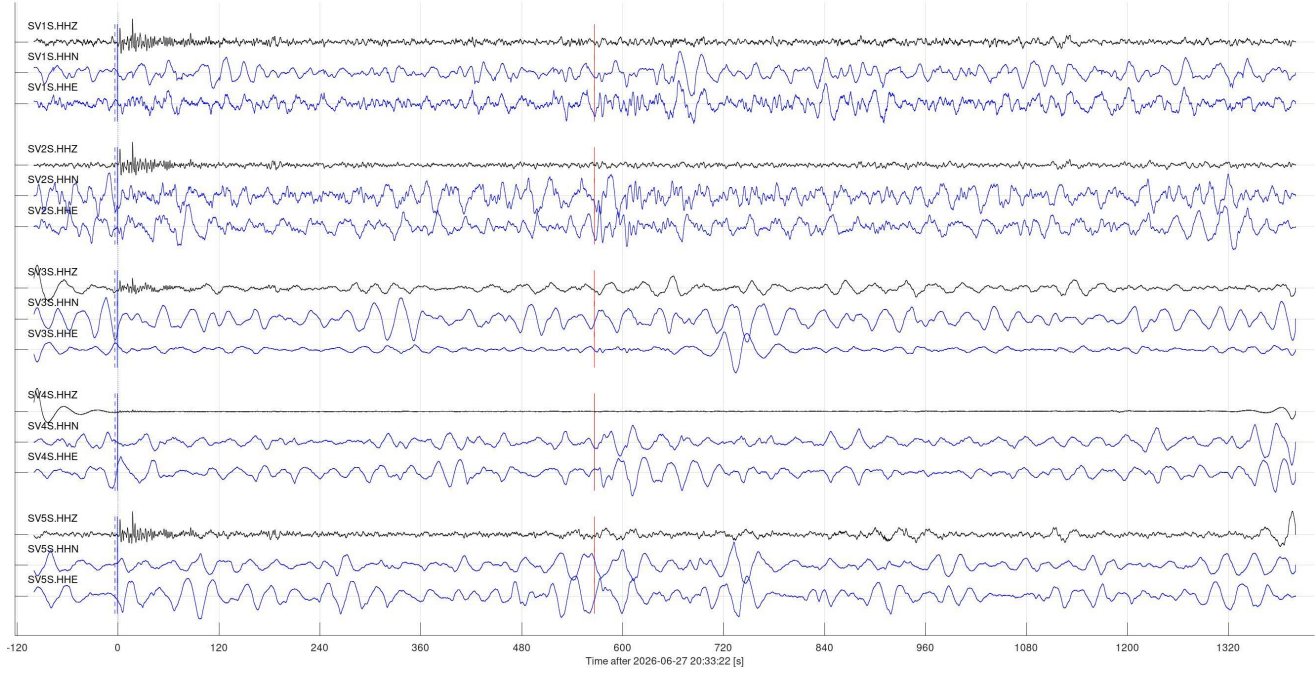


Figure 6, continued.

Event 46802 (us6000t8pa, us): mww 6.1; 2026-06-27 13:34:53 36.47N,70.76E: 43 km S of Jurm, Afghanistan
Vp=10.00 km/s; Vs=5.77 km/s; baz=5.0 deg; dist=94.6 deg (10551.5 km); depth=199 km

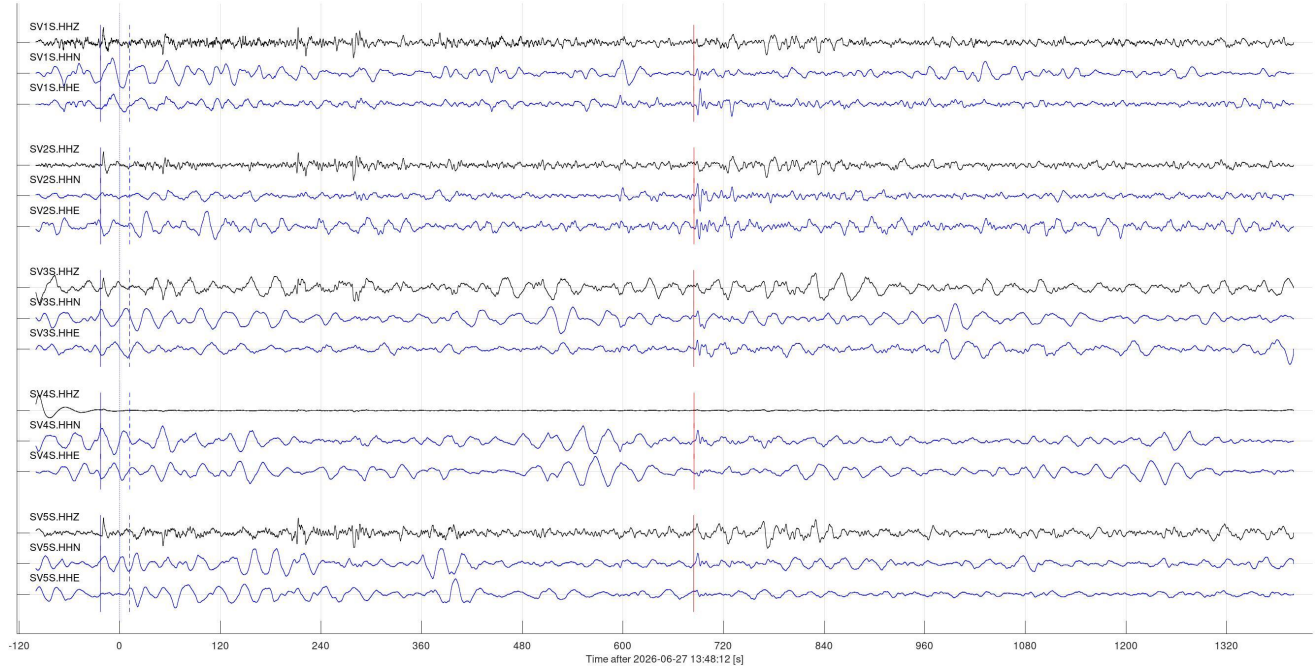


Figure 6, continued.

Event 45945 (us7000st1c, us): mww 6.2; 2026-06-15 09:18:39 6.19N,126.76E: 67 km ESE of Pondaguitan, Philippines
Vp=10.00 km/s; Vs=5.77 km/s; baz=306.1 deg; dist=109.9 deg (12256.4 km); depth=112 km

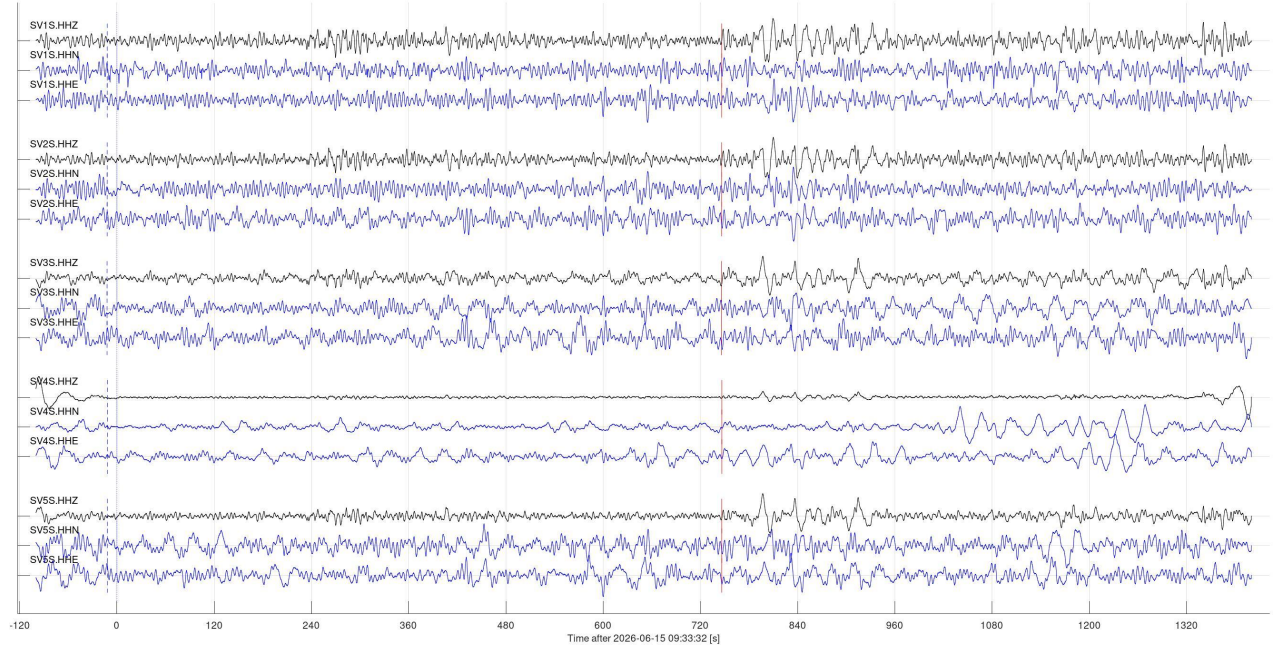


Figure 6, continued.

Event 46833 (aka2026msxacu, ak): ml 5.3; 2026-06-29 03:32:40 60.24N,145.91W: 35 km SSW of Cordova, Alaska
Vp=10.00 km/s; Vs=5.77 km/s; baz=310.9 deg; dist=26.7 deg (2973.7 km); depth=13 km

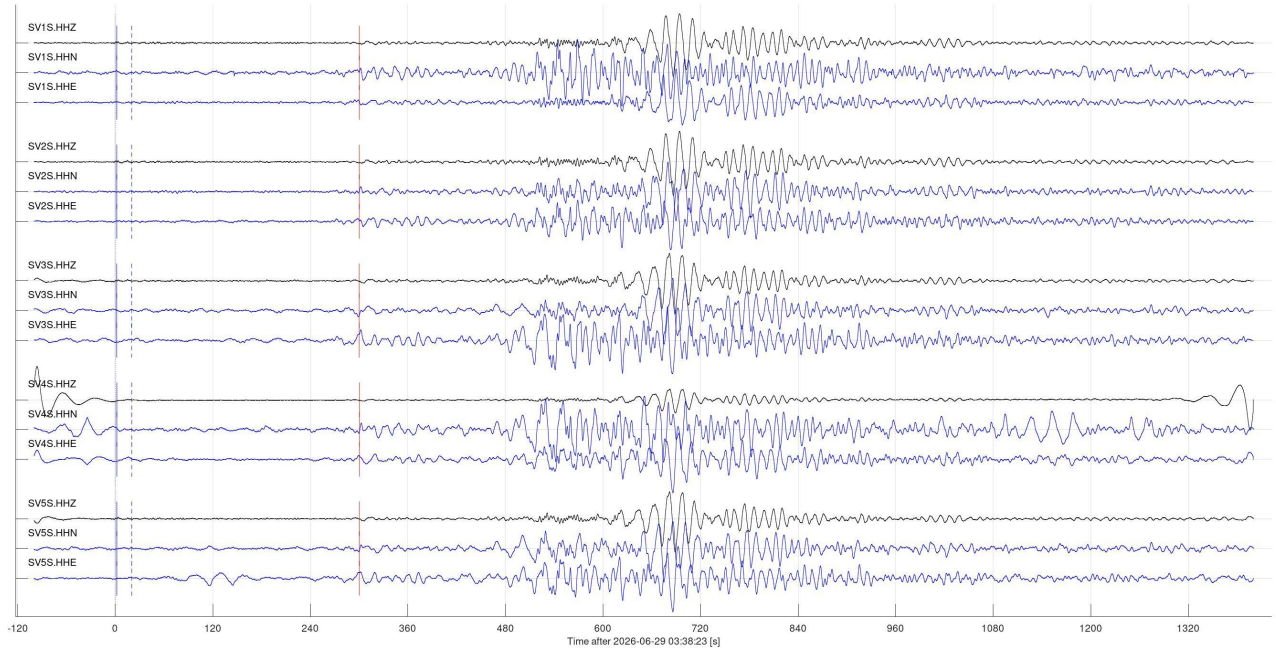


Figure 6, continued.

Event 46275 (us7000susb, us): mww 5.8; 2026-06-20 03:49:06 52.73N,160.64E: 140 km ESE of Petropavlovsk-Kamchatsky, Russia
Vp=10.00 km/s; Vs=5.77 km/s; baz=313.4 deg; dist=56.3 deg (6280.4 km); depth=35 km

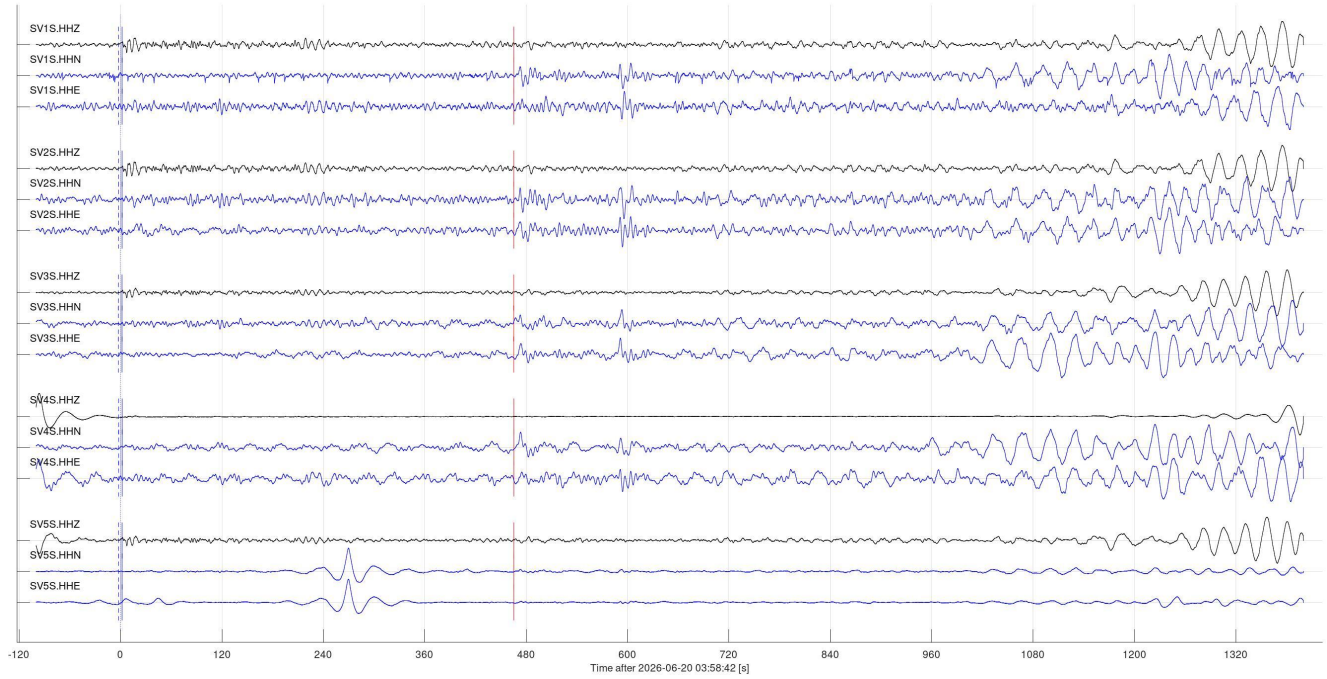


Figure 6, continued.

Event 46312 (us7000suii, us): mww 5.8; 2026-06-19 07:52:58 52.74N,161.11E: 171 km ESE of Petropavlovsk-Kamchatsky, Russia
Vp=10.00 km/s; Vs=5.77 km/s; baz=313.2 deg; dist=56.1 deg (6254.7 km); depth=10 km

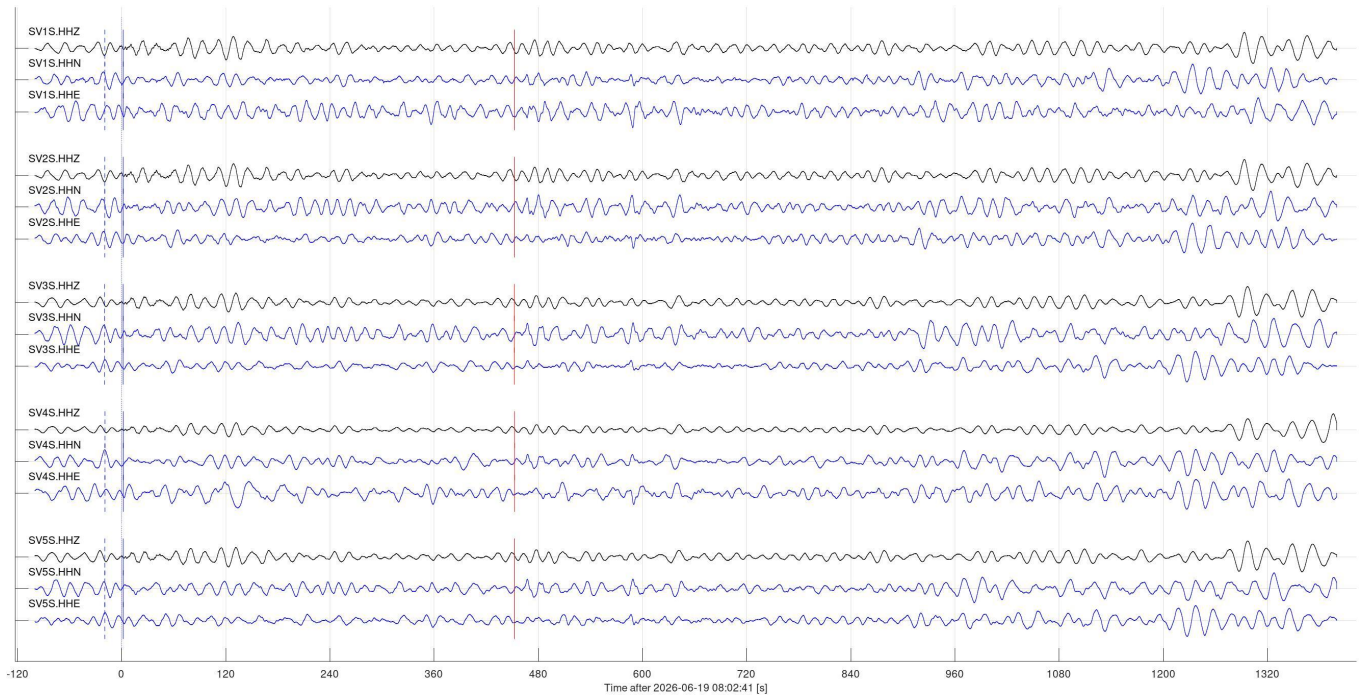


Figure 6, continued.

Event 46970 (us6000t9a4, us): mww 5.3; 2026-06-30 21:01:34 24.66N,109.02W: 95 km SSW of El Progreso, Mexico
Vp=10.00 km/s; Vs=5.77 km/s; baz=193.0 deg; dist=24.8 deg (2768.7 km); depth=10 km

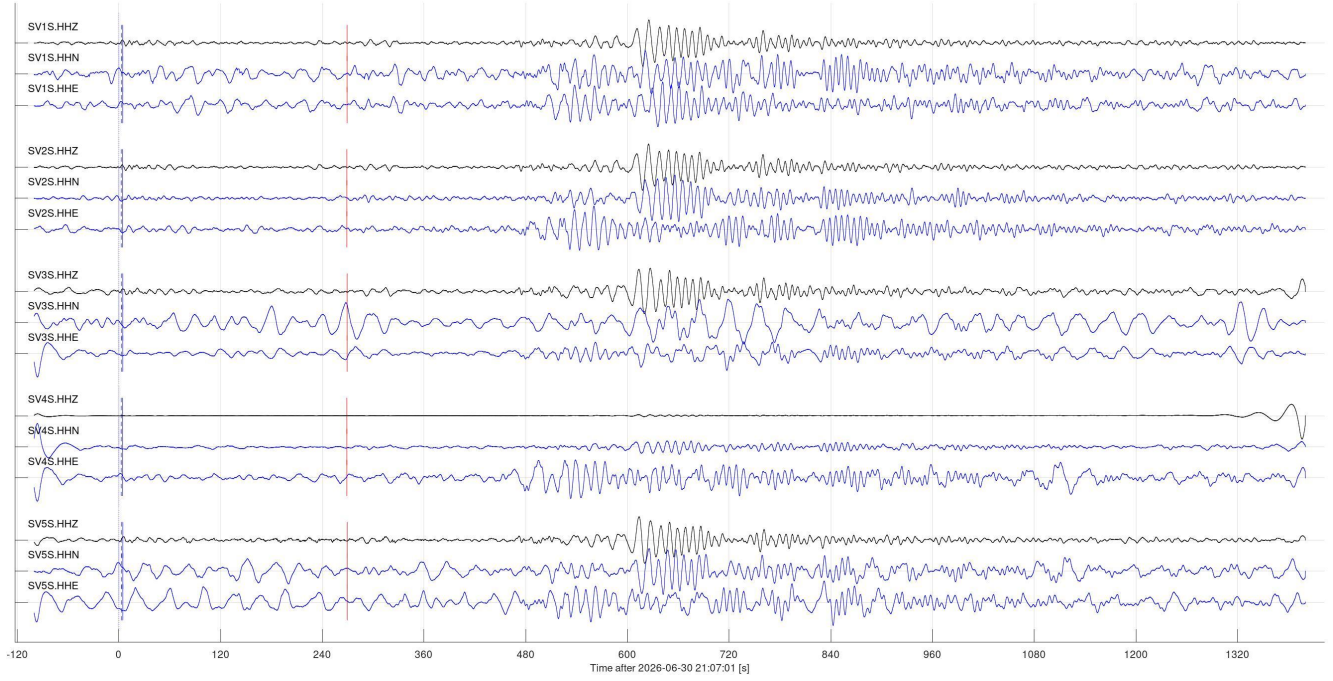


Figure 6, continued.

Event 45147 (nc75370186, nc): mw 5.1; 2026-06-03 12:45:37 40.36N,125.02W: 62 km W of Petrolia, CA
Vp=10.00 km/s; Vs=5.77 km/s; baz=248.9 deg; dist=17.8 deg (1986.7 km); depth=10 km

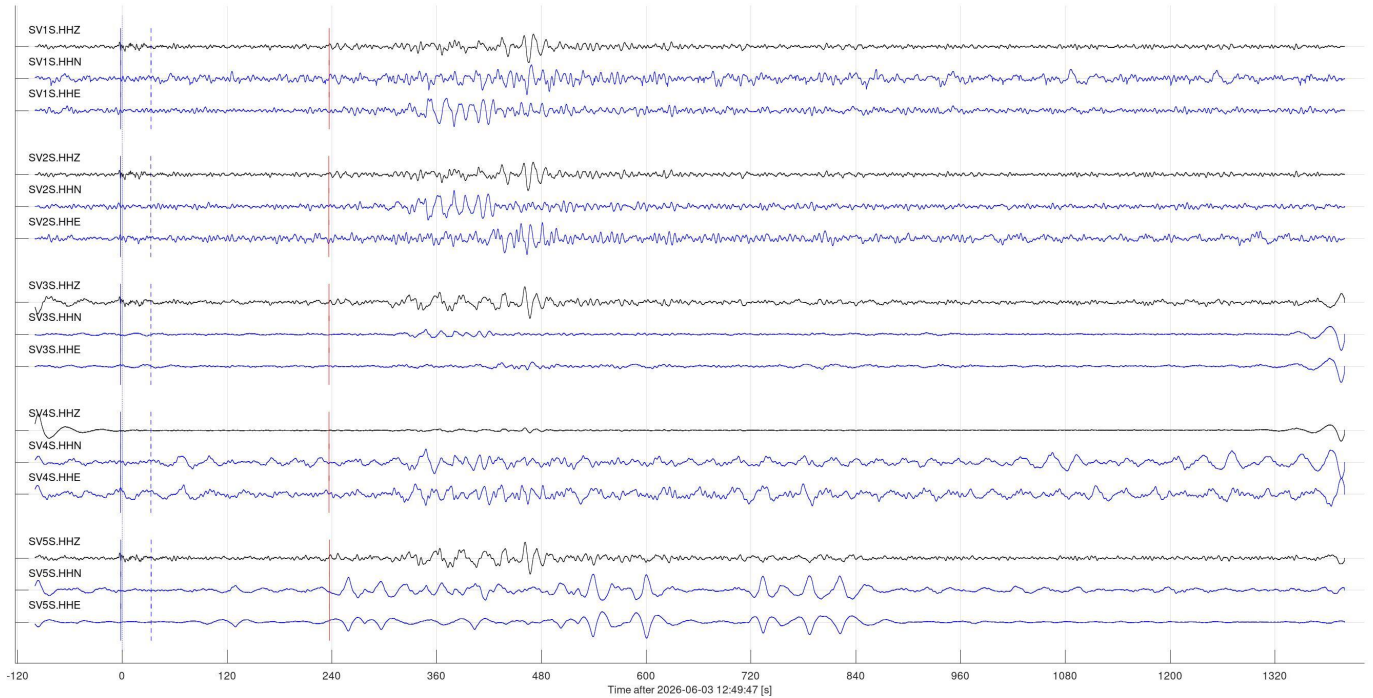


Figure 6, continued.

Event 46041 (us7000stbz, us): mww 6.3; 2026-06-16 09:06:55 37.89N,95.40E: 260 km SSE of Dunhuang, China
Vp=10.00 km/s; Vs=5.77 km/s; baz=345.5 deg; dist=91.9 deg (10242.0 km); depth=10 km

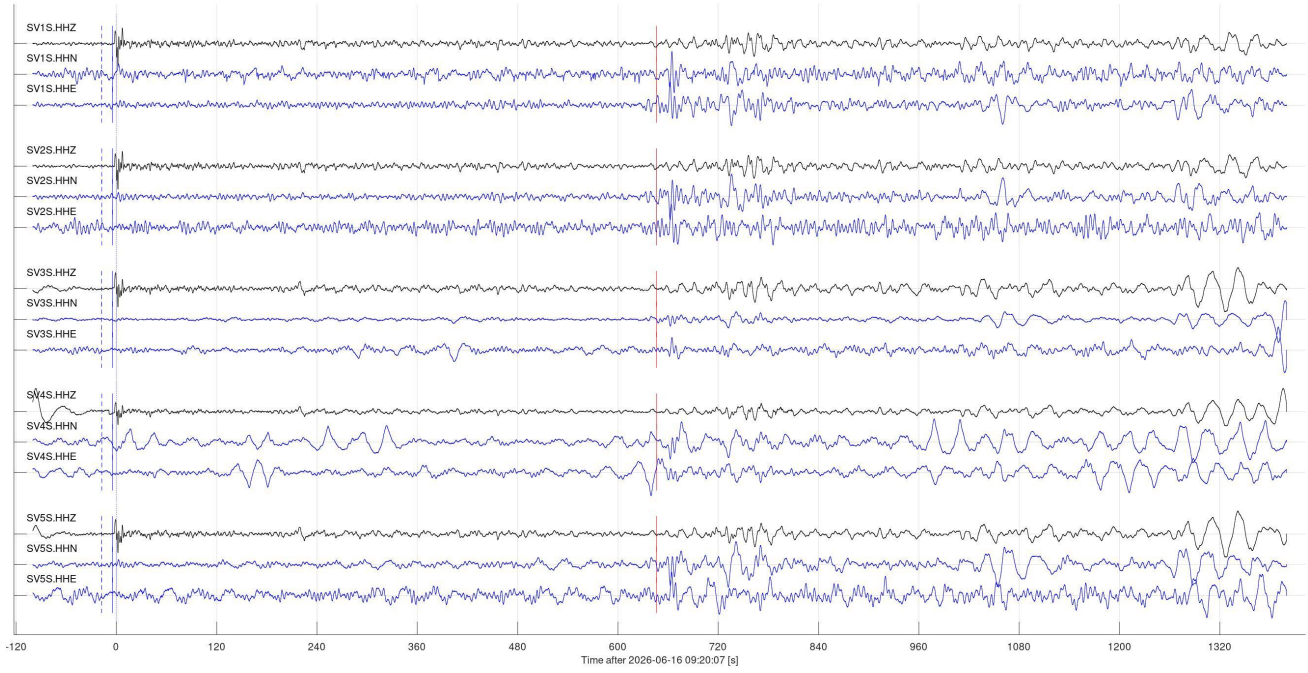


Figure 6, continued.

Event 44986 (us7000spxm, us): mww 6.2; 2026-06-01 22:12:36 39.25N,15.79E: 23 km WSW of San Lucido, Italy
Vp=10.00 km/s; Vs=5.77 km/s; baz=44.3 deg; dist=76.8 deg (8561.8 km); depth=243 km

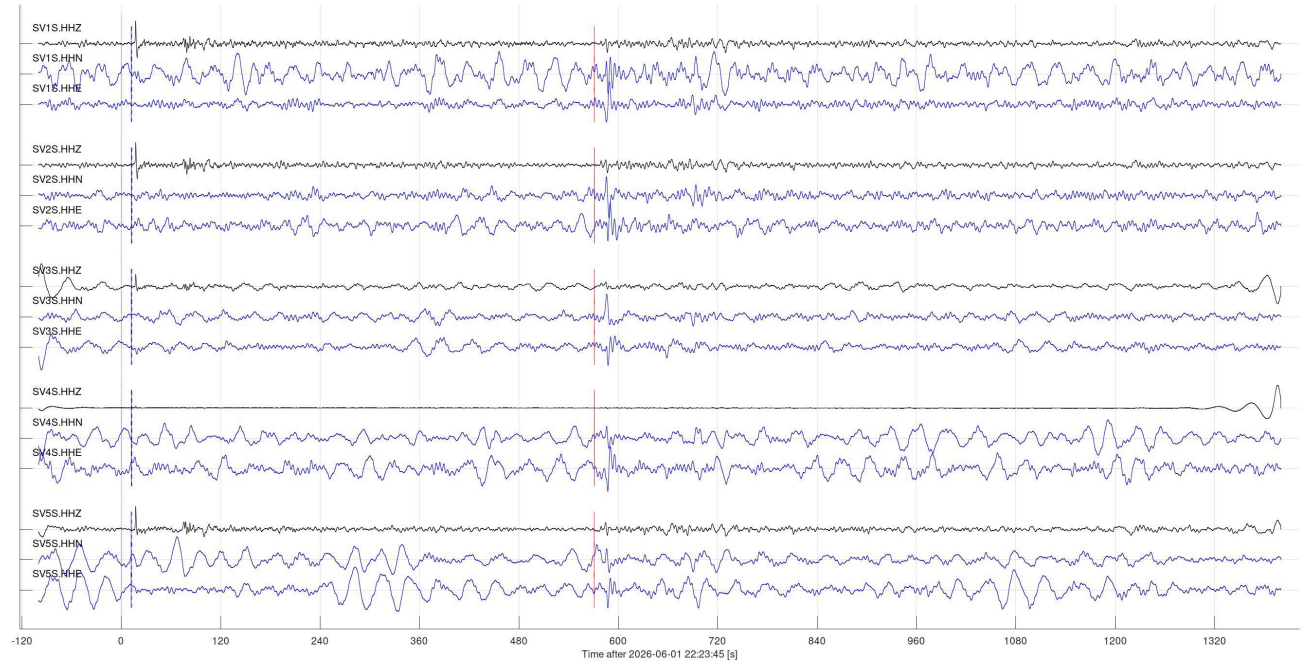


Figure 6, continued.

Event 46319 (us7000sui2, us): mb 6.0; 2026-06-19 06:51:31 52.69N,160.86E: 156 km ESE of Petropavlovsk-Kamchatsky, Russia
 $V_p=10.00$ km/s; $V_s=5.77$ km/s; baz=313.3 deg; dist=56.2 deg (6271.2 km); depth=28 km

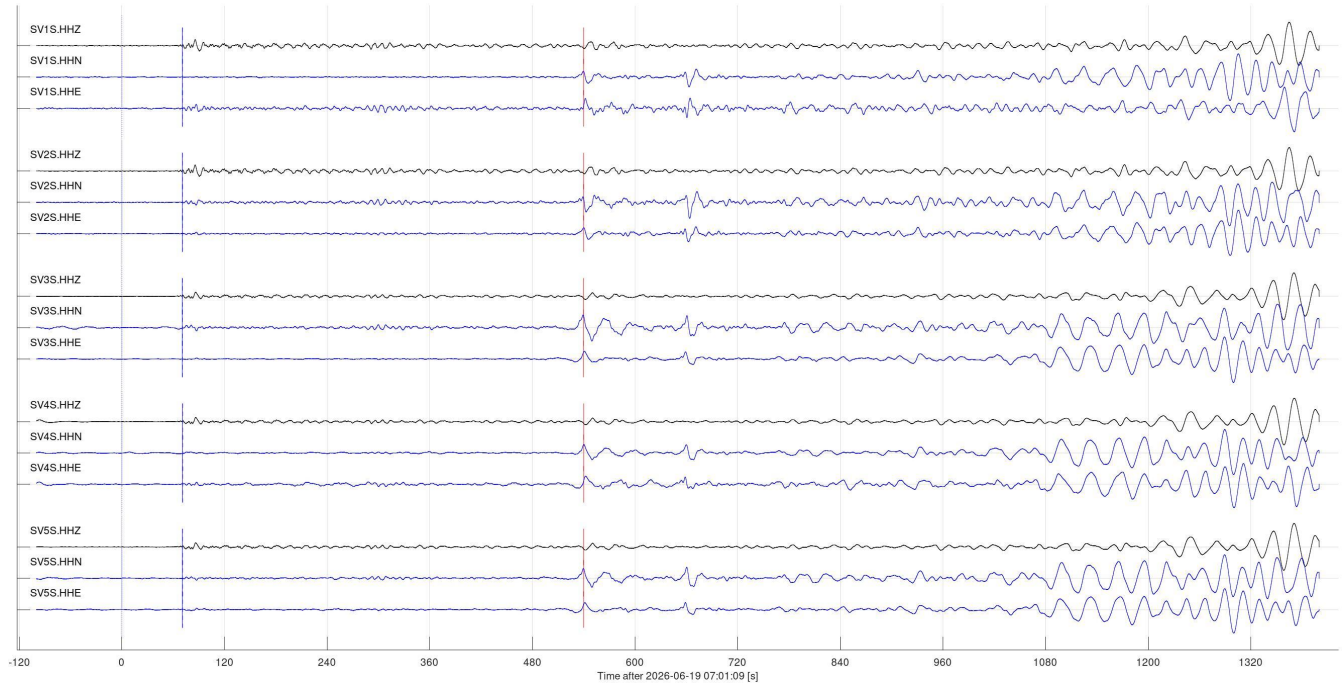


Figure 6, continued.

Event 46767 (us6000t8ec, us): mww 6.5; 2026-06-26 11:34:41 5.24N,125.20E: 34 km WSW of Sarangani, Philippines
 $V_p=10.00$ km/s; $V_s=5.77$ km/s; baz=307.0 deg; dist=111.6 deg (12438.1 km); depth=42 km

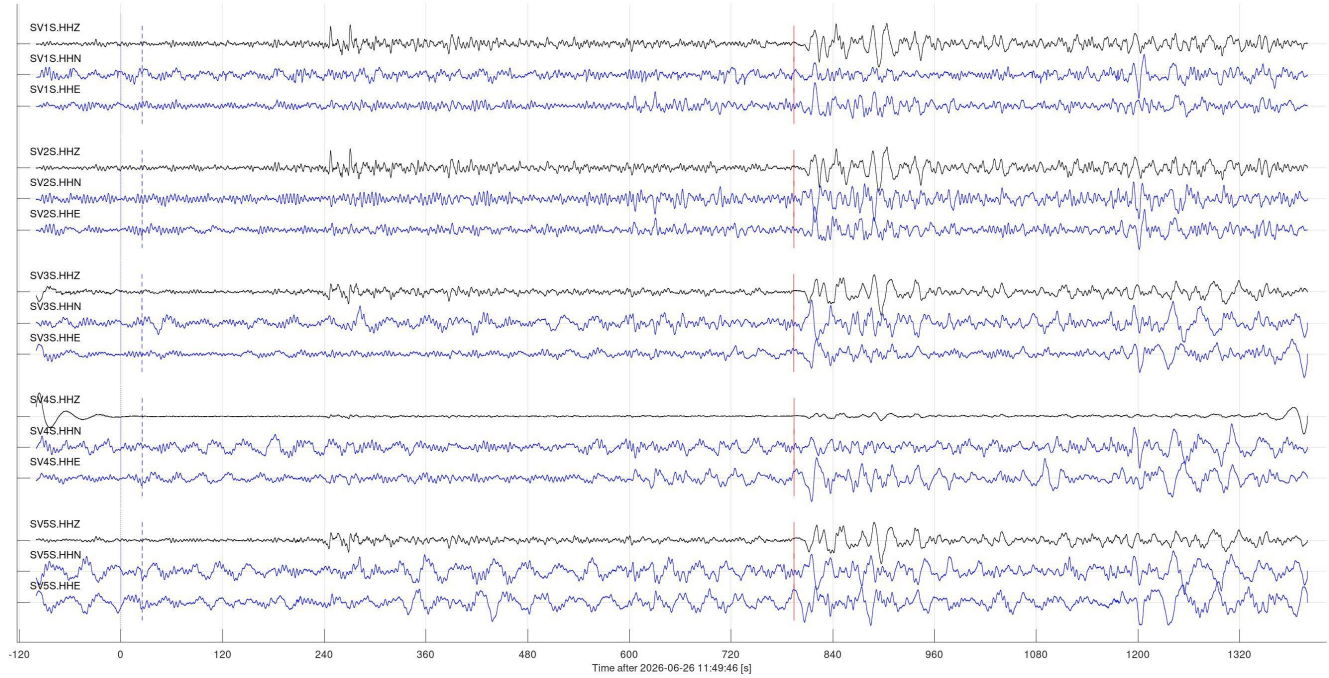


Figure 6, continued.

Event 45415 (us7000sr7l, us): mww 6.1; 2026-06-07 10:41:59 49.90N,157.38E: 124 km SE of Severo-Kuril'sk, Russia
 $V_p=10.00$ km/s; $V_s=5.77$ km/s; baz=312.4 deg; dist=59.7 deg (6657.9 km); depth=35 km

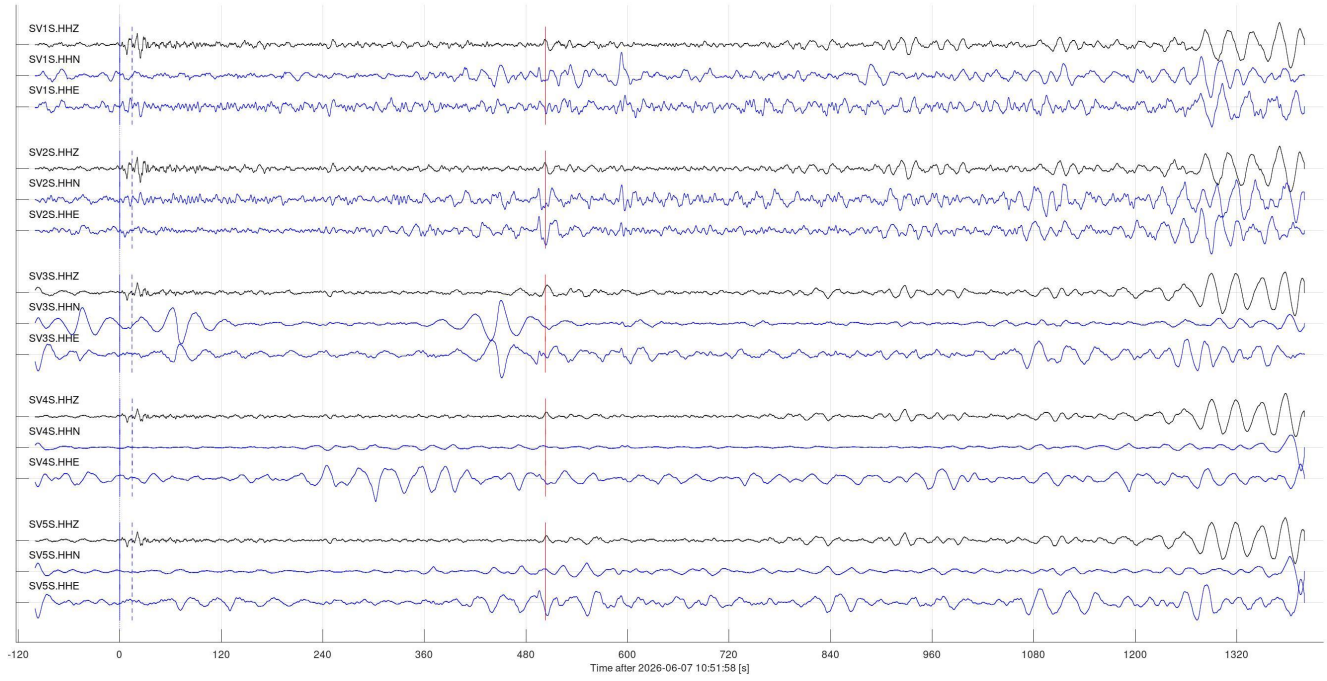


Figure 6, continued.

Event 45917 (us7000st95, us): mww 6.7; 2026-06-16 03:27:44 1.12S,120.20E: 43 km ESE of Palu, Indonesia
 $V_p=10.00$ km/s; $V_s=5.77$ km/s; baz=308.0 deg; dist=119.5 deg (13329.1 km); depth=10 km

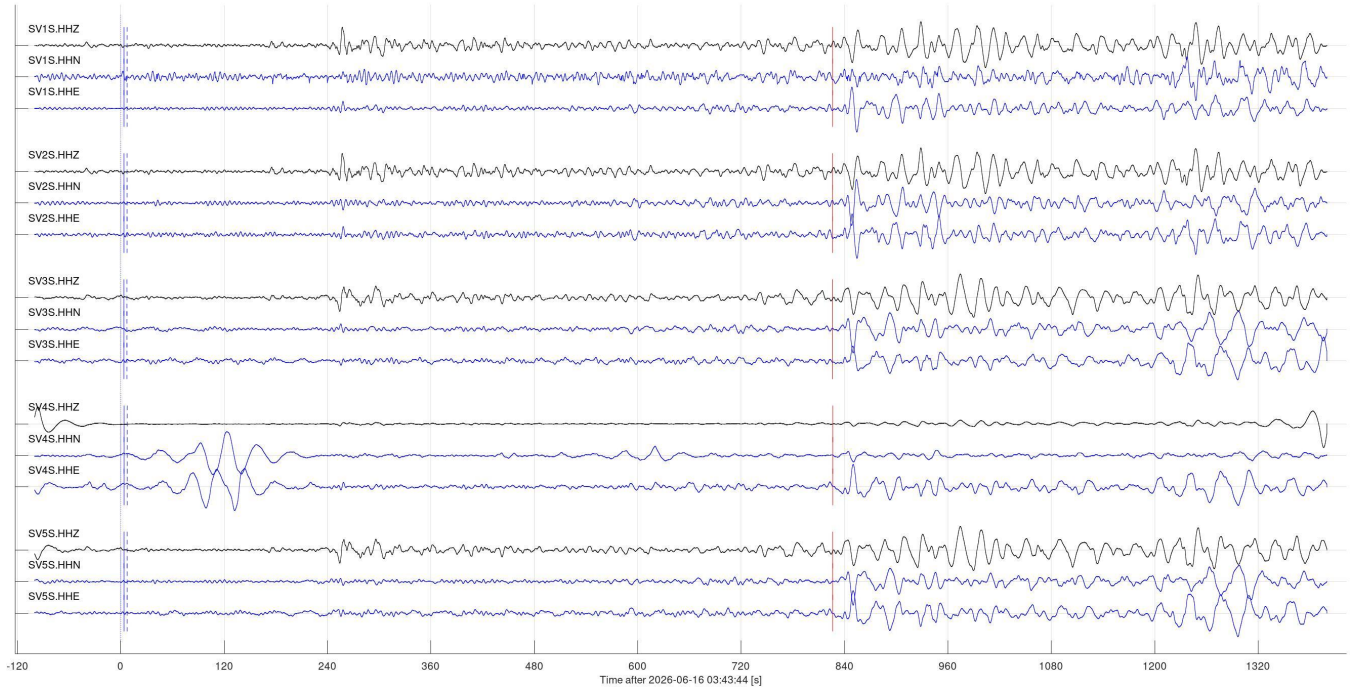


Figure 6, continued.

Event 46903 (us6000t8yt, us): mww 5.5; 2026-06-29 11:35:34 43.38N,127.08W: 218 km W of Bandon, Oregon
Vp=10.00 km/s; Vs=5.77 km/s; baz=260.0 deg; dist=17.5 deg (1954.0 km); depth=10 km

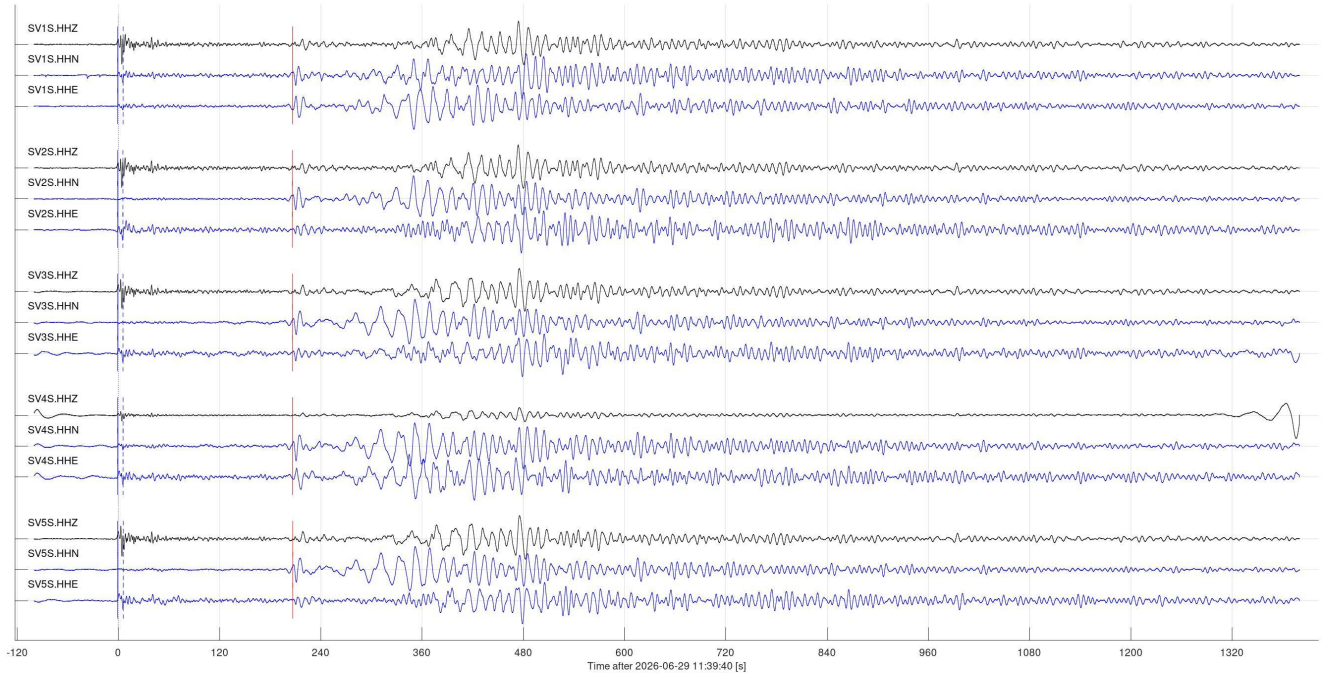


Figure 6, continued.

Event 46114 (us7000stti, us): mww 6.6; 2026-06-17 18:56:58 0.51S,20.05W: central Mid-Atlantic Ridge
Vp=10.00 km/s; Vs=5.77 km/s; baz=95.6 deg; dist=85.8 deg (9567.8 km); depth=10 km

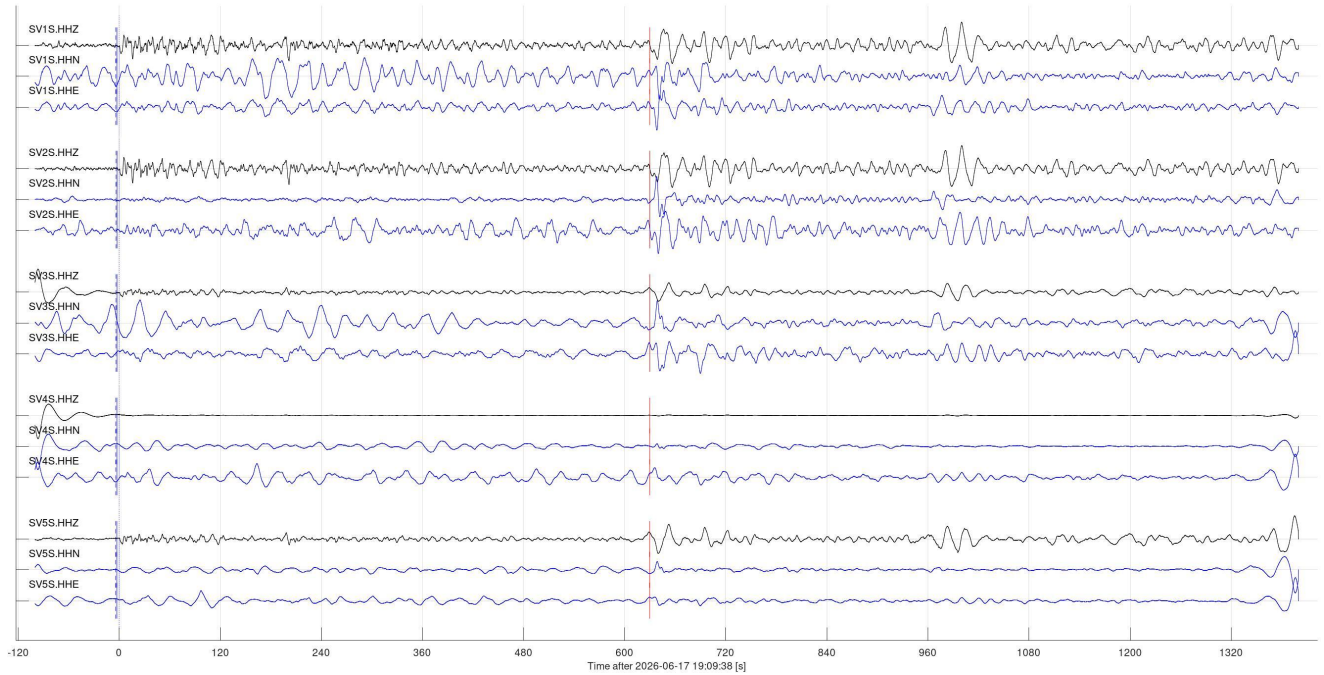


Figure 6, continued.

Event 46631 (nc75382936, nc): mw 5.6; 2026-06-24 15:10:41 39.36N,123.23W: 11 km N of Redwood Valley, CA
Vp=10.00 km/s; Vs=5.77 km/s; baz=243.5 deg; dist=17.4 deg (1936.4 km); depth=8.85 km

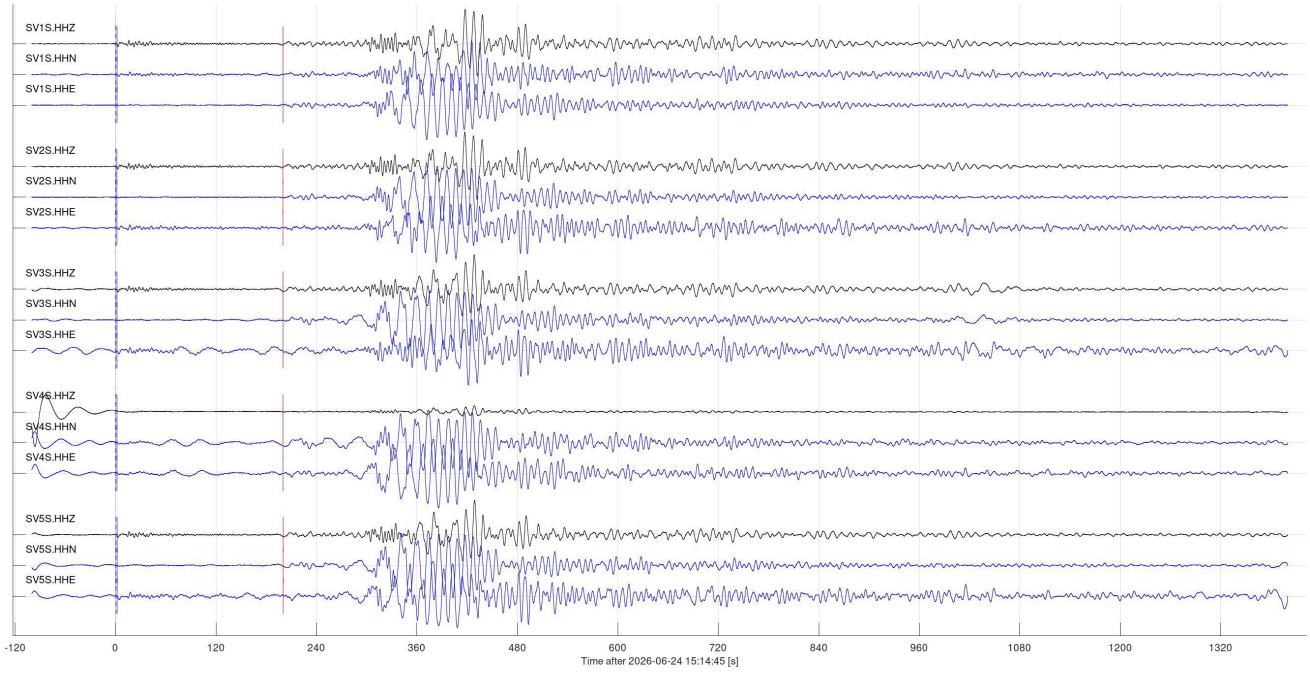


Figure 6, continued.

Event 45151 (us7000sq93, us): mww 5.7; 2026-06-03 10:53:54 41.90N,126.19W: 154 km WSW of Pistol River, Oregon
Vp=10.00 km/s; Vs=5.77 km/s; baz=254.7 deg; dist=17.7 deg (1972.0 km); depth=10 km

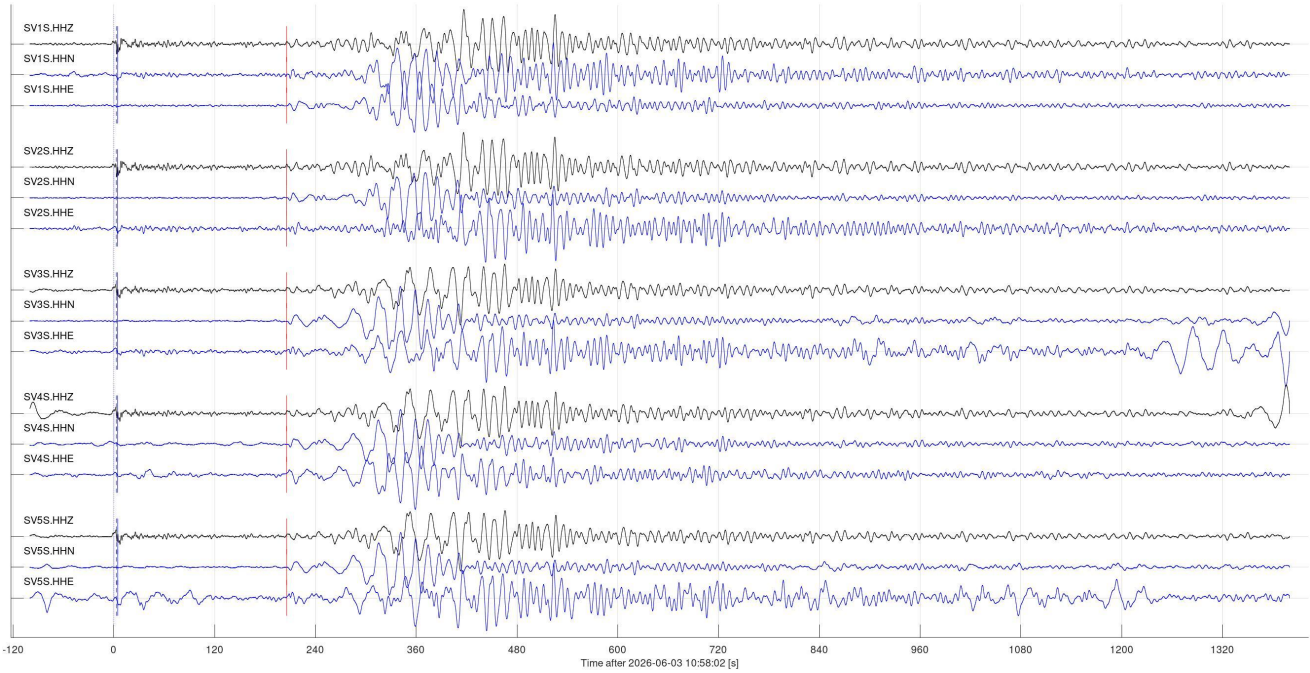
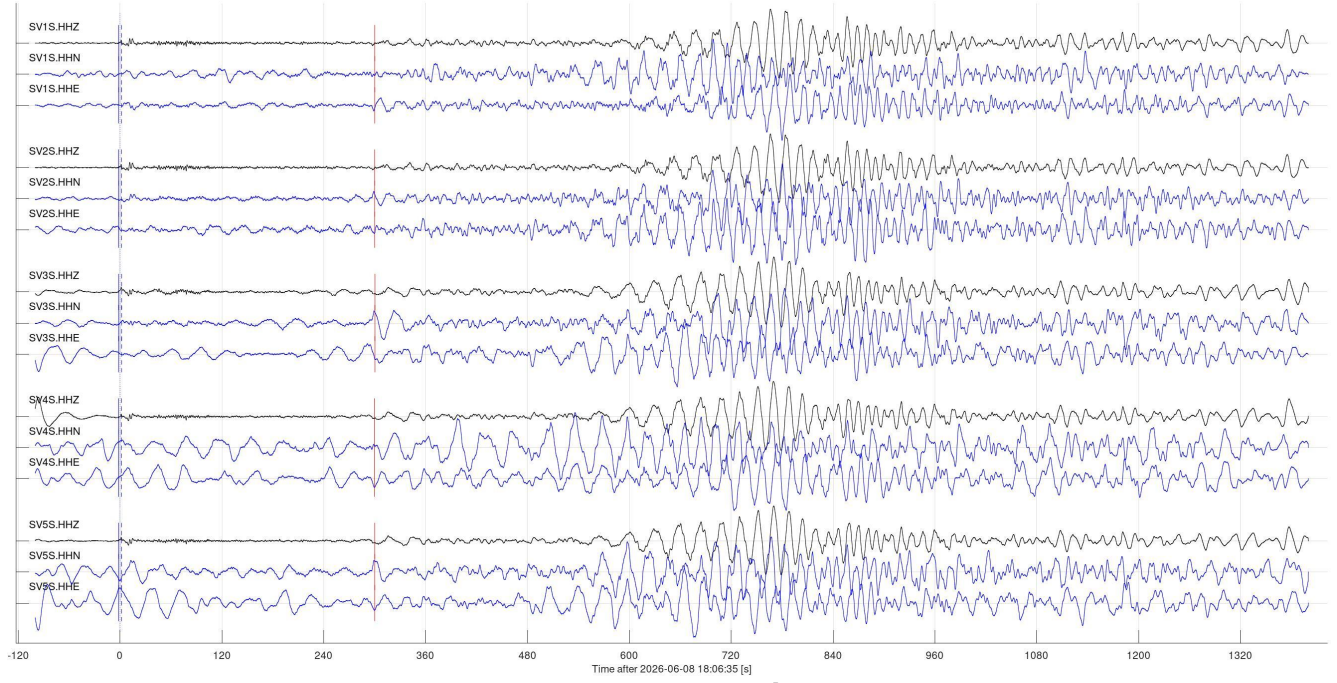
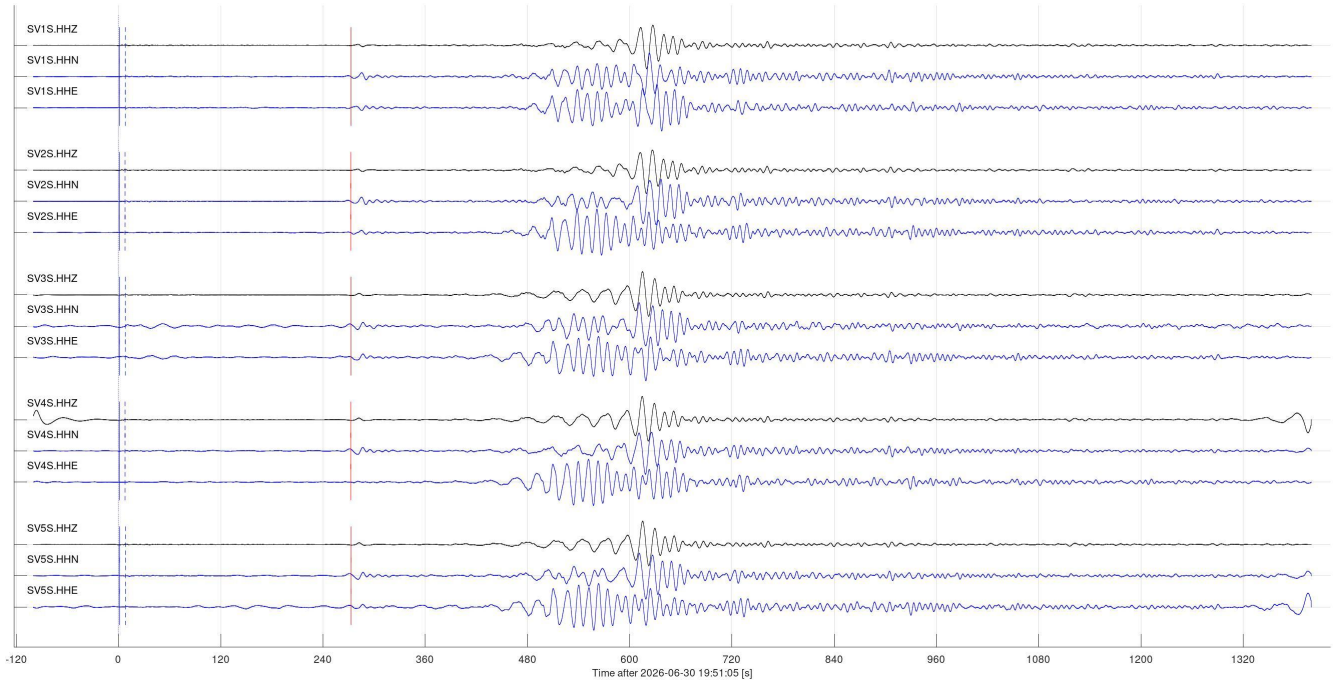


Figure 6, continued.

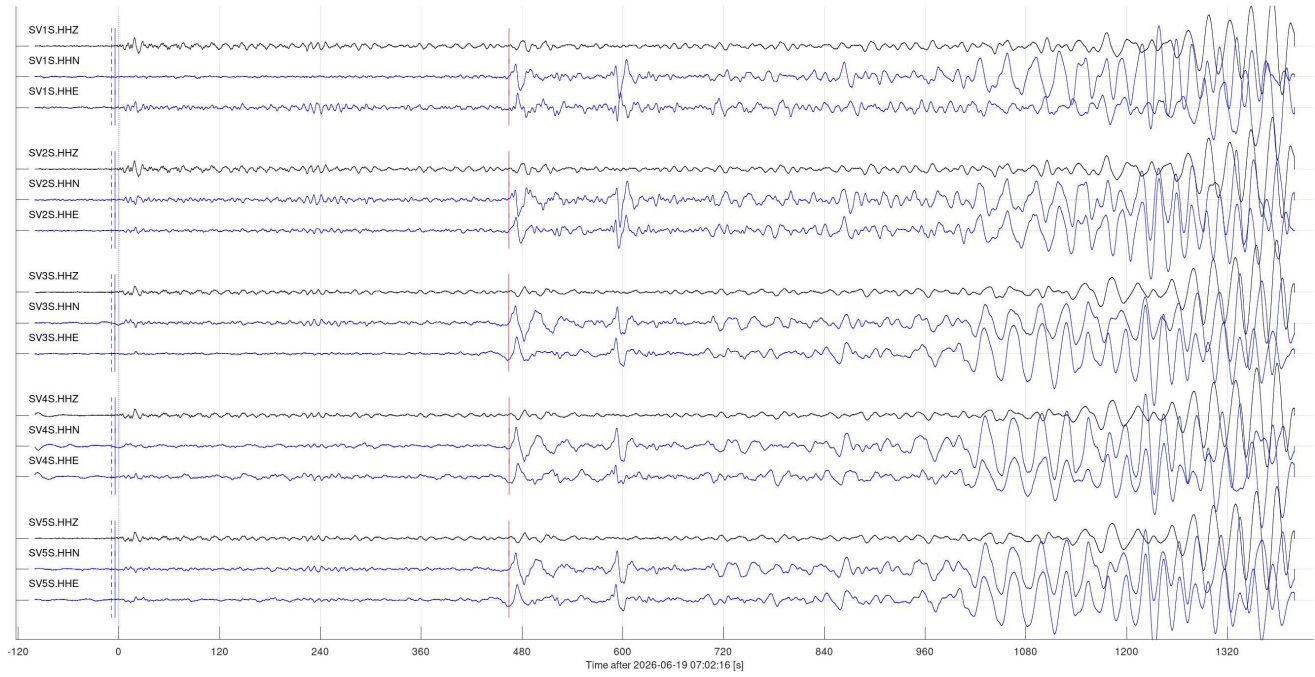
Event 45454 (us7000srjx, us): mww 6.1; 2026-06-08 18:00:28 22.79N,85.13W: 102 km WNW of Mantua, Cuba
Vp=10.00 km/s; Vs=5.77 km/s; baz=145.2 deg; dist=29.9 deg (3328.7 km); depth=26 km



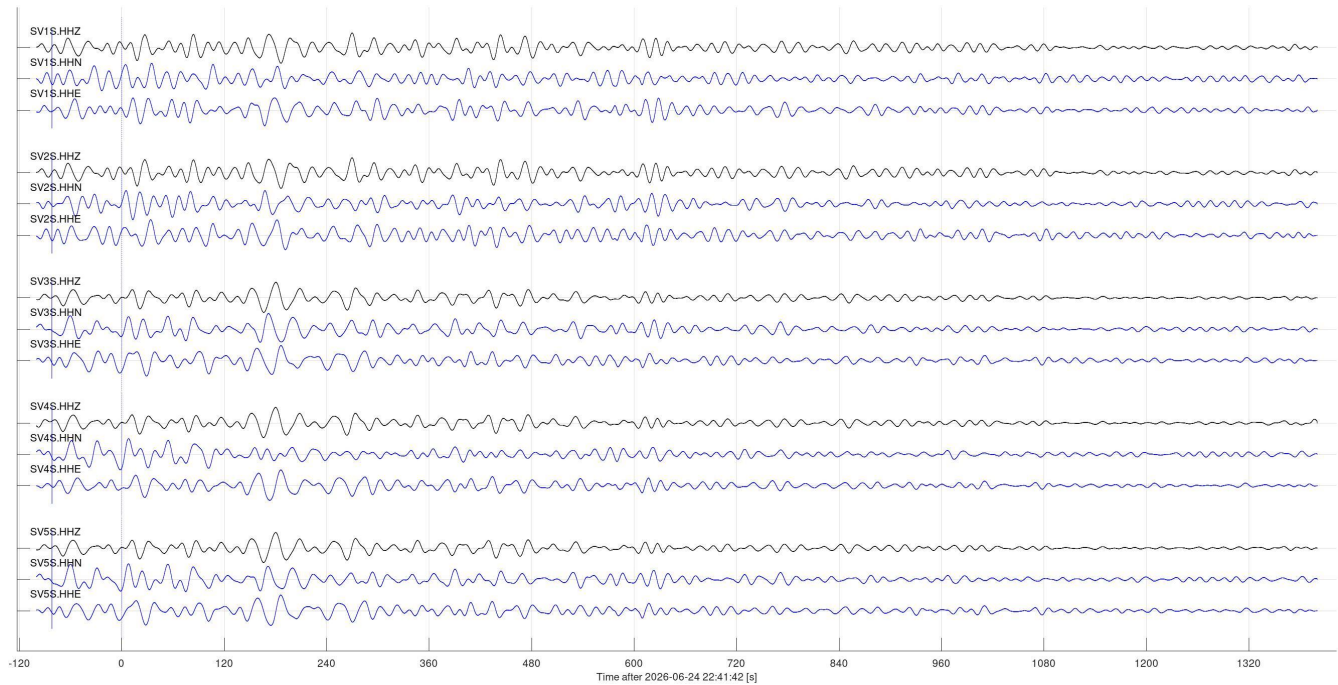
Event 46972 (us6000t99j, us): mww 6.0; 2026-06-30 19:45:40 24.82N,108.93W: 75 km SSW of El Progreso, Mexico
Vp=10.00 km/s; Vs=5.77 km/s; baz=192.8 deg; dist=24.7 deg (2749.3 km); depth=10 km



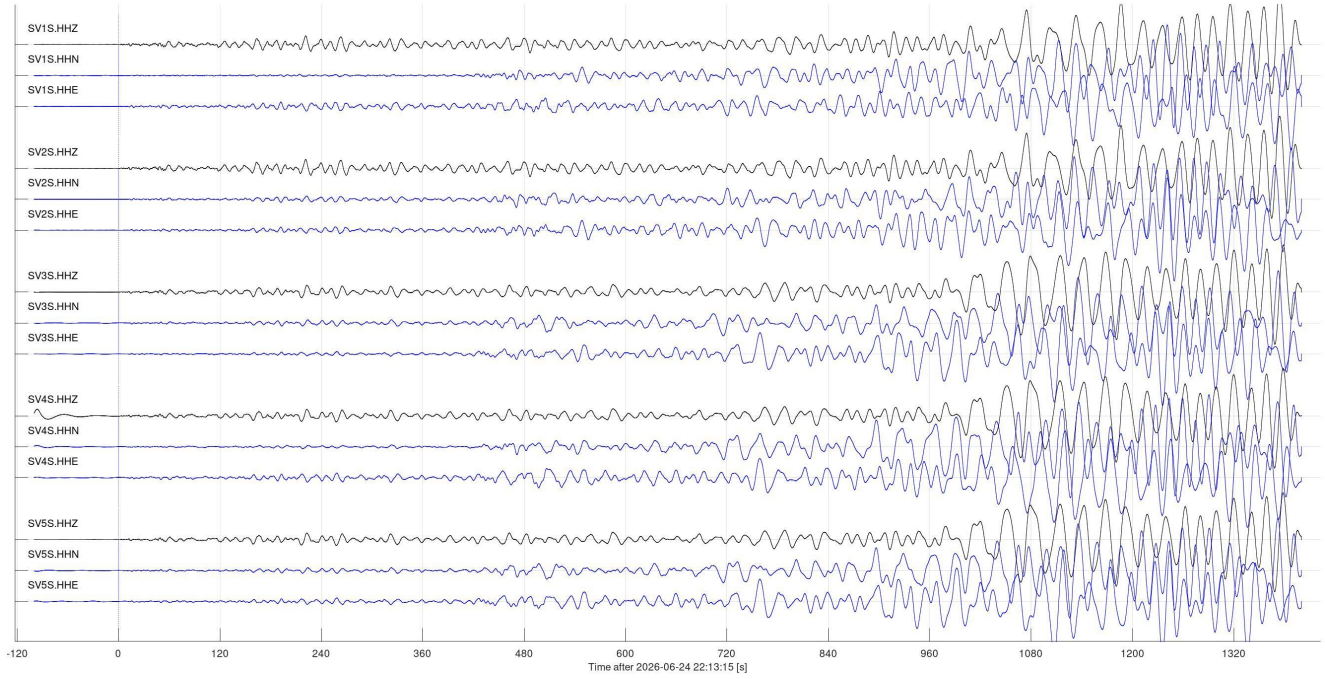
Event 46318 (us7000sui3, us): mww 6.6; 2026-06-19 06:52:32 52.79N,160.57E: 133 km ESE of Petropavlovsk-Kamchatsky, Russia
Vp=10.00 km/s; Vs=5.77 km/s; baz=313.5 deg; dist=56.3 deg (6279.9 km); depth=10 km



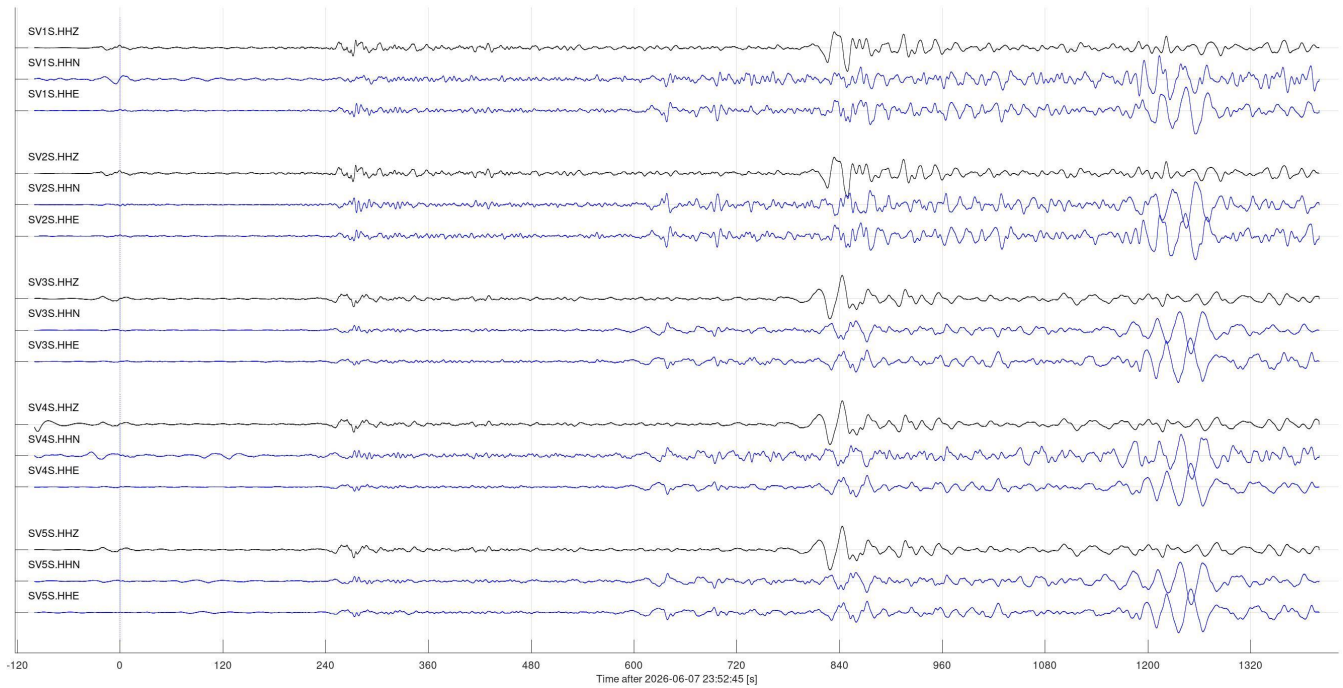
Event 46617 (us6000t7zq, us): mww 6.9; 2026-06-24 22:30:15 40.29N,142.10E: 30 km ENE of Kuji, Japan
Vp=10.00 km/s; Vs=5.77 km/s; baz=313.8 deg; dist=74.1 deg (8259.8 km); depth=51 km



Event 46618 (us6000t7zc, us): mww 7.2; 2026-06-24 22:04:33 10.44N,68.53W: 23 km SE of Yumare, Venezuela
Vp=10.00 km/s; Vs=5.77 km/s; baz=131.4 deg; dist=48.1 deg (5360.1 km); depth=20 km



Event 45380 (us7000srb1, us): mww 7.8; 2026-06-07 23:37:42 5.59N,125.05E: 26 km SW of Kablalan, Philippines
Vp=10.00 km/s; Vs=5.77 km/s; baz=307.3 deg; dist=111.3 deg (12413.6 km); depth=55 km



Regional events (class 2)

Four regional seismic events (class 2 in Table 2) were identified in the Aquistore stations in the reporting period (Figure 7). One of them (#48051 in Figure 7) was uncatalogued and possibly occurred in the area of potash mining near Esterhazy, SK.

Event 45325 (us7000sr5g, us): ml 2.9; 2026-06-06 22:22:34 45.67N, 112.24W: 15 km NNE of Twin Bridges, Montana
Vp=6.20 km/s; Vs=3.50 km/s; baz=244.6 deg; dist=7.1 deg (791.8 km); depth=8.57 km

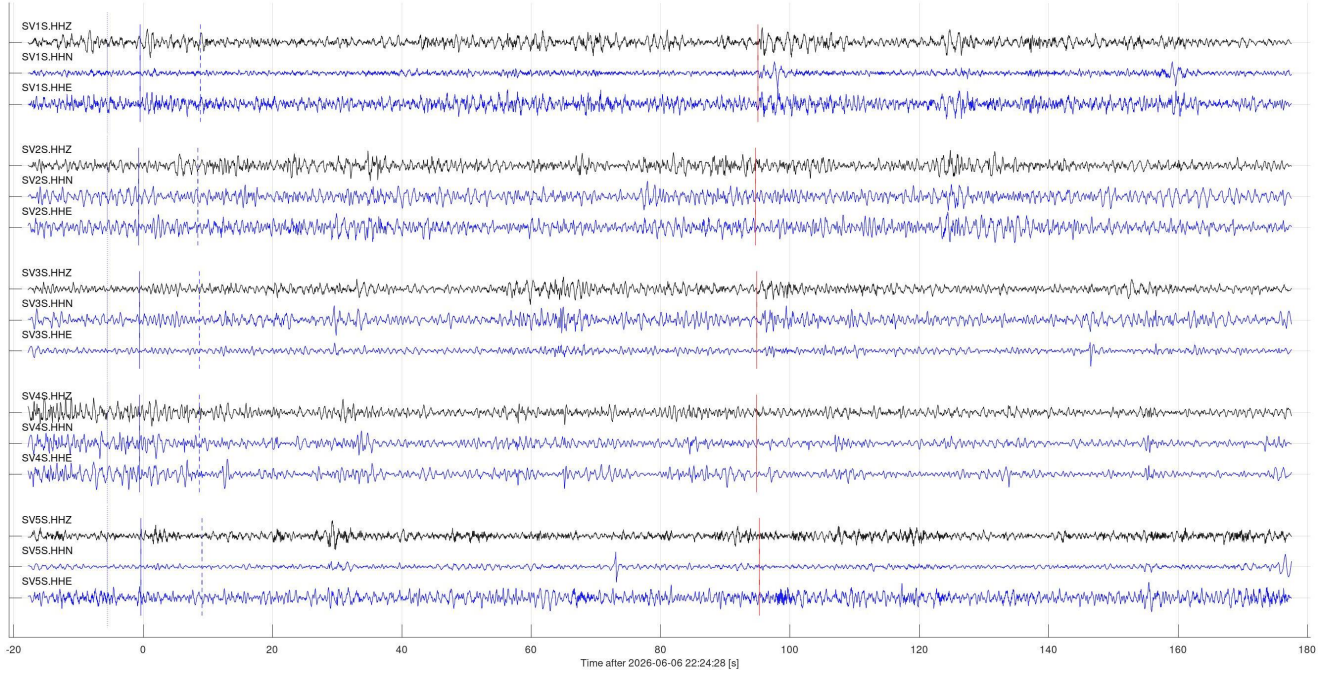
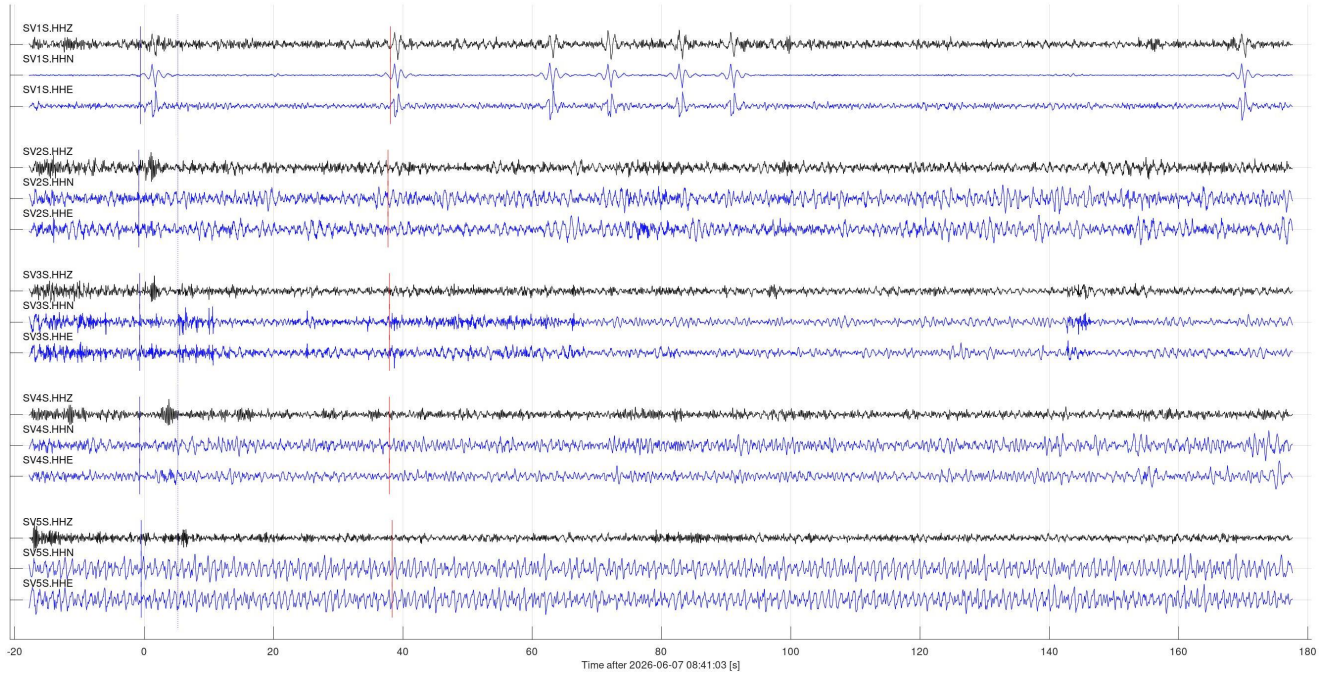
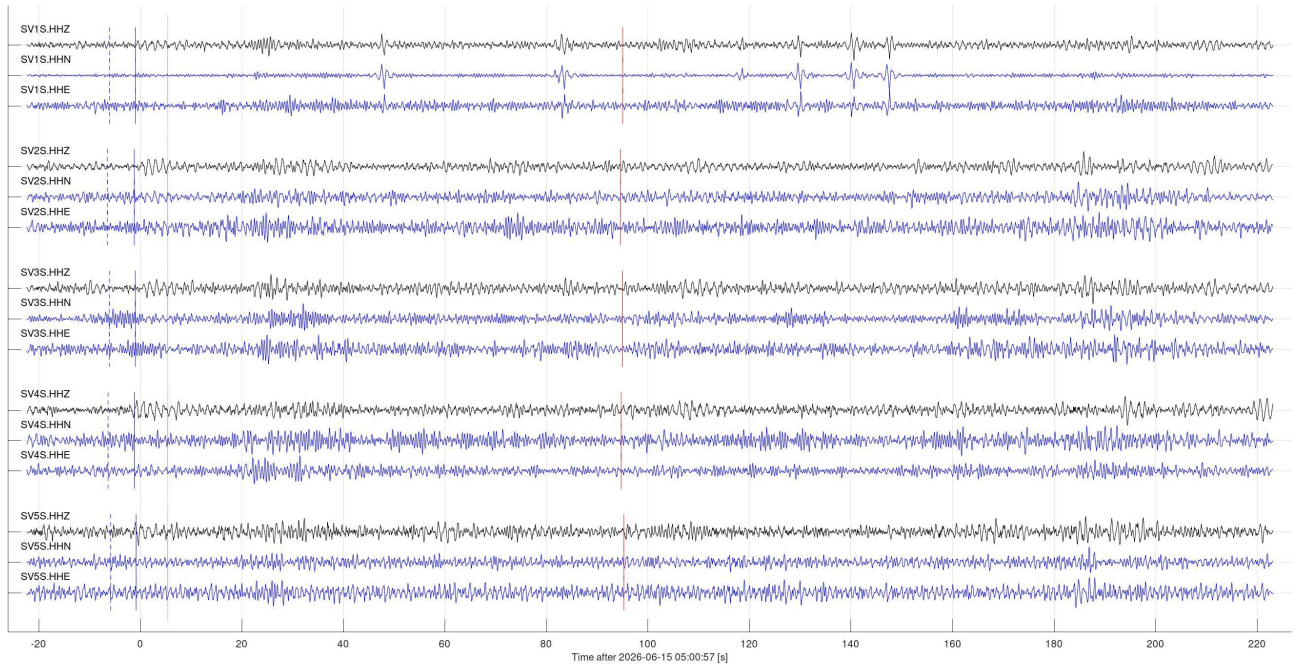


Figure 7. Seismic arrivals from events at regional distances. Lines and labels are as in Figure 6.

Event 45595 (mb90144568, mb): ml 2.5; 2026-06-07 08:39:22 45.67N,112.25W: 15 km NNE of Twin Bridges, Montana
Vp=6.20 km/s; Vs=3.50 km/s; baz=244.6 deg; dist=7.1 deg (792.1 km); depth=1.97 km



Event 45869 (uu80142421, uu): ml 3.1; 2026-06-15 04:58:54 41.56N,109.87W: 1 km NNW of Little America, Wyoming
Vp=6.20 km/s; Vs=3.50 km/s; baz=214.9 deg; dist=8.9 deg (995.1 km); depth=2.46 km



Event 48051 at 2026-06-07 20:09:57, 'Regional': Uncatalogued Regional event? Esterhazy area?
 $V_p=6.20$ km/s; $V_s=3.50$ km/s; $baz=90.0$ deg; $dist=1.6$ deg (180.0 km); $depth=0.00$ km

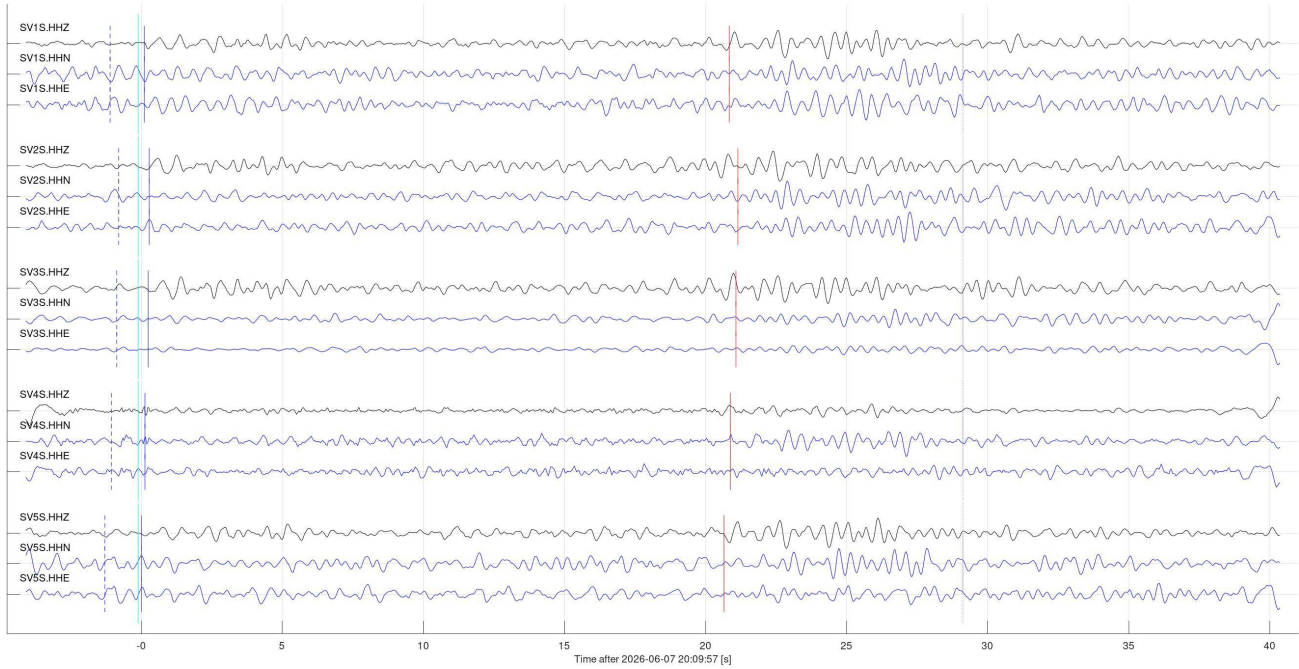


Figure 7, continued.

Local events (classes 3 and 4)

The following subsections summarize observations of event classes 3 and 4 in Table 2.

Possible mine blasts at the Estevan mine (class 3a)

Five events were identified as mine blasts in the area of Estevan coal mining (Figure 8). Similar to the events detected in May, these blasts appear to be weaker and located at greater distance from the seismic array than most events recorded in 2025.

Event 48054 at 2026-06-14 21:48:32, 'Local': Possible mine blast near Estevan, SK
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=24.0$ km; $\text{depth}=0.00$ km

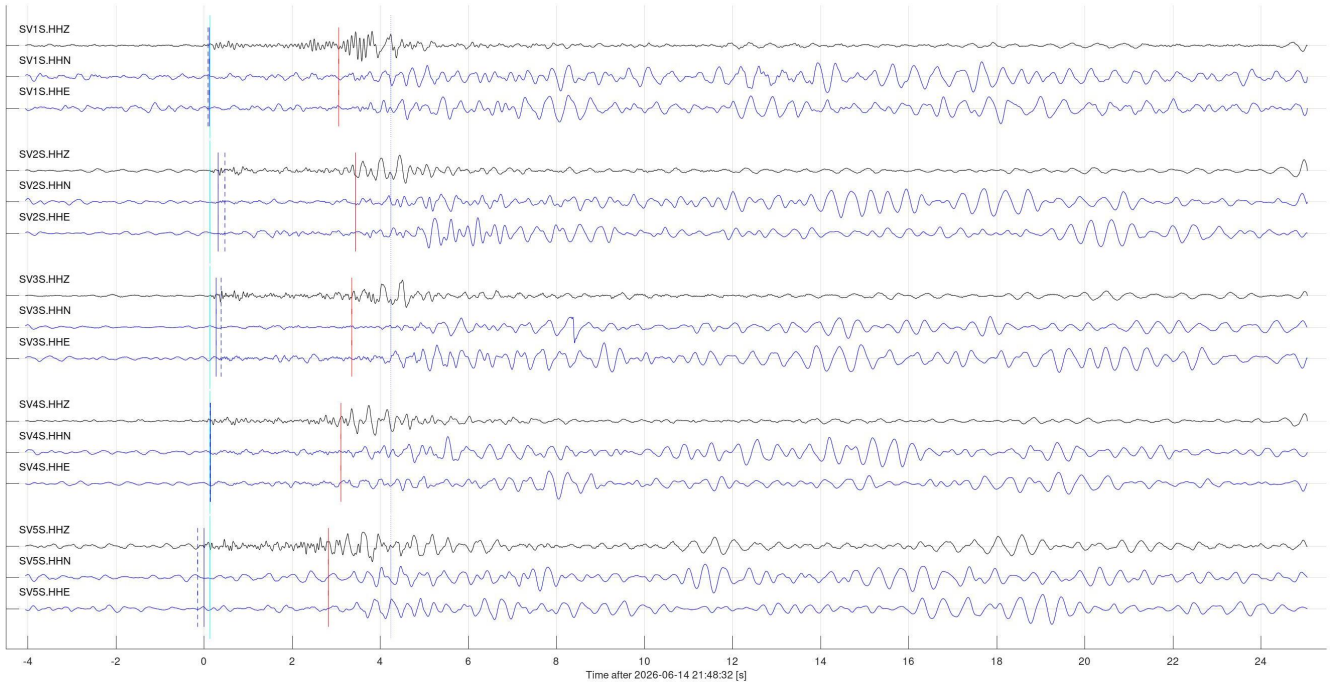


Figure 8. Seismic arrivals produced by mine blasts at the Estevan mine. Colours and labels are as in Figure 6.

Event 48055 at 2026-06-15 20:57:31, 'Local': Possible mine blast near Estevan, SK
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=18.0$ km; $\text{depth}=0.00$ km

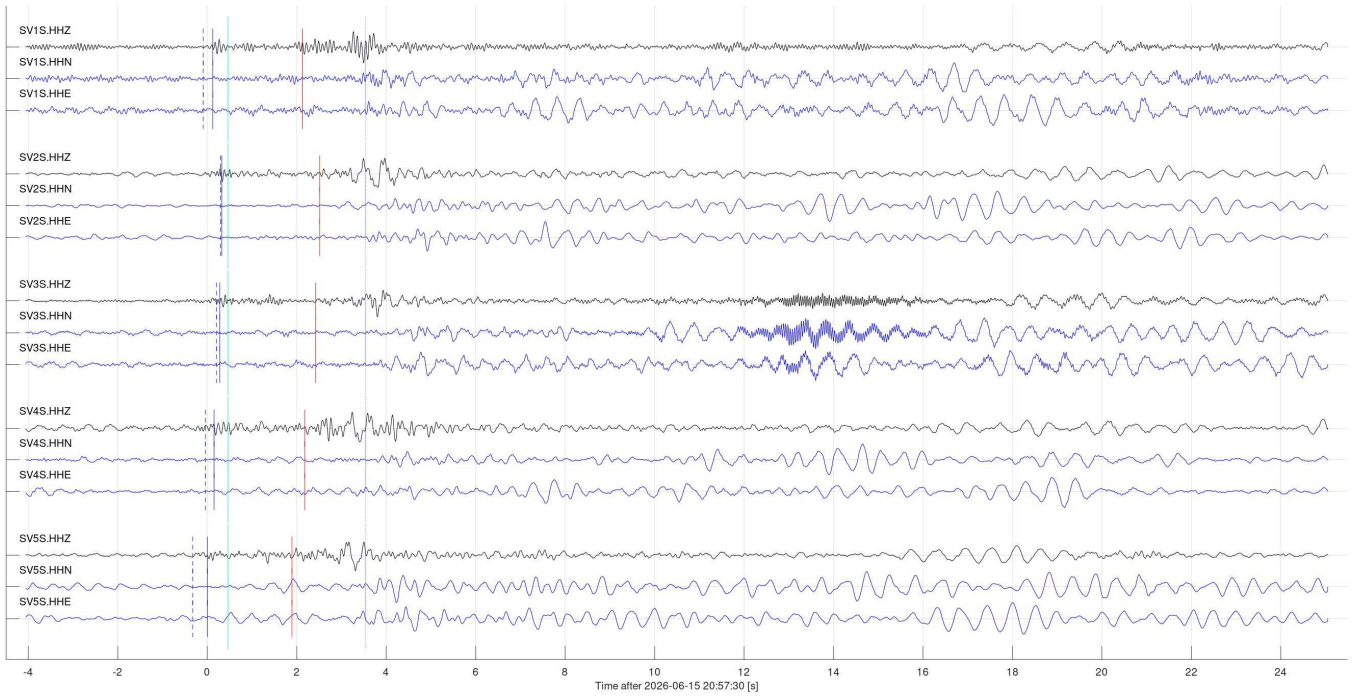
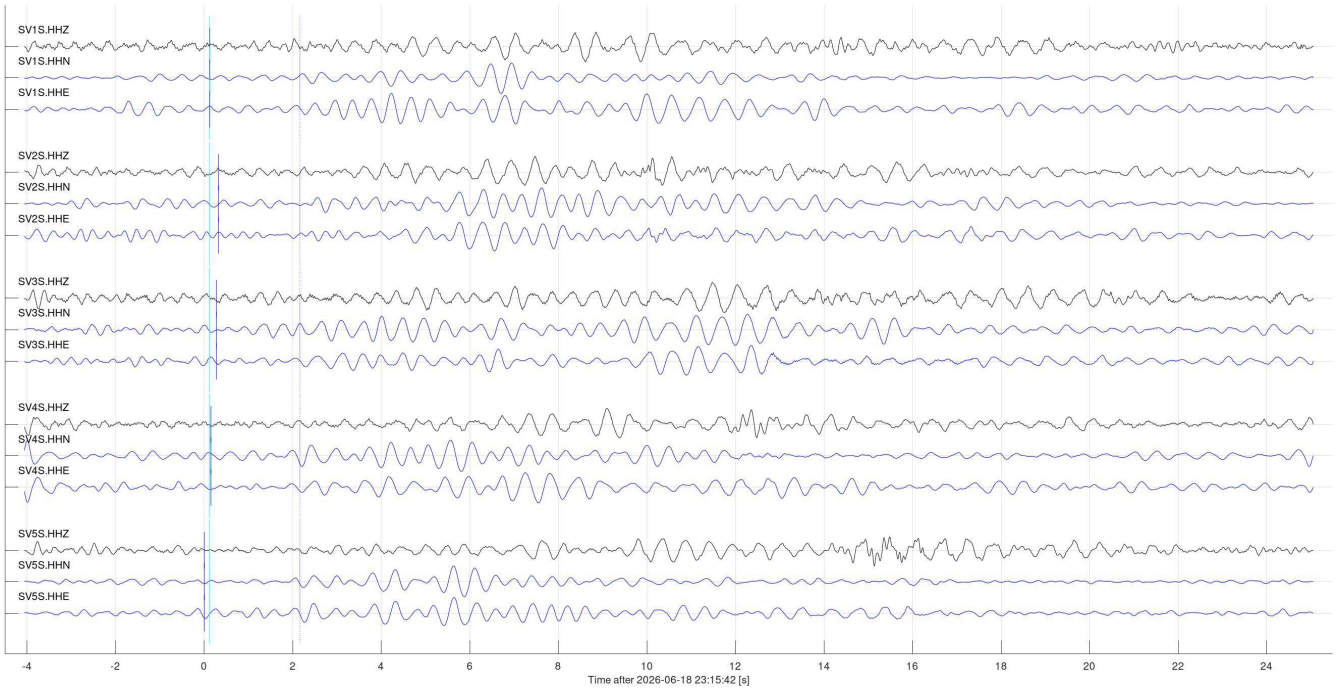
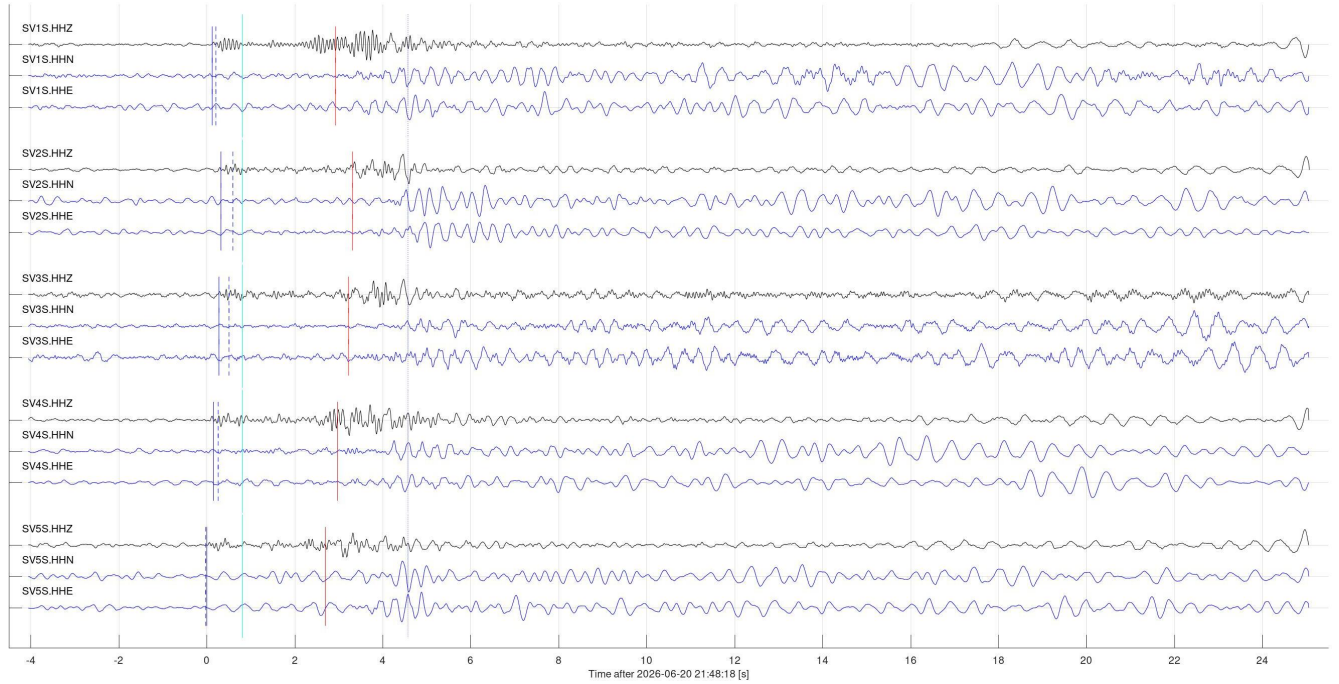


Figure 8, continued.

Event 48062 at 2026-06-18 23:15:42, 'Local': Possible mine blast near Estevan, SK? Not very sure
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=12.0$ km; $\text{depth}=0.00$ km



Event 48063 at 2026-06-20 21:48:18, 'Local': Possible mine blast near Estevan, SK
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=22.0$ km; $\text{depth}=0.00$ km



Event 48065 at 2026-06-25 21:07:35, 'Local': Possible mine blast near Estevan, SK?? Looks weaker
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=22.0$ km; $\text{depth}=0.00$ km

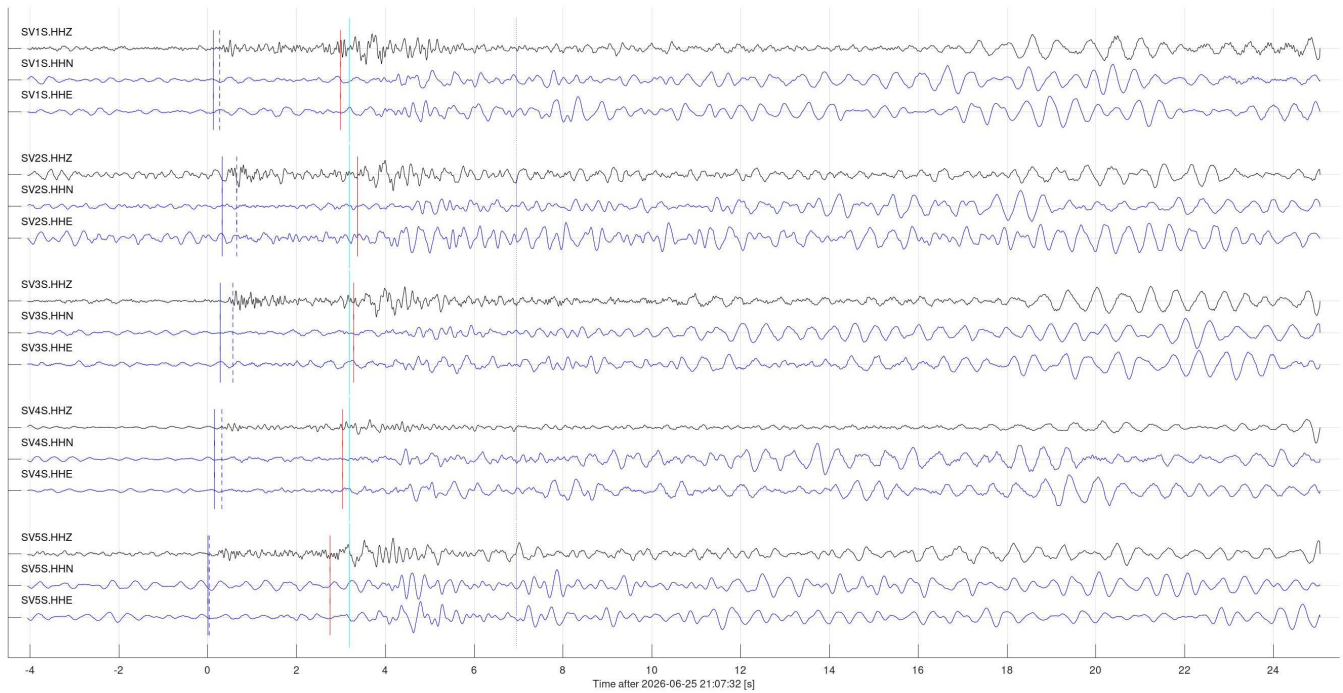
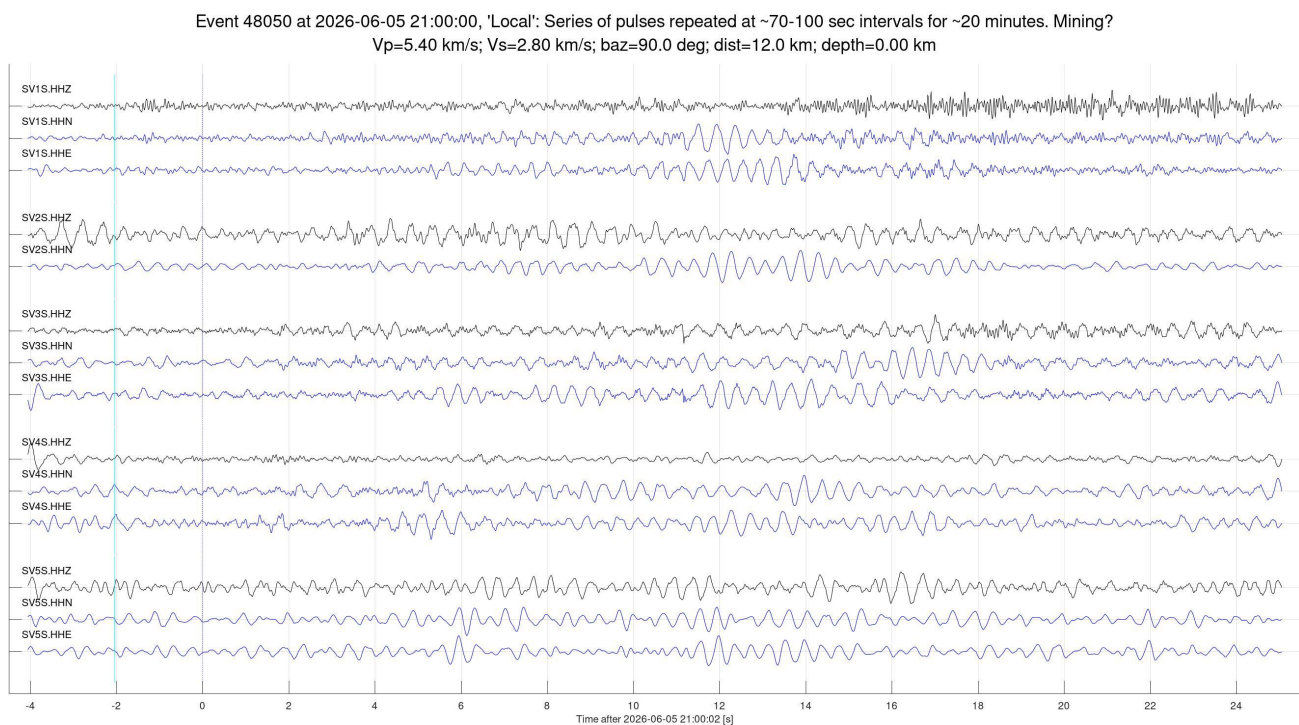
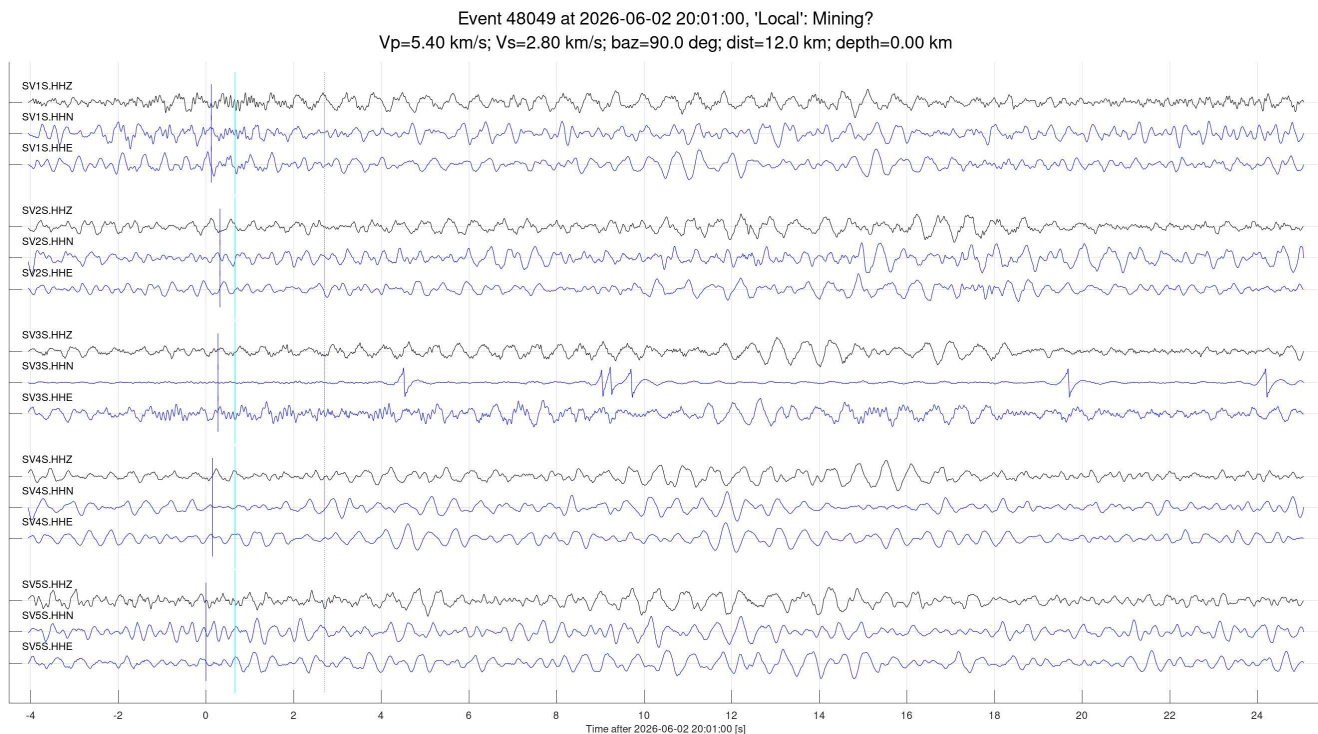


Figure 8, continued.

Events related to mining operations (class 3b)

Numerous mining- and industrial-operations related seismic events were observed in the area. Many such events may be produced by trains. Figure 9 illustrates five such events.



Event 48052 at 2026-06-12 19:04:34, 'Local': Mining? Such strikes are repeated for hours at 70-100 sec intervals
Vp=5.40 km/s; Vs=2.80 km/s; baz=90.0 deg; dist=12.0 km; depth=0.00 km

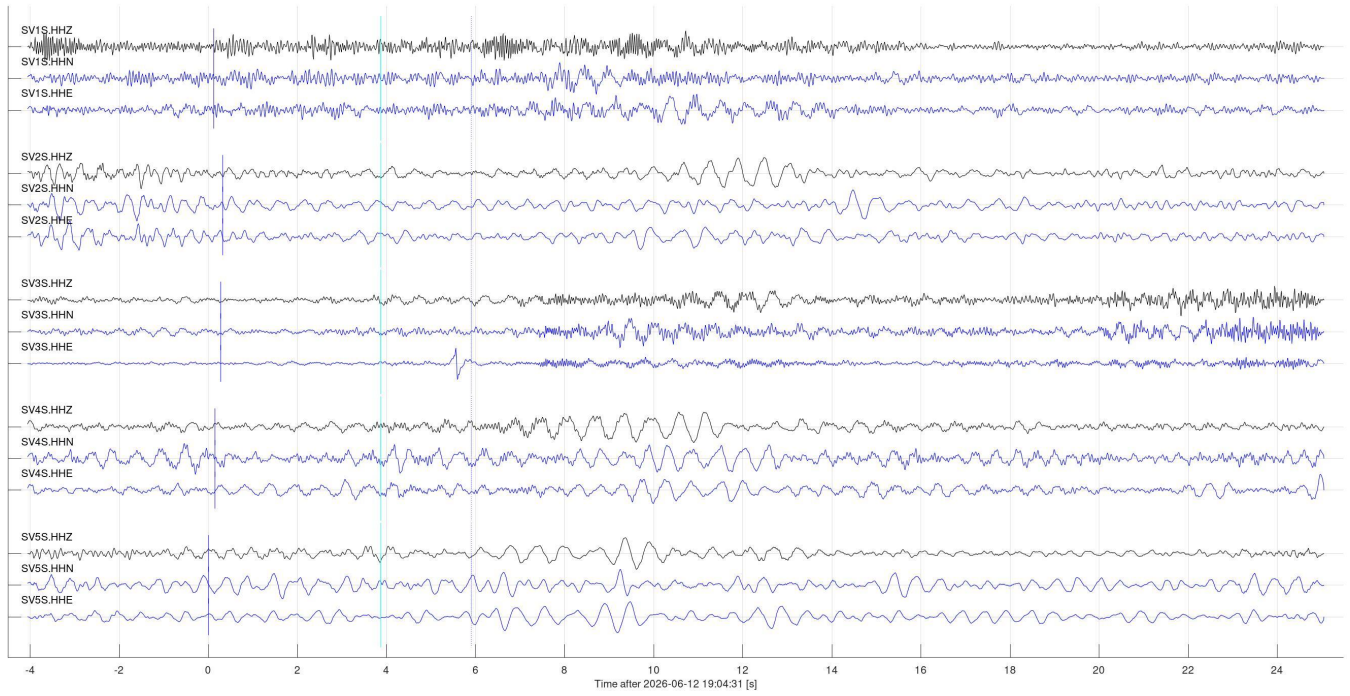


Figure 9, continued.

Event 48059 at 2026-06-17 20:21:51, 'Local': Mining?
Vp=5.40 km/s; Vs=2.80 km/s; baz=90.0 deg; dist=12.0 km; depth=0.00 km

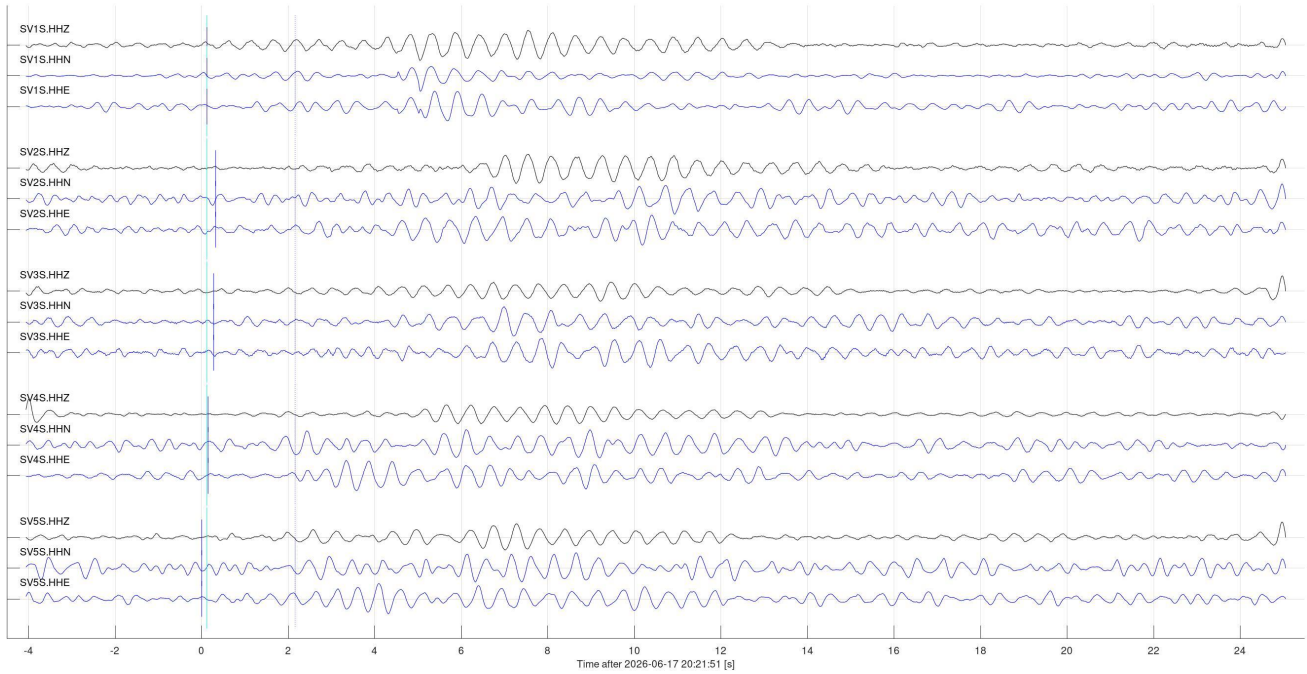


Figure 9, continued.

Event 48061 at 2026-06-18 18:58:06, 'Local': Mining? Another long series of heavy strikes at ~70-sec intervals
 $V_p=5.40$ km/s; $V_s=2.80$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=12.0$ km; $\text{depth}=0.00$ km

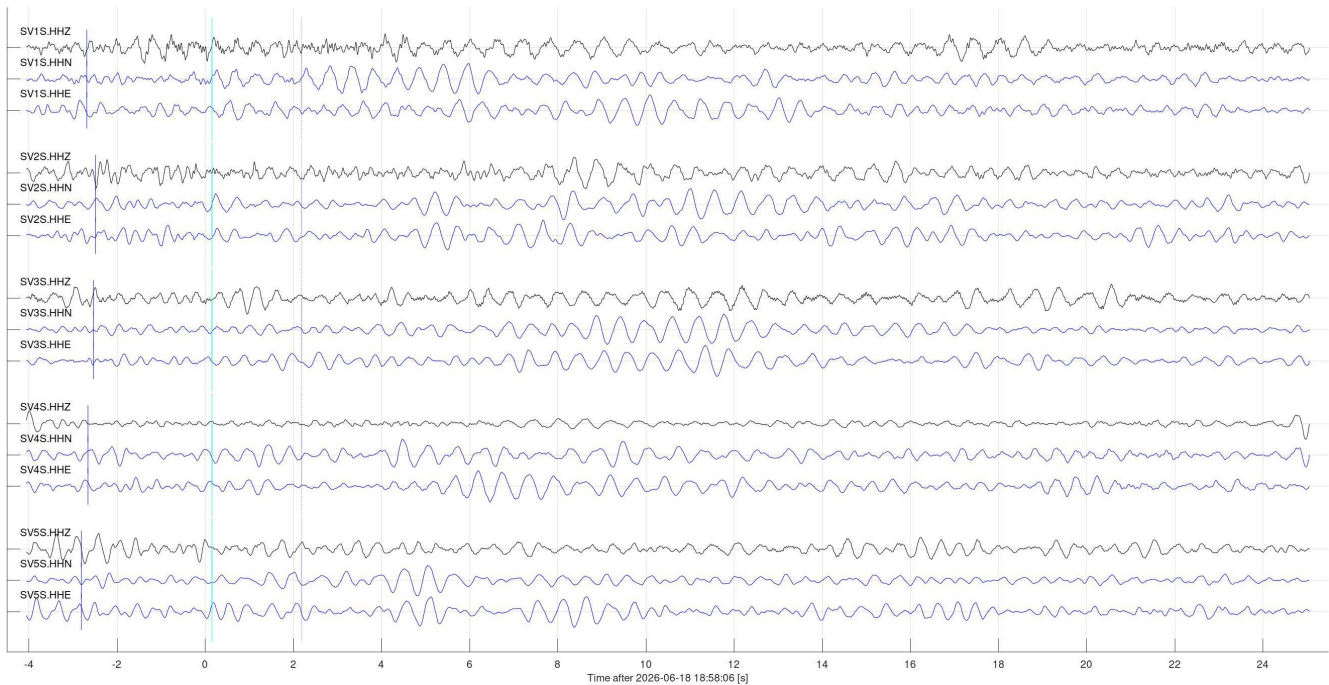


Figure 9, continued.

Events in array proximity (classes 4a and 4b)

Five seismic events were identified as possibly occurring in the proximity of the array (class 4a) (Figure 10). The first of these events looks typical of heavy machinery but the other four are notable by impulsive characters, strength, and large time moveouts between stations. The time moveouts suggest that the observed waves are S waves traveling in a very low near-surface velocity of about $0.2 - 0.3$ km/s. A more accurate velocity analysis and location are required. However, clearly, such strong time differences can only be observed from events originating in the near surface.

No events which could be related to class 4b (impulsive, higher-frequency, and deeper) were found.

Event 48053 at 2026-06-13 23:23:44, 'Near': Near? Seen at 3 stations SV1-3
 $V_p=2.40$ km/s; $V_s=1.20$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=2.0$ km; $\text{depth}=0.00$ km

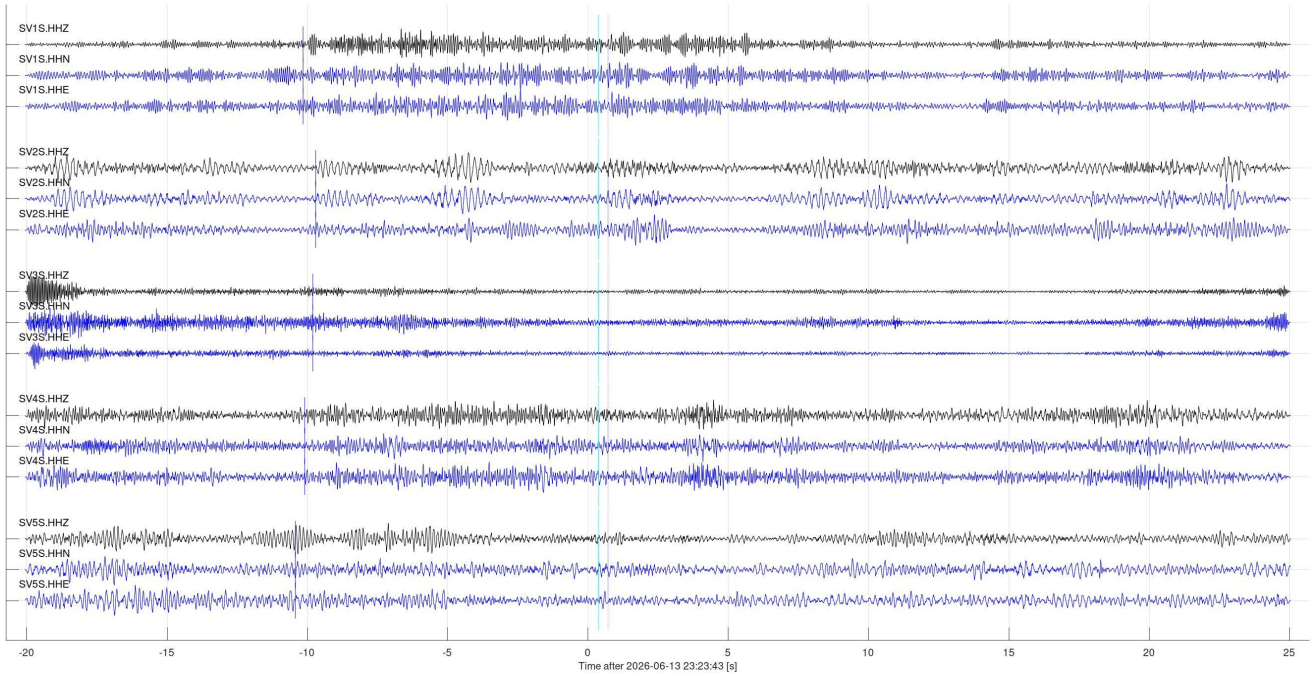


Figure 10. Possible events occurring near surface in the proximity of the array (class 4a in Table 2). Lines, colour bars and labels are as in the preceding figures. Seismic velocity estimates shown in the headers (particularly P-wave) are from an averaged model and require further analysis.

Event 48057 at 2026-06-16 20:59:43, 'Near': Near and very strong? At low near-surface velocity (~ 0.2 km/s)
 $V_p=2.40$ km/s; $V_s=1.20$ km/s; $\text{baz}=135.0$ deg; $\text{dist}=2.0$ km; $\text{depth}=0.00$ km

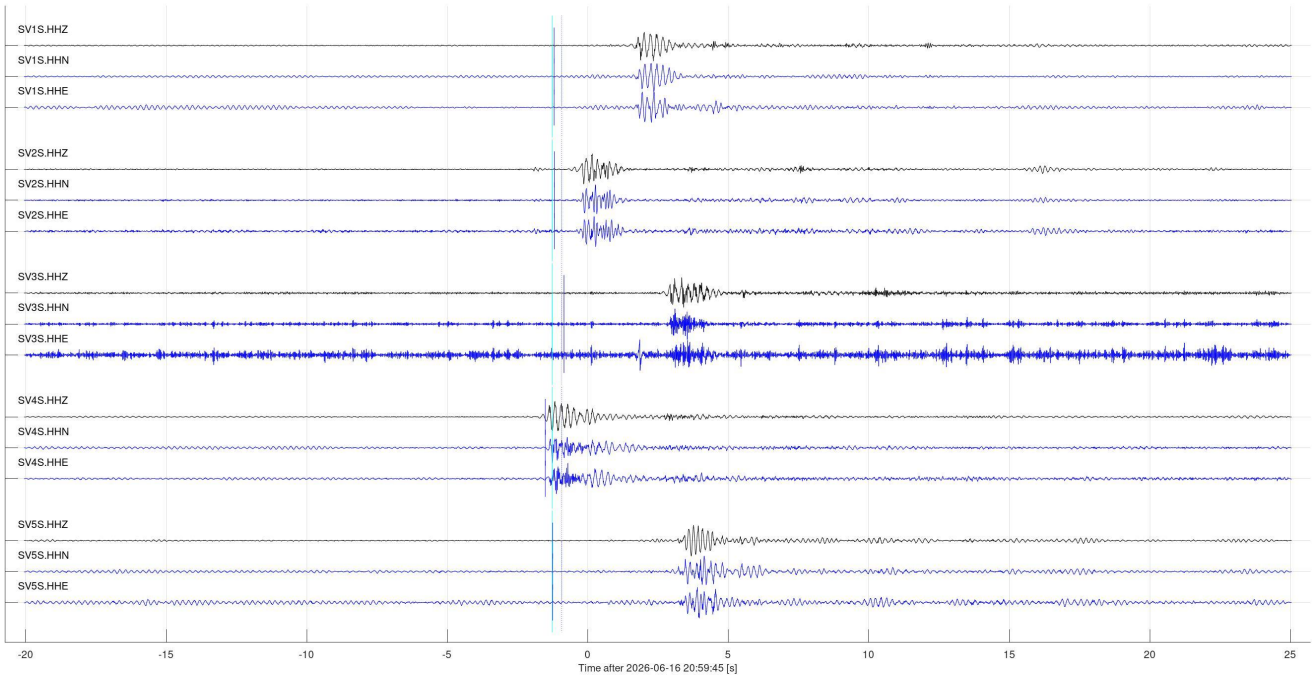


Figure 10, continued.

Event 48058 at 2026-06-16 22:46:30, 'Near': Near? Sharp and strong (at ~0.2 km/s velocity)
 $V_p=2.40$ km/s; $V_s=1.20$ km/s; $\text{baz}=180.0$ deg; $\text{dist}=2.0$ km; $\text{depth}=0.00$ km

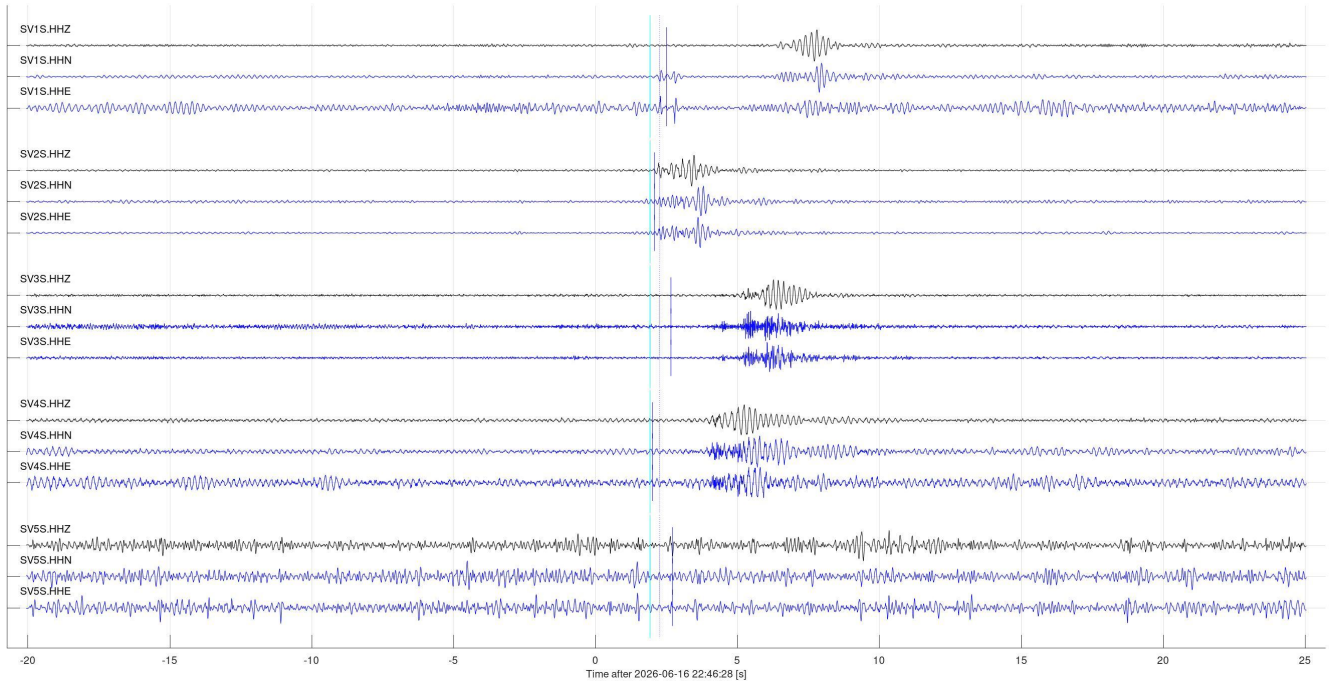


Figure 10, continued.

Event 48060 at 2026-06-17 23:23:10, 'Near': Near?
 $V_p=2.40$ km/s; $V_s=1.20$ km/s; $\text{baz}=90.0$ deg; $\text{dist}=2.0$ km; $\text{depth}=0.00$ km

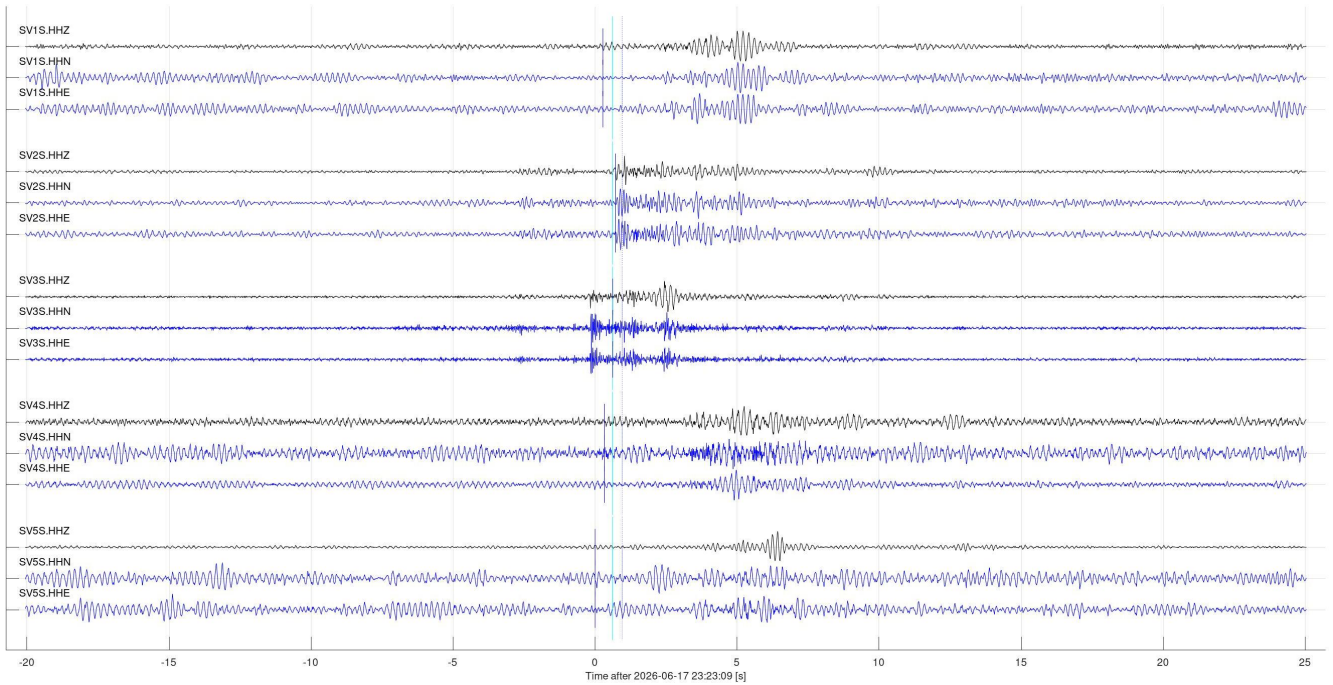


Figure 10, continued.

Event 48064 at 2026-06-23 22:51:57, 'Near': Near, low velocity (~0.2 km/s)
 $V_p=2.40$ km/s; $V_s=1.20$ km/s; $\text{baz}=315.0$ deg; $\text{dist}=2.0$ km; $\text{depth}=0.00$ km

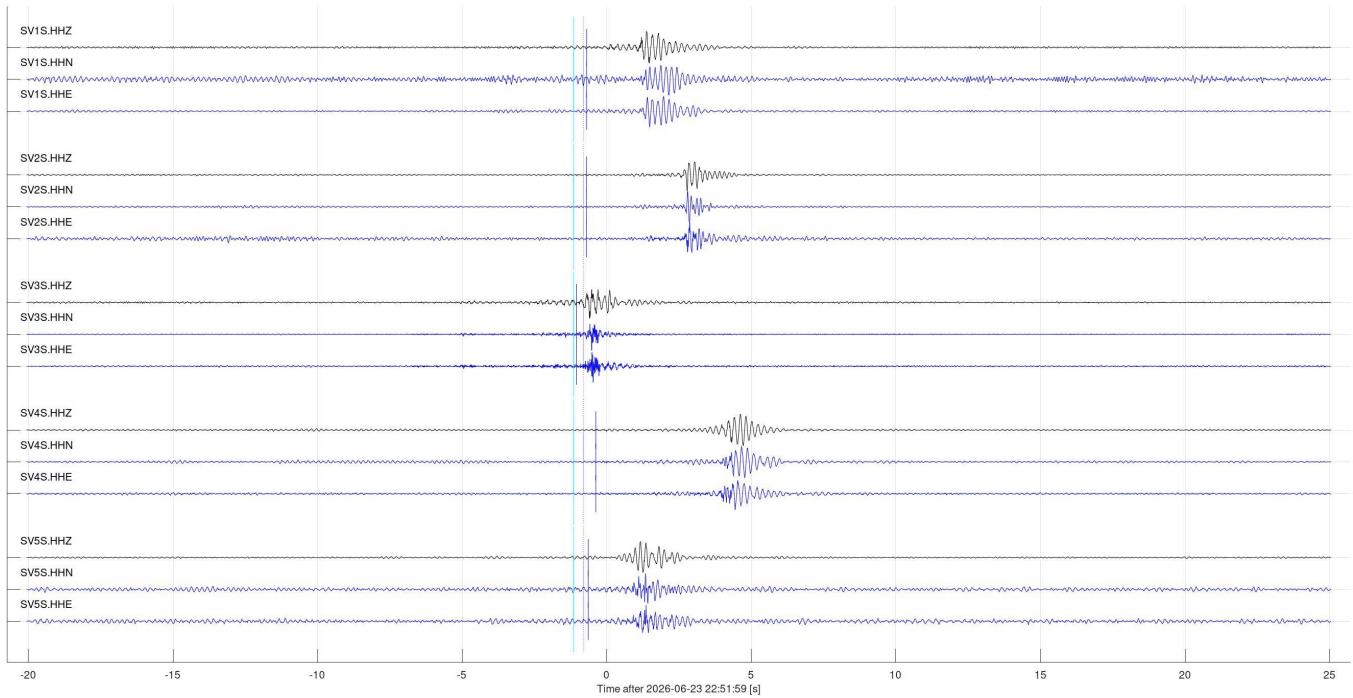


Figure 10, continued.

5. SEGY files

Event time windows are provided in SEGY format in the attached zipped archive, separately for teleseismic and regional event detections. Subdirectory names and file naming convention and header formats are described in our reports for August and October 2024.

6. Conclusions and recommendations

Seismic array operation:

- Seismic data retrieval from all stations was nearly 100%
- Station SV5S was offline most of June and there were some interruptions of internet communications. However, these interruptions did not affect data completeness or quality.
- Station SV3S requires manual balancing of the sensor. Its records contain many spikes. An upgrade of the sensor to post-hole triillum is recommended (albeit not urgent). This station also appears to have the weakest level of power supply.

- Intermittently, records from station SV4S also contain significant numbers of spikes.

Data and observations:

- 33 teleseismic events, four regional events, and five mine blasts were detected in June 2026.
- Numerous local events were observed, likely related to mining operations or freight trains. These events were not catalogued or analyzed in detail.
- Five events occurring near surface in the vicinity of the array were noted. In particular, events 48057, 48058, 45060, and 48064 (in our database) are strong, impulsive, and potentially interesting for detailed research.
- No events occurring at the reservoir level were identified.