

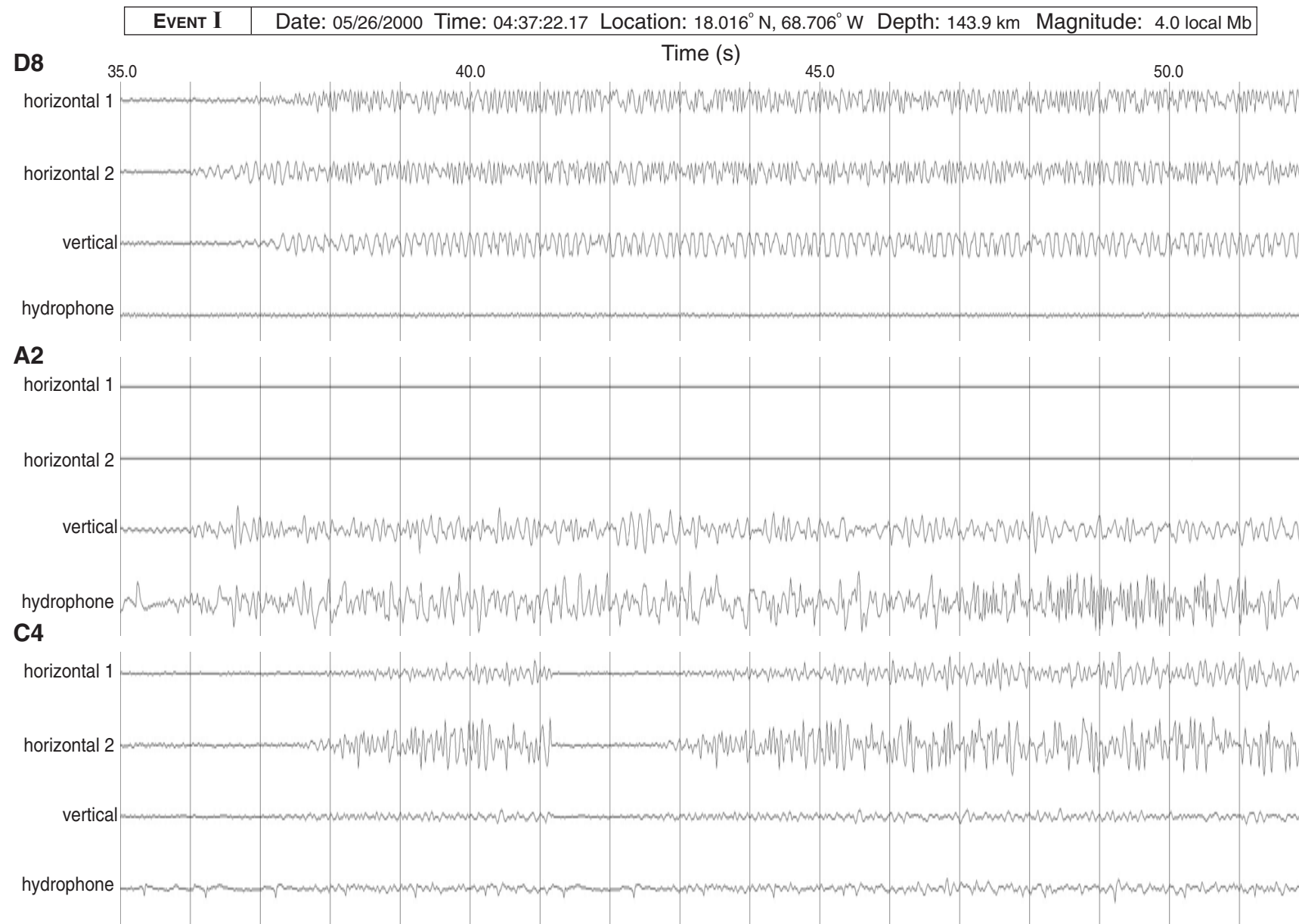
# APPENDIX A:

## Plots for the Comparison of Four Events Across Stations

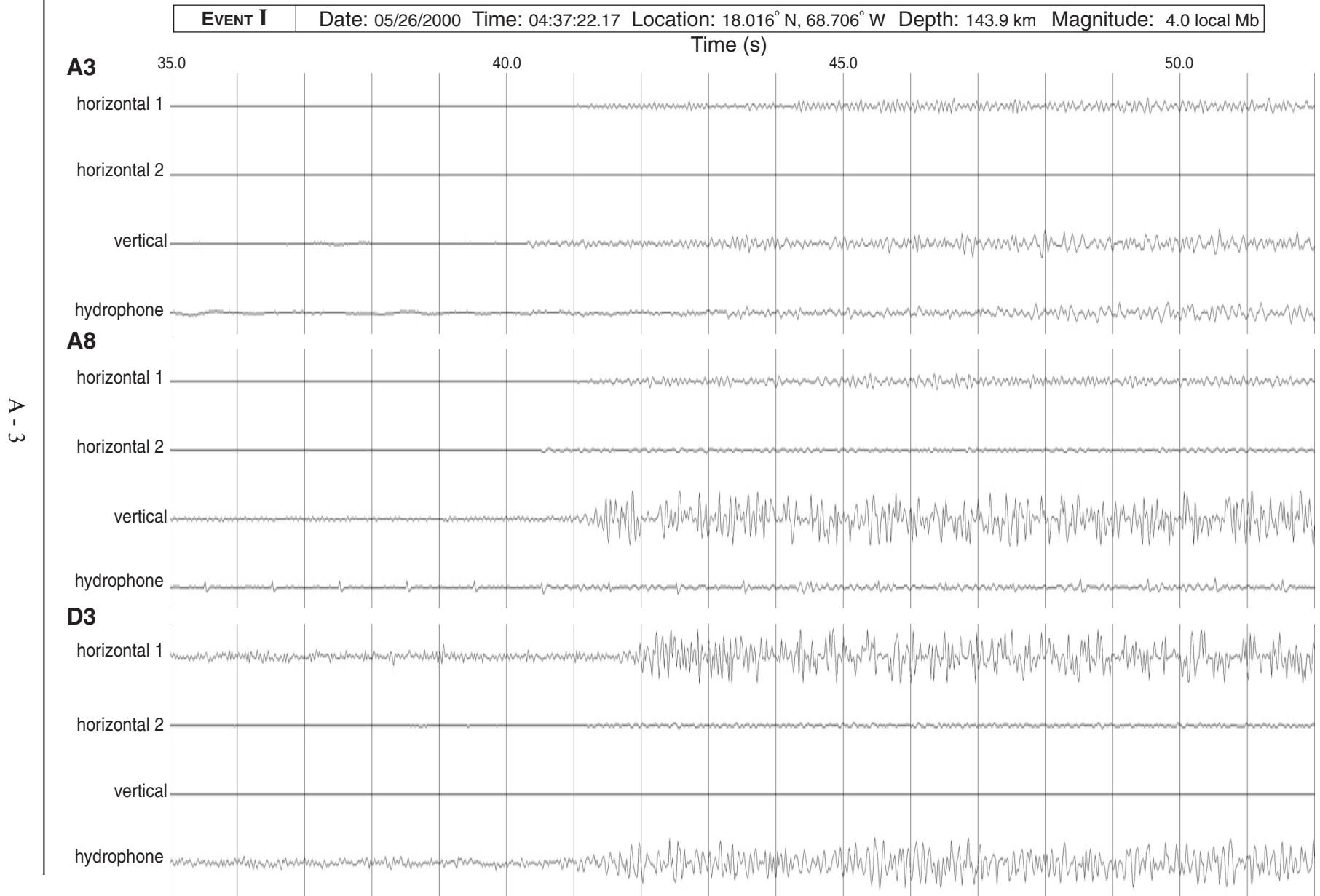
**Table A1.** Events used to compare arrivals across stations.

<b>Event No.</b>	<b>Date</b>	<b>Time (UTC)</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Depth (km)</b>	<b>Magnitude</b>
I	5/26/2000	04:37:22.17	18° 0.98' N	68° 42.36' W	143.9	4.0 local Mb
II	6/2/2000	08:32:26.16	18° 15.88' N	67° 13.50' W	1.7	3.3 local Mb
III	6/1/2000	21:02:53.83	19° 32.76' N	65° 02.88' W	33.0	4.5 Mb
IV	5/12/2000	18:43:23.82	22° 59.40' S	66° 44.40' W	243.0	7.20 Mw

**Figure A1a:** Event I, one of the subset of three local events, recorded at stations D8, A2, and C4. Time is seconds after start of event.

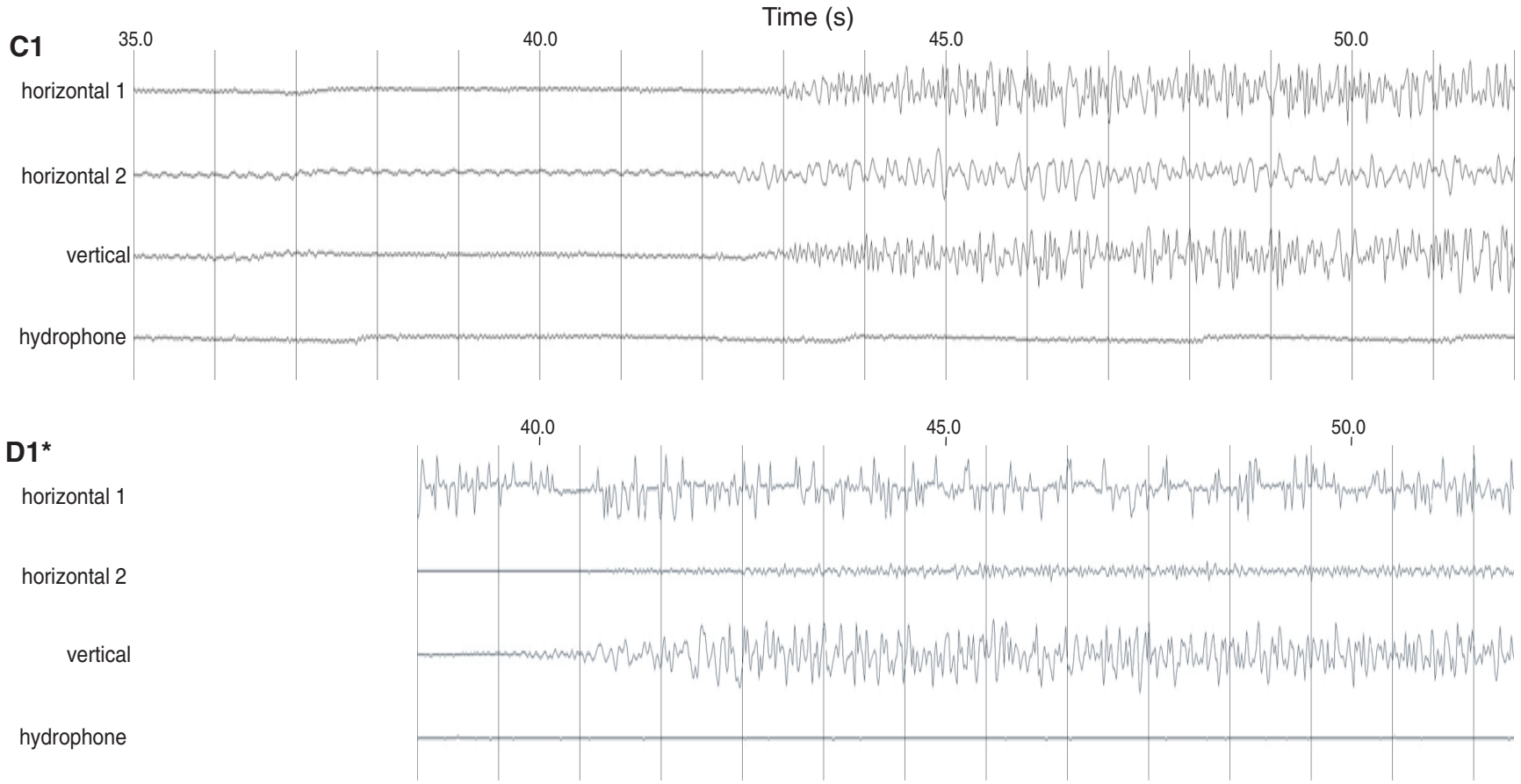


**Figure A1b:** Event I, one of the subset of three local events, recorded at stations A3, A8, and D3. Time is seconds after start of event.



**Figure A1c:** Event I, one of the subset of three local events, recorded at stations C1 and D1. Time is seconds after start of event.

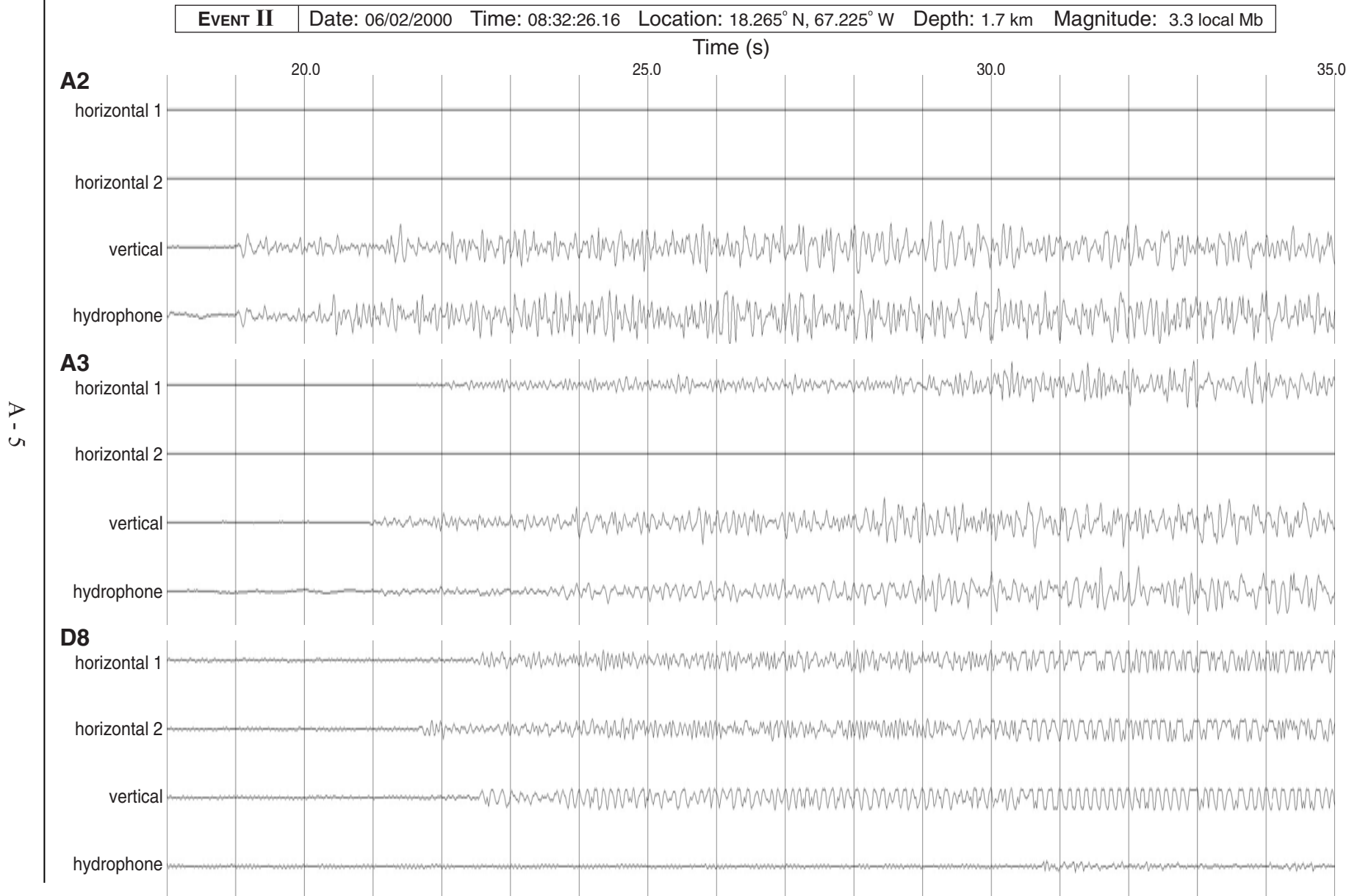
<b>EVENT I</b>	Date: 05/26/2000	Time: 04:37:22.17	Location: 18.016° N, 68.706° W	Depth: 143.9 km	Magnitude: 4.0 local Mb
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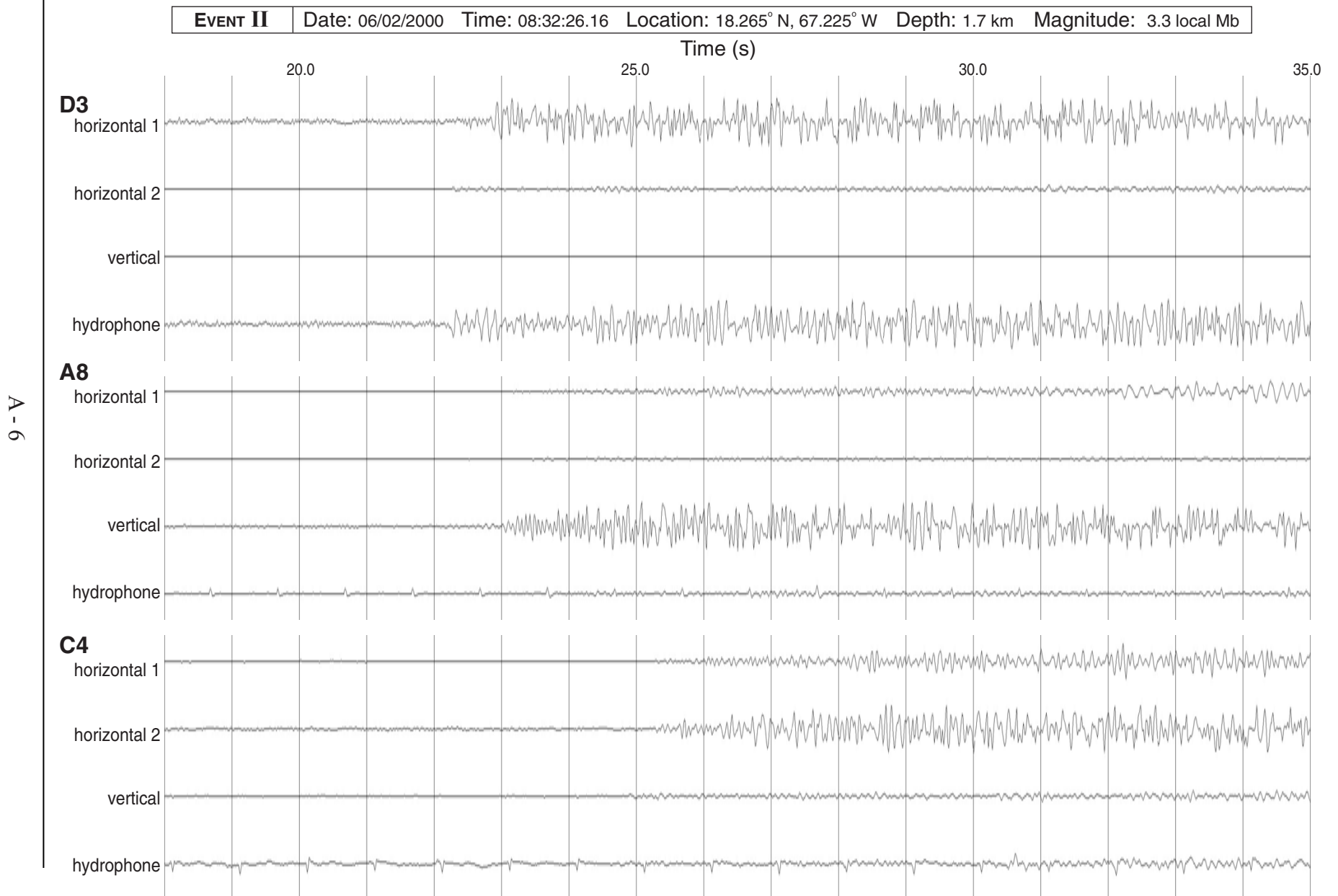
4 - 4

\*approximate time

**Figure A2a:** Event II, one of the subset of three local events, recorded at stations A2, A3, and D8. Time is seconds after start of event.

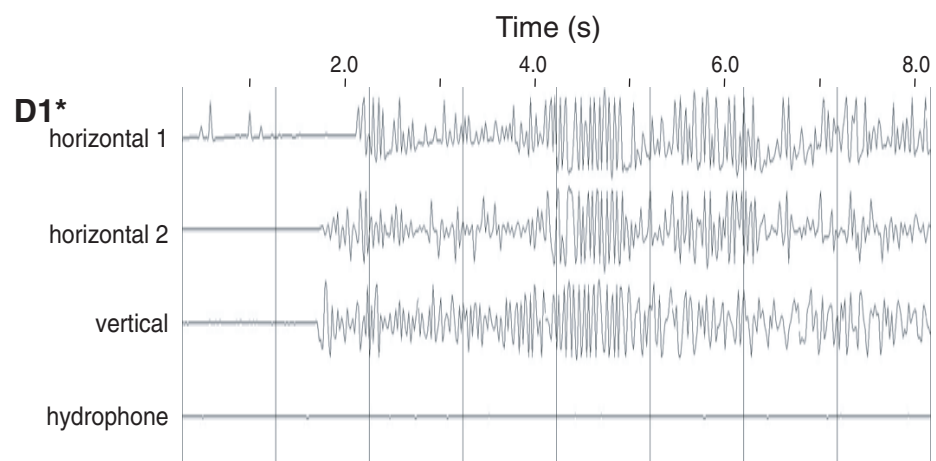


**Figure A2b:** Event II, one of the subset of three local events, recorded at stations D3, A8, and C4. Time is seconds after start of event.



**Figure A2c:** Event II, one of the subset of three local events, recorded at station D1. Time is seconds after start of event.

<b>EVENT II</b>	Date: 06/02/2000	Time: 08:32:26.16	Location: 18.265° N, 67.225° W	Depth: 1.7 km	Magnitude: 3.3 local Mb
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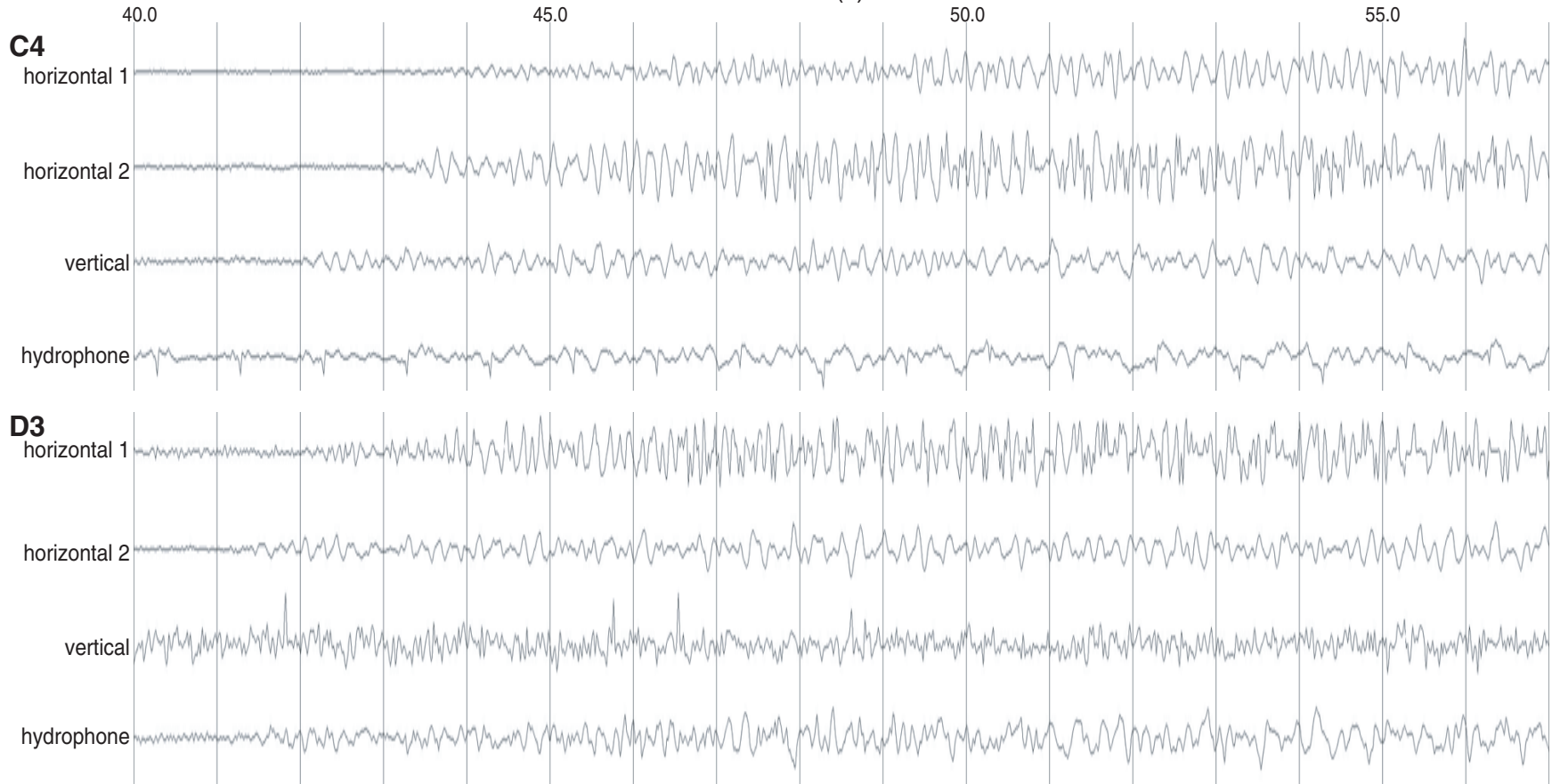


\*approximate time using an average crustal velocity of 5 km/s

**Figure A3a:** Event III, one of the subset of three local events, recorded at stations C4 and D3. Time is seconds after start of event.

<b>EVENT III</b>	Date: 06/01/2000	Time: 21:02:53.83	Location: 19.546° N, 65.048° W	Depth: 33 km	Magnitude: 4.5Mb
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Time (s)

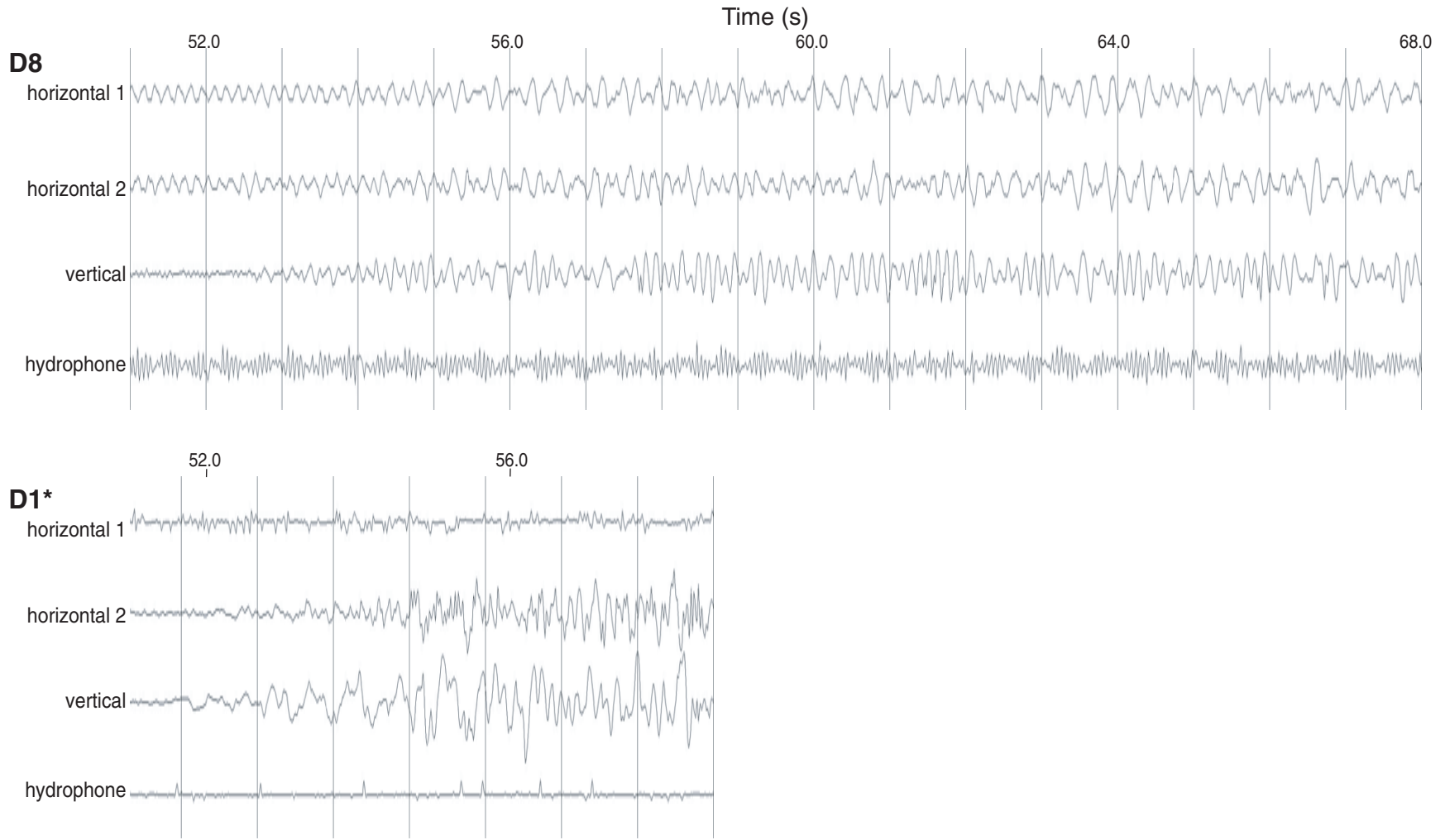


8 - V



**Figure A3b:** Event III, one of the subset of three local events, recorded at stations D8 and D1. Time is seconds after start of event.

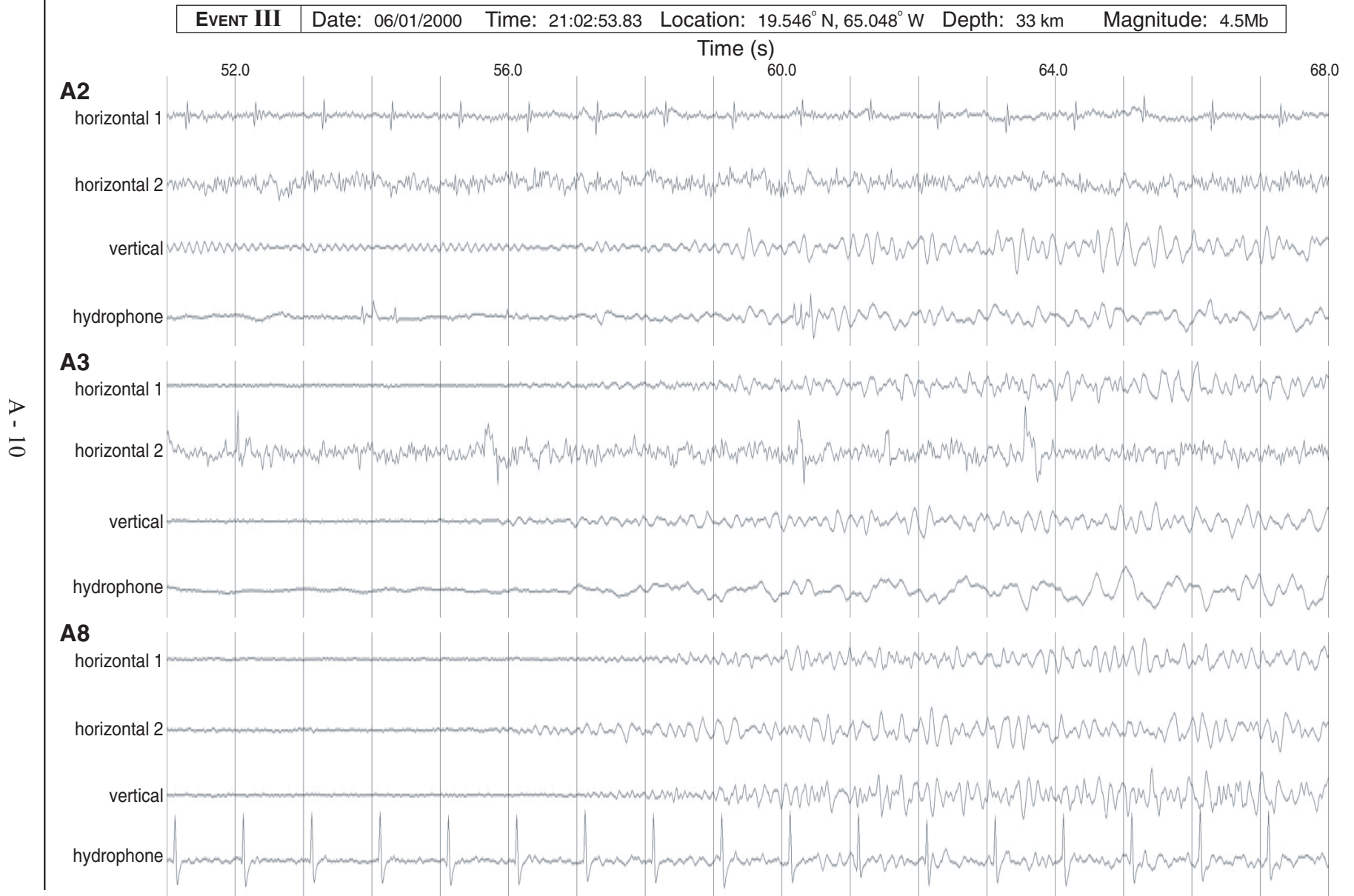
<b>EVENT III</b>	Date: 06/01/2000	Time: 21:02:53.83	Location: 19.546° N, 65.048° W	Depth: 33 km	Magnitude: 4.5Mb
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6 - V

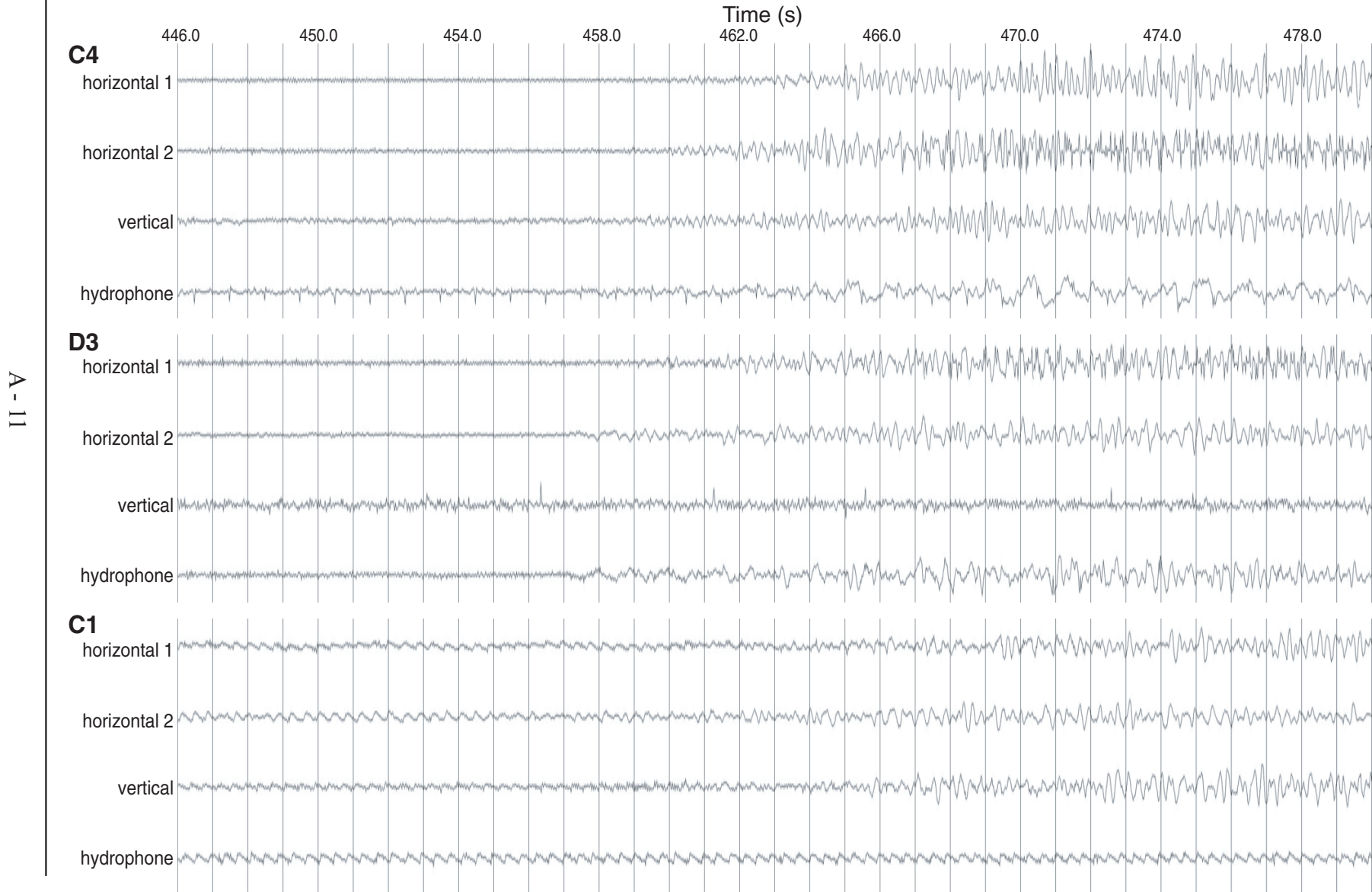
\*approximate time

**Figure A3c:** Event III, one of the subset of three local events, recorded at stations A2, A3, and A8. Time is seconds after start of event.



**Figure A4a:** Event IV, the teleseismic event, at stations C4, D3, and C1. Time is seconds after start of the event.

<b>EVENT IV</b>	Date: 05/12/2000	Time: 18:43:23.82	Location: 22.99° S, 66.74° W	Depth: 243 km	Magnitude: 7.2 Mw
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**Figure A4b:** Event IV, the teleseismic event, at stations A2, A3, and A8. Time is seconds after start of the event.

<b>EVENT IV</b>	Date: 05/12/2000	Time: 18:43:23.82	Location: 22.99° S, 66.74° W	Depth: 243 km	Magnitude: 7.2 Mw
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Time (s)

446.0      450.0      454.0      458.0      462.0      466.0      470.0      474.0      478.0

**A2**

horizontal 1

horizontal 2

vertical

hydrophone

**A3**

horizontal 1

horizontal 2

vertical

hydrophone

**A8**

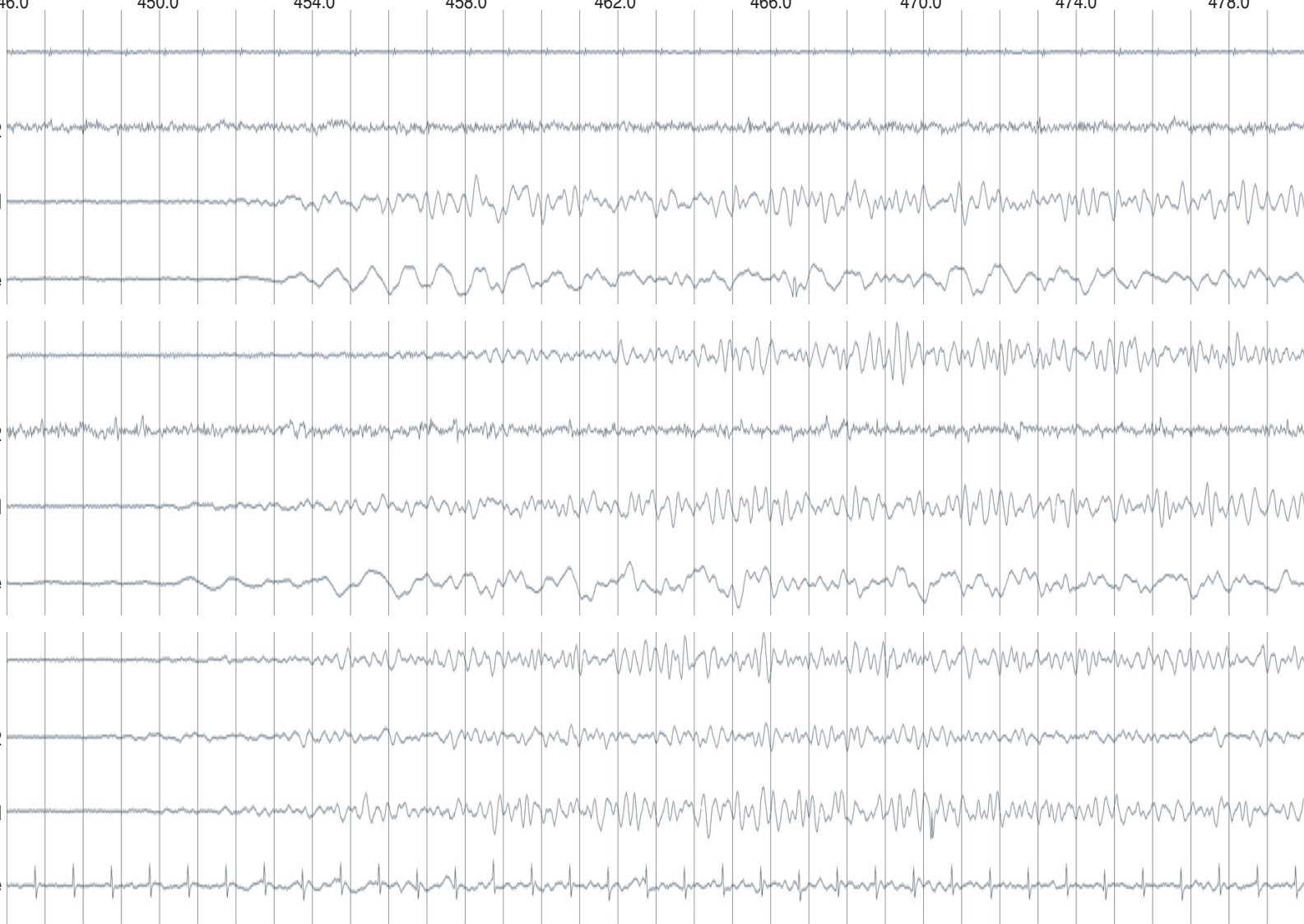
horizontal 1

horizontal 2

vertical

hydrophone

A - 12

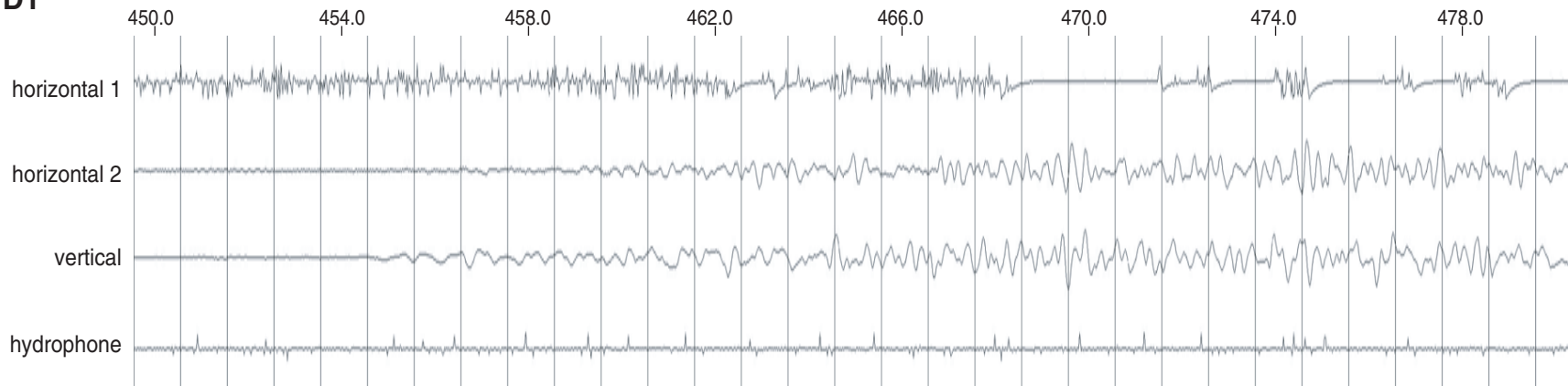


**Figure A4c:** Event IV, the teleseismic event, at station D1. Time is seconds after start of the event.

<b>EVENT IV</b>	Date: 05/12/2000	Time: 18:43:23.82	Location: 22.99° S, 66.74° W	Depth: 243 km	Magnitude: 7.2 Mw
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Time (s)

D1\*



A - 13

\*approximate time