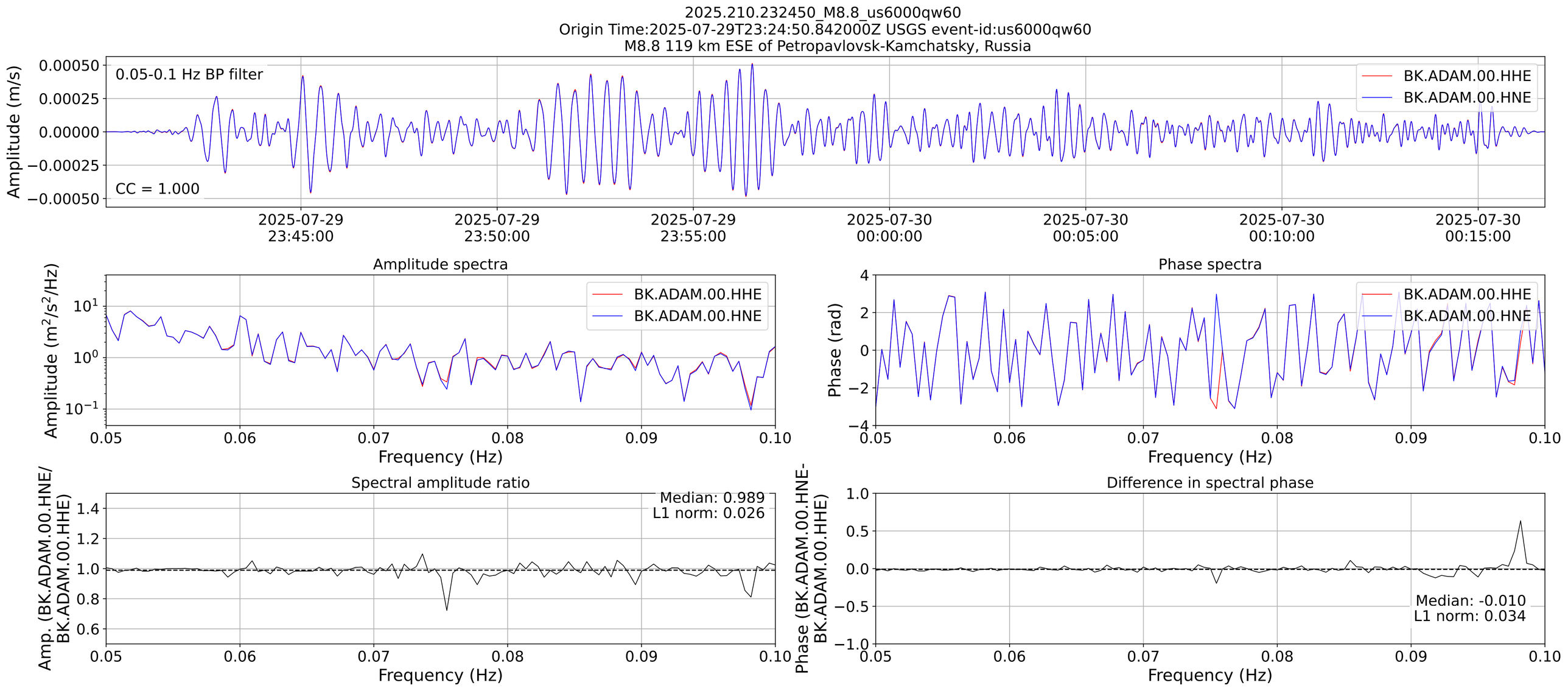
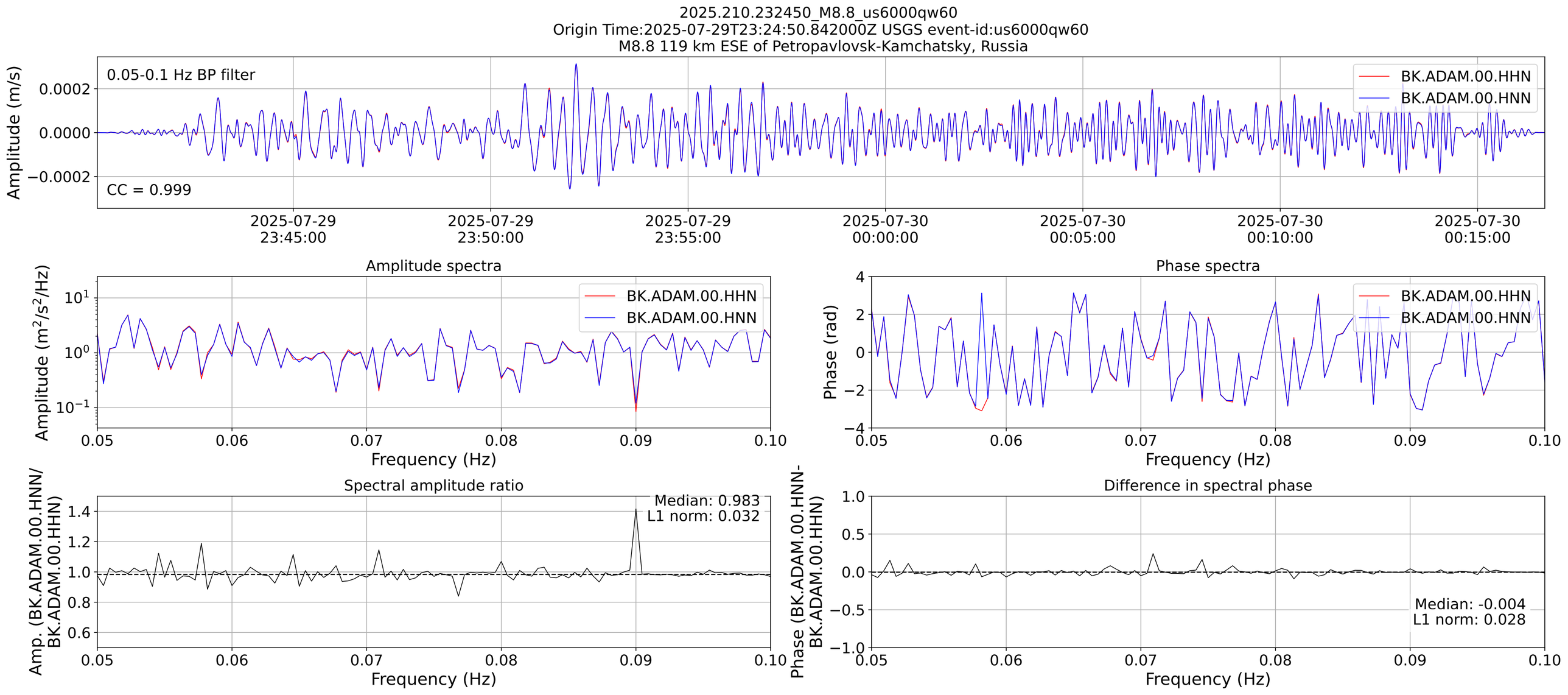
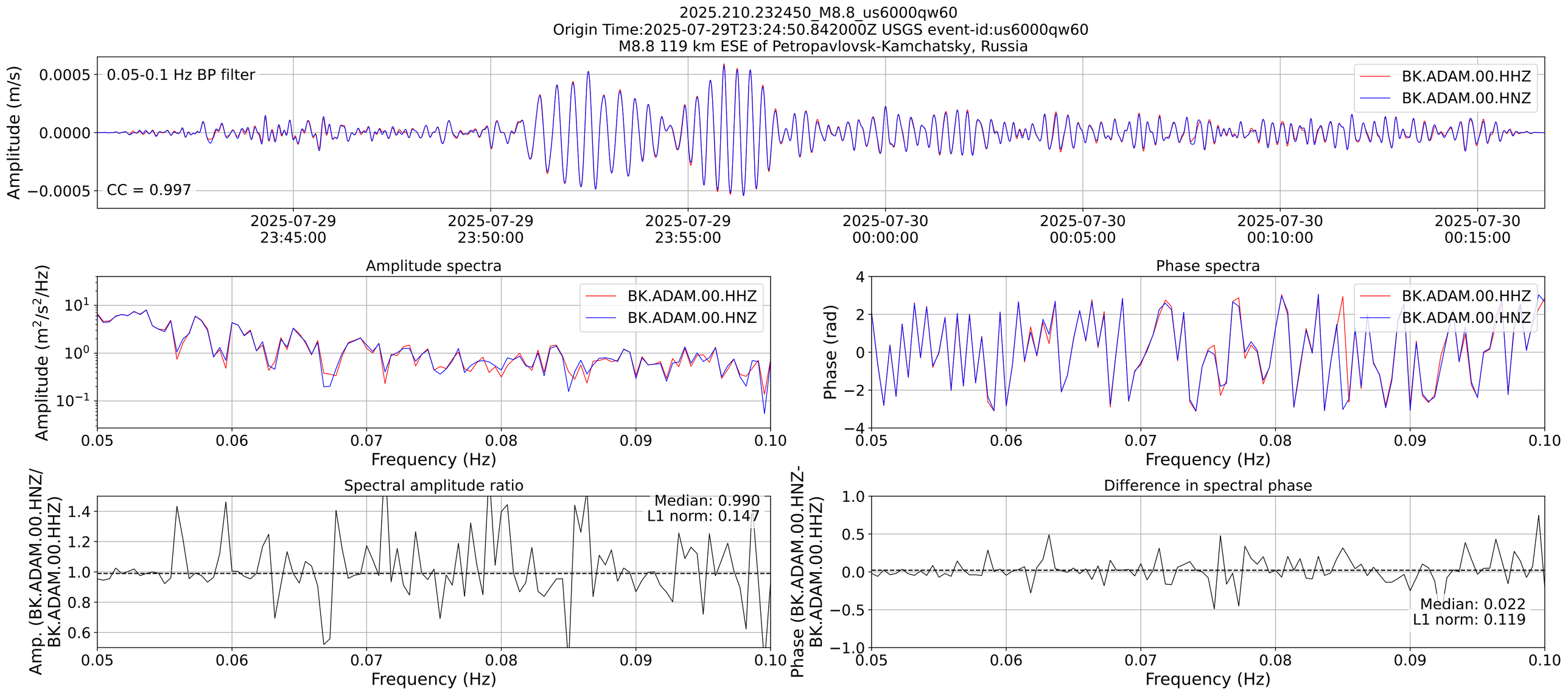
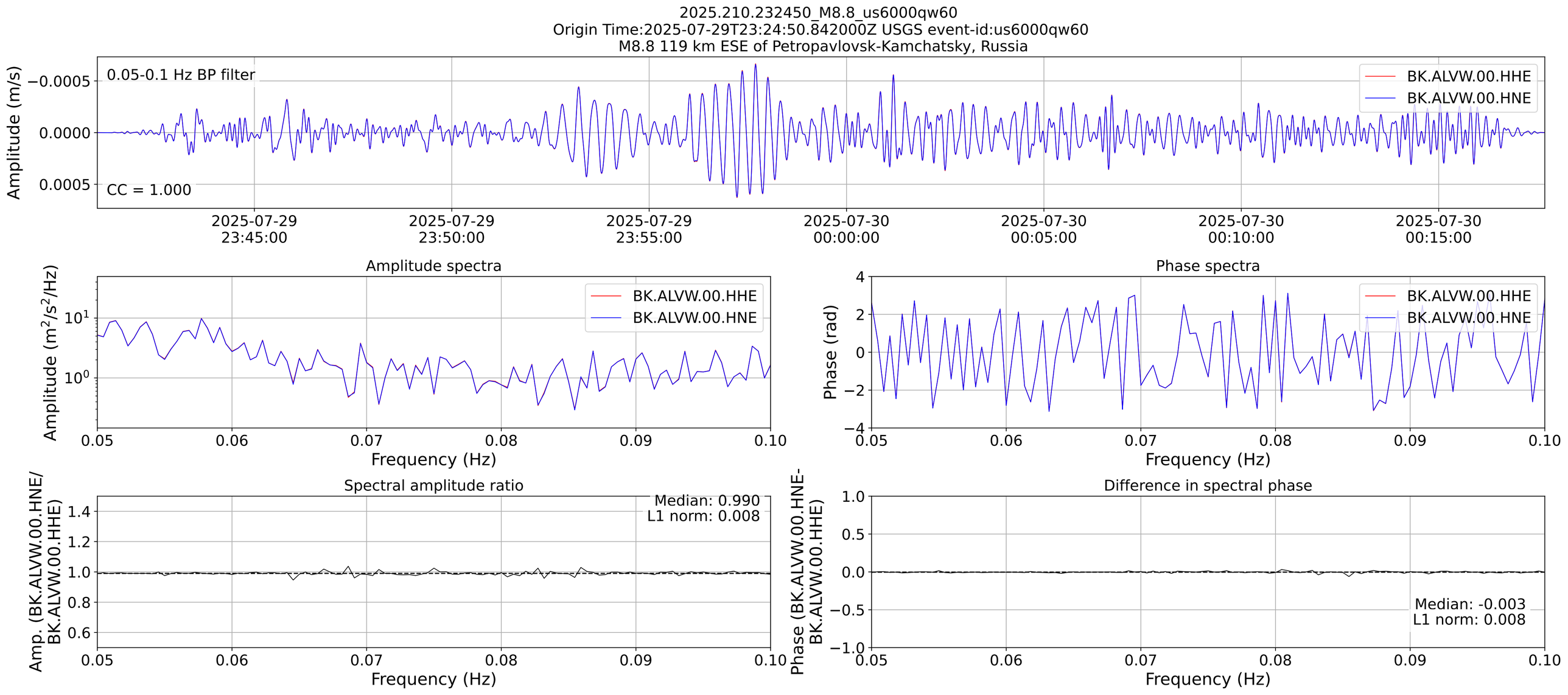
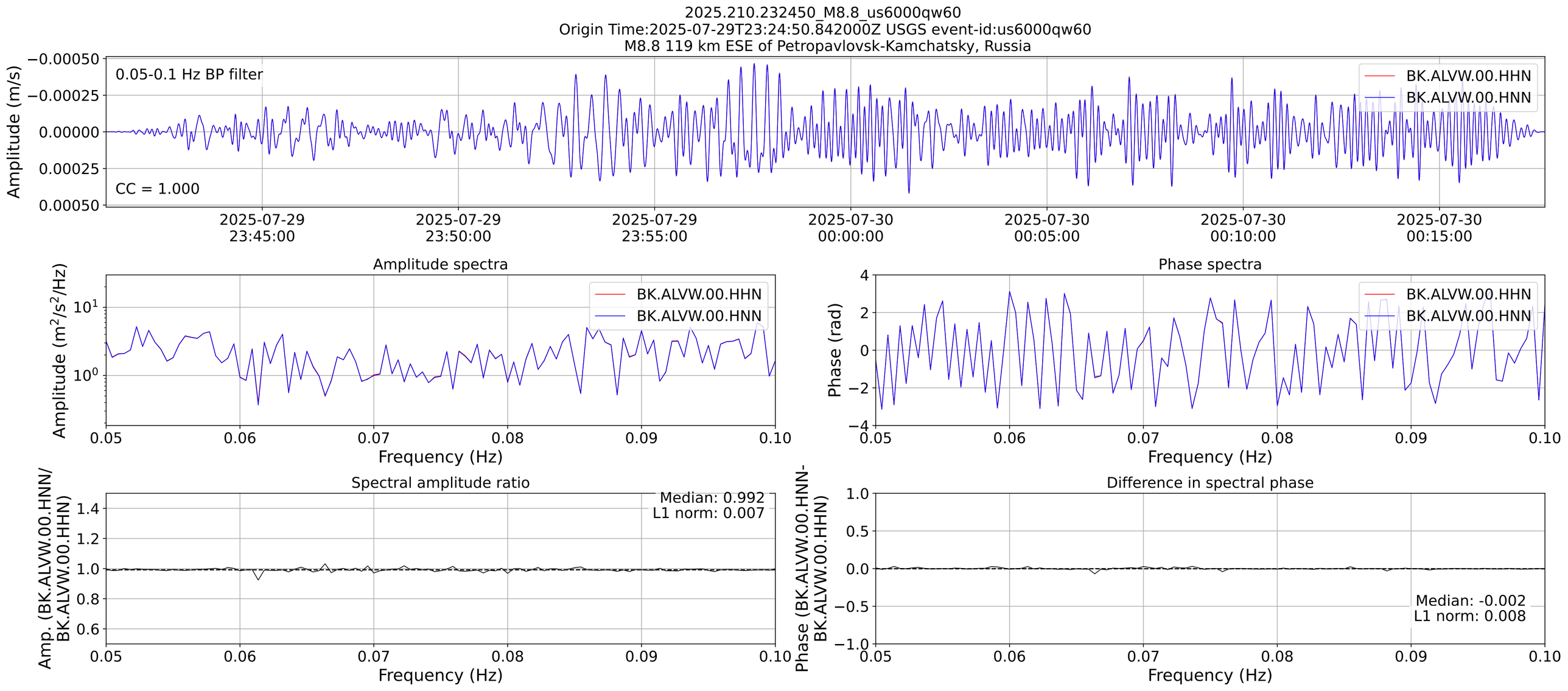
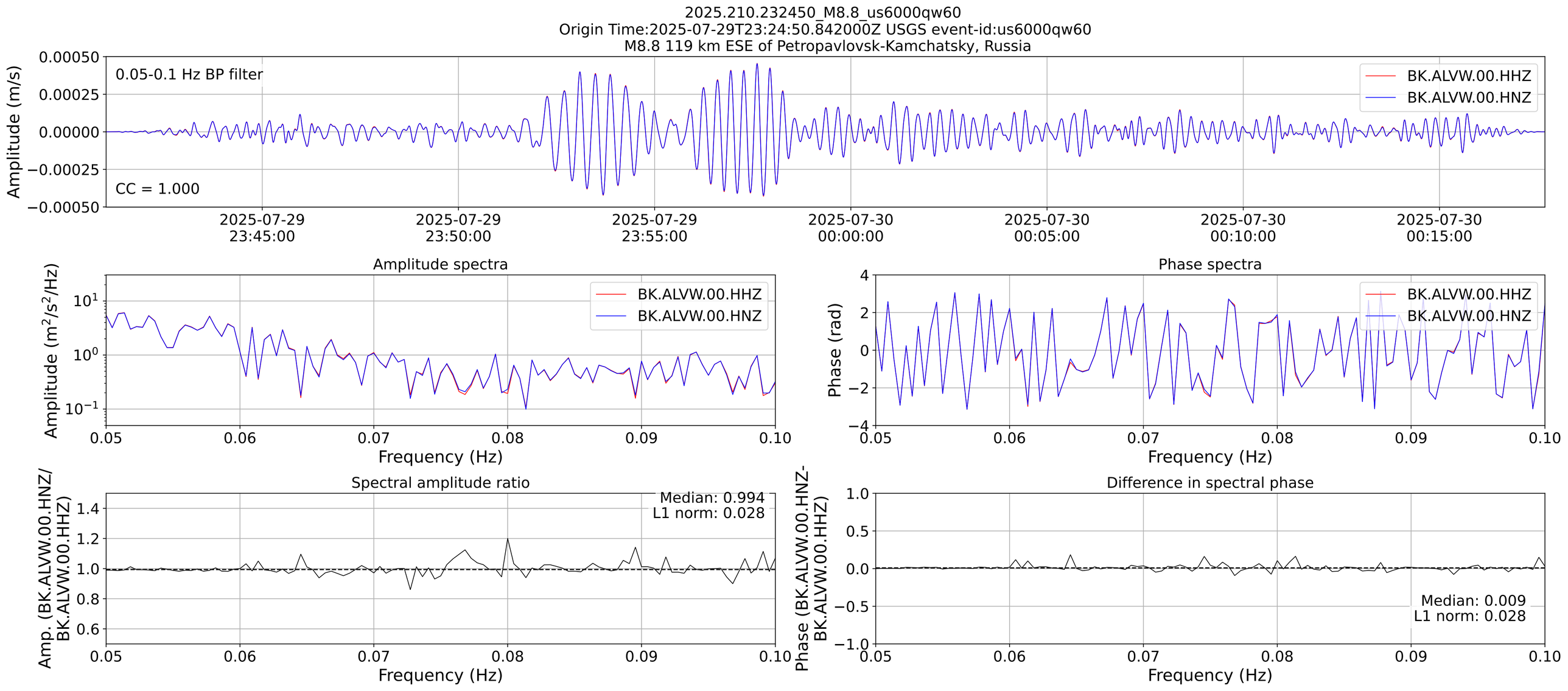

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ADAM.00.HHE
BK.ADAM.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNE/ BK.ADAM.00.HHE)
Median: 0.989
L1 norm: 0.026
Difference in spectral phase
Phase (BK.ADAM.00.HNE- BK.ADAM.00.HHE)
Median: -0.010
L1 norm: 0.034

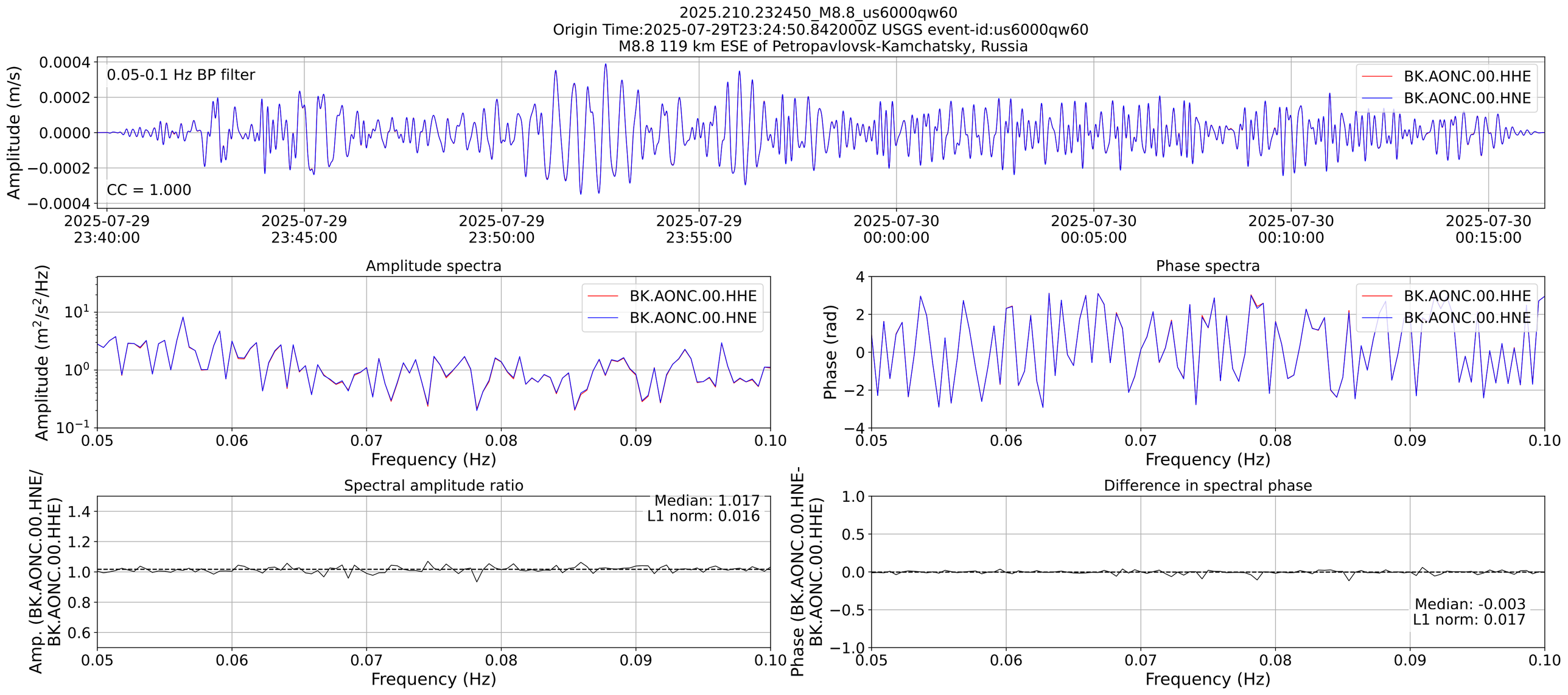

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.ADAM.00.HHN
BK.ADAM.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNN/ BK.ADAM.00.HHN)
Median: 0.983
L1 norm: 0.032
Difference in spectral phase
Phase (BK.ADAM.00.HNN- BK.ADAM.00.HHN)
Median: -0.004
L1 norm: 0.028

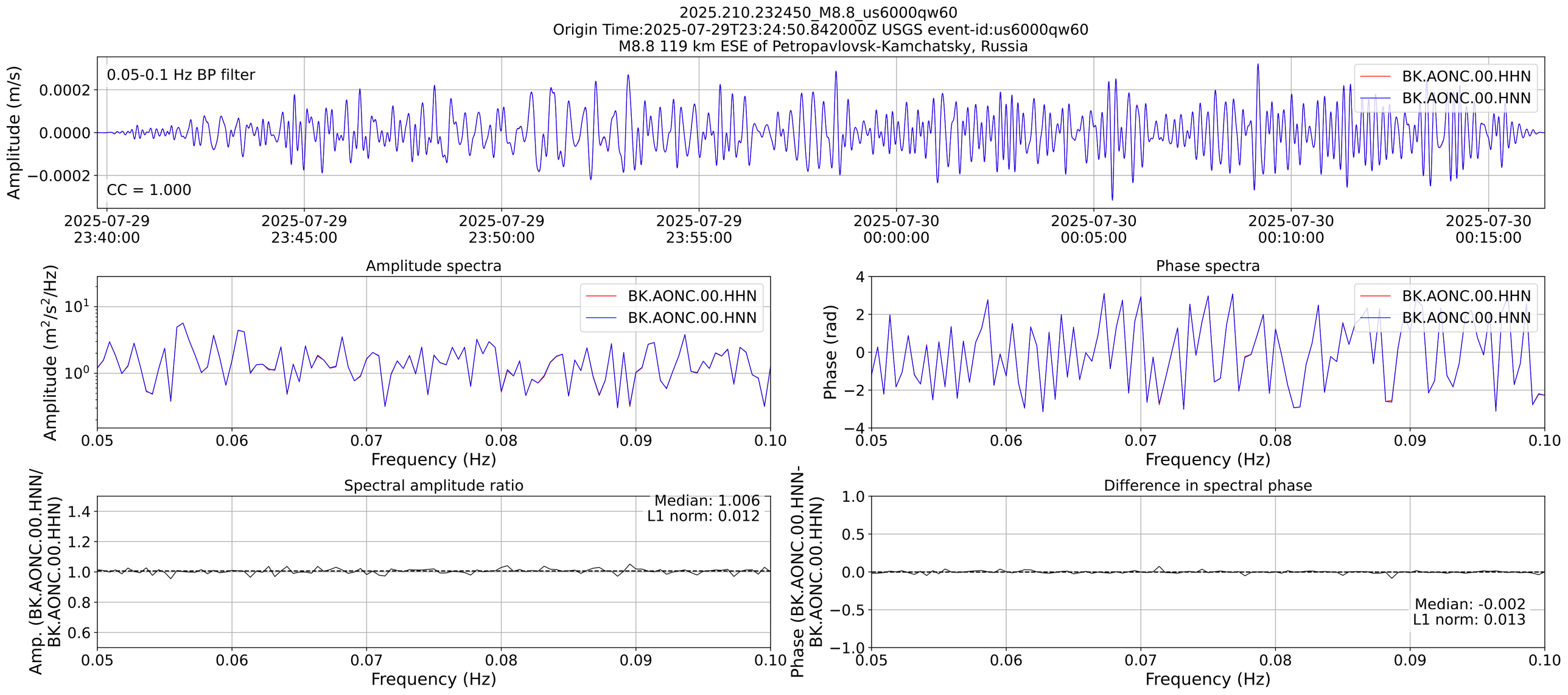

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.997
BK.ADAM.00.HHZ
BK.ADAM.00.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNZ/ BK.ADAM.00.HHZ)
Median: 0.990
L1 norm: 0.147
Difference in spectral phase
Phase (BK.ADAM.00.HNZ- BK.ADAM.00.HHZ)
Median: 0.022
L1 norm: 0.119

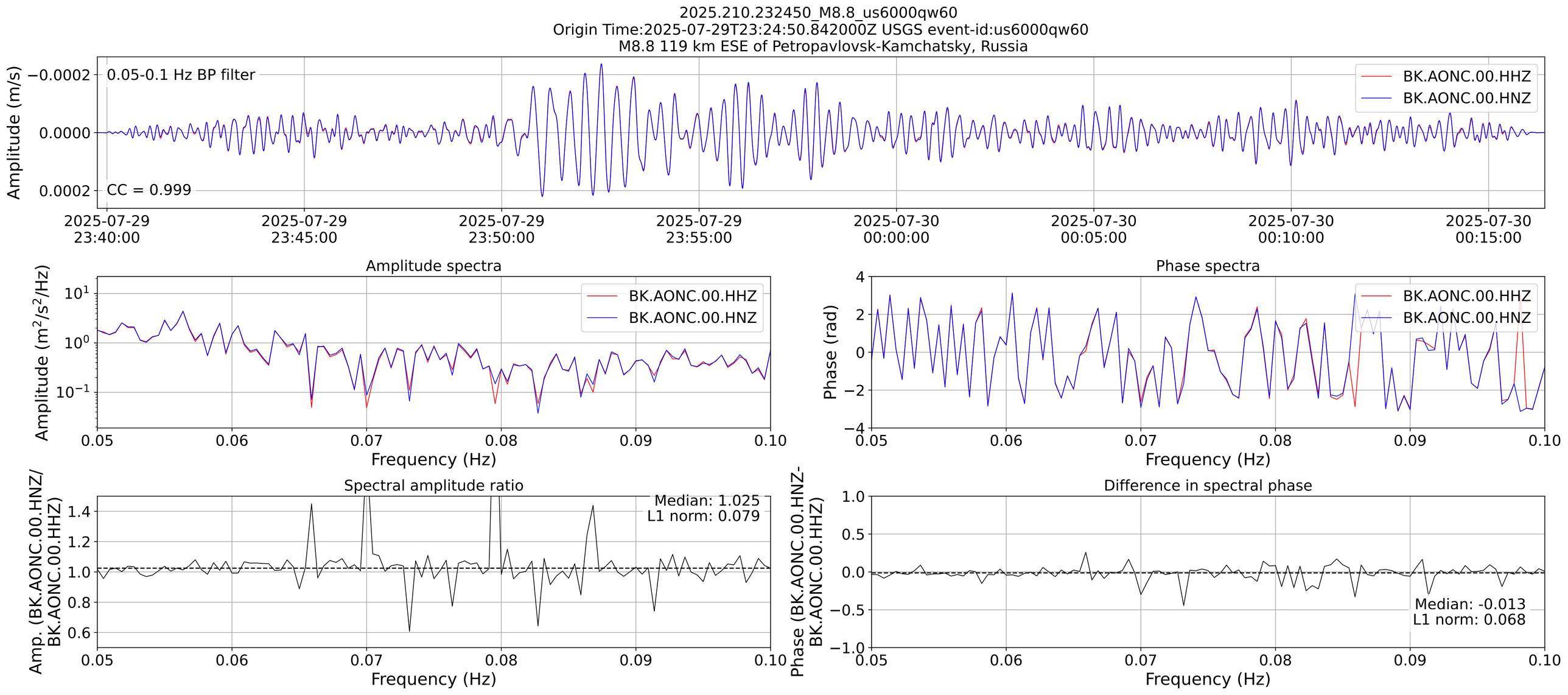

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ALVW.00.HHE
BK.ALVW.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNE/ BK.ALVW.00.HHE)
Median: 0.990
L1 norm: 0.008
Difference in spectral phase
Phase (BK.ALVW.00.HNE- BK.ALVW.00.HHE)
Median: -0.003
L1 norm: 0.008

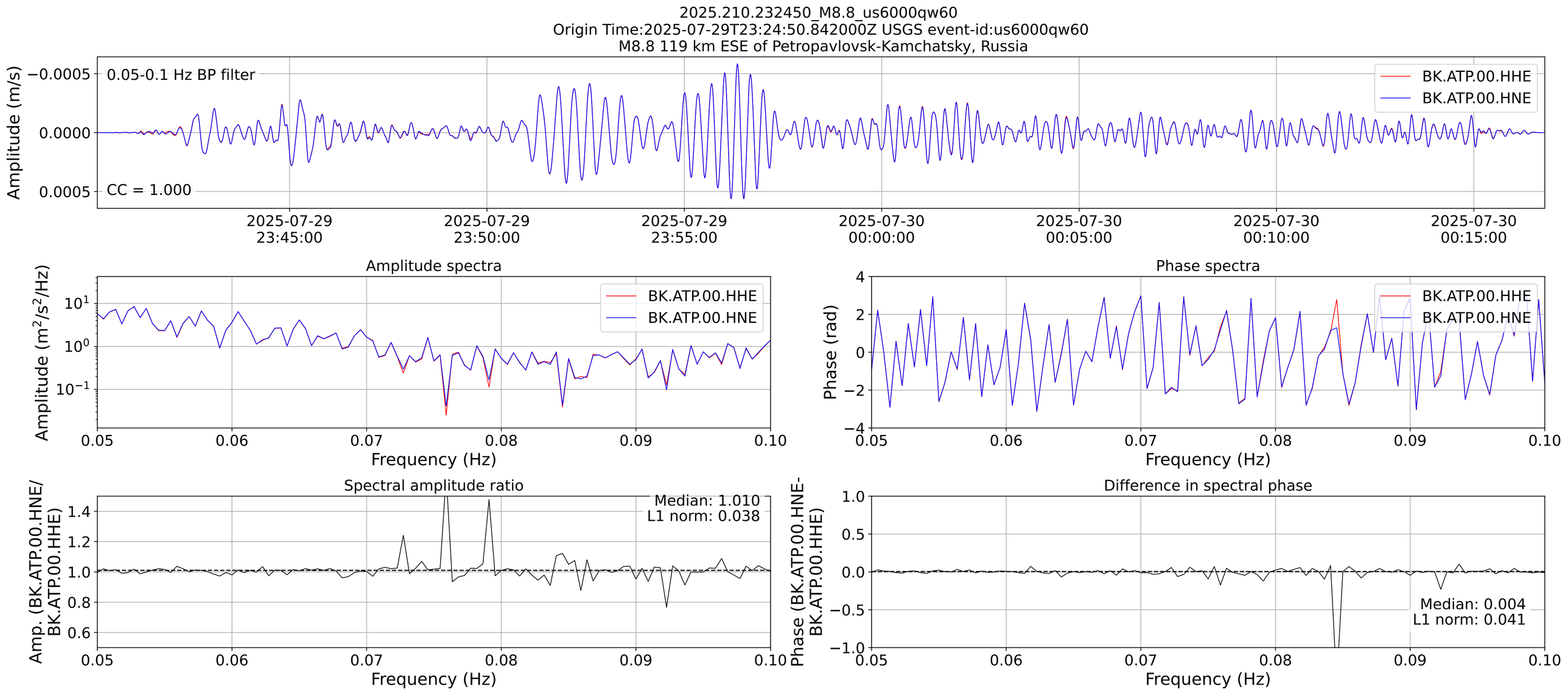

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ALVW.00.HHN
BK.ALVW.00.HNN
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNN/ BK.ALVW.00.HHN)
Median: 0.992
L1 norm: 0.007
Difference in spectral phase
Phase (BK.ALVW.00.HNN- BK.ALVW.00.HHN)
Median: -0.002
L1 norm: 0.008

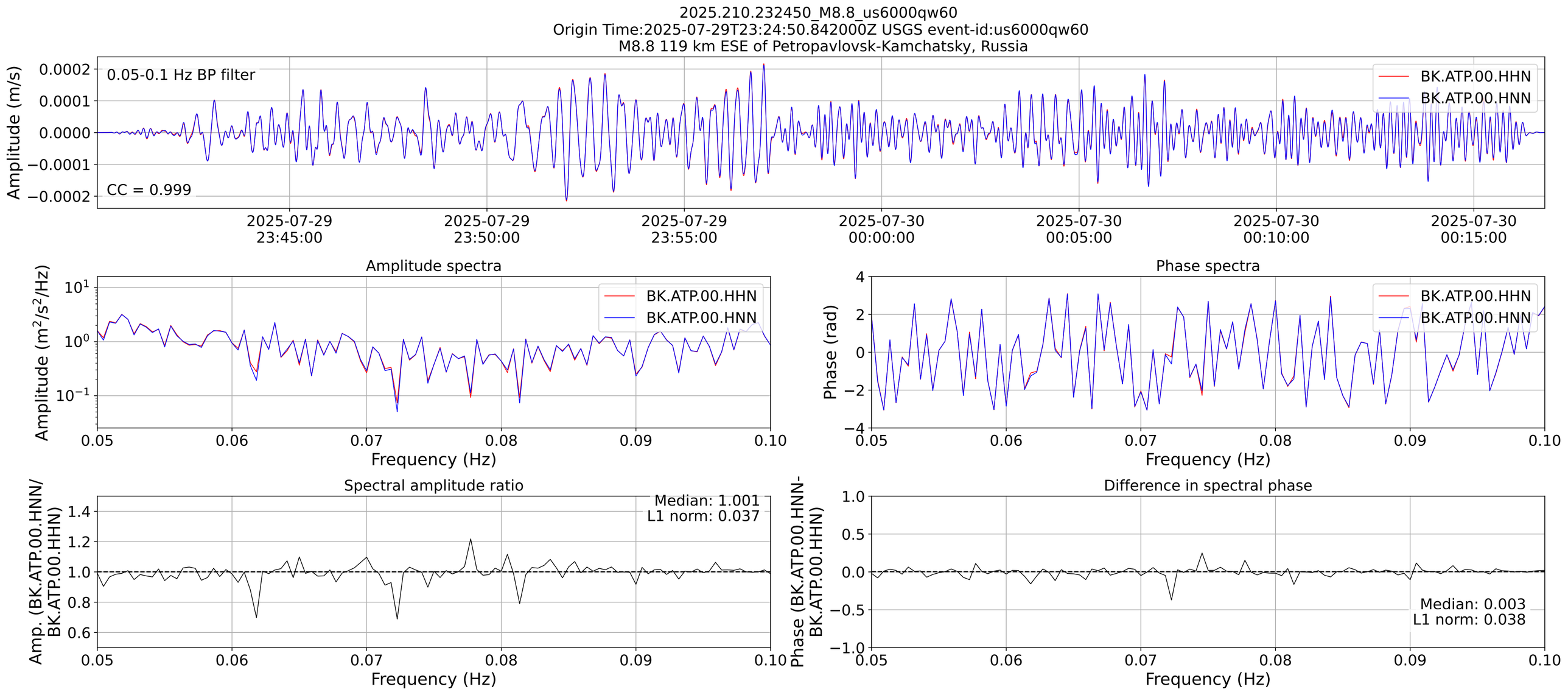

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ALVW.00.HHZ
BK.ALVW.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNZ/ BK.ALVW.00.HHZ)
Median: 0.994
L1 norm: 0.028
Difference in spectral phase
Phase (BK.ALVW.00.HNZ- BK.ALVW.00.HHZ)
Median: 0.009
L1 norm: 0.028

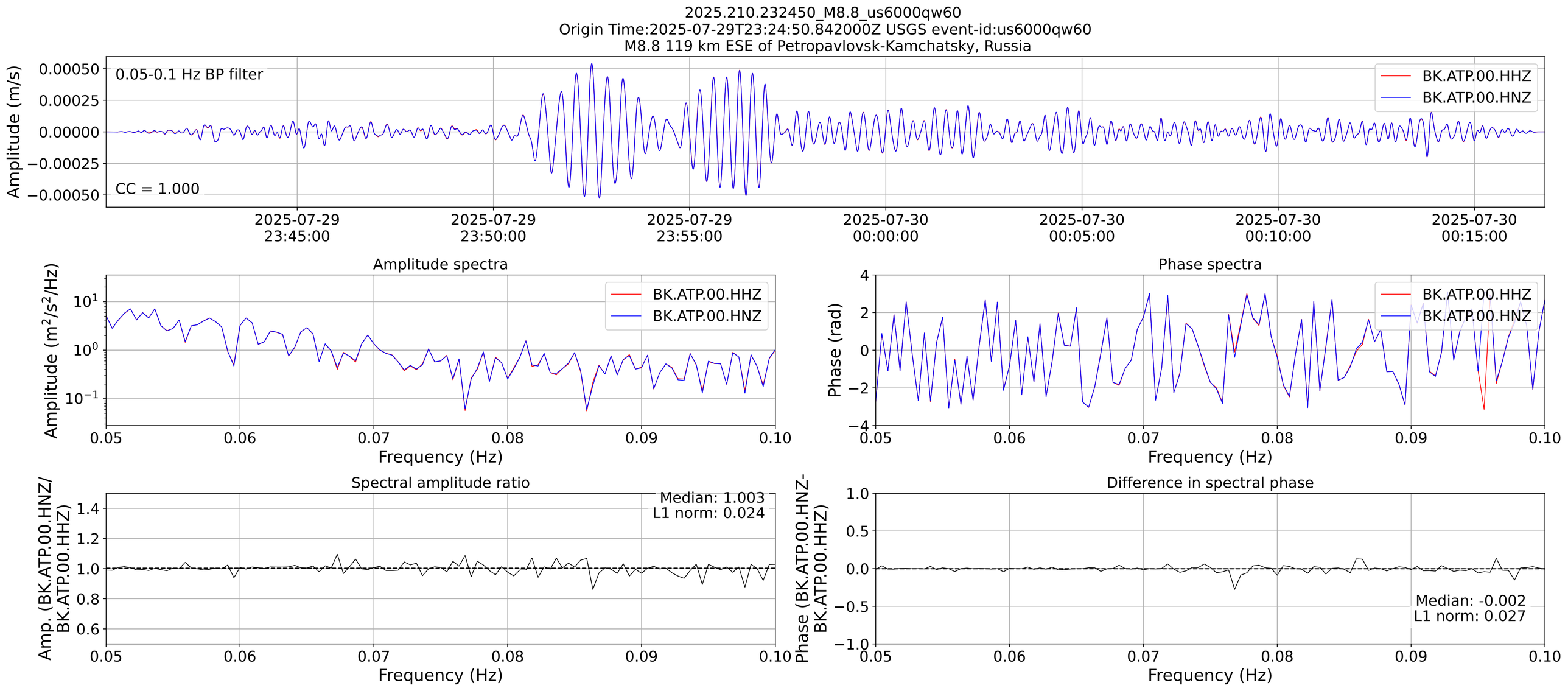

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AONC.00.HHE
BK.AONC.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNE/ BK.AONC.00.HHE)
Median: 1.017
L1 norm: 0.016
Difference in spectral phase
Phase (BK.AONC.00.HNE- BK.AONC.00.HHE)
Median: -0.003
L1 norm: 0.017

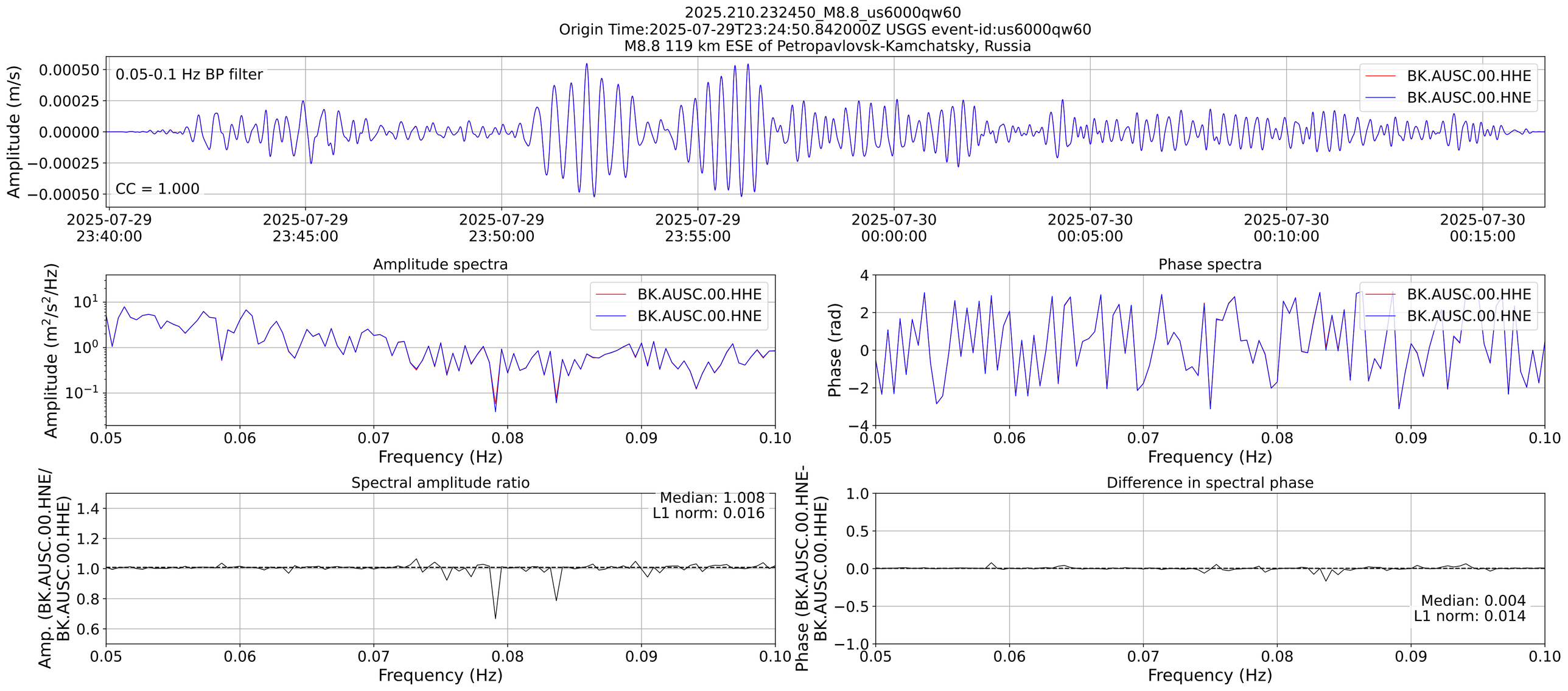

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AONC.00.HHN
BK.AONC.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNN/ BK.AONC.00.HHN)
Median: 1.006
L1 norm: 0.012
Difference in spectral phase
Phase (BK.AONC.00.HNN- BK.AONC.00.HHN)
Median: -0.002
L1 norm: 0.013

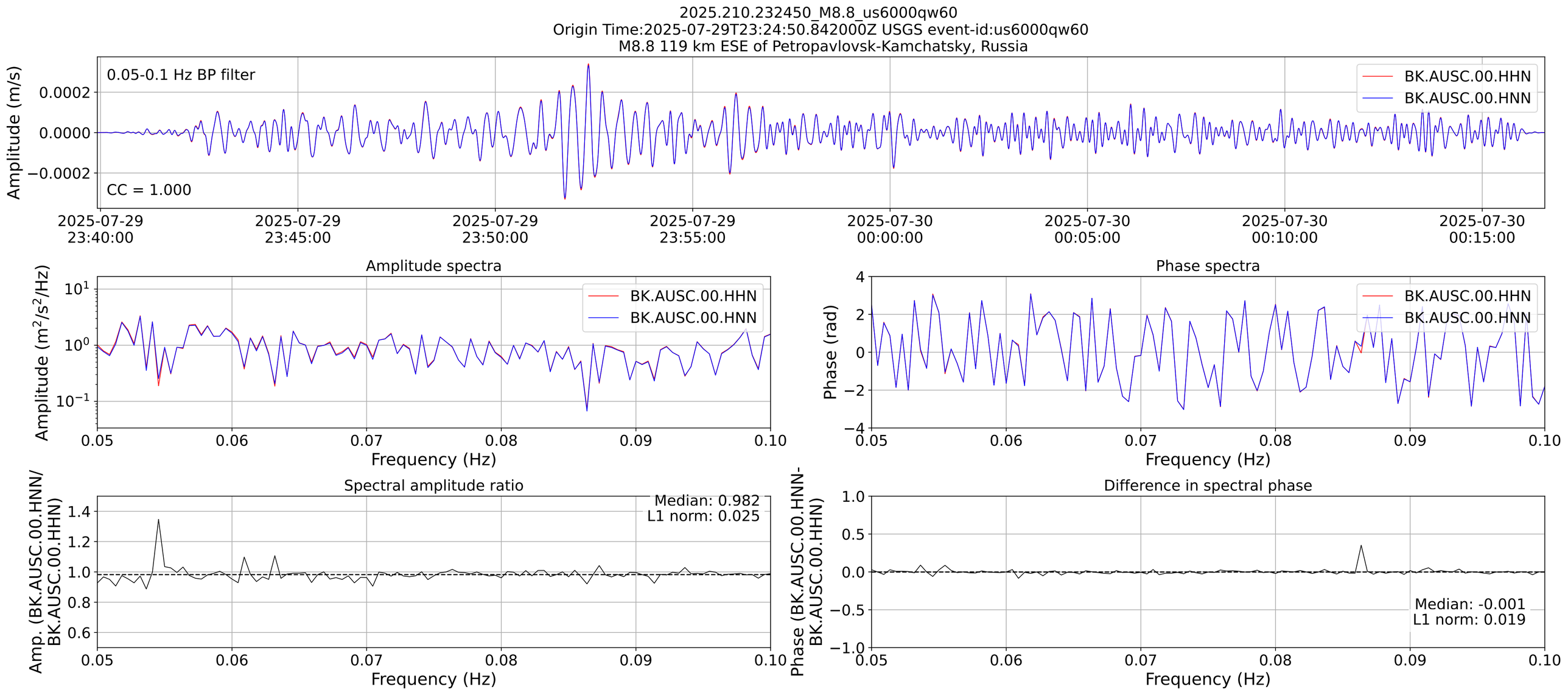

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.AONC.00.HHZ
BK.AONC.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNZ/ BK.AONC.00.HHZ)
Median: 1.025
L1 norm: 0.079
Difference in spectral phase
Phase (BK.AONC.00.HNZ- BK.AONC.00.HHZ)
Median: -0.013
L1 norm: 0.068

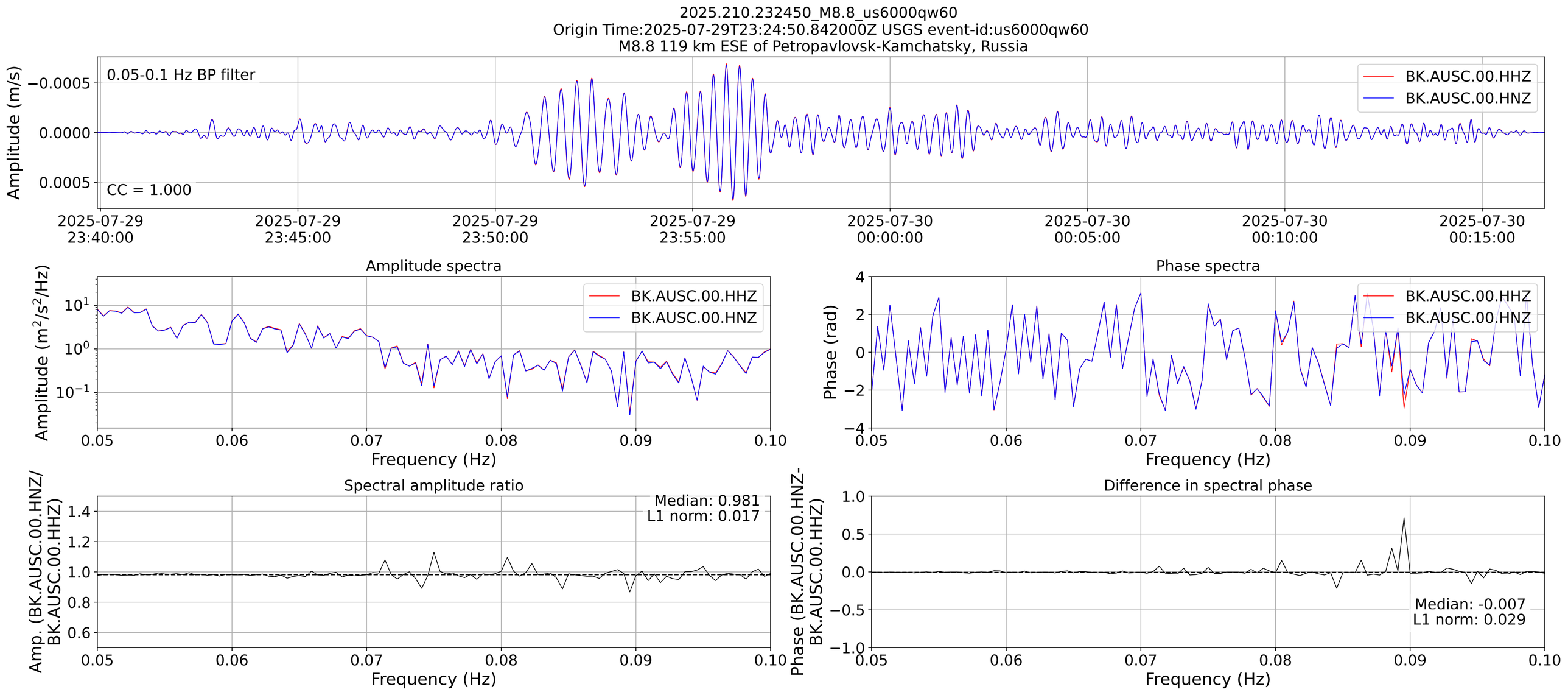

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ATP.00.HHE
BK.ATP.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNE/ BK.ATP.00.HHE)
Median: 1.010
L1 norm: 0.038
Difference in spectral phase
Phase (BK.ATP.00.HNE- BK.ATP.00.HHE)
Median: 0.004
L1 norm: 0.041

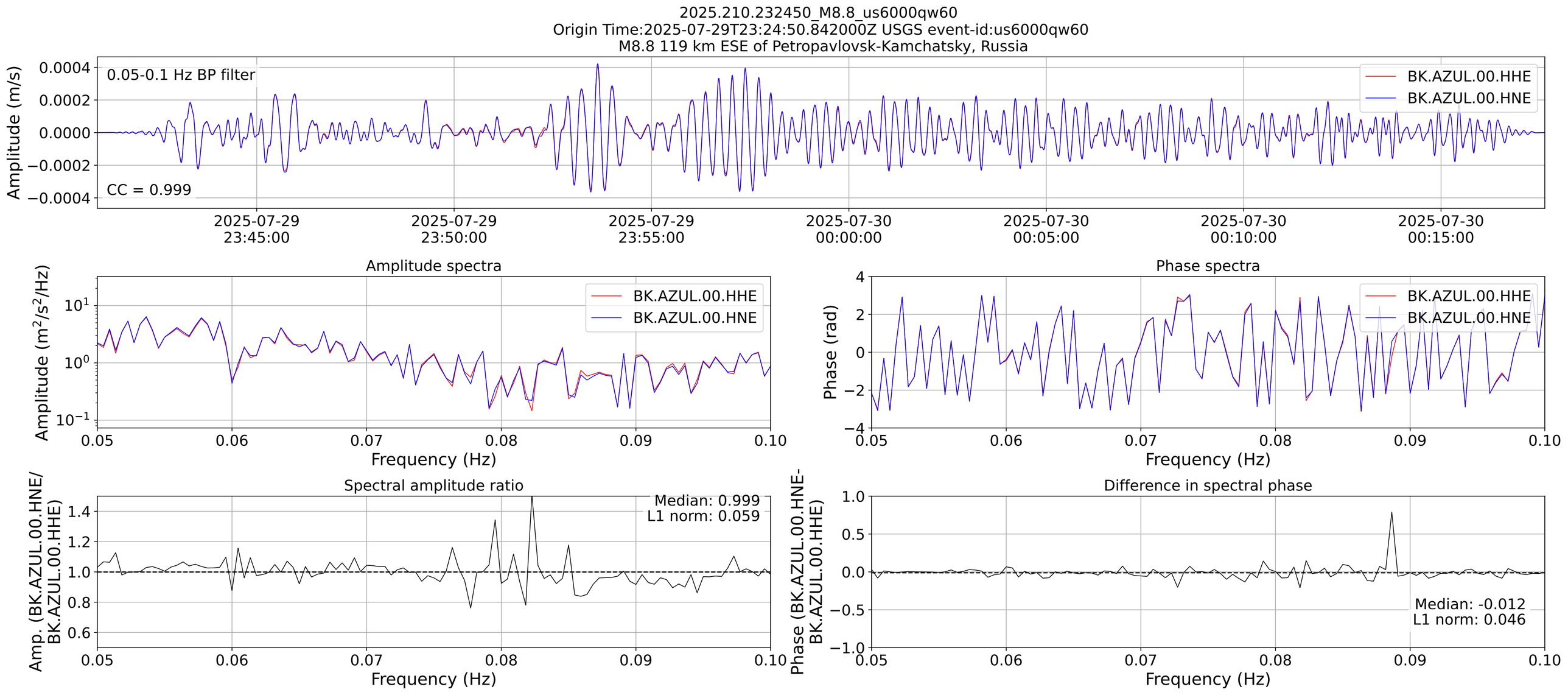

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.ATP.00.HHN
BK.ATP.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNN/ BK.ATP.00.HHN)
Median: 1.001
L1 norm: 0.037
Difference in spectral phase
Phase (BK.ATP.00.HNN- BK.ATP.00.HHN)
Median: 0.003
L1 norm: 0.038

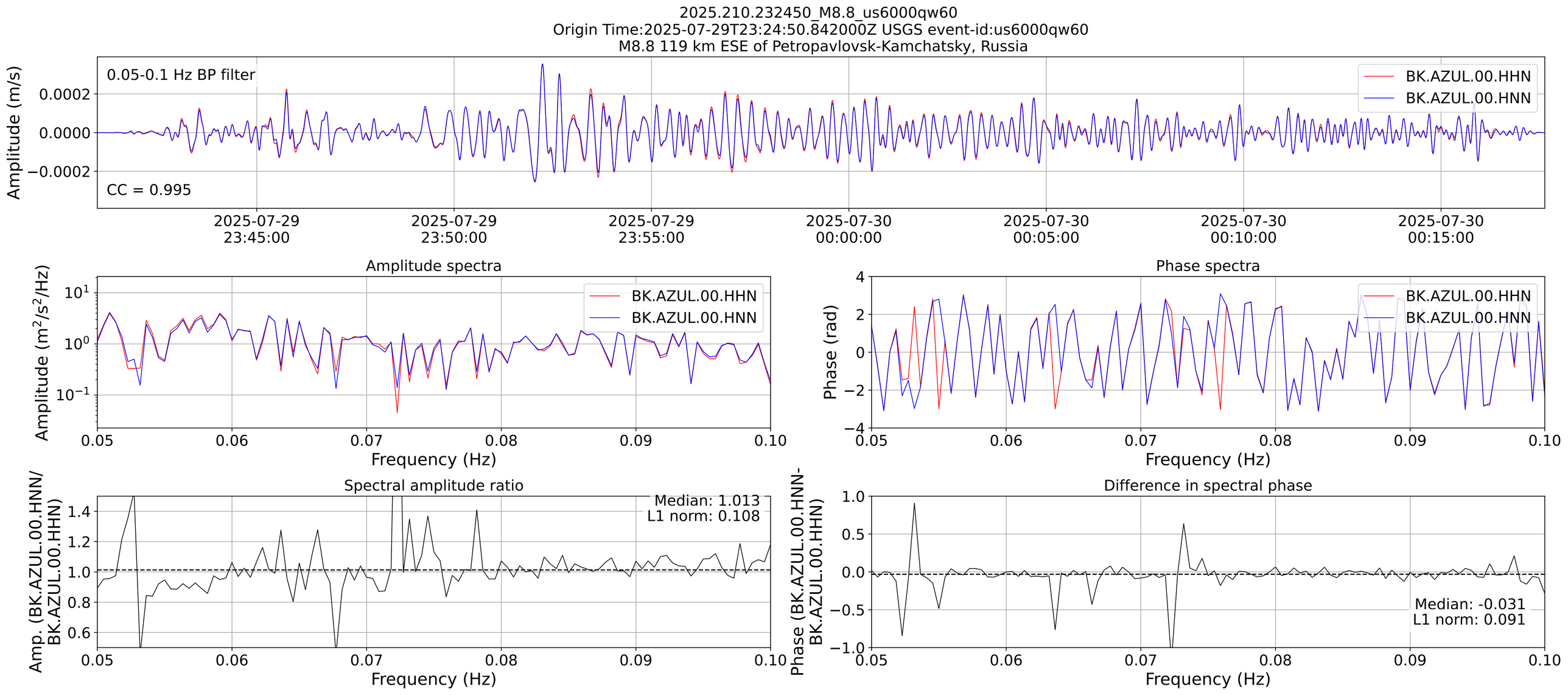

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.ATP.00.HHZ
BK.ATP.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNZ/ BK.ATP.00.HHZ)
Median: 1.003
L1 norm: 0.024
Difference in spectral phase
Phase (BK.ATP.00.HNZ- BK.ATP.00.HHZ)
Median: -0.002
L1 norm: 0.027

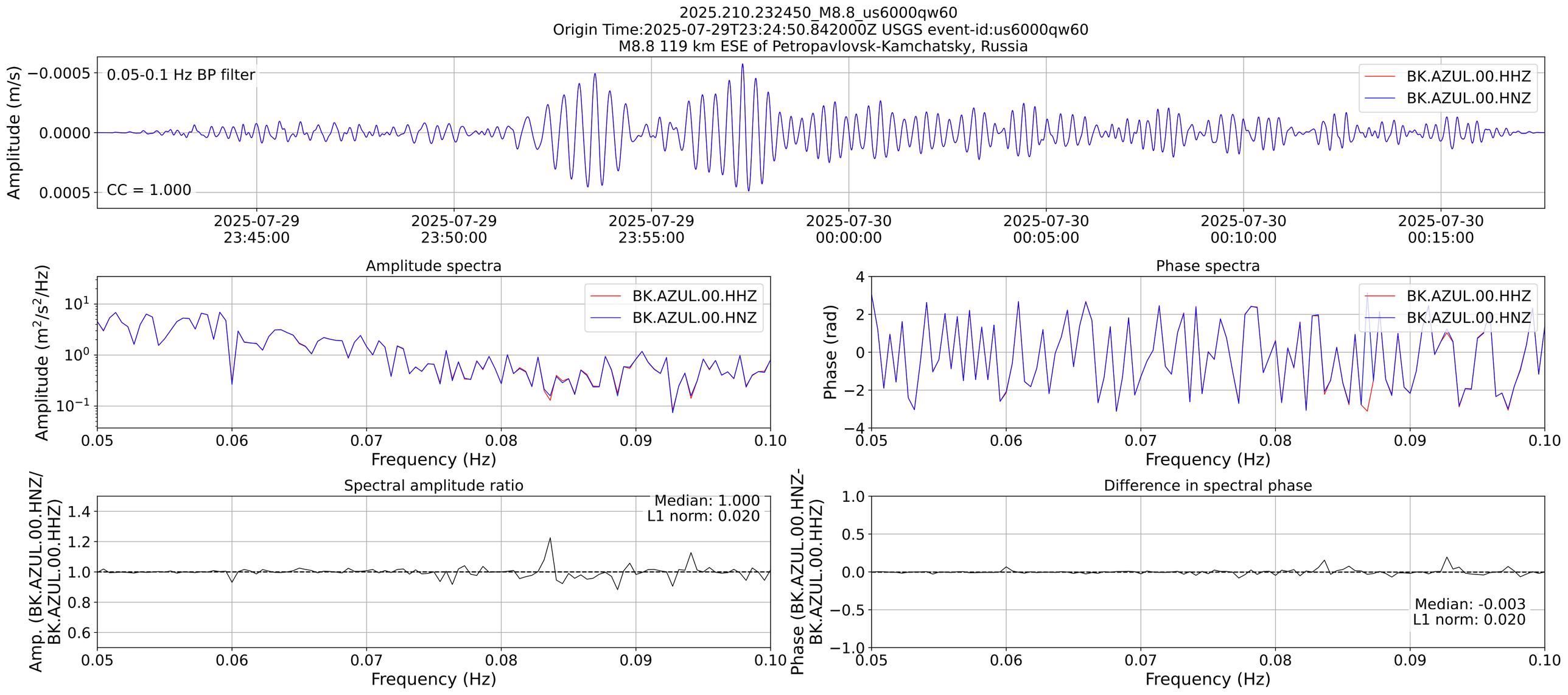

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AUSC.00.HHE
BK.AUSC.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNE/ BK.AUSC.00.HHE)
Median: 1.008
L1 norm: 0.016
Difference in spectral phase
Phase (BK.AUSC.00.HNE- BK.AUSC.00.HHE)
Median: 0.004
L1 norm: 0.014

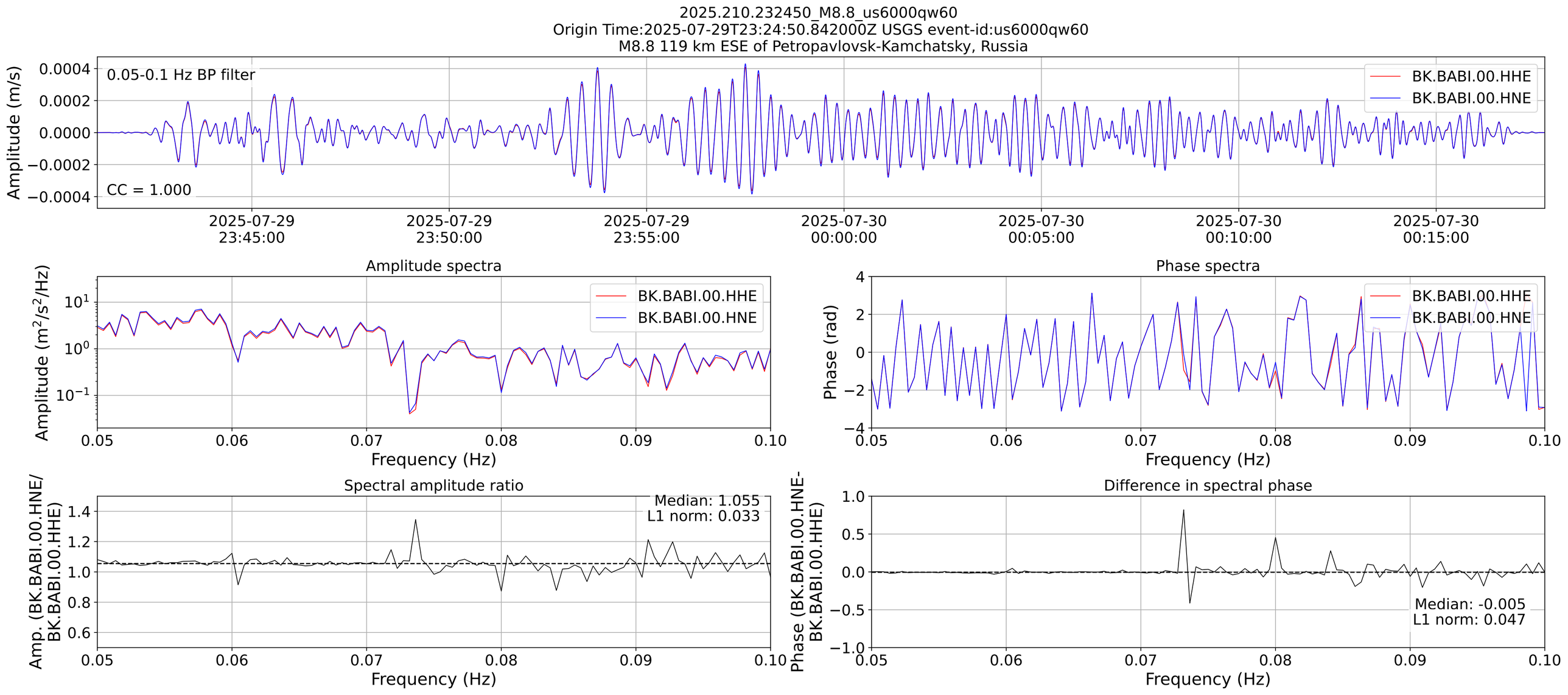

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AUSC.00.HHN
BK.AUSC.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNN/ BK.AUSC.00.HHN)
Median: 0.982
L1 norm: 0.025
Difference in spectral phase
Phase (BK.AUSC.00.HNN- BK.AUSC.00.HHN)
Median: -0.001
L1 norm: 0.019

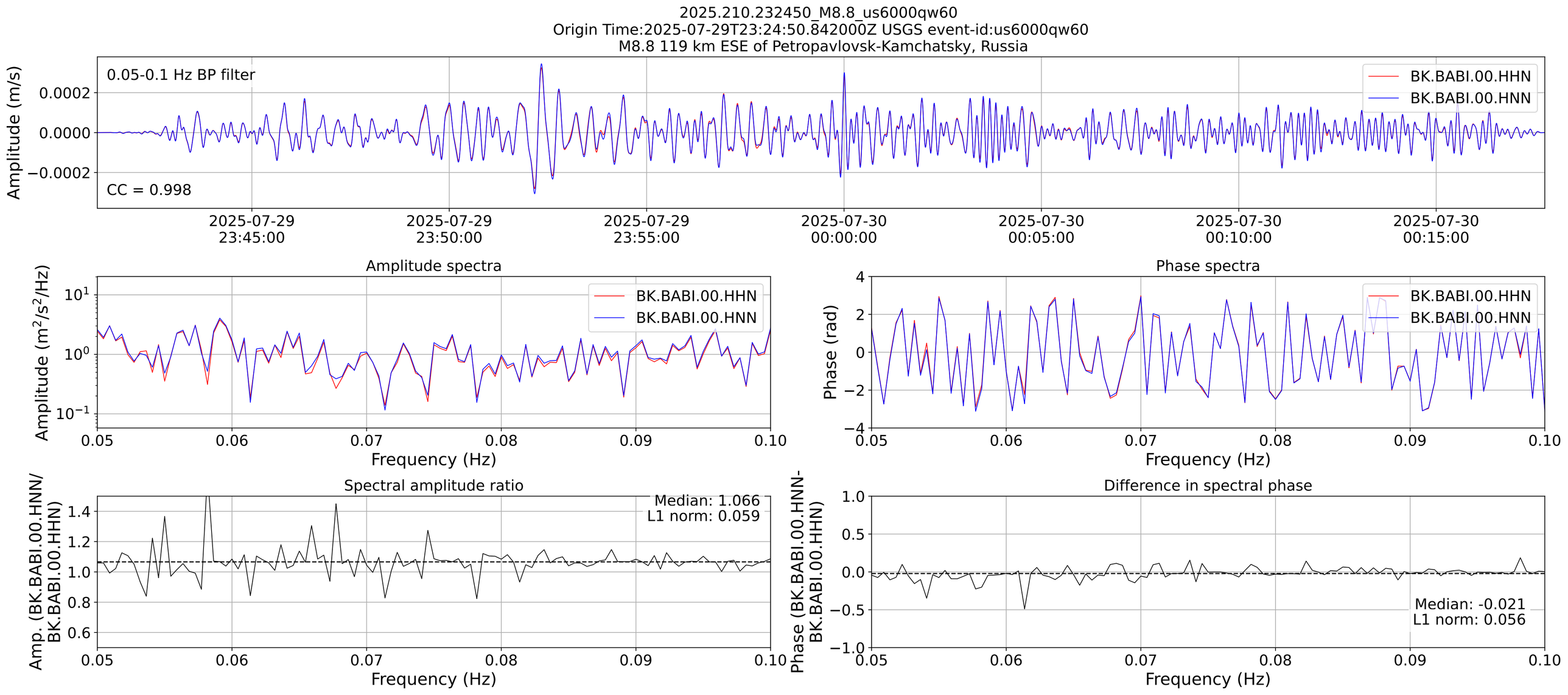

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AUSC.00.HHZ
BK.AUSC.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNZ/ BK.AUSC.00.HHZ)
Median: 0.981
L1 norm: 0.017
Difference in spectral phase
Phase (BK.AUSC.00.HNZ- BK.AUSC.00.HHZ)
Median: -0.007
L1 norm: 0.029

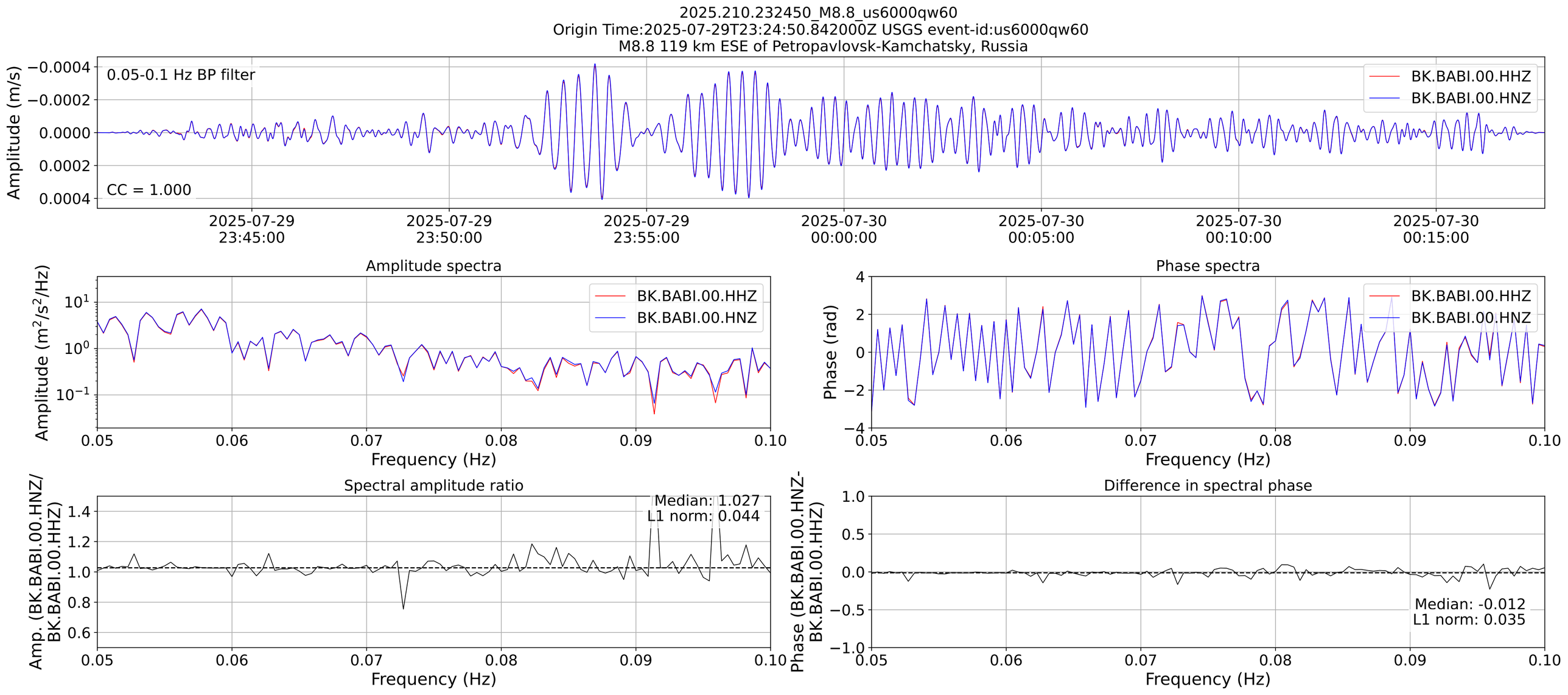

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.AZUL.00.HHE
BK.AZUL.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNE/ BK.AZUL.00.HHE)
Median: 0.999
L1 norm: 0.059
Difference in spectral phase
Phase (BK.AZUL.00.HNE- BK.AZUL.00.HHE)
Median: -0.012
L1 norm: 0.046

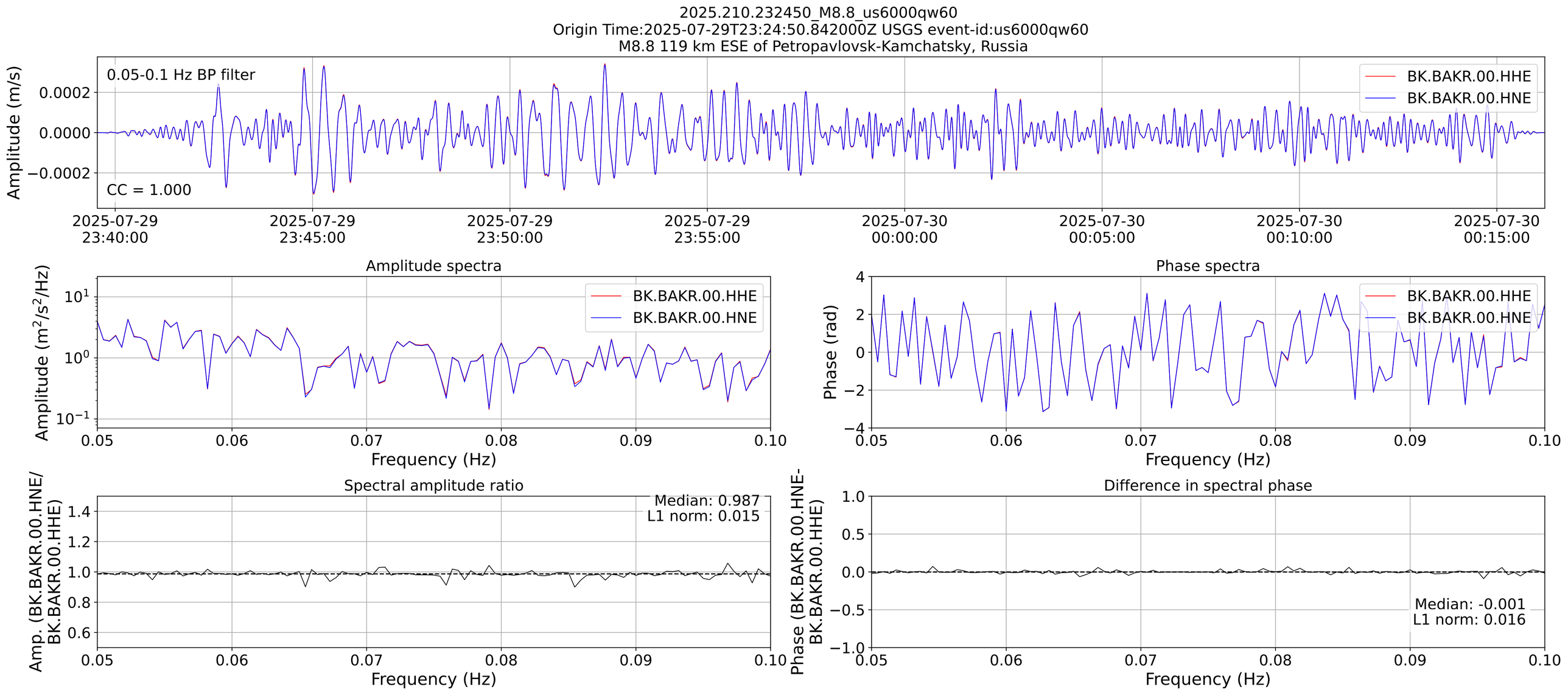

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.995
BK.AZUL.00.HHN
BK.AZUL.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNN/ BK.AZUL.00.HHN)
Median: 1.013
L1 norm: 0.108
Difference in spectral phase
Phase (BK.AZUL.00.HNN- BK.AZUL.00.HHN)
Median: -0.031
L1 norm: 0.091

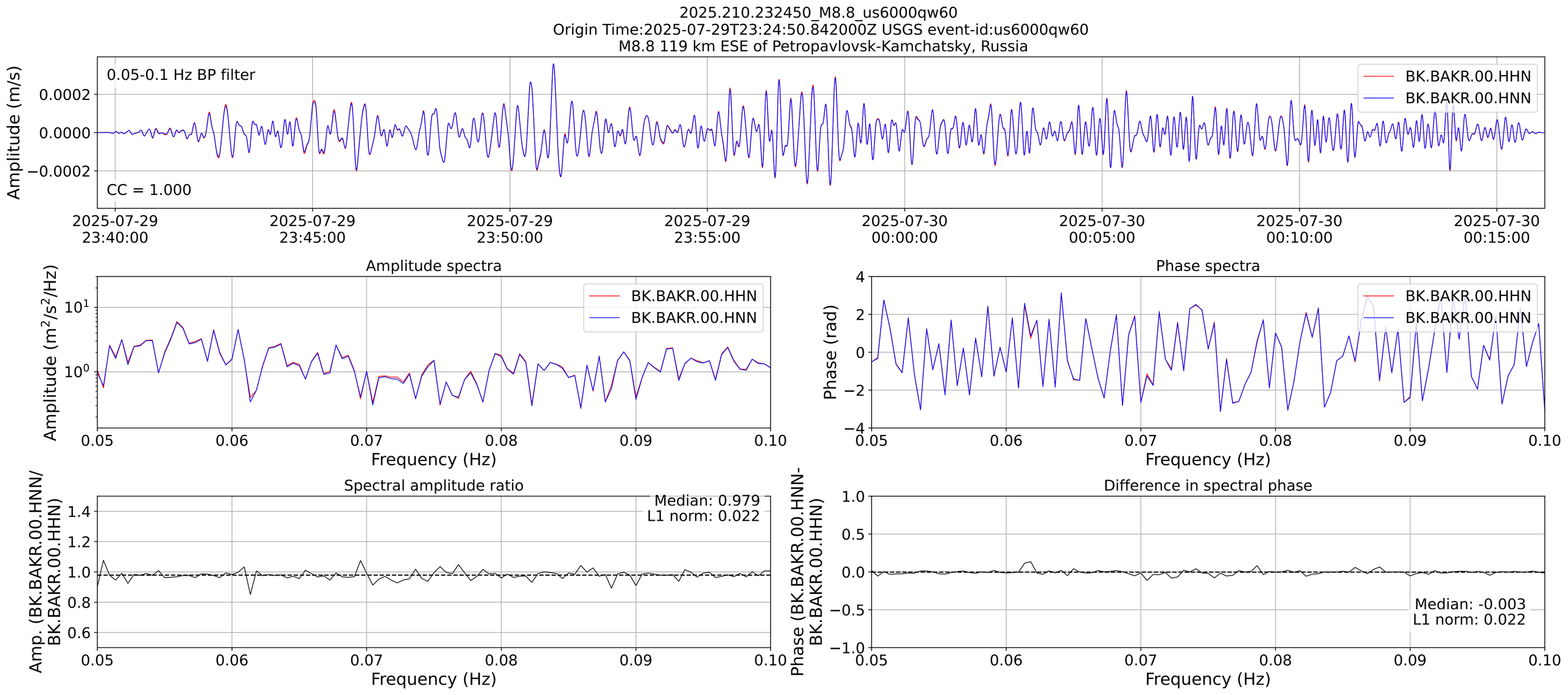

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.AZUL.00.HHZ
BK.AZUL.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNZ/ BK.AZUL.00.HHZ)
Median: 1.000
L1 norm: 0.020
Difference in spectral phase
Phase (BK.AZUL.00.HNZ- BK.AZUL.00.HHZ)
Median: -0.003
L1 norm: 0.020

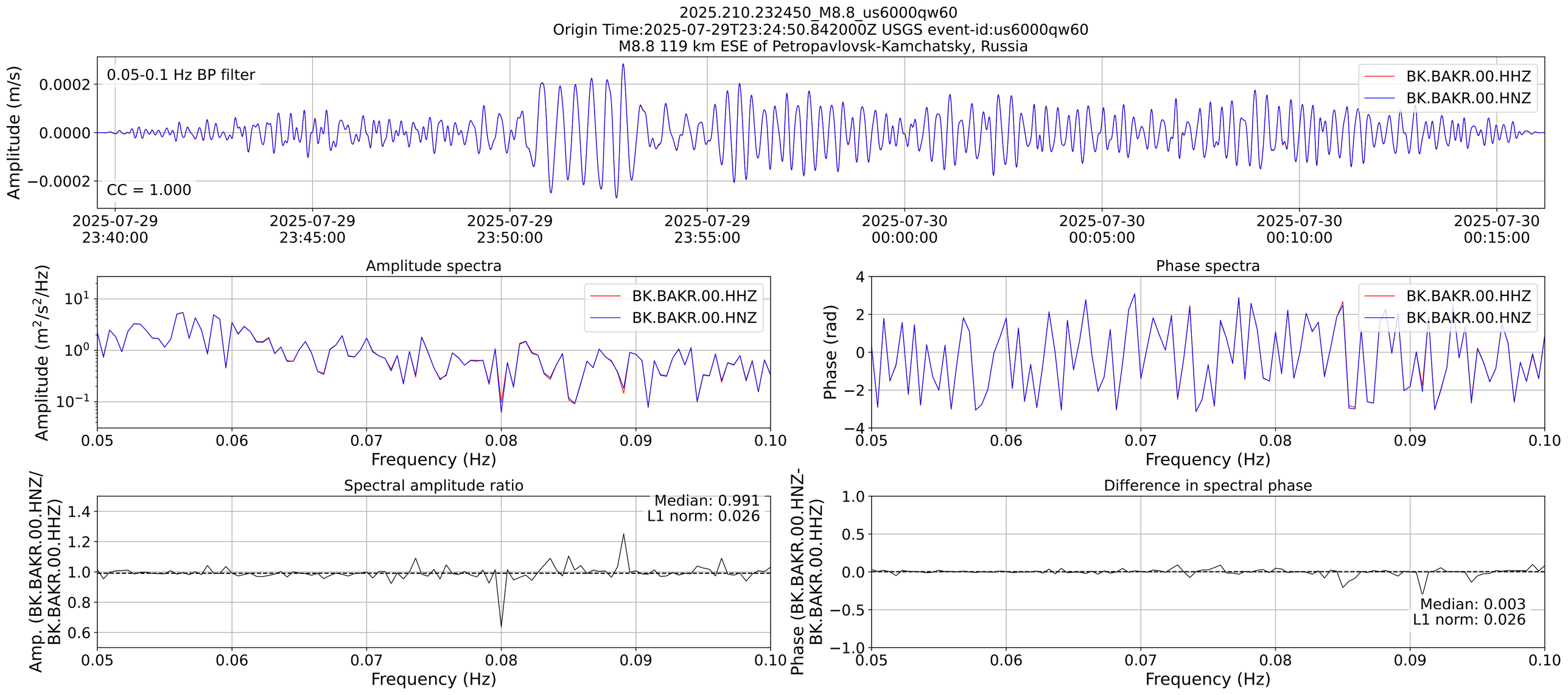

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BABI.00.HHE
BK.BABI.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNE/ BK.BABI.00.HHE)
Median: 1.055
L1 norm: 0.033
Difference in spectral phase
Phase (BK.BABI.00.HNE-BK.BABI.00.HHE)
Median: -0.005
L1 norm: 0.047

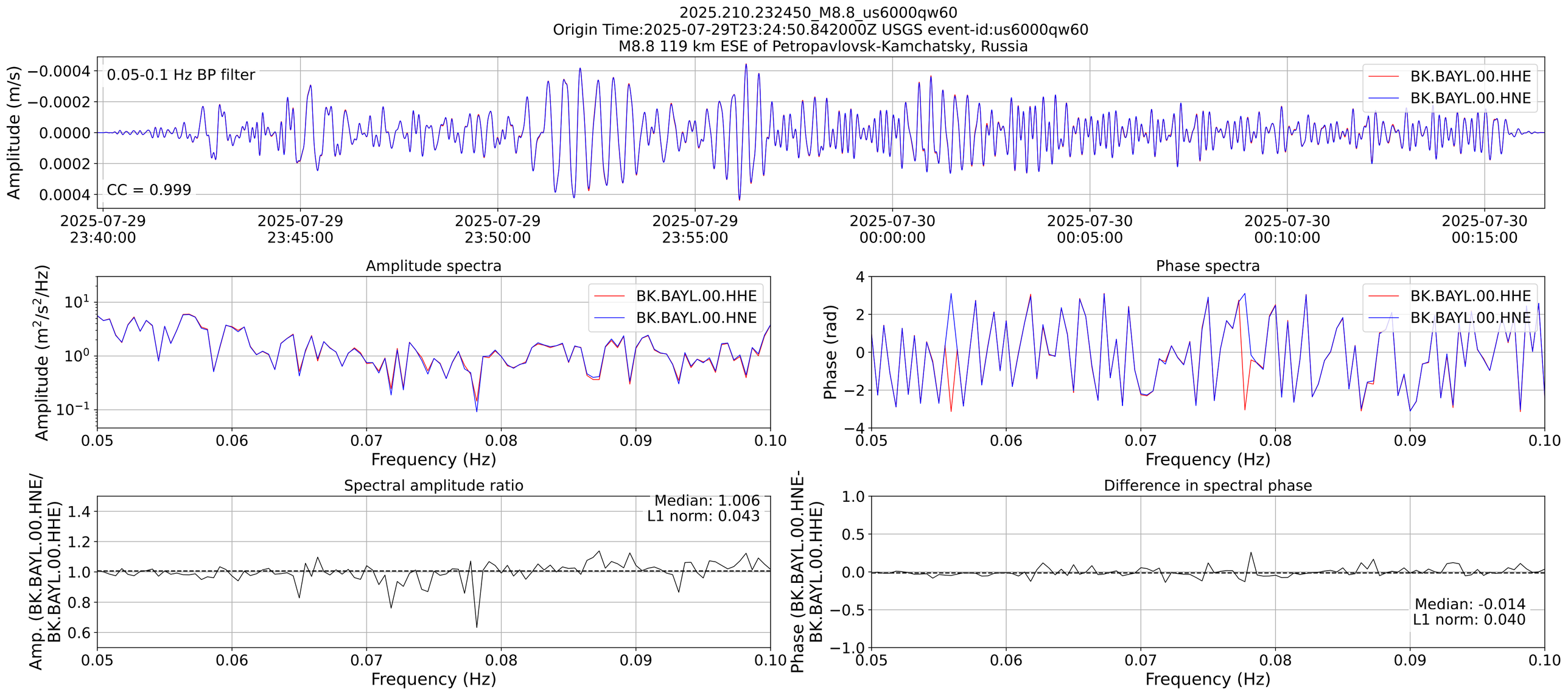

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BABI.00.HHN
BK.BABI.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNN/ BK.BABI.00.HHN)
Median: 1.066
L1 norm: 0.059
Difference in spectral phase
Phase (BK.BABI.00.HNN-BK.BABI.00.HHN)
Median: -0.021
L1 norm: 0.056

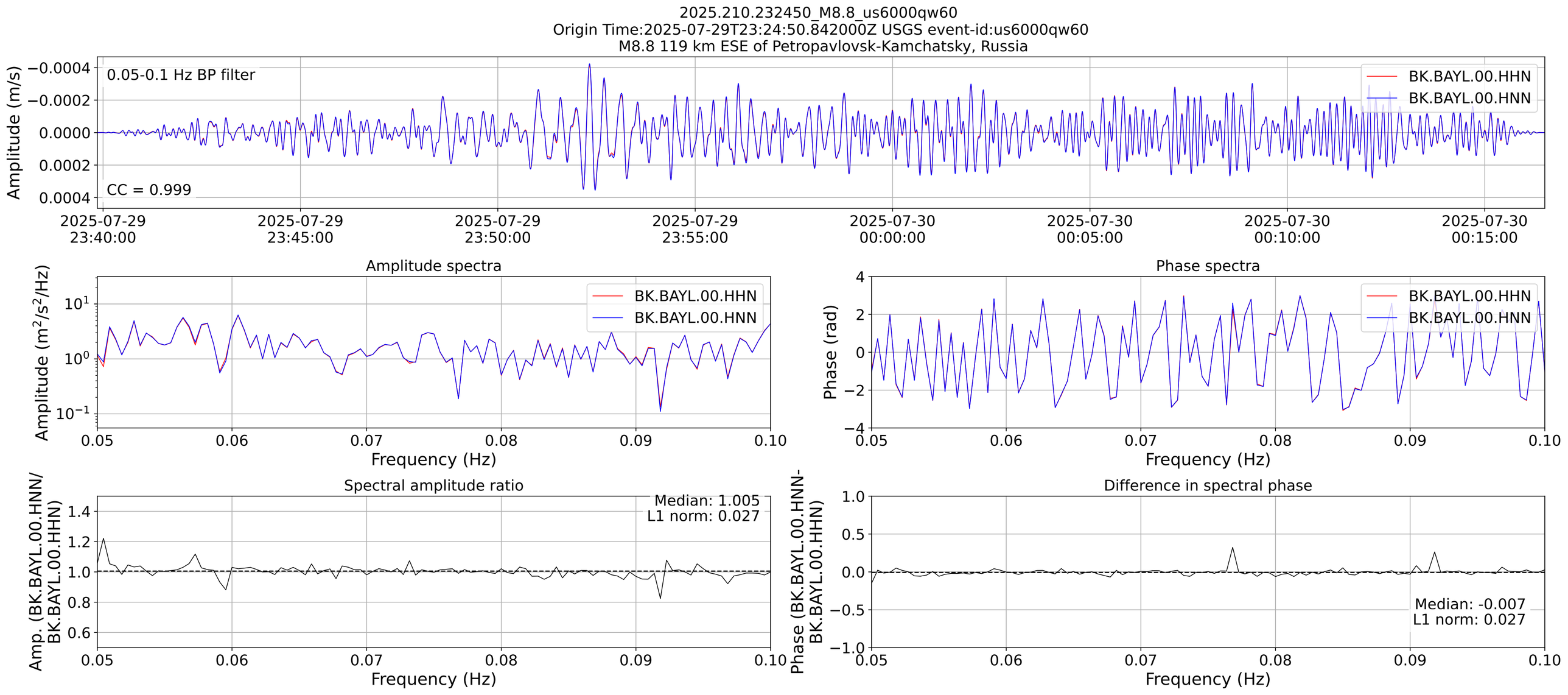

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BABI.00.HHZ
BK.BABI.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNZ/ BK.BABI.00.HHZ)
Median: 1.027
L1 norm: 0.044
Difference in spectral phase
Phase (BK.BABI.00.HNZ- BK.BABI.00.HHZ)
Median: -0.012
L1 norm: 0.035

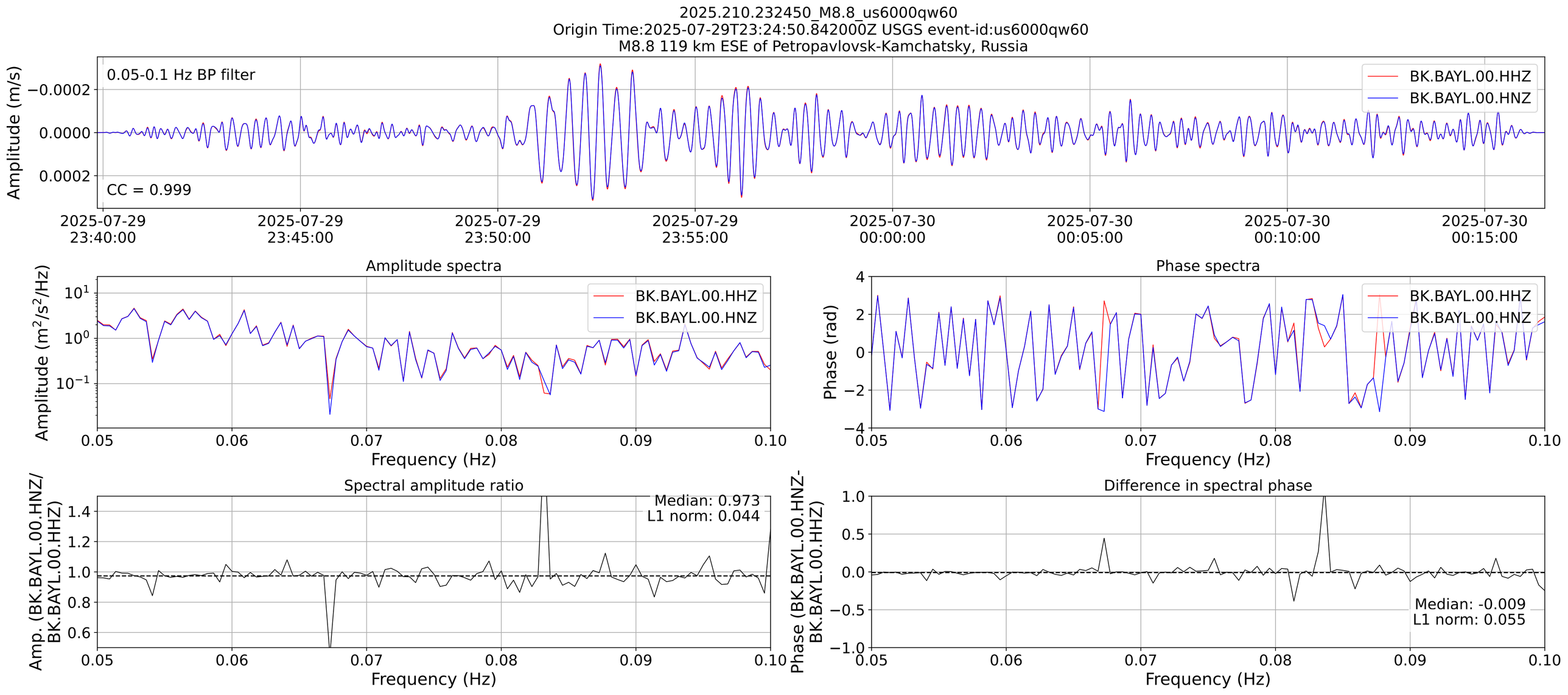

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BAKR.00.HHE
BK.BAKR.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNE/ BK.BAKR.00.HHE)
Median: 0.987
L1 norm: 0.015
Difference in spectral phase
Phase (BK.BAKR.00.HNE- BK.BAKR.00.HHE)
Median: -0.001
L1 norm: 0.016

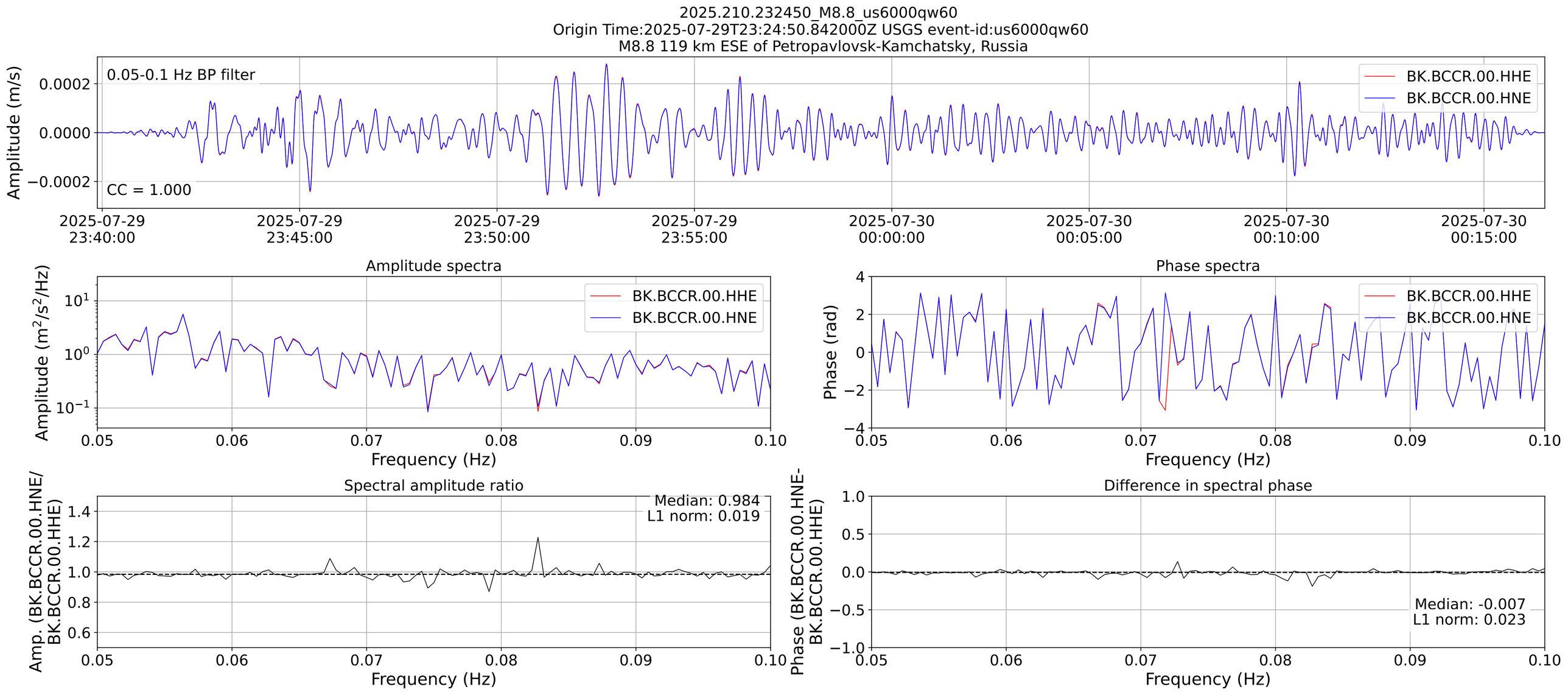

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BAKR.00.HHN
BK.BAKR.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNN/ BK.BAKR.00.HHN)
Median: 0.979
L1 norm: 0.022
Difference in spectral phase
Phase (BK.BAKR.00.HNN- BK.BAKR.00.HHN)
Median: -0.003
L1 norm: 0.022

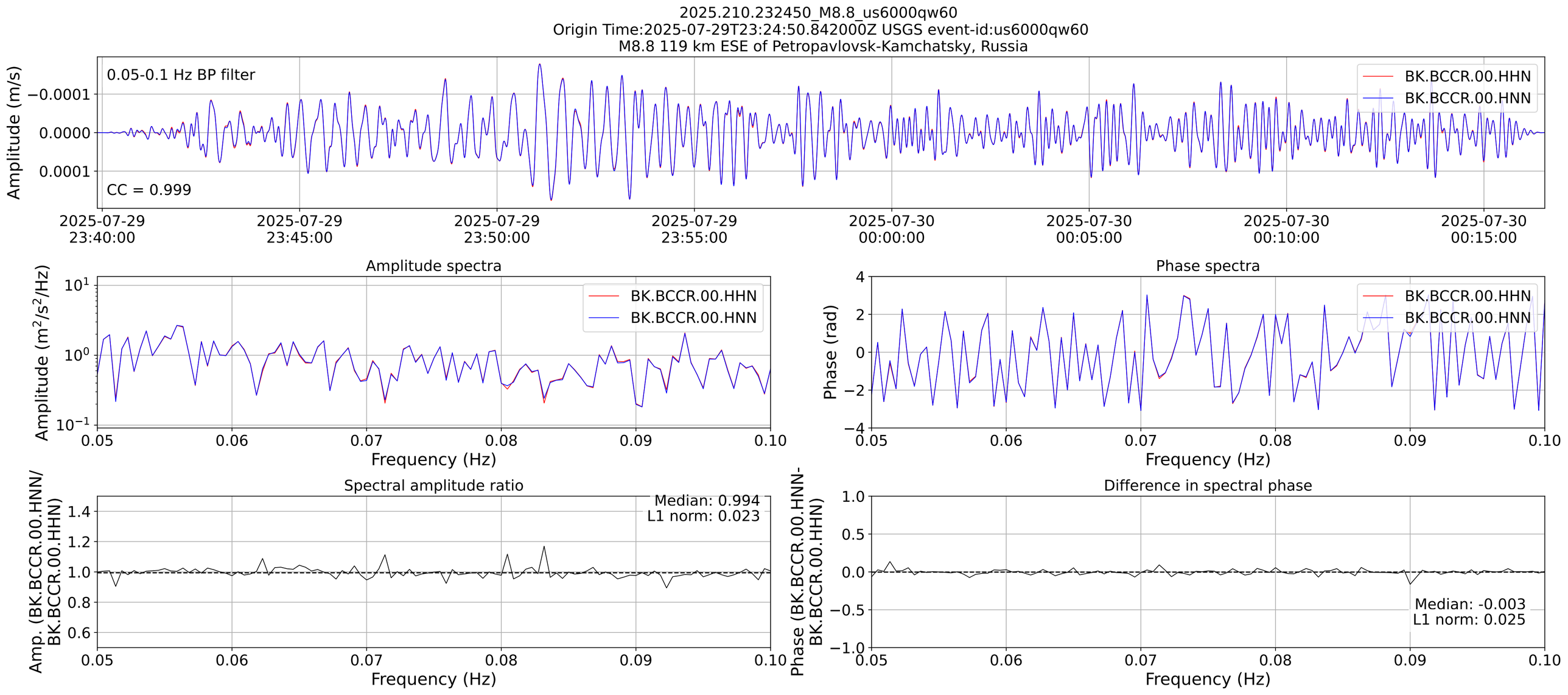

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BAKR.00.HHZ
BK.BAKR.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNZ/ BK.BAKR.00.HHZ)
Median: 0.991
L1 norm: 0.026
Difference in spectral phase
Phase (BK.BAKR.00.HNZ- BK.BAKR.00.HHZ)
Median: 0.003
L1 norm: 0.026

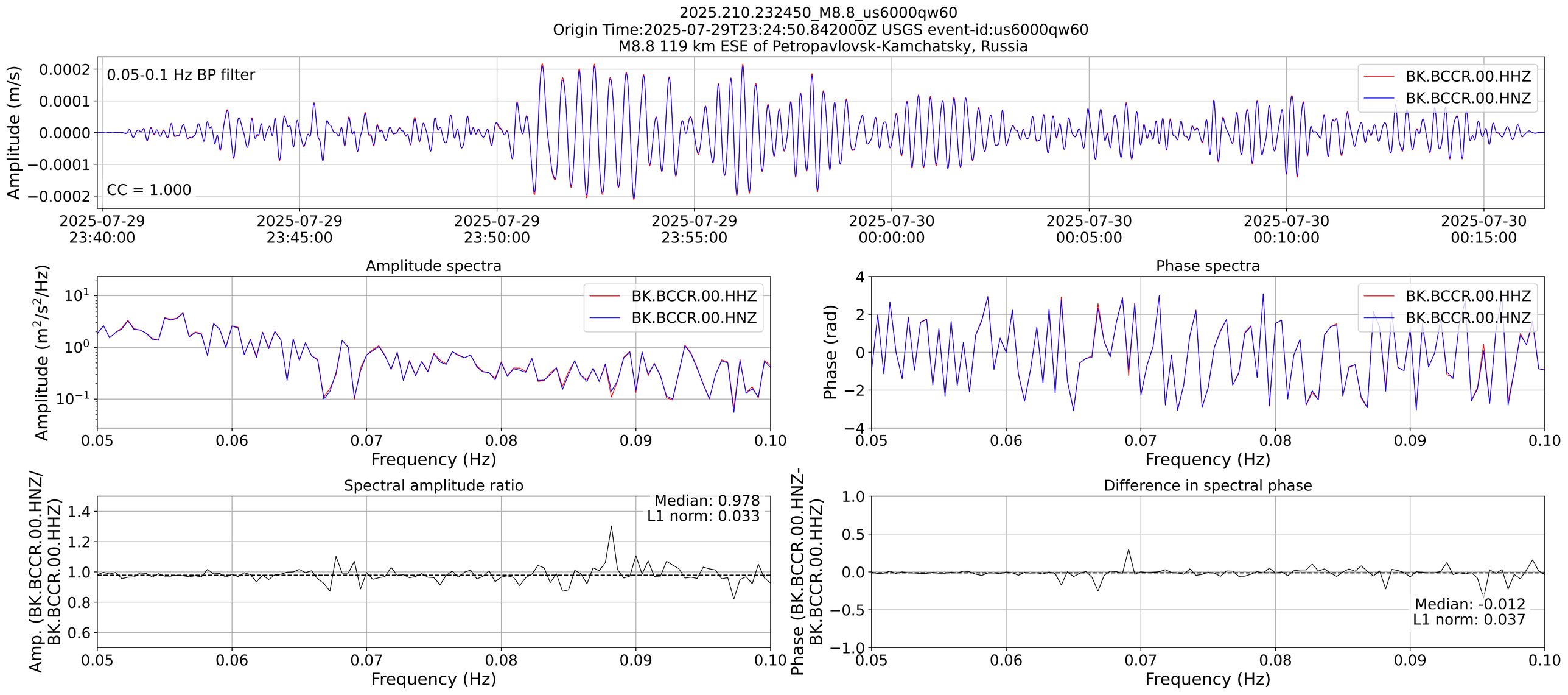

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BAYL.00.HHE
BK.BAYL.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNE/ BK.BAYL.00.HHE)
Median: 1.006
L1 norm: 0.043
Difference in spectral phase
Phase (BK.BAYL.00.HNE- BK.BAYL.00.HHE)
Median: -0.014
L1 norm: 0.040

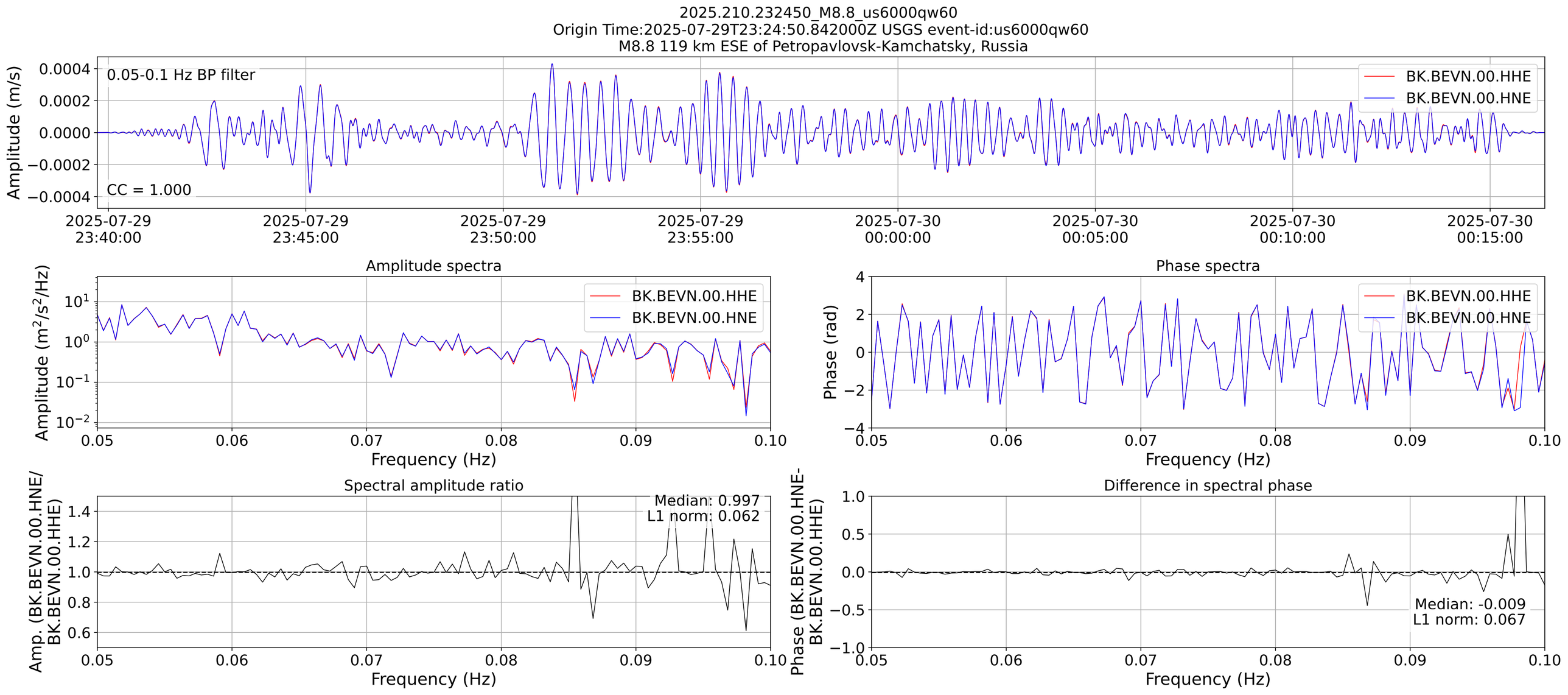

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BAYL.00.HHN
BK.BAYL.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNN/ BK.BAYL.00.HHN)
Median: 1.005
L1 norm: 0.027
Difference in spectral phase
Phase (BK.BAYL.00.HNN- BK.BAYL.00.HHN)
Median: -0.007
L1 norm: 0.027

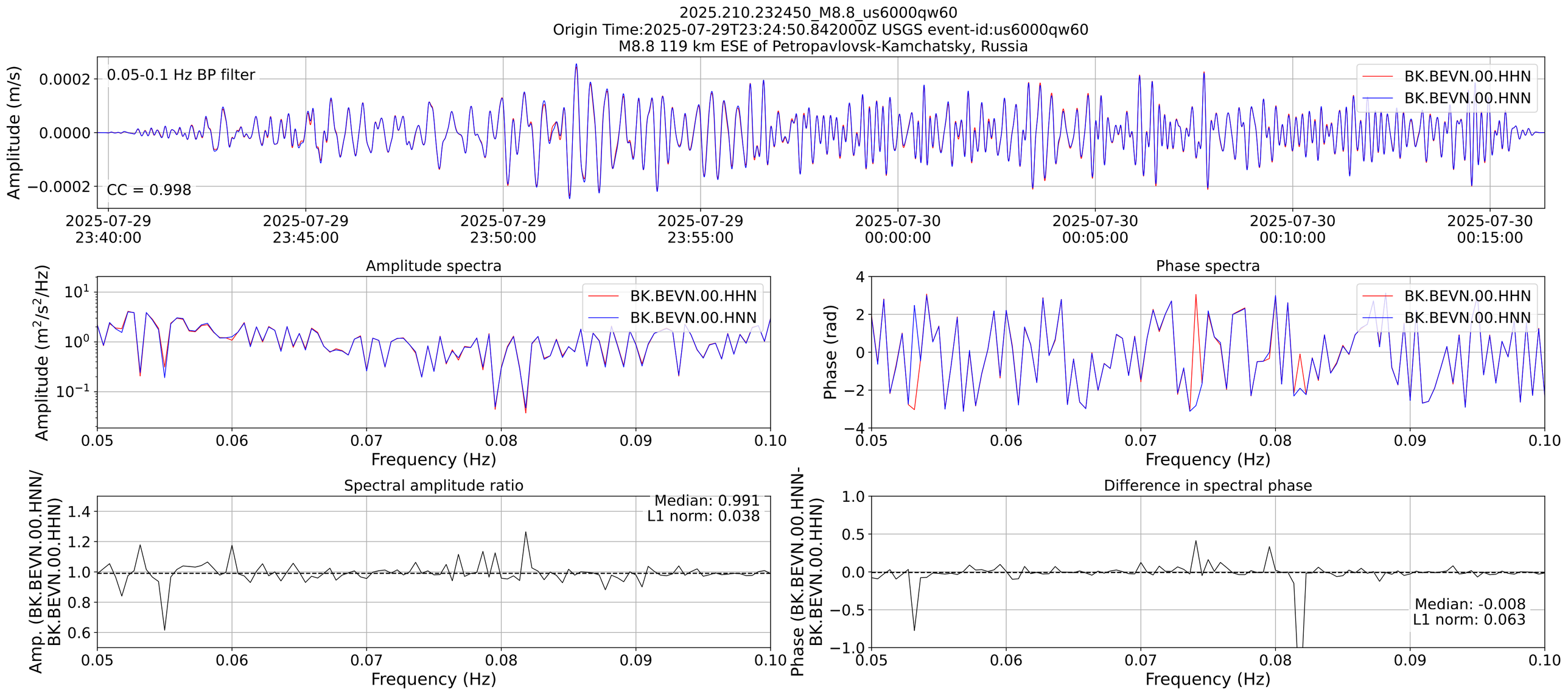

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BAYL.00.HHZ
BK.BAYL.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNZ/ BK.BAYL.00.HHZ)
Median: 0.973
L1 norm: 0.044
Difference in spectral phase
Phase (BK.BAYL.00.HNZ-BK.BAYL.00.HHZ)
Median: -0.009
L1 norm: 0.055

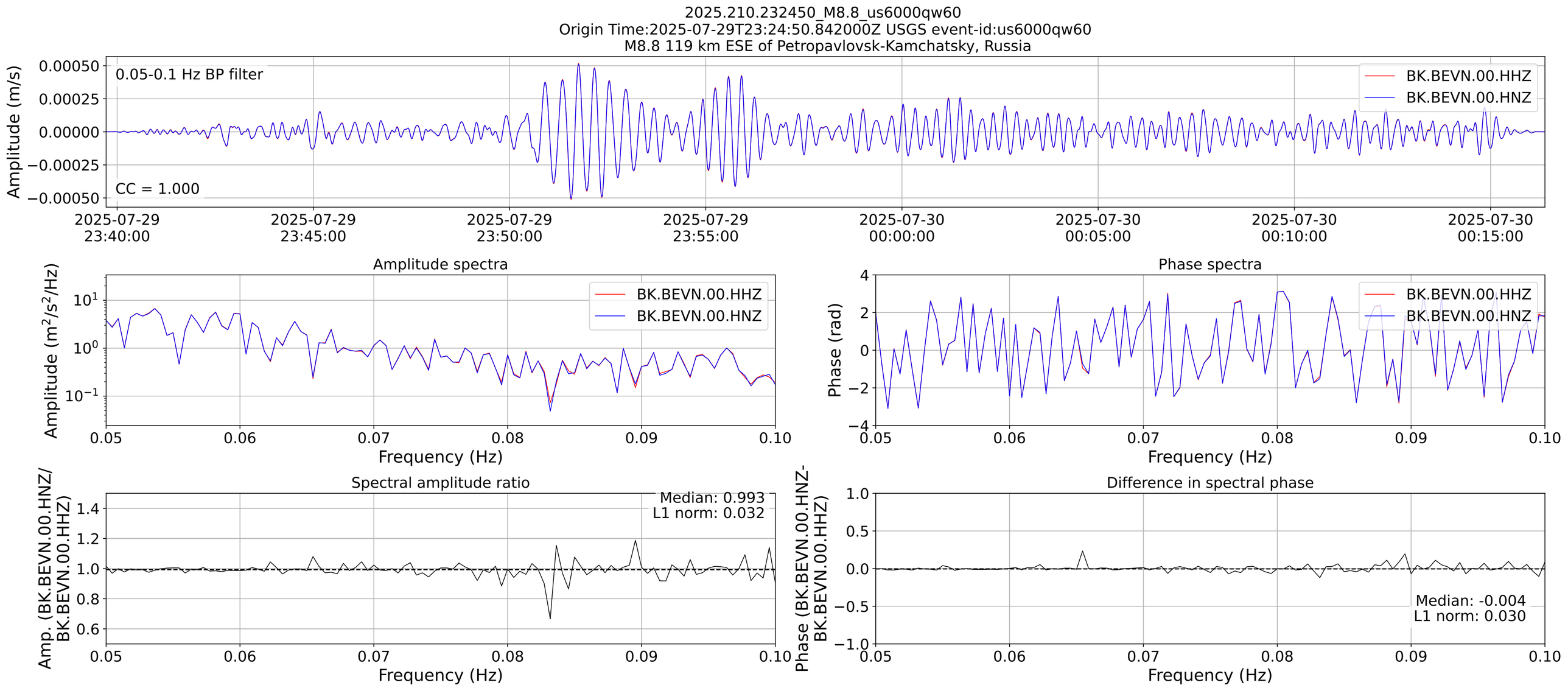

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BCCR.00.HHE
BK.BCCR.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNE/ BK.BCCR.00.HHE)
Median: 0.984
L1 norm: 0.019
Difference in spectral phase
Phase (BK.BCCR.00.HNE- BK.BCCR.00.HHE)
Median: -0.007
L1 norm: 0.023

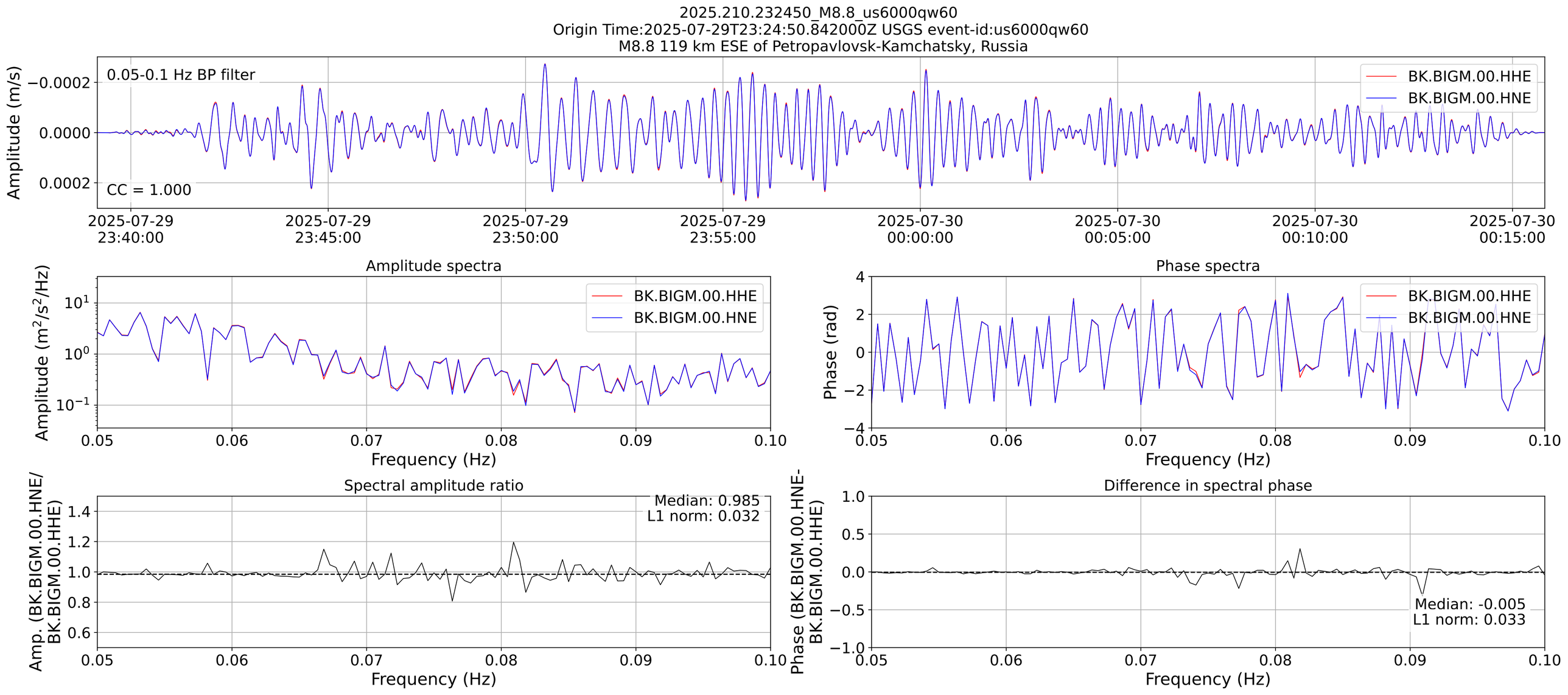

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BCCR.00.HHN
BK.BCCR.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNN/ BK.BCCR.00.HHN)
Median: 0.994
L1 norm: 0.023
Difference in spectral phase
Phase (BK.BCCR.00.HNN- BK.BCCR.00.HHN)
Median: -0.003
L1 norm: 0.025

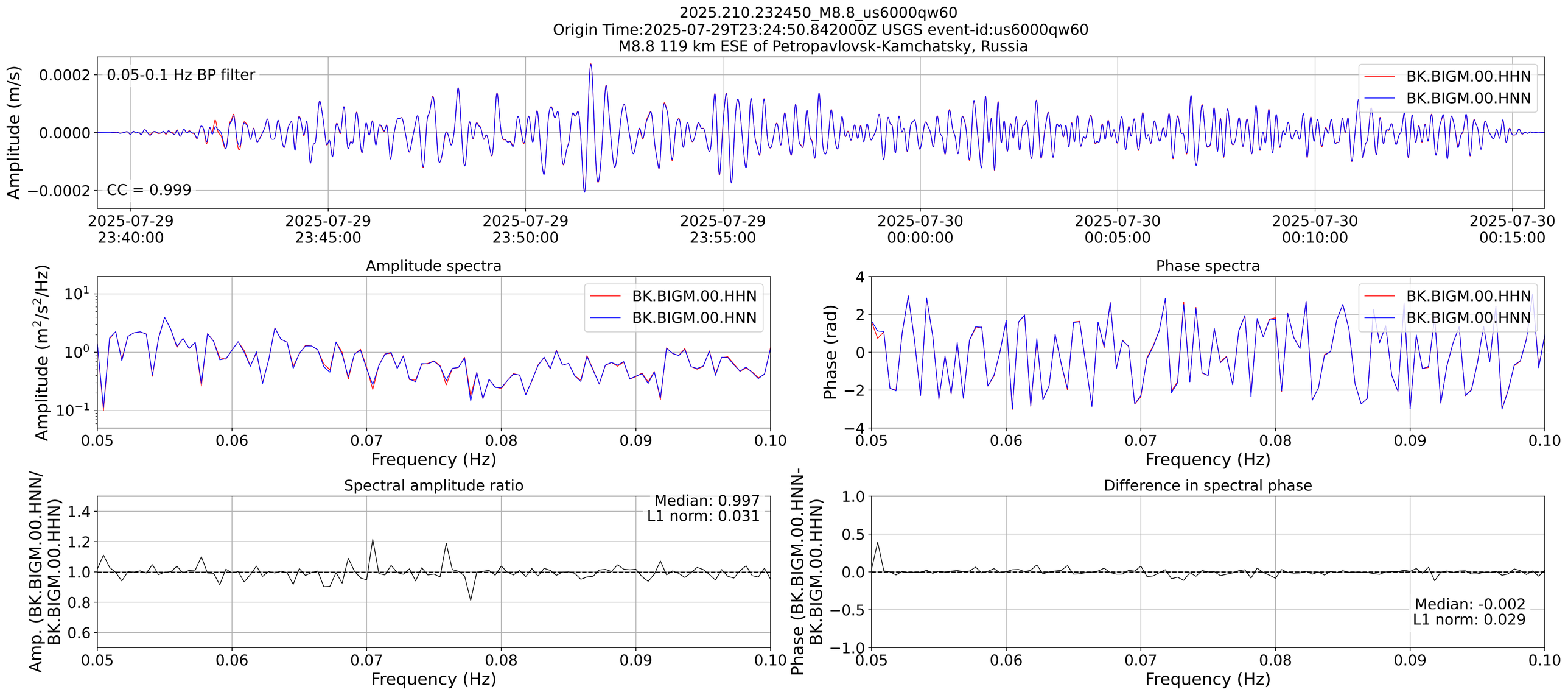

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BCCR.00.HHZ
BK.BCCR.00.HNZ
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNZ/ BK.BCCR.00.HHZ)
Median: 0.978
L1 norm: 0.033
Difference in spectral phase
Phase (BK.BCCR.00.HNZ- BK.BCCR.00.HHZ)
Median: -0.012
L1 norm: 0.037

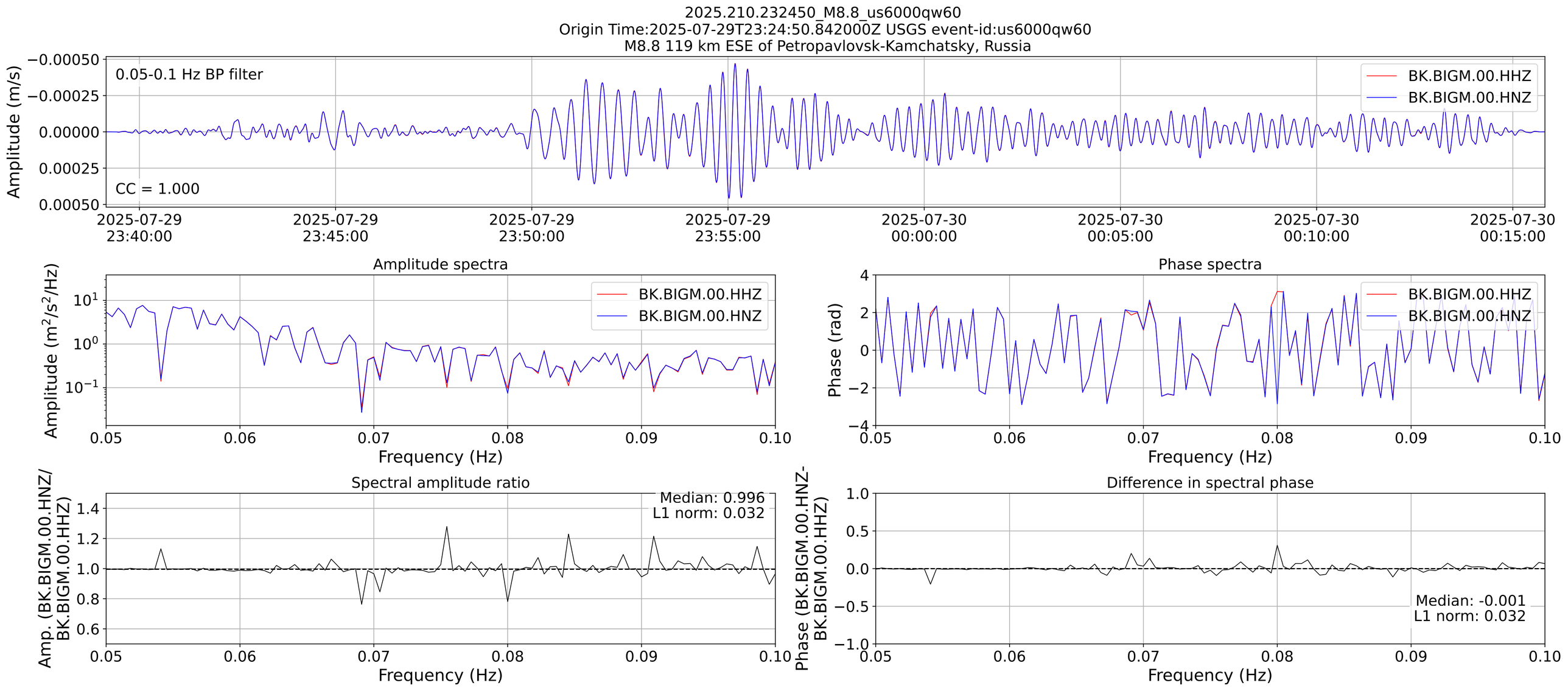

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BEVN.00.HHE
BK.BEVN.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNE/ BK.BEVN.00.HHE)
Median: 0.997
L1 norm: 0.062
Difference in spectral phase
Phase (BK.BEVN.00.HNE- BK.BEVN.00.HHE)
Median: -0.009
L1 norm: 0.067

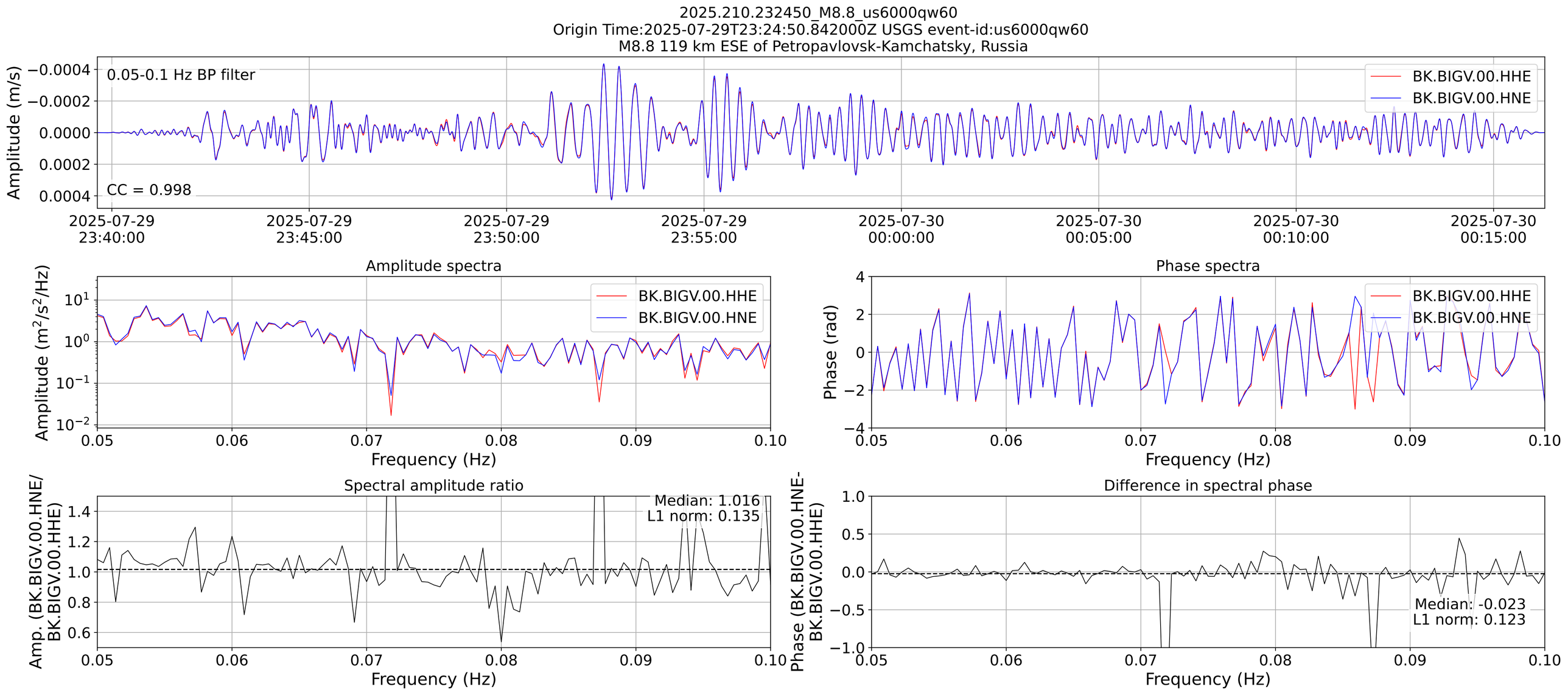

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BEVN.00.HHN
BK.BEVN.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNN/ BK.BEVN.00.HHN)
Median: 0.991
L1 norm: 0.038
Difference in spectral phase
Phase (BK.BEVN.00.HNN- BK.BEVN.00.HHN)
Median: -0.008
L1 norm: 0.063

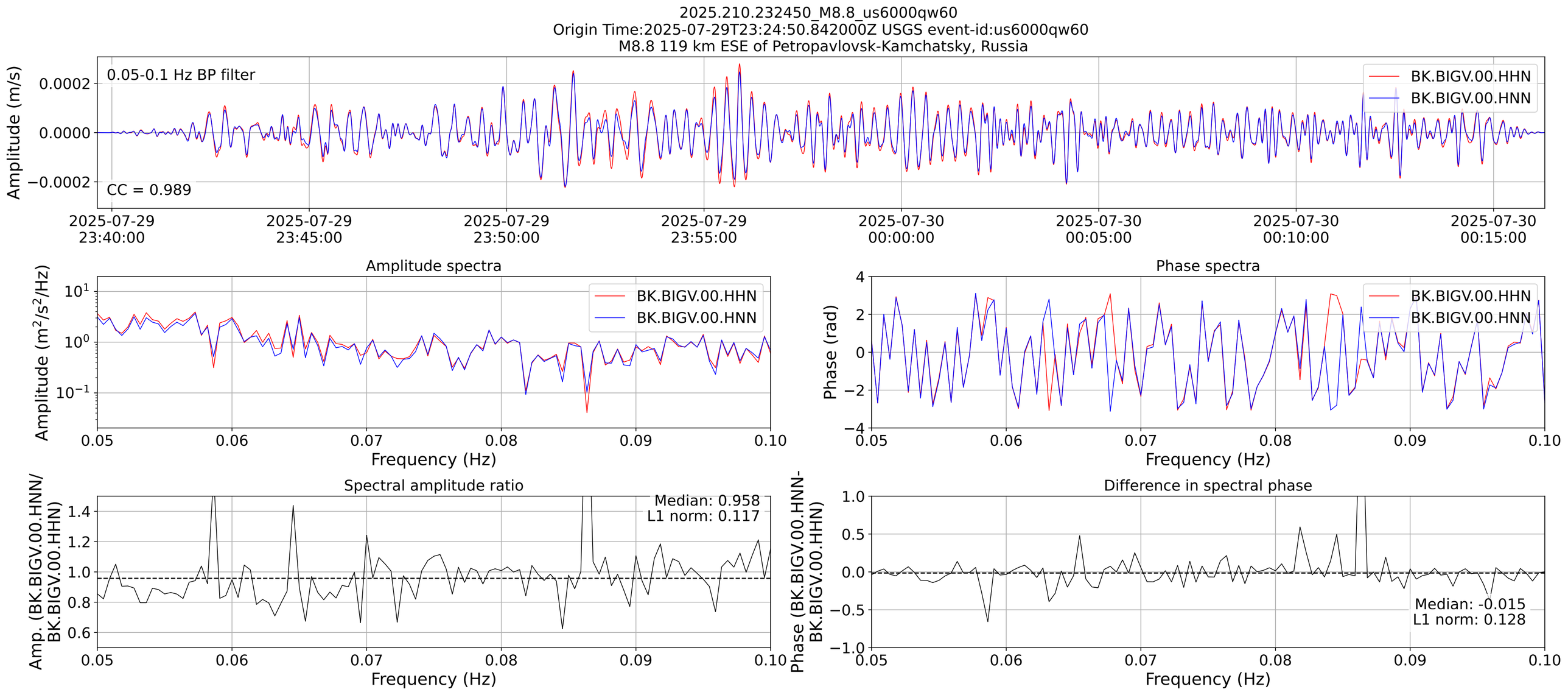

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BEVN.00.HHZ
BK.BEVN.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNZ/ BK.BEVN.00.HHZ)
Median: 0.993
L1 norm: 0.032
Difference in spectral phase
Phase (BK.BEVN.00.HNZ- BK.BEVN.00.HHZ)
Median: -0.004
L1 norm: 0.030

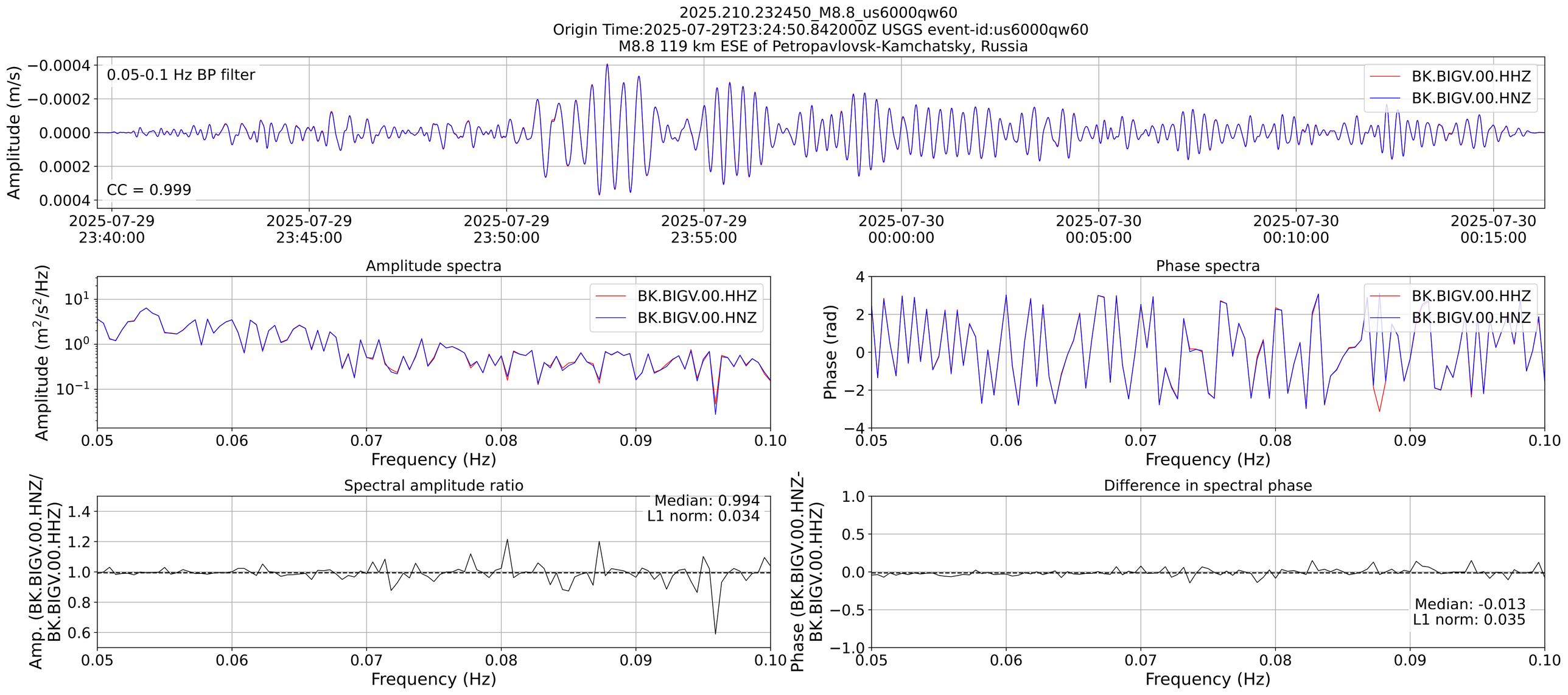

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BIGM.00.HHE
BK.BIGM.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNE/ BK.BIGM.00.HHE)
Median: 0.985
L1 norm: 0.032
Difference in spectral phase
Phase (BK.BIGM.00.HNE- BK.BIGM.00.HHE)
Median: -0.005
L1 norm: 0.033

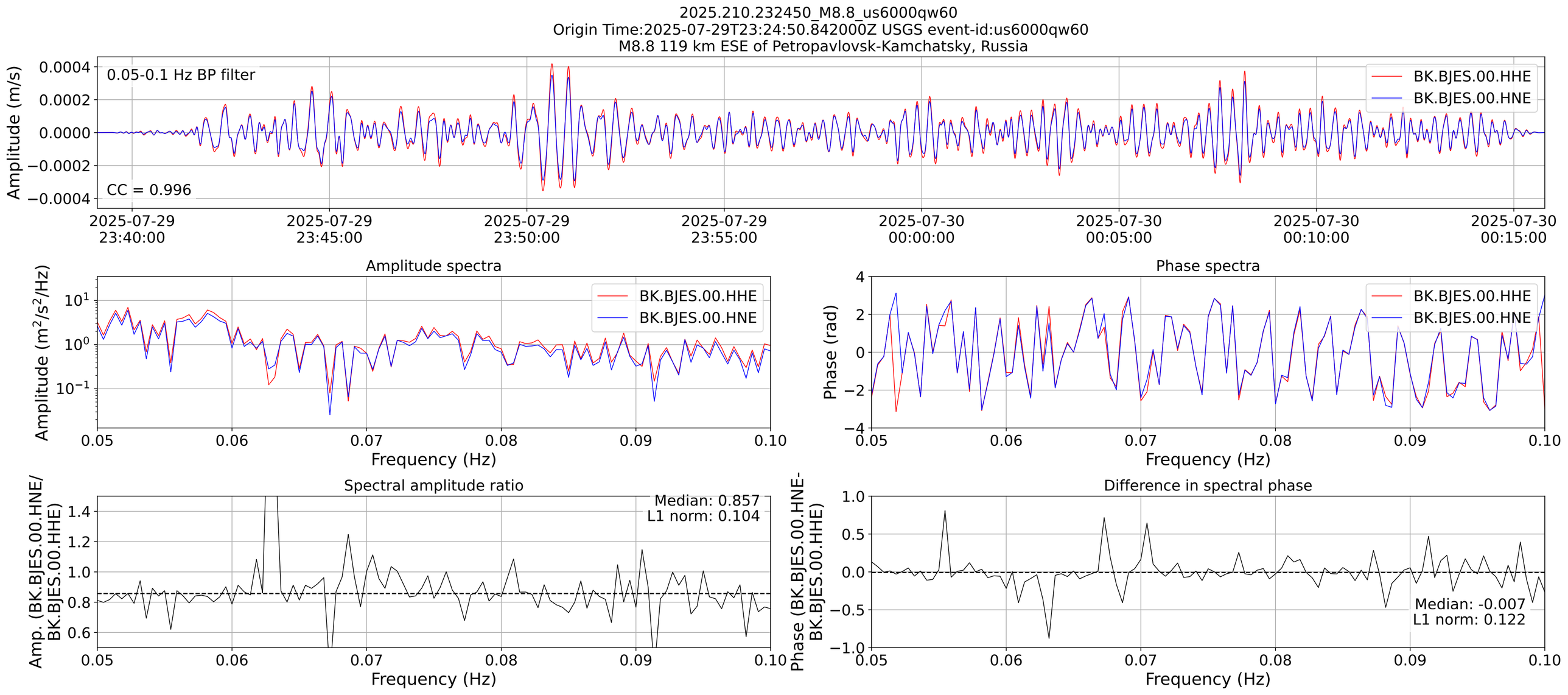

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BIGM.00.HHN
BK.BIGM.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNN/ BK.BIGM.00.HHN)
Median: 0.997
L1 norm: 0.031
Difference in spectral phase
Phase (BK.BIGM.00.HNN-BK.BIGM.00.HHN)
Median: -0.002
L1 norm: 0.029

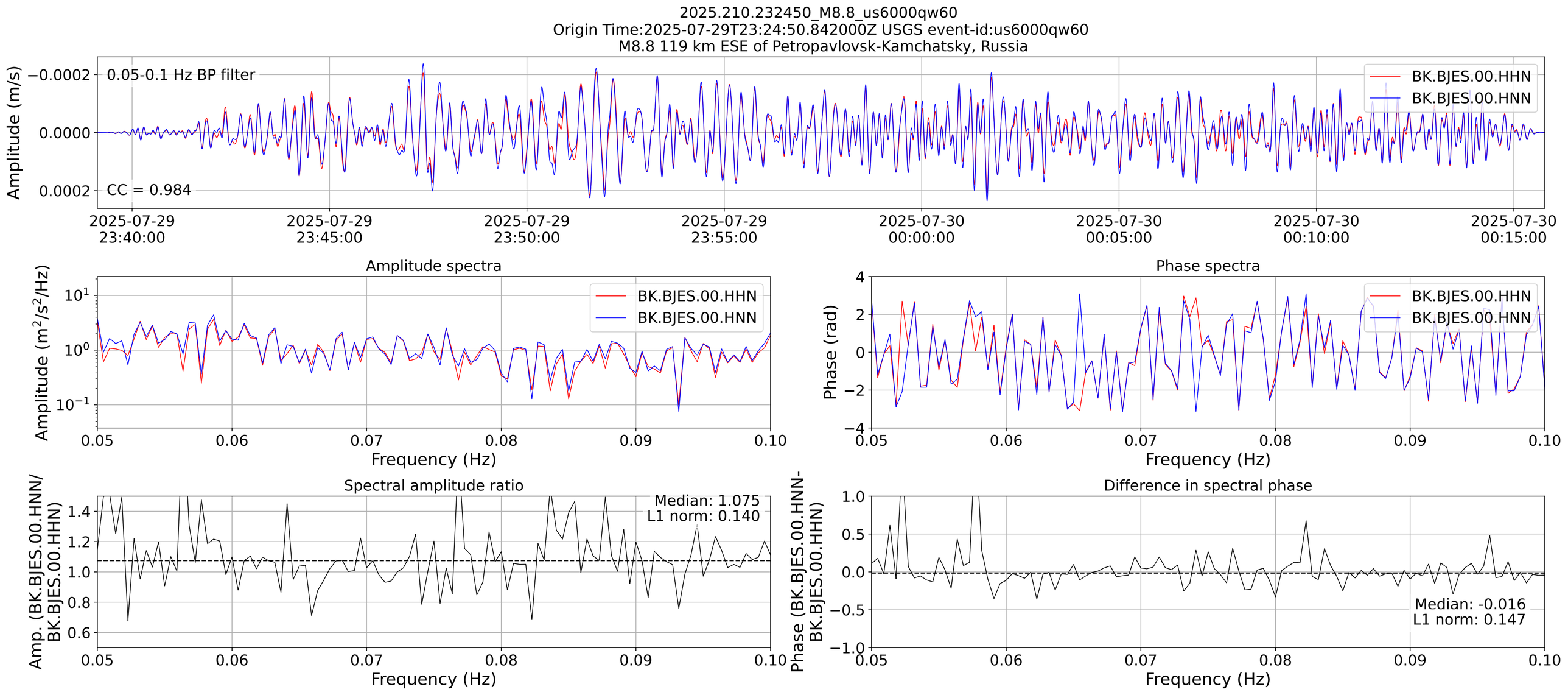

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BIGM.00.HHZ
BK.BIGM.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNZ/ BK.BIGM.00.HHZ)
Median: 0.996
L1 norm: 0.032
Difference in spectral phase
Phase (BK.BIGM.00.HNZ- BK.BIGM.00.HHZ)
Median: -0.001
L1 norm: 0.032

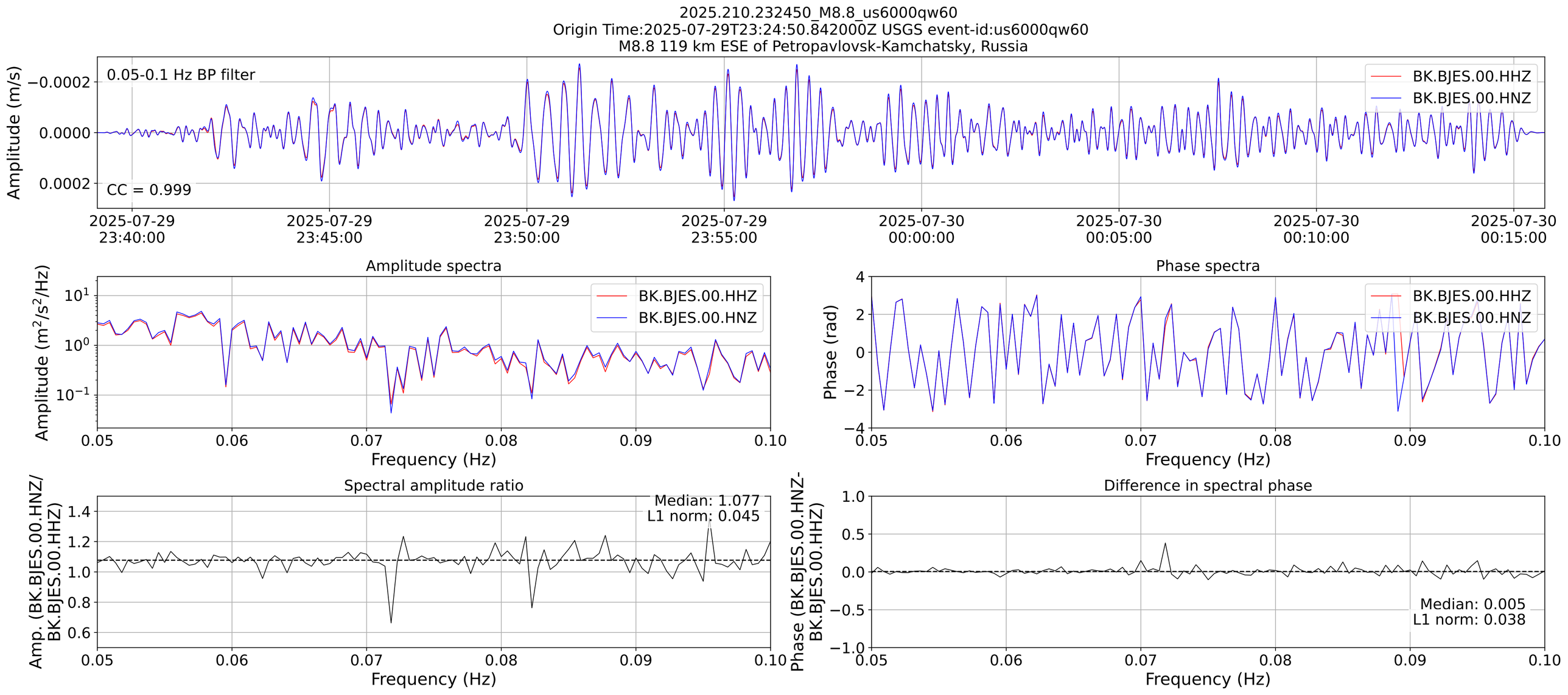

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BIGV.00.HHE
BK.BIGV.00.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNE/ BK.BIGV.00.HHE)
Median: 1.016
L1 norm: 0.135
Difference in spectral phase
Phase (BK.BIGV.00.HNE- BK.BIGV.00.HHE)
Median: -0.023
L1 norm: 0.123

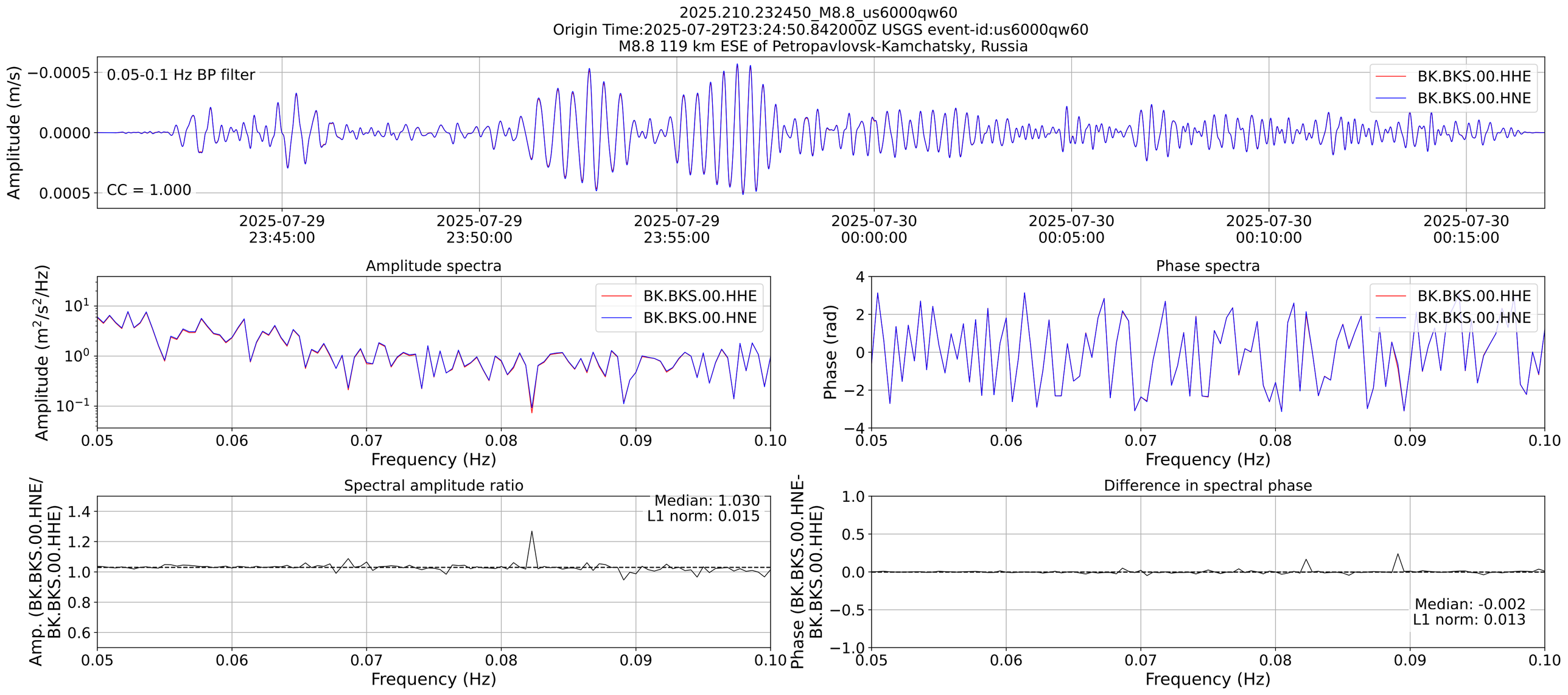

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.989
BK.BIGV.00.HHN
BK.BIGV.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNN/ BK.BIGV.00.HHN)
Median: 0.958
L1 norm: 0.117
Difference in spectral phase
Phase (BK.BIGV.00.HNN- BK.BIGV.00.HHN)
Median: -0.015
L1 norm: 0.128

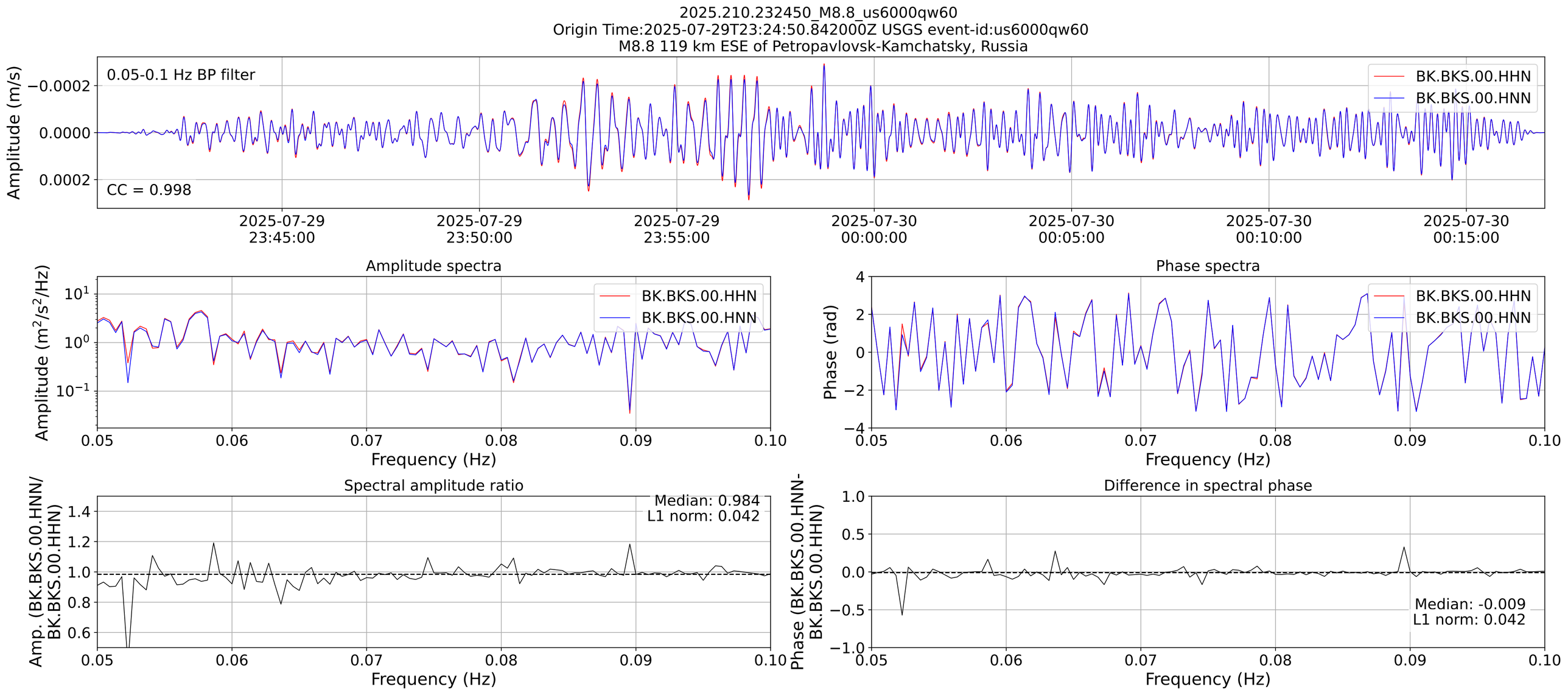

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BIGV.00.HHZ
BK.BIGV.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNZ/ BK.BIGV.00.HHZ)
Median: 0.994
L1 norm: 0.034
Difference in spectral phase
Phase (BK.BIGV.00.HNZ- BK.BIGV.00.HHZ)
Median: -0.013
L1 norm: 0.035

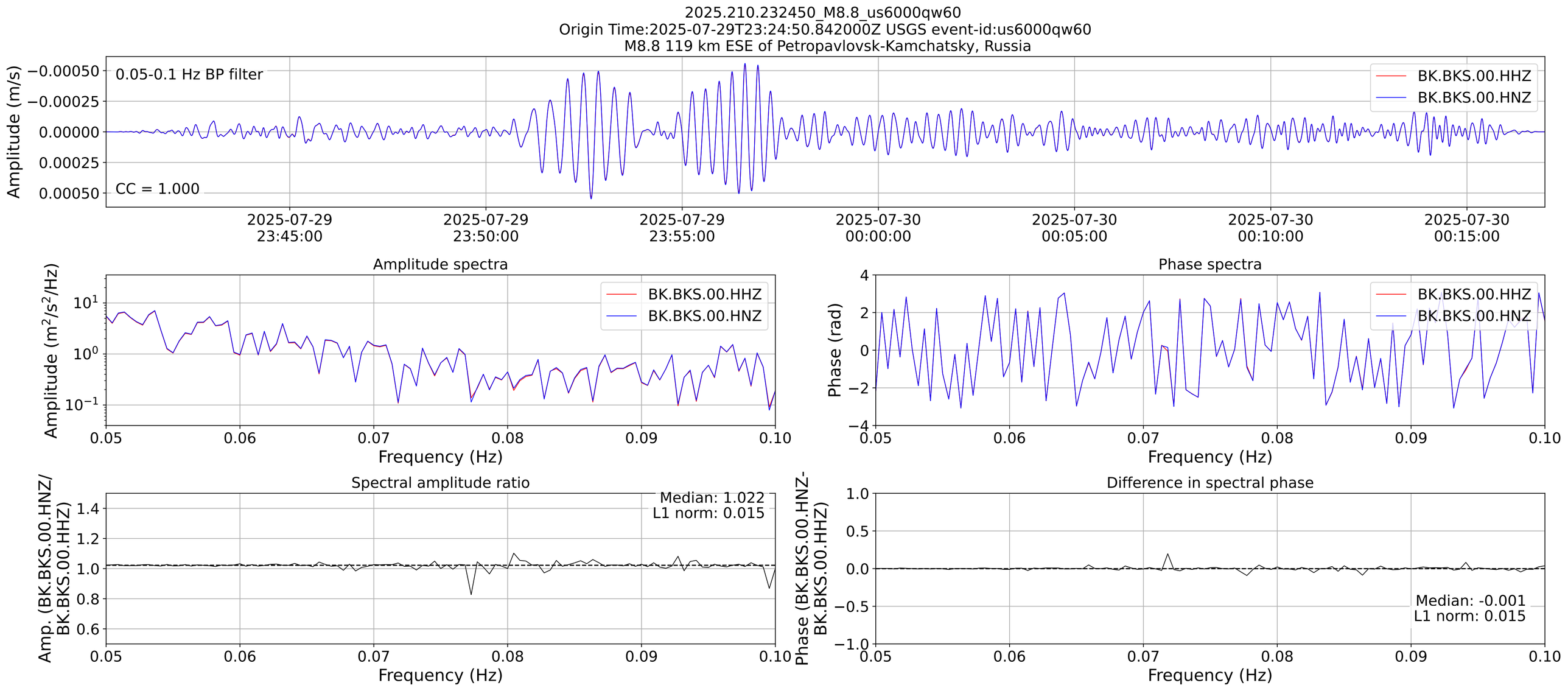

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.996
BK.BJES.00.HHE
BK.BJES.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNE/ BK.BJES.00.HHE)
Median: 0.857
L1 norm: 0.104
Difference in spectral phase
Phase (BK.BJES.00.HNE- BK.BJES.00.HHE)
Median: -0.007
L1 norm: 0.122

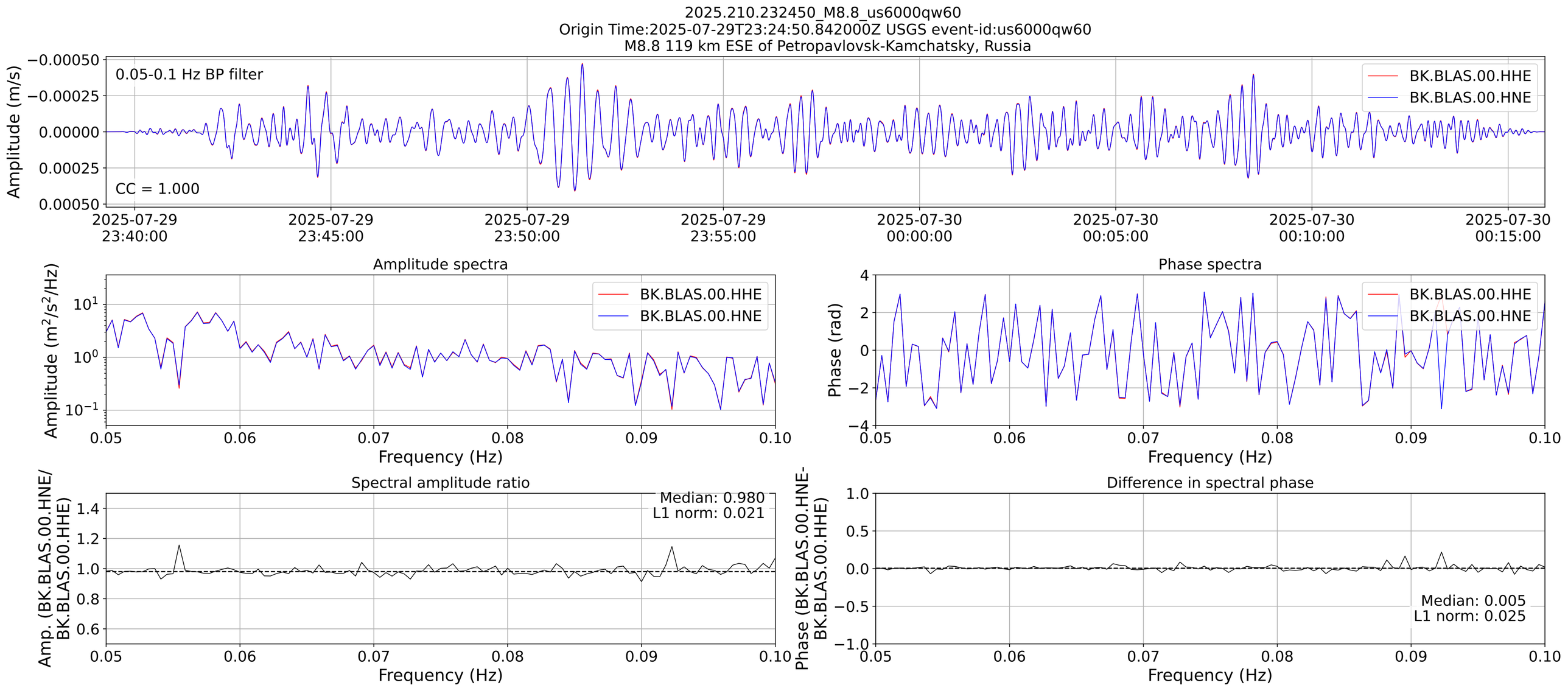

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.984
BK.BJES.00.HHN
BK.BJES.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNN/ BK.BJES.00.HHN)
Median: 1.075
L1 norm: 0.140
Difference in spectral phase
Phase (BK.BJES.00.HNN- BK.BJES.00.HHN)
Median: -0.016
L1 norm: 0.147

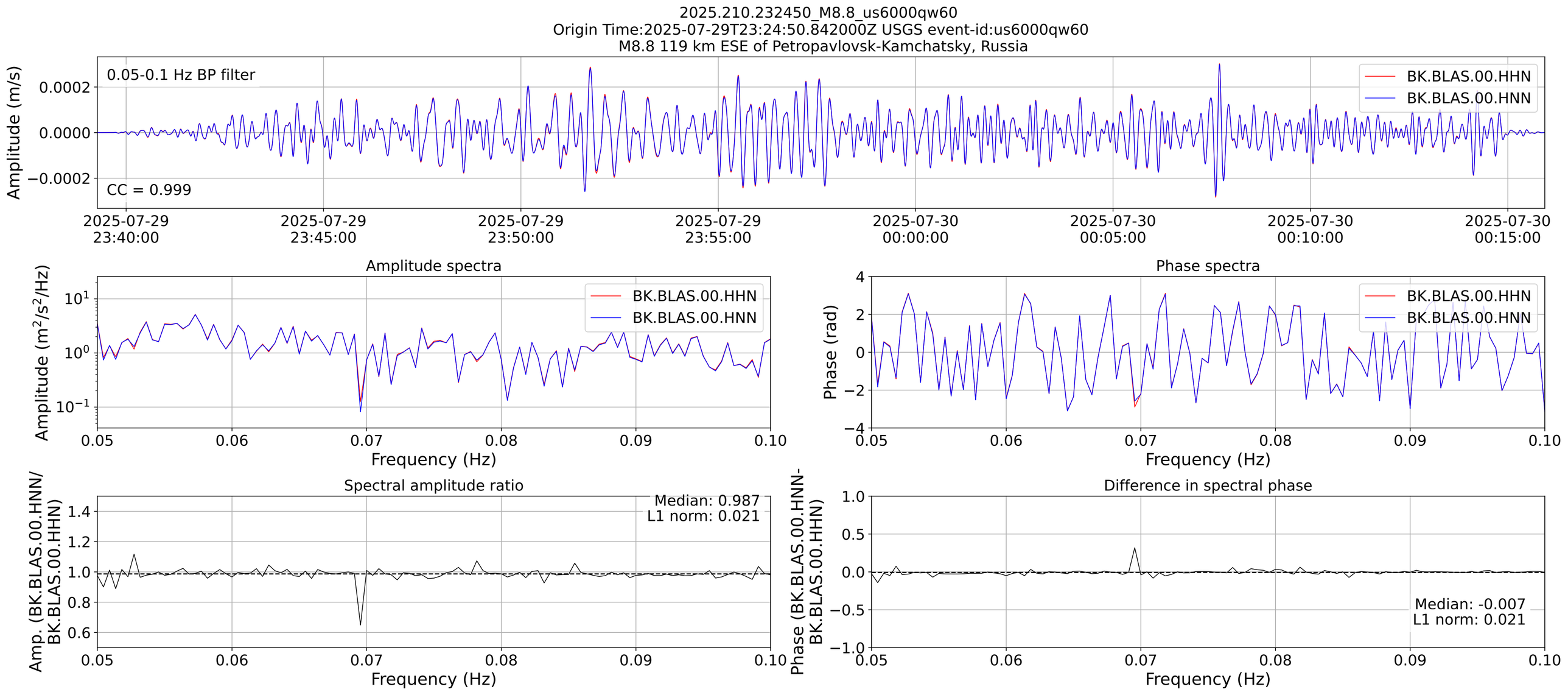

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BJES.00.HHZ
BK.BJES.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNZ/ BK.BJES.00.HHZ)
Median: 1.077
L1 norm: 0.045
Difference in spectral phase
Phase (BK.BJES.00.HNZ-BK.BJES.00.HHZ)
Median: 0.005
L1 norm: 0.038

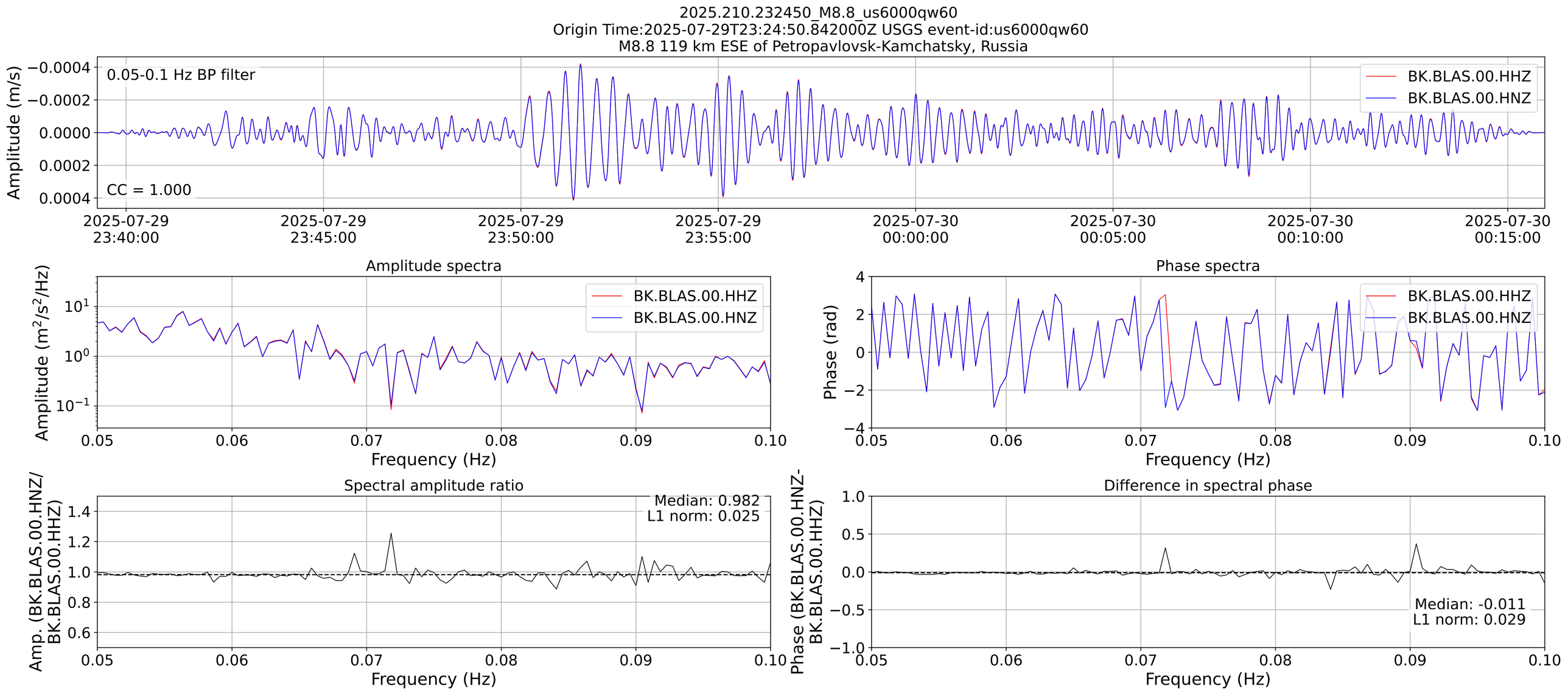

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BKS.00.HHE
BK.BKS.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNE/ BK.BKS.00.HHE)
Median: 1.030
L1 norm: 0.015
Difference in spectral phase
Phase (BK.BKS.00.HNE- BK.BKS.00.HHE)
Median: -0.002
L1 norm: 0.013

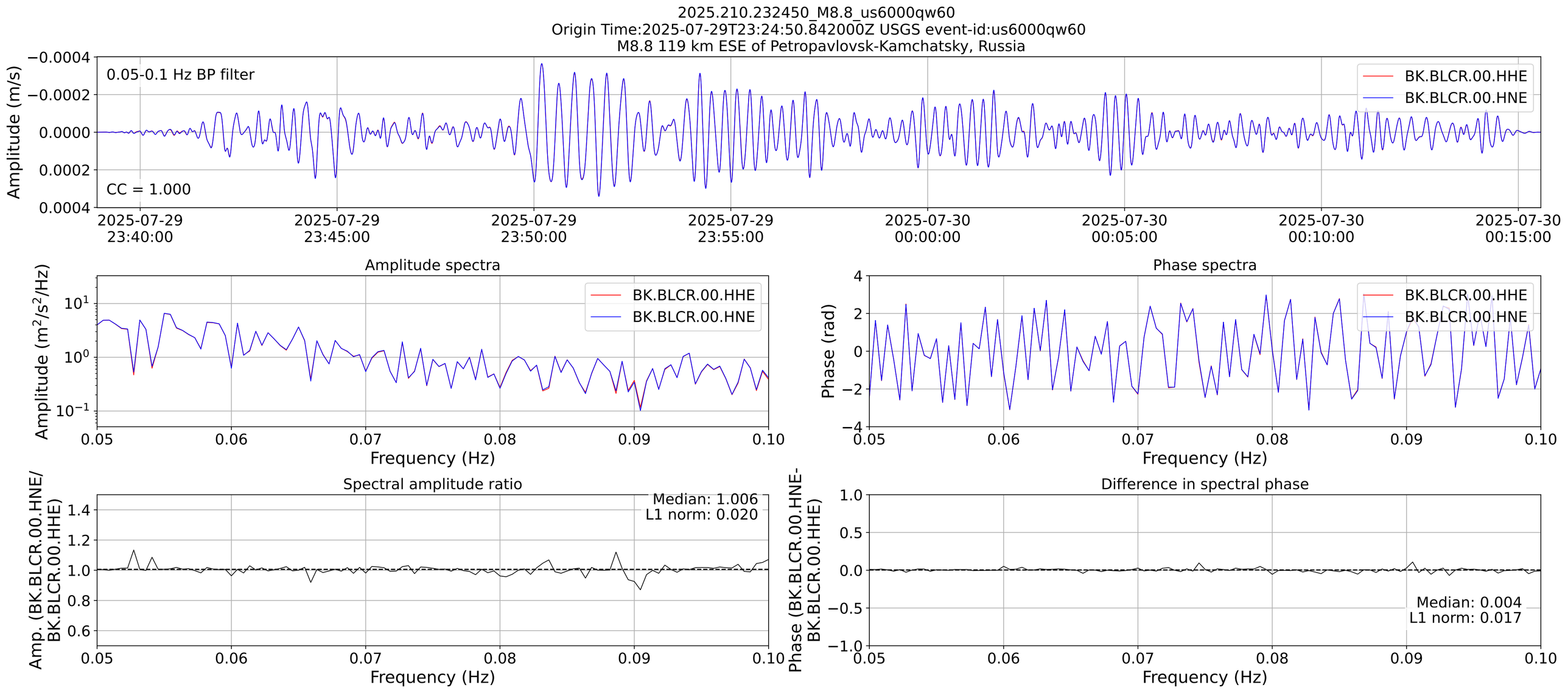

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BKS.00.HHN
BK.BKS.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNN/ BK.BKS.00.HHN)
Median: 0.984
L1 norm: 0.042
Difference in spectral phase
Phase (BK.BKS.00.HNN-BK.BKS.00.HHN)
Median: -0.009
L1 norm: 0.042

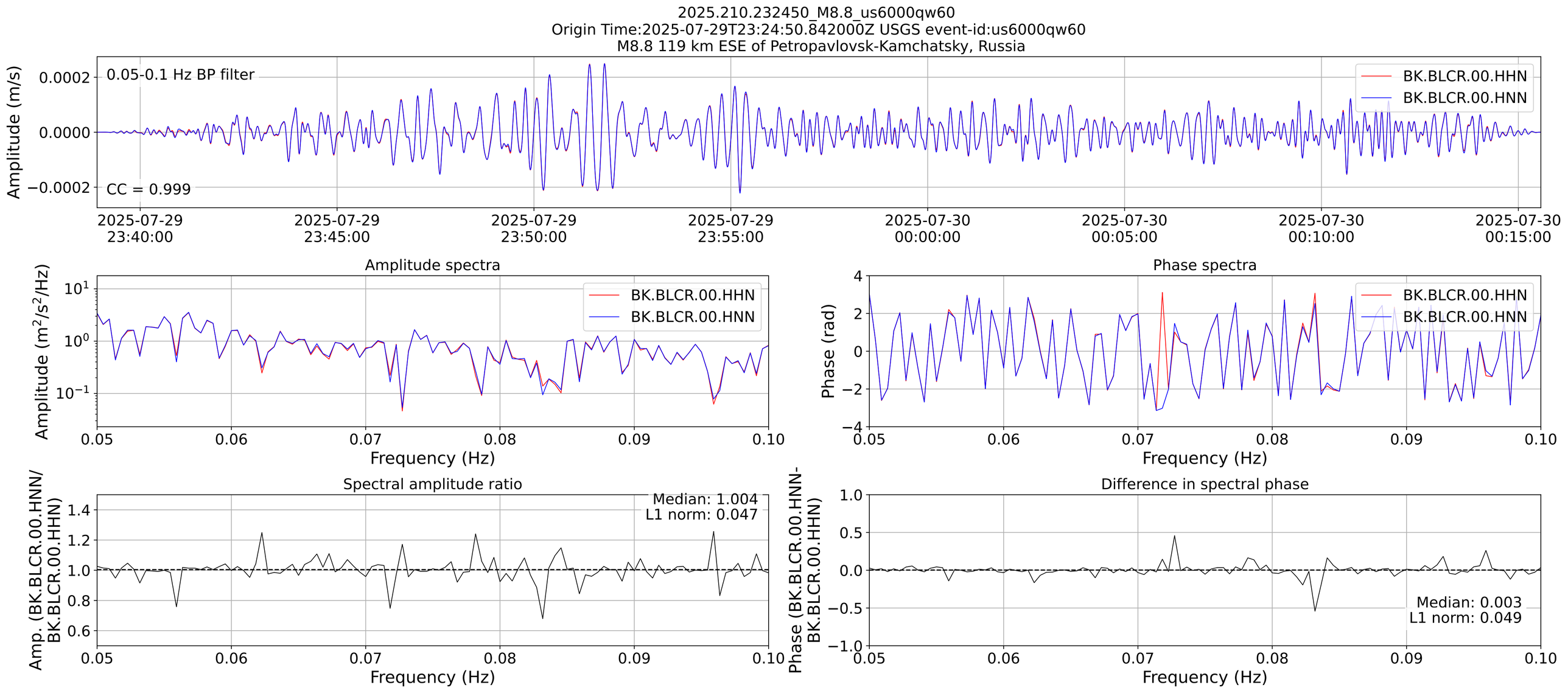

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BKS.00.HHZ
BK.BKS.00.HNZ
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNZ/ BK.BKS.00.HHZ)
Median: 1.022
L1 norm: 0.015
Difference in spectral phase
Phase (BK.BKS.00.HNZ-BK.BKS.00.HHZ)
Median: -0.001
L1 norm: 0.015

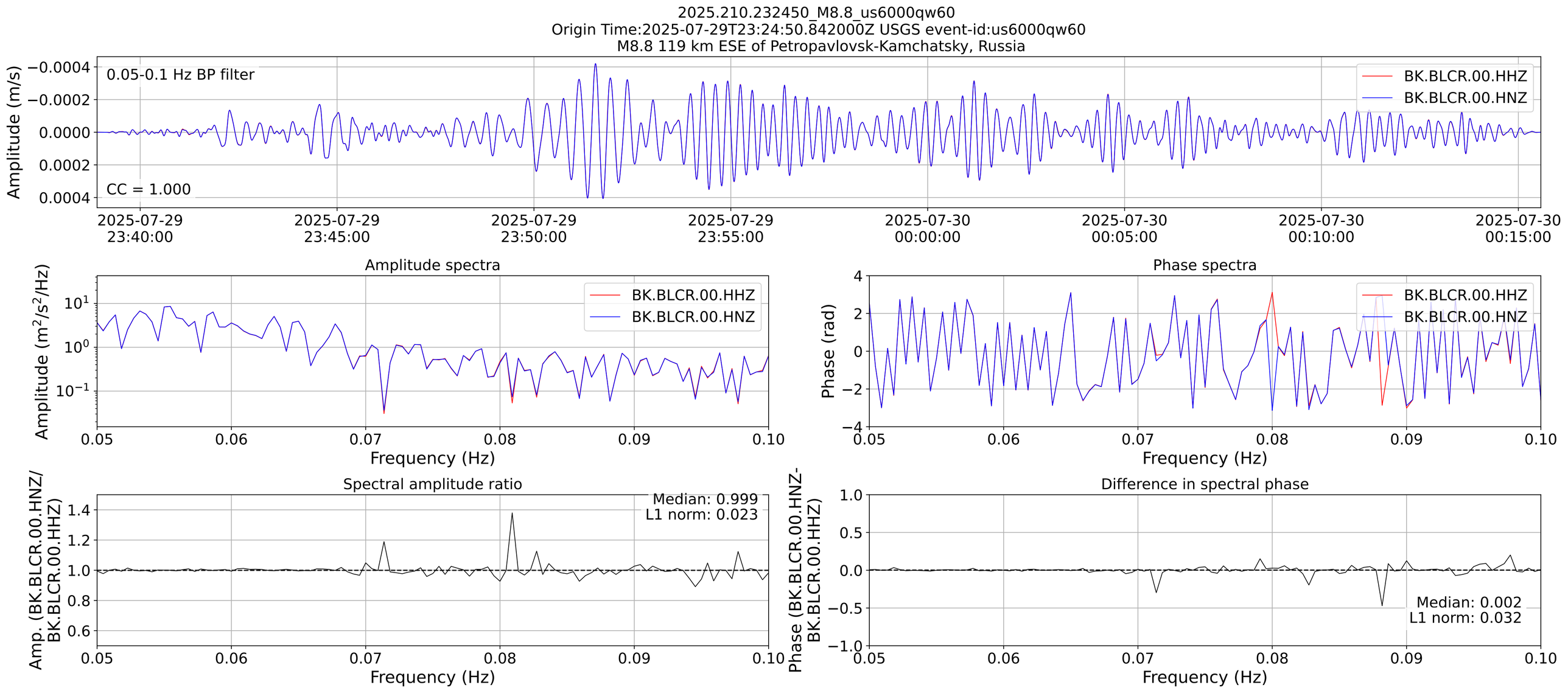

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLAS.00.HHE
BK.BLAS.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNE/ BK.BLAS.00.HHE)
Median: 0.980
L1 norm: 0.021
Difference in spectral phase
Phase (BK.BLAS.00.HNE- BK.BLAS.00.HHE)
Median: 0.005
L1 norm: 0.025

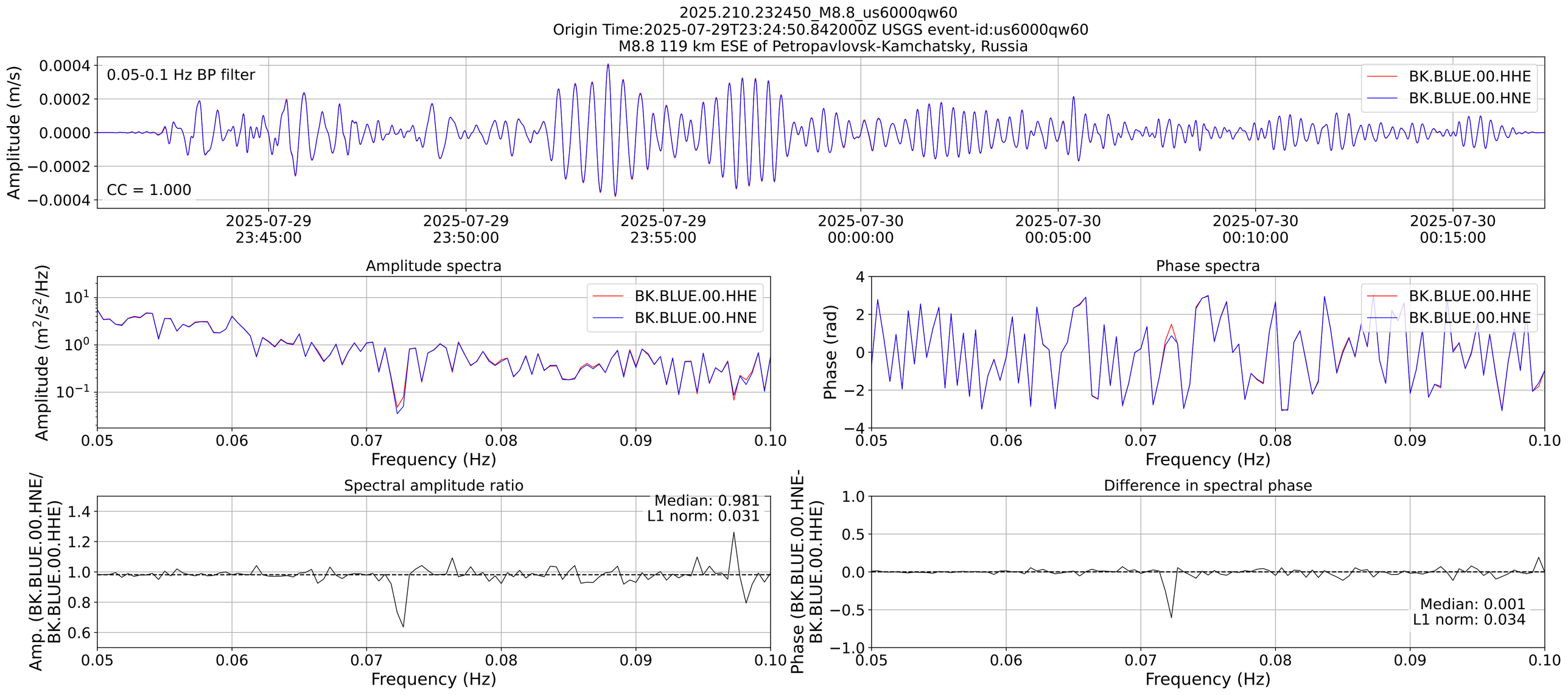

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BLAS.00.HHN
BK.BLAS.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNN/ BK.BLAS.00.HHN)
Median: 0.987
L1 norm: 0.021
Difference in spectral phase
Phase (BK.BLAS.00.HNN-BK.BLAS.00.HHN)
Median: -0.007
L1 norm: 0.021

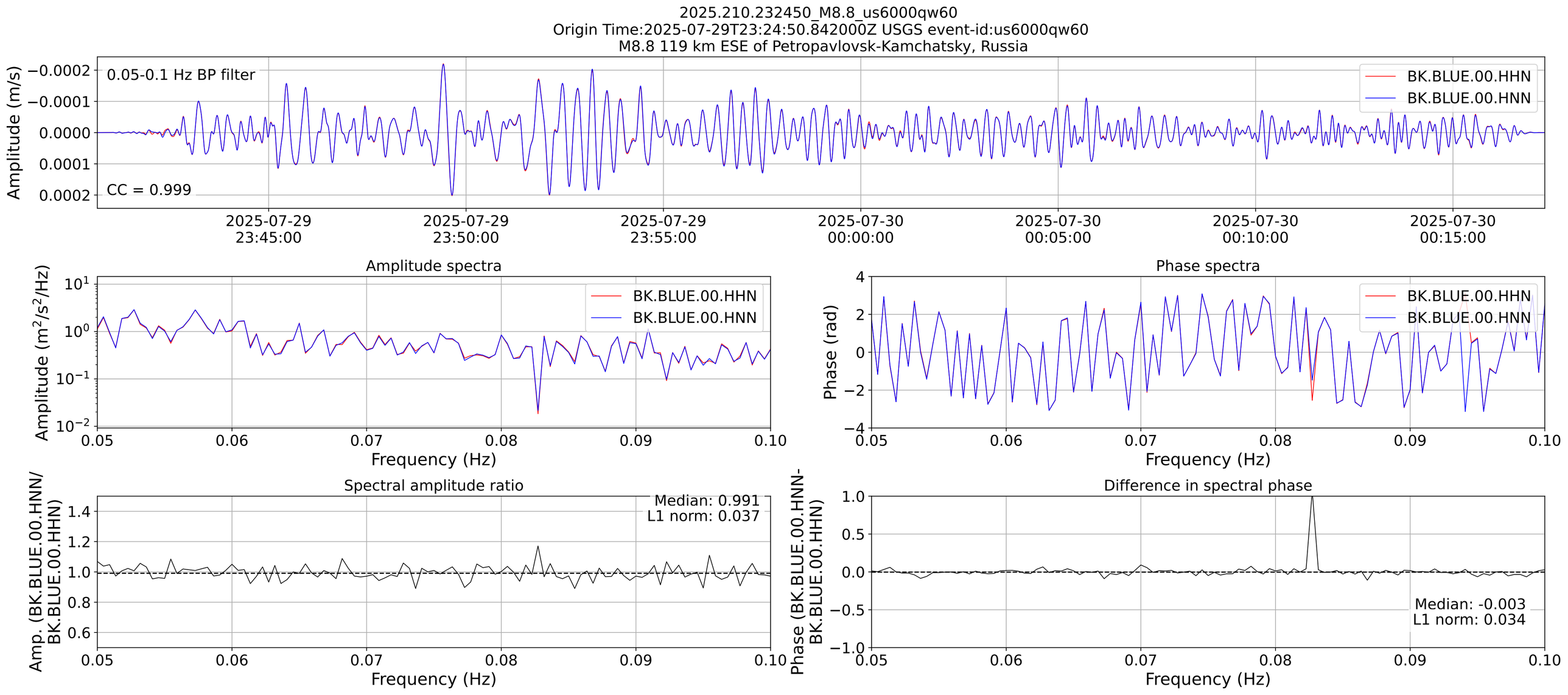

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLAS.00.HHZ
BK.BLAS.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNZ/ BK.BLAS.00.HHZ)
Median: 0.982
L1 norm: 0.025
Difference in spectral phase
Phase (BK.BLAS.00.HNZ- BK.BLAS.00.HHZ)
Median: -0.011
L1 norm: 0.029

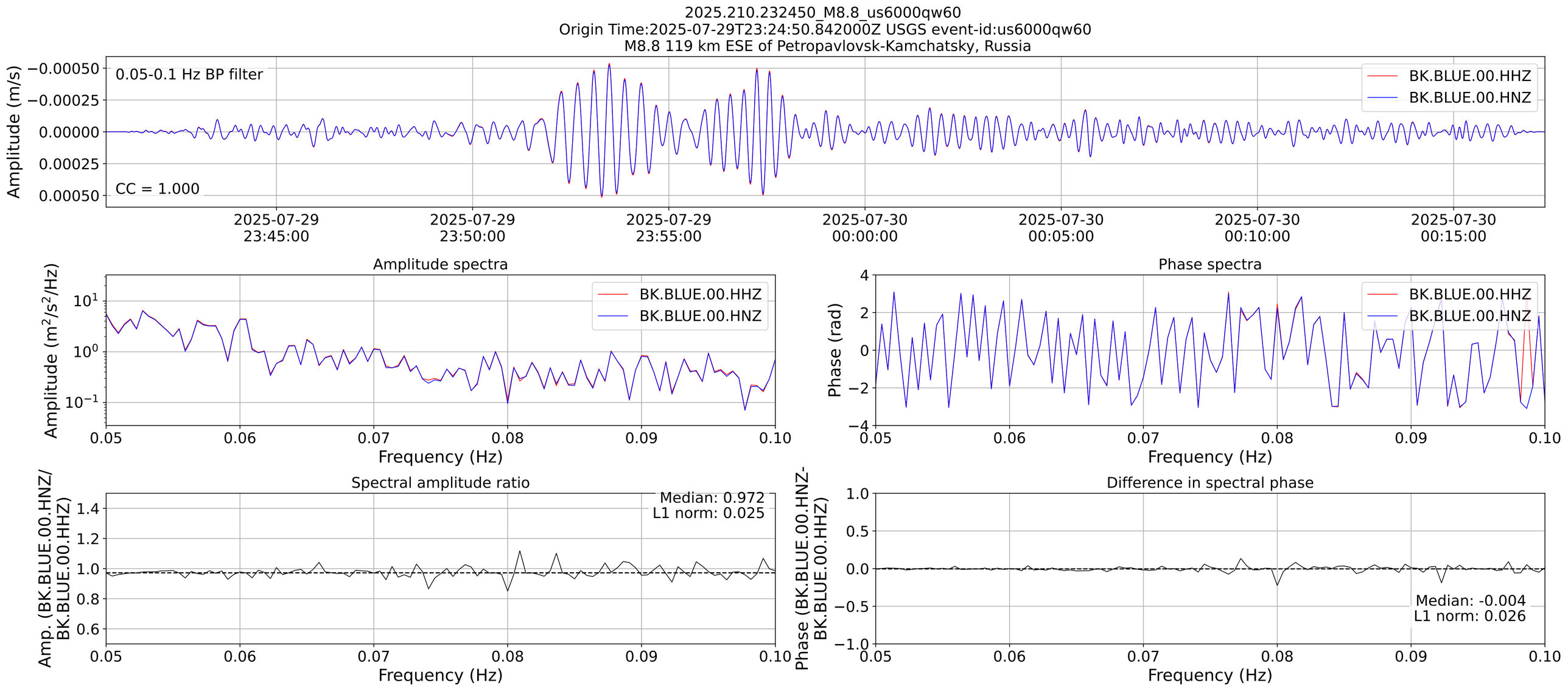

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLCR.00.HHE
BK.BLCR.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNE/ BK.BLCR.00.HHE)
Median: 1.006
L1 norm: 0.020
Difference in spectral phase
Phase (BK.BLCR.00.HNE- BK.BLCR.00.HHE)
Median: 0.004
L1 norm: 0.017

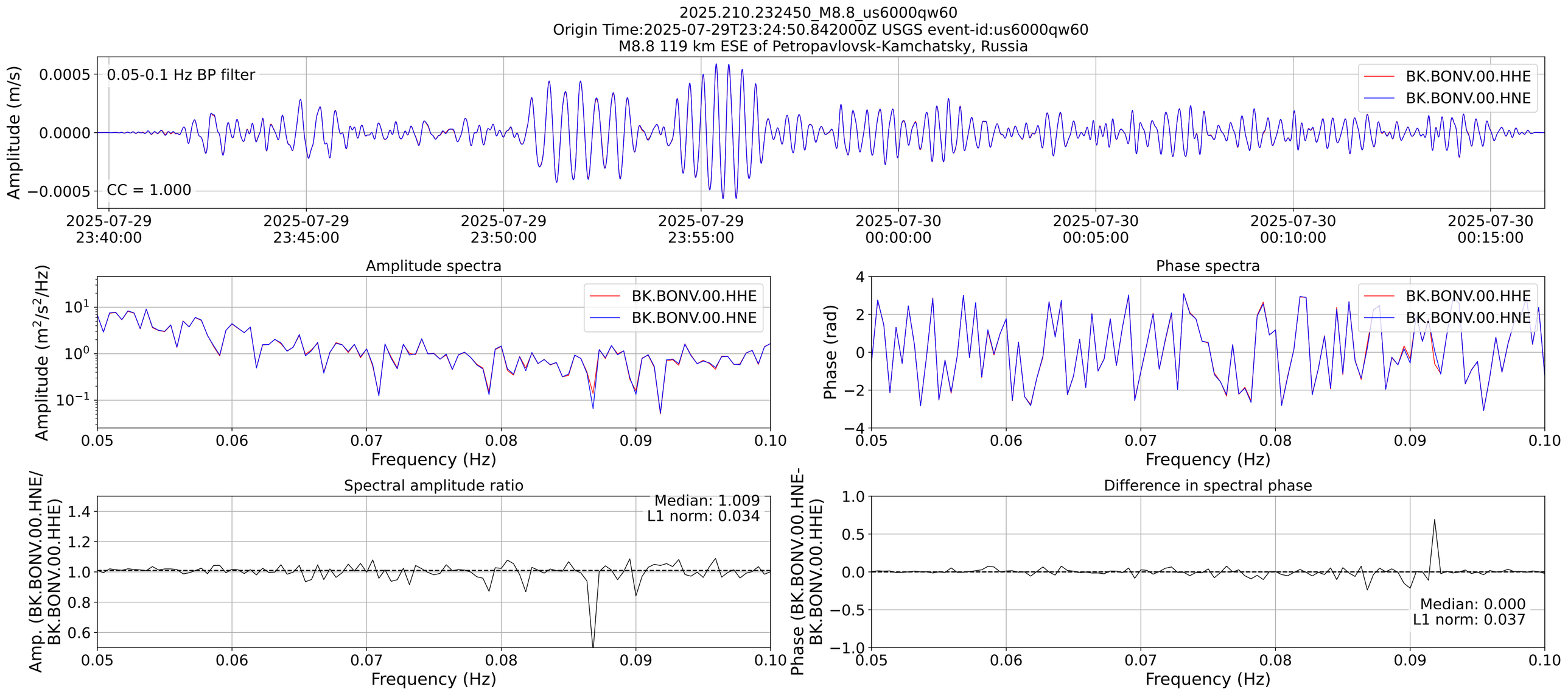

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BLCR.00.HHN
BK.BLCR.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNN/ BK.BLCR.00.HHN)
Median: 1.004
L1 norm: 0.047
Difference in spectral phase
Phase (BK.BLCR.00.HNN- BK.BLCR.00.HHN)
Median: 0.003
L1 norm: 0.049

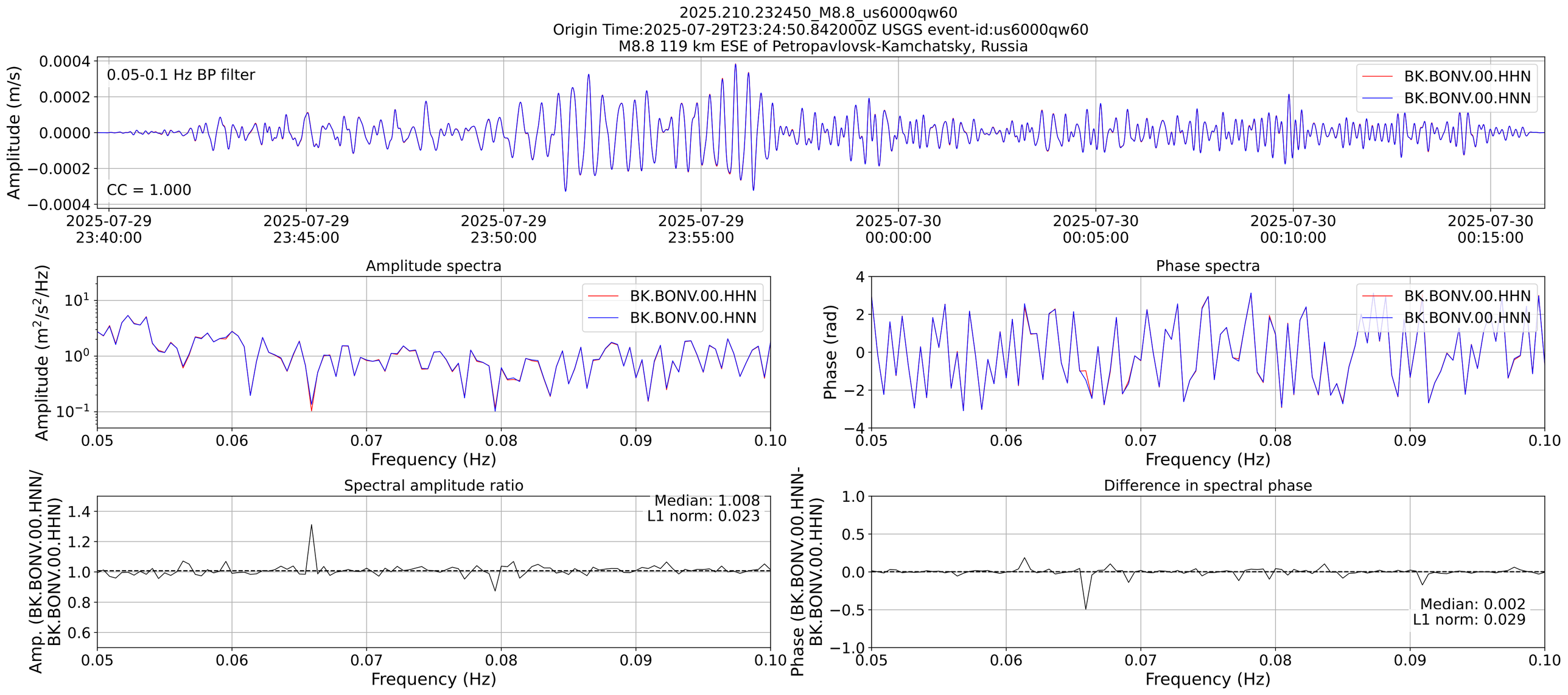

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLCR.00.HHZ
BK.BLCR.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNZ/ BK.BLCR.00.HHZ)
Median: 0.999
L1 norm: 0.023
Difference in spectral phase
Phase (BK.BLCR.00.HNZ- BK.BLCR.00.HHZ)
Median: 0.002
L1 norm: 0.032

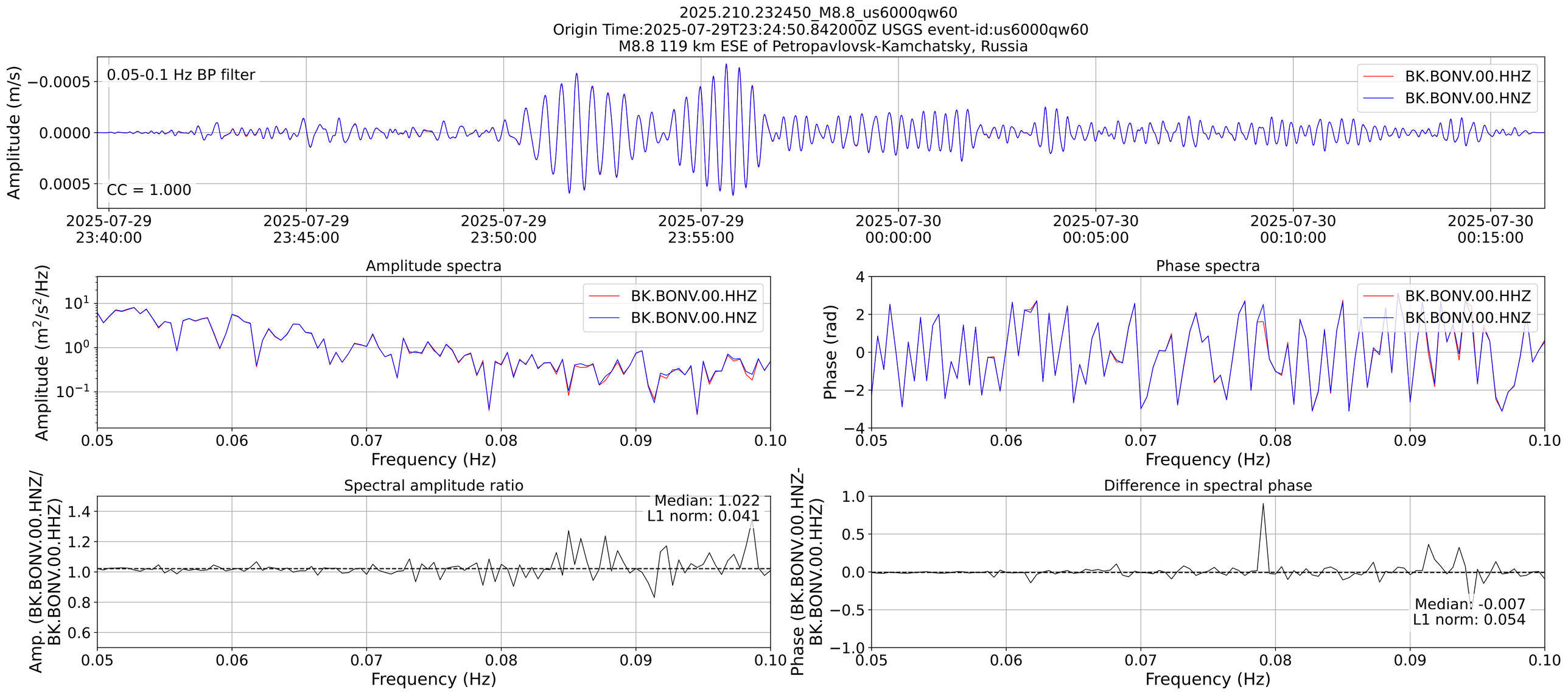

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLUE.00.HHE
BK.BLUE.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNE/ BK.BLUE.00.HHE)
Median: 0.981
L1 norm: 0.031
Difference in spectral phase
Phase (BK.BLUE.00.HNE- BK.BLUE.00.HHE)
Median: 0.001
L1 norm: 0.034

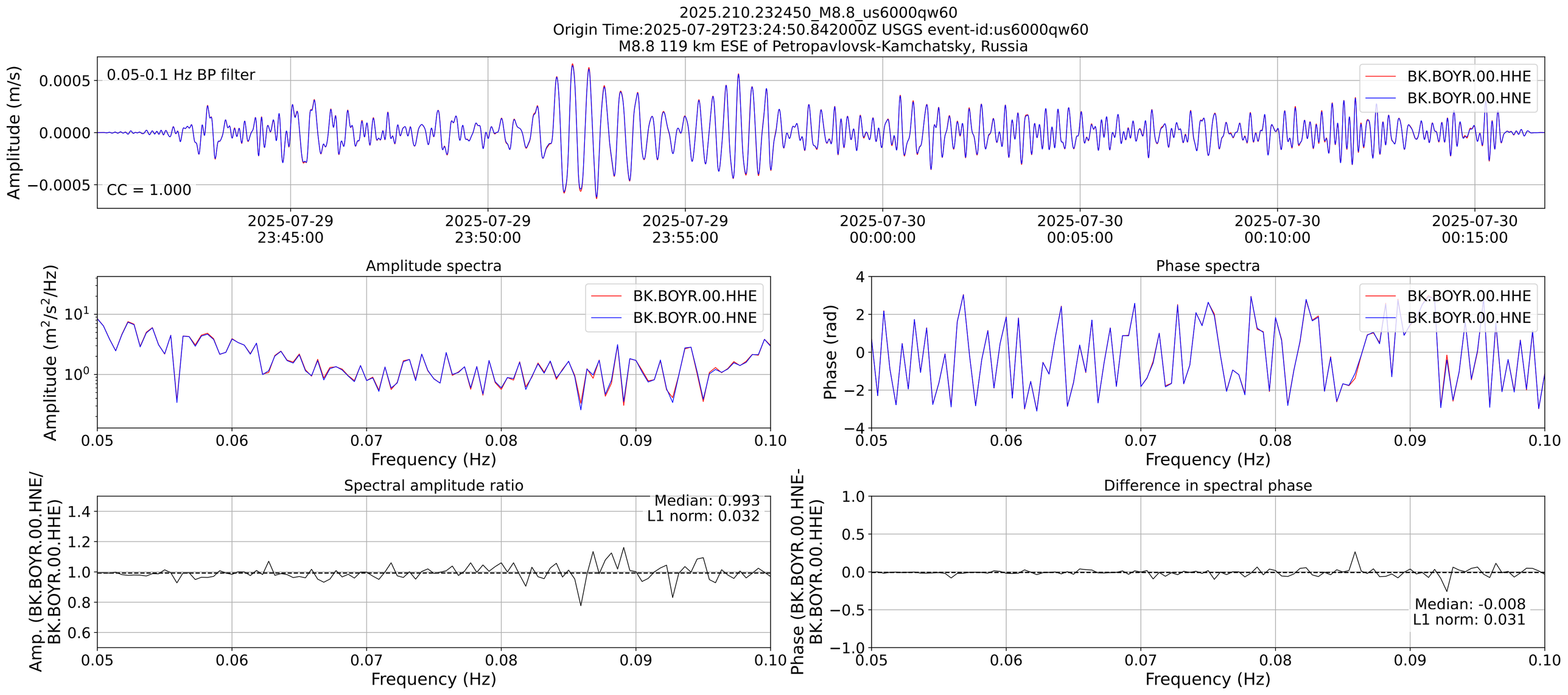

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BLUE.00.HHN
BK.BLUE.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNN/ BK.BLUE.00.HHN)
Median: 0.991
L1 norm: 0.037
Difference in spectral phase
Phase (BK.BLUE.00.HNN- BK.BLUE.00.HHN)
Median: -0.003
L1 norm: 0.034

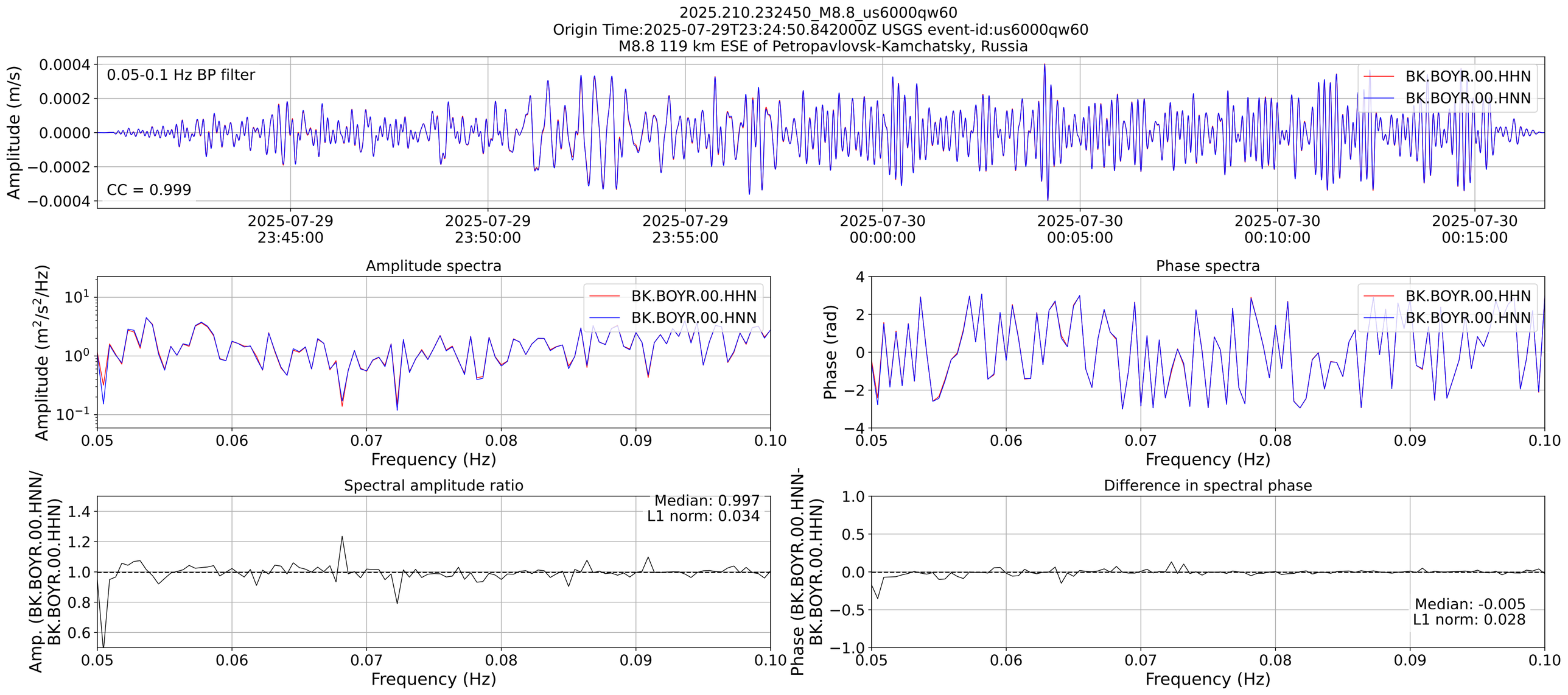

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BLUE.00.HHZ
BK.BLUE.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNZ/ BK.BLUE.00.HHZ)
Median: 0.972
L1 norm: 0.025
Difference in spectral phase
Phase (BK.BLUE.00.HNZ- BK.BLUE.00.HHZ)
Median: -0.004
L1 norm: 0.026

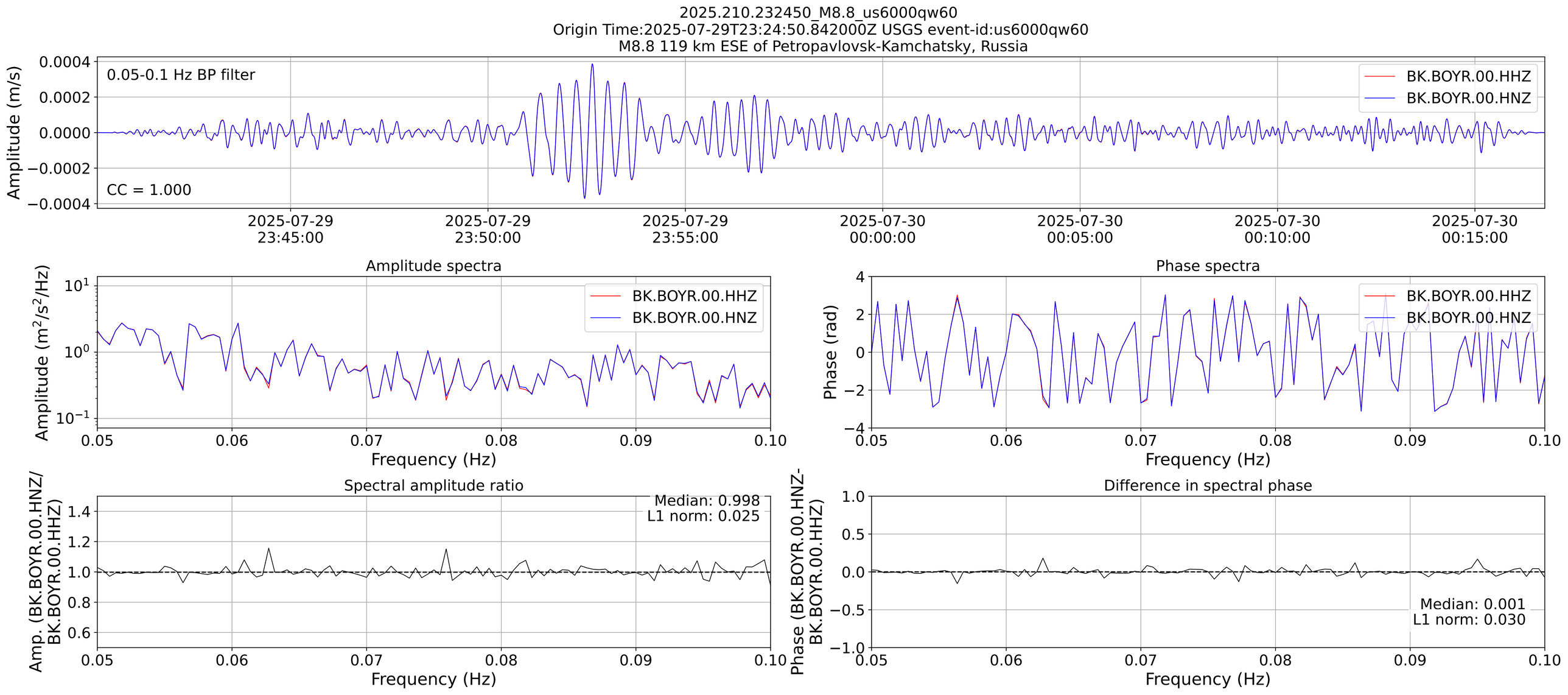

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BONV.00.HHE
BK.BONV.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNE/ BK.BONV.00.HHE)
Median: 1.009
L1 norm: 0.034
Difference in spectral phase
Phase (BK.BONV.00.HNE- BK.BONV.00.HHE)
Median: 0.000
L1 norm: 0.037

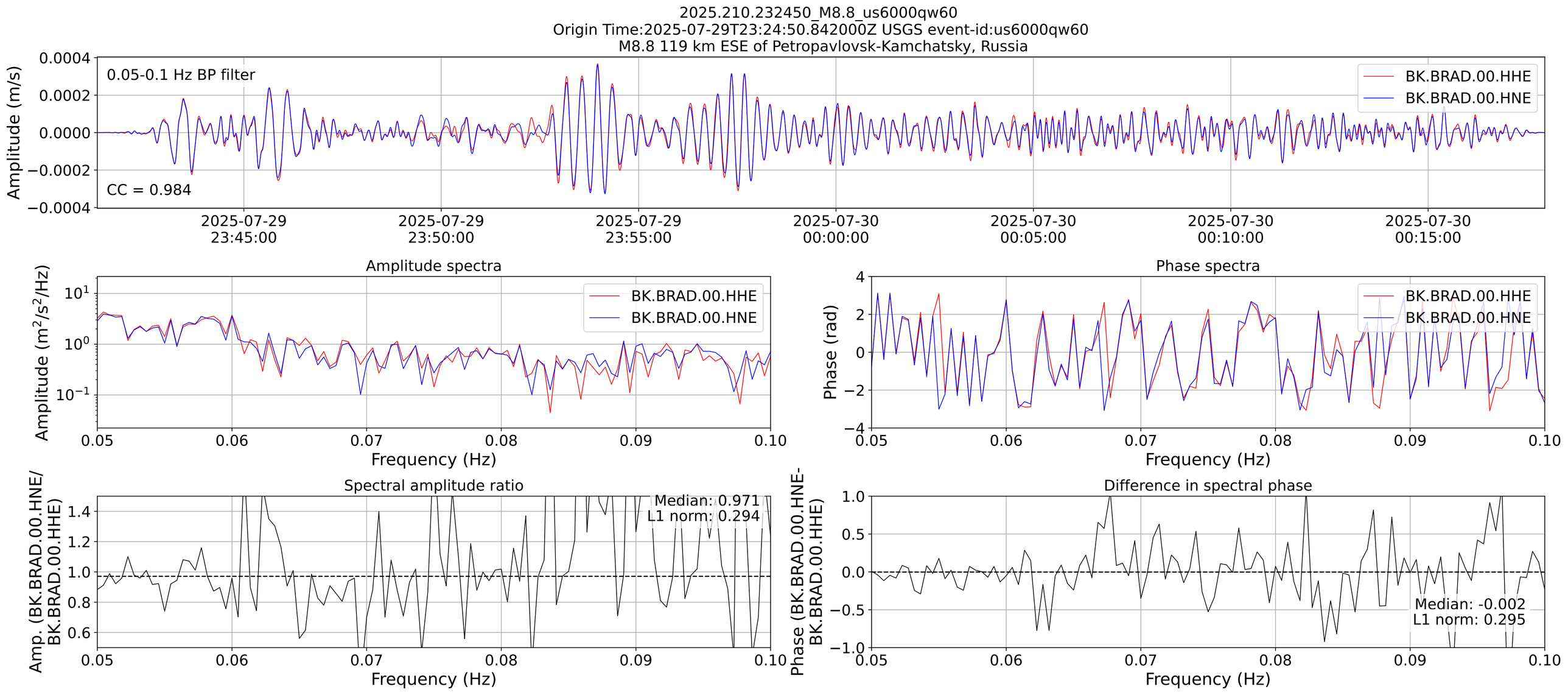

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BONV.00.HHN
BK.BONV.00.HNN
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNN/ BK.BONV.00.HHN)
Median: 1.008
L1 norm: 0.023
Difference in spectral phase
Phase (BK.BONV.00.HNN- BK.BONV.00.HHN)
Median: 0.002
L1 norm: 0.029

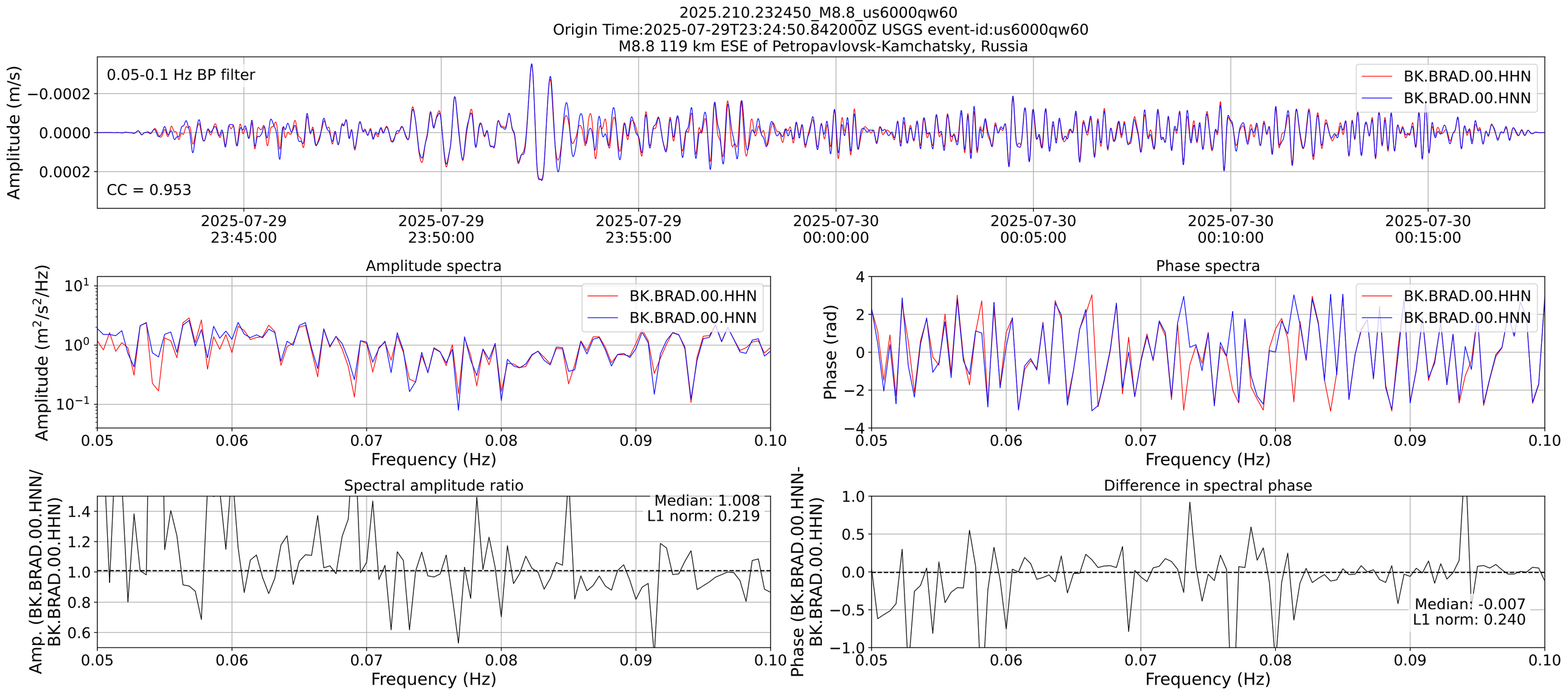

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BONV.00.HHZ
BK.BONV.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNZ/ BK.BONV.00.HHZ)
Median: 1.022
L1 norm: 0.041
Difference in spectral phase
Phase (BK.BONV.00.HNZ- BK.BONV.00.HHZ)
Median: -0.007
L1 norm: 0.054

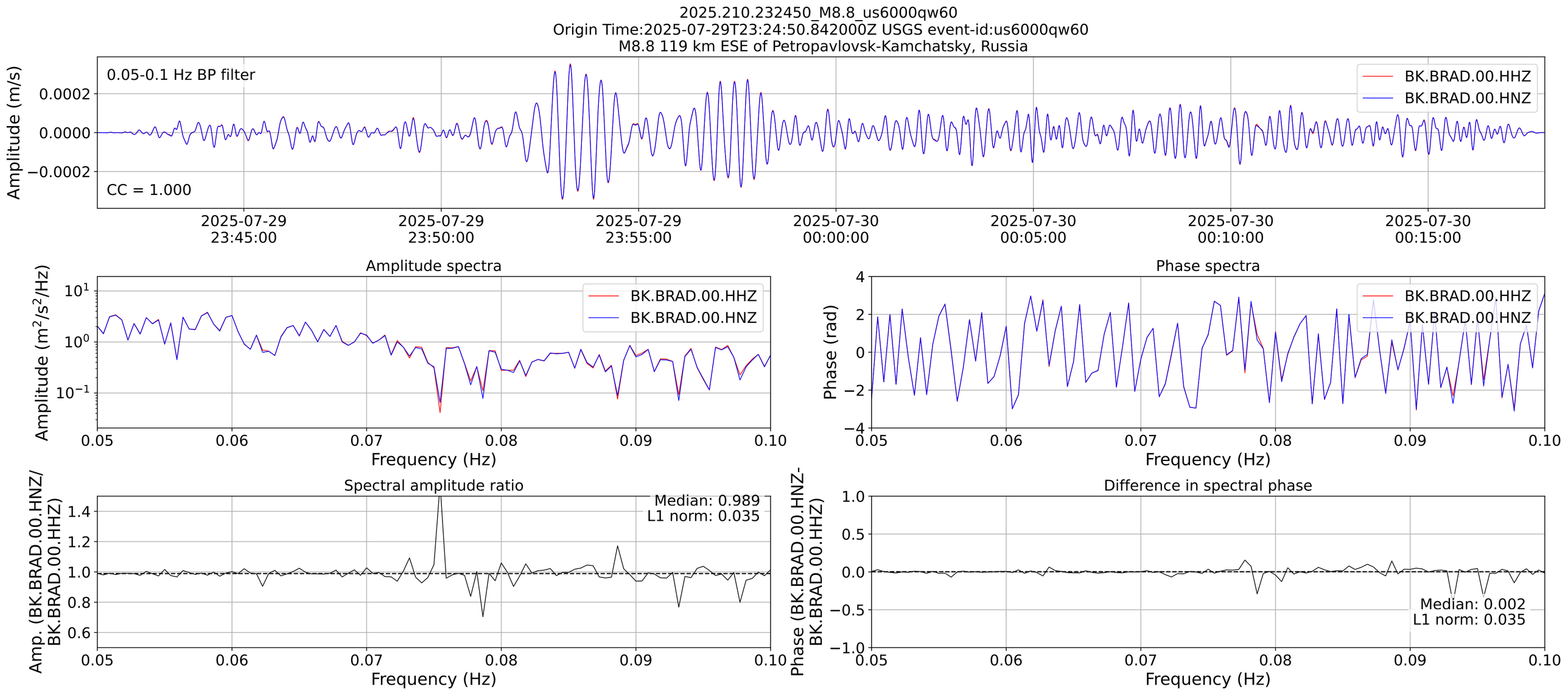

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BOYR.00.HHE
BK.BOYR.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNE/ BK.BOYR.00.HHE)
Median: 0.993
L1 norm: 0.032
Difference in spectral phase
Phase (BK.BOYR.00.HNE- BK.BOYR.00.HHE)
Median: -0.008
L1 norm: 0.031

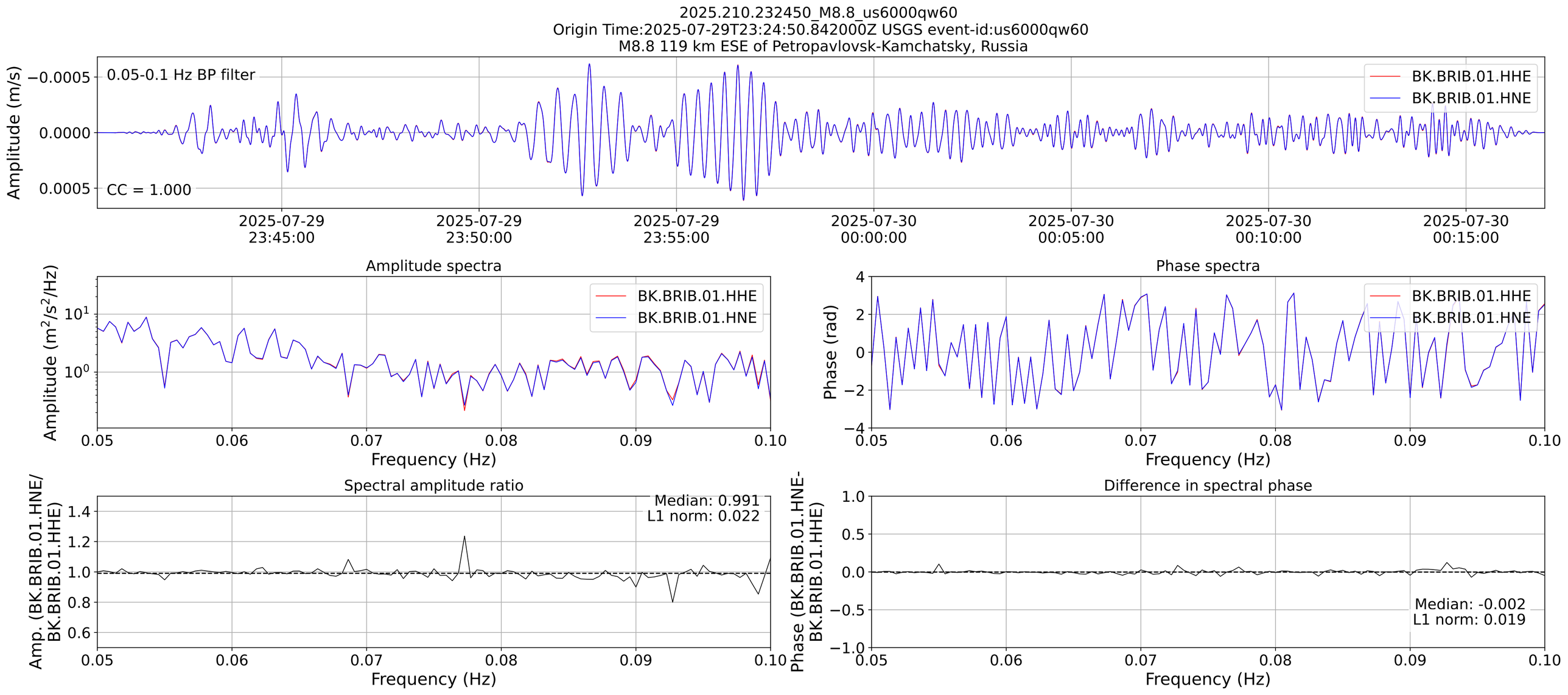

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BOYR.00.HHN
BK.BOYR.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNN/ BK.BOYR.00.HHN)
Median: 0.997
L1 norm: 0.034
Difference in spectral phase
Phase (BK.BOYR.00.HNN- BK.BOYR.00.HHN)
Median: -0.005
L1 norm: 0.028

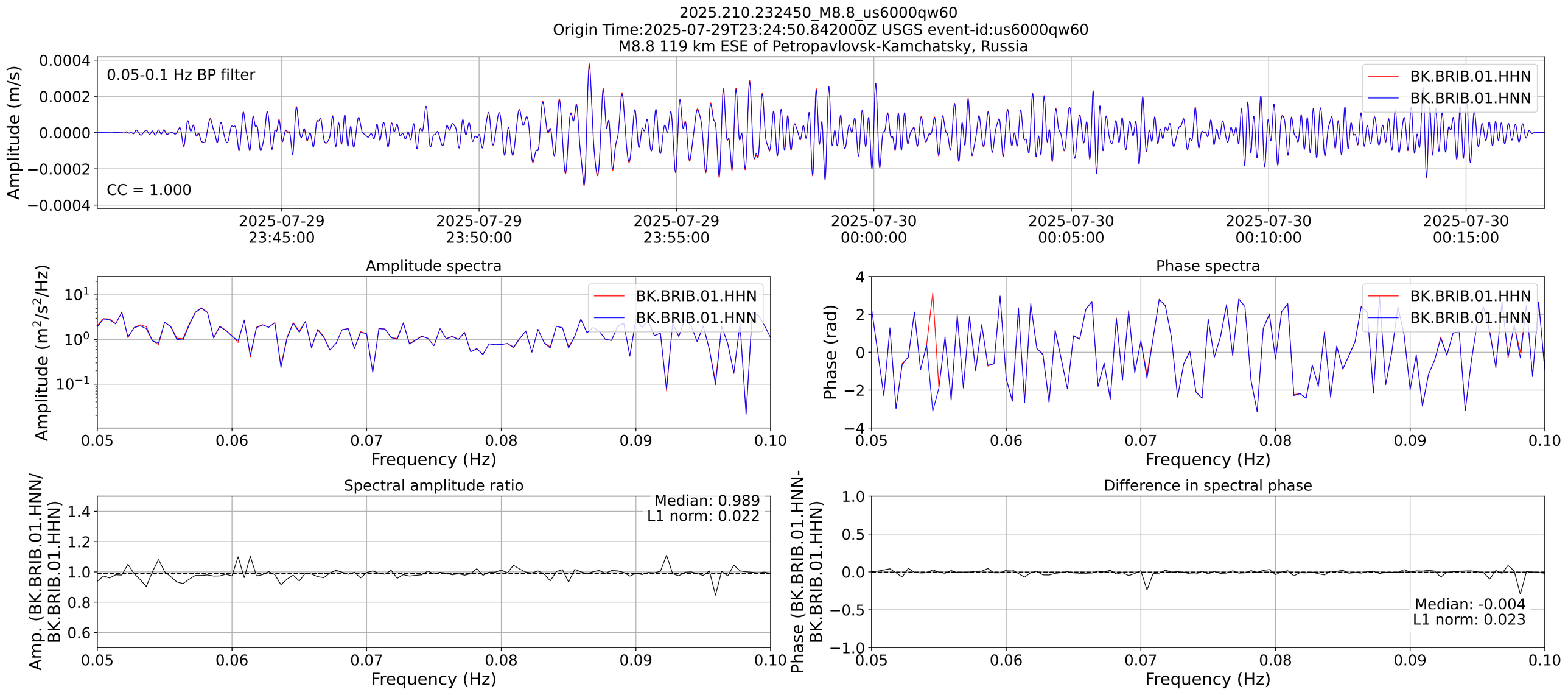

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BOYR.00.HHZ
BK.BOYR.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNZ/ BK.BOYR.00.HHZ)
Median: 0.998
L1 norm: 0.025
Difference in spectral phase
Phase (BK.BOYR.00.HNZ-BK.BOYR.00.HHZ)
Median: 0.001
L1 norm: 0.030

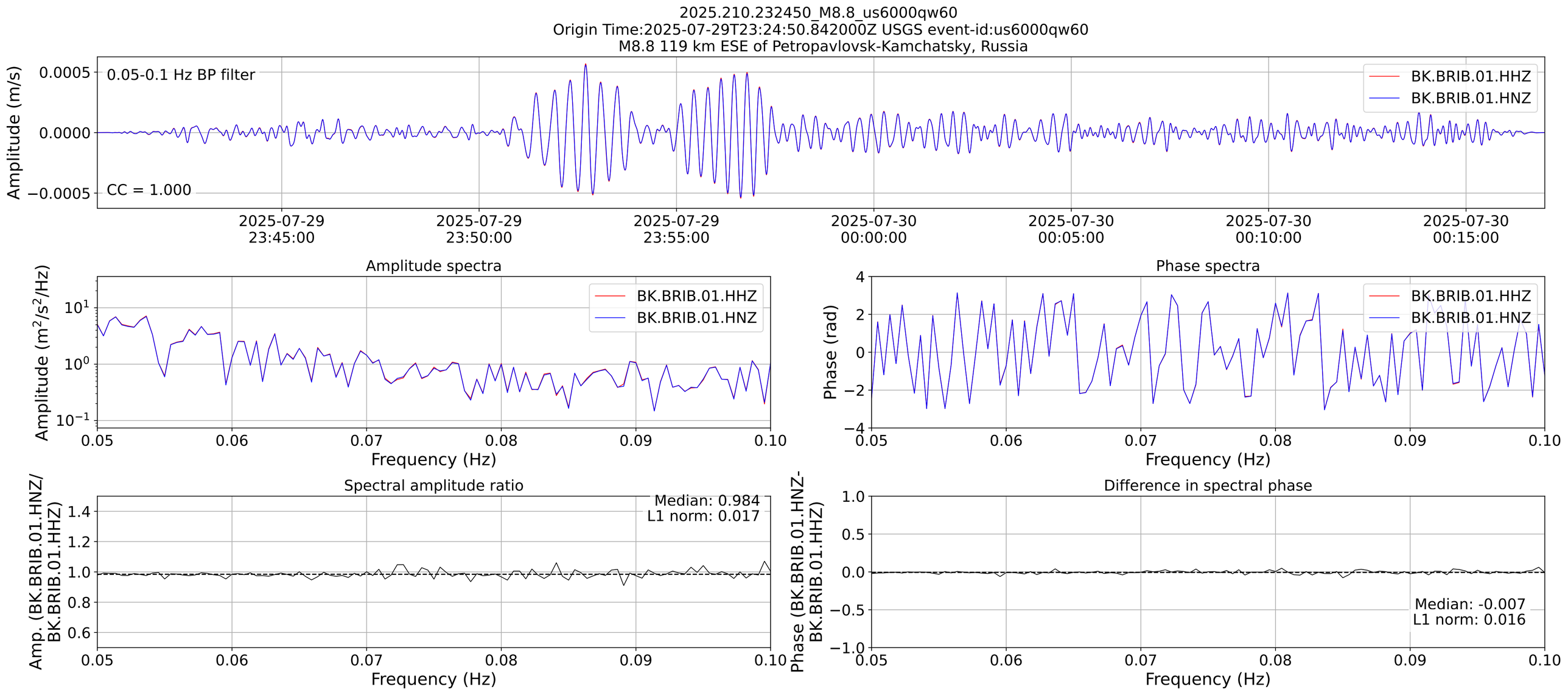

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.984
BK.BRAD.00.HHE
BK.BRAD.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNE/ BK.BRAD.00.HHE)
Median: 0.971
L1 norm: 0.294
Difference in spectral phase
Phase (BK.BRAD.00.HNE- BK.BRAD.00.HHE)
Median: -0.002
L1 norm: 0.295

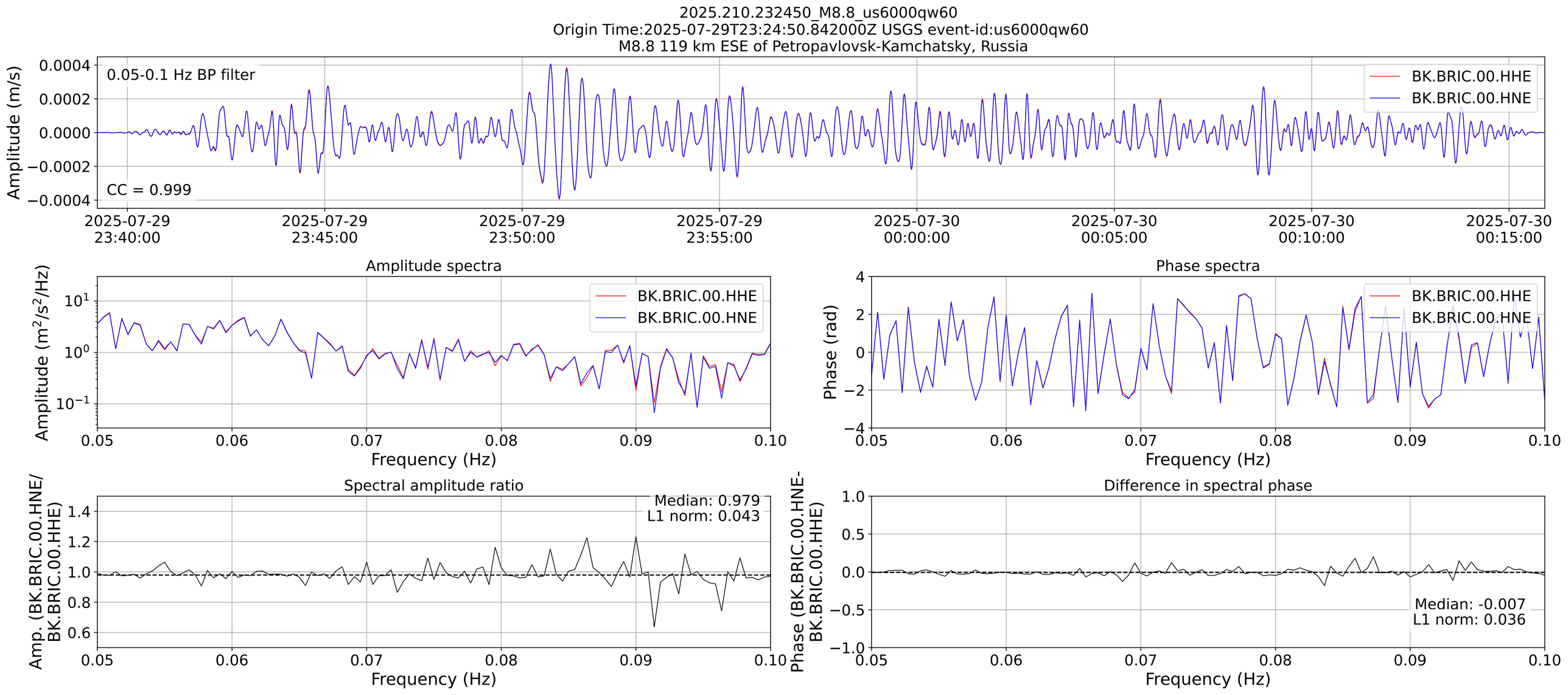

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.953
BK.BRAD.00.HHN
BK.BRAD.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNN/ BK.BRAD.00.HHN)
Median: 1.008
L1 norm: 0.219
Difference in spectral phase
Phase (BK.BRAD.00.HNN- BK.BRAD.00.HHN)
Median: -0.007
L1 norm: 0.240

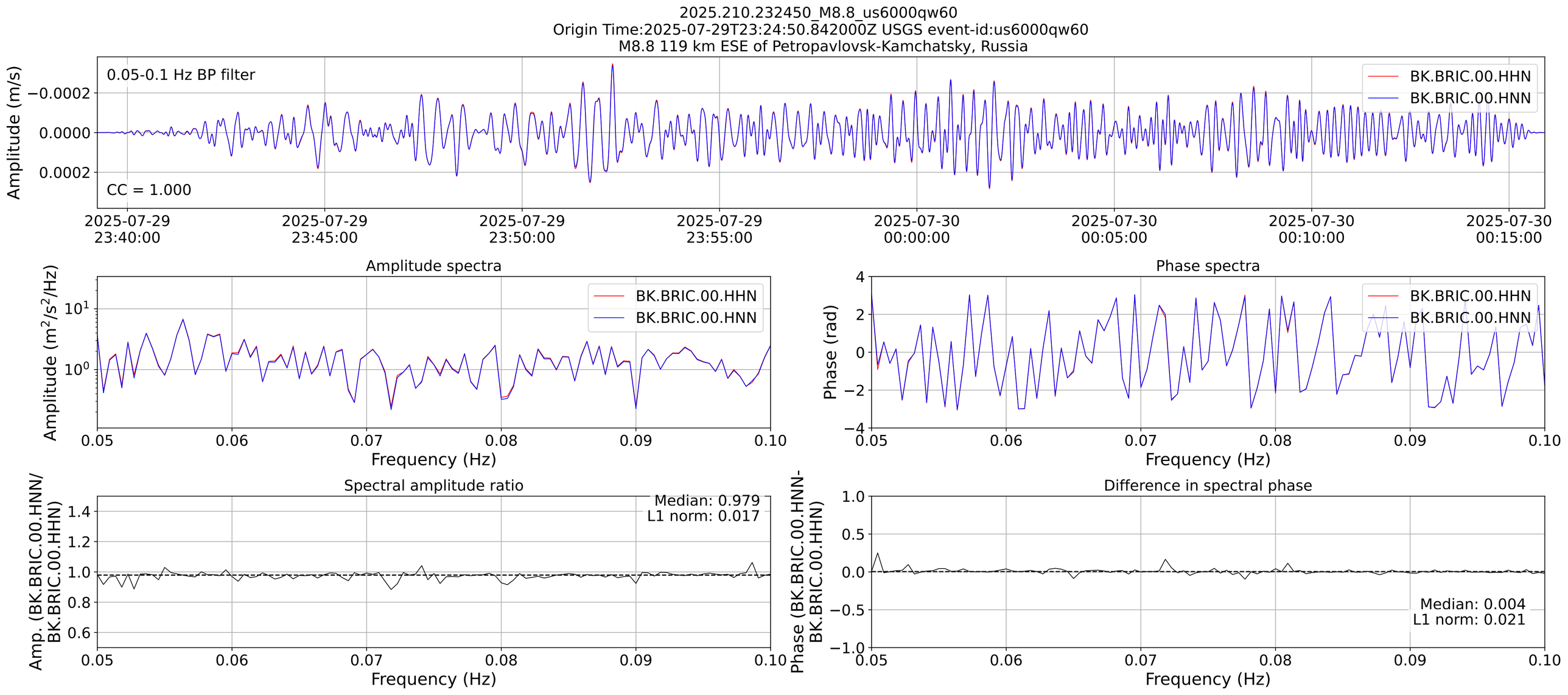

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRAD.00.HHZ
BK.BRAD.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNZ/ BK.BRAD.00.HHZ)
Median: 0.989
L1 norm: 0.035
Difference in spectral phase
Phase (BK.BRAD.00.HNZ- BK.BRAD.00.HHZ)
Median: 0.002
L1 norm: 0.035

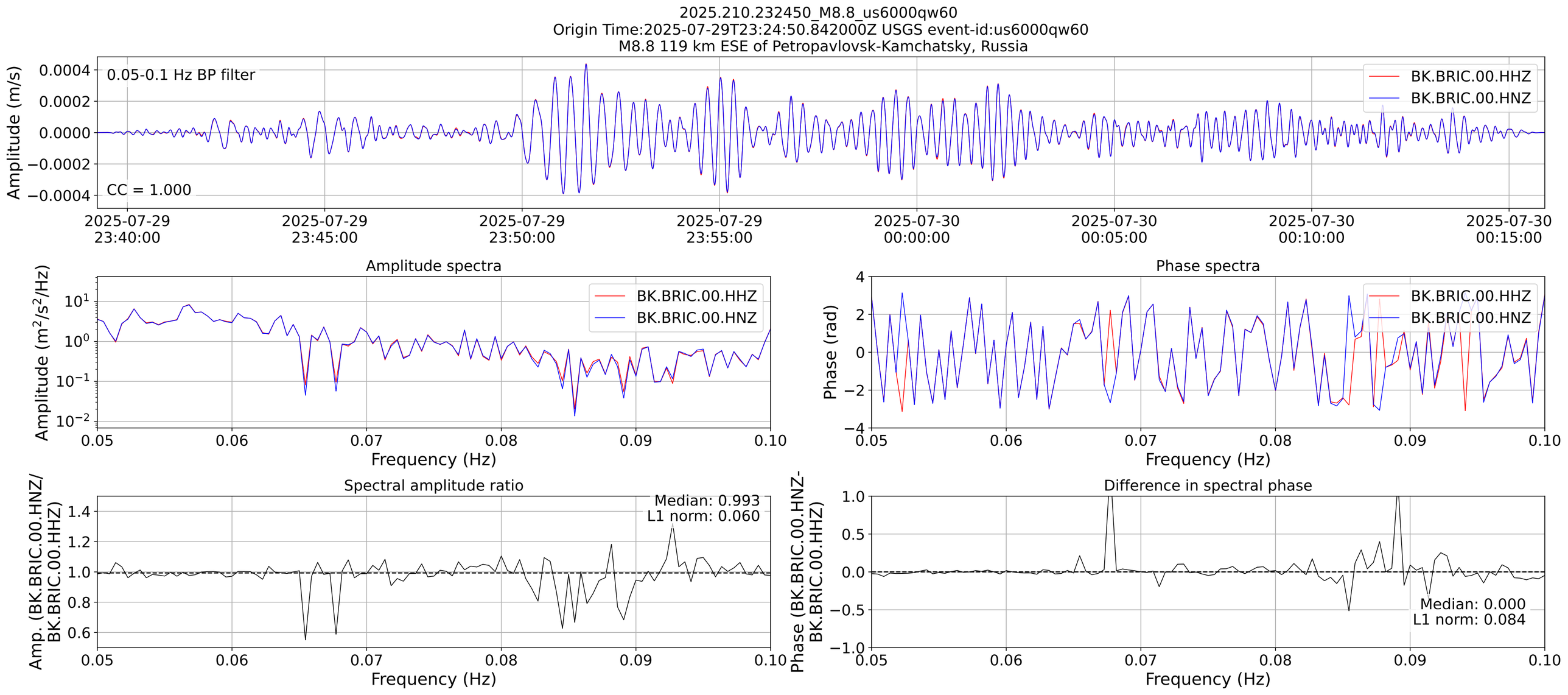

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRIB.01.HHE
BK.BRIB.01.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNE/ BK.BRIB.01.HHE)
Median: 0.991
L1 norm: 0.022
Difference in spectral phase
Phase (BK.BRIB.01.HNE- BK.BRIB.01.HHE)
Median: -0.002
L1 norm: 0.019

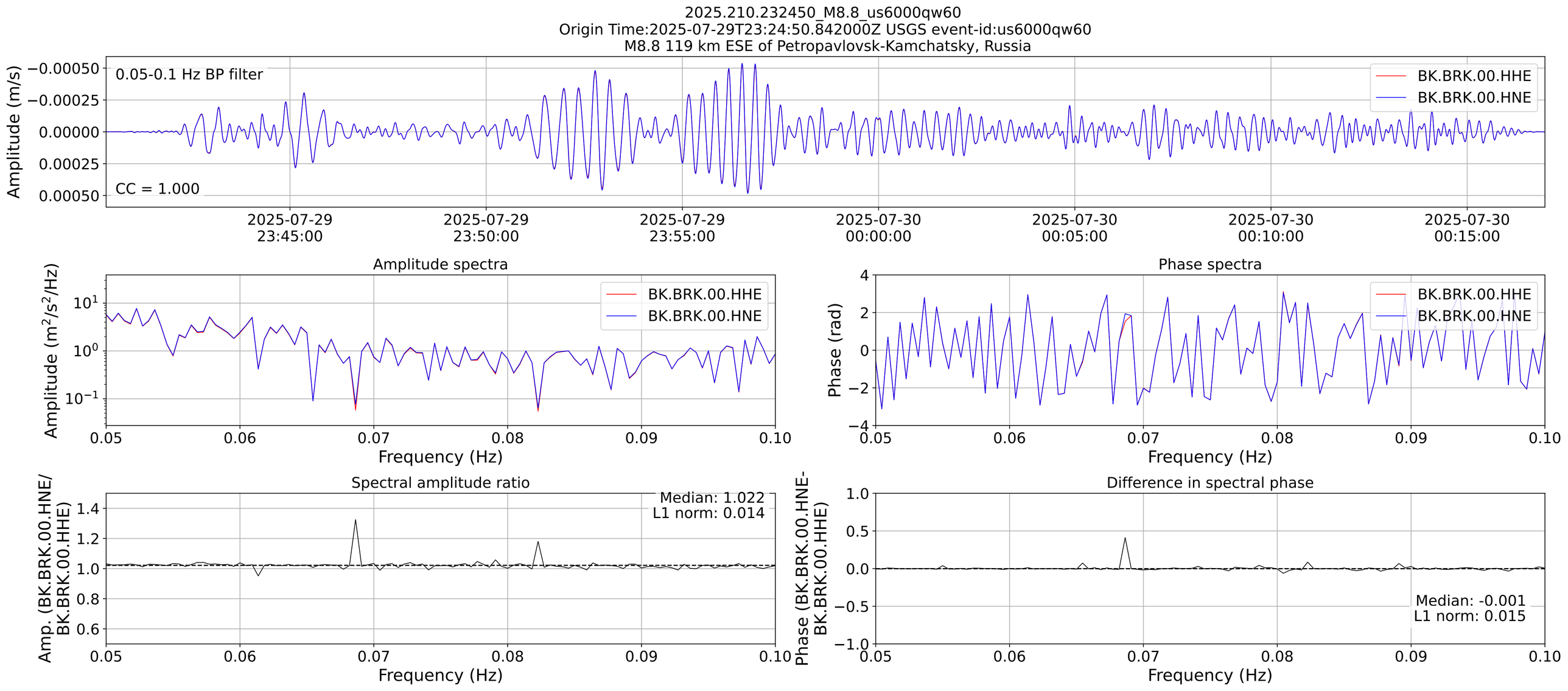

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRIB.01.HHN
BK.BRIB.01.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNN/ BK.BRIB.01.HHN)
Median: 0.989
L1 norm: 0.022
Difference in spectral phase
Phase (BK.BRIB.01.HNN-BK.BRIB.01.HHN)
Median: -0.004
L1 norm: 0.023

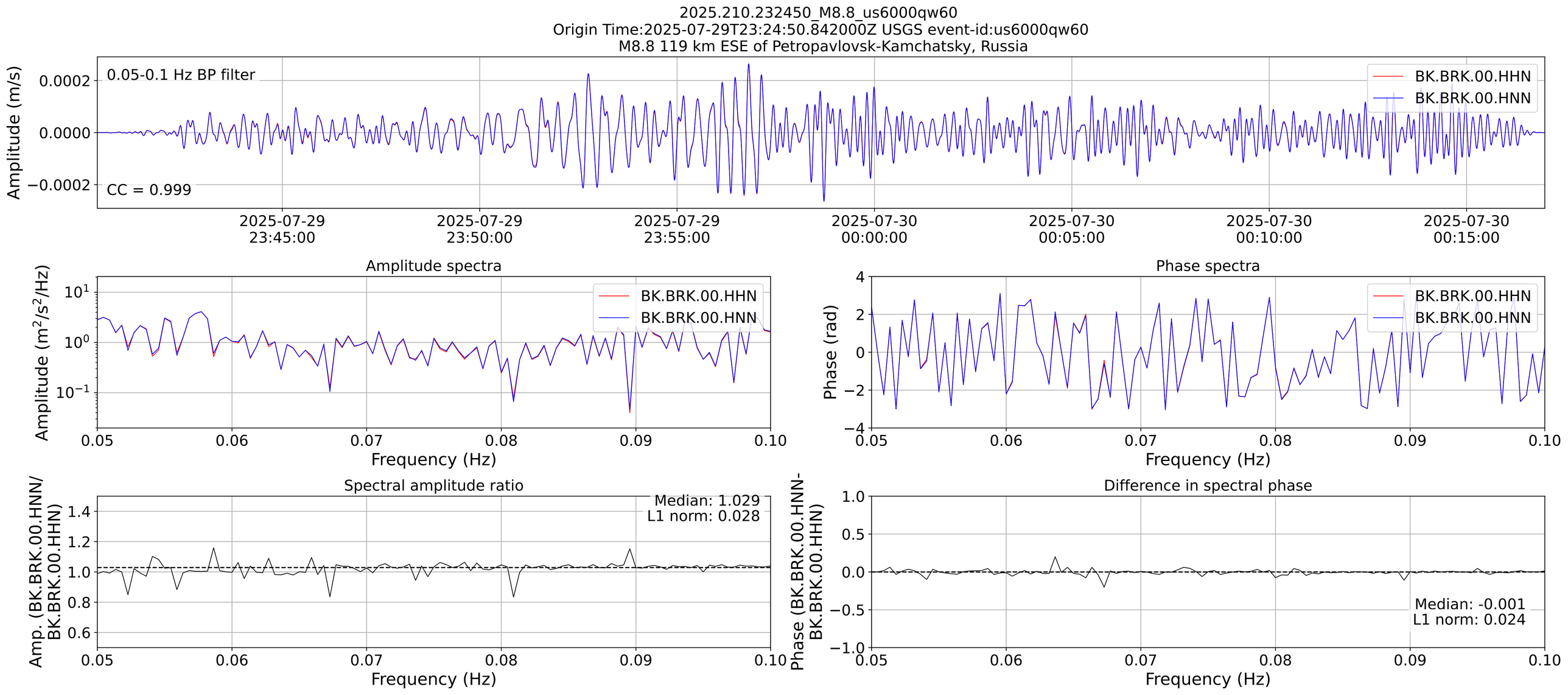

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRIB.01.HHZ
BK.BRIB.01.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNZ/ BK.BRIB.01.HHZ)
Median: 0.984
L1 norm: 0.017
Difference in spectral phase
Phase (BK.BRIB.01.HNZ-BK.BRIB.01.HHZ)
Median: -0.007
L1 norm: 0.016

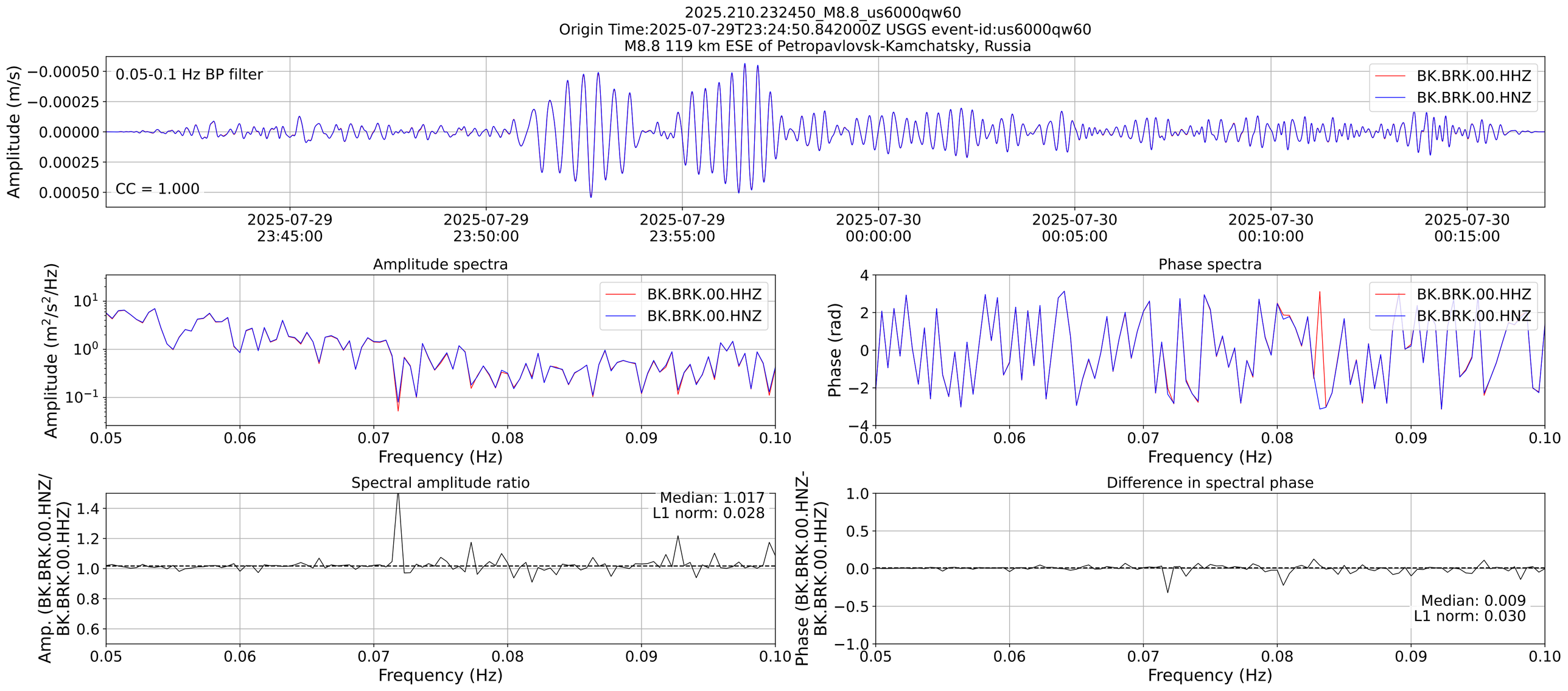

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BRIC.00.HHE
BK.BRIC.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNE/ BK.BRIC.00.HHE)
Median: 0.979
L1 norm: 0.043
Difference in spectral phase
Phase (BK.BRIC.00.HNE- BK.BRIC.00.HHE)
Median: -0.007
L1 norm: 0.036

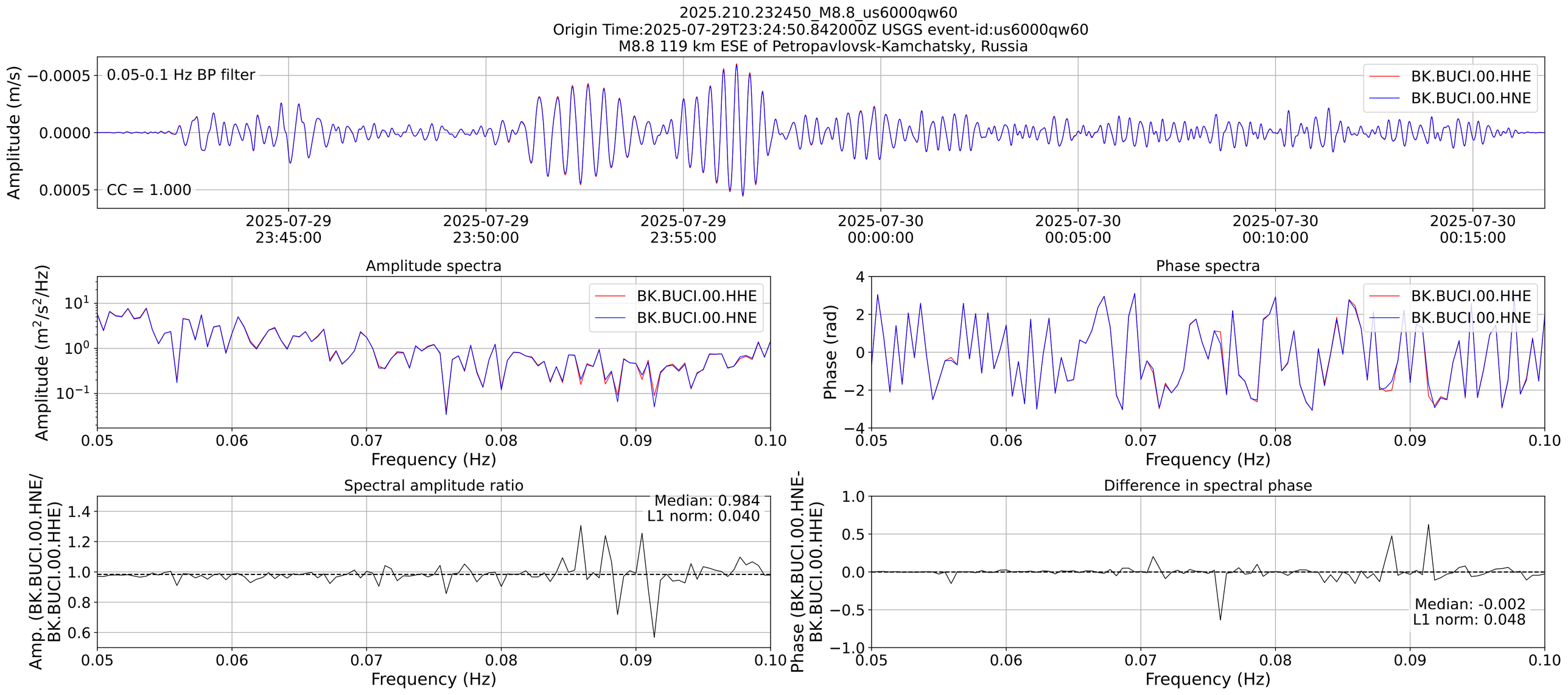

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRIC.00.HHN
BK.BRIC.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNN/ BK.BRIC.00.HHN)
Median: 0.979
L1 norm: 0.017
Difference in spectral phase
Phase (BK.BRIC.00.HNN- BK.BRIC.00.HHN)
Median: 0.004
L1 norm: 0.021

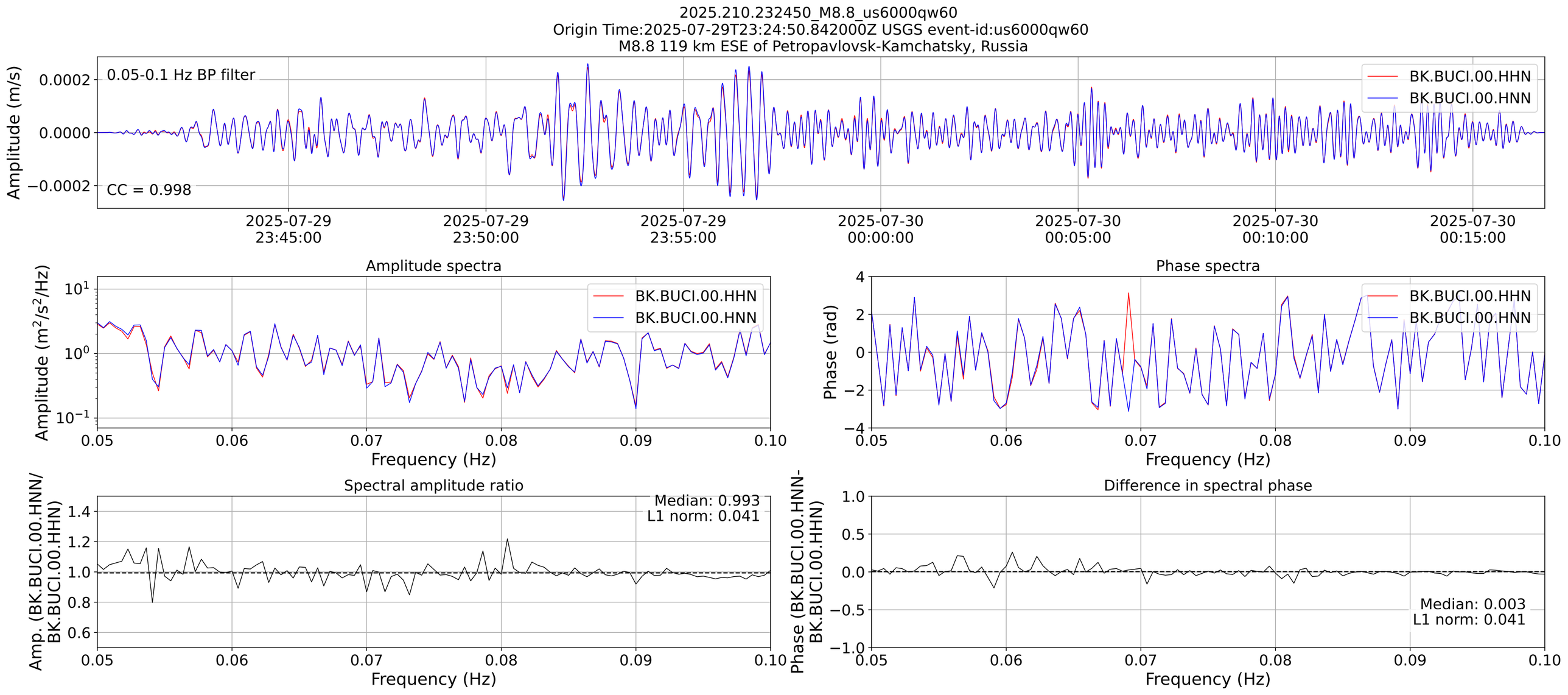

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRIC.00.HHZ
BK.BRIC.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNZ/ BK.BRIC.00.HHZ)
Median: 0.993
L1 norm: 0.060
Difference in spectral phase
Phase (BK.BRIC.00.HNZ- BK.BRIC.00.HHZ)
Median: 0.000
L1 norm: 0.084

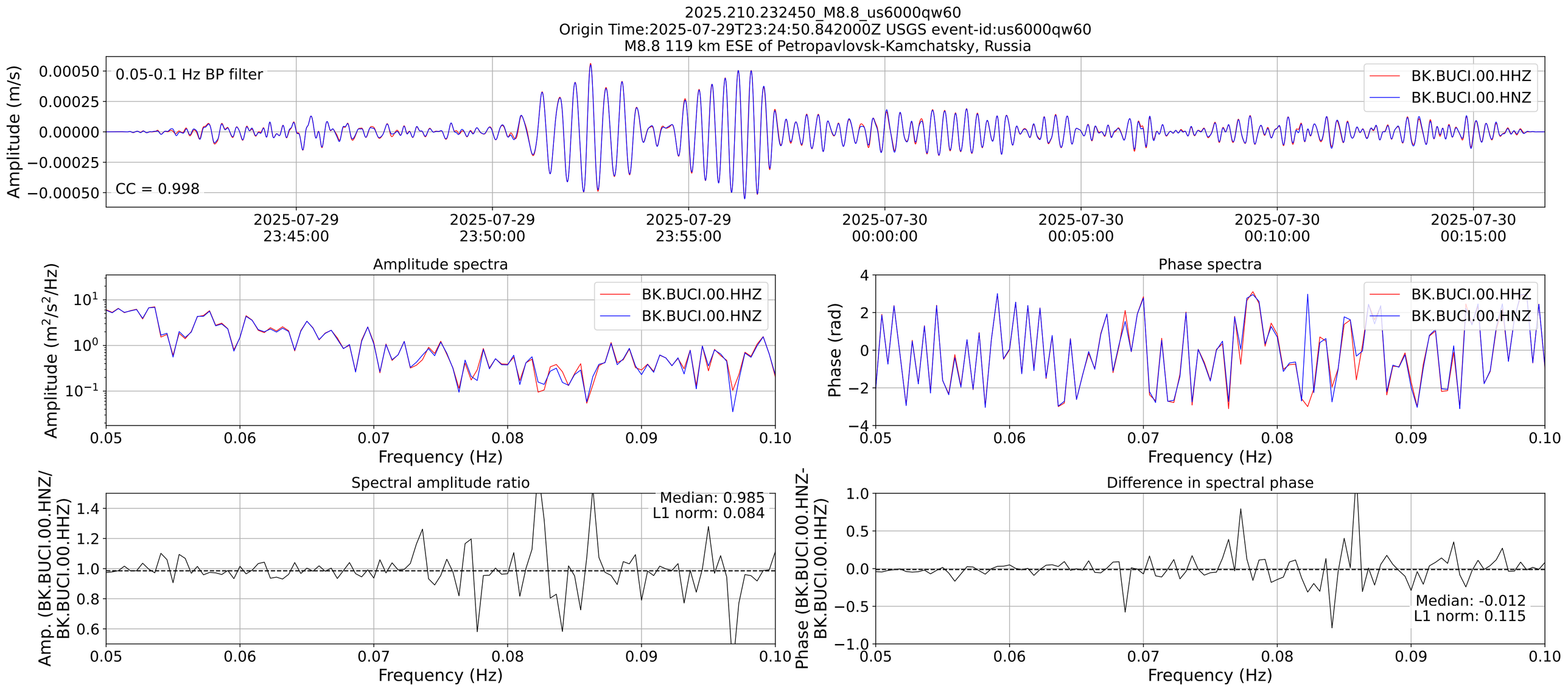

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRK.00.HHE
BK.BRK.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRK.00.HNE/ BK.BRK.00.HHE)
Median: 1.022
L1 norm: 0.014
Difference in spectral phase
Phase (BK.BRK.00.HNE- BK.BRK.00.HHE)
Median: -0.001
L1 norm: 0.015

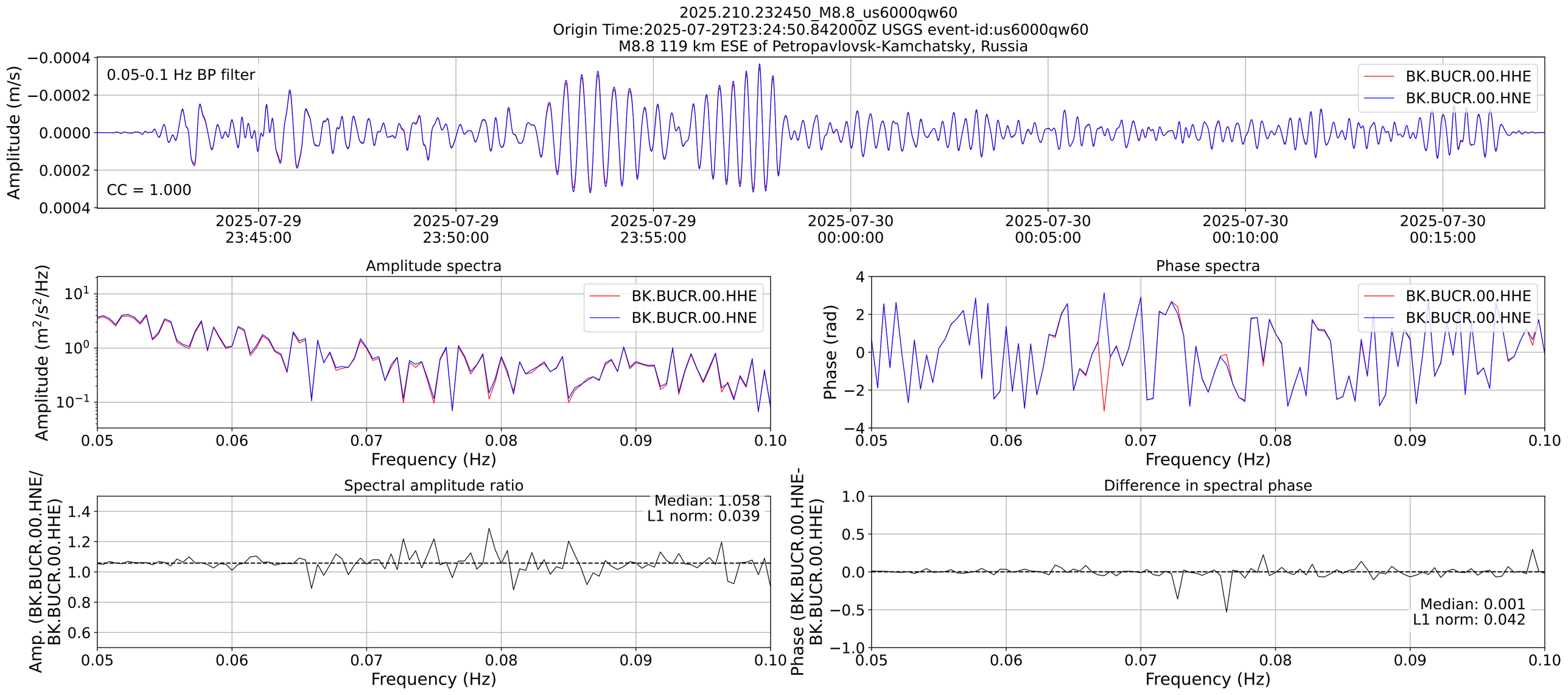

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BRK.00.HHN
BK.BRK.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRK.00.HNN/ BK.BRK.00.HHN)
Median: 1.029
L1 norm: 0.028
Difference in spectral phase
Phase (BK.BRK.00.HNN-BK.BRK.00.HHN)
Median: -0.001
L1 norm: 0.024

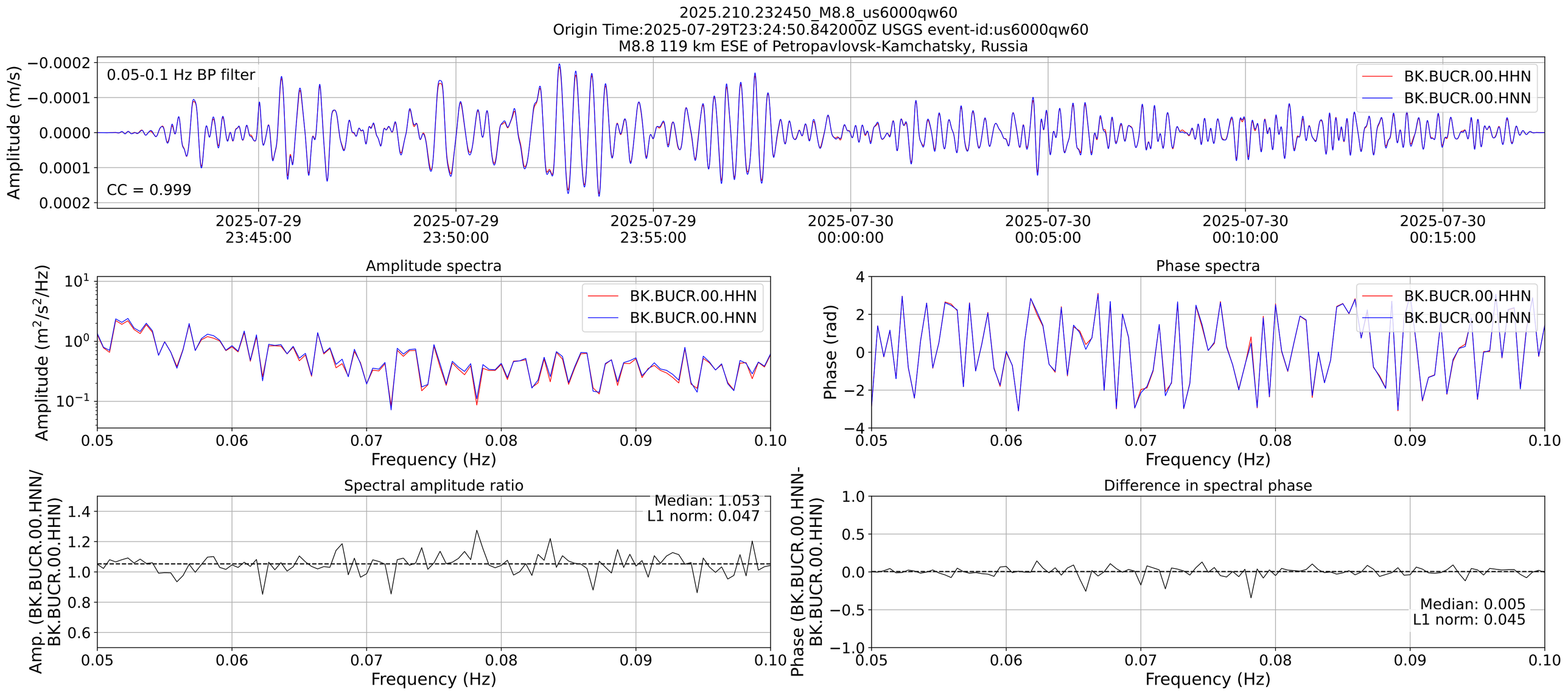

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BRK.00.HHZ
BK.BRK.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRK.00.HNZ/ BK.BRK.00.HHZ)
Median: 1.017
L1 norm: 0.028
Difference in spectral phase
Phase (BK.BRK.00.HNZ-BK.BRK.00.HHZ)
Median: 0.009
L1 norm: 0.030

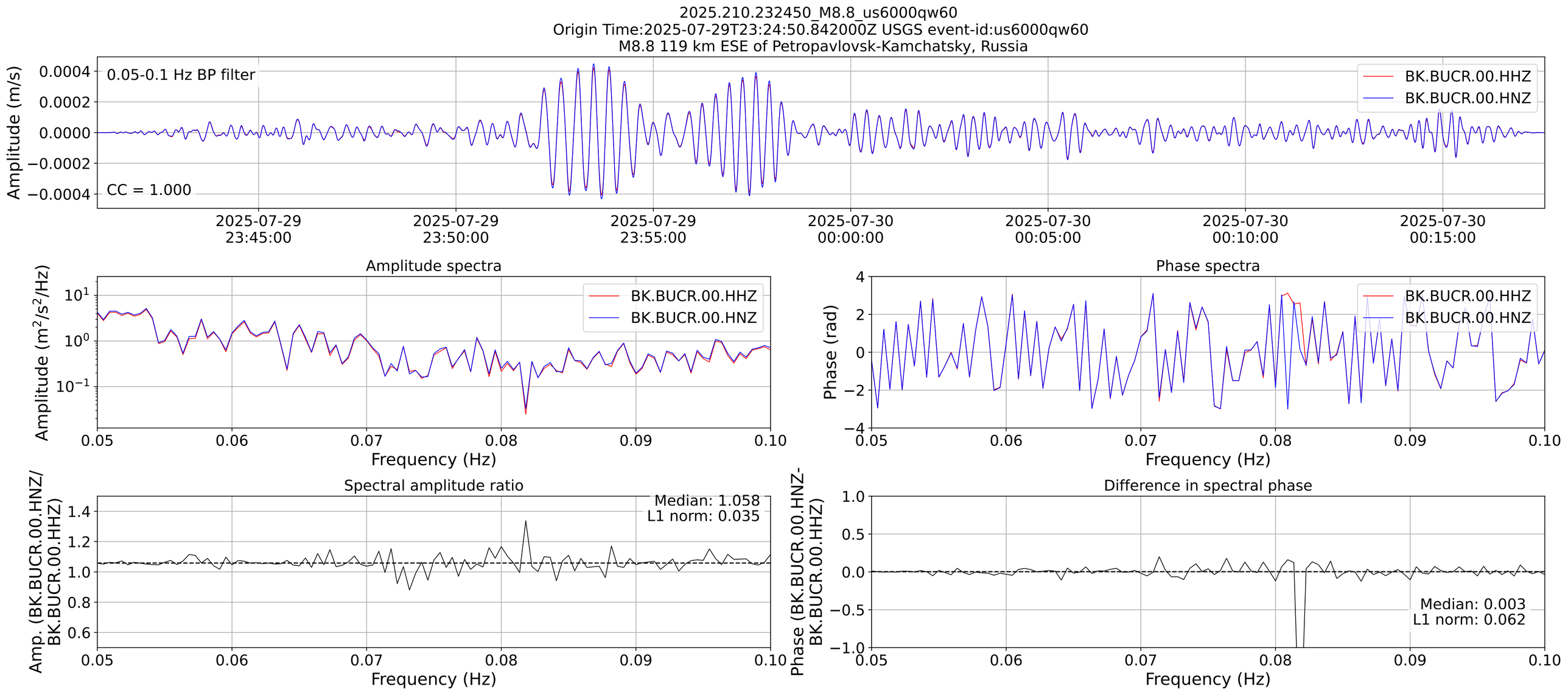

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BUCI.00.HHE
BK.BUCI.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNE/ BK.BUCI.00.HHE)
Median: 0.984
L1 norm: 0.040
Difference in spectral phase
Phase (BK.BUCI.00.HNE- BK.BUCI.00.HHE)
Median: -0.002
L1 norm: 0.048

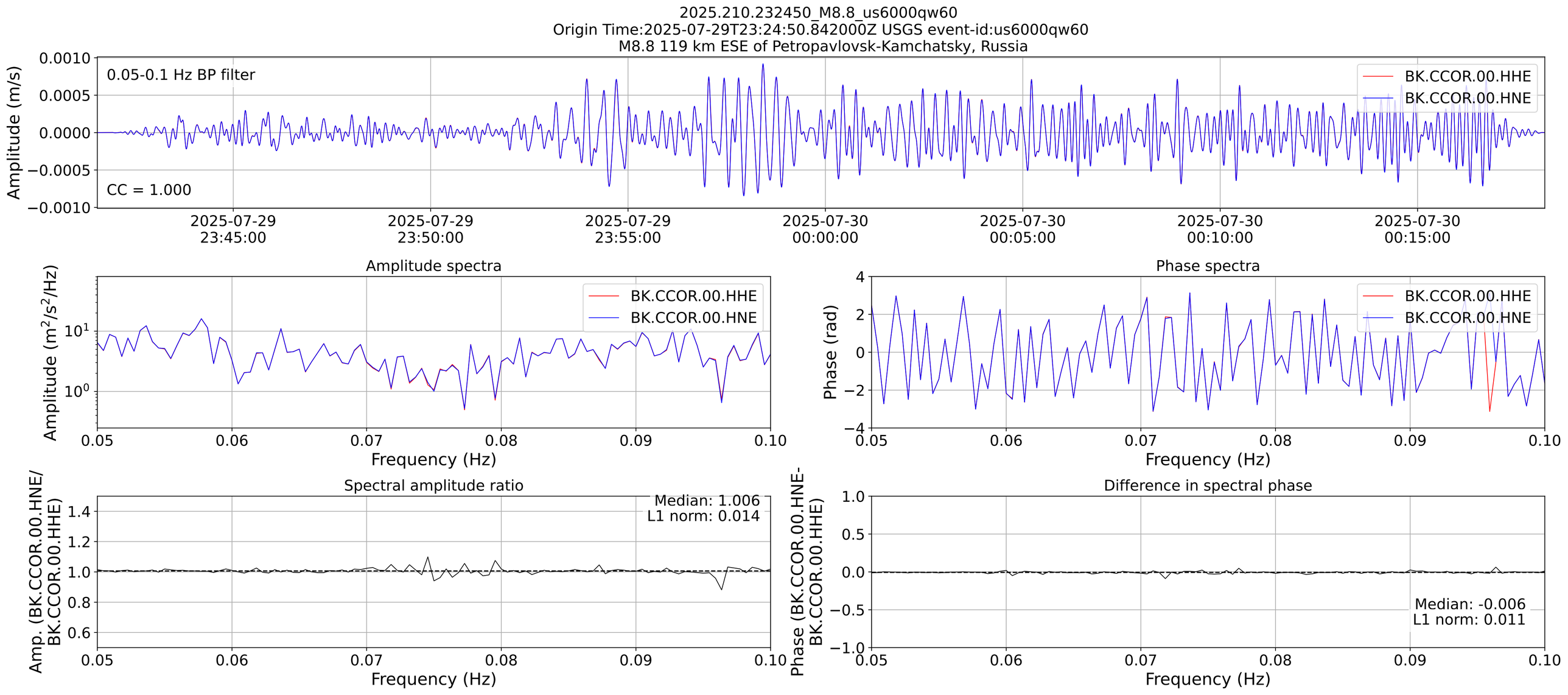

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BUCI.00.HHN
BK.BUCI.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNN/ BK.BUCI.00.HHN)
Median: 0.993
L1 norm: 0.041
Difference in spectral phase
Phase (BK.BUCI.00.HNN- BK.BUCI.00.HHN)
Median: 0.003
L1 norm: 0.041

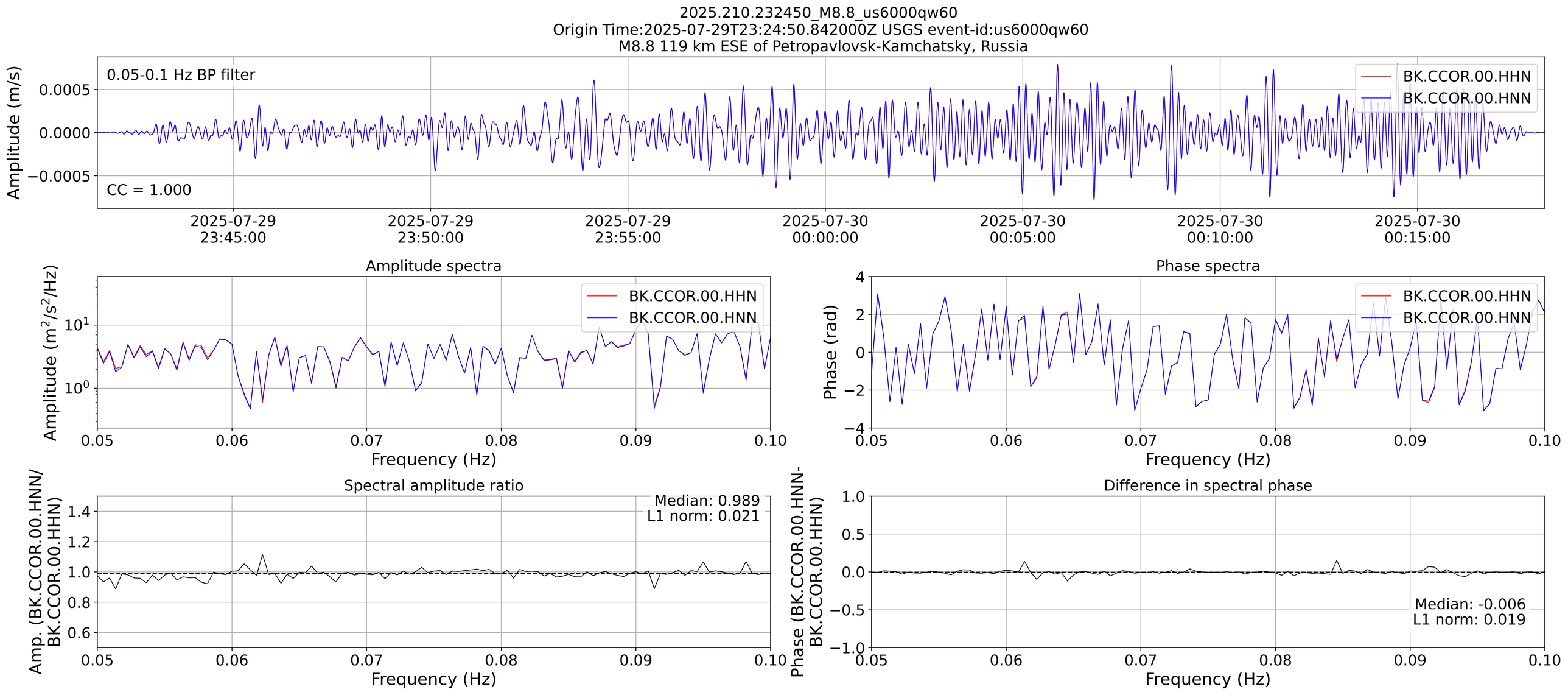

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.BUCI.00.HHZ
BK.BUCI.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNZ/ BK.BUCI.00.HHZ)
Median: 0.985
L1 norm: 0.084
Difference in spectral phase
Phase (BK.BUCI.00.HNZ- BK.BUCI.00.HHZ)
Median: -0.012
L1 norm: 0.115

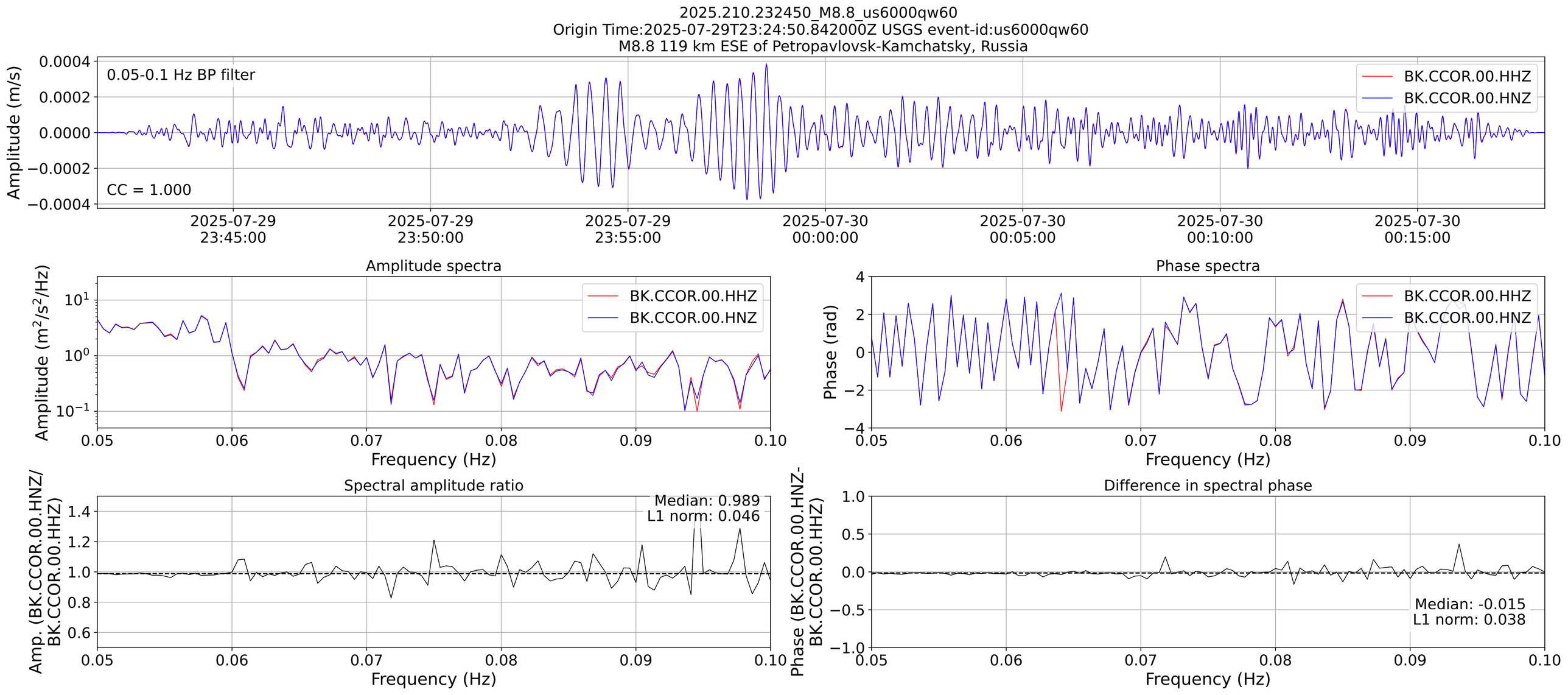

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BUCR.00.HHE
BK.BUCR.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNE/ BK.BUCR.00.HHE)
Median: 1.058
L1 norm: 0.039
Difference in spectral phase
Phase (BK.BUCR.00.HNE- BK.BUCR.00.HHE)
Median: 0.001
L1 norm: 0.042

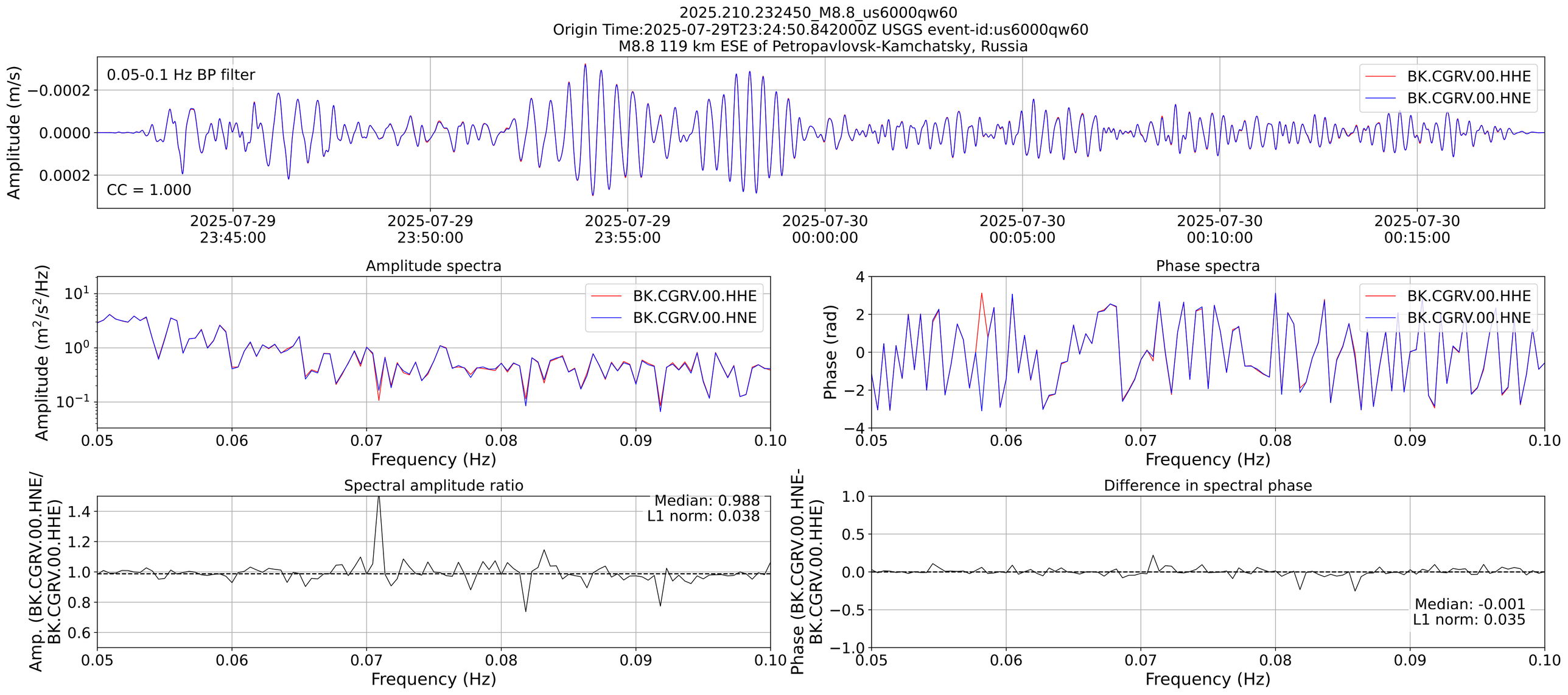

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.999
BK.BUCR.00.HHN
BK.BUCR.00.HNN
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNN/ BK.BUCR.00.HHN)
Median: 1.053
L1 norm: 0.047
Difference in spectral phase
Phase (BK.BUCR.00.HNN- BK.BUCR.00.HHN)
Median: 0.005
L1 norm: 0.045

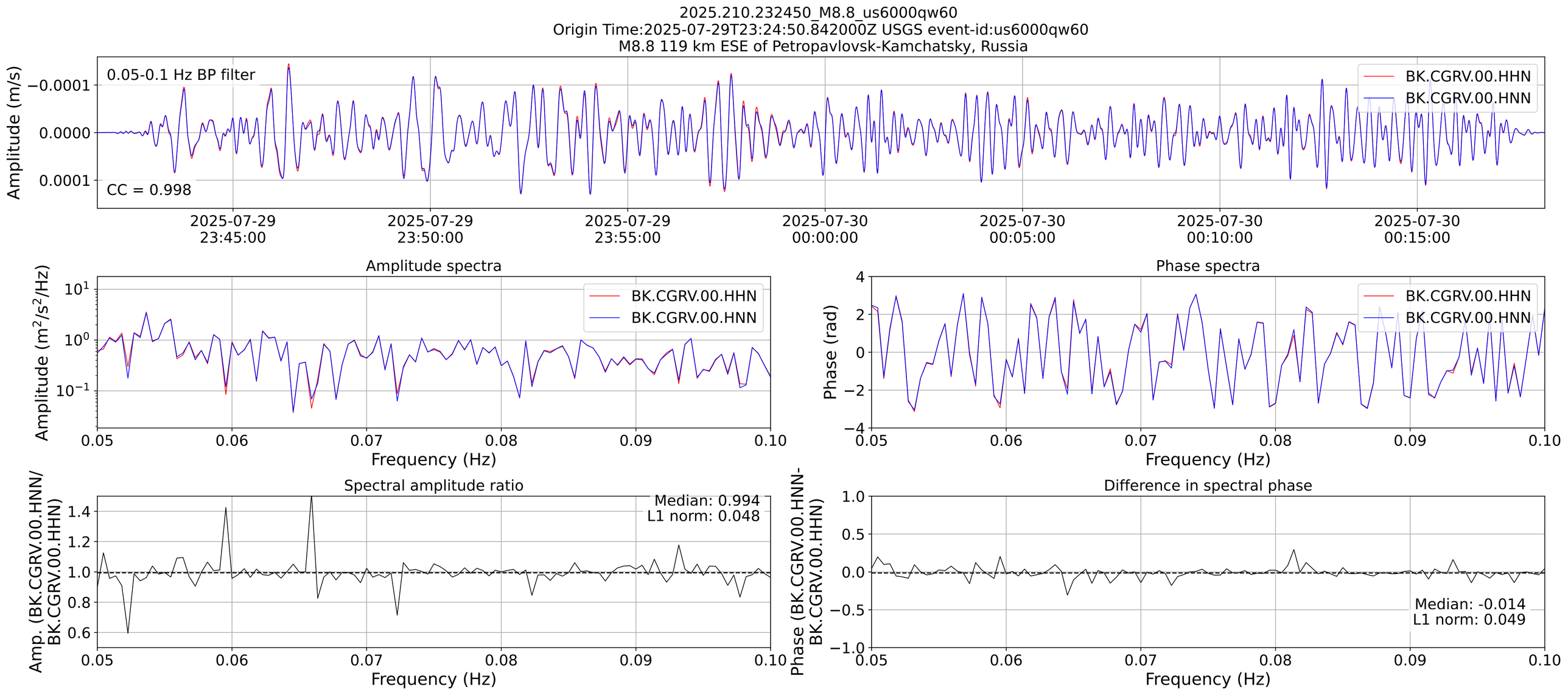

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.BUCR.00.HHZ
BK.BUCR.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNZ/ BK.BUCR.00.HHZ)
Median: 1.058
L1 norm: 0.035
Difference in spectral phase
Phase (BK.BUCR.00.HNZ- BK.BUCR.00.HHZ)
Median: 0.003
L1 norm: 0.062

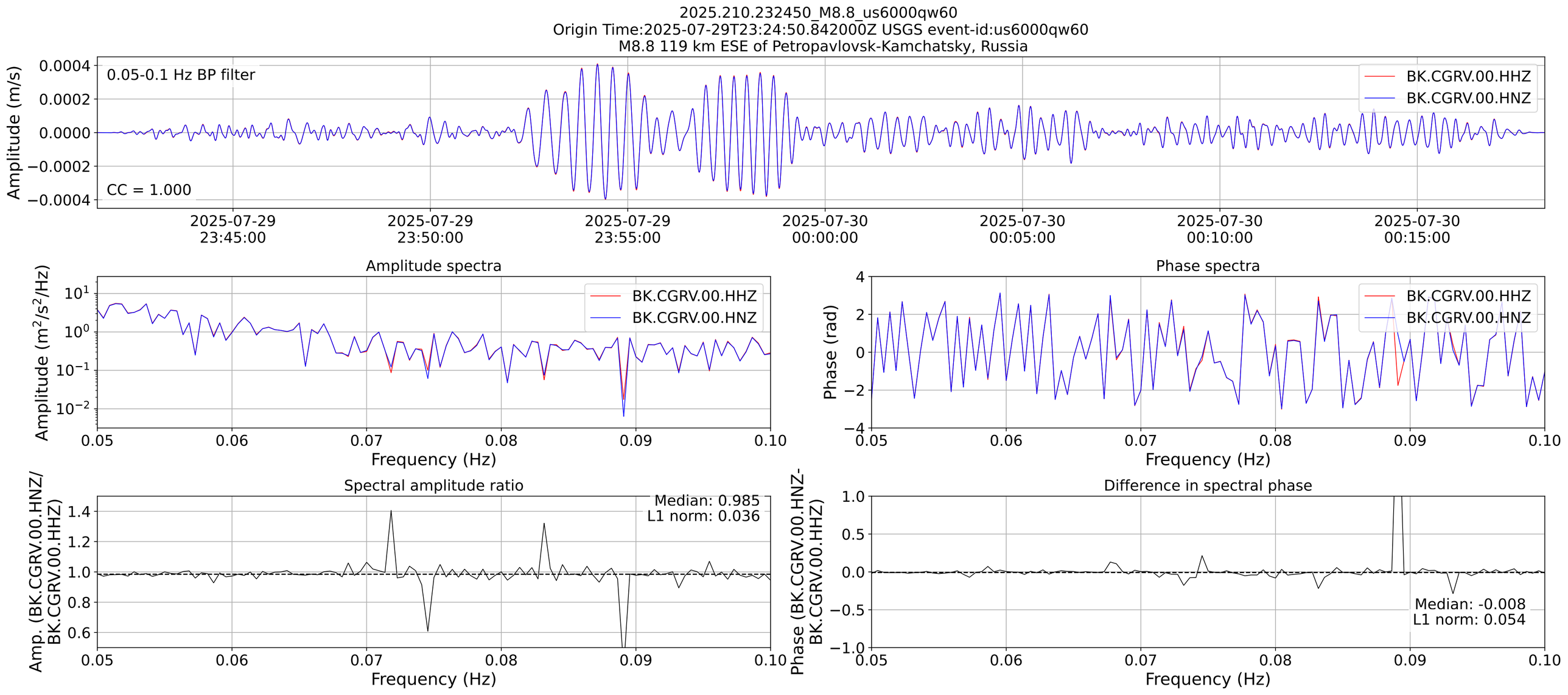

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.CCOR.00.HHE
BK.CCOR.00.HNE
Amplitude (m/s)
0.0010
0.0005
0.0000
−0.0005
−0.0010
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNE/ BK.CCOR.00.HHE)
Median: 1.006
L1 norm: 0.014
Difference in spectral phase
Phase (BK.CCOR.00.HNE- BK.CCOR.00.HHE)
Median: -0.006
L1 norm: 0.011

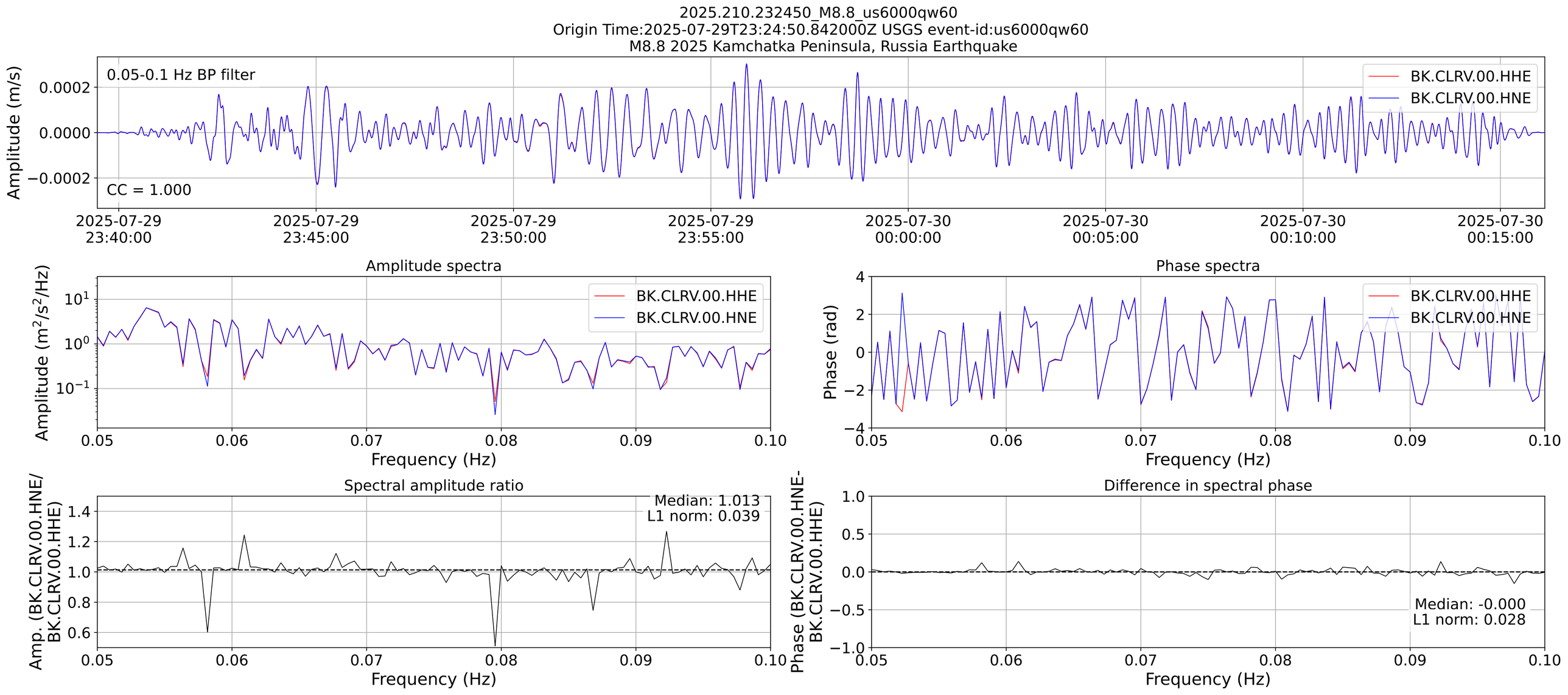

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.CCOR.00.HHN
BK.CCOR.00.HNN
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNN/ BK.CCOR.00.HHN)
Median: 0.989
L1 norm: 0.021
Difference in spectral phase
Phase (BK.CCOR.00.HNN- BK.CCOR.00.HHN)
Median: -0.006
L1 norm: 0.019

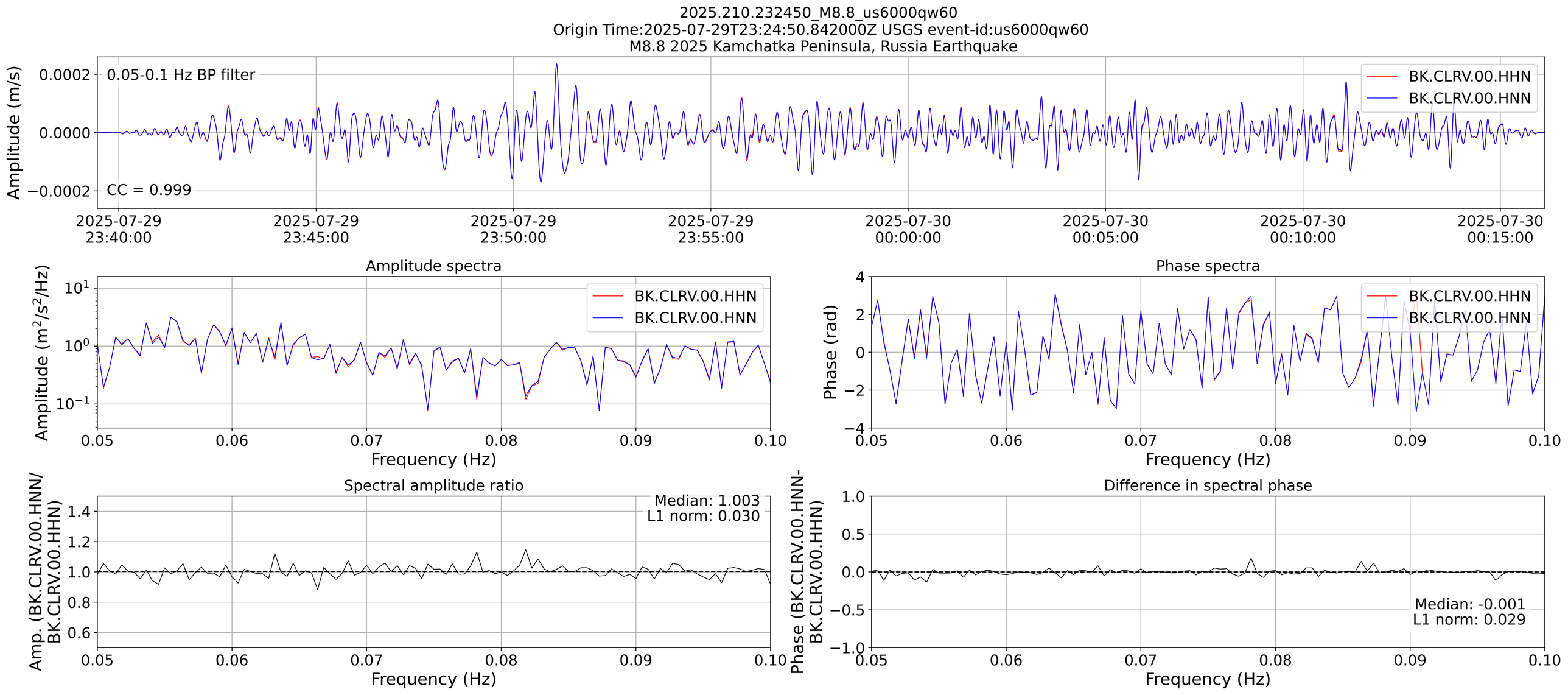

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.CCOR.00.HHZ
BK.CCOR.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNZ/ BK.CCOR.00.HHZ)
Median: 0.989
L1 norm: 0.046
Difference in spectral phase
Phase (BK.CCOR.00.HNZ- BK.CCOR.00.HHZ)
Median: -0.015
L1 norm: 0.038

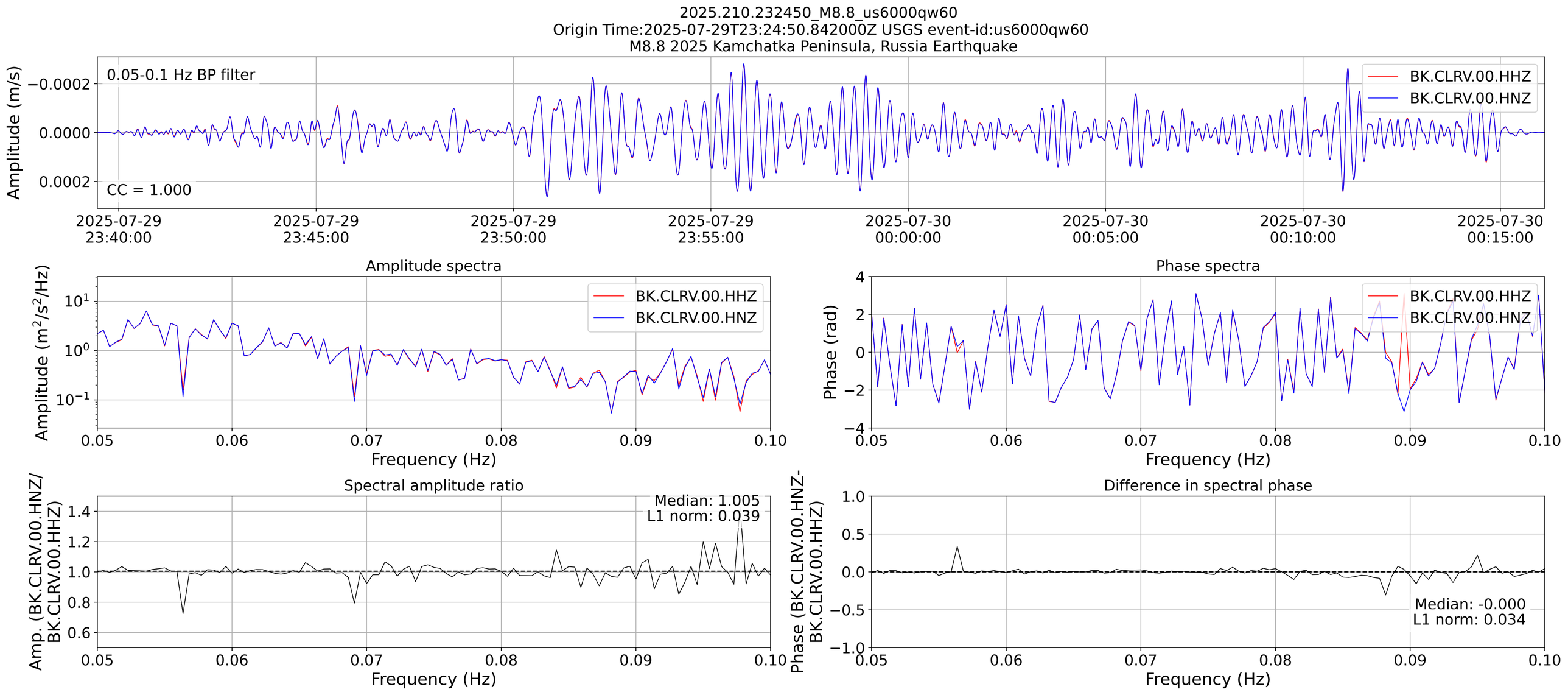

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.CGRV.00.HHE
BK.CGRV.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CGRV.00.HNE/ BK.CGRV.00.HHE)
Median: 0.988
L1 norm: 0.038
Difference in spectral phase
Phase (BK.CGRV.00.HNE- BK.CGRV.00.HHE)
Median: -0.001
L1 norm: 0.035

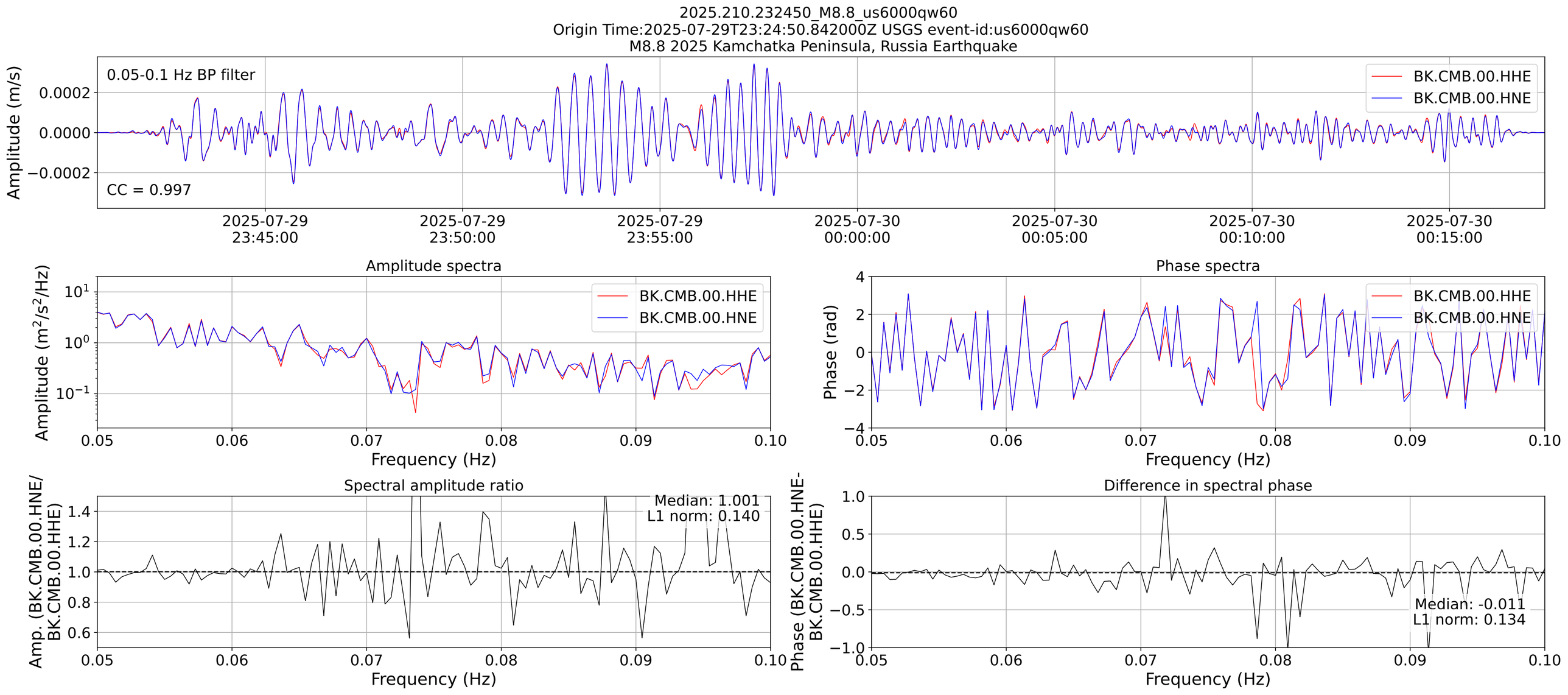

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 0.998
BK.CGRV.00.HHN
BK.CGRV.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CGRV.00.HNN/ BK.CGRV.00.HHN)
Median: 0.994
L1 norm: 0.048
Difference in spectral phase
Phase (BK.CGRV.00.HNN- BK.CGRV.00.HHN)
Median: -0.014
L1 norm: 0.049

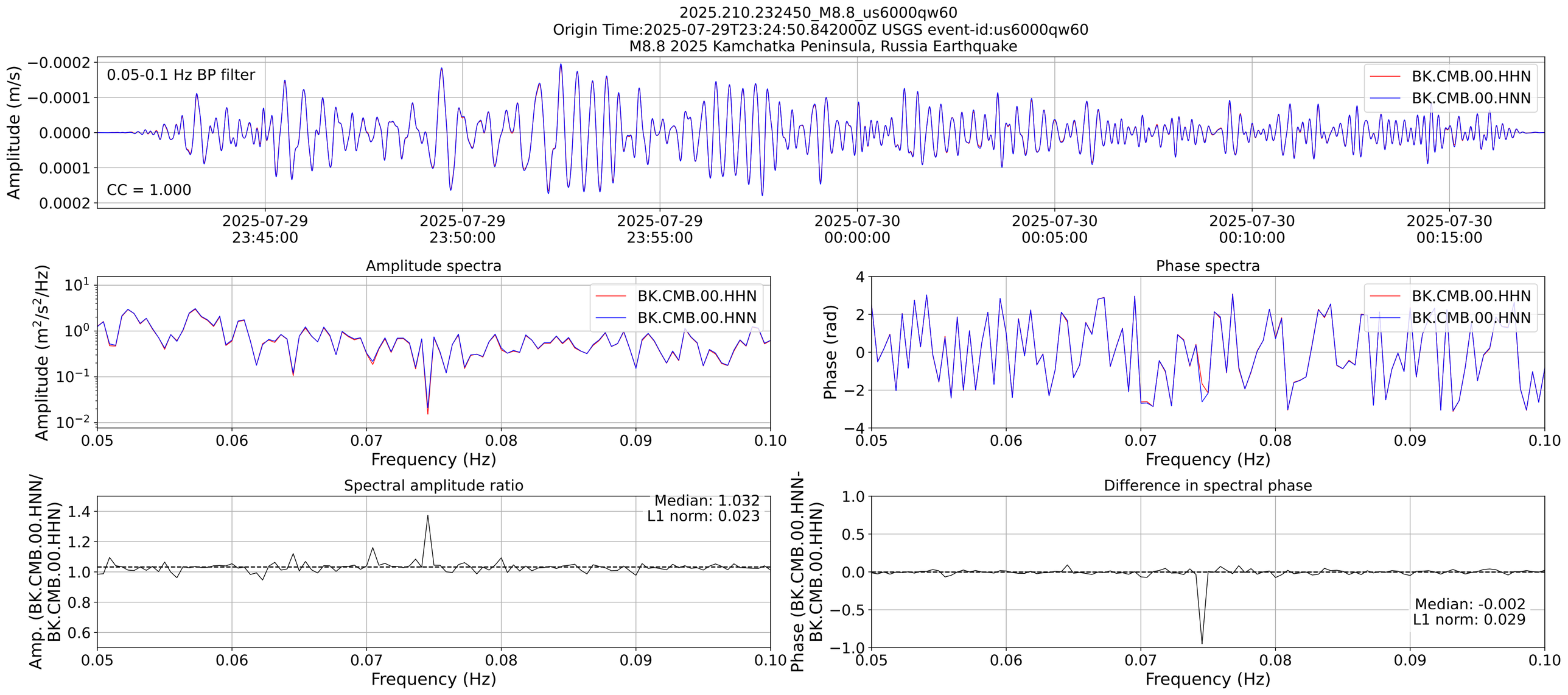

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 119 km ESE of Petropavlovsk-Kamchatsky, Russia
0.05-0.1 Hz BP filter
CC = 1.000
BK.CGRV.00.HHZ
BK.CGRV.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CGRV.00.HNZ/ BK.CGRV.00.HHZ)
Median: 0.985
L1 norm: 0.036
Difference in spectral phase
Phase (BK.CGRV.00.HNZ- BK.CGRV.00.HHZ)
Median: -0.008
L1 norm: 0.054

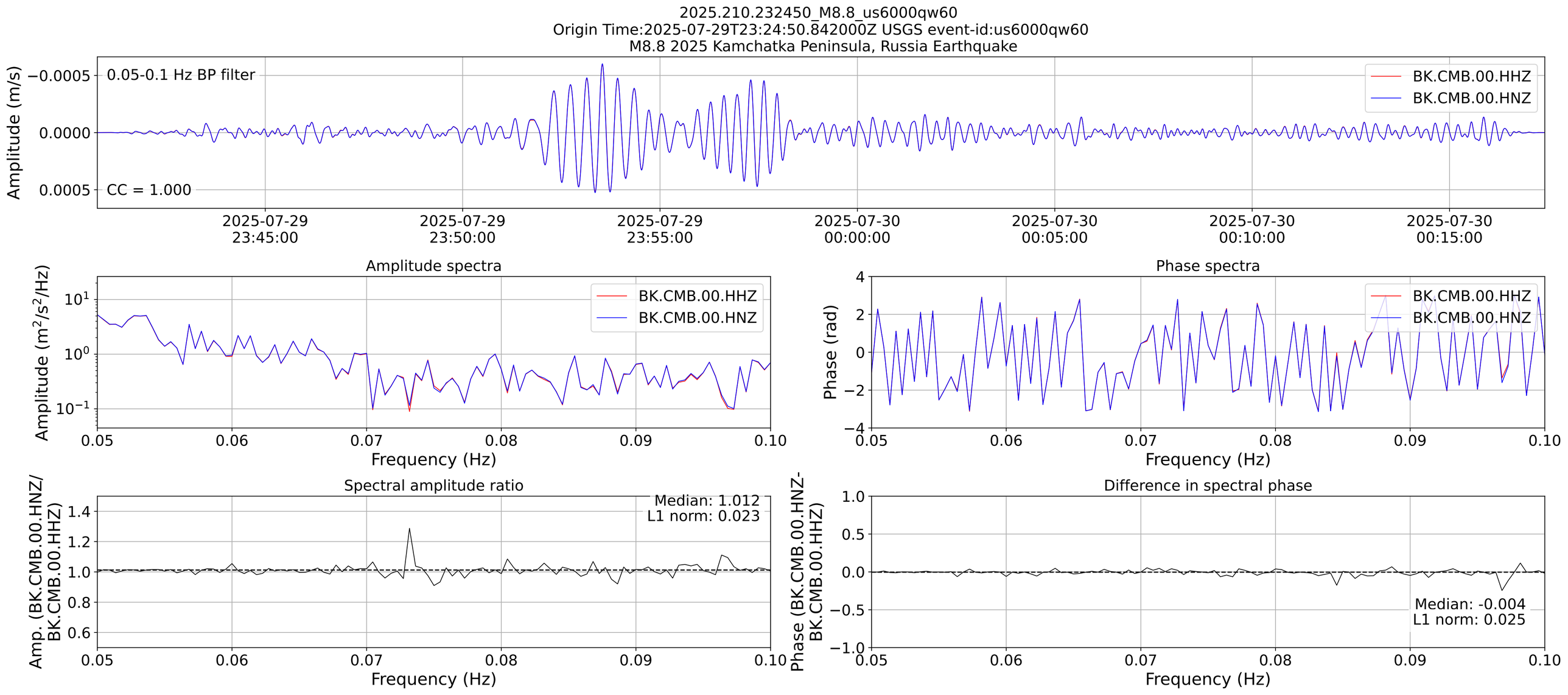

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.CLRV.00.HHE
BK.CLRV.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNE/ BK.CLRV.00.HHE)
Median: 1.013
L1 norm: 0.039
Difference in spectral phase
Phase (BK.CLRV.00.HNE- BK.CLRV.00.HHE)
Median: -0.000
L1 norm: 0.028

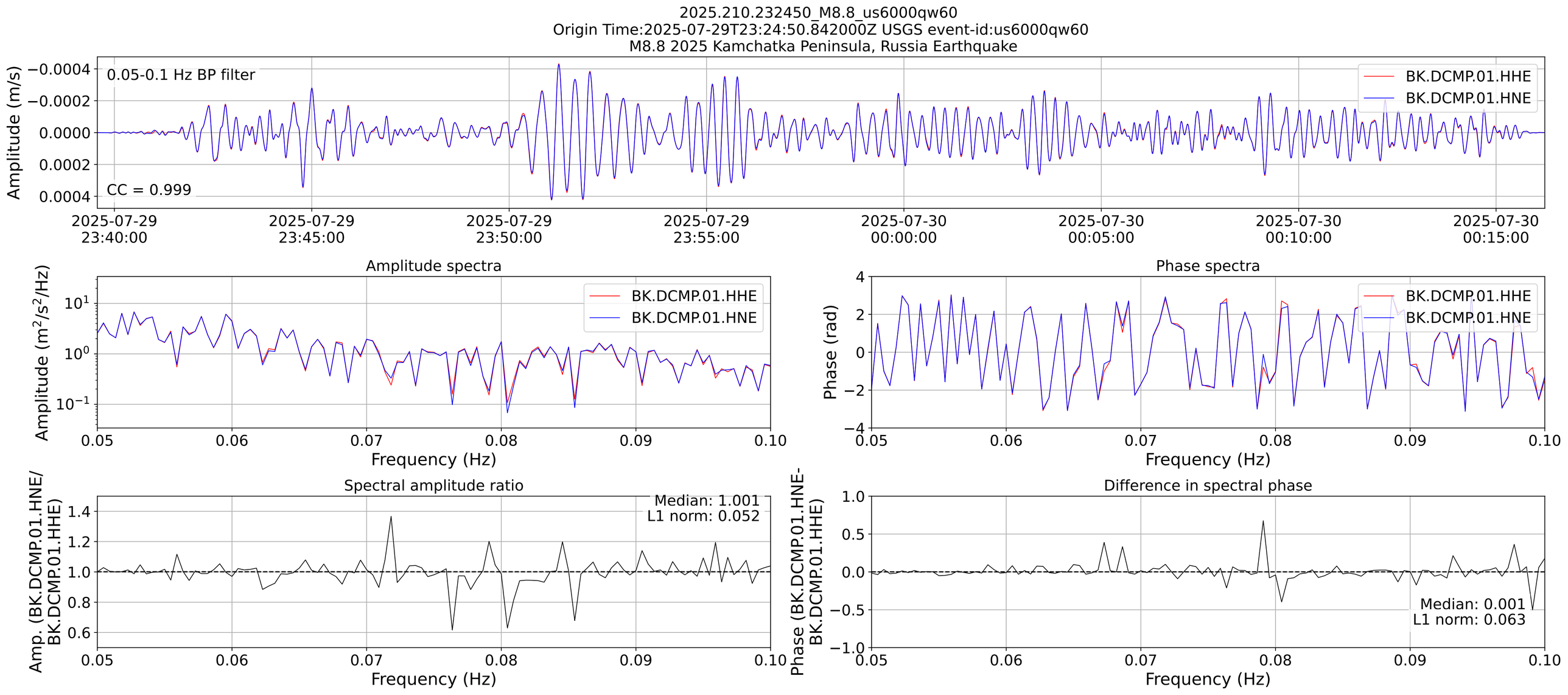

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.CLRV.00.HHN
BK.CLRV.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNN/ BK.CLRV.00.HHN)
Median: 1.003
L1 norm: 0.030
Difference in spectral phase
Phase (BK.CLRV.00.HNN- BK.CLRV.00.HHN)
Median: -0.001
L1 norm: 0.029

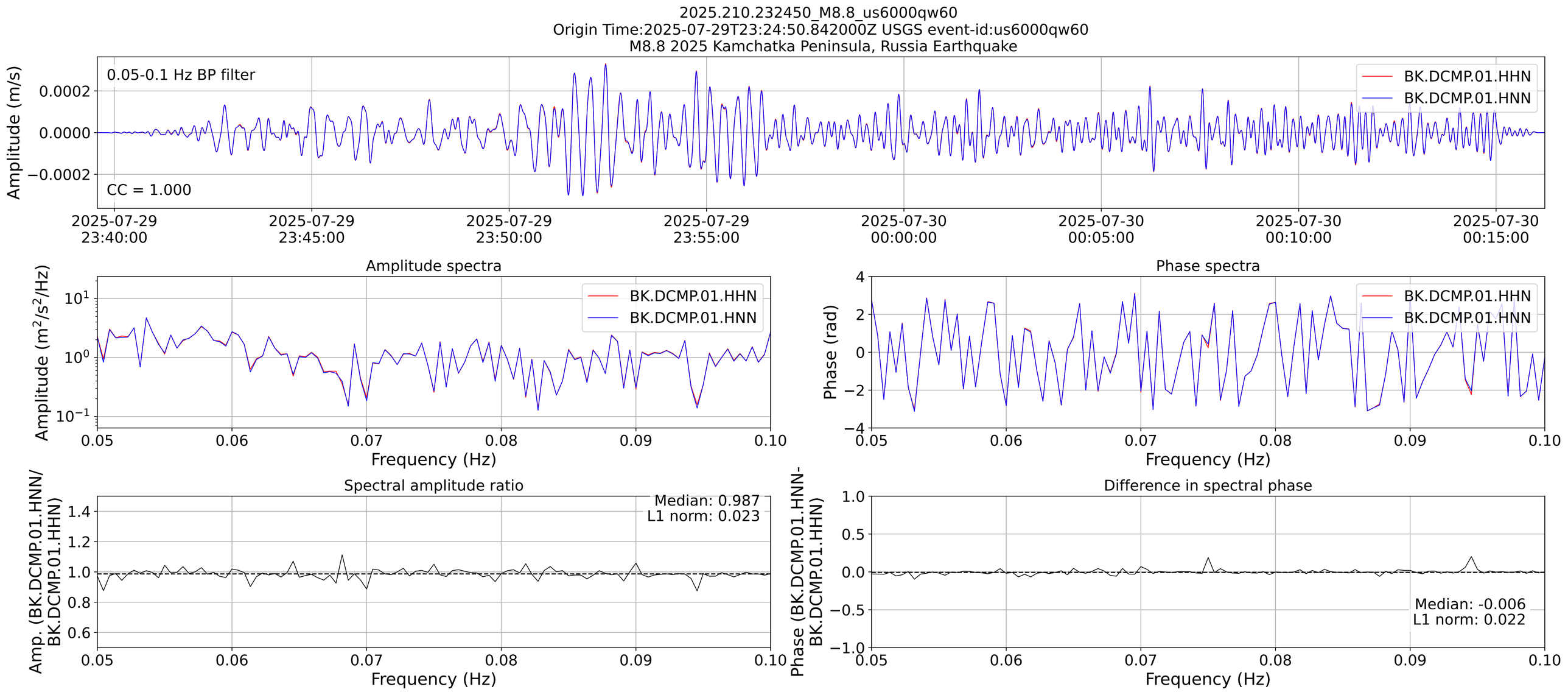

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.CLRV.00.HHZ
BK.CLRV.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNZ/ BK.CLRV.00.HHZ)
Median: 1.005
L1 norm: 0.039
Difference in spectral phase
Phase (BK.CLRV.00.HNZ- BK.CLRV.00.HHZ)
Median: -0.000
L1 norm: 0.034

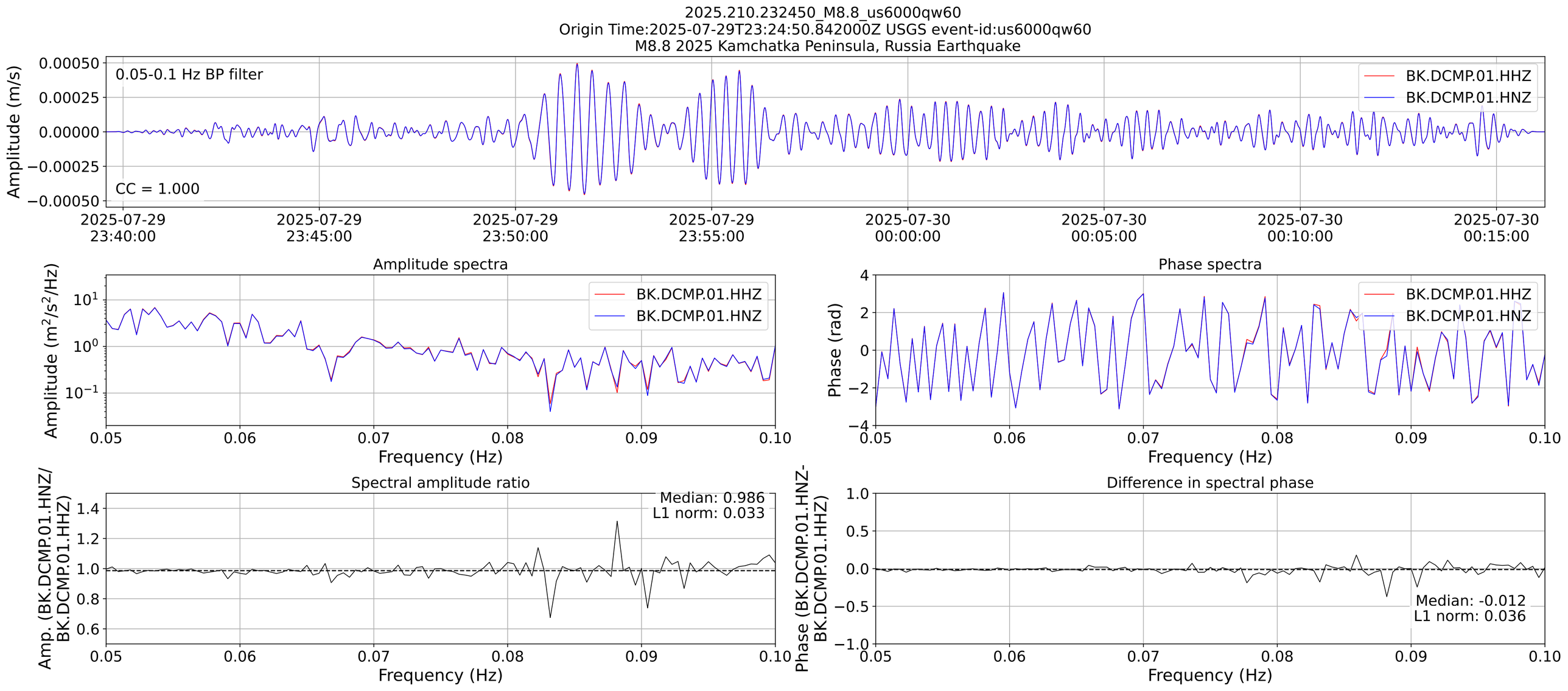

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.CMB.00.HHE
BK.CMB.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNE/ BK.CMB.00.HHE)
Median: 1.001
L1 norm: 0.140
Difference in spectral phase
Phase (BK.CMB.00.HNE-BK.CMB.00.HHE)
Median: -0.011
L1 norm: 0.134

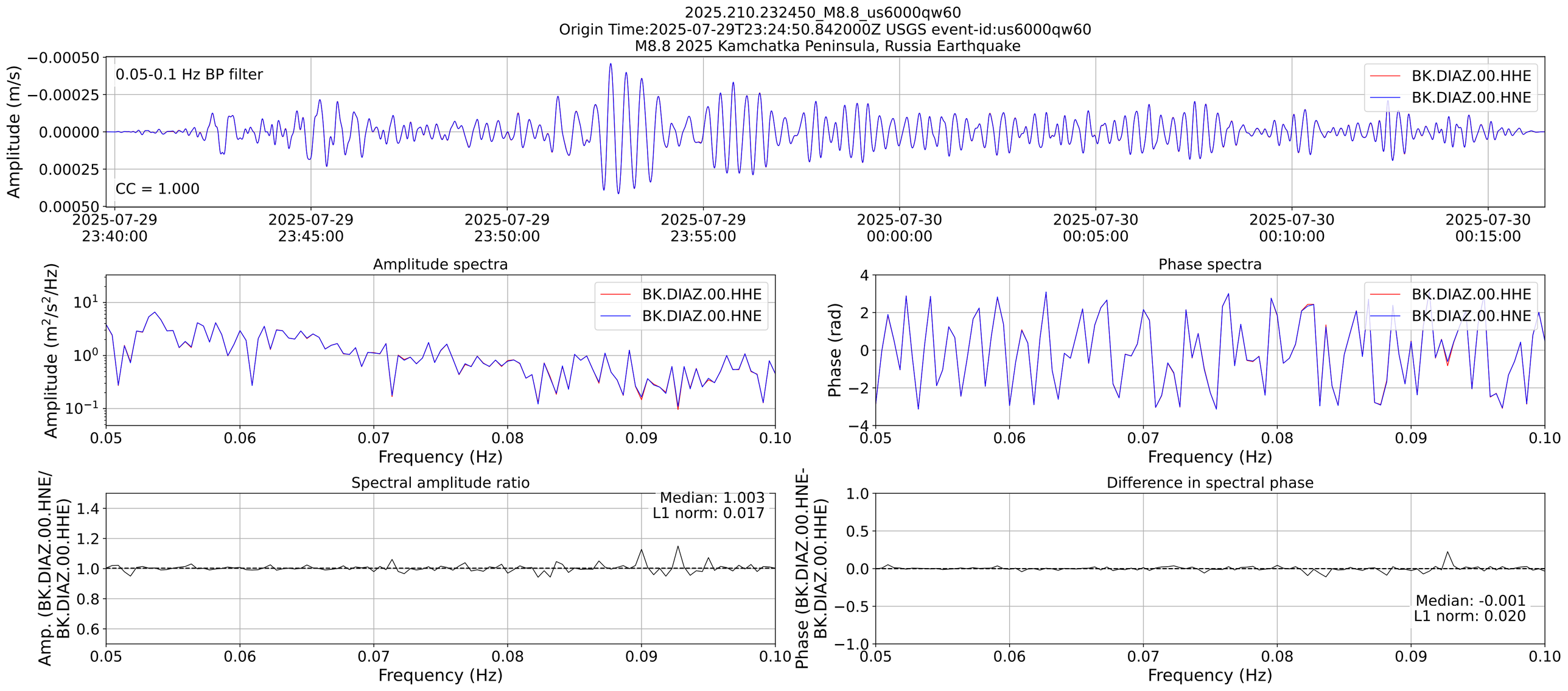

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.CMB.00.HHN
BK.CMB.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNN/ BK.CMB.00.HHN)
Median: 1.032
L1 norm: 0.023
Difference in spectral phase
Phase (BK.CMB.00.HNN-BK.CMB.00.HHN)
Median: -0.002
L1 norm: 0.029

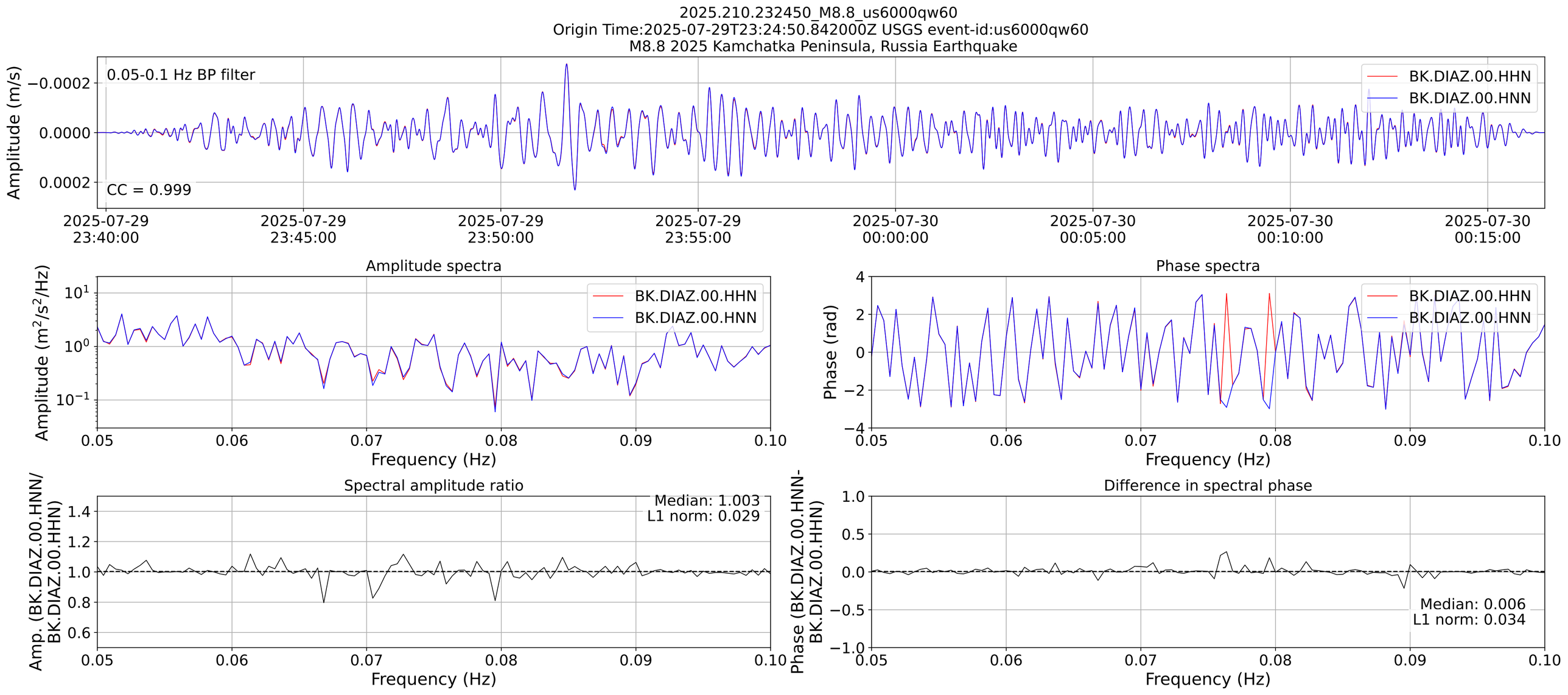

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.CMB.00.HHZ
BK.CMB.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNZ/ BK.CMB.00.HHZ)
Median: 1.012
L1 norm: 0.023
Difference in spectral phase
Phase (BK.CMB.00.HNZ-BK.CMB.00.HHZ)
Median: -0.004
L1 norm: 0.025

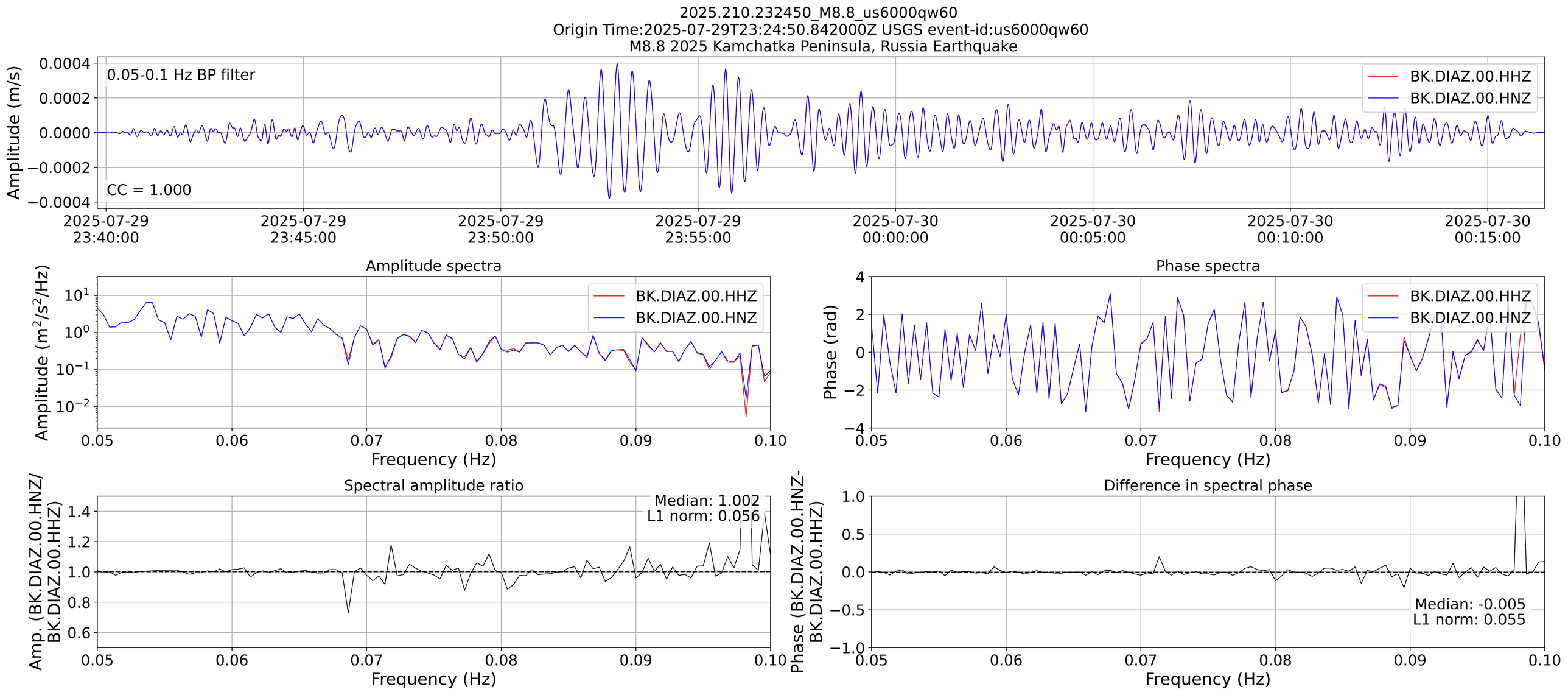

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.DCMP.01.HHE
BK.DCMP.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNE/ BK.DCMP.01.HHE)
Median: 1.001
L1 norm: 0.052
Difference in spectral phase
Phase (BK.DCMP.01.HNE- BK.DCMP.01.HHE)
Median: 0.001
L1 norm: 0.063

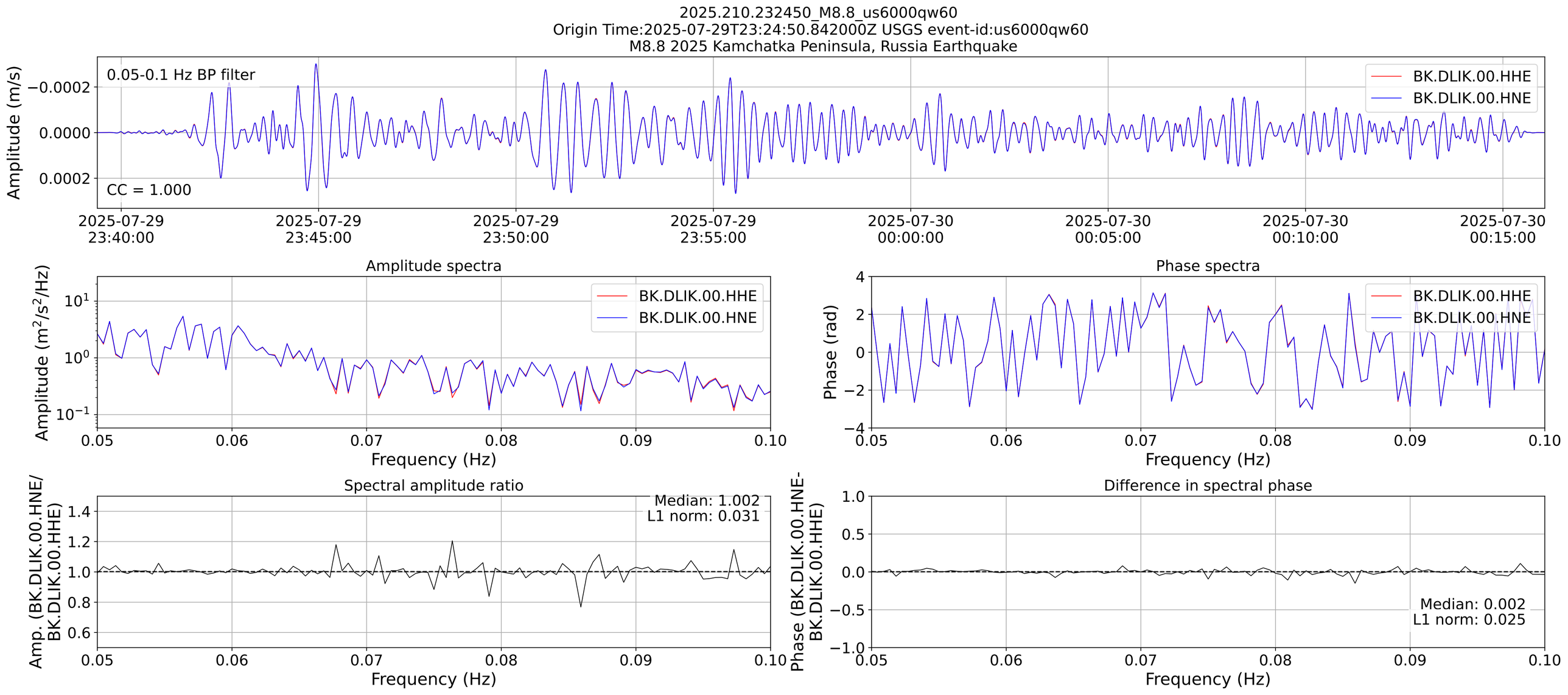

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DCMP.01.HHN
BK.DCMP.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNN/ BK.DCMP.01.HHN)
Median: 0.987
L1 norm: 0.023
Difference in spectral phase
Phase (BK.DCMP.01.HNN- BK.DCMP.01.HHN)
Median: -0.006
L1 norm: 0.022

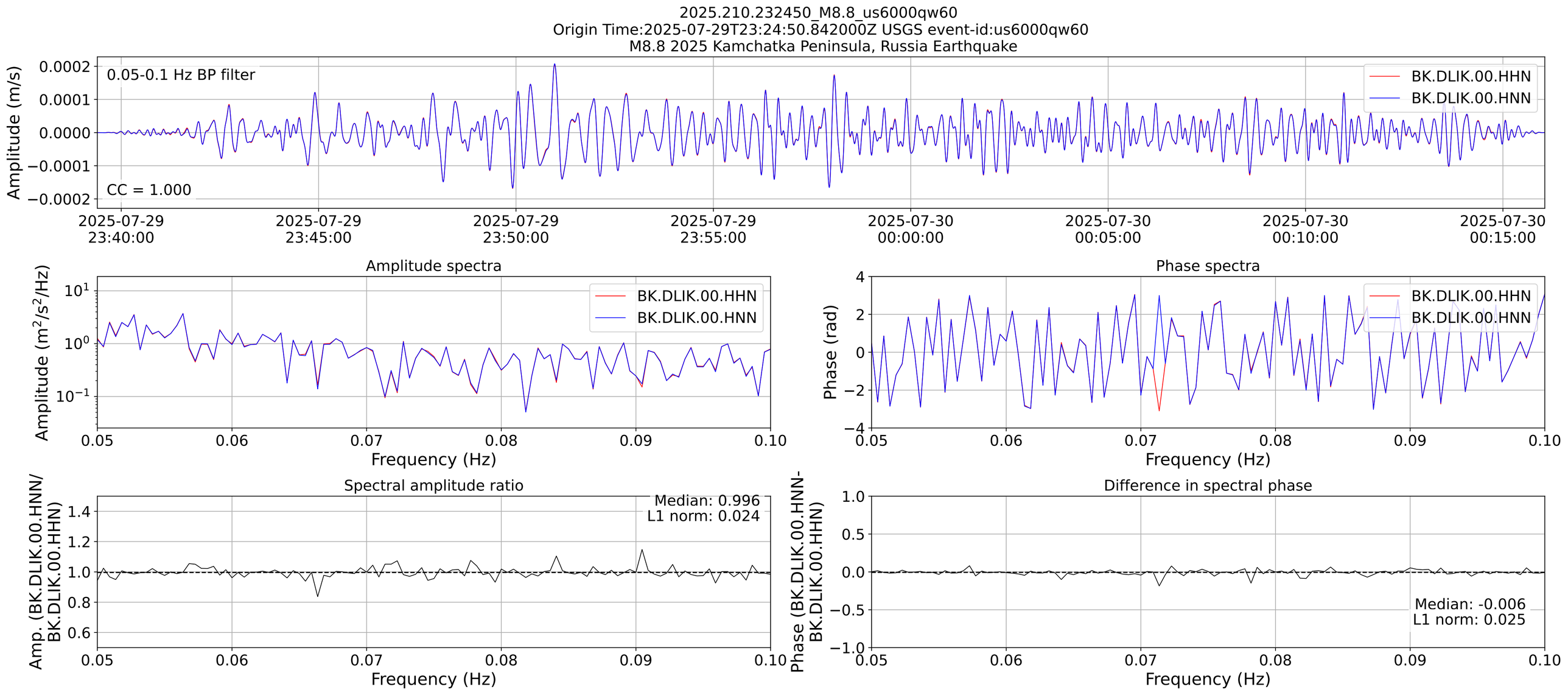

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DCMP.01.HHZ
BK.DCMP.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNZ/ BK.DCMP.01.HHZ)
Median: 0.986
L1 norm: 0.033
Difference in spectral phase
Phase (BK.DCMP.01.HNZ-BK.DCMP.01.HHZ)
Median: -0.012
L1 norm: 0.036

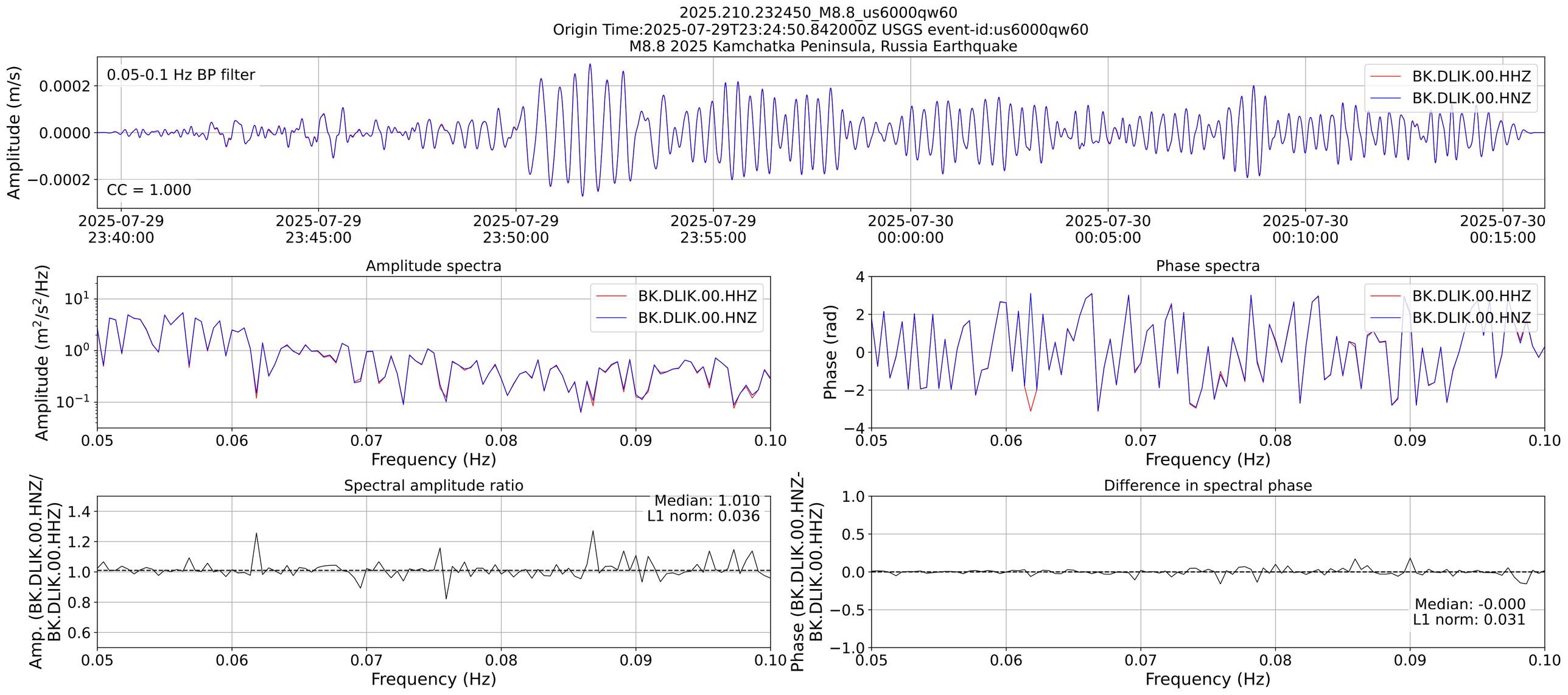

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DIAZ.00.HHE
BK.DIAZ.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNE/ BK.DIAZ.00.HHE)
Median: 1.003
L1 norm: 0.017
Difference in spectral phase
Phase (BK.DIAZ.00.HNE- BK.DIAZ.00.HHE)
Median: -0.001
L1 norm: 0.020

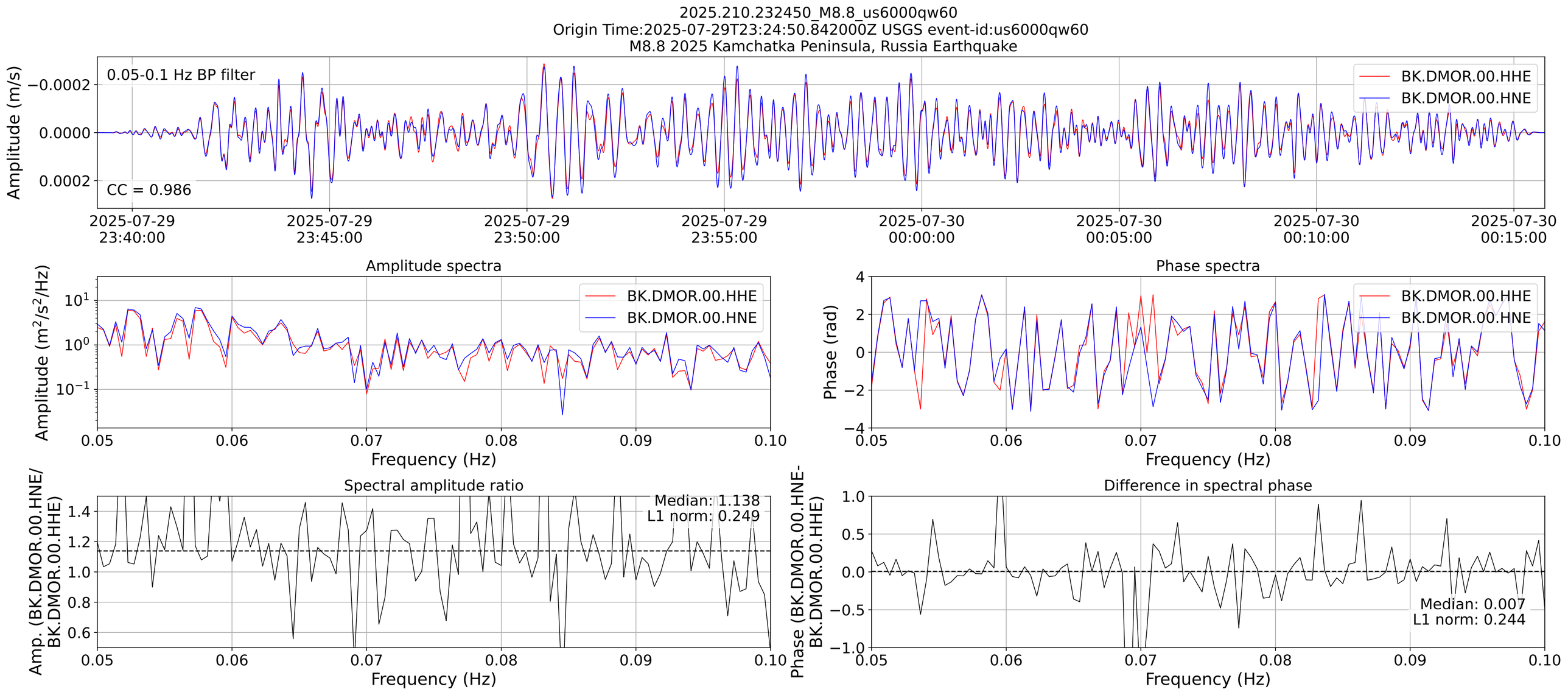

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.DIAZ.00.HHN
BK.DIAZ.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNN/ BK.DIAZ.00.HHN)
Median: 1.003
L1 norm: 0.029
Difference in spectral phase
Phase (BK.DIAZ.00.HNN- BK.DIAZ.00.HHN)
Median: 0.006
L1 norm: 0.034

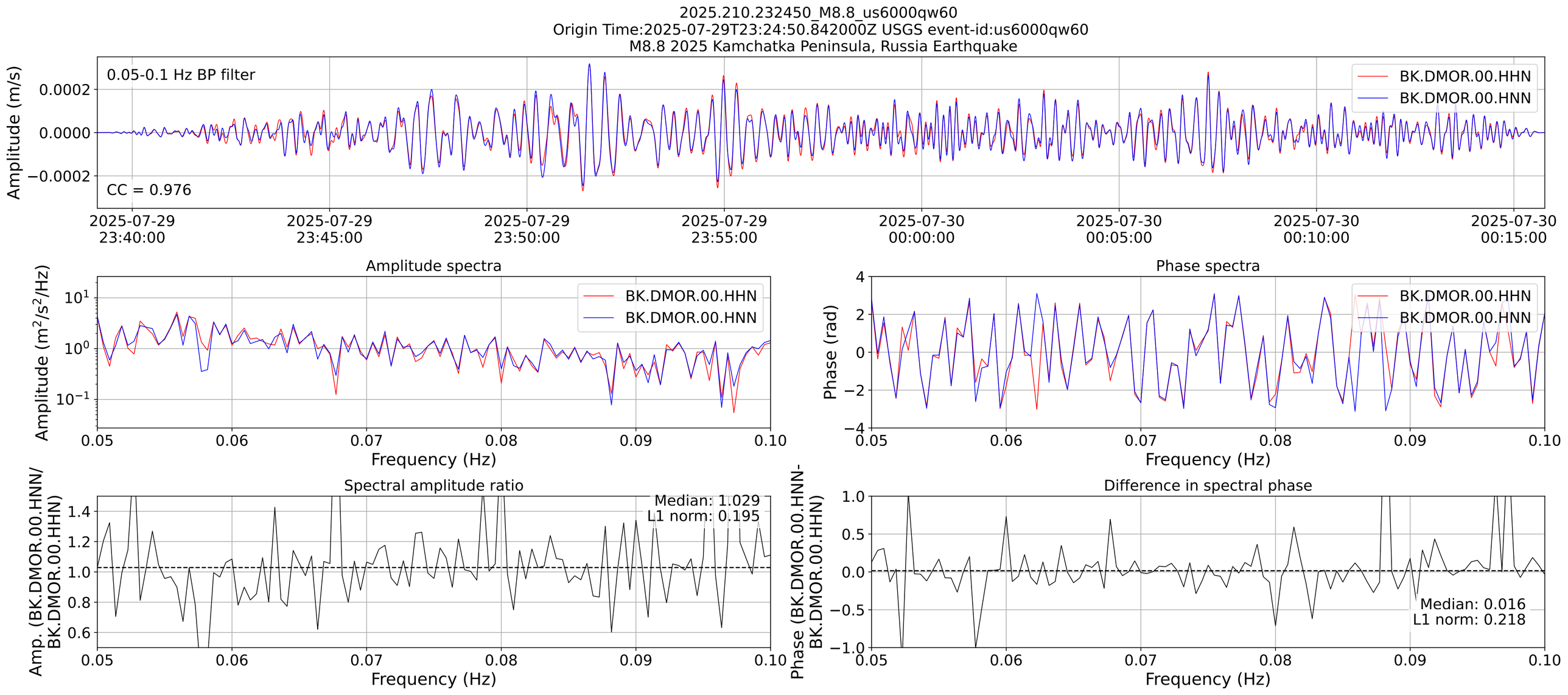

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DIAZ.00.HHZ
BK.DIAZ.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNZ/ BK.DIAZ.00.HHZ)
Median: 1.002
L1 norm: 0.056
Difference in spectral phase
Phase (BK.DIAZ.00.HNZ-BK.DIAZ.00.HHZ)
Median: -0.005
L1 norm: 0.055

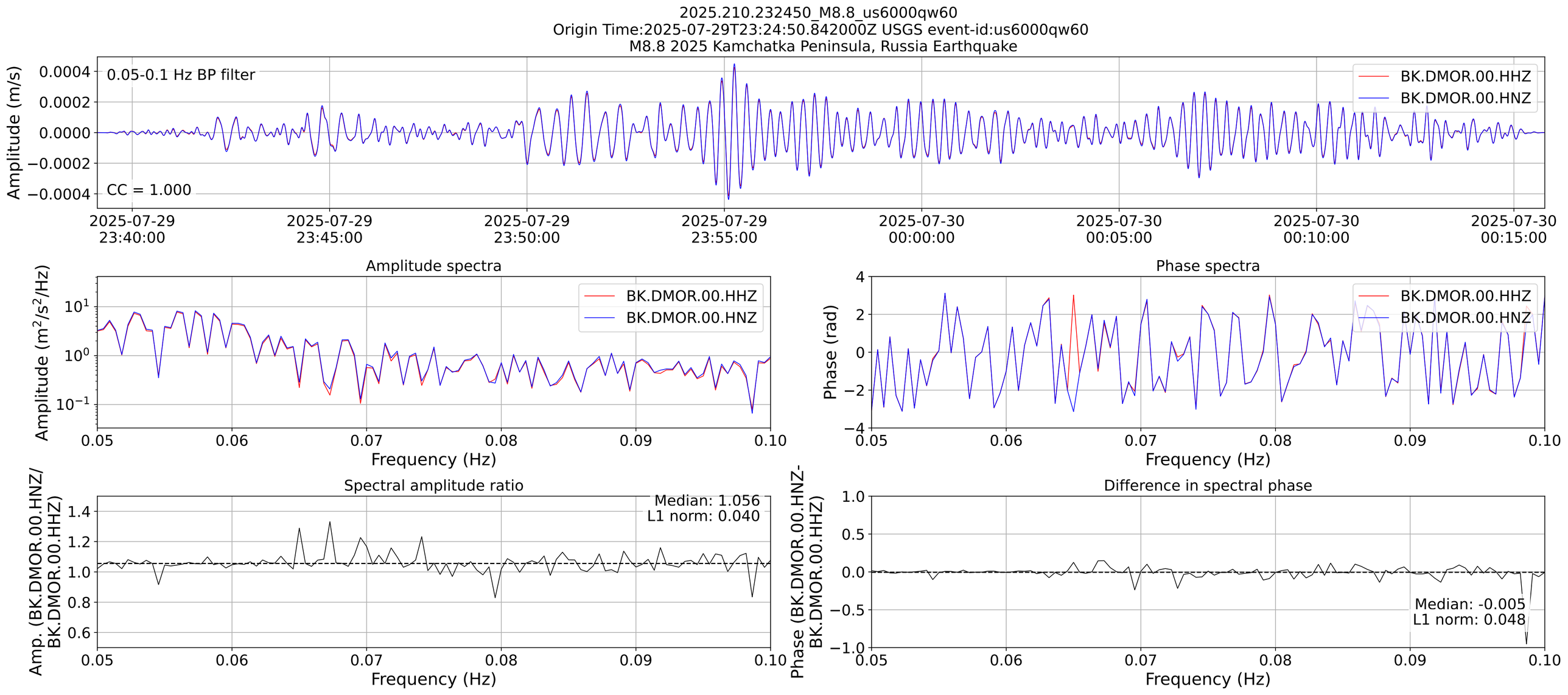

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DLIK.00.HHE
BK.DLIK.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNE/ BK.DLIK.00.HHE)
Median: 1.002
L1 norm: 0.031
Difference in spectral phase
Phase (BK.DLIK.00.HNE- BK.DLIK.00.HHE)
Median: 0.002
L1 norm: 0.025

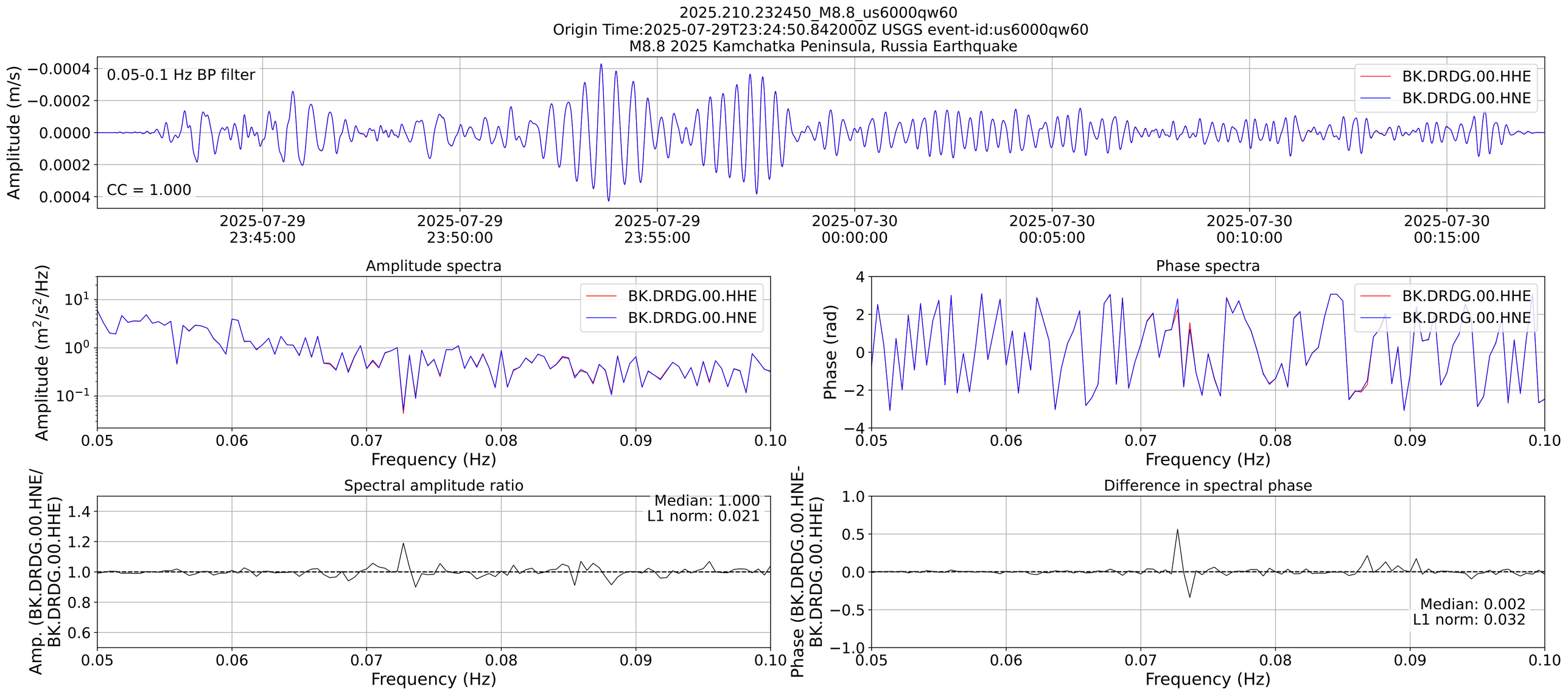

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DLIK.00.HHN
BK.DLIK.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNN/ BK.DLIK.00.HHN)
Median: 0.996
L1 norm: 0.024
Difference in spectral phase
Phase (BK.DLIK.00.HNN- BK.DLIK.00.HHN)
Median: -0.006
L1 norm: 0.025

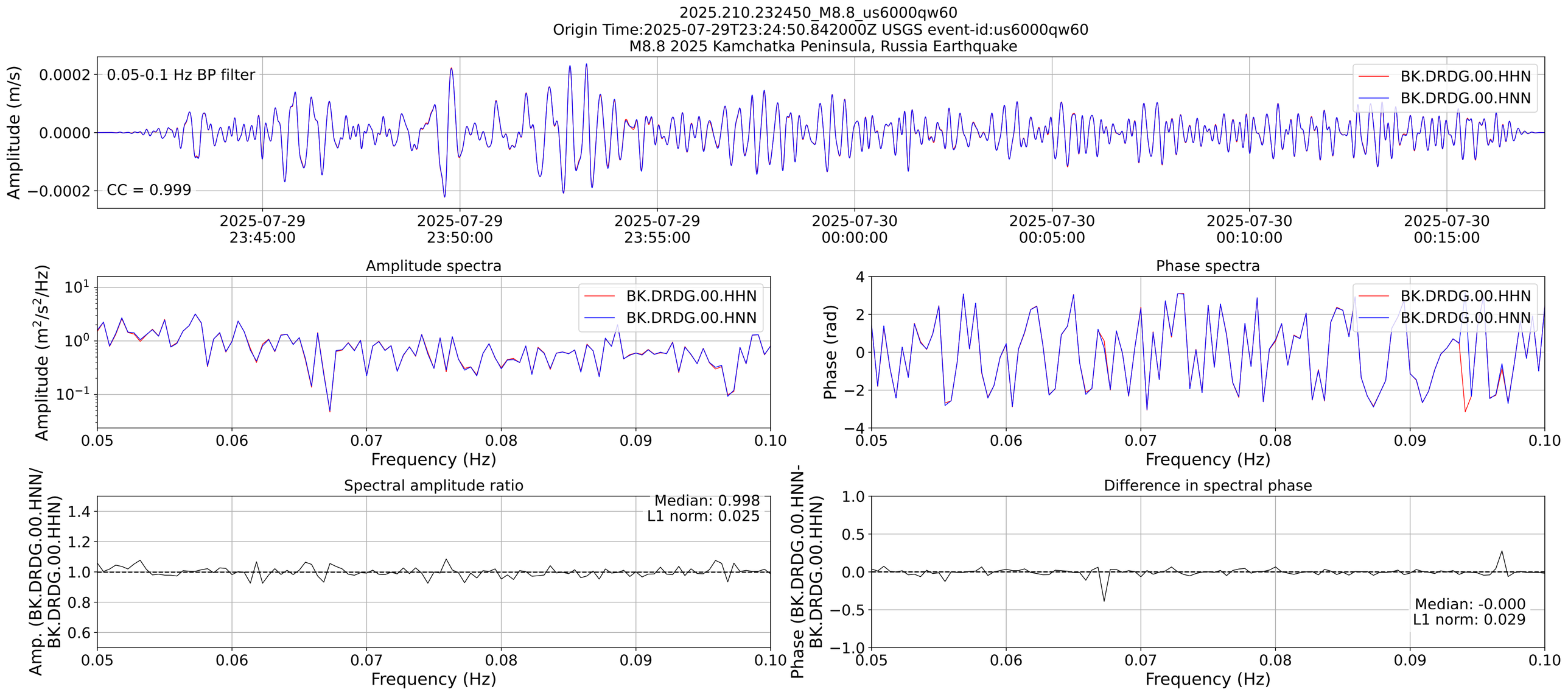

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DLIK.00.HHZ
BK.DLIK.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNZ/ BK.DLIK.00.HHZ)
Median: 1.010
L1 norm: 0.036
Difference in spectral phase
Phase (BK.DLIK.00.HNZ- BK.DLIK.00.HHZ)
Median: -0.000
L1 norm: 0.031

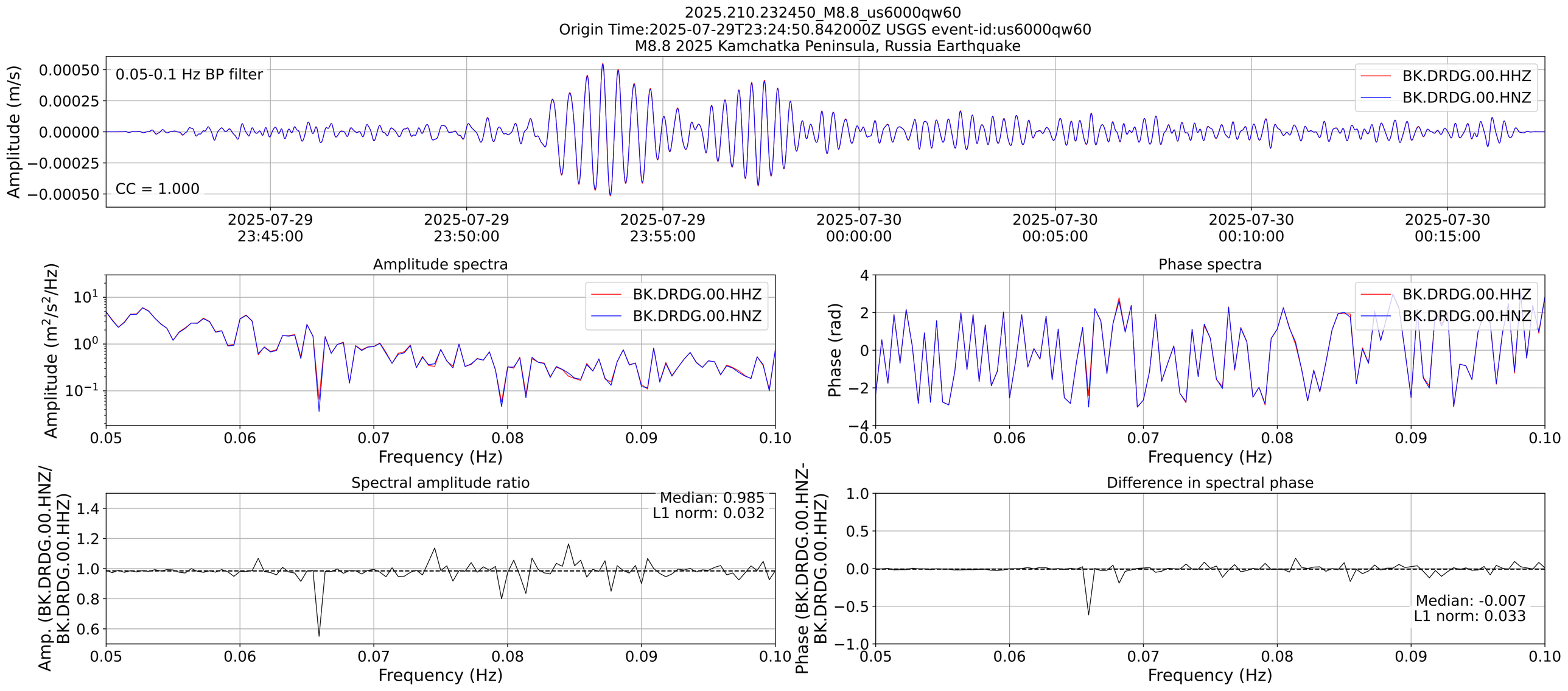

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.986
BK.DMOR.00.HHE
BK.DMOR.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNE/ BK.DMOR.00.HHE)
Median: 1.138
L1 norm: 0.249
Difference in spectral phase
Phase (BK.DMOR.00.HNE- BK.DMOR.00.HHE)
Median: 0.007
L1 norm: 0.244

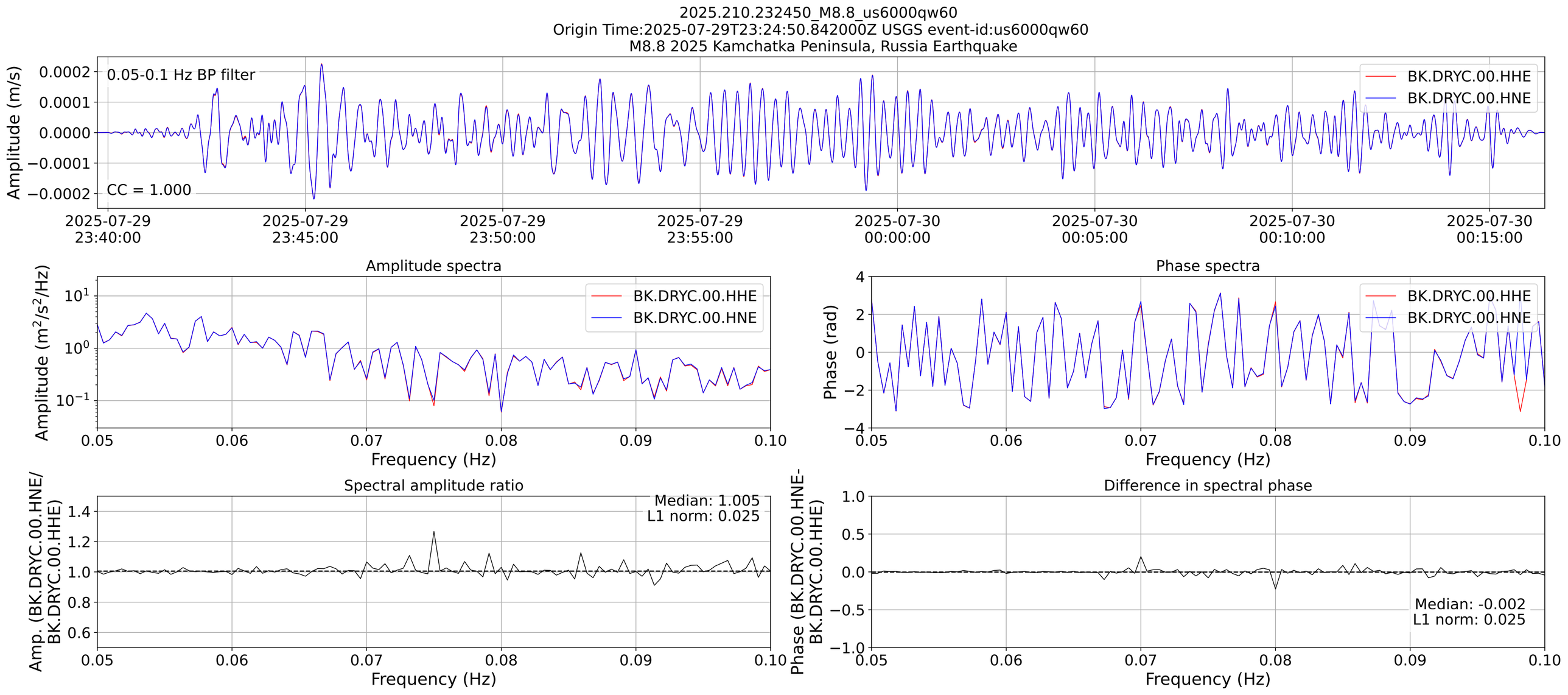

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.976
BK.DMOR.00.HHN
BK.DMOR.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNN/ BK.DMOR.00.HHN)
Median: 1.029
L1 norm: 0.195
Difference in spectral phase
Phase (BK.DMOR.00.HNN- BK.DMOR.00.HHN)
Median: 0.016
L1 norm: 0.218

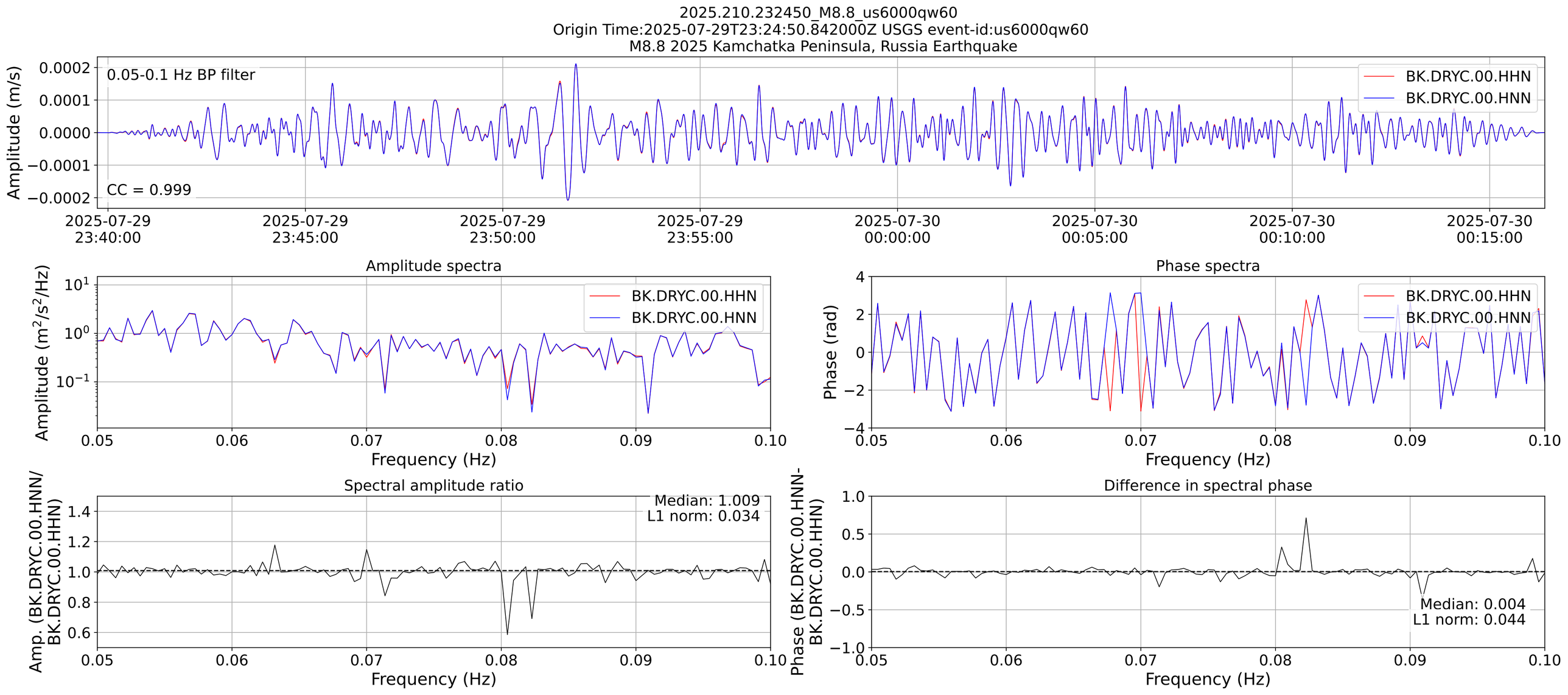

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DMOR.00.HHZ
BK.DMOR.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNZ/ BK.DMOR.00.HHZ)
Median: 1.056
L1 norm: 0.040
Difference in spectral phase
Phase (BK.DMOR.00.HNZ- BK.DMOR.00.HHZ)
Median: -0.005
L1 norm: 0.048

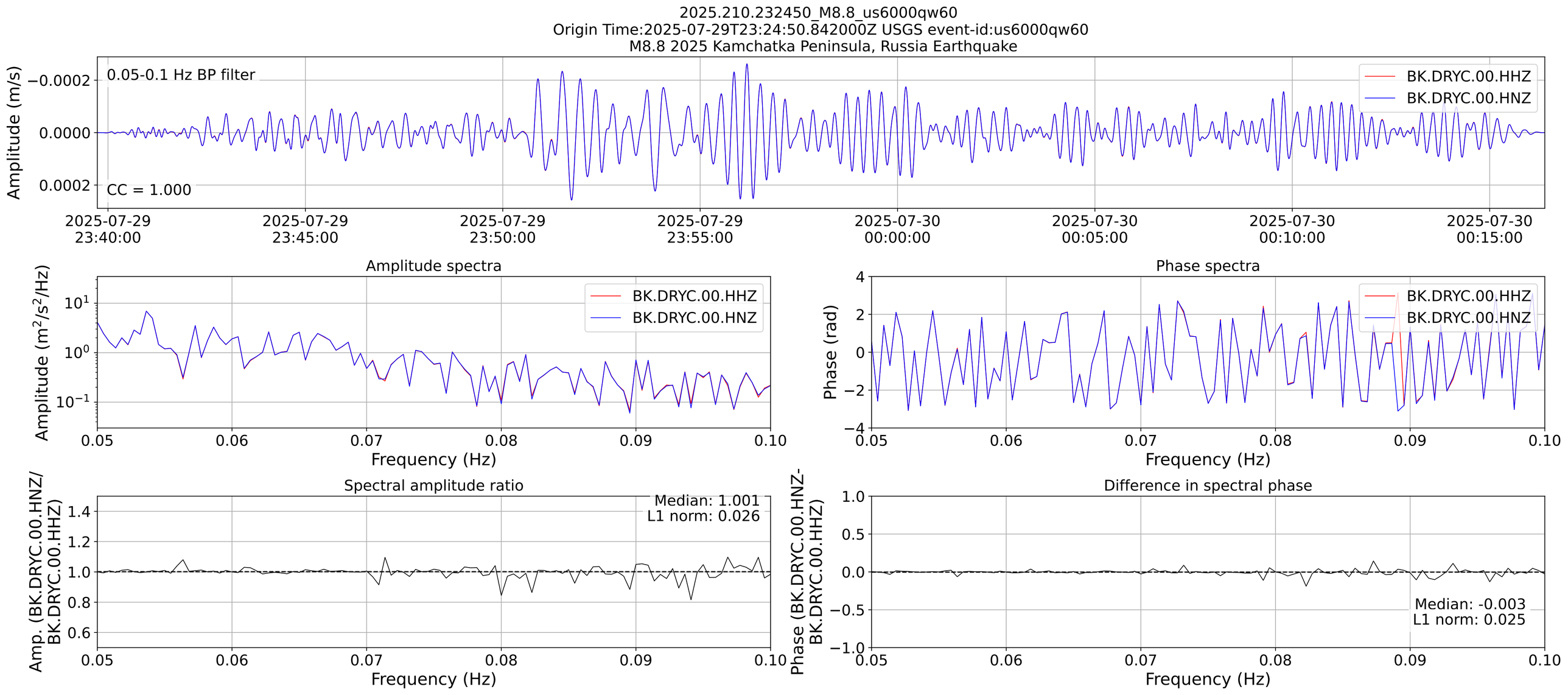

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DRDG.00.HHE
BK.DRDG.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNE/ BK.DRDG.00.HHE)
Median: 1.000
L1 norm: 0.021
Difference in spectral phase
Phase (BK.DRDG.00.HNE- BK.DRDG.00.HHE)
Median: 0.002
L1 norm: 0.032

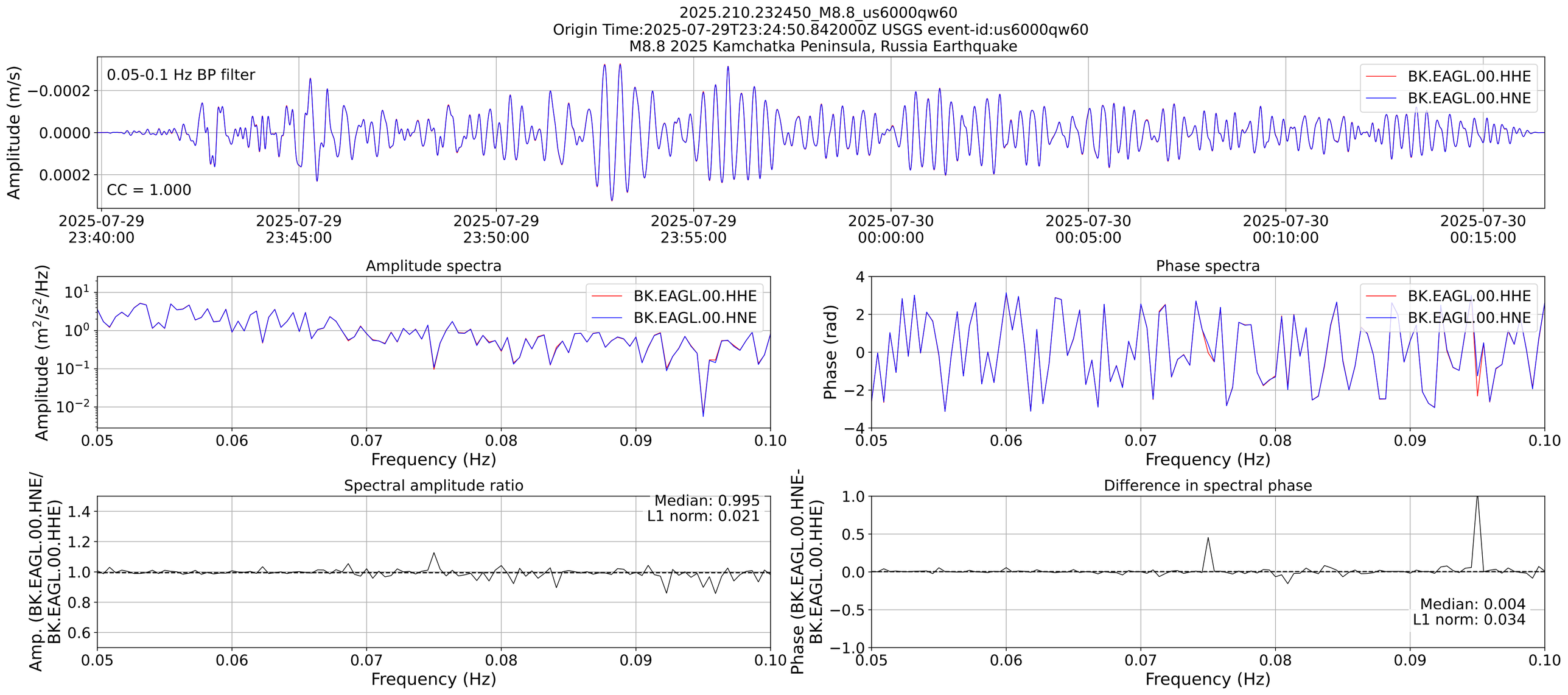

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.DRDG.00.HHN
BK.DRDG.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNN/ BK.DRDG.00.HHN)
Median: 0.998
L1 norm: 0.025
Difference in spectral phase
Phase (BK.DRDG.00.HNN- BK.DRDG.00.HHN)
Median: -0.000
L1 norm: 0.029

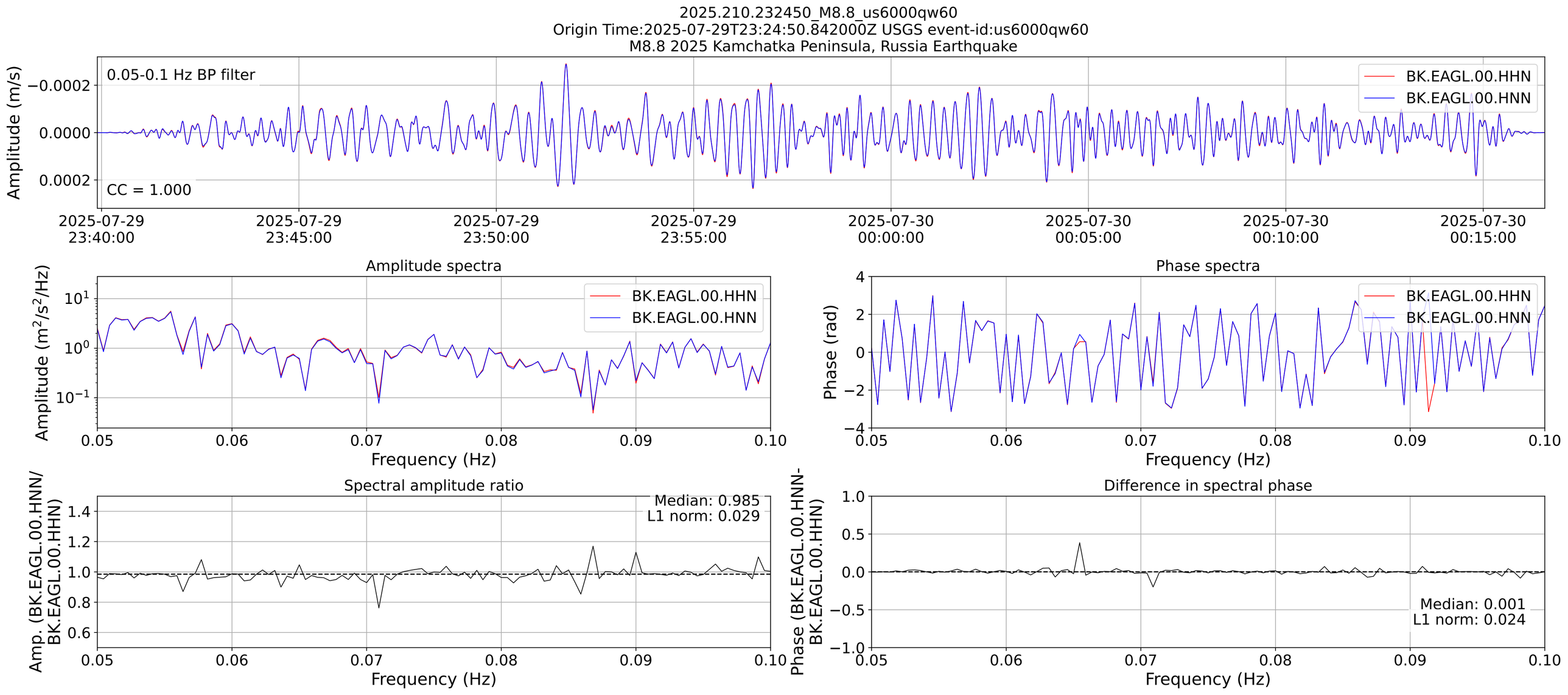

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DRDG.00.HHZ
BK.DRDG.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNZ/ BK.DRDG.00.HHZ)
Median: 0.985
L1 norm: 0.032
Difference in spectral phase
Phase (BK.DRDG.00.HNZ- BK.DRDG.00.HHZ)
Median: -0.007
L1 norm: 0.033

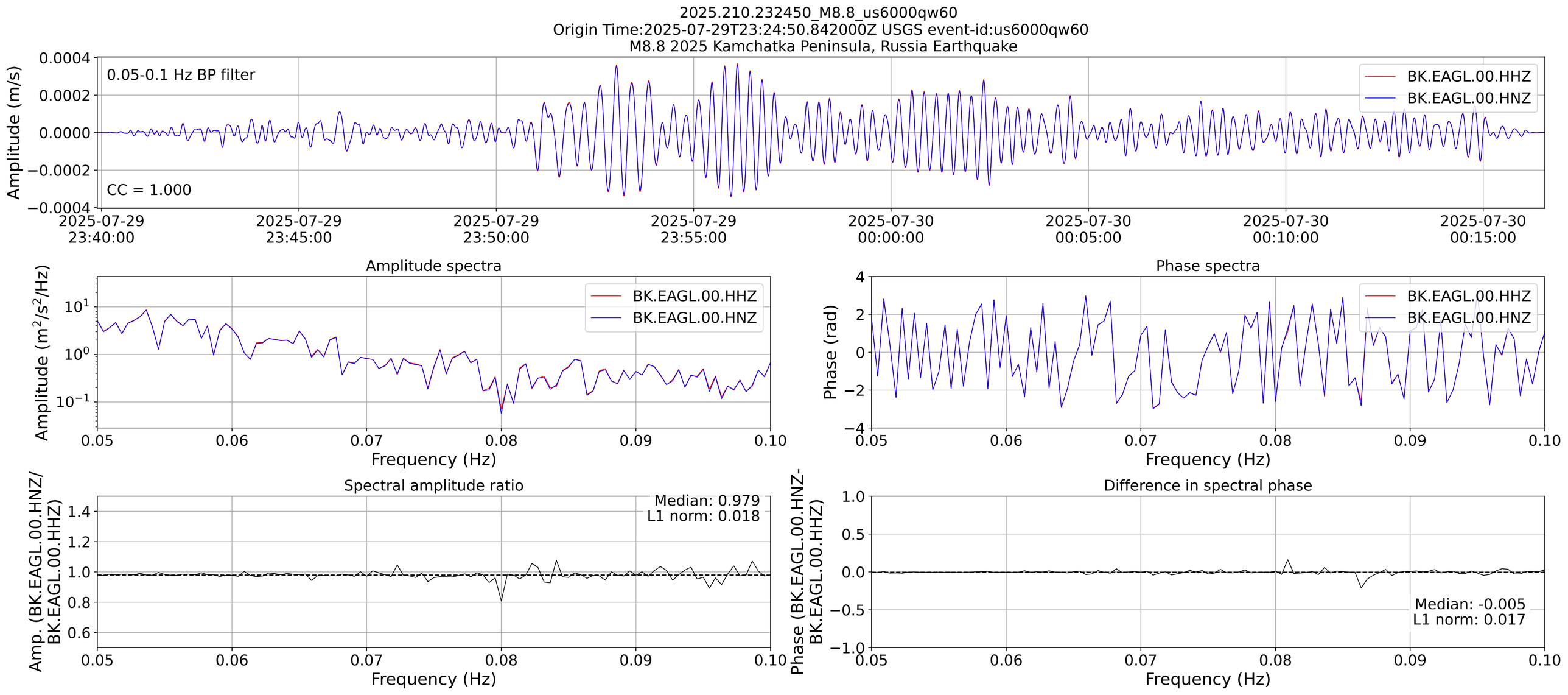

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DRYC.00.HHE
BK.DRYC.00.HNE
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRYC.00.HNE/ BK.DRYC.00.HHE)
Median: 1.005
L1 norm: 0.025
Difference in spectral phase
Phase (BK.DRYC.00.HNE- BK.DRYC.00.HHE)
Median: -0.002
L1 norm: 0.025

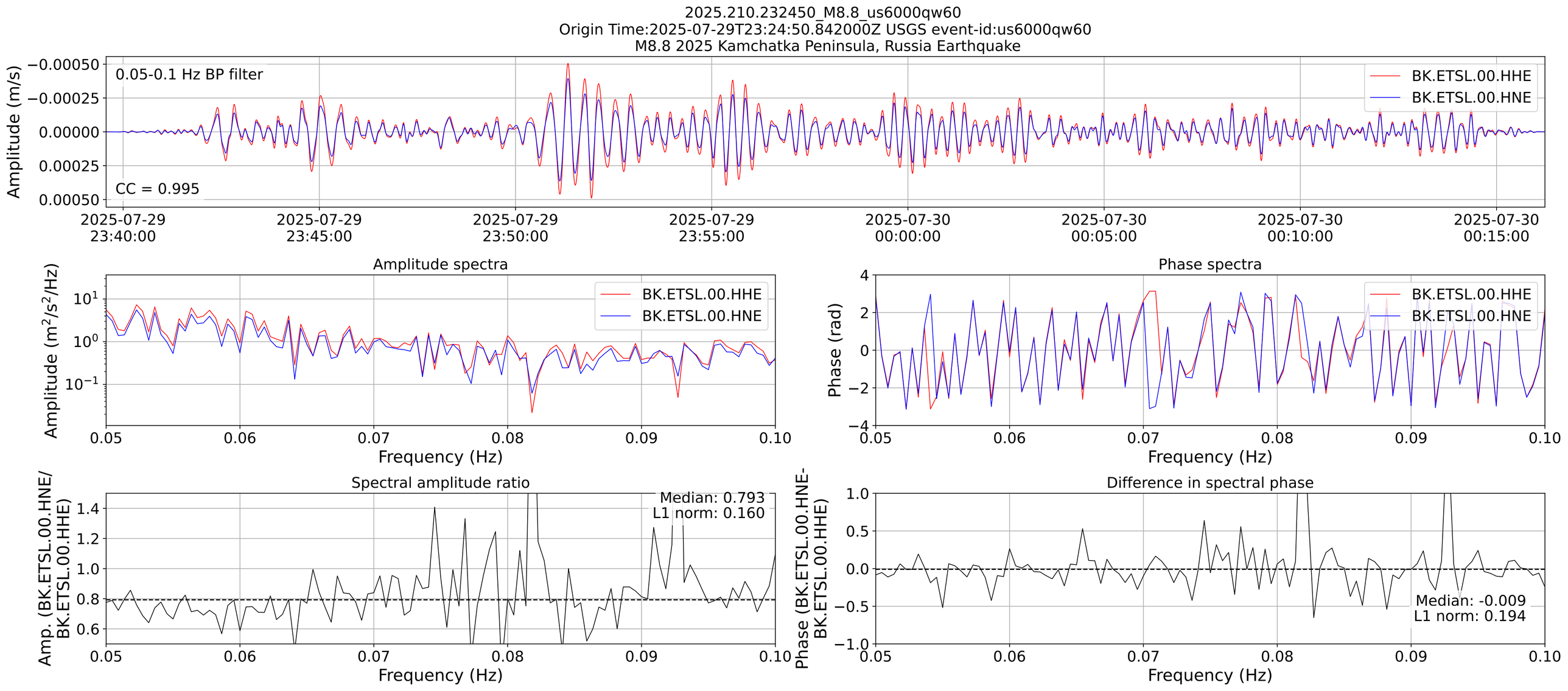

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.DRYC.00.HHN
BK.DRYC.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRYC.00.HNN/ BK.DRYC.00.HHN)
Median: 1.009
L1 norm: 0.034
Difference in spectral phase
Phase (BK.DRYC.00.HNN- BK.DRYC.00.HHN)
Median: 0.004
L1 norm: 0.044

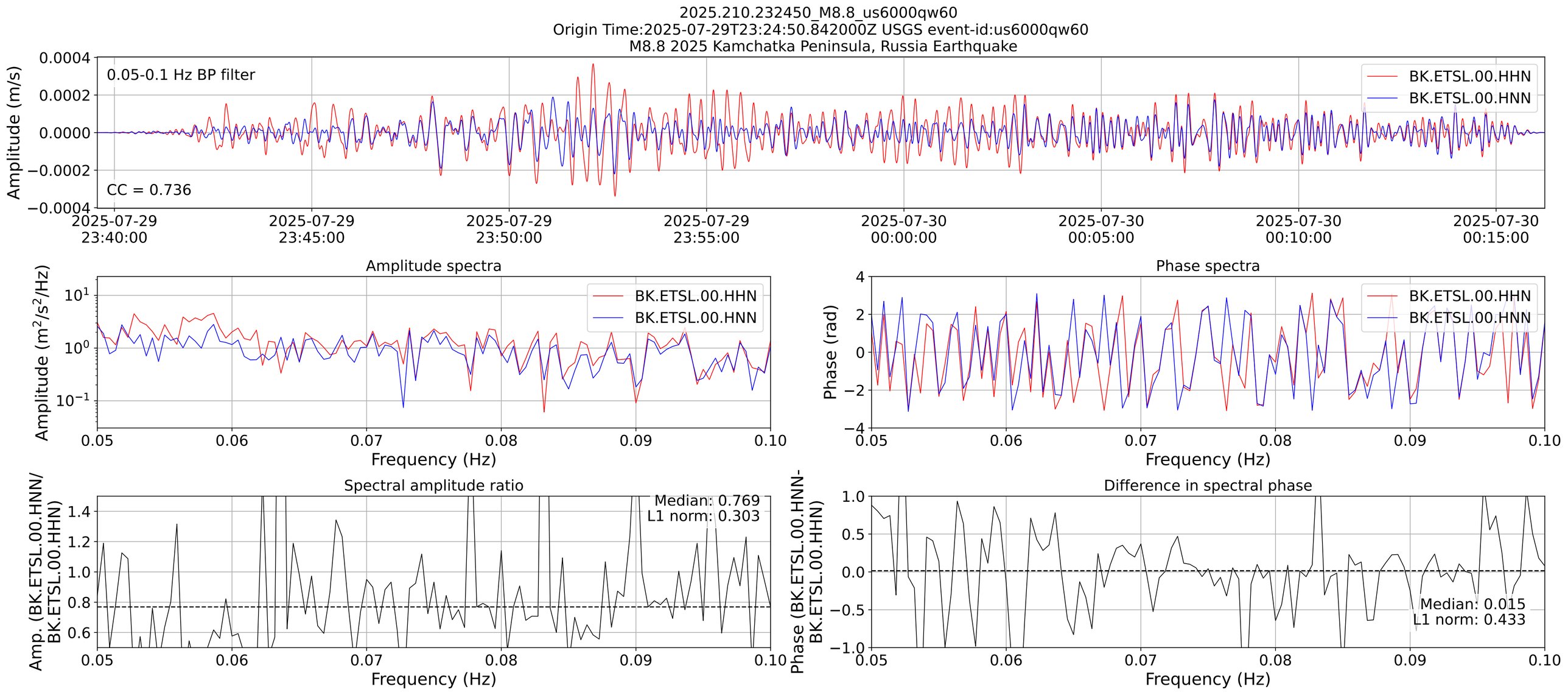

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.DRYC.00.HHZ
BK.DRYC.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRYC.00.HNZ/ BK.DRYC.00.HHZ)
Median: 1.001
L1 norm: 0.026
Difference in spectral phase
Phase (BK.DRYC.00.HNZ- BK.DRYC.00.HHZ)
Median: -0.003
L1 norm: 0.025

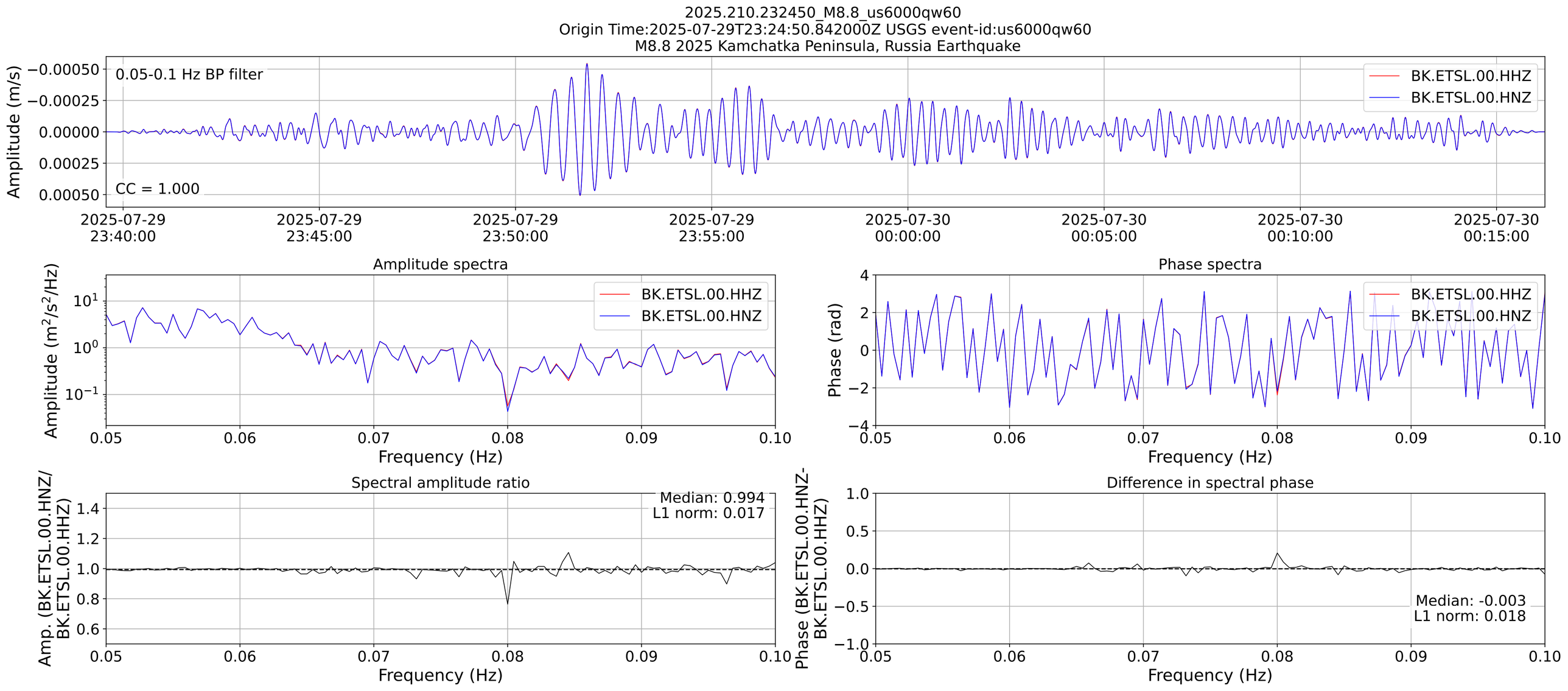

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.EAGL.00.HHE
BK.EAGL.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.EAGL.00.HNE/ BK.EAGL.00.HHE)
Median: 0.995
L1 norm: 0.021
Difference in spectral phase
Phase (BK.EAGL.00.HNE- BK.EAGL.00.HHE)
Median: 0.004
L1 norm: 0.034

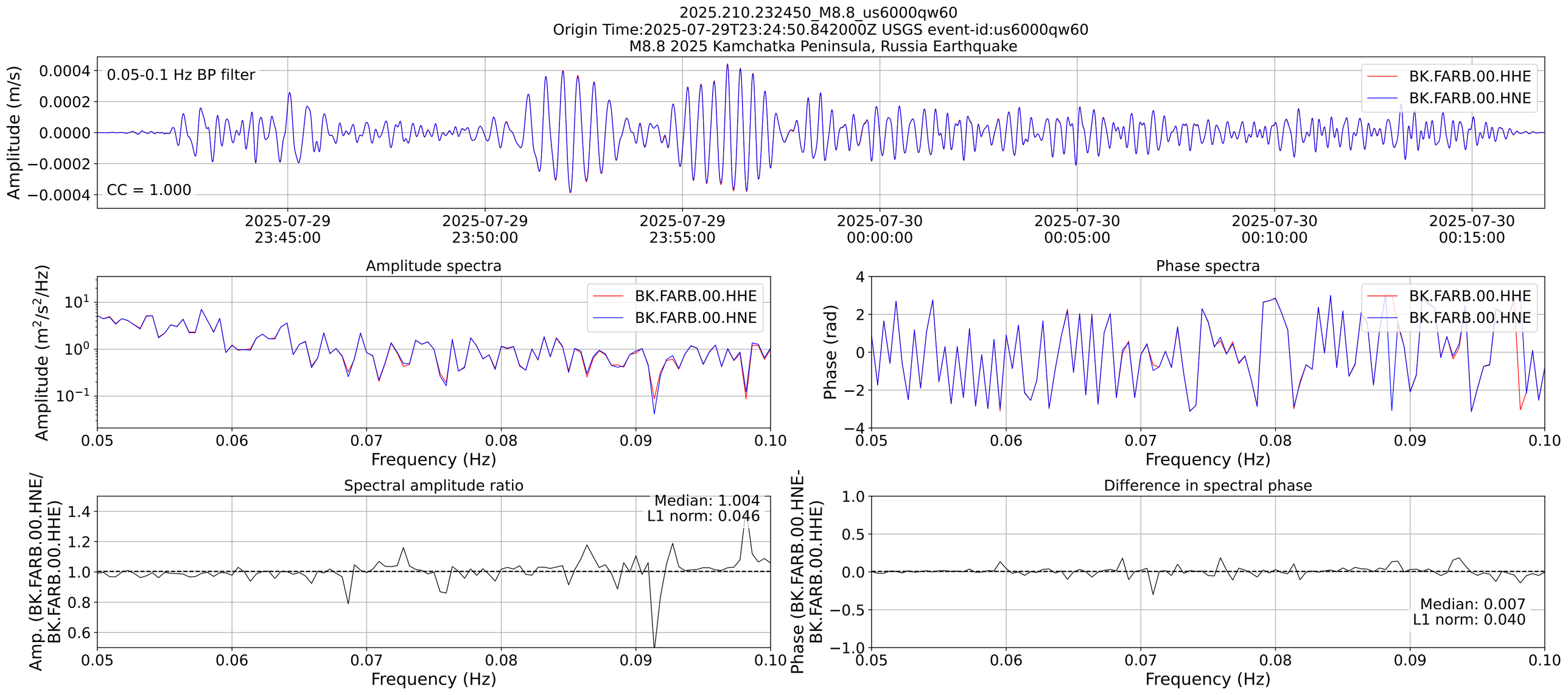

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.EAGL.00.HHN
BK.EAGL.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.EAGL.00.HNN/ BK.EAGL.00.HHN)
Median: 0.985
L1 norm: 0.029
Difference in spectral phase
Phase (BK.EAGL.00.HNN- BK.EAGL.00.HHN)
Median: 0.001
L1 norm: 0.024

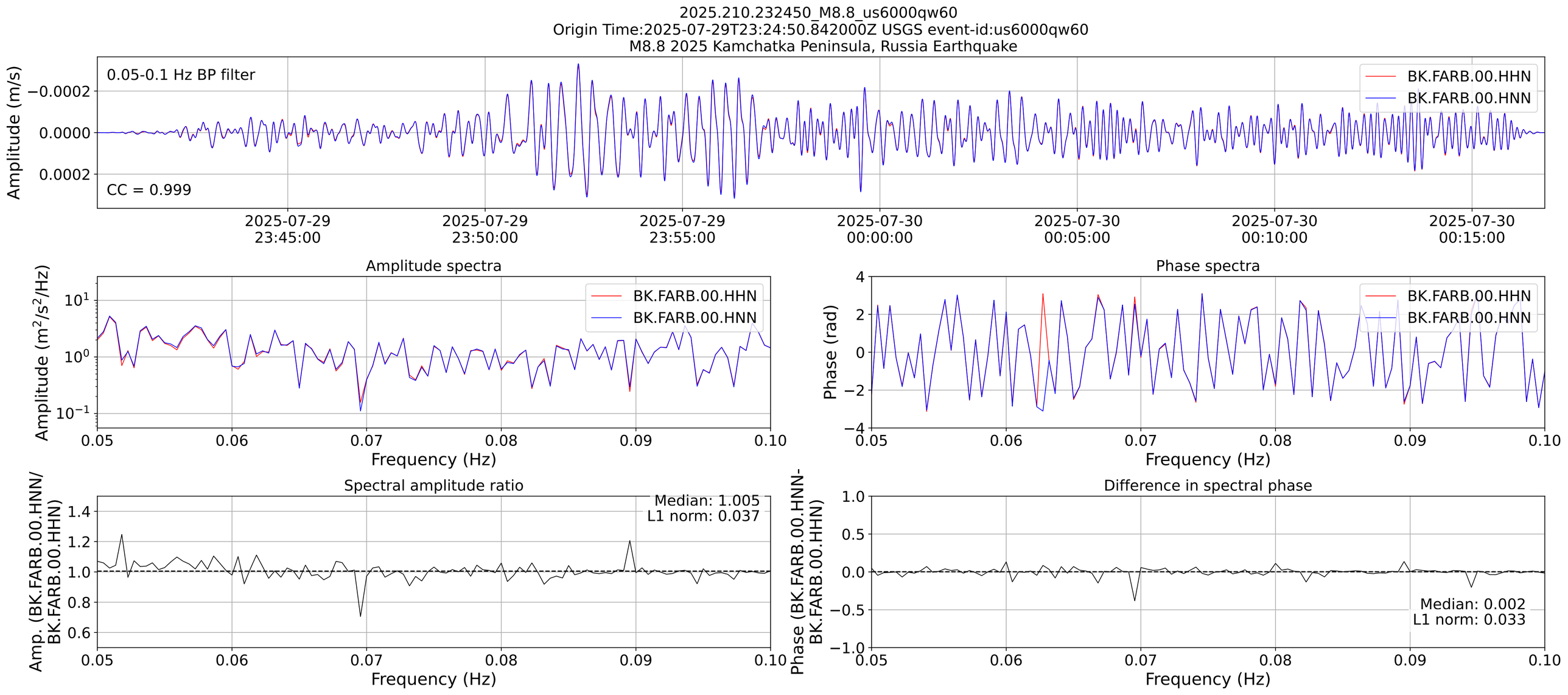

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.EAGL.00.HHZ
BK.EAGL.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.EAGL.00.HNZ/ BK.EAGL.00.HHZ)
Median: 0.979
L1 norm: 0.018
Difference in spectral phase
Phase (BK.EAGL.00.HNZ- BK.EAGL.00.HHZ)
Median: -0.005
L1 norm: 0.017

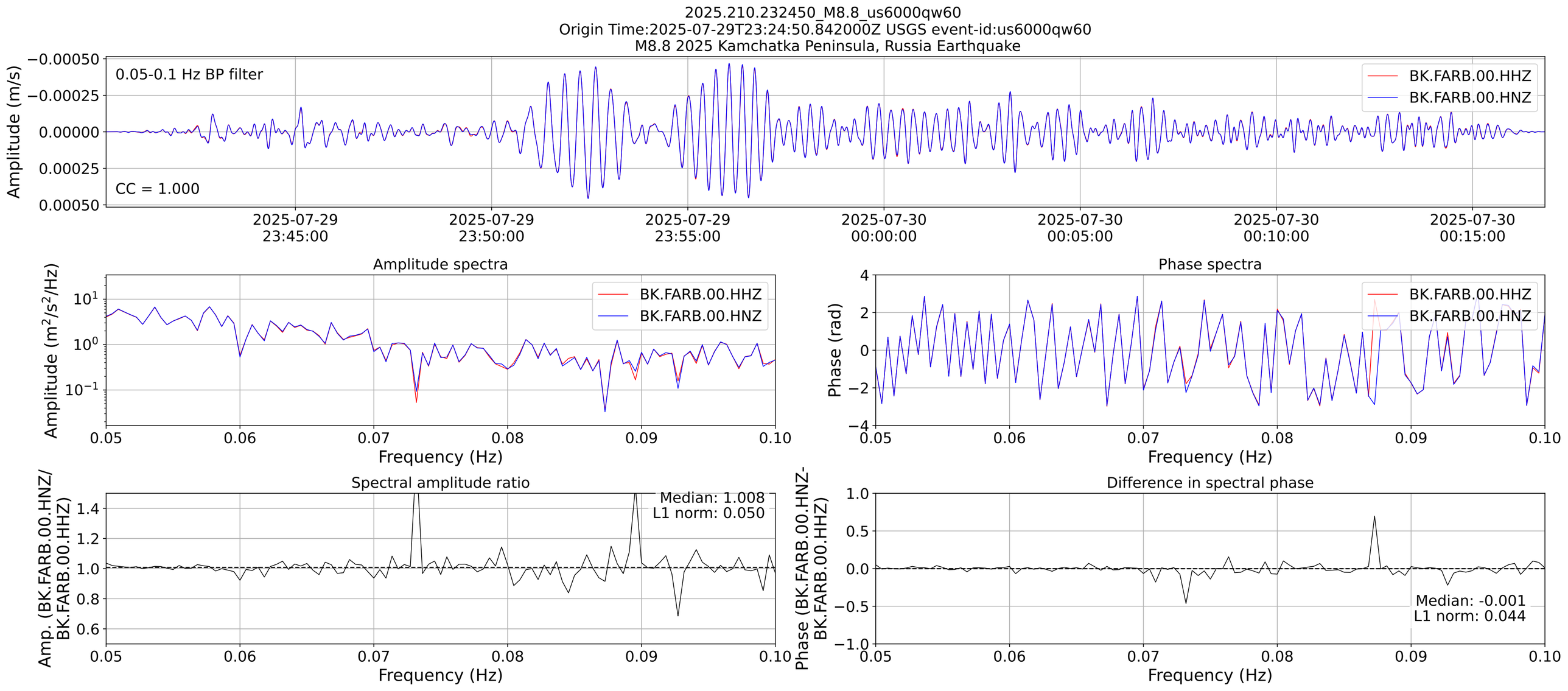

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
BK.ETSL.00.HHE
BK.ETSL.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNE/ BK.ETSL.00.HHE)
Median: 0.793
L1 norm: 0.160
Difference in spectral phase
Phase (BK.ETSL.00.HNE- BK.ETSL.00.HHE)
Median: -0.009
L1 norm: 0.194

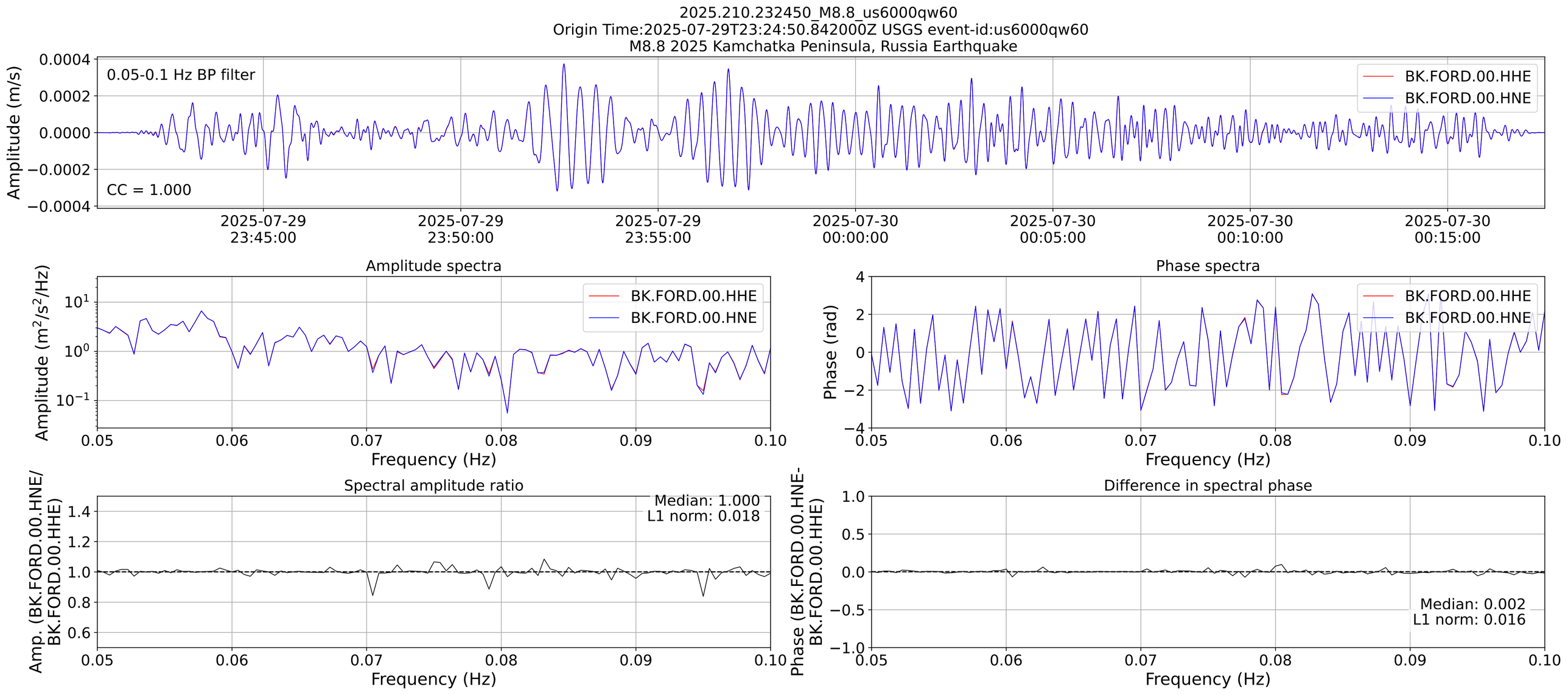

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.736
BK.ETSL.00.HHN
BK.ETSL.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNN/ BK.ETSL.00.HHN)
Median: 0.769
L1 norm: 0.303
Difference in spectral phase
Phase (BK.ETSL.00.HNN-BK.ETSL.00.HHN)
Median: 0.015
L1 norm: 0.433

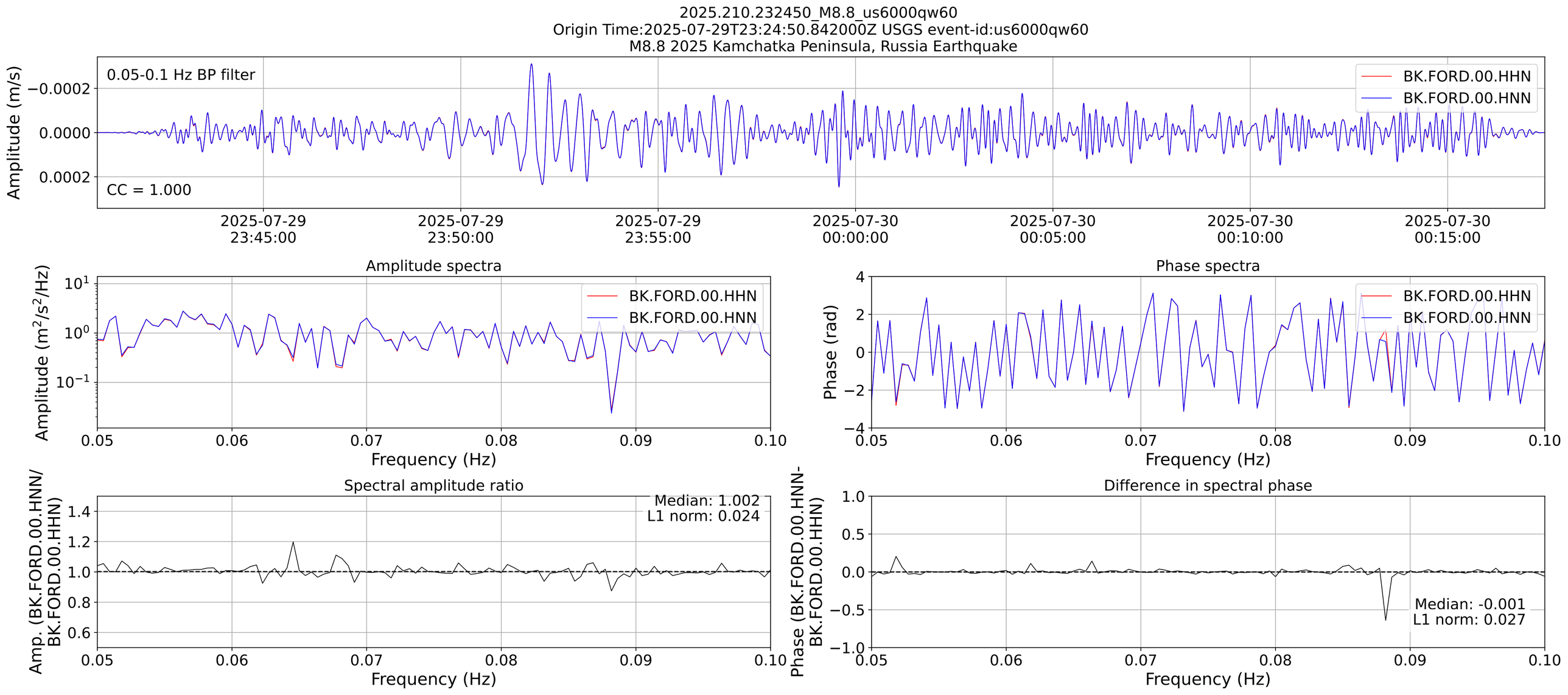

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ETSL.00.HHZ
BK.ETSL.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNZ/ BK.ETSL.00.HHZ)
Median: 0.994
L1 norm: 0.017
Difference in spectral phase
Phase (BK.ETSL.00.HNZ- BK.ETSL.00.HHZ)
Median: -0.003
L1 norm: 0.018

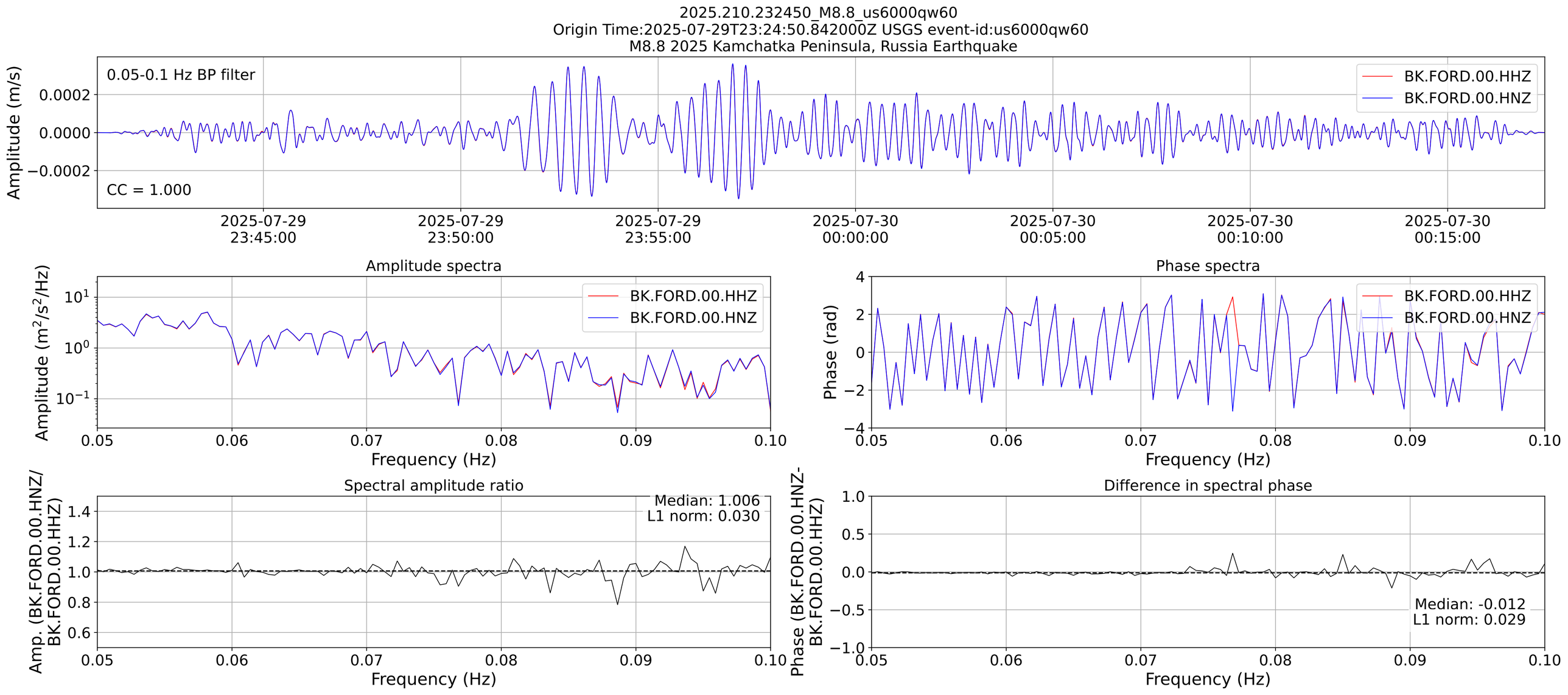

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.FARB.00.HHE
BK.FARB.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FARB.00.HNE/ BK.FARB.00.HHE)
Median: 1.004
L1 norm: 0.046
Difference in spectral phase
Phase (BK.FARB.00.HNE- BK.FARB.00.HHE)
Median: 0.007
L1 norm: 0.040

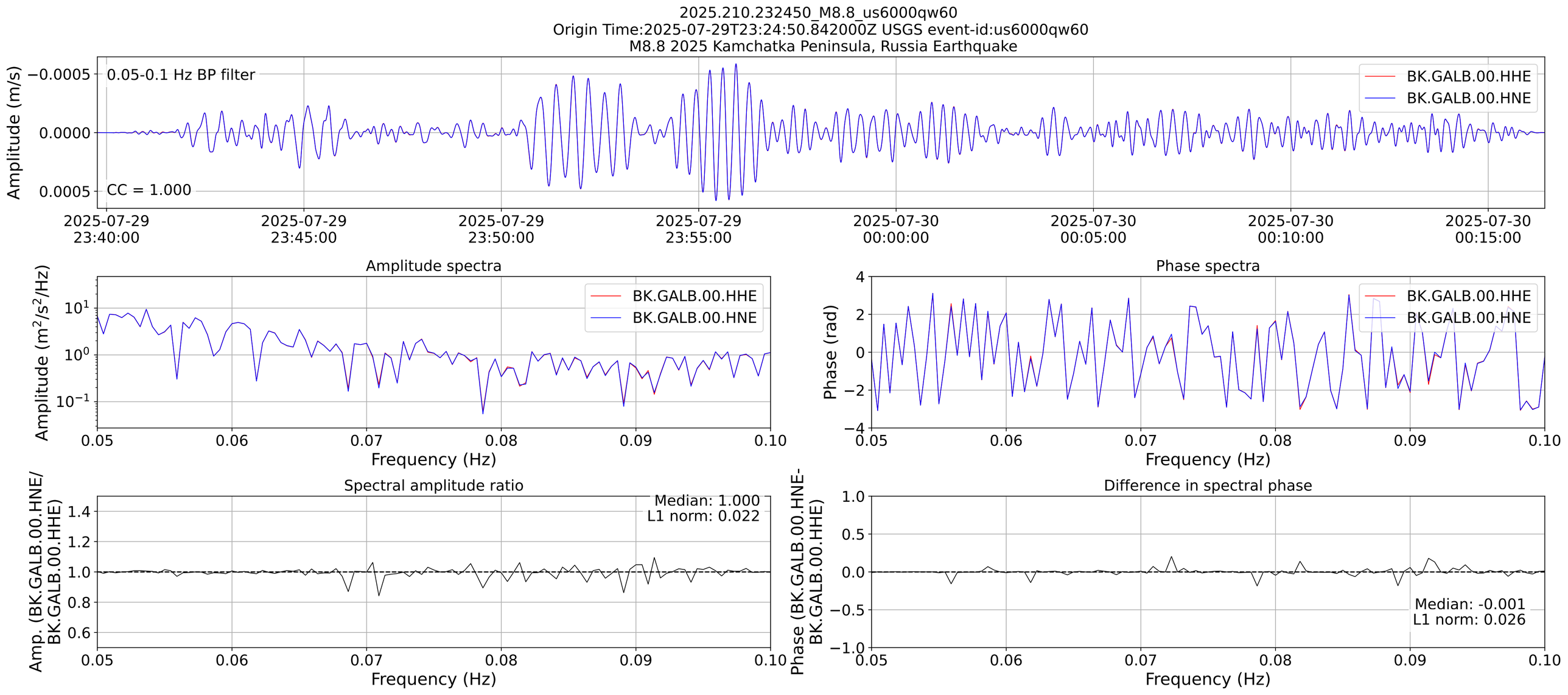

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.FARB.00.HHN
BK.FARB.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FARB.00.HNN/ BK.FARB.00.HHN)
Median: 1.005
L1 norm: 0.037
Difference in spectral phase
Phase (BK.FARB.00.HNN- BK.FARB.00.HHN)
Median: 0.002
L1 norm: 0.033

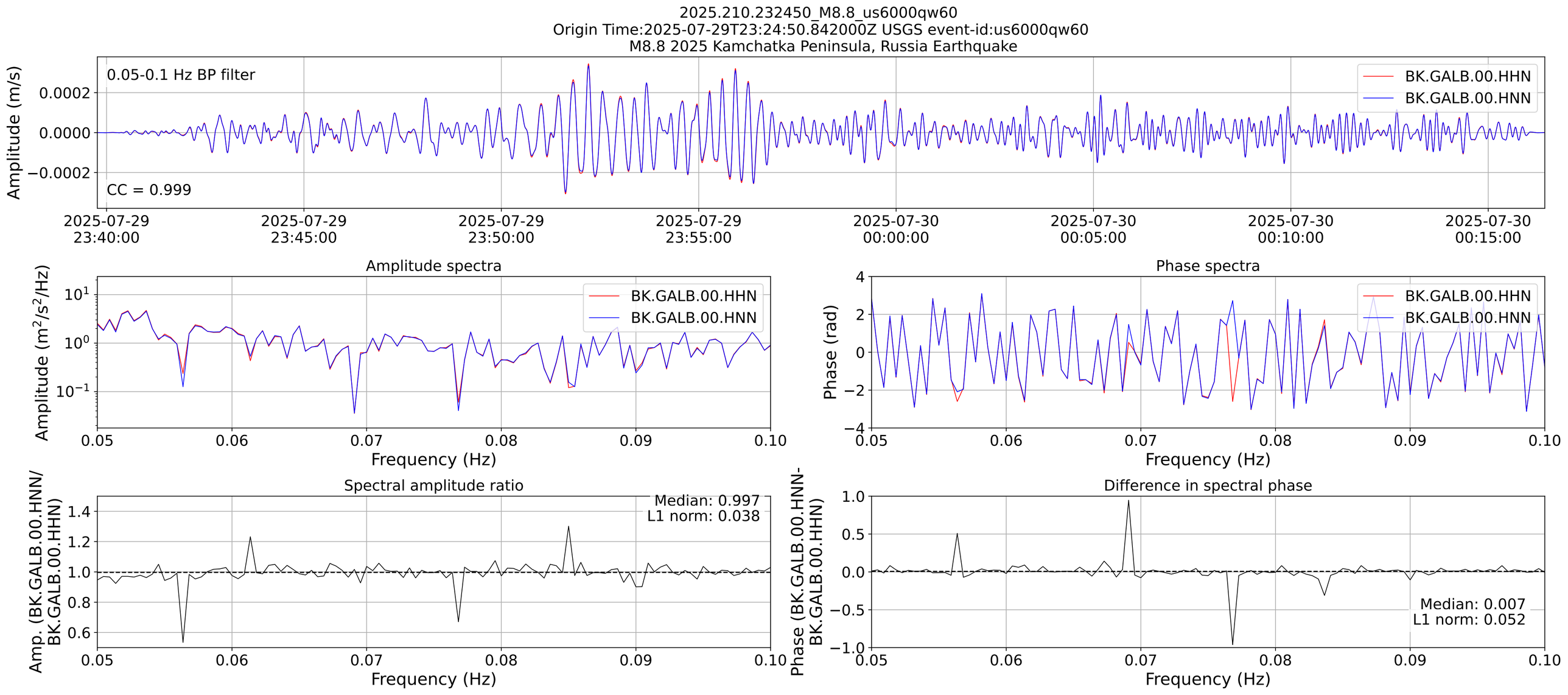

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.FARB.00.HHZ
BK.FARB.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FARB.00.HNZ/ BK.FARB.00.HHZ)
Median: 1.008
L1 norm: 0.050
Difference in spectral phase
Phase (BK.FARB.00.HNZ- BK.FARB.00.HHZ)
Median: -0.001
L1 norm: 0.044

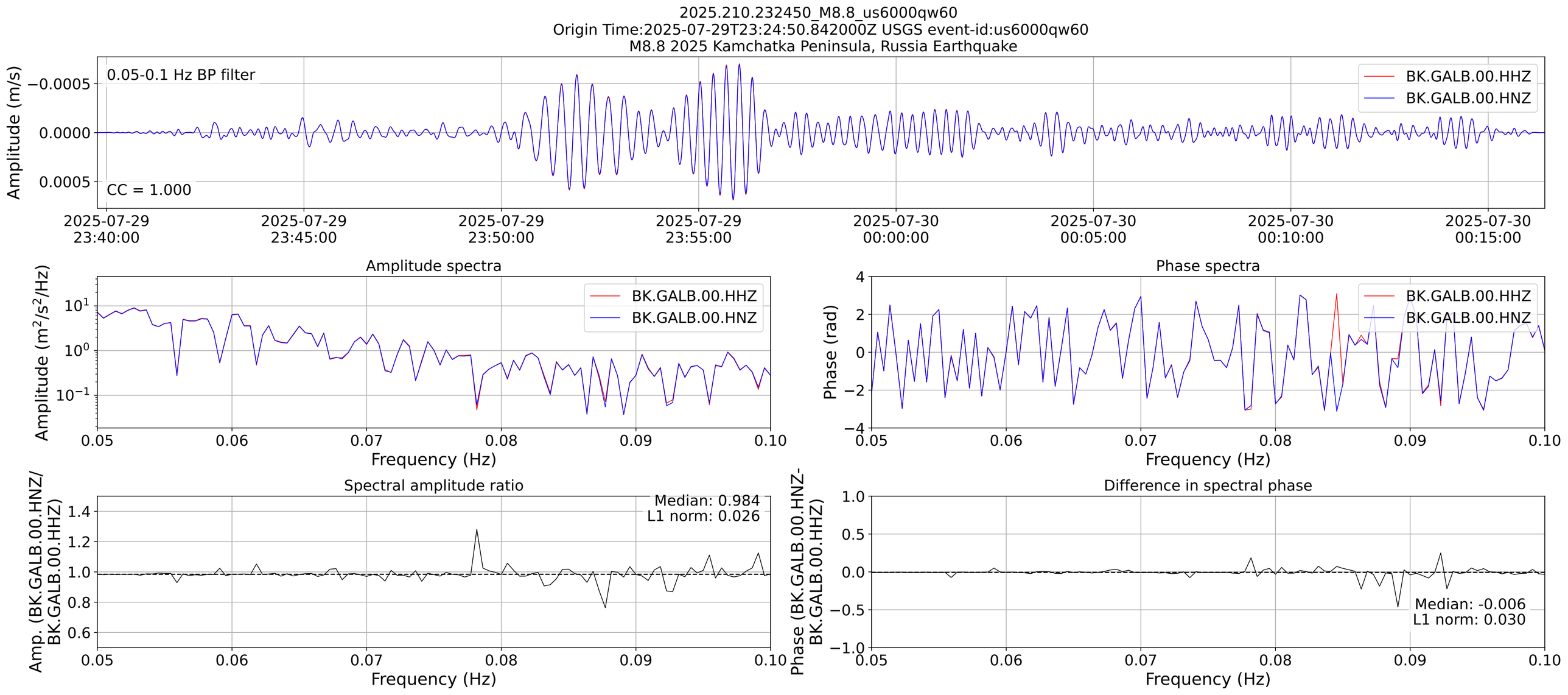

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.FORD.00.HHE
BK.FORD.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNE/ BK.FORD.00.HHE)
Median: 1.000
L1 norm: 0.018
Difference in spectral phase
Phase (BK.FORD.00.HNE- BK.FORD.00.HHE)
Median: 0.002
L1 norm: 0.016

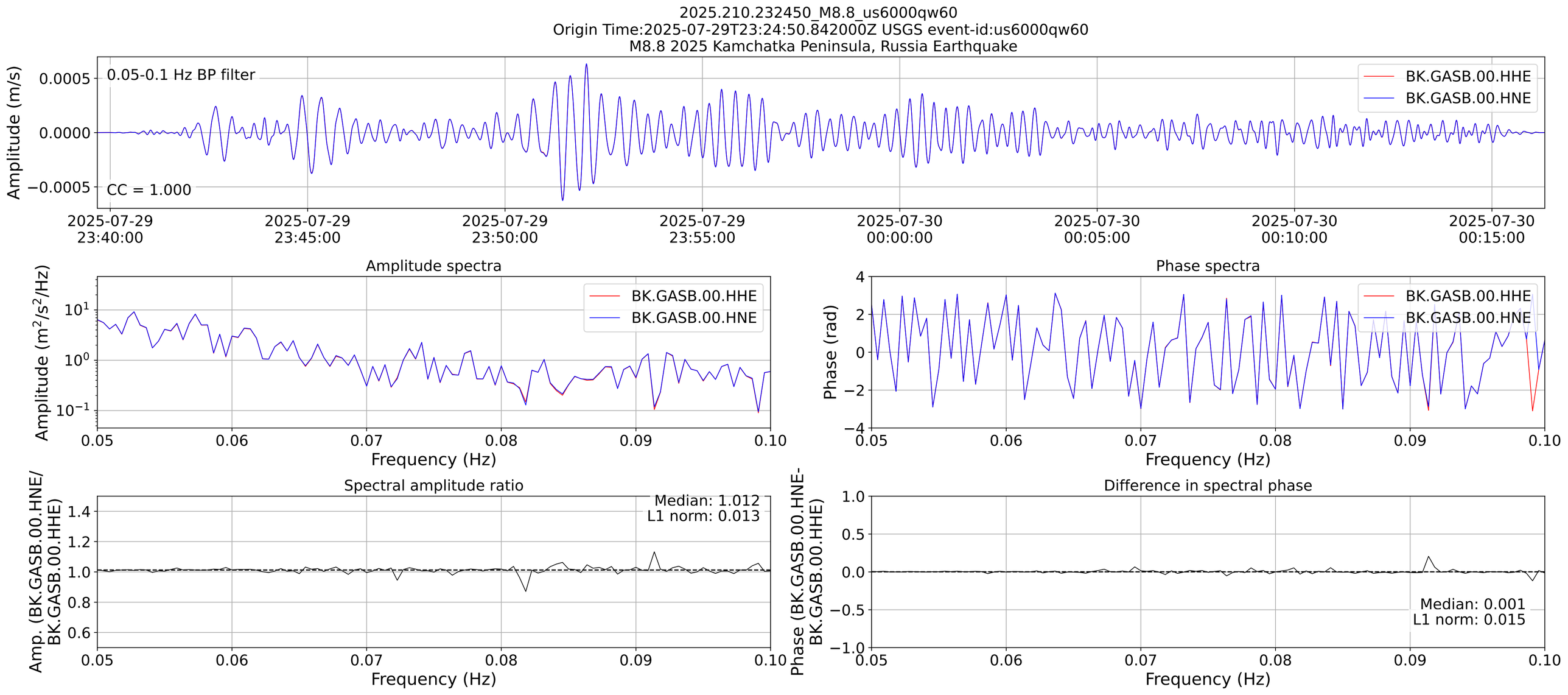

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.FORD.00.HHN
BK.FORD.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNN/ BK.FORD.00.HHN)
Median: 1.002
L1 norm: 0.024
Difference in spectral phase
Phase (BK.FORD.00.HNN- BK.FORD.00.HHN)
Median: -0.001
L1 norm: 0.027

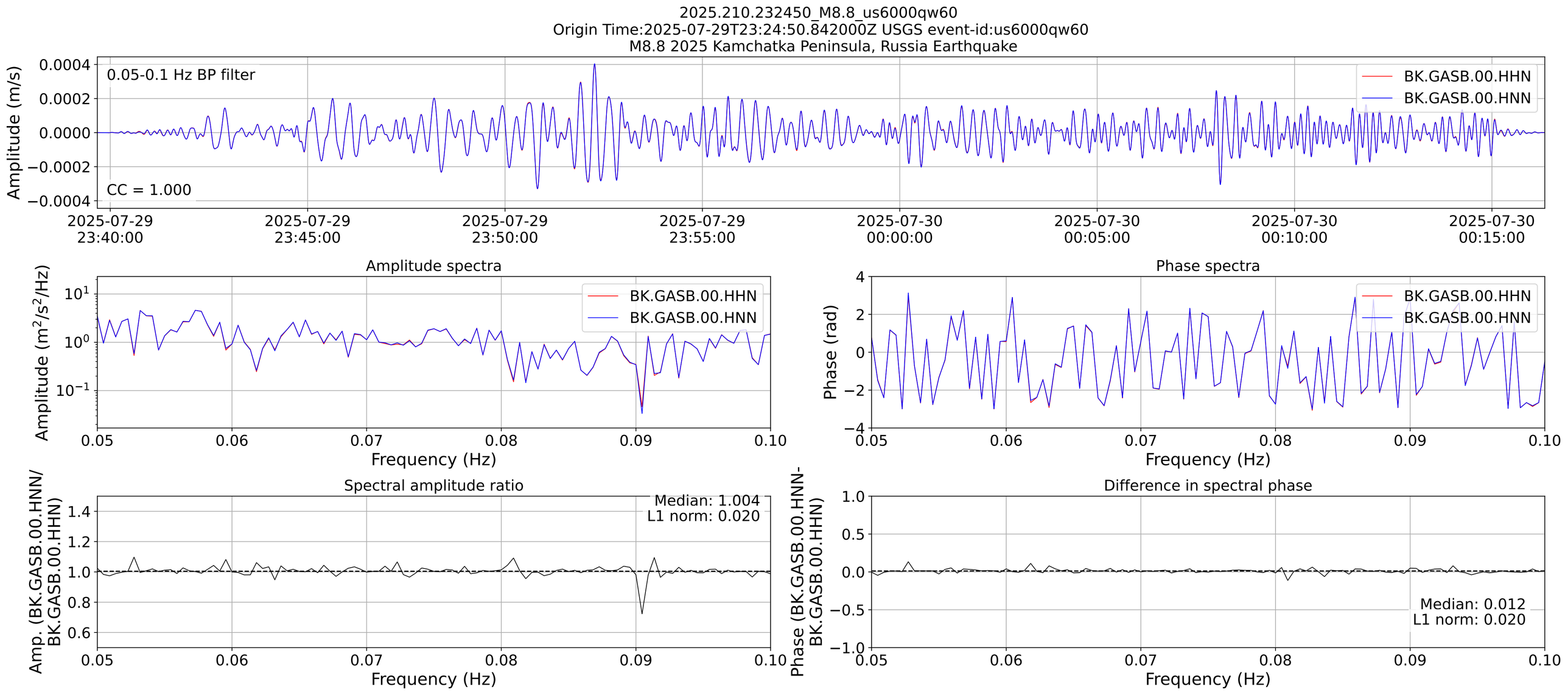

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.FORD.00.HHZ
BK.FORD.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNZ/ BK.FORD.00.HHZ)
Median: 1.006
L1 norm: 0.030
Difference in spectral phase
Phase (BK.FORD.00.HNZ- BK.FORD.00.HHZ)
Median: -0.012
L1 norm: 0.029

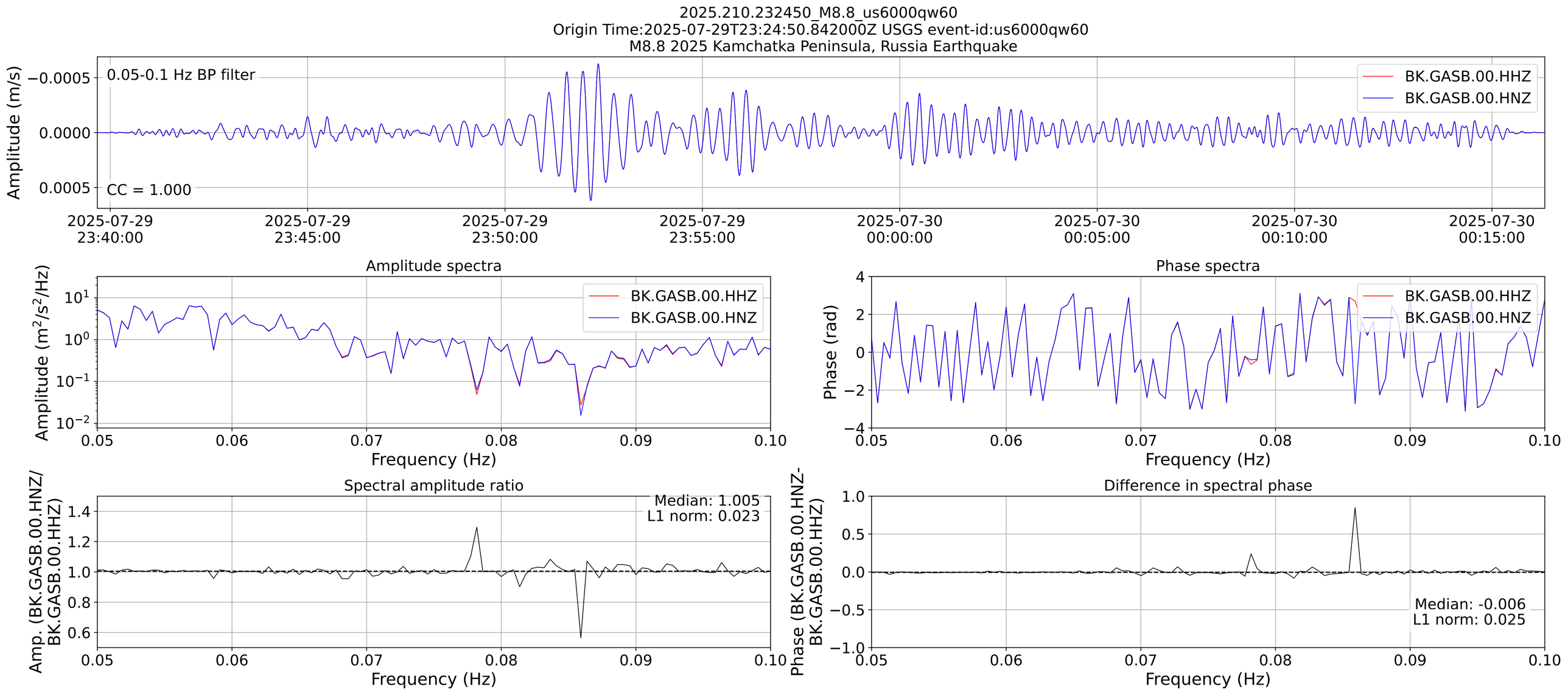

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GALB.00.HHE
BK.GALB.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNE/ BK.GALB.00.HHE)
Median: 1.000
L1 norm: 0.022
Difference in spectral phase
Phase (BK.GALB.00.HNE- BK.GALB.00.HHE)
Median: -0.001
L1 norm: 0.026

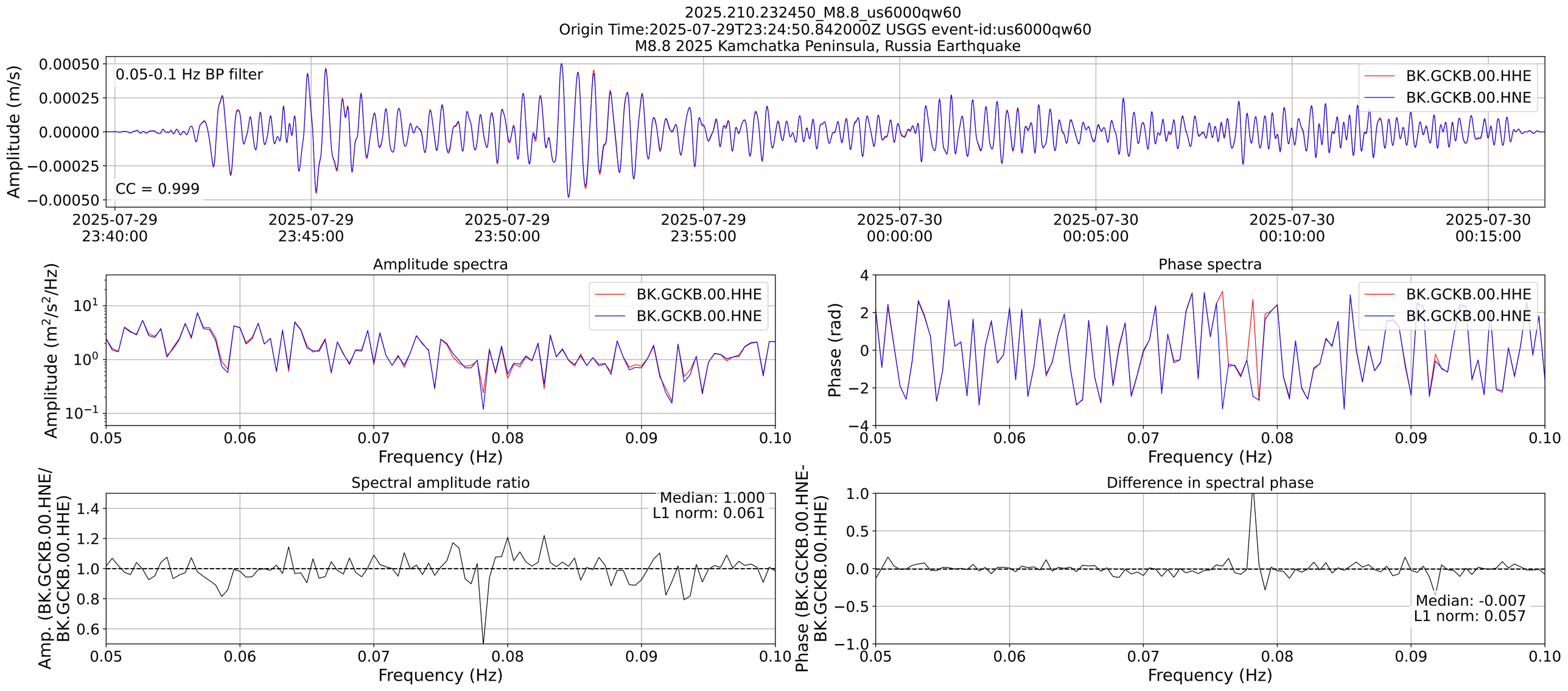

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.GALB.00.HHN
BK.GALB.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNN/ BK.GALB.00.HHN)
Median: 0.997
L1 norm: 0.038
Difference in spectral phase
Phase (BK.GALB.00.HNN- BK.GALB.00.HHN)
Median: 0.007
L1 norm: 0.052

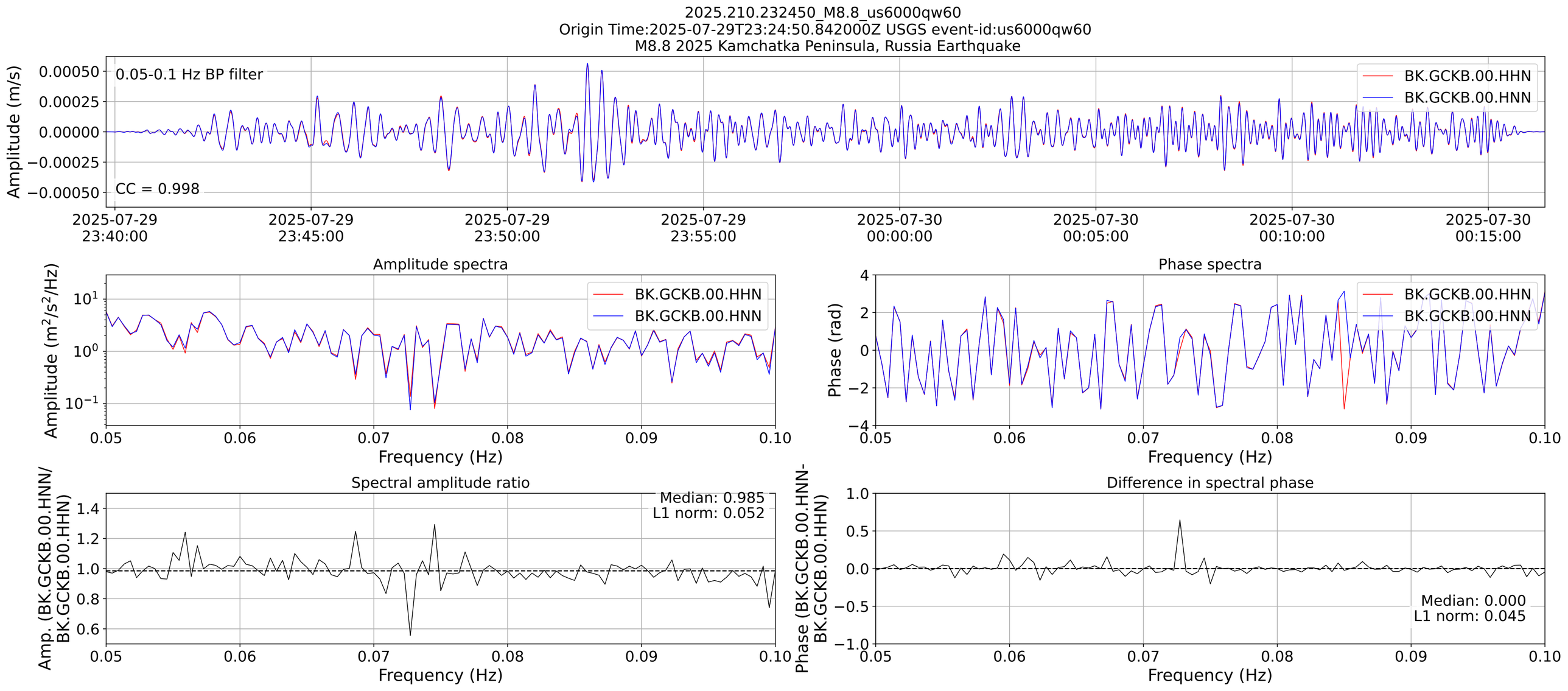

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GALB.00.HHZ
BK.GALB.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNZ/ BK.GALB.00.HHZ)
Median: 0.984
L1 norm: 0.026
Difference in spectral phase
Phase (BK.GALB.00.HNZ- BK.GALB.00.HHZ)
Median: -0.006
L1 norm: 0.030

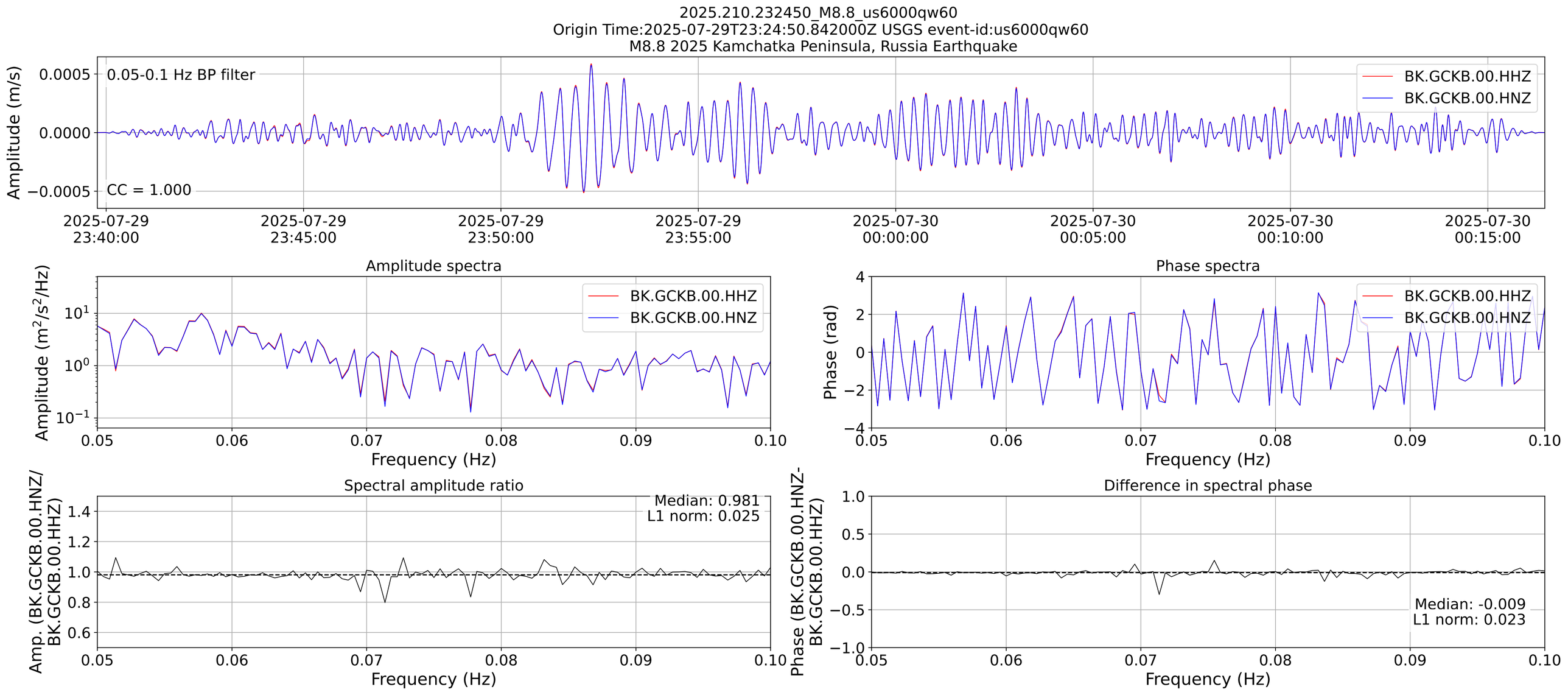

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GASB.00.HHE
BK.GASB.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GASB.00.HNE/ BK.GASB.00.HHE)
Median: 1.012
L1 norm: 0.013
Difference in spectral phase
Phase (BK.GASB.00.HNE- BK.GASB.00.HHE)
Median: 0.001
L1 norm: 0.015

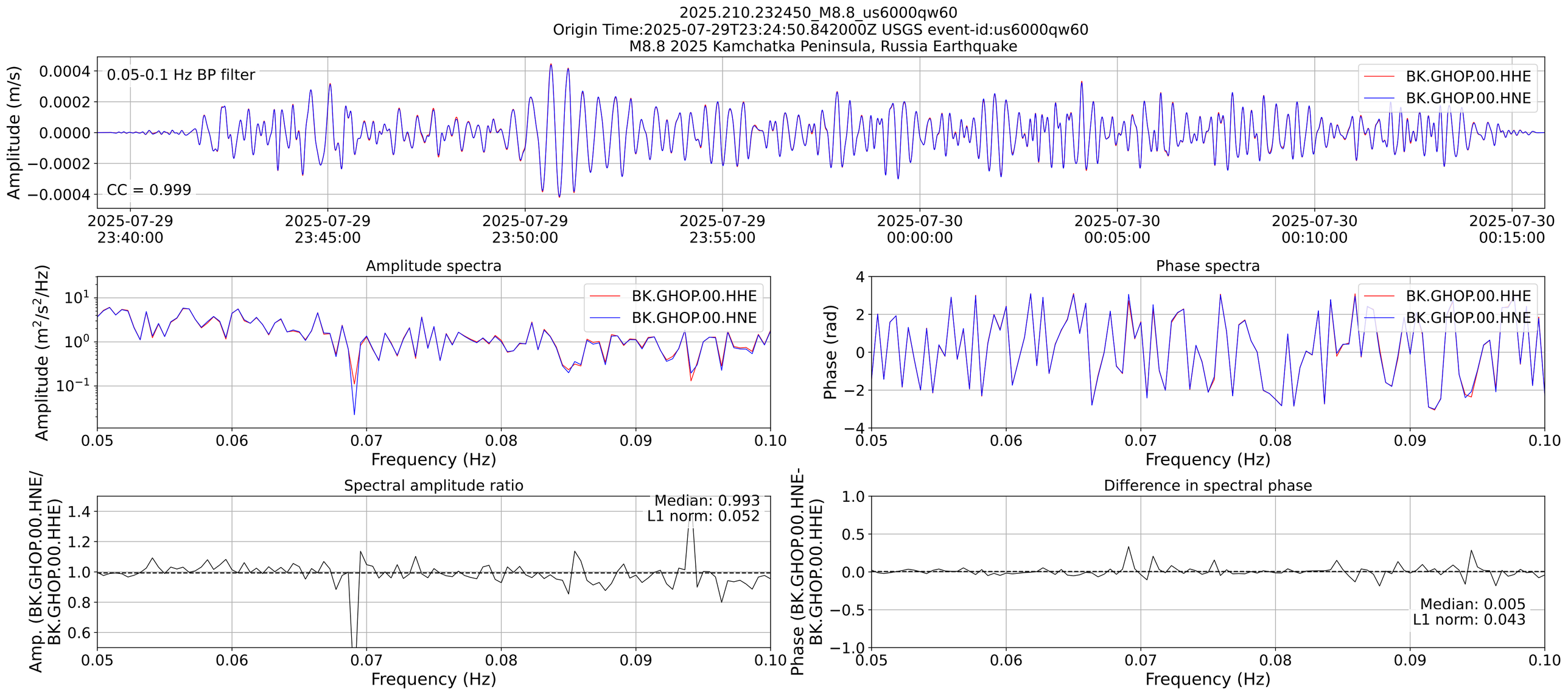

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GASB.00.HHN
BK.GASB.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GASB.00.HNN/ BK.GASB.00.HHN)
Median: 1.004
L1 norm: 0.020
Difference in spectral phase
Phase (BK.GASB.00.HNN- BK.GASB.00.HHN)
Median: 0.012
L1 norm: 0.020

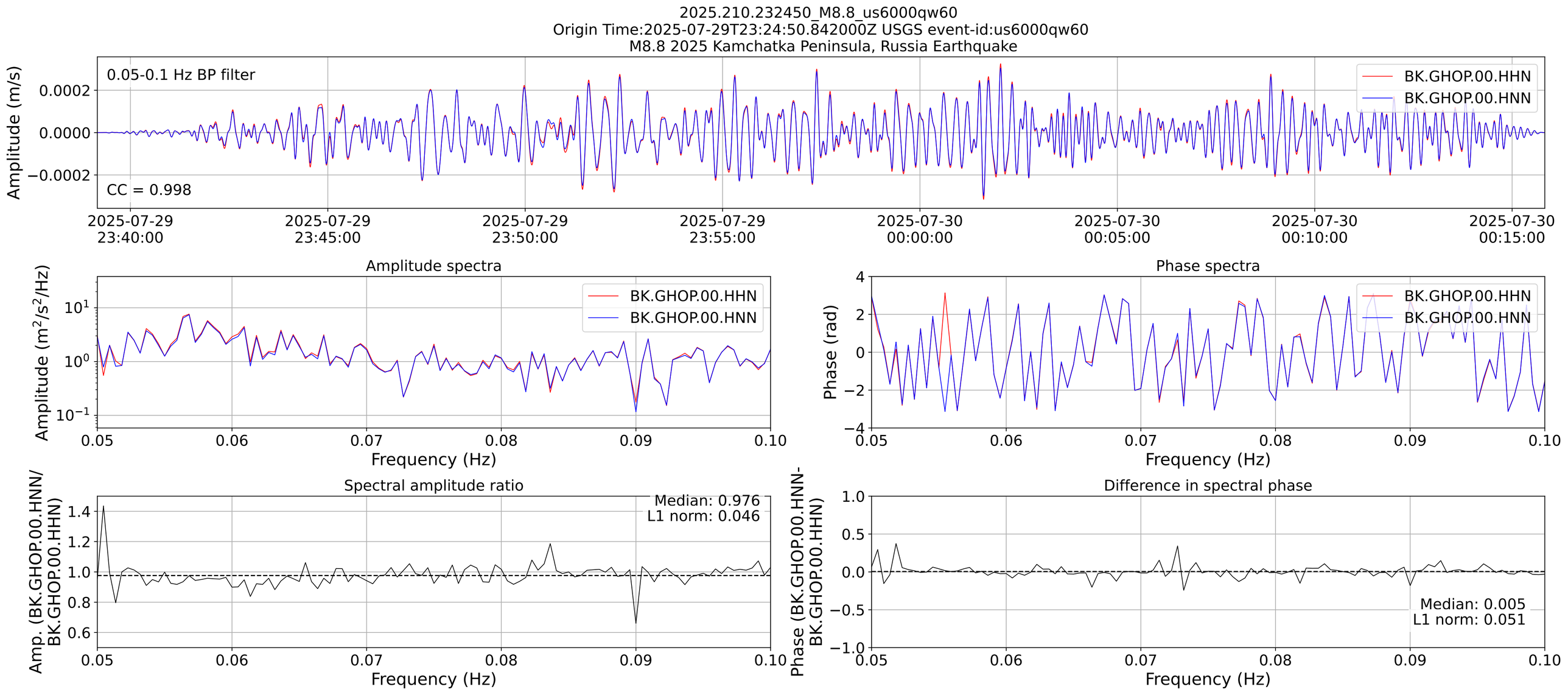

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GASB.00.HHZ
BK.GASB.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GASB.00.HNZ/ BK.GASB.00.HHZ)
Median: 1.005
L1 norm: 0.023
Difference in spectral phase
Phase (BK.GASB.00.HNZ- BK.GASB.00.HHZ)
Median: -0.006
L1 norm: 0.025

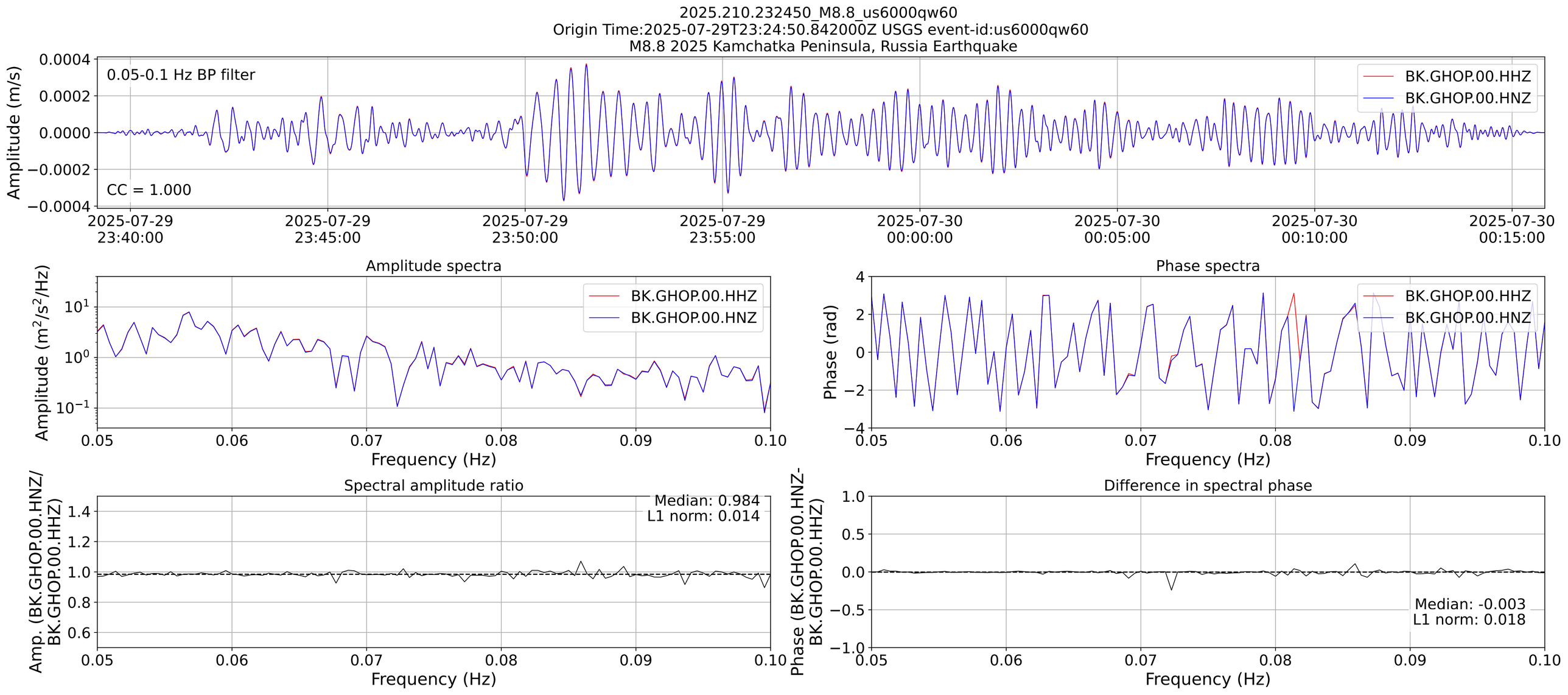

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.GCKB.00.HHE
BK.GCKB.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNE/ BK.GCKB.00.HHE)
Median: 1.000
L1 norm: 0.061
Difference in spectral phase
Phase (BK.GCKB.00.HNE- BK.GCKB.00.HHE)
Median: -0.007
L1 norm: 0.057

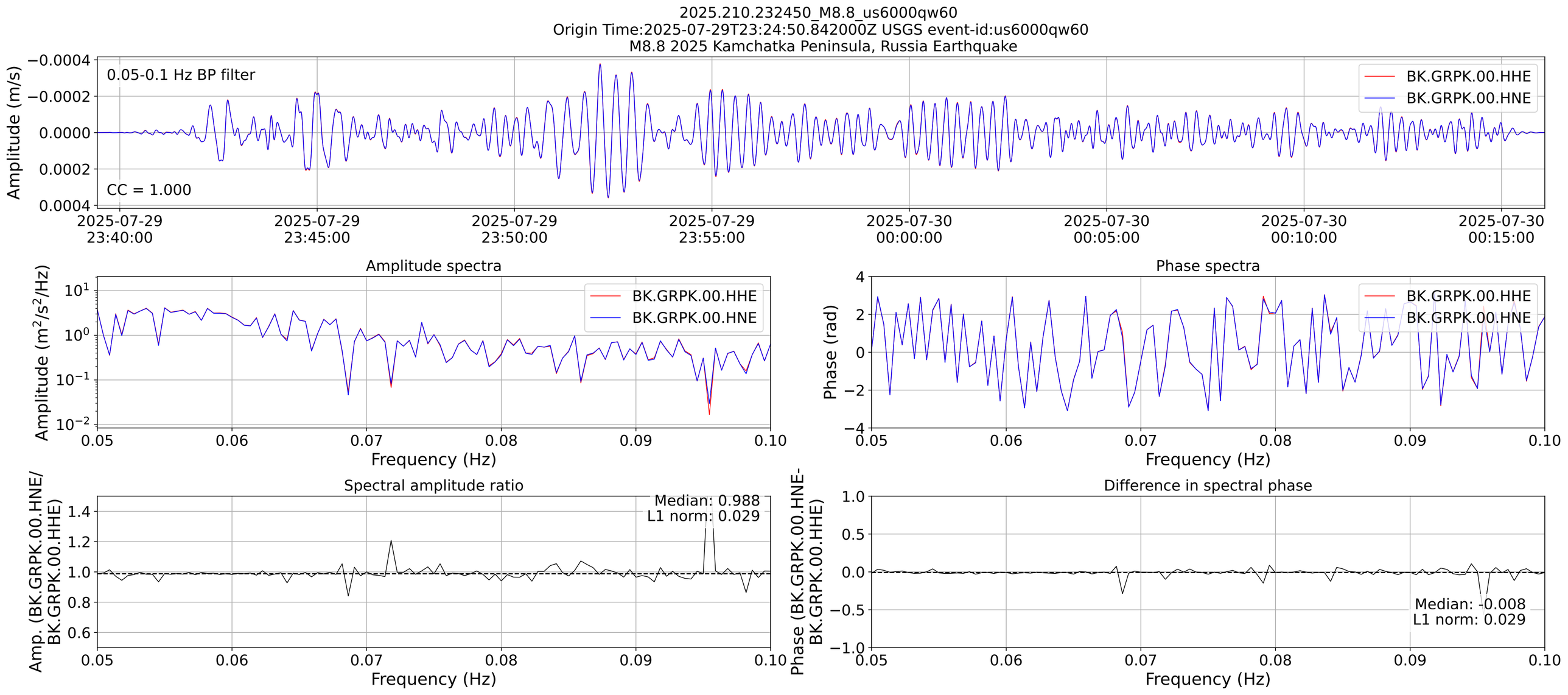

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.GCKB.00.HHN
BK.GCKB.00.HNN
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNN/ BK.GCKB.00.HHN)
Median: 0.985
L1 norm: 0.052
Difference in spectral phase
Phase (BK.GCKB.00.HNN- BK.GCKB.00.HHN)
Median: 0.000
L1 norm: 0.045

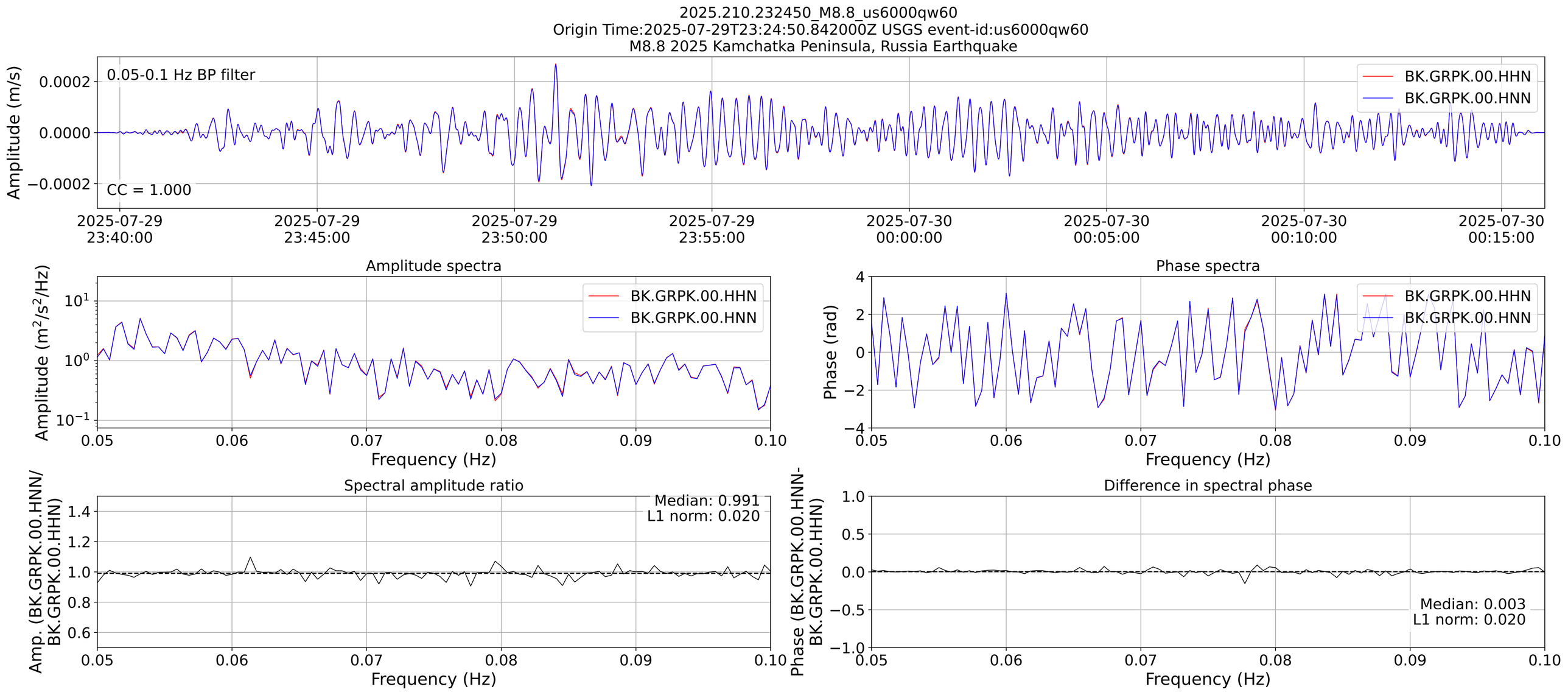

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GCKB.00.HHZ
BK.GCKB.00.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNZ/ BK.GCKB.00.HHZ)
Median: 0.981
L1 norm: 0.025
Difference in spectral phase
Phase (BK.GCKB.00.HNZ- BK.GCKB.00.HHZ)
Median: -0.009
L1 norm: 0.023

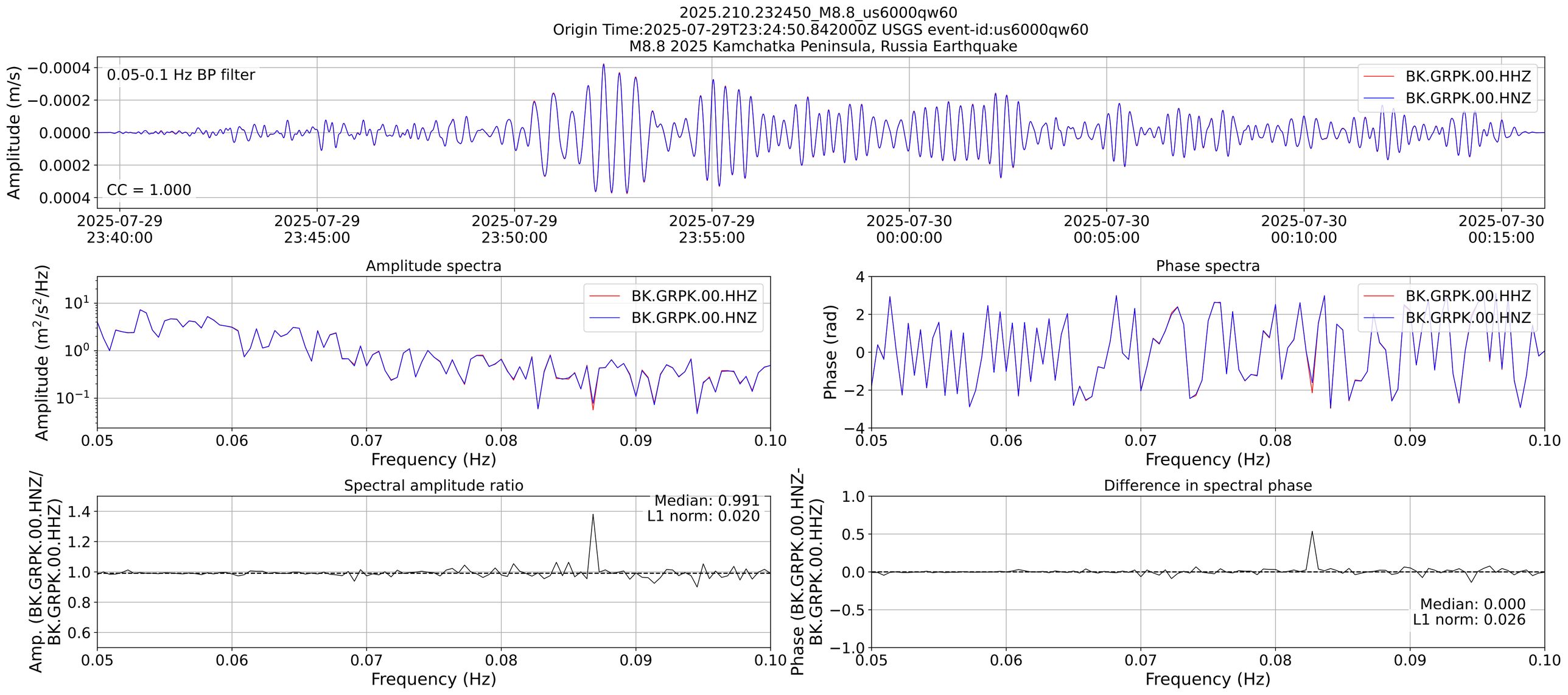

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.GHOP.00.HHE
BK.GHOP.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNE/ BK.GHOP.00.HHE)
Median: 0.993
L1 norm: 0.052
Difference in spectral phase
Phase (BK.GHOP.00.HNE- BK.GHOP.00.HHE)
Median: 0.005
L1 norm: 0.043

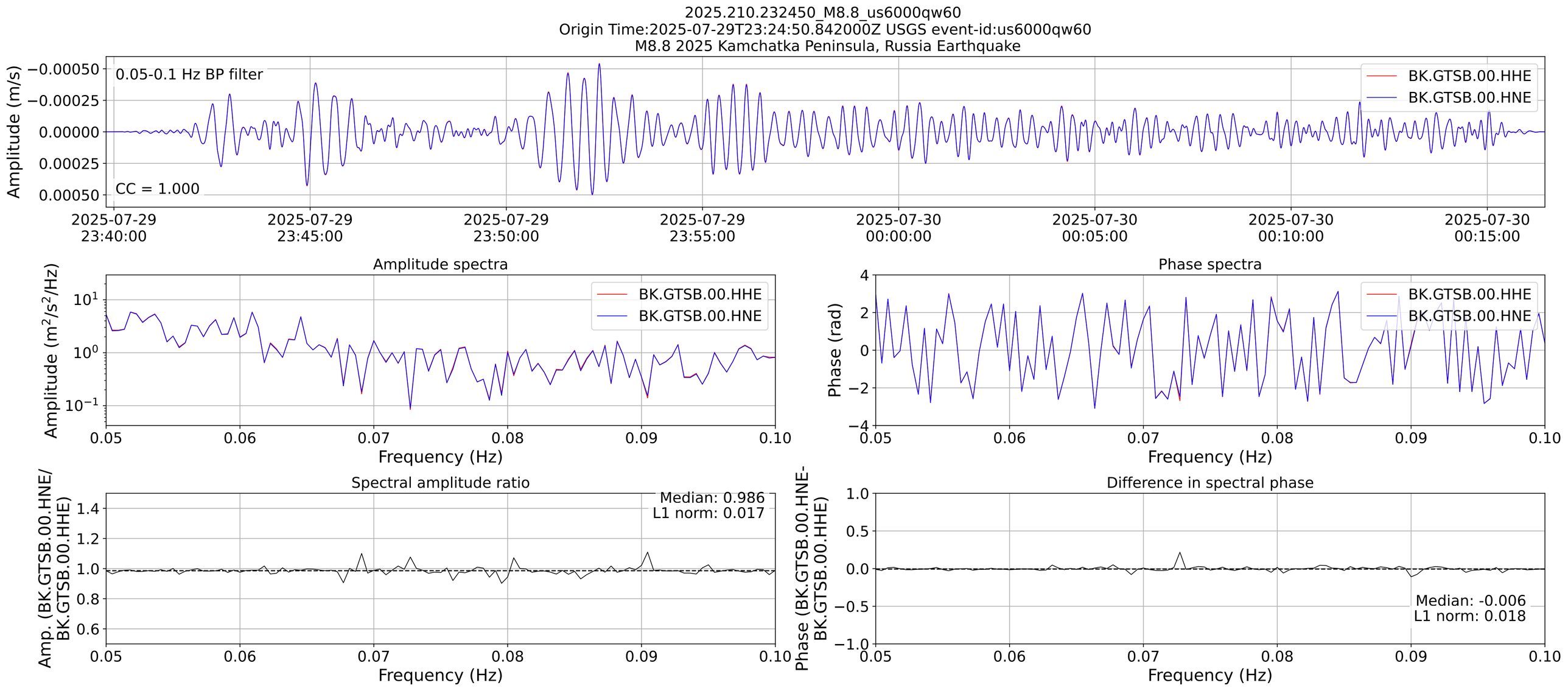

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.GHOP.00.HHN
BK.GHOP.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s⁴/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNN/ BK.GHOP.00.HHN)
Median: 0.976
L1 norm: 0.046
Difference in spectral phase
Phase (BK.GHOP.00.HNN- BK.GHOP.00.HHN)
Median: 0.005
L1 norm: 0.051

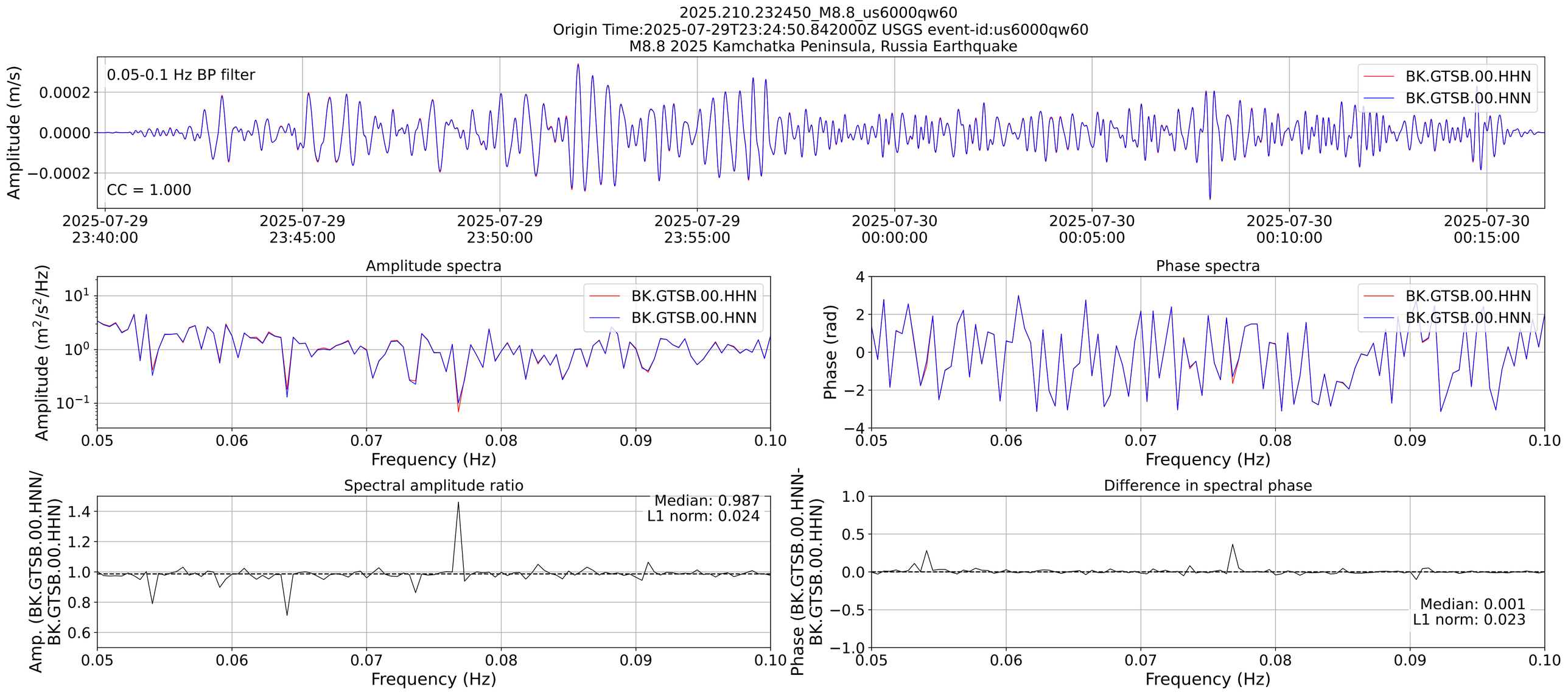

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GHOP.00.HHZ
BK.GHOP.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNZ/ BK.GHOP.00.HHZ)
Median: 0.984
L1 norm: 0.014
Difference in spectral phase
Phase (BK.GHOP.00.HNZ- BK.GHOP.00.HHZ)
Median: -0.003
L1 norm: 0.018

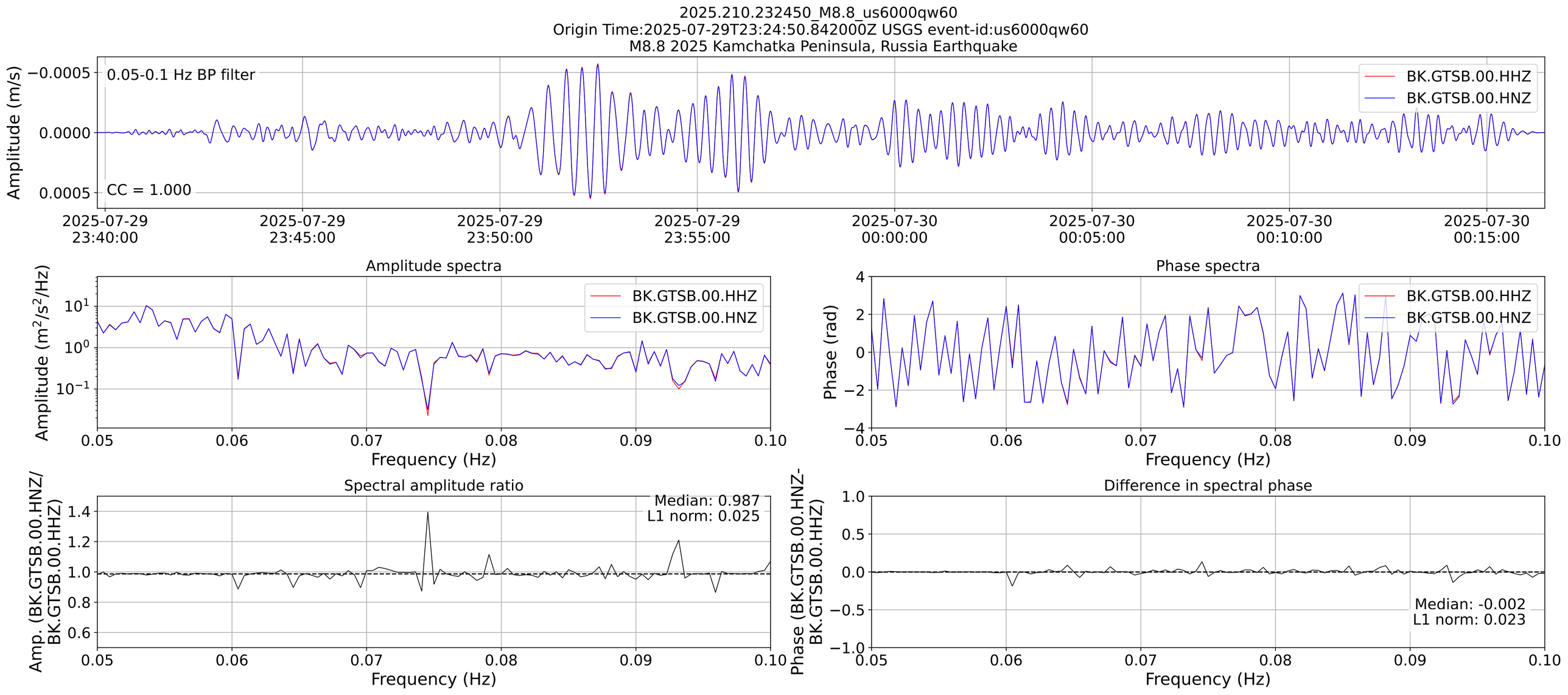

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GRPK.00.HHE
BK.GRPK.00.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNE/ BK.GRPK.00.HHE)
Median: 0.988
L1 norm: 0.029
Difference in spectral phase
Phase (BK.GRPK.00.HNE- BK.GRPK.00.HHE)
Median: -0.008
L1 norm: 0.029

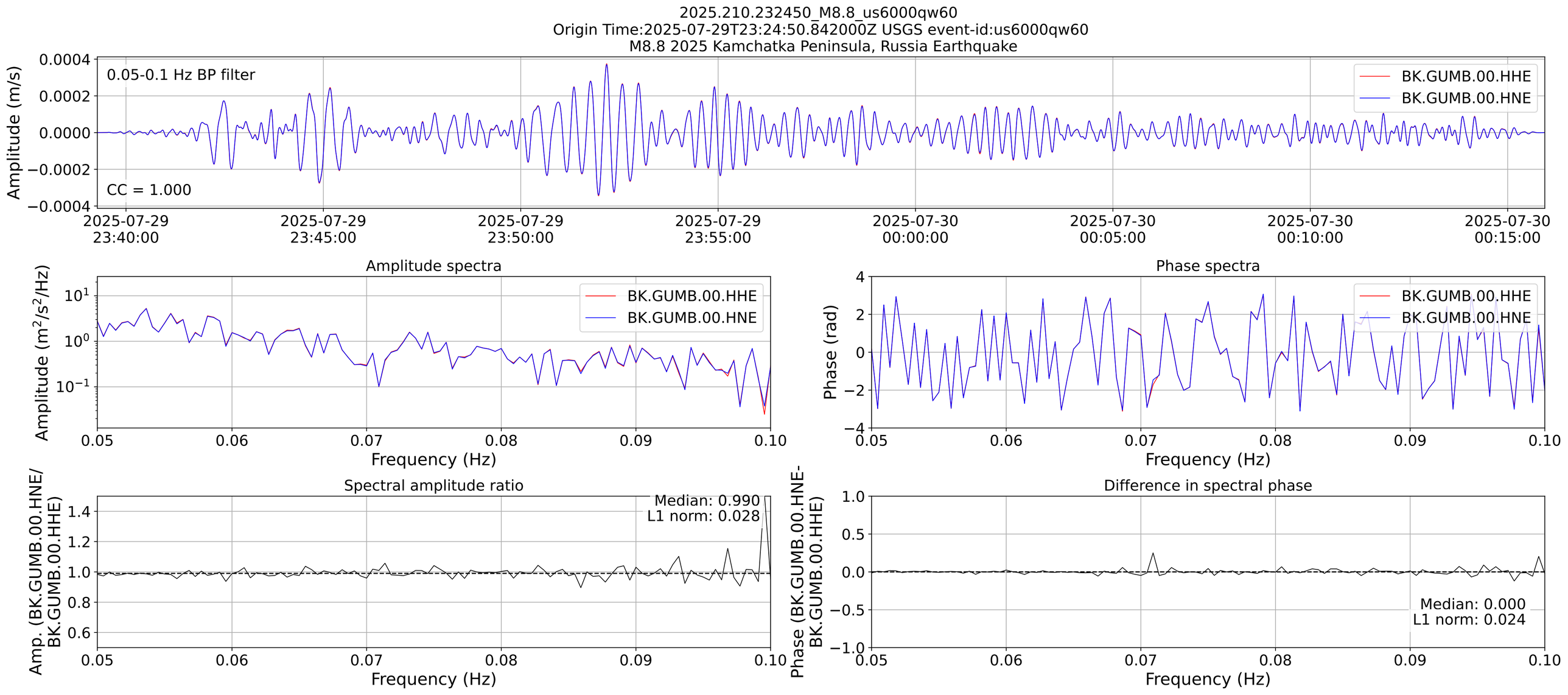

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GRPK.00.HHN
BK.GRPK.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNN/ BK.GRPK.00.HHN)
Median: 0.991
L1 norm: 0.020
Difference in spectral phase
Phase (BK.GRPK.00.HNN- BK.GRPK.00.HHN)
Median: 0.003
L1 norm: 0.020

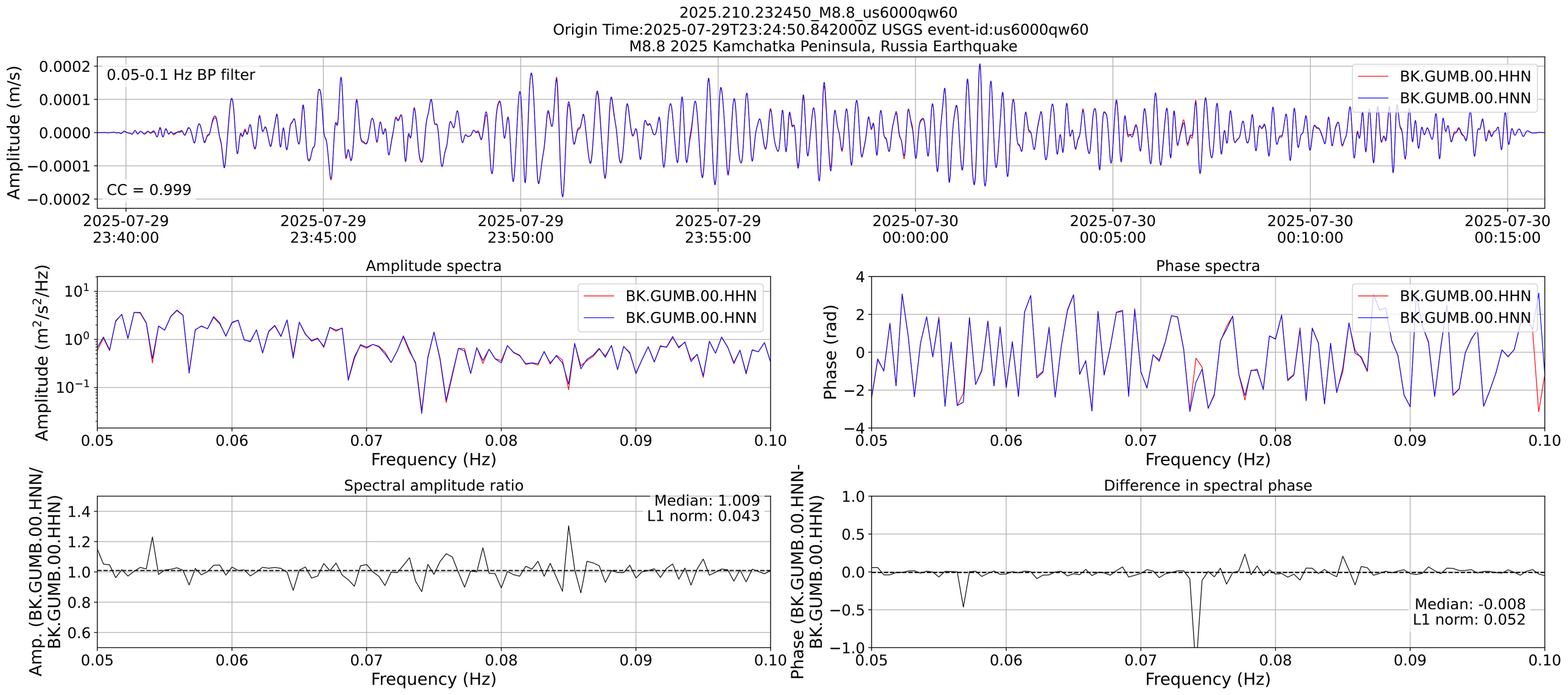

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GRPK.00.HHZ
BK.GRPK.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNZ/ BK.GRPK.00.HHZ)
Median: 0.991
L1 norm: 0.020
Difference in spectral phase
Phase (BK.GRPK.00.HNZ- BK.GRPK.00.HHZ)
Median: 0.000
L1 norm: 0.026

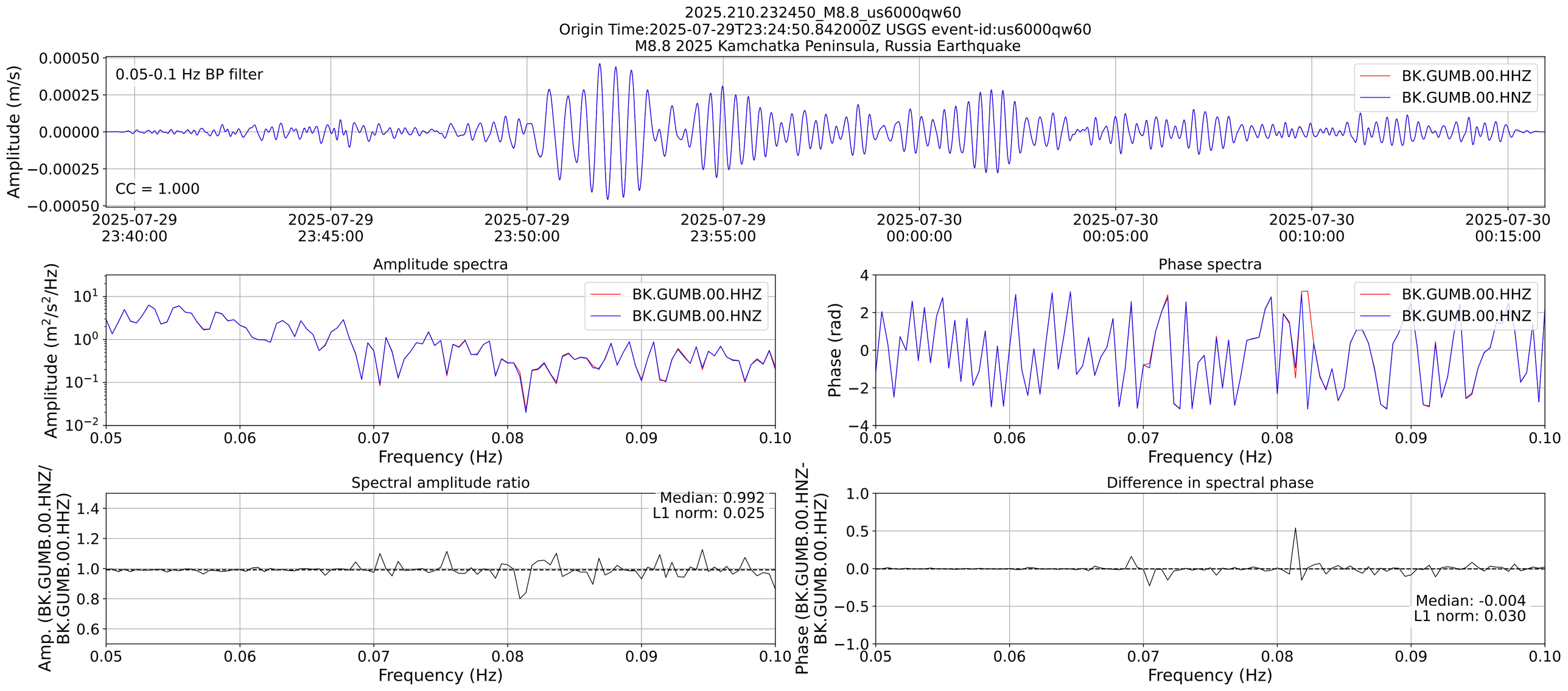

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GTSB.00.HHE
BK.GTSB.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNE/ BK.GTSB.00.HHE)
Median: 0.986
L1 norm: 0.017
Difference in spectral phase
Phase (BK.GTSB.00.HNE- BK.GTSB.00.HHE)
Median: -0.006
L1 norm: 0.018

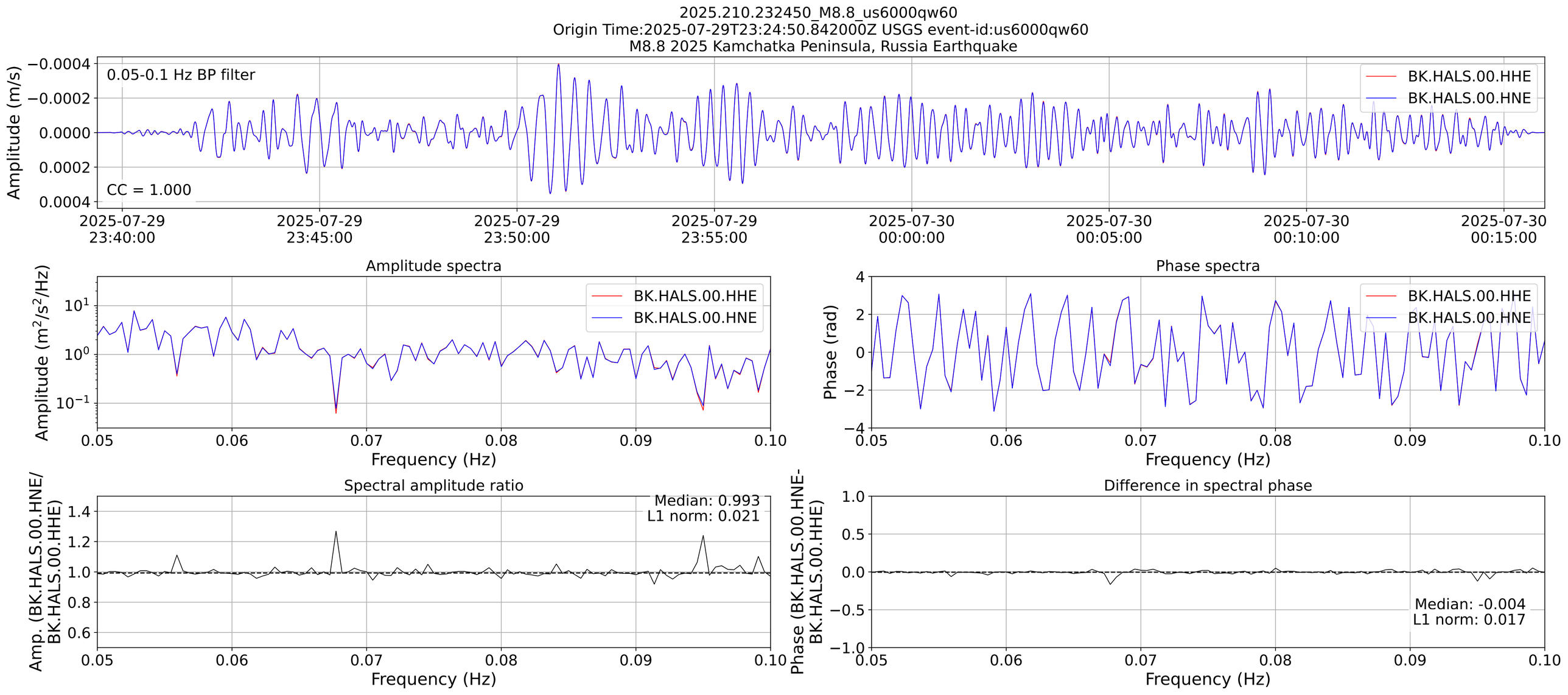

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GTSB.00.HHN
BK.GTSB.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNN/ BK.GTSB.00.HHN)
Median: 0.987
L1 norm: 0.024
Difference in spectral phase
Phase (BK.GTSB.00.HNN- BK.GTSB.00.HHN)
Median: 0.001
L1 norm: 0.023

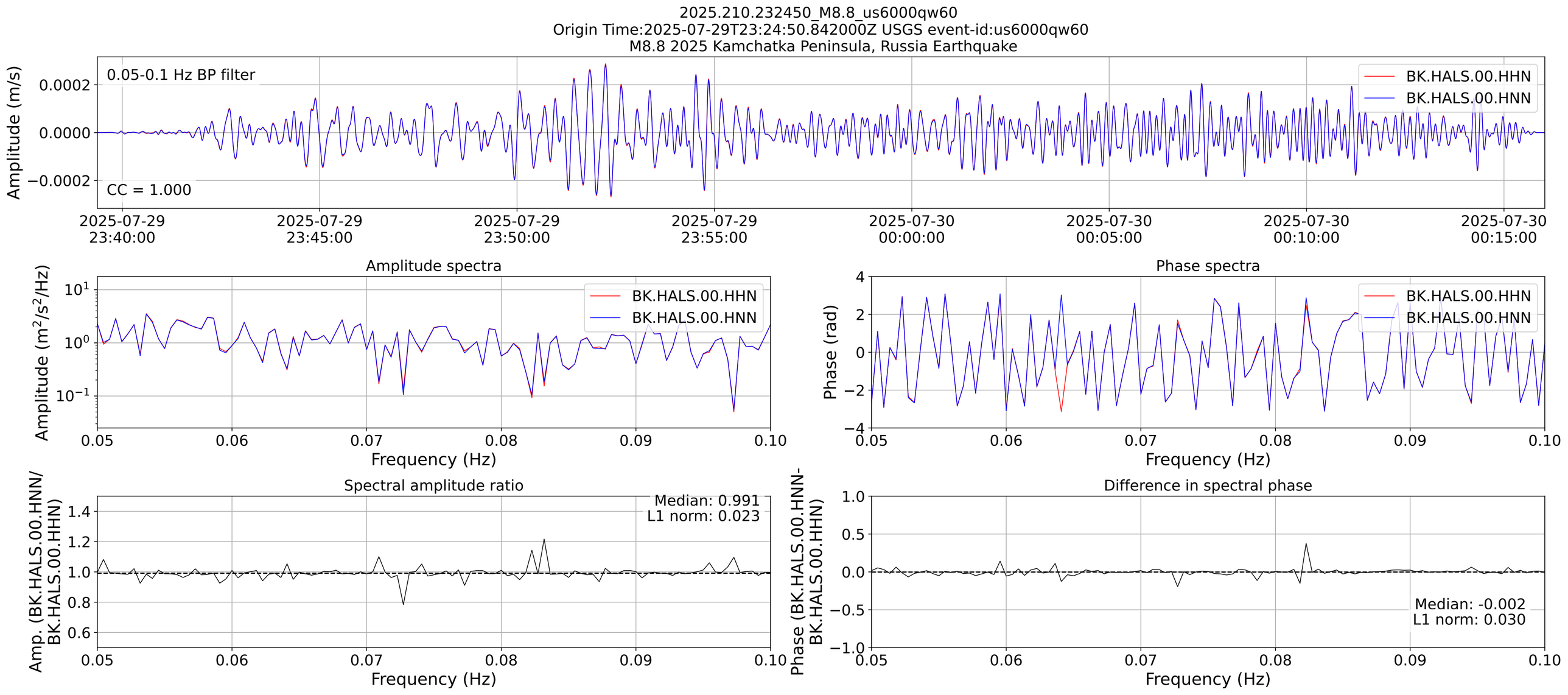

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GTSB.00.HHZ
BK.GTSB.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNZ/ BK.GTSB.00.HHZ)
Median: 0.987
L1 norm: 0.025
Difference in spectral phase
Phase (BK.GTSB.00.HNZ- BK.GTSB.00.HHZ)
Median: -0.002
L1 norm: 0.023

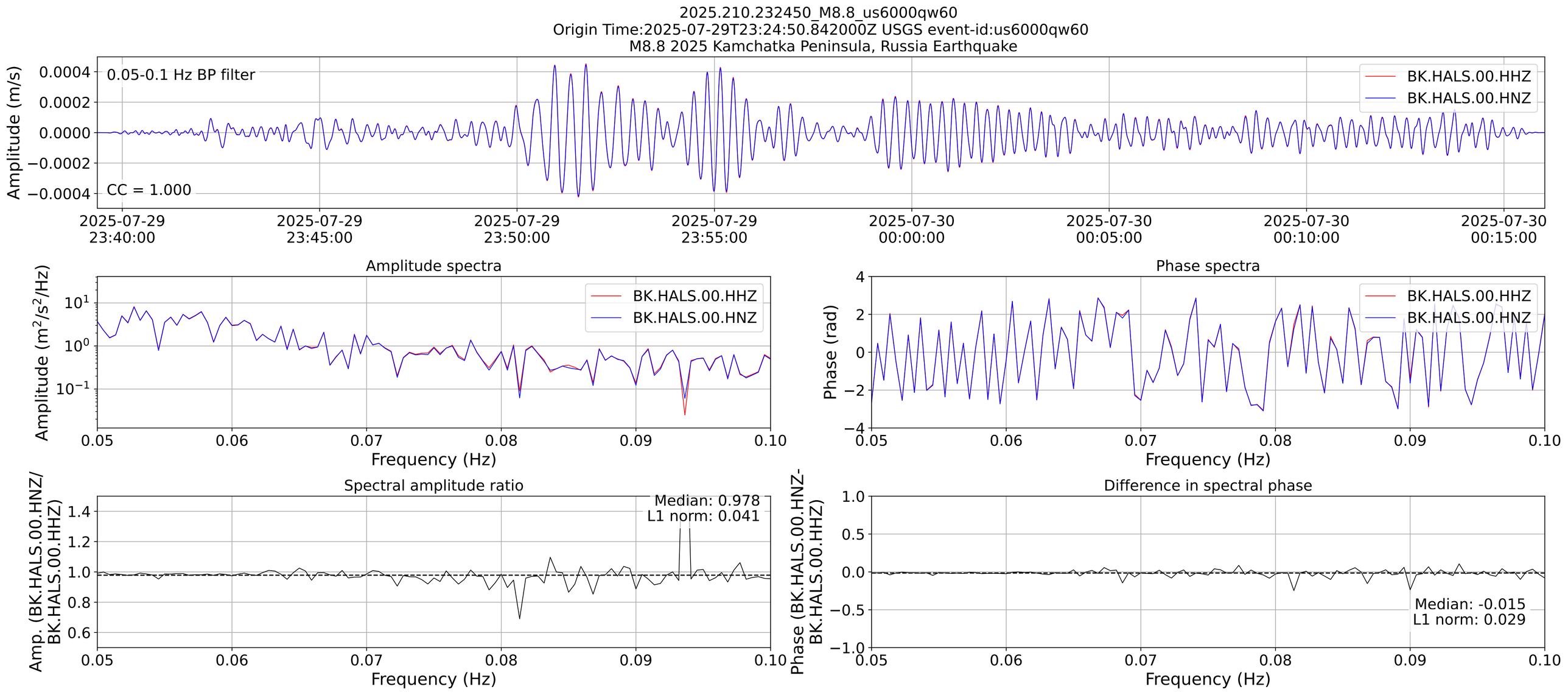

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GUMB.00.HHE
BK.GUMB.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNE/ BK.GUMB.00.HHE)
Median: 0.990
L1 norm: 0.028
Difference in spectral phase
Phase (BK.GUMB.00.HNE- BK.GUMB.00.HHE)
Median: 0.000
L1 norm: 0.024

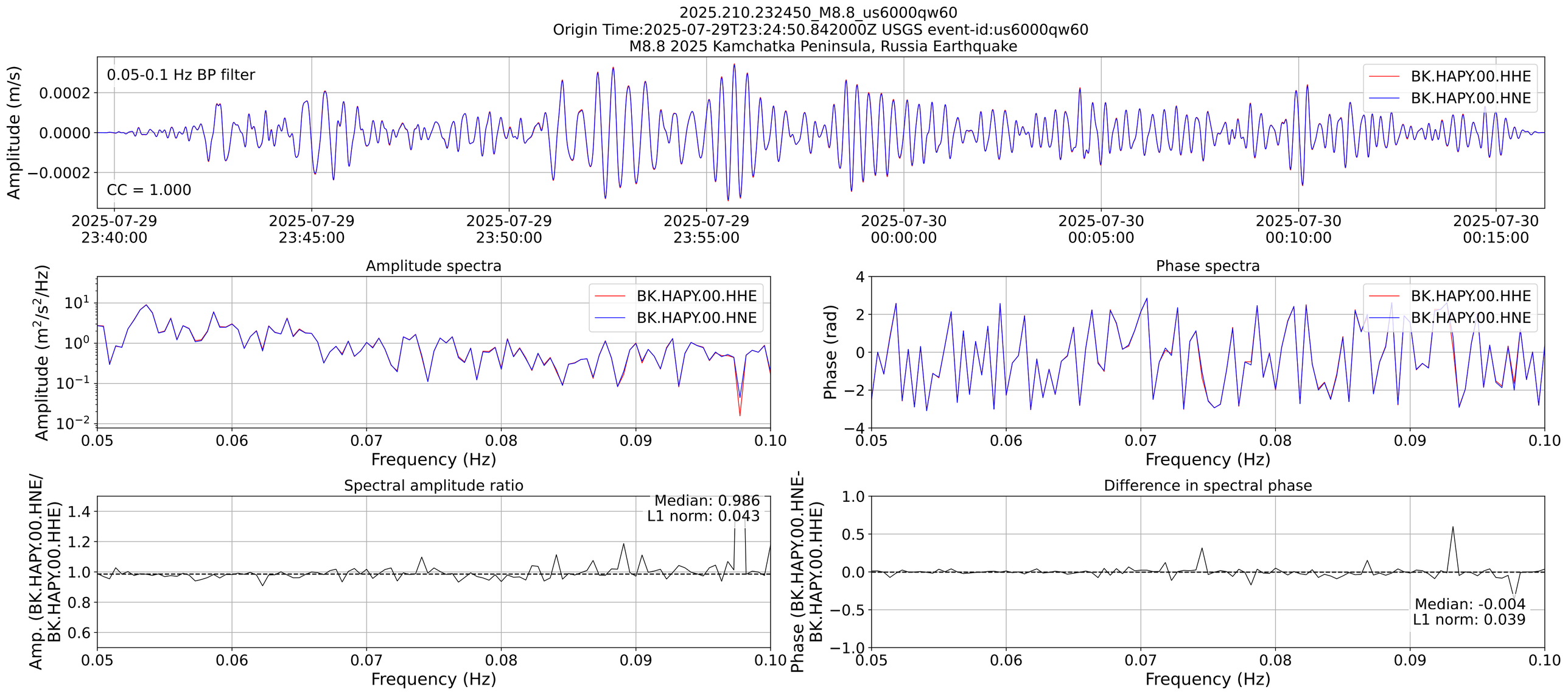

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.GUMB.00.HHN
BK.GUMB.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNN/ BK.GUMB.00.HHN)
Median: 1.009
L1 norm: 0.043
Difference in spectral phase
Phase (BK.GUMB.00.HNN- BK.GUMB.00.HHN)
Median: -0.008
L1 norm: 0.052

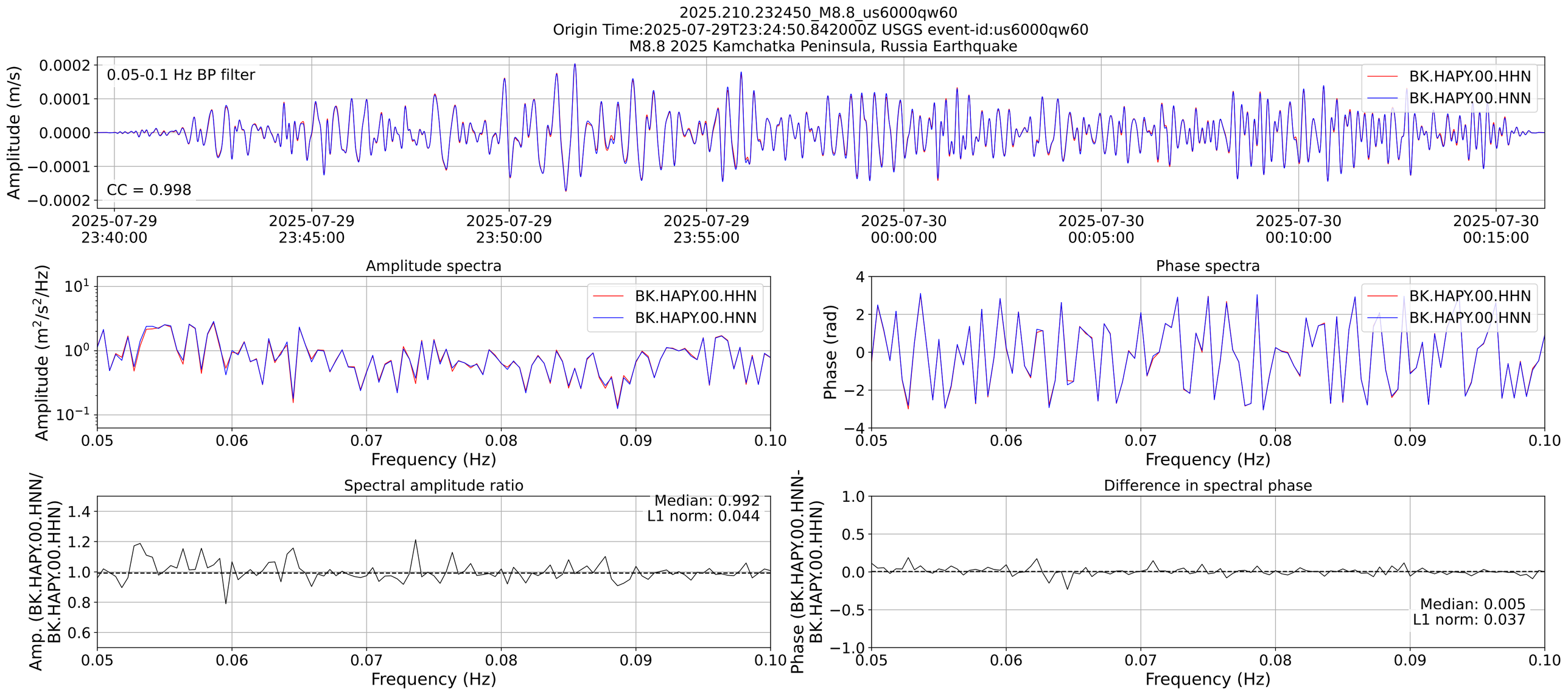

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.GUMB.00.HHZ
BK.GUMB.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNZ/ BK.GUMB.00.HHZ)
Median: 0.992
L1 norm: 0.025
Difference in spectral phase
Phase (BK.GUMB.00.HNZ- BK.GUMB.00.HHZ)
Median: -0.004
L1 norm: 0.030

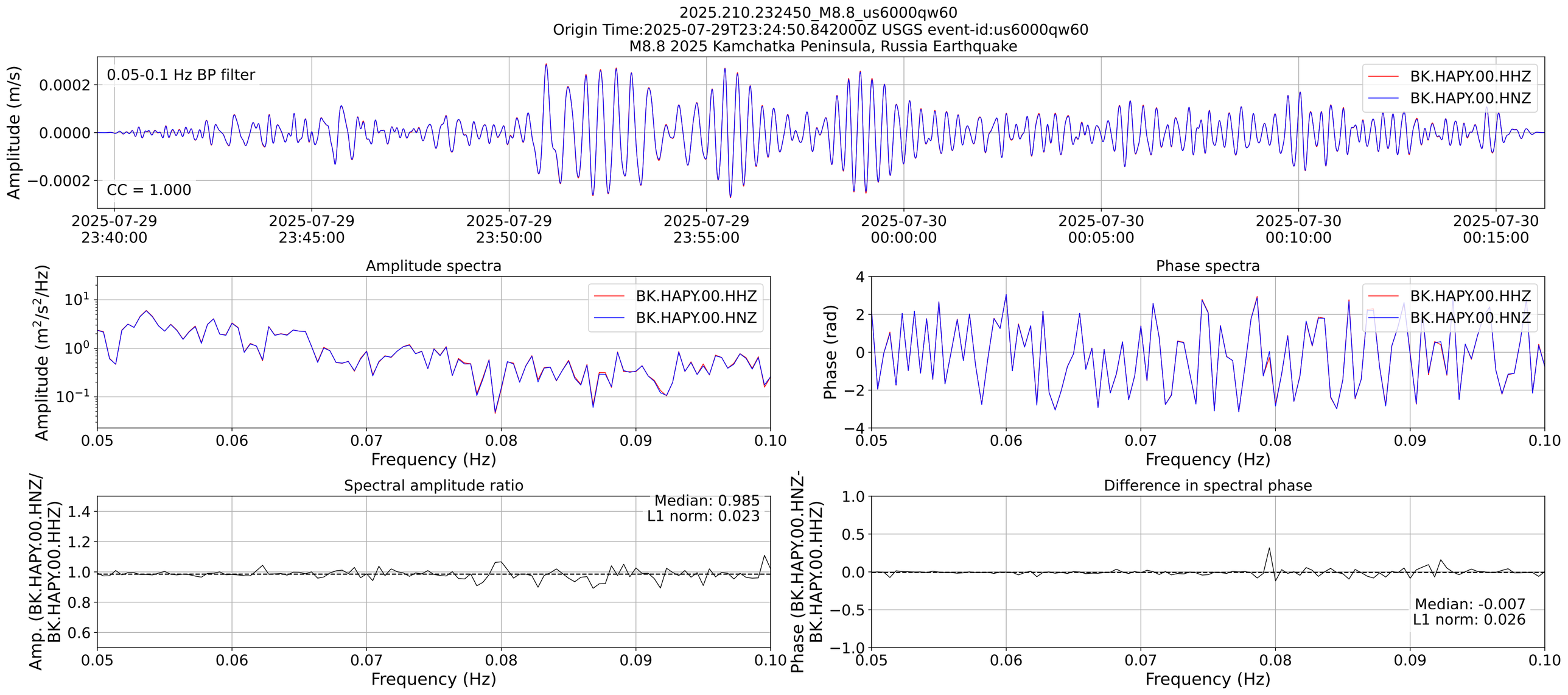

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HALS.00.HHE
BK.HALS.00.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNE/ BK.HALS.00.HHE)
Median: 0.993
L1 norm: 0.021
Difference in spectral phase
Phase (BK.HALS.00.HNE- BK.HALS.00.HHE)
Median: -0.004
L1 norm: 0.017

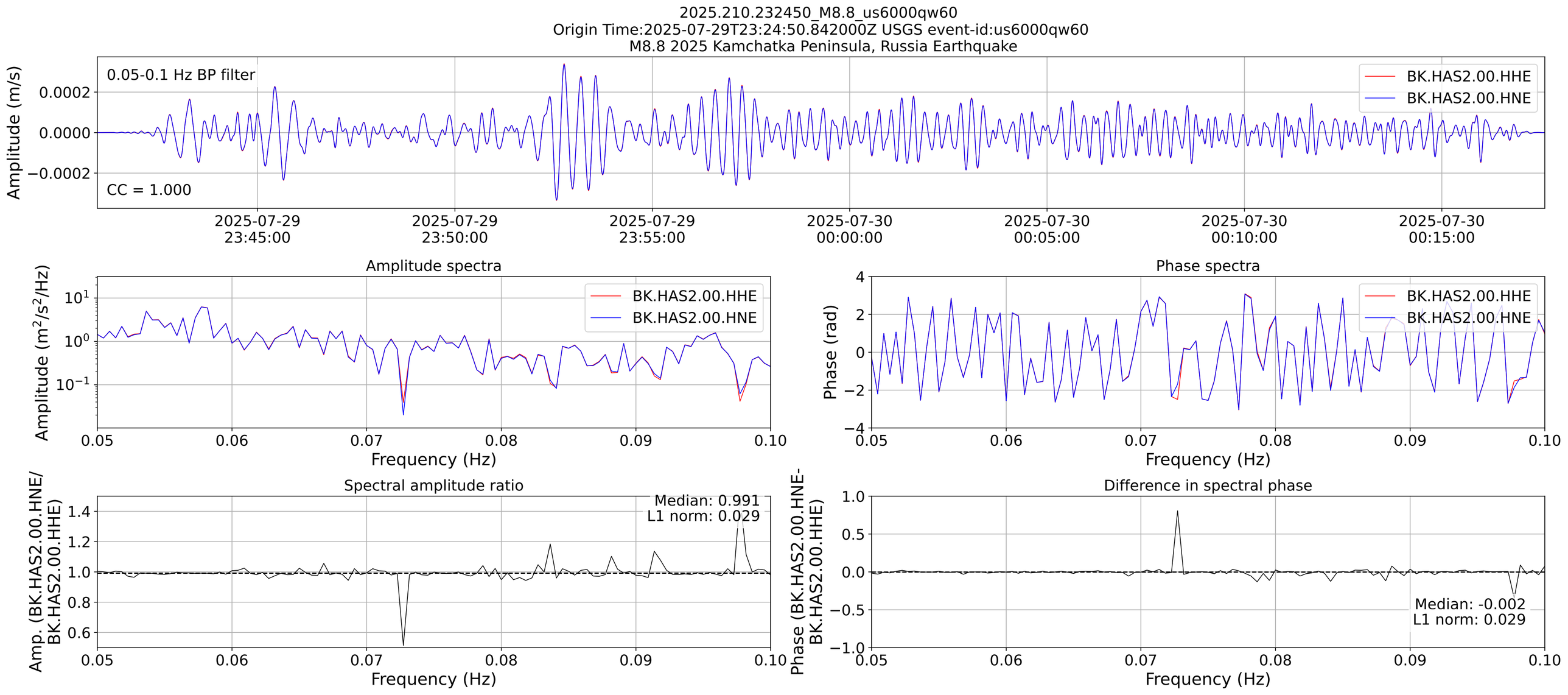

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HALS.00.HHN
BK.HALS.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNN/ BK.HALS.00.HHN)
Median: 0.991
L1 norm: 0.023
Difference in spectral phase
Phase (BK.HALS.00.HNN- BK.HALS.00.HHN)
Median: -0.002
L1 norm: 0.030

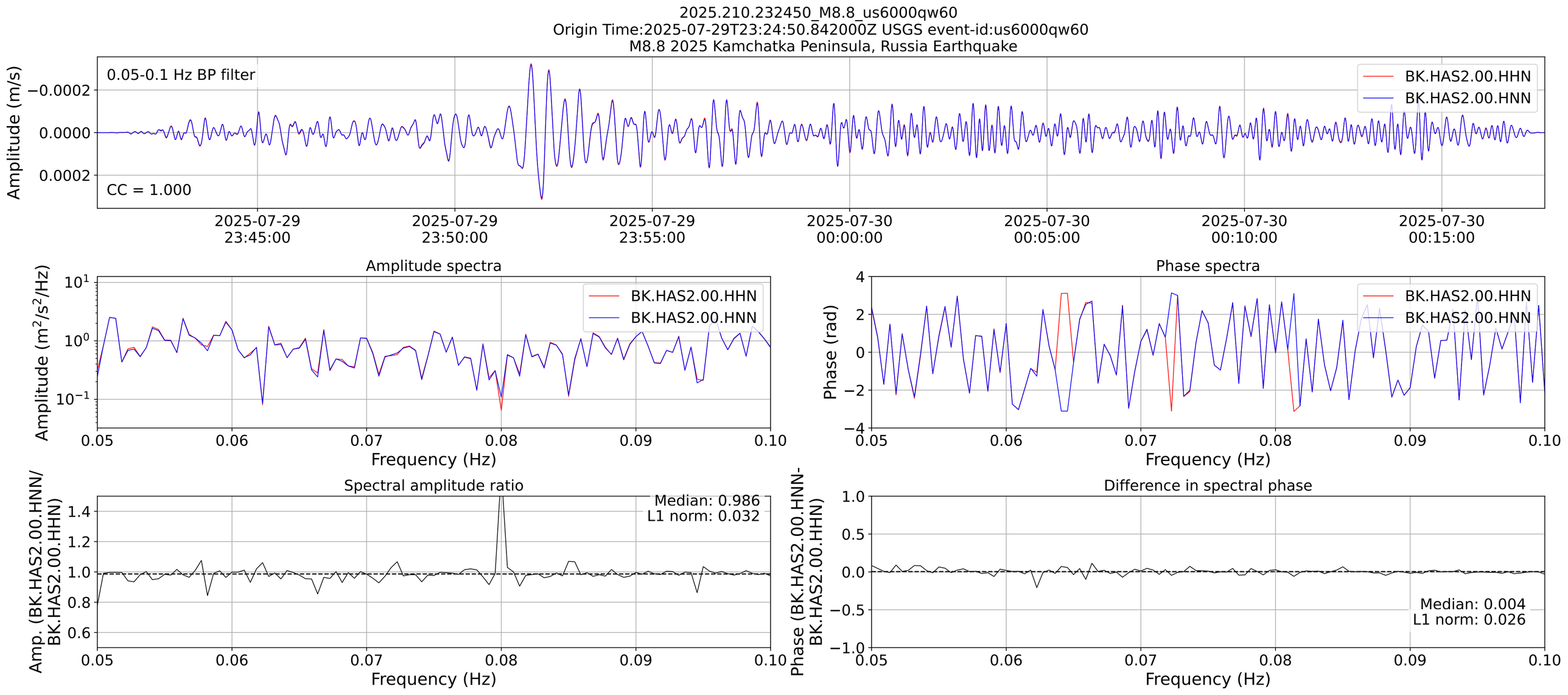

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HALS.00.HHZ
BK.HALS.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNZ/ BK.HALS.00.HHZ)
Median: 0.978
L1 norm: 0.041
Difference in spectral phase
Phase (BK.HALS.00.HNZ- BK.HALS.00.HHZ)
Median: -0.015
L1 norm: 0.029

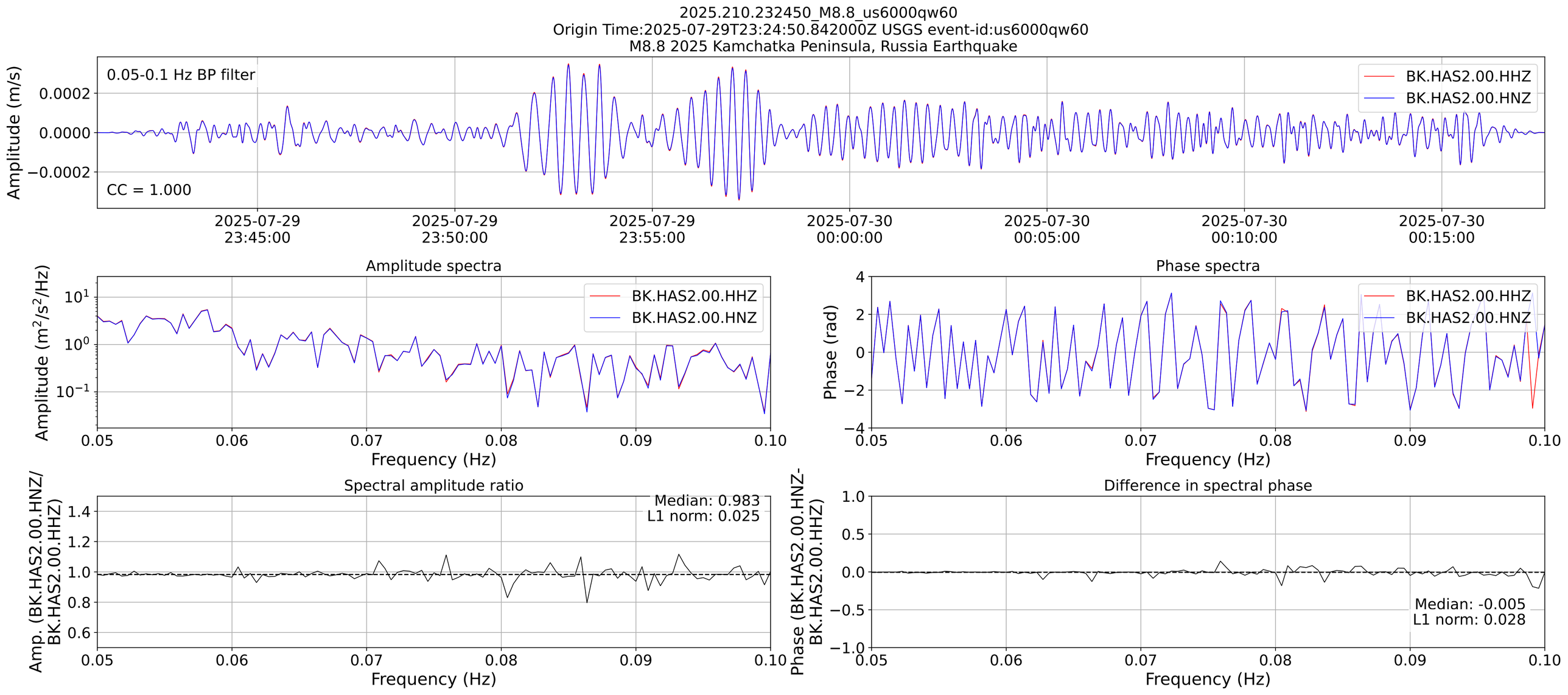

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAPY.00.HHE
BK.HAPY.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNE/ BK.HAPY.00.HHE)
Median: 0.986
L1 norm: 0.043
Difference in spectral phase
Phase (BK.HAPY.00.HNE- BK.HAPY.00.HHE)
Median: -0.004
L1 norm: 0.039

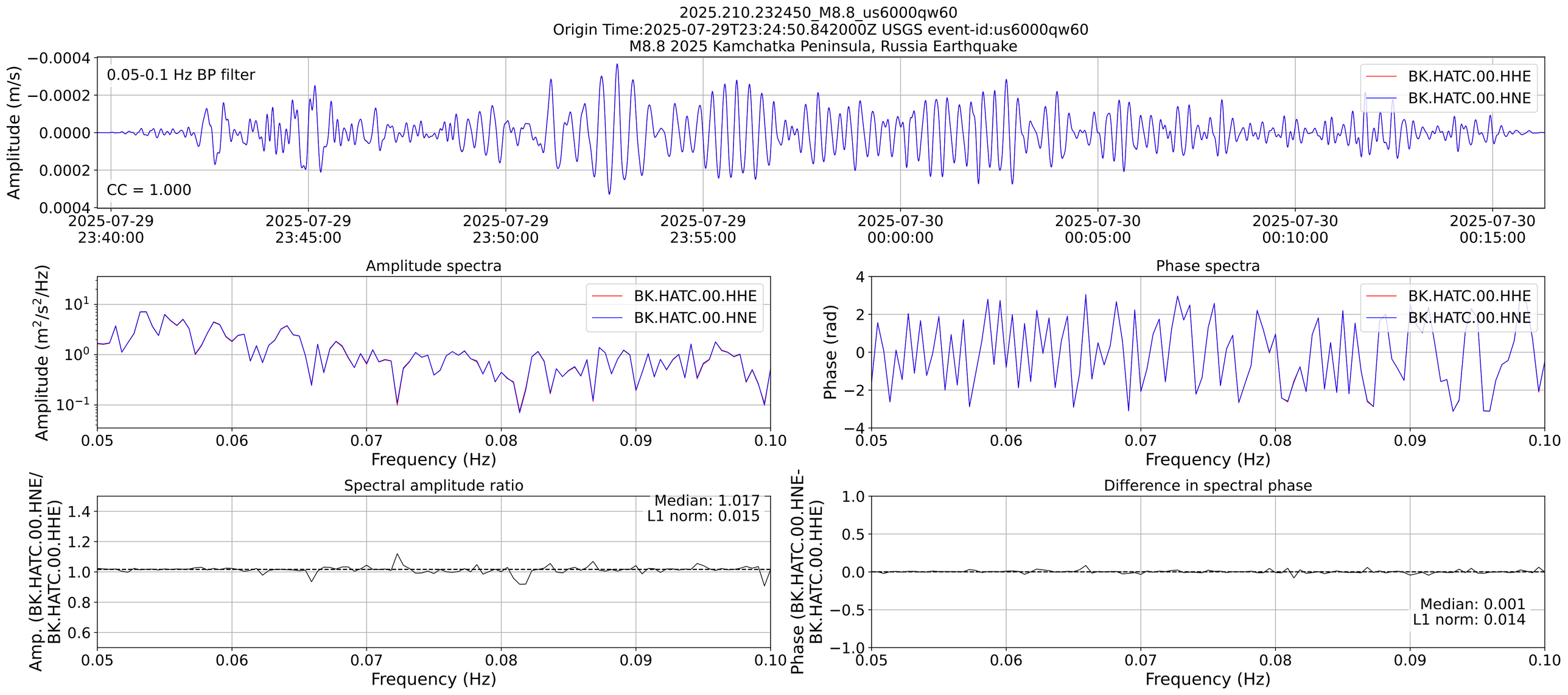

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.HAPY.00.HHN
BK.HAPY.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNN/ BK.HAPY.00.HHN)
Median: 0.992
L1 norm: 0.044
Difference in spectral phase
Phase (BK.HAPY.00.HNN- BK.HAPY.00.HHN)
Median: 0.005
L1 norm: 0.037

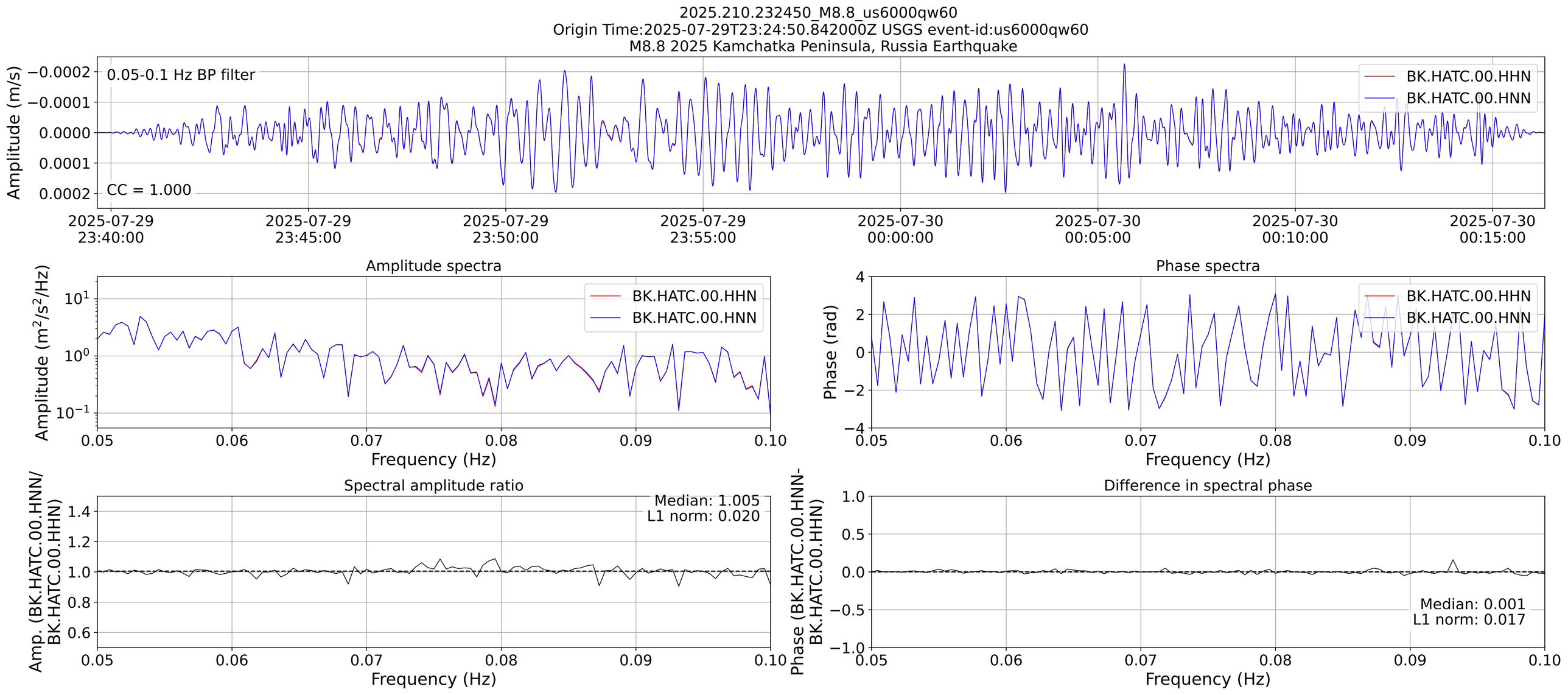

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAPY.00.HHZ
BK.HAPY.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNZ/ BK.HAPY.00.HHZ)
Median: 0.985
L1 norm: 0.023
Difference in spectral phase
Phase (BK.HAPY.00.HNZ-BK.HAPY.00.HHZ)
Median: -0.007
L1 norm: 0.026

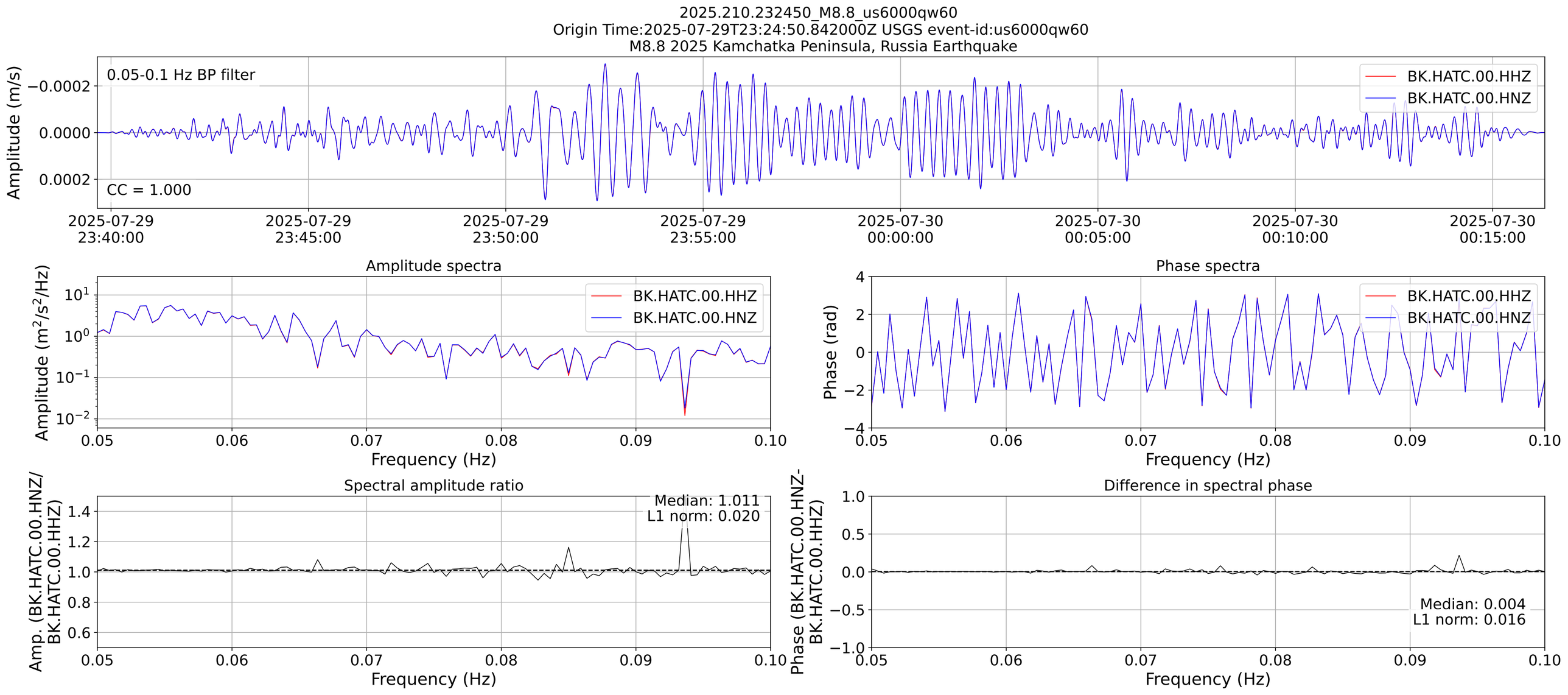

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAS2.00.HHE
BK.HAS2.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNE/ BK.HAS2.00.HHE)
Median: 0.991
L1 norm: 0.029
Difference in spectral phase
Phase (BK.HAS2.00.HNE- BK.HAS2.00.HHE)
Median: -0.002
L1 norm: 0.029

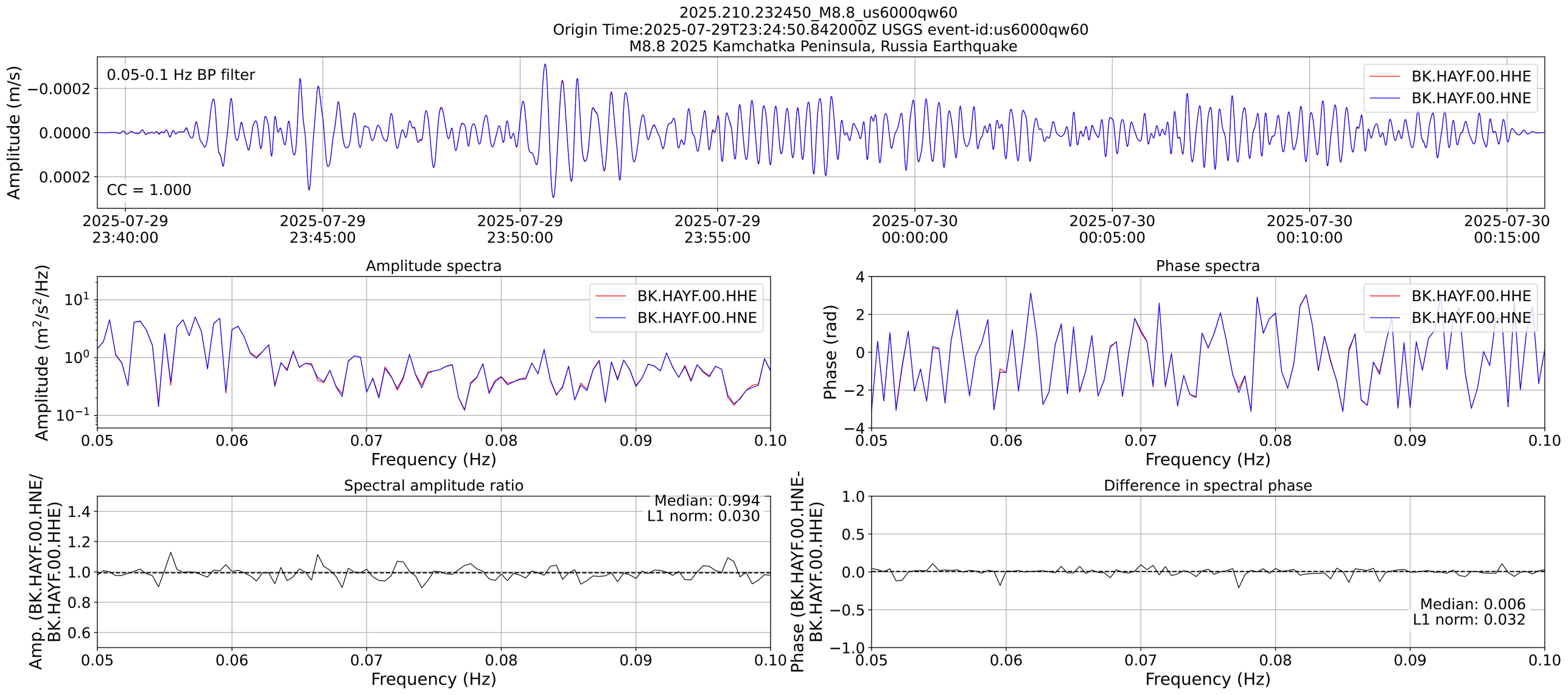

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAS2.00.HHN
BK.HAS2.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNN/ BK.HAS2.00.HHN)
Median: 0.986
L1 norm: 0.032
Difference in spectral phase
Phase (BK.HAS2.00.HNN- BK.HAS2.00.HHN)
Median: 0.004
L1 norm: 0.026

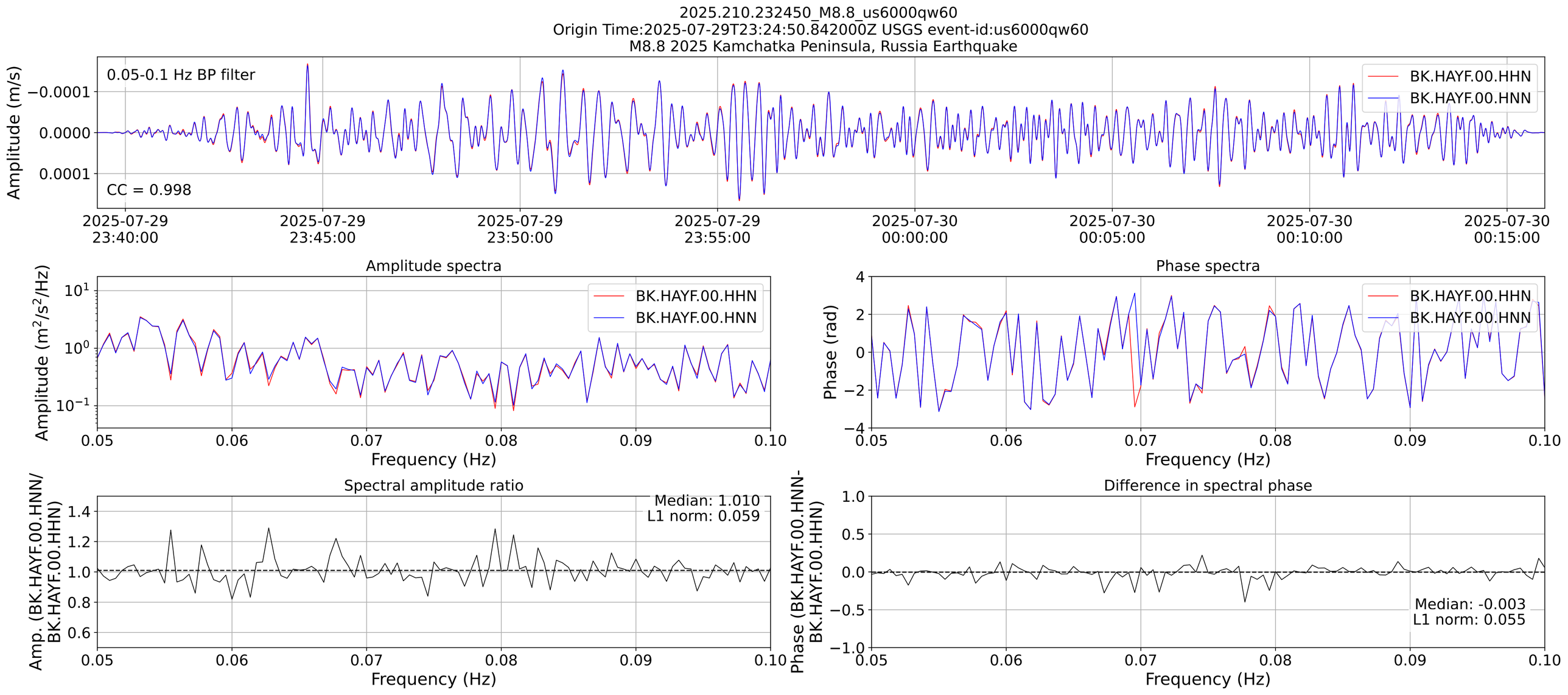

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAS2.00.HHZ
BK.HAS2.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNZ/ BK.HAS2.00.HHZ)
Median: 0.983
L1 norm: 0.025
Difference in spectral phase
Phase (BK.HAS2.00.HNZ- BK.HAS2.00.HHZ)
Median: -0.005
L1 norm: 0.028

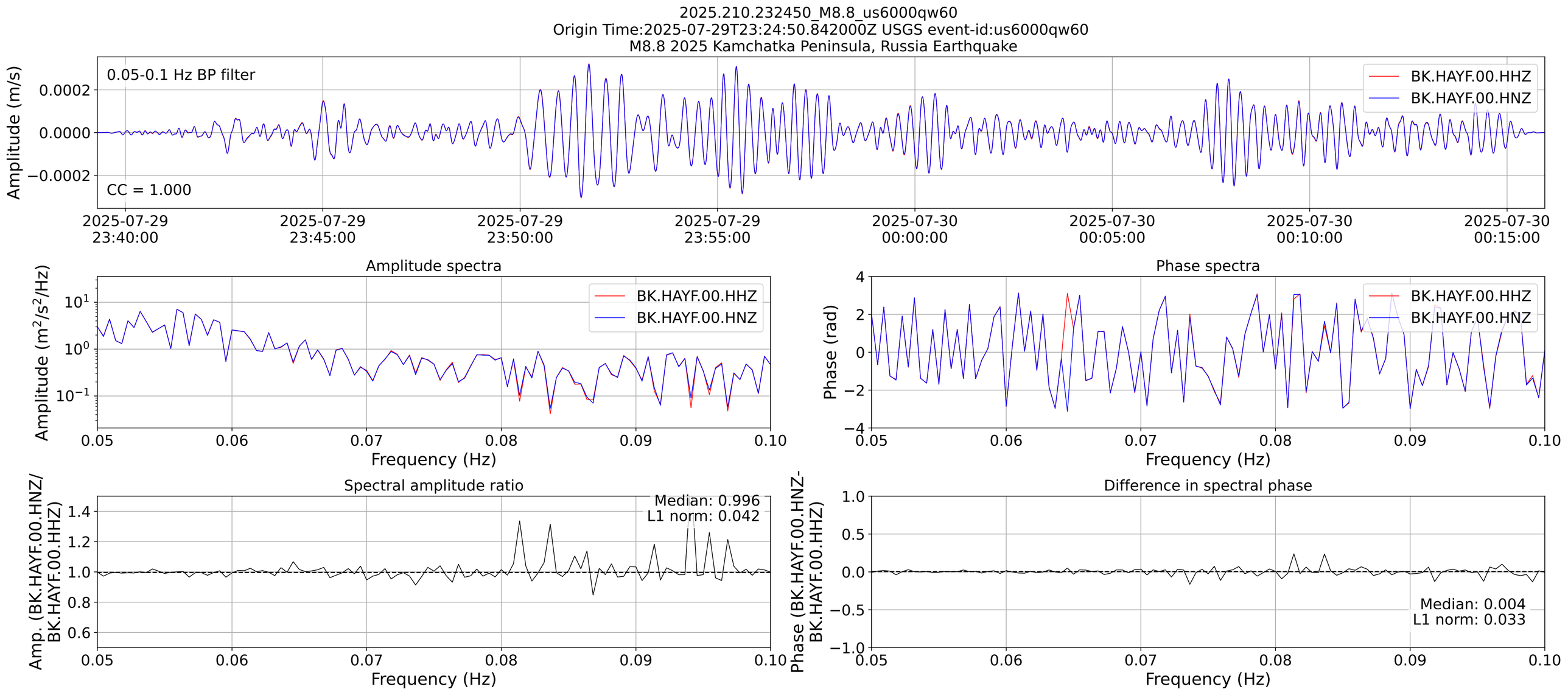

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HATC.00.HHE
BK.HATC.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNE/ BK.HATC.00.HHE)
Median: 1.017
L1 norm: 0.015
Difference in spectral phase
Phase (BK.HATC.00.HNE- BK.HATC.00.HHE)
Median: 0.001
L1 norm: 0.014

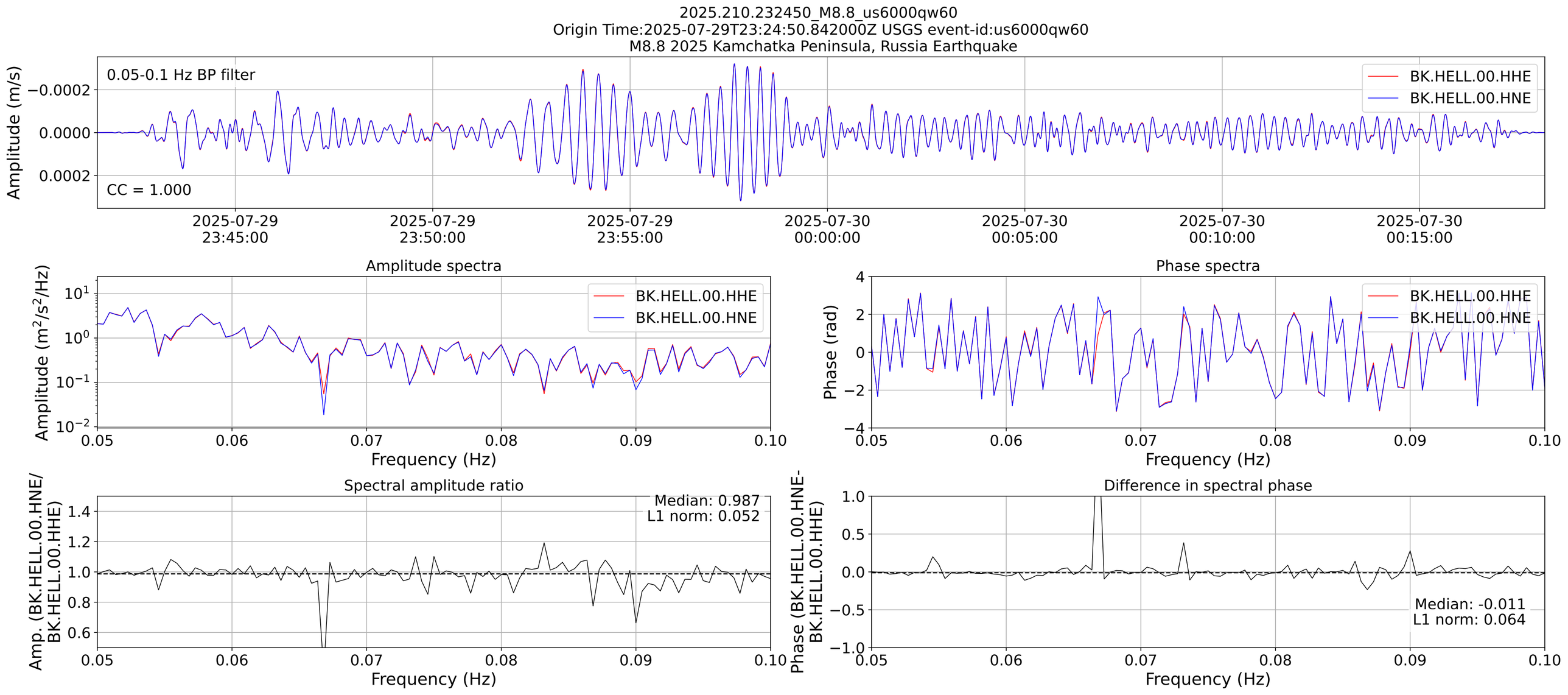

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HATC.00.HHN
BK.HATC.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNN/ BK.HATC.00.HHN)
Median: 1.005
L1 norm: 0.020
Difference in spectral phase
Phase (BK.HATC.00.HNN- BK.HATC.00.HHN)
Median: 0.001
L1 norm: 0.017

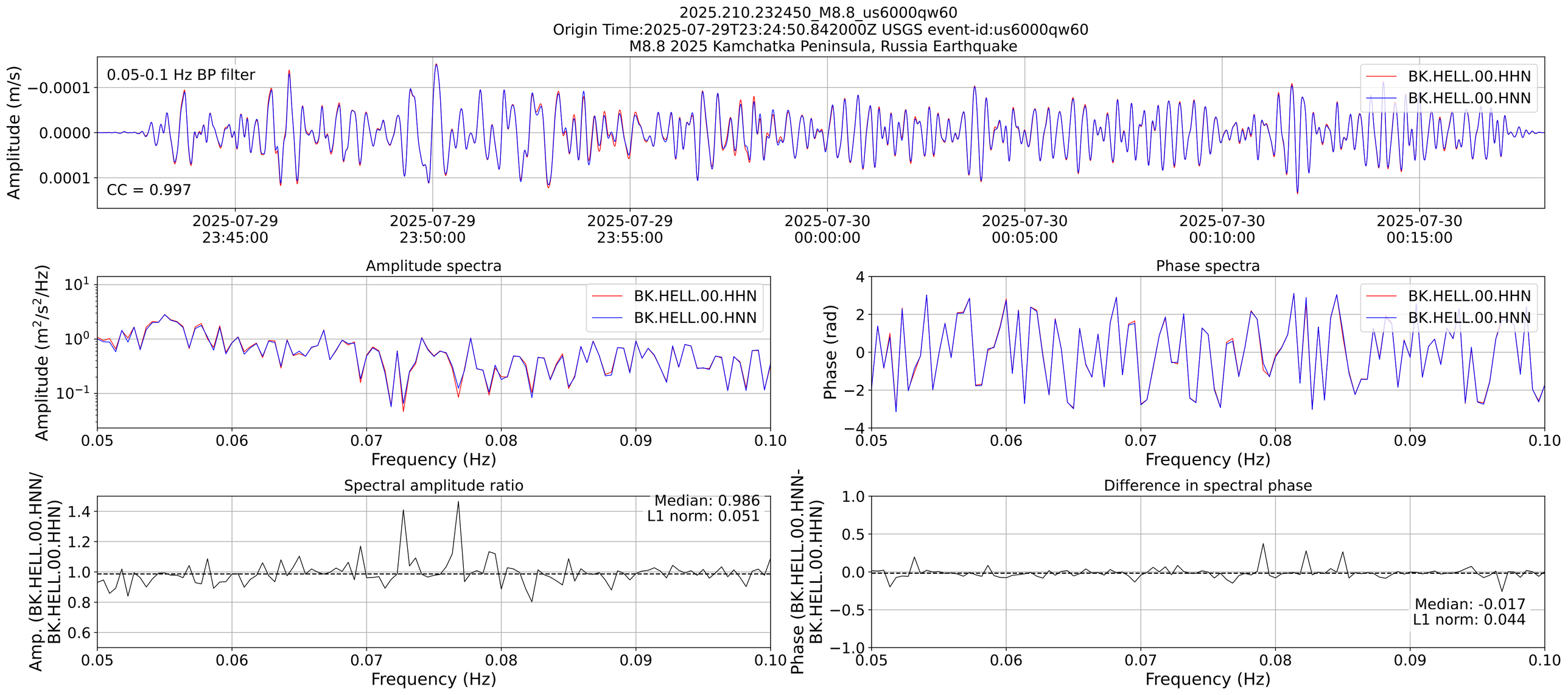

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HATC.00.HHZ
BK.HATC.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNZ/ BK.HATC.00.HHZ)
Median: 1.011
L1 norm: 0.020
Difference in spectral phase
Phase (BK.HATC.00.HNZ- BK.HATC.00.HHZ)
Median: 0.004
L1 norm: 0.016

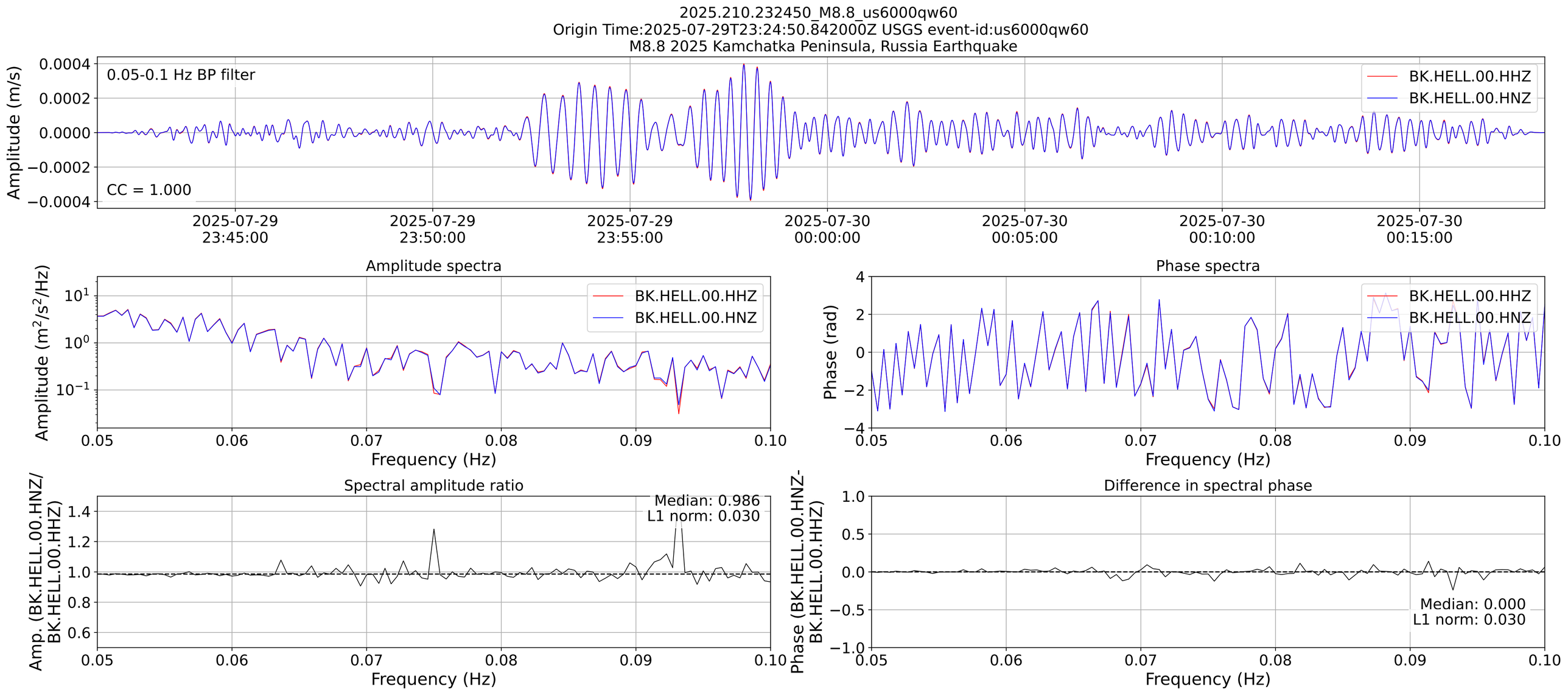

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAYF.00.HHE
BK.HAYF.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNE/ BK.HAYF.00.HHE)
Median: 0.994
L1 norm: 0.030
Difference in spectral phase
Phase (BK.HAYF.00.HNE- BK.HAYF.00.HHE)
Median: 0.006
L1 norm: 0.032

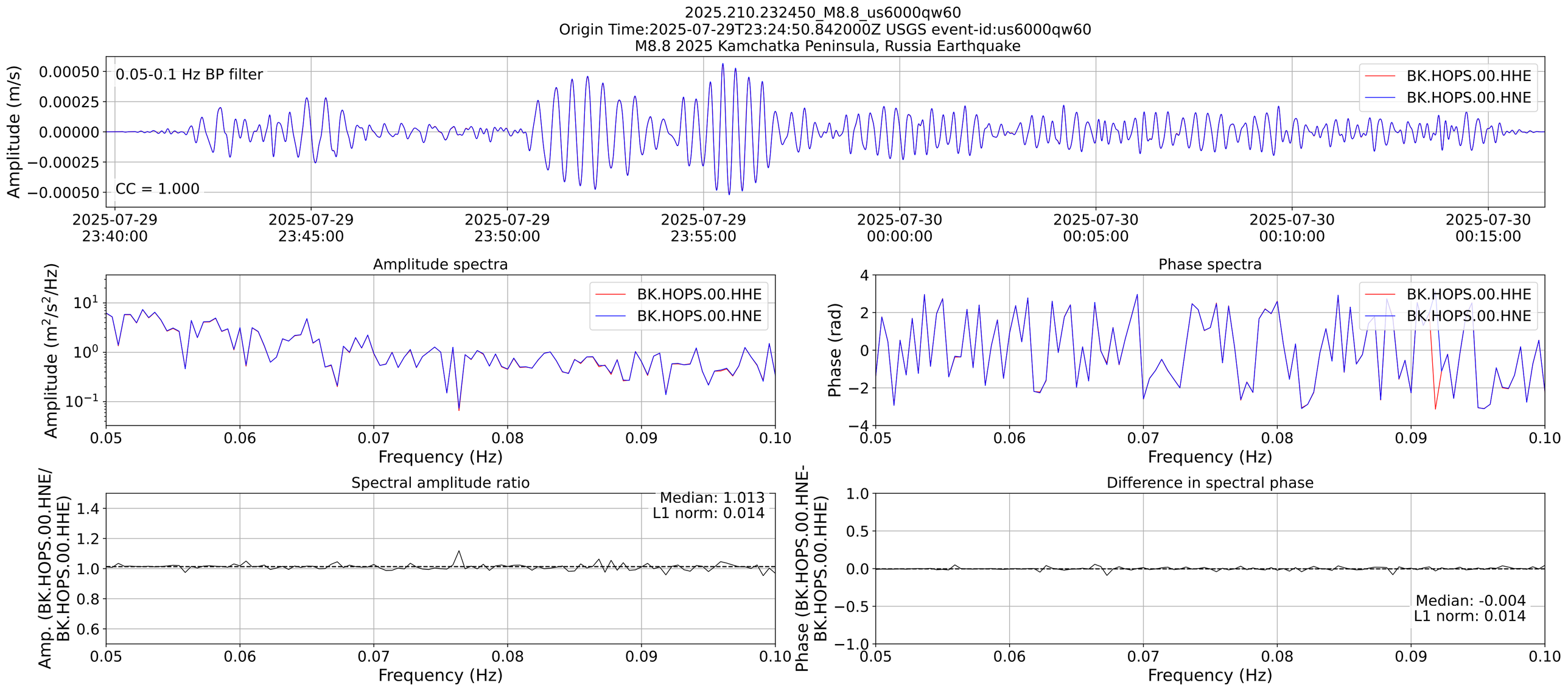

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.HAYF.00.HHN
BK.HAYF.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNN/ BK.HAYF.00.HHN)
Median: 1.010
L1 norm: 0.059
Difference in spectral phase
Phase (BK.HAYF.00.HNN- BK.HAYF.00.HHN)
Median: -0.003
L1 norm: 0.055

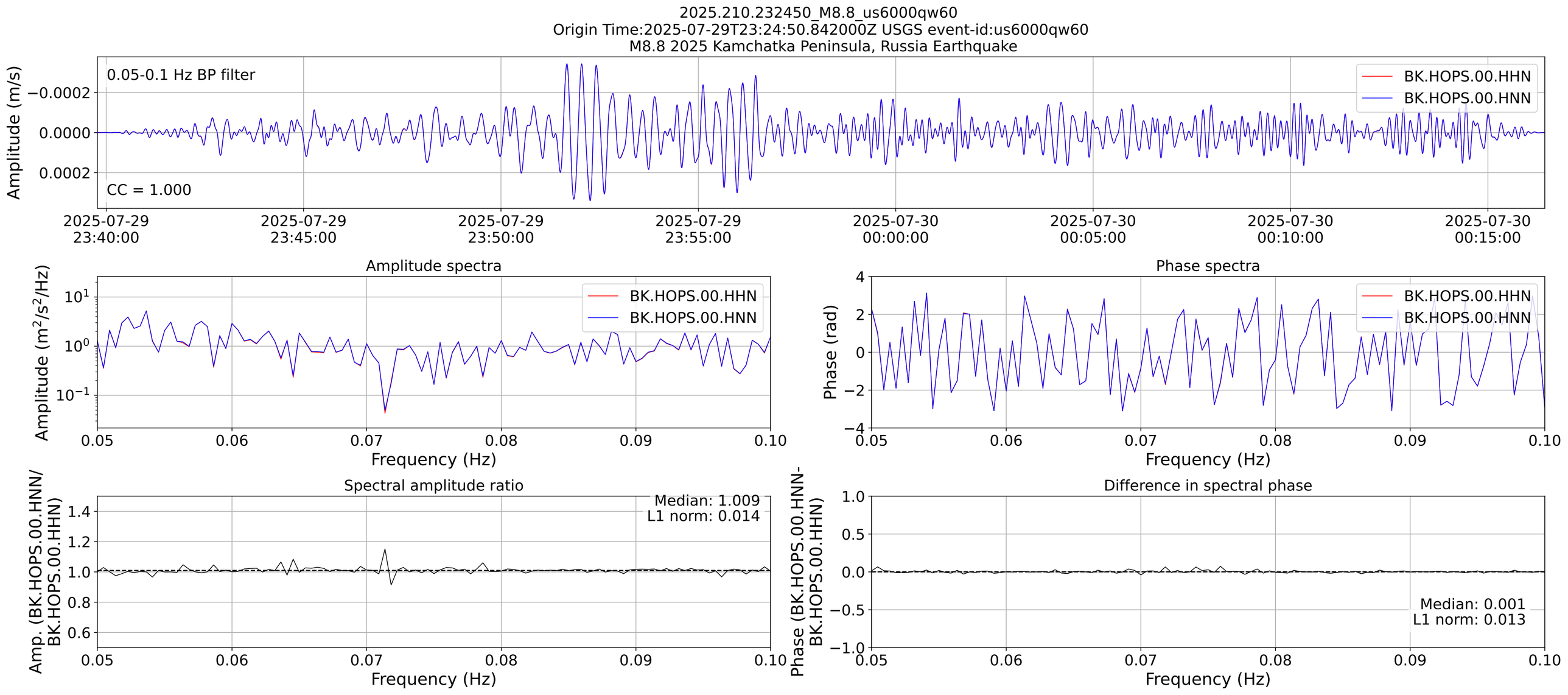

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HAYF.00.HHZ
BK.HAYF.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNZ/ BK.HAYF.00.HHZ)
Median: 0.996
L1 norm: 0.042
Difference in spectral phase
Phase (BK.HAYF.00.HNZ- BK.HAYF.00.HHZ)
Median: 0.004
L1 norm: 0.033

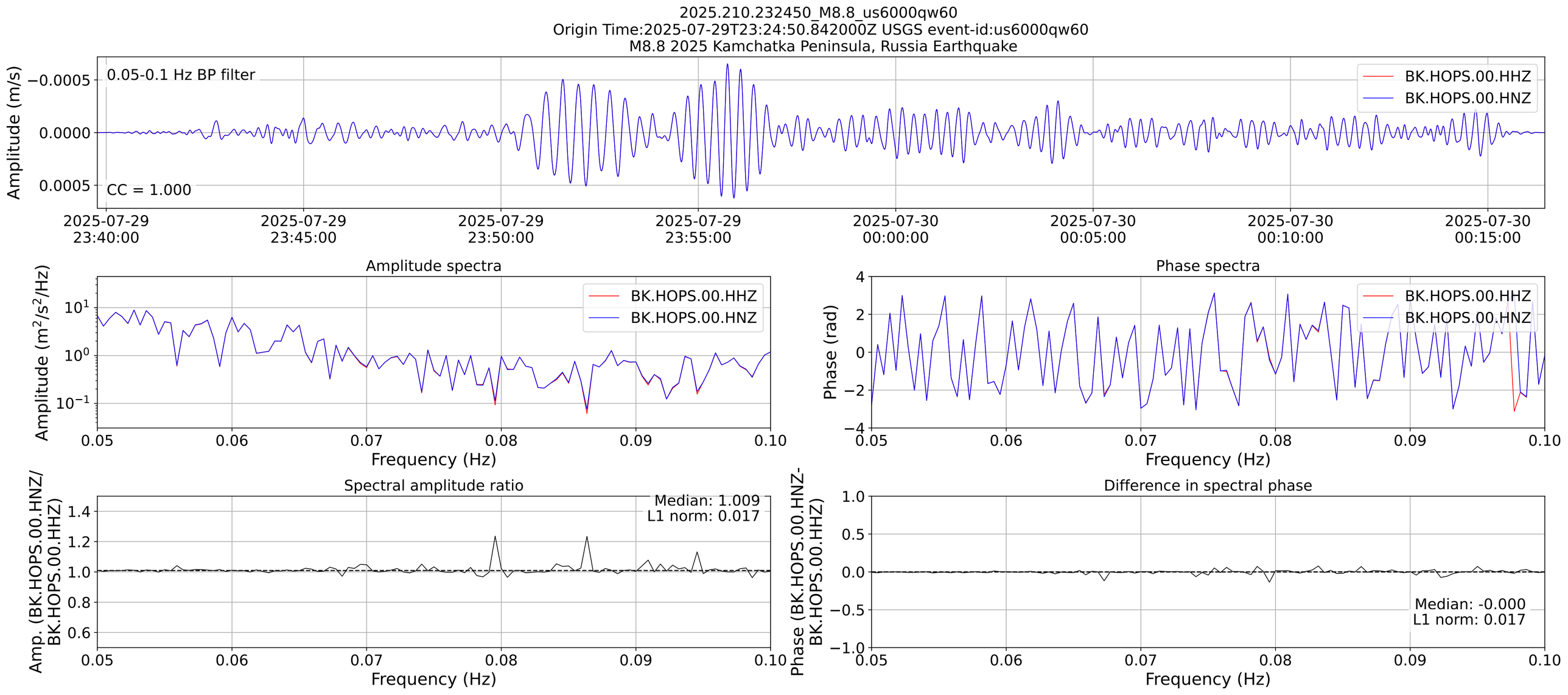

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HELL.00.HHE
BK.HELL.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNE/ BK.HELL.00.HHE)
Median: 0.987
L1 norm: 0.052
Difference in spectral phase
Phase (BK.HELL.00.HNE- BK.HELL.00.HHE)
Median: -0.011
L1 norm: 0.064

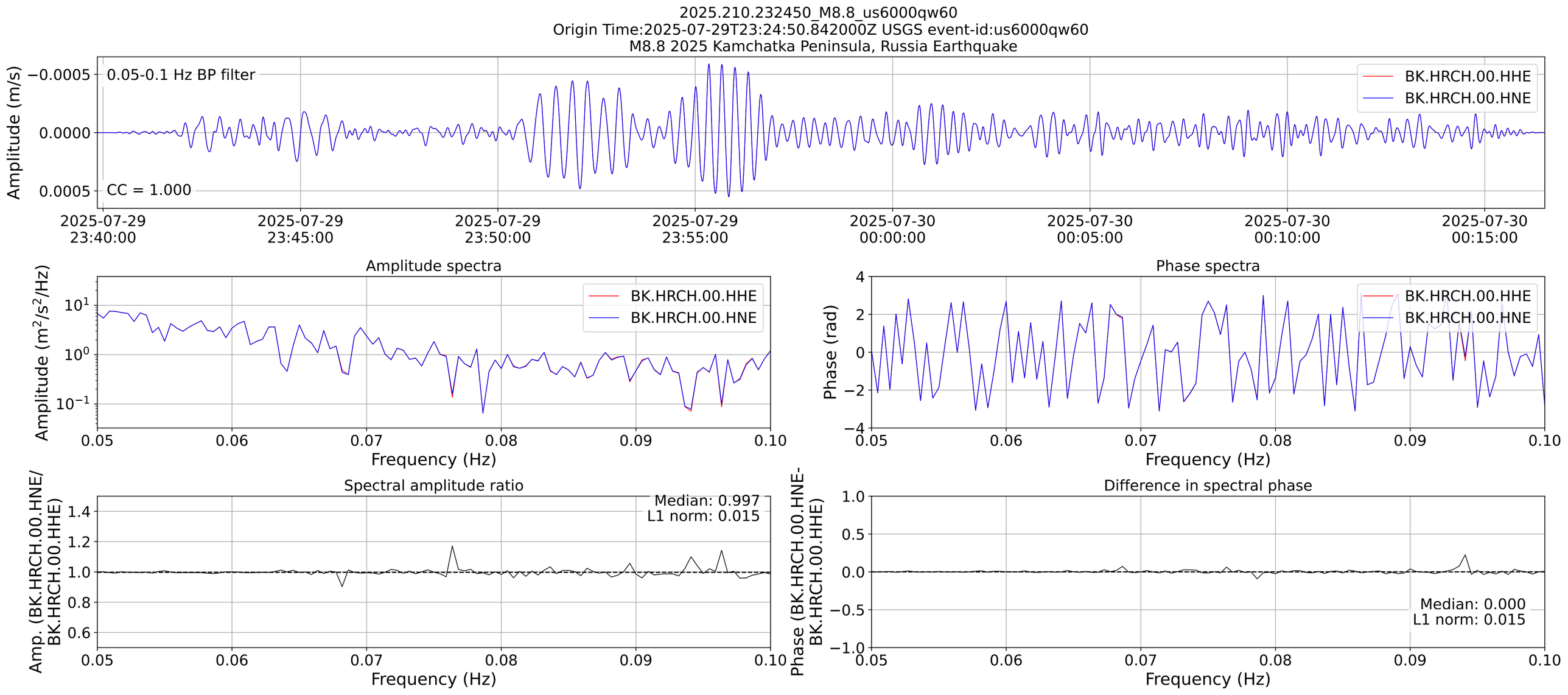

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.HELL.00.HHN
BK.HELL.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNN/ BK.HELL.00.HHN)
Median: 0.986
L1 norm: 0.051
Difference in spectral phase
Phase (BK.HELL.00.HNN- BK.HELL.00.HHN)
Median: -0.017
L1 norm: 0.044

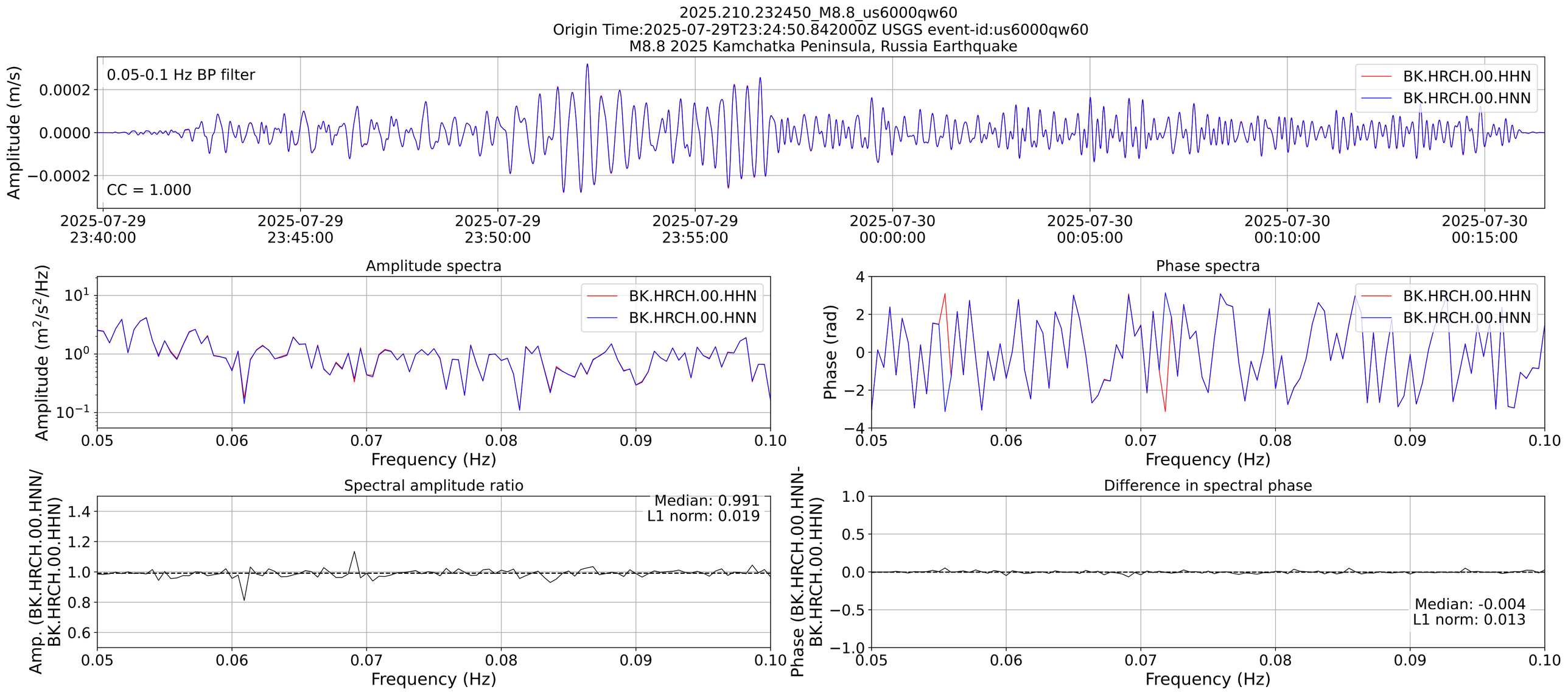

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HELL.00.HHZ
BK.HELL.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNZ/ BK.HELL.00.HHZ)
Median: 0.986
L1 norm: 0.030
Difference in spectral phase
Phase (BK.HELL.00.HNZ- BK.HELL.00.HHZ)
Median: 0.000
L1 norm: 0.030

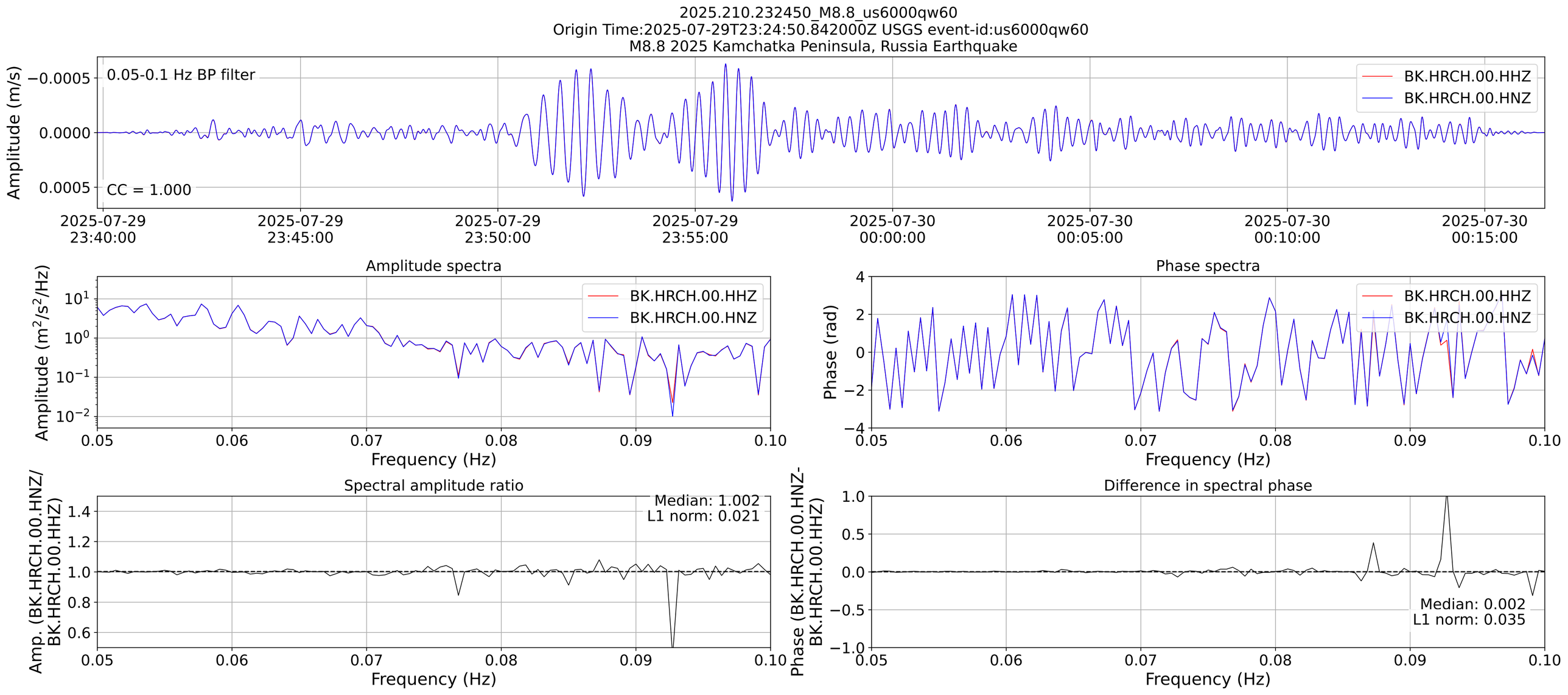

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HOPS.00.HHE
BK.HOPS.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNE/ BK.HOPS.00.HHE)
Median: 1.013
L1 norm: 0.014
Difference in spectral phase
Phase (BK.HOPS.00.HNE- BK.HOPS.00.HHE)
Median: -0.004
L1 norm: 0.014

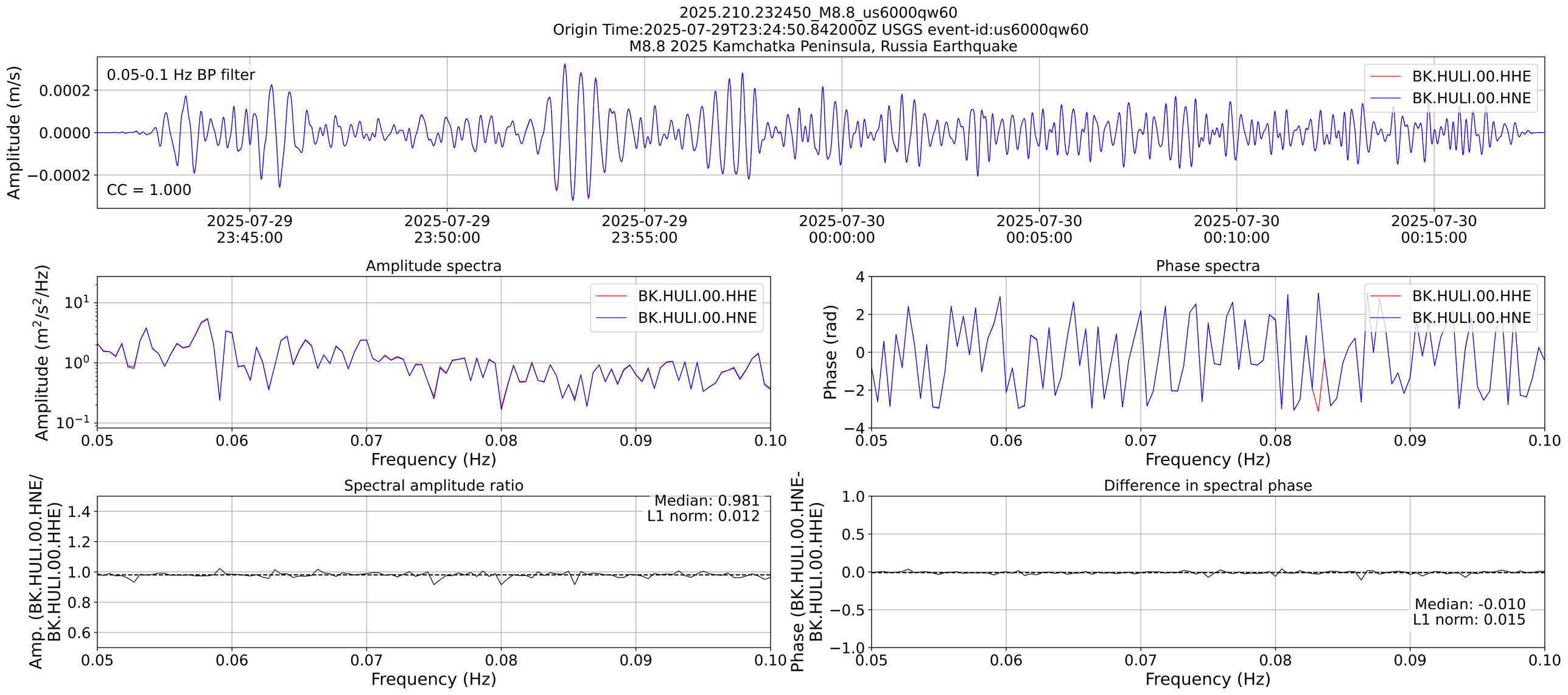

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HOPS.00.HHN
BK.HOPS.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNN/ BK.HOPS.00.HHN)
Median: 1.009
L1 norm: 0.014
Difference in spectral phase
Phase (BK.HOPS.00.HNN- BK.HOPS.00.HHN)
Median: 0.001
L1 norm: 0.013

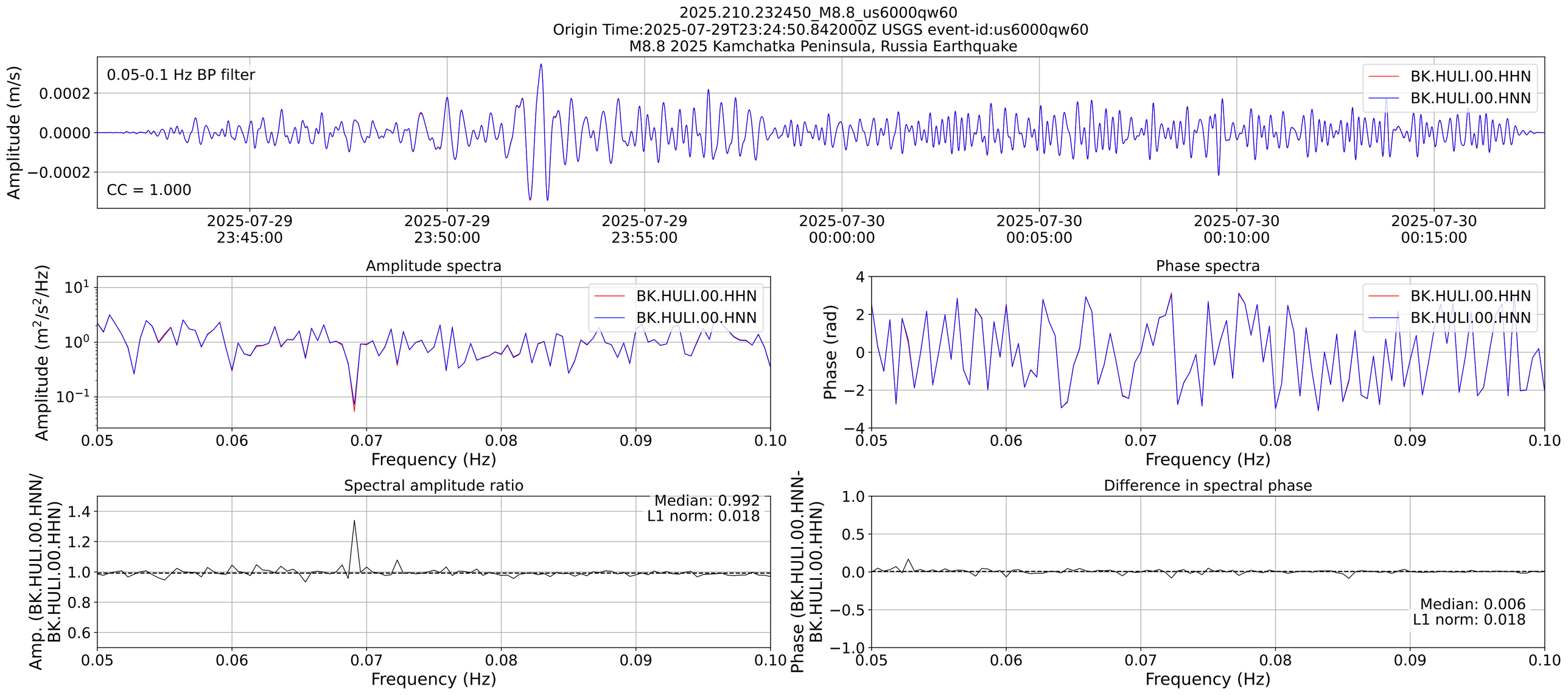

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HOPS.00.HHZ
BK.HOPS.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNZ/ BK.HOPS.00.HHZ)
Median: 1.009
L1 norm: 0.017
Difference in spectral phase
Phase (BK.HOPS.00.HNZ- BK.HOPS.00.HHZ)
Median: -0.000
L1 norm: 0.017

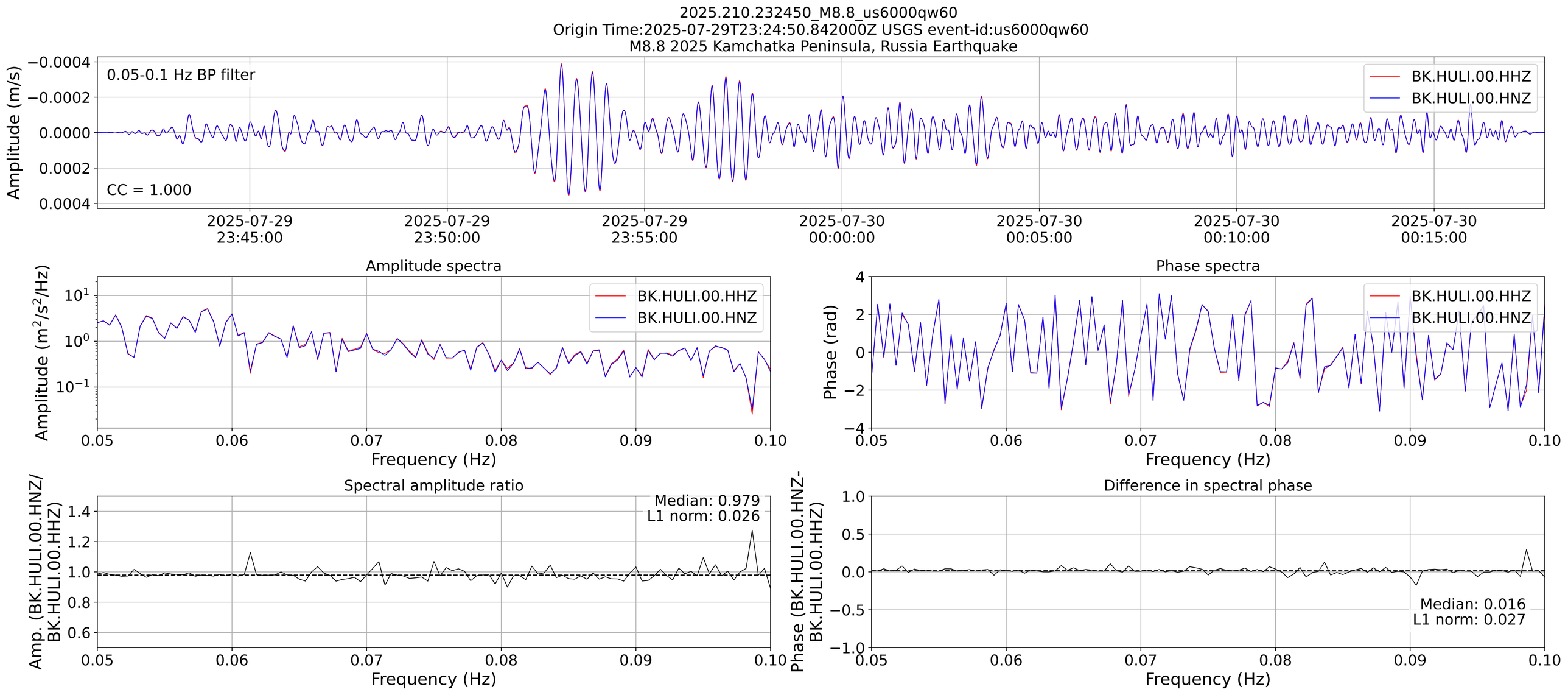

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HRCH.00.HHE
BK.HRCH.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNE/ BK.HRCH.00.HHE)
Median: 0.997
L1 norm: 0.015
Difference in spectral phase
Phase (BK.HRCH.00.HNE- BK.HRCH.00.HHE)
Median: 0.000
L1 norm: 0.015

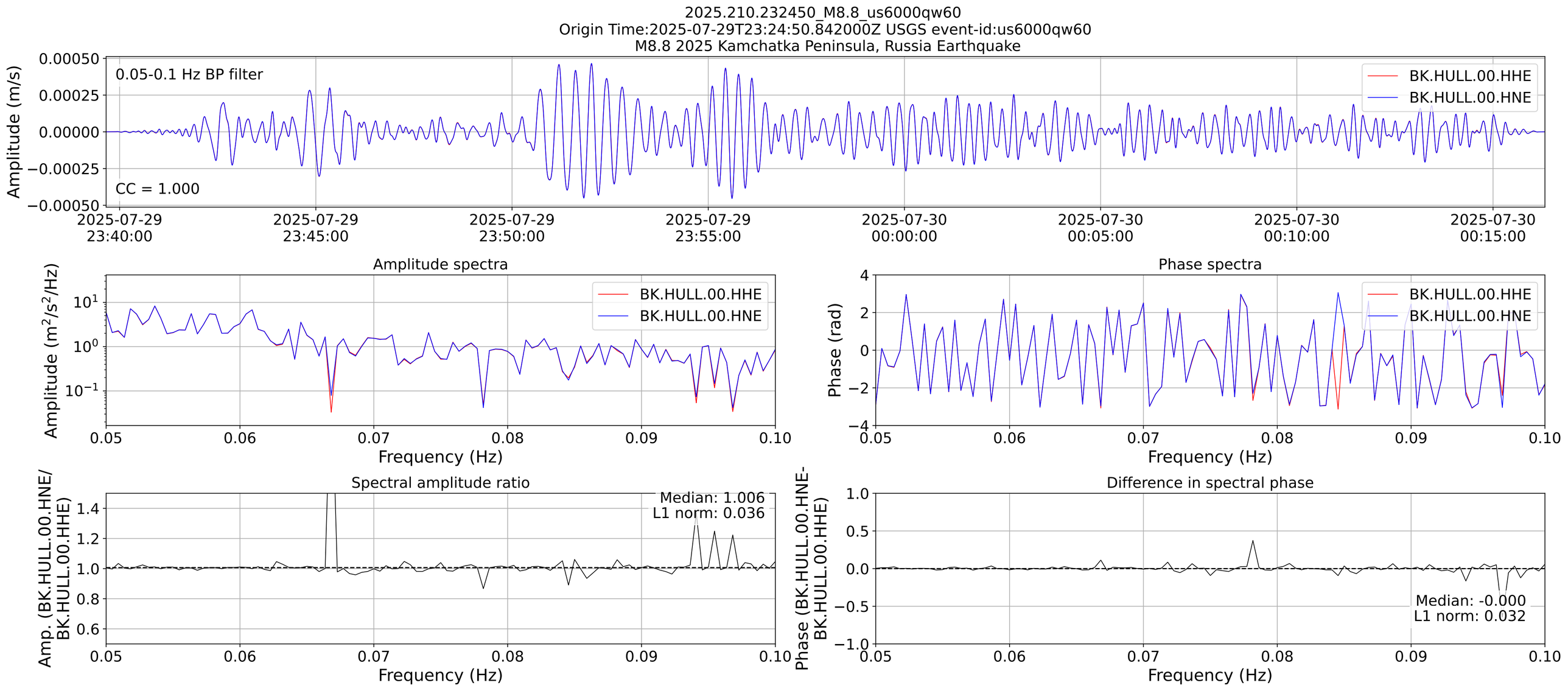

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HRCH.00.HHN
BK.HRCH.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNN/ BK.HRCH.00.HHN)
Median: 0.991
L1 norm: 0.019
Difference in spectral phase
Phase (BK.HRCH.00.HNN- BK.HRCH.00.HHN)
Median: -0.004
L1 norm: 0.013

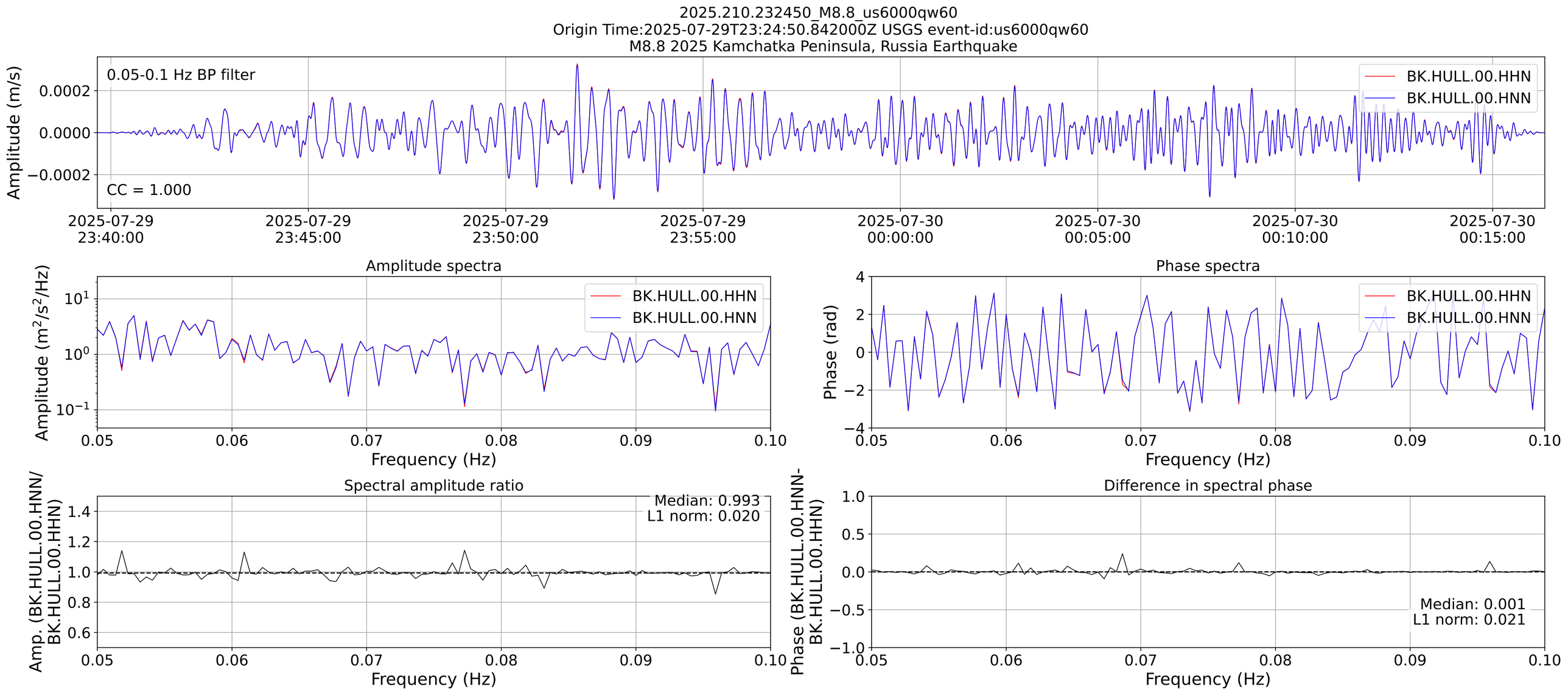

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HRCH.00.HHZ
BK.HRCH.00.HNZ
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNZ/ BK.HRCH.00.HHZ)
Median: 1.002
L1 norm: 0.021
Difference in spectral phase
Phase (BK.HRCH.00.HNZ- BK.HRCH.00.HHZ)
Median: 0.002
L1 norm: 0.035

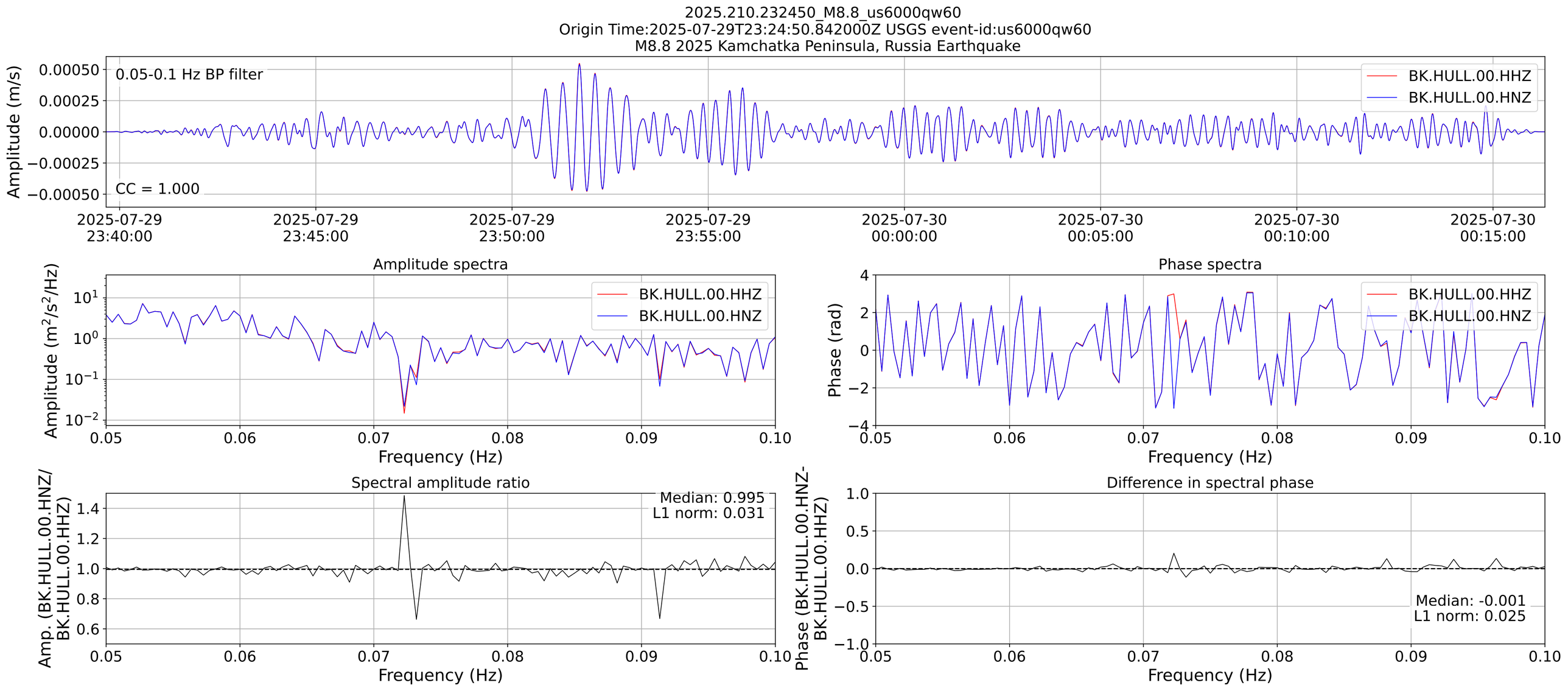

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULI.00.HHE
BK.HULI.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNE/ BK.HULI.00.HHE)
Median: 0.981
L1 norm: 0.012
Difference in spectral phase
Phase (BK.HULI.00.HNE- BK.HULI.00.HHE)
Median: -0.010
L1 norm: 0.015

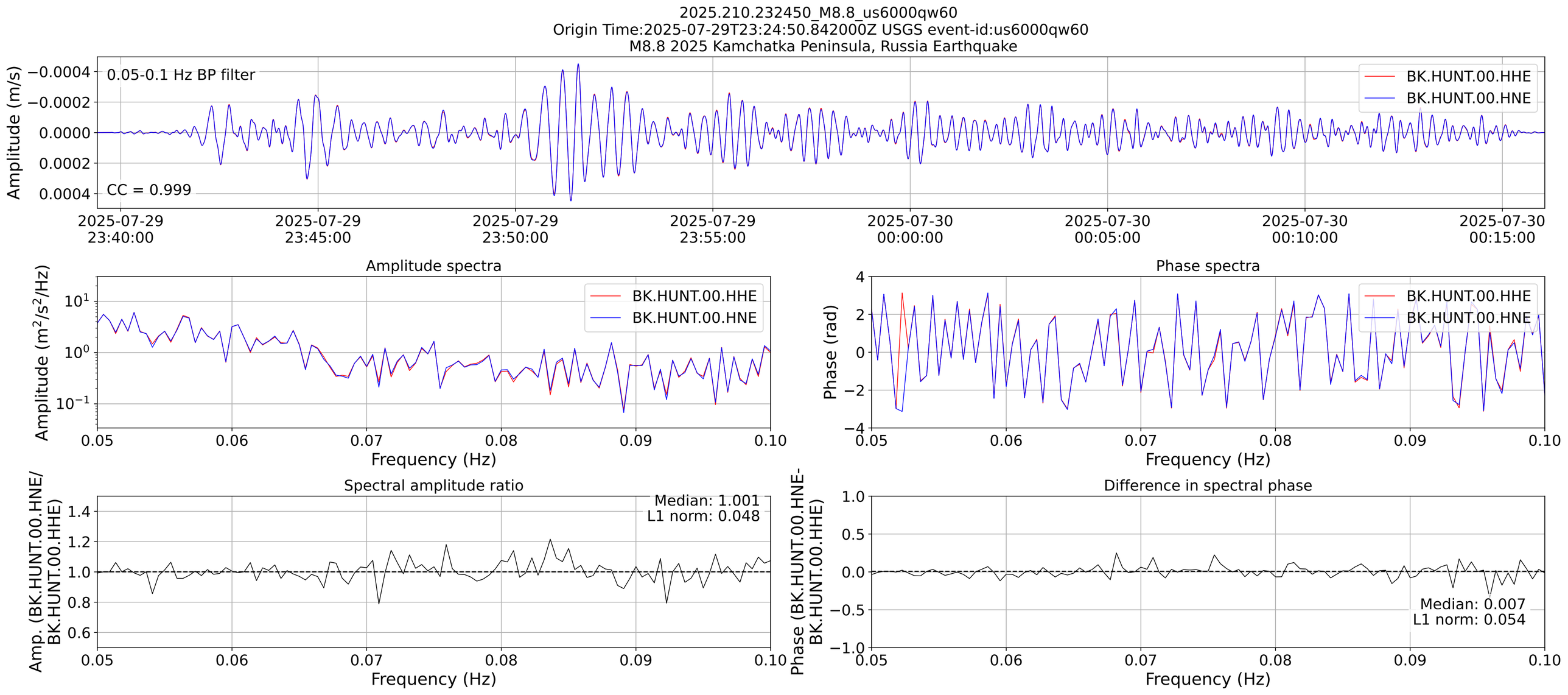

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULI.00.HHN
BK.HULI.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNN/ BK.HULI.00.HHN)
Median: 0.992
L1 norm: 0.018
Difference in spectral phase
Phase (BK.HULI.00.HNN-BK.HULI.00.HHN)
Median: 0.006
L1 norm: 0.018

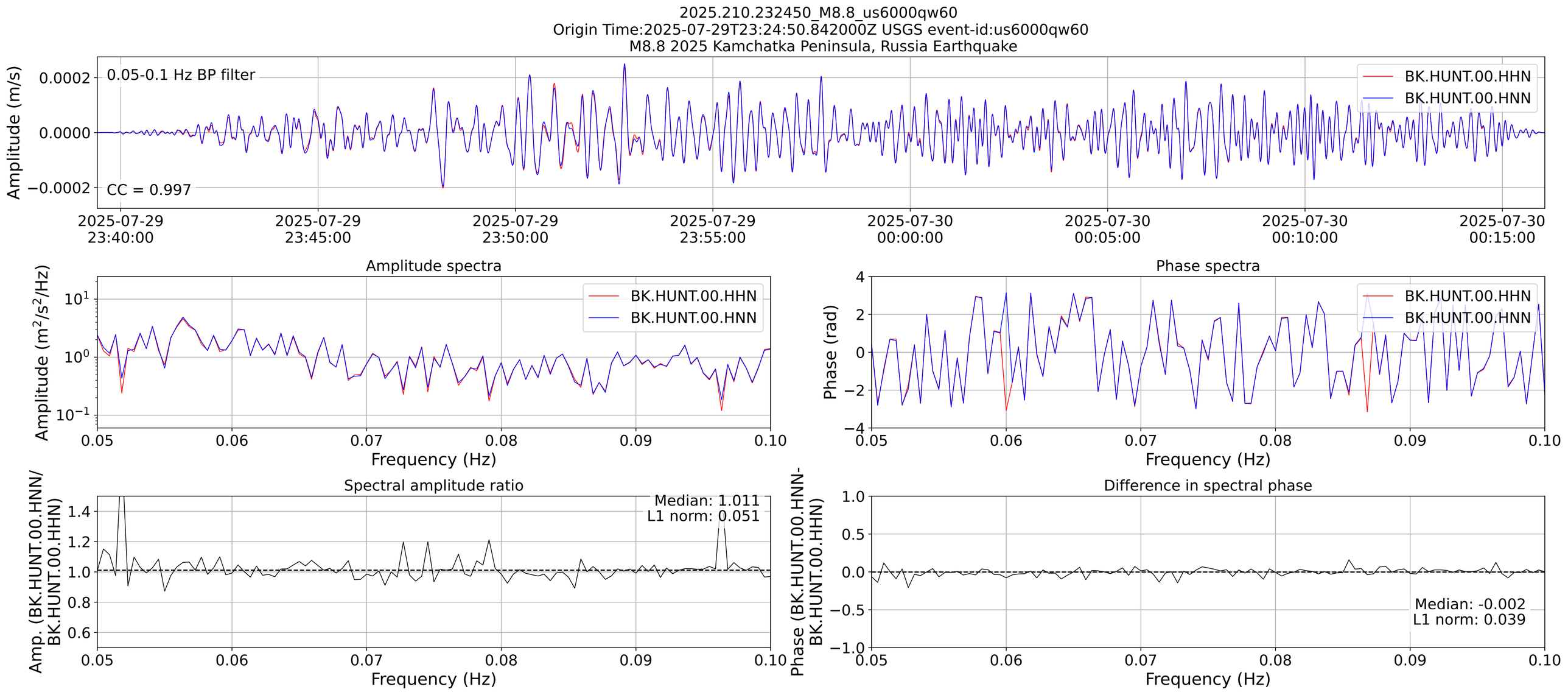

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULI.00.HHZ
BK.HULI.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNZ/ BK.HULI.00.HHZ)
Median: 0.979
L1 norm: 0.026
Difference in spectral phase
Phase (BK.HULI.00.HNZ- BK.HULI.00.HHZ)
Median: 0.016
L1 norm: 0.027

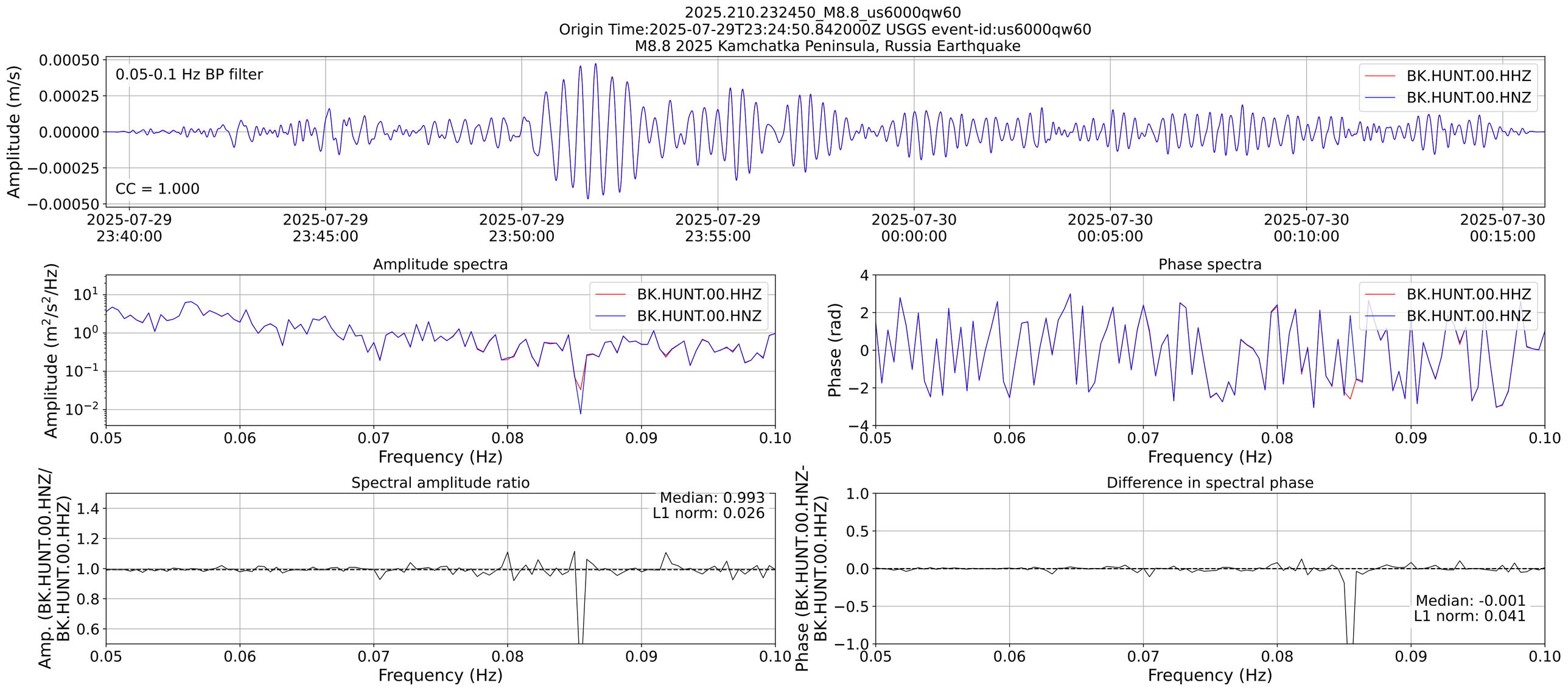

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULL.00.HHE
BK.HULL.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNE/ BK.HULL.00.HHE)
Median: 1.006
L1 norm: 0.036
Difference in spectral phase
Phase (BK.HULL.00.HNE- BK.HULL.00.HHE)
Median: -0.000
L1 norm: 0.032

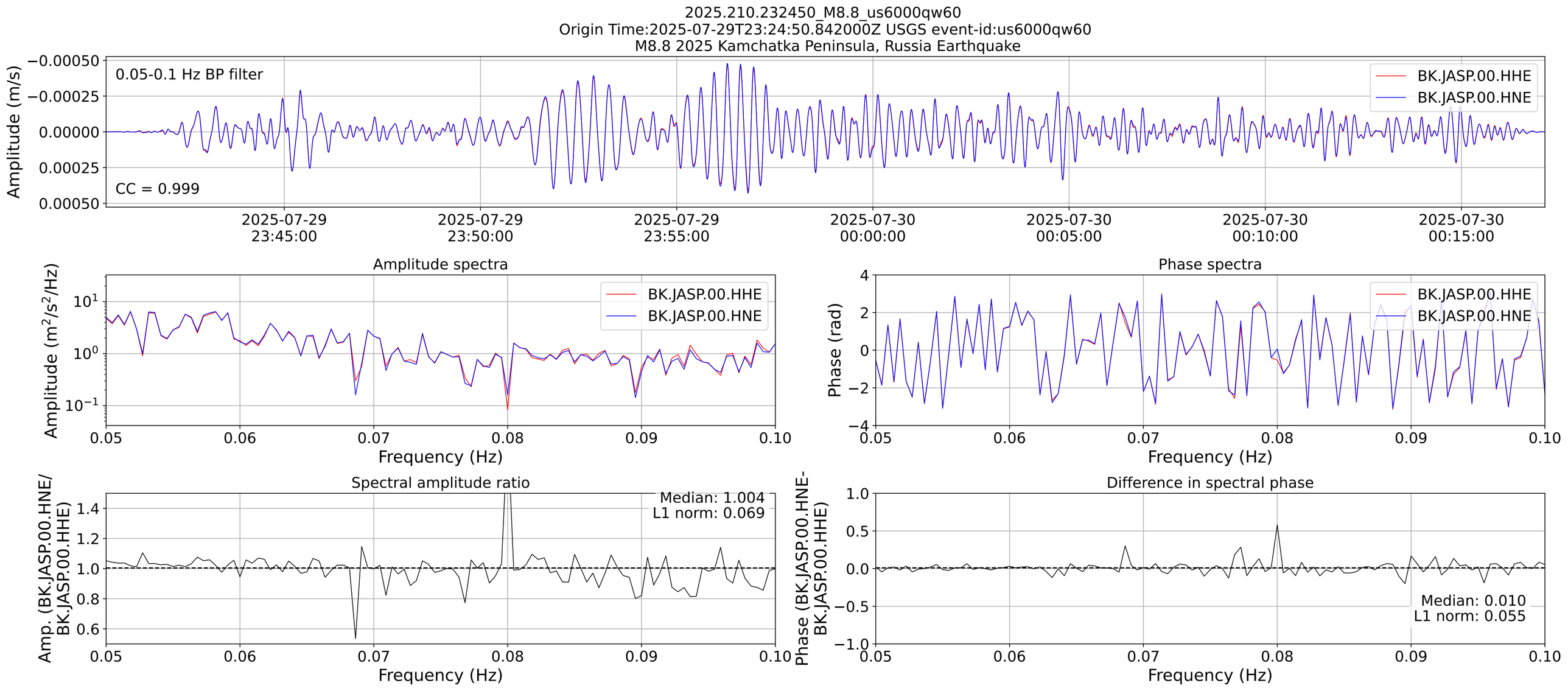

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULL.00.HHN
BK.HULL.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNN/ BK.HULL.00.HHN)
Median: 0.993
L1 norm: 0.020
Difference in spectral phase
Phase (BK.HULL.00.HNN- BK.HULL.00.HHN)
Median: 0.001
L1 norm: 0.021

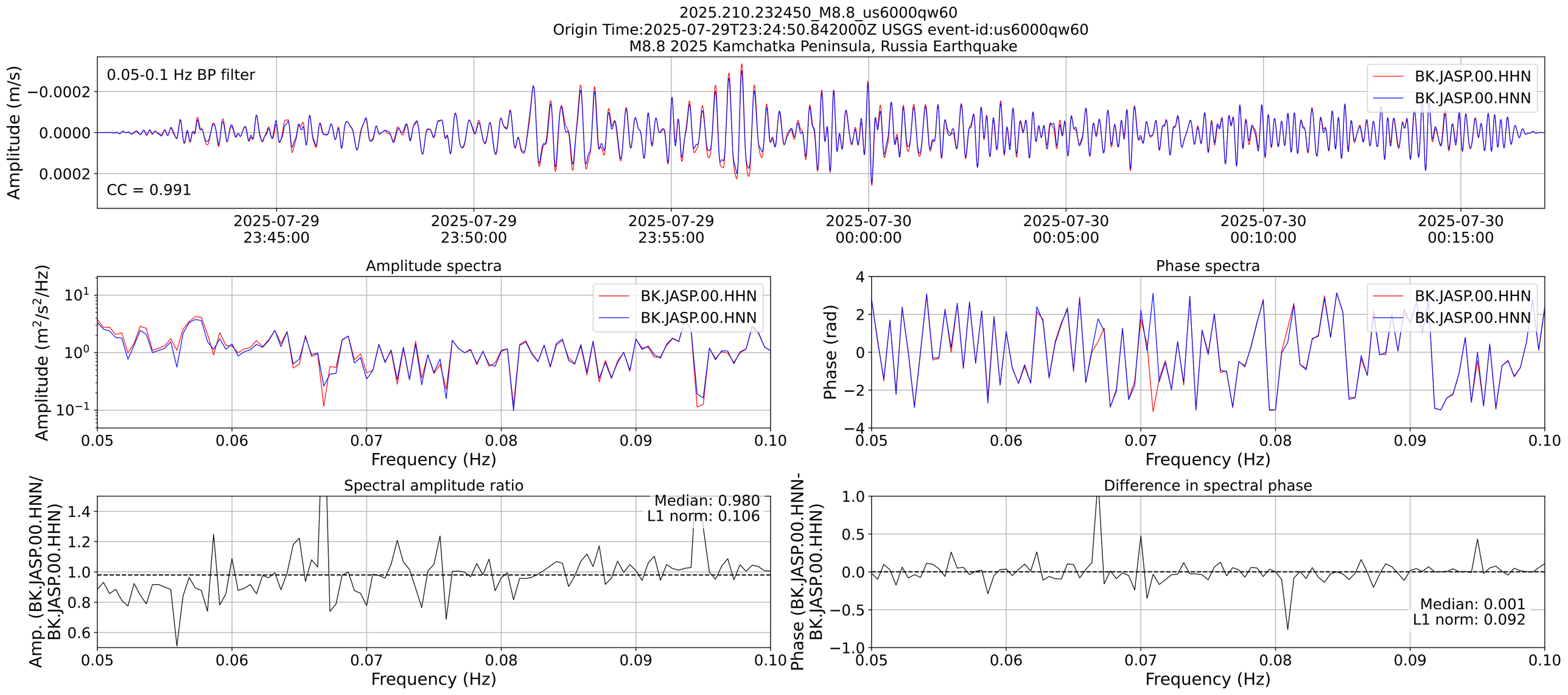

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HULL.00.HHZ
BK.HULL.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNZ/ BK.HULL.00.HHZ)
Median: 0.995
L1 norm: 0.031
Difference in spectral phase
Phase (BK.HULL.00.HNZ- BK.HULL.00.HHZ)
Median: -0.001
L1 norm: 0.025

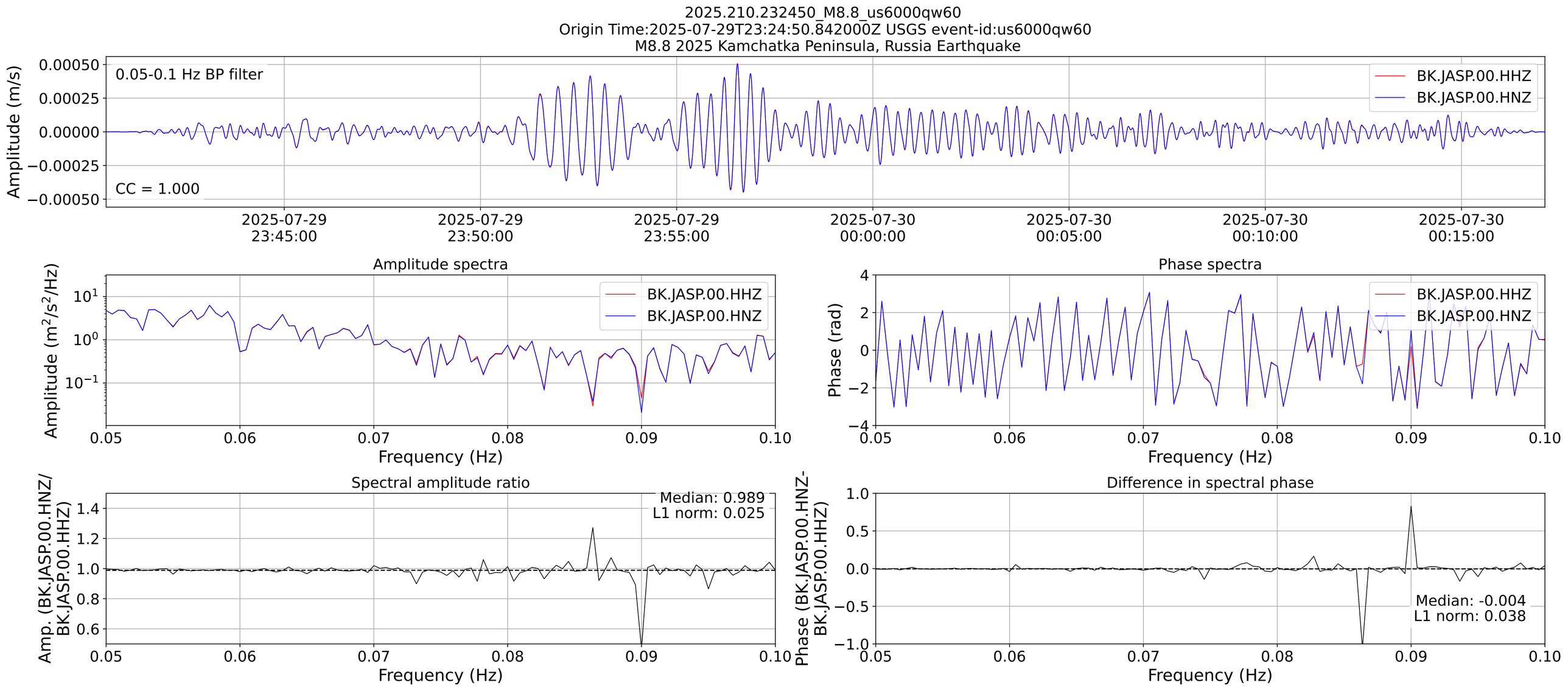

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.HUNT.00.HHE
BK.HUNT.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNE/ BK.HUNT.00.HHE)
Median: 1.001
L1 norm: 0.048
Difference in spectral phase
Phase (BK.HUNT.00.HNE- BK.HUNT.00.HHE)
Median: 0.007
L1 norm: 0.054

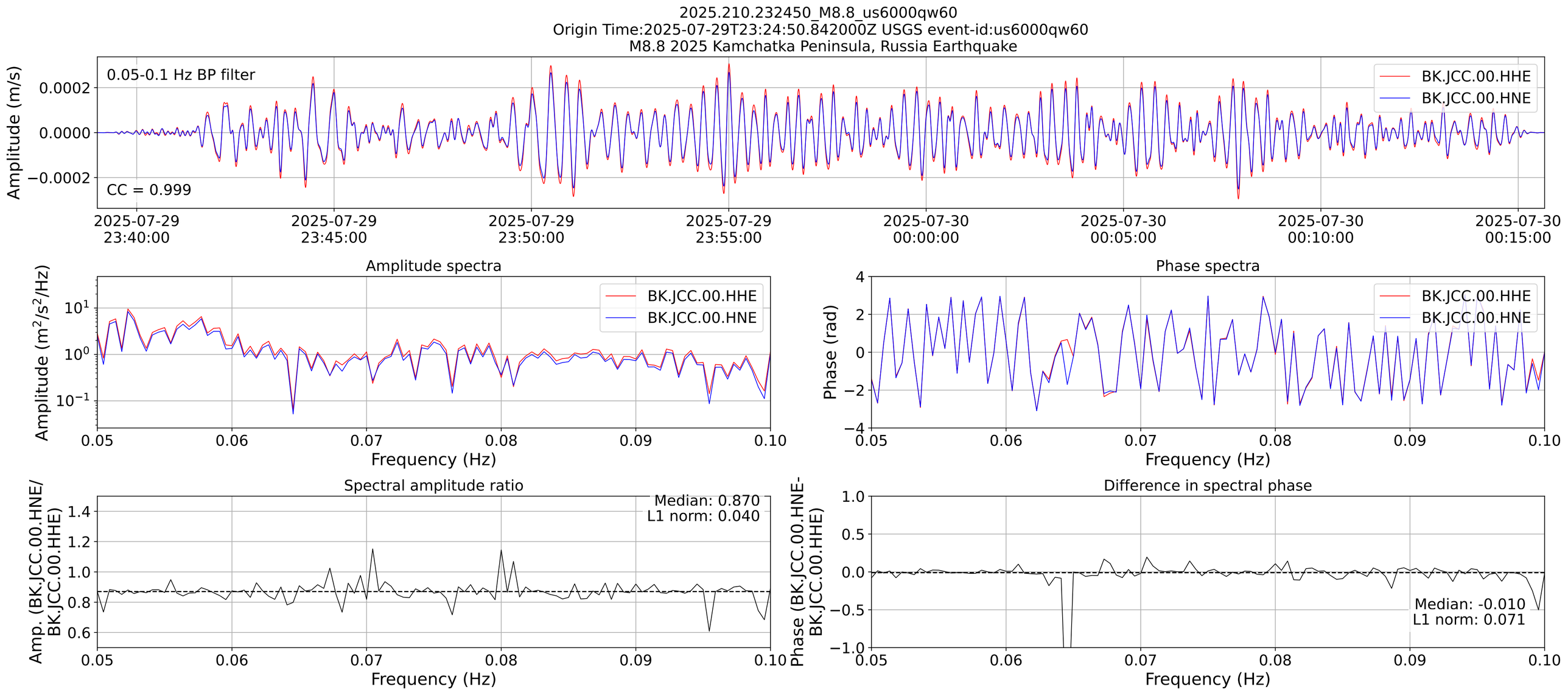

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.HUNT.00.HHN
BK.HUNT.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNN/ BK.HUNT.00.HHN)
Median: 1.011
L1 norm: 0.051
Difference in spectral phase
Phase (BK.HUNT.00.HNN- BK.HUNT.00.HHN)
Median: -0.002
L1 norm: 0.039

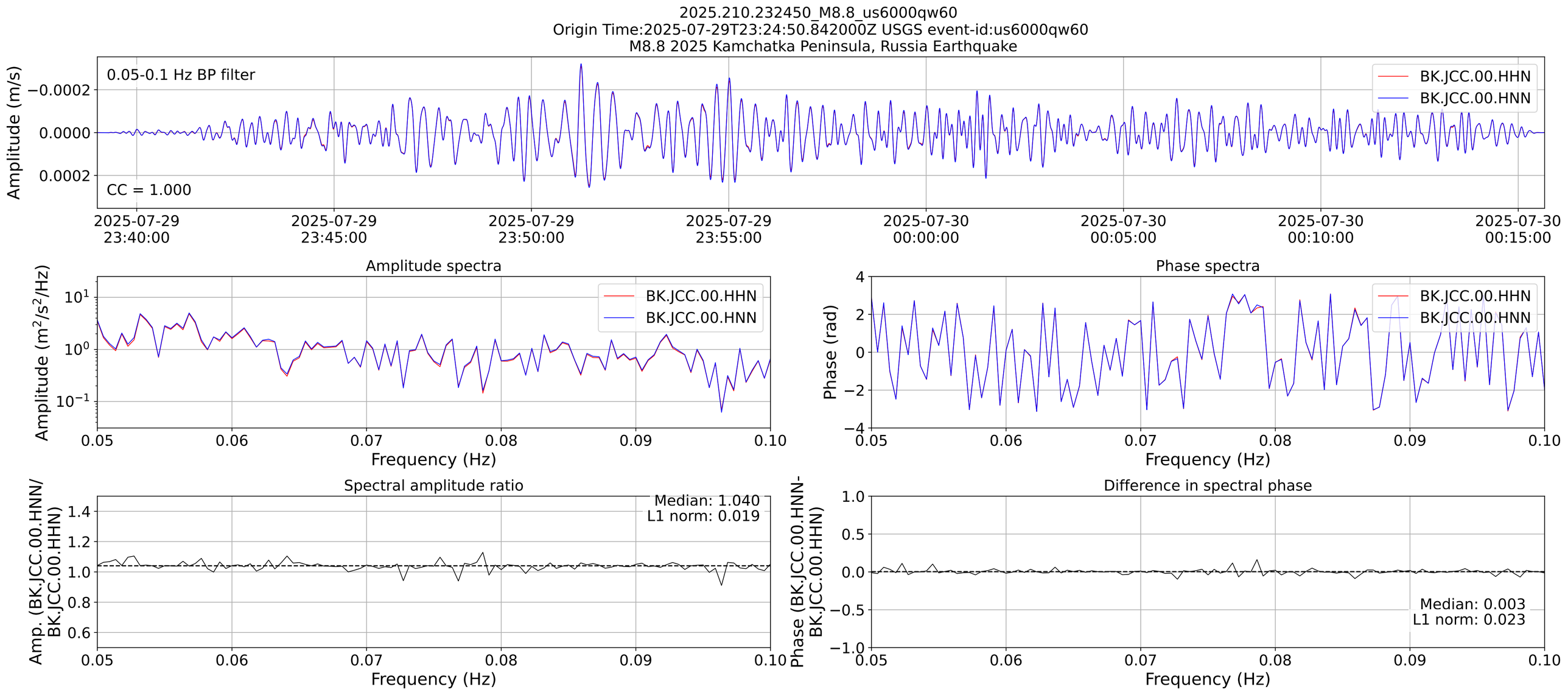

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.HUNT.00.HHZ
BK.HUNT.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNZ/ BK.HUNT.00.HHZ)
Median: 0.993
L1 norm: 0.026
Difference in spectral phase
Phase (BK.HUNT.00.HNZ- BK.HUNT.00.HHZ)
Median: -0.001
L1 norm: 0.041

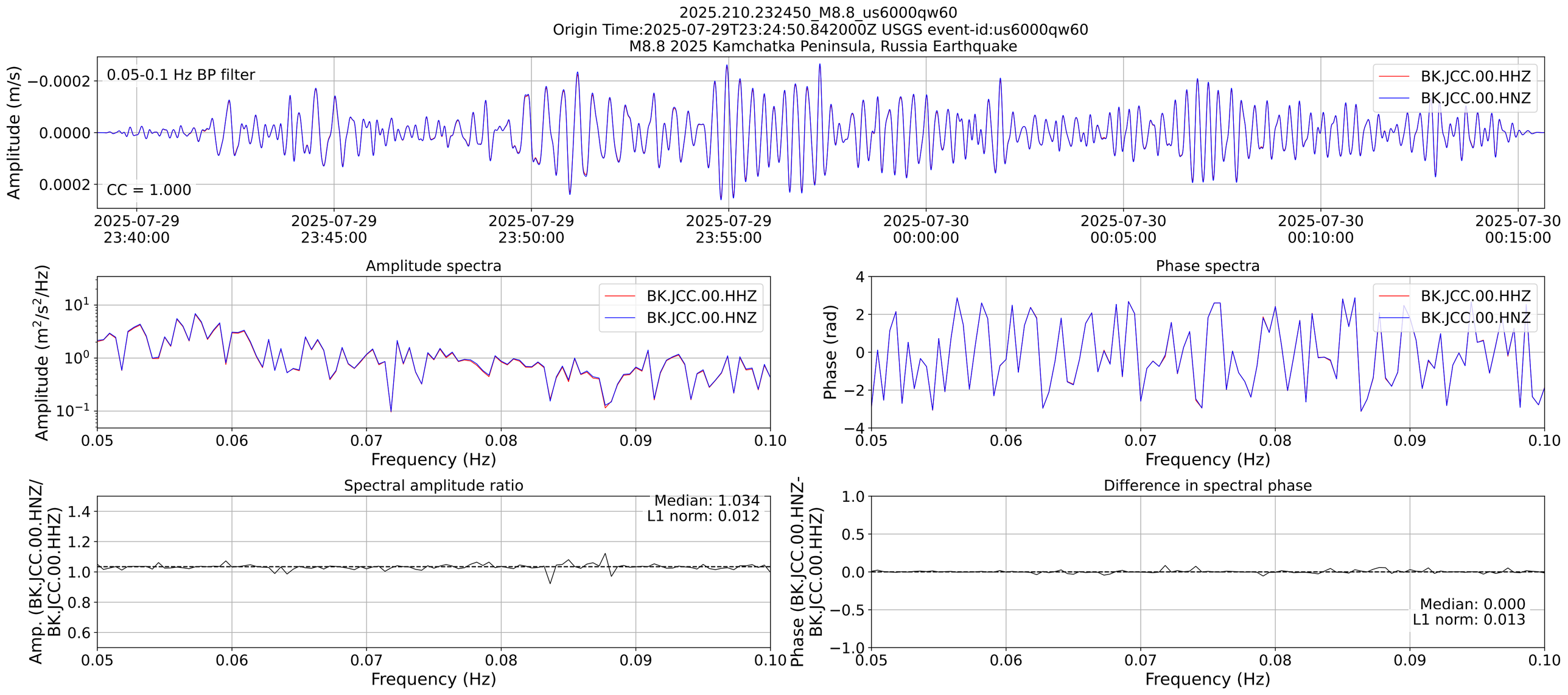

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.JASP.00.HHE
BK.JASP.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNE/ BK.JASP.00.HHE)
Median: 1.004
L1 norm: 0.069
Difference in spectral phase
Phase (BK.JASP.00.HNE- BK.JASP.00.HHE)
Median: 0.010
L1 norm: 0.055

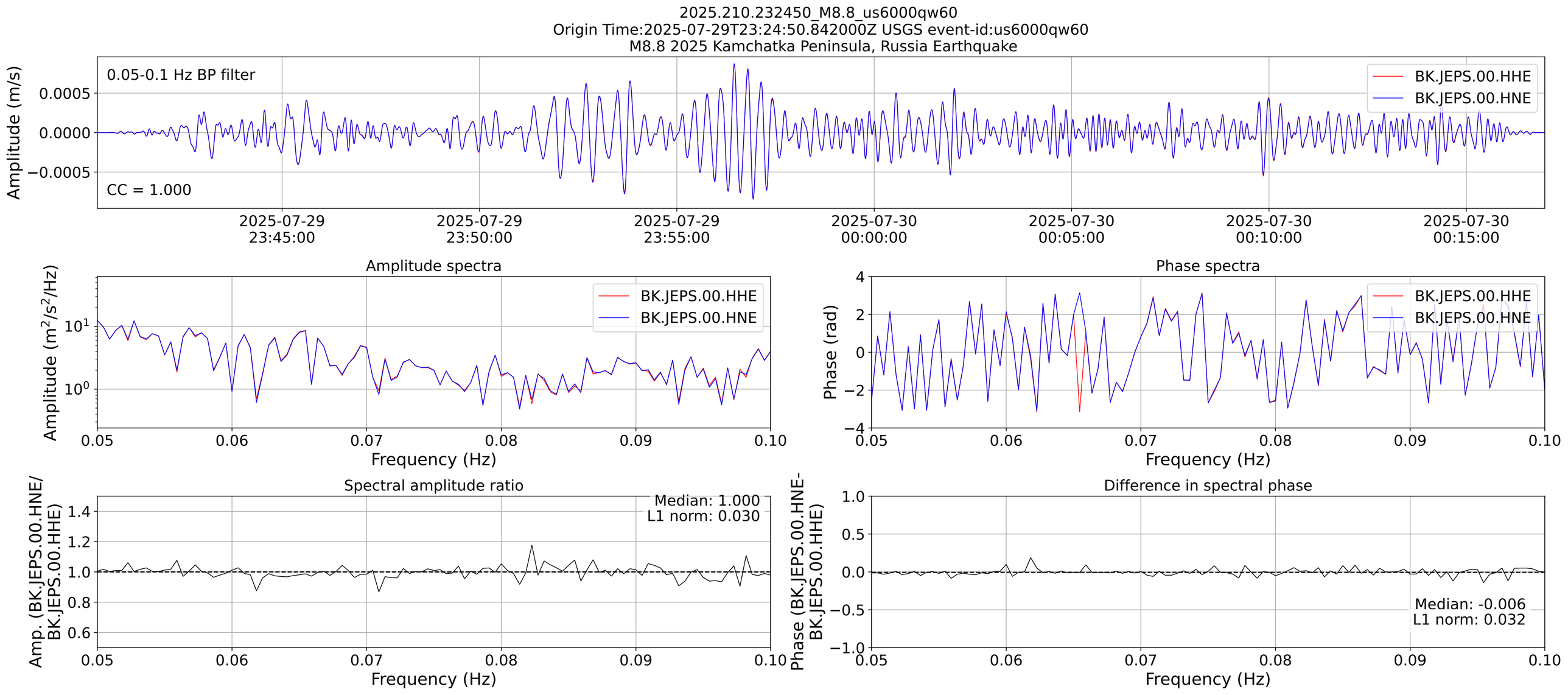

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.991
BK.JASP.00.HHN
BK.JASP.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNN/ BK.JASP.00.HHN)
Median: 0.980
L1 norm: 0.106
Difference in spectral phase
Phase (BK.JASP.00.HNN- BK.JASP.00.HHN)
Median: 0.001
L1 norm: 0.092

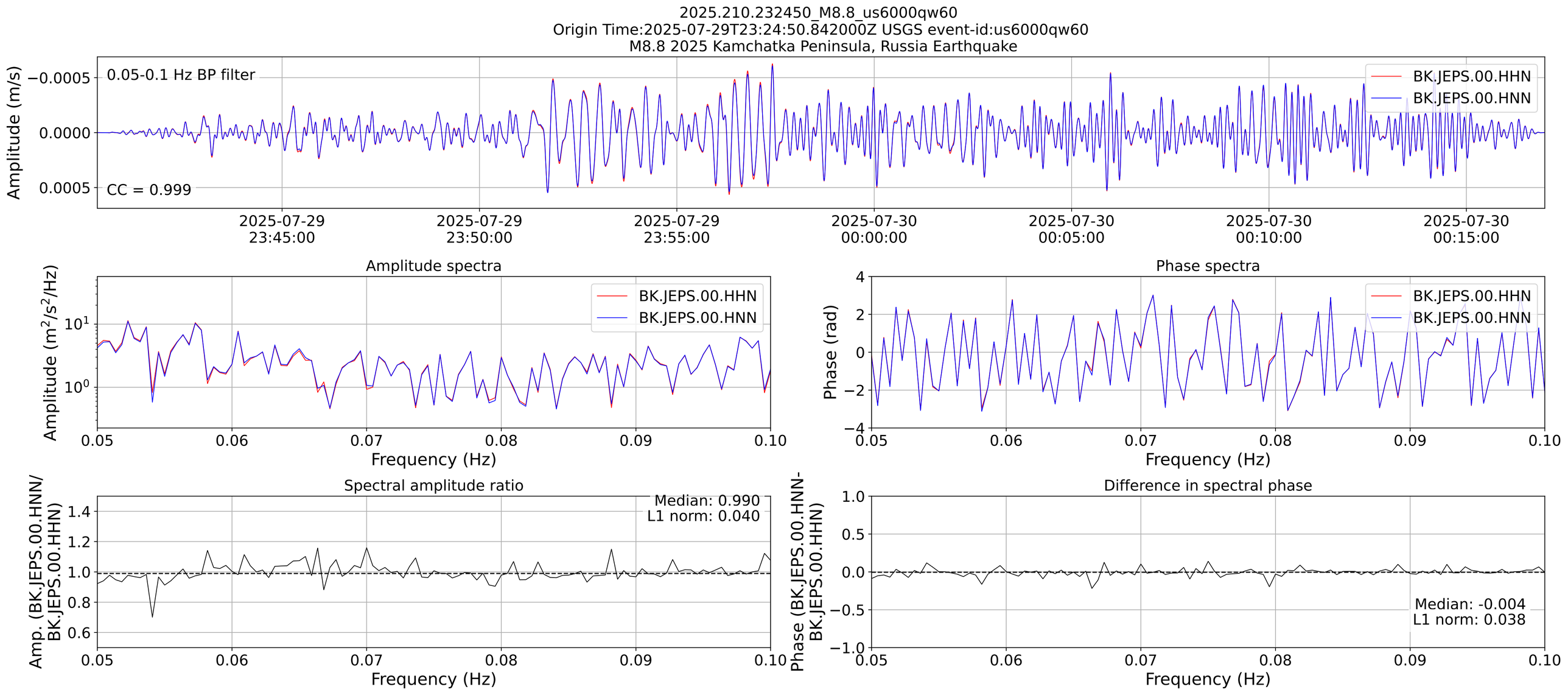

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JASP.00.HHZ
BK.JASP.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNZ/ BK.JASP.00.HHZ)
Median: 0.989
L1 norm: 0.025
Difference in spectral phase
Phase (BK.JASP.00.HNZ- BK.JASP.00.HHZ)
Median: -0.004
L1 norm: 0.038

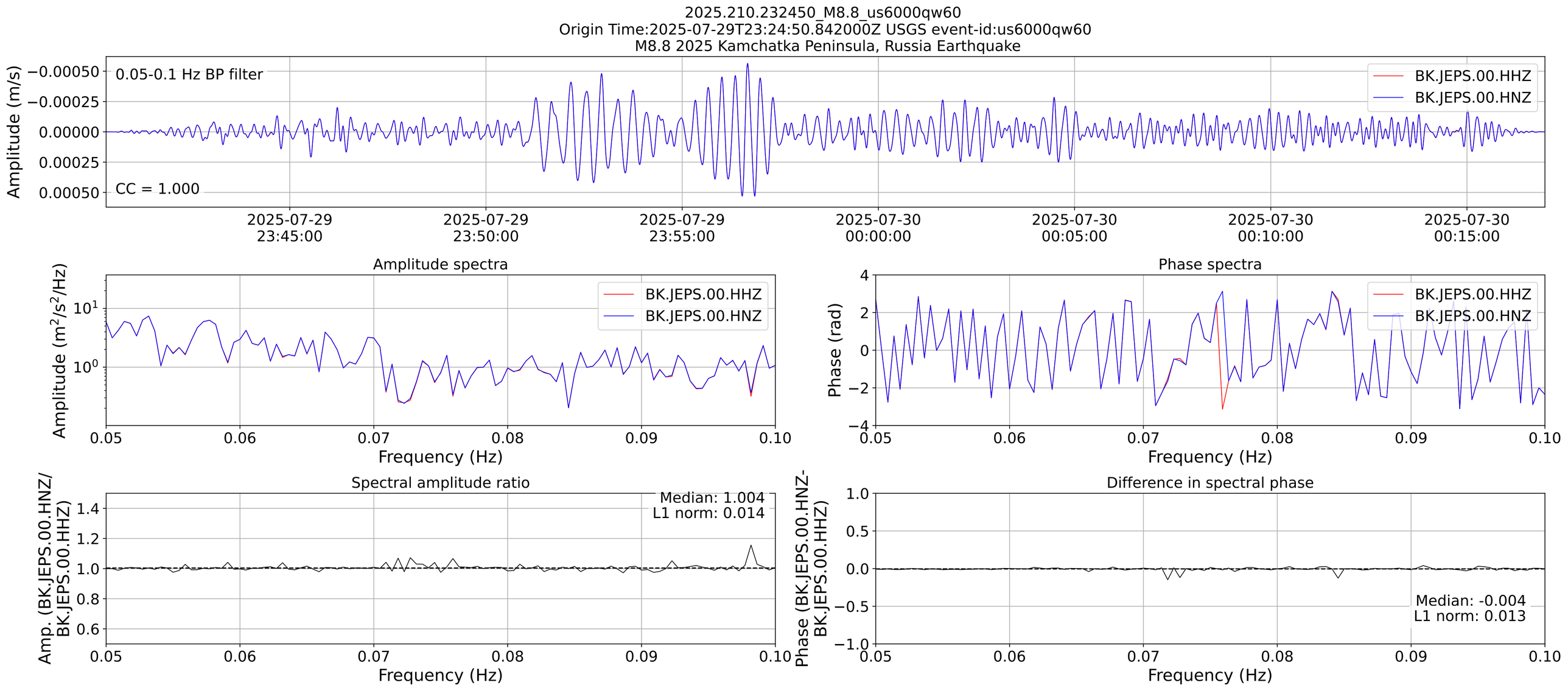

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.JCC.00.HHE
BK.JCC.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNE/ BK.JCC.00.HHE)
Median: 0.870
L1 norm: 0.040
Difference in spectral phase
Phase (BK.JCC.00.HNE- BK.JCC.00.HHE)
Median: -0.010
L1 norm: 0.071

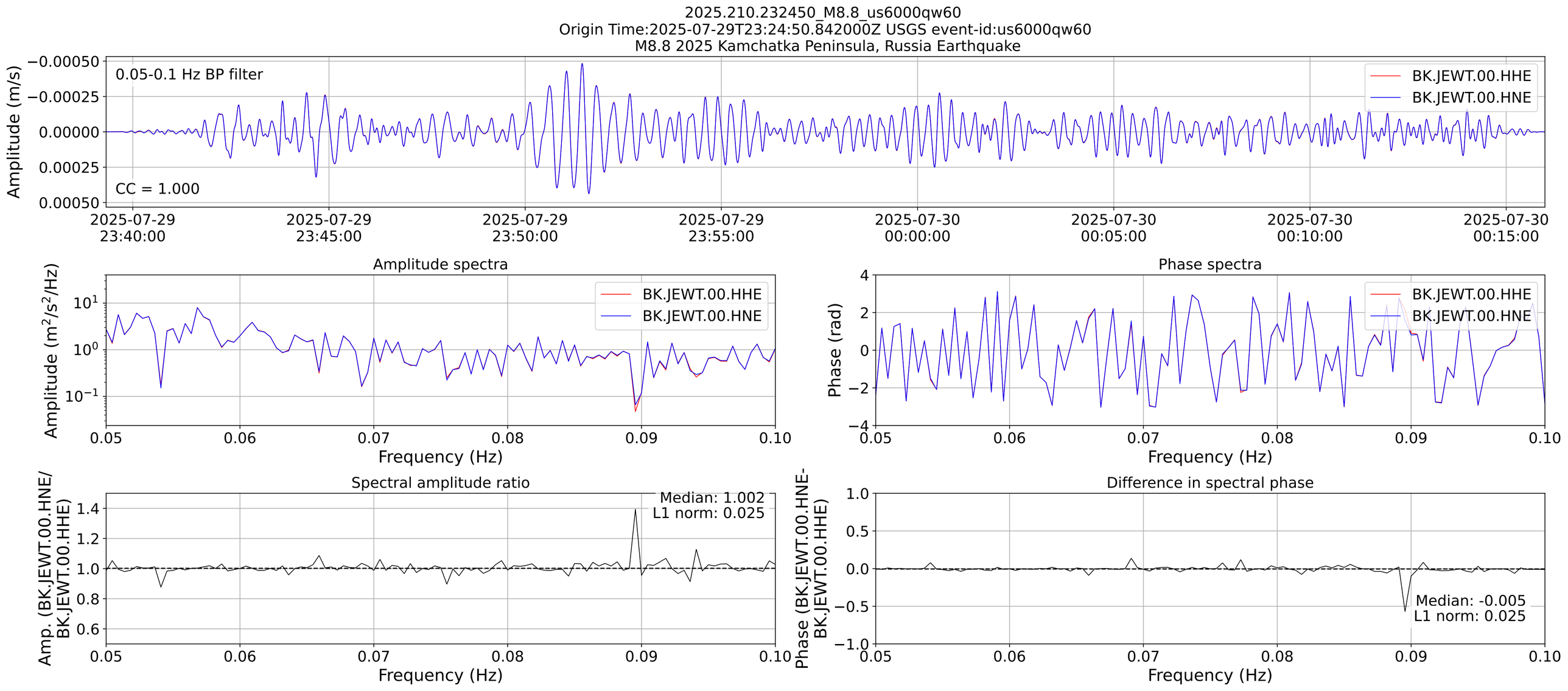

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JCC.00.HHN
BK.JCC.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNN/ BK.JCC.00.HHN)
Median: 1.040
L1 norm: 0.019
Difference in spectral phase
Phase (BK.JCC.00.HNN- BK.JCC.00.HHN)
Median: 0.003
L1 norm: 0.023

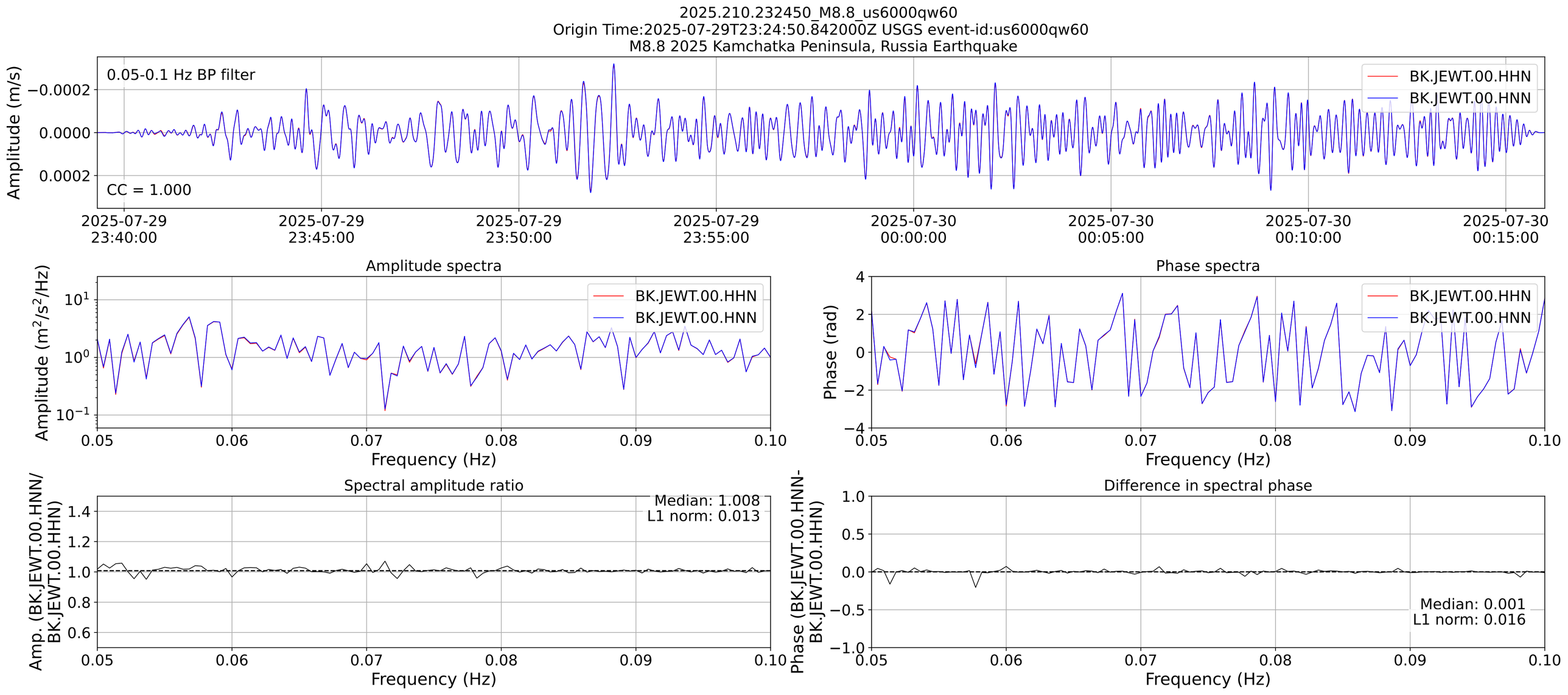

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JCC.00.HHZ
BK.JCC.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNZ/ BK.JCC.00.HHZ)
Median: 1.034
L1 norm: 0.012
Difference in spectral phase
Phase (BK.JCC.00.HNZ- BK.JCC.00.HHZ)
Median: 0.000
L1 norm: 0.013

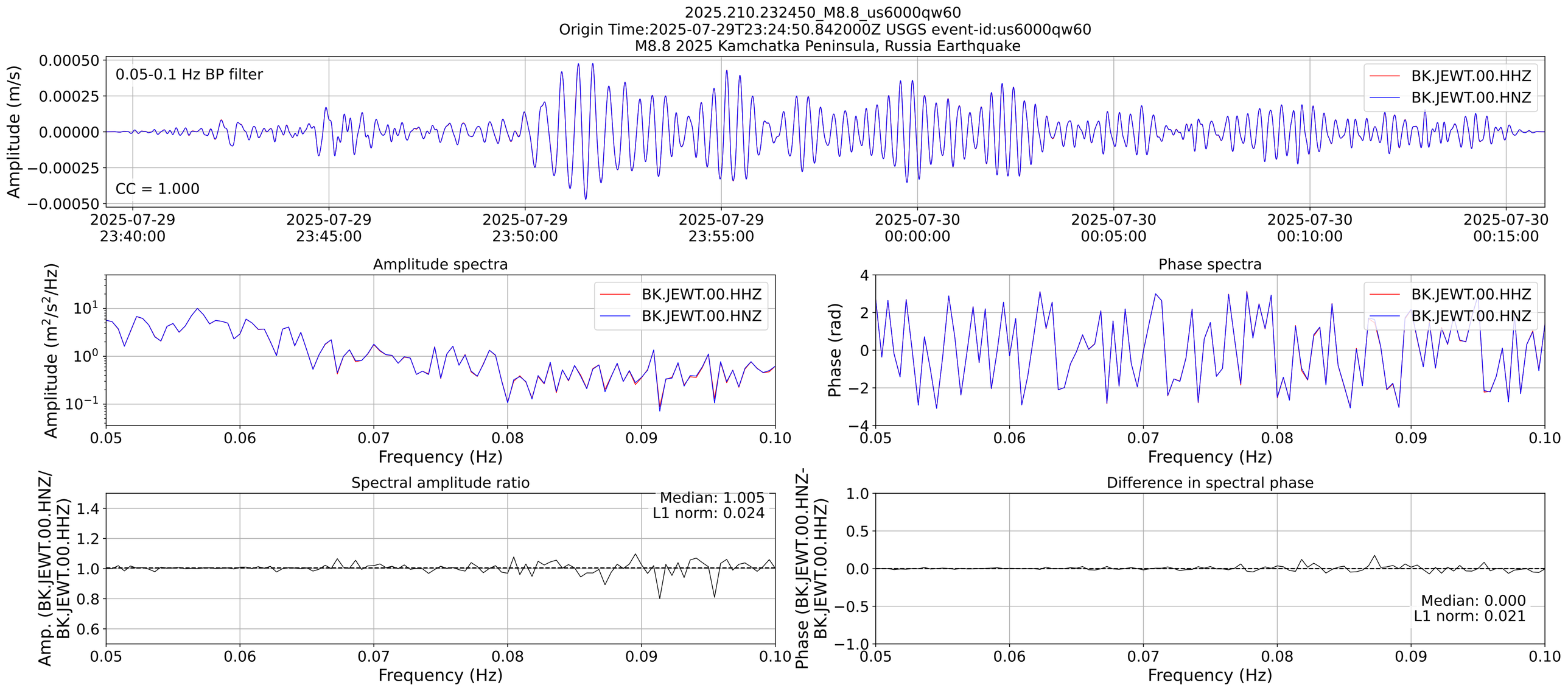

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JEPS.00.HHE
BK.JEPS.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNE/ BK.JEPS.00.HHE)
Median: 1.000
L1 norm: 0.030
Difference in spectral phase
Phase (BK.JEPS.00.HNE- BK.JEPS.00.HHE)
Median: -0.006
L1 norm: 0.032

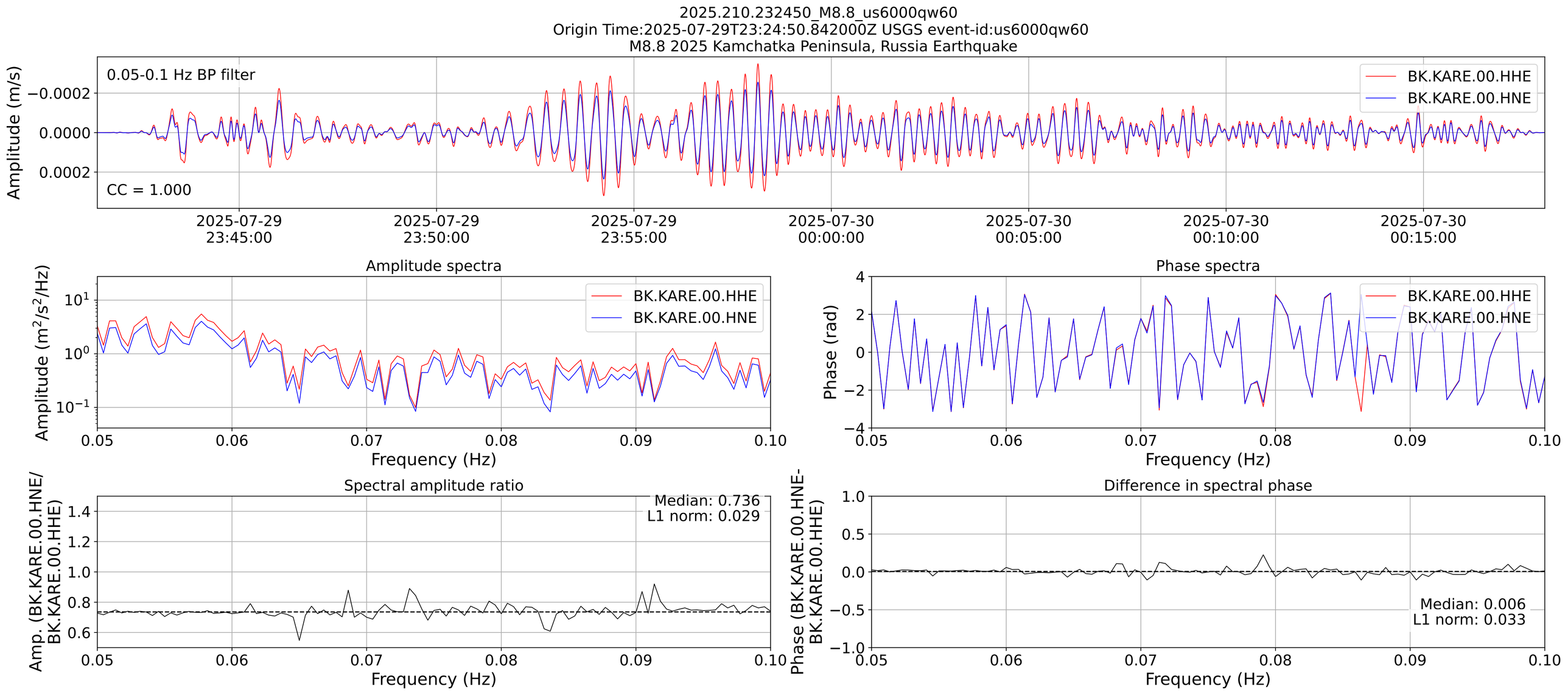

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.JEPS.00.HHN
BK.JEPS.00.HNN
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNN/ BK.JEPS.00.HHN)
Median: 0.990
L1 norm: 0.040
Difference in spectral phase
Phase (BK.JEPS.00.HNN- BK.JEPS.00.HHN)
Median: -0.004
L1 norm: 0.038

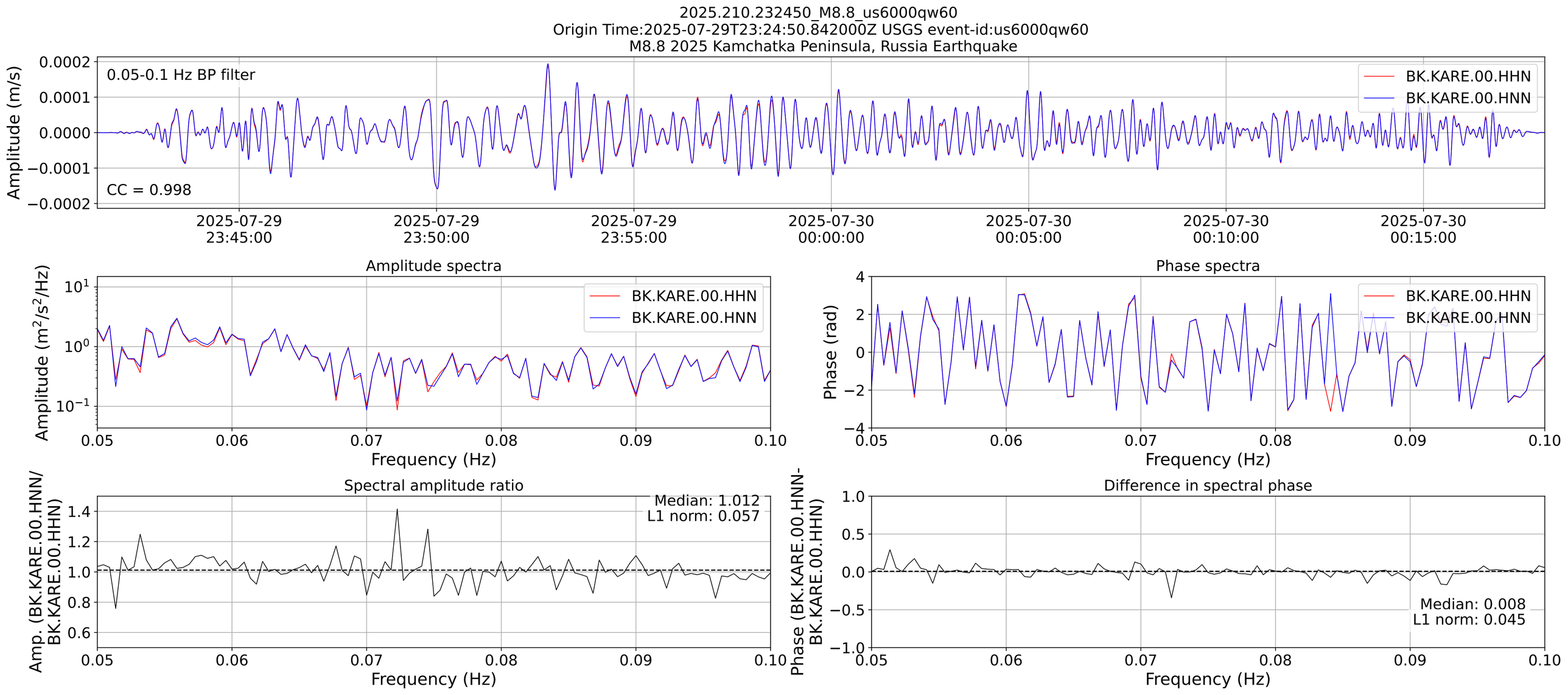

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JEPS.00.HHZ
BK.JEPS.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNZ/ BK.JEPS.00.HHZ)
Median: 1.004
L1 norm: 0.014
Difference in spectral phase
Phase (BK.JEPS.00.HNZ- BK.JEPS.00.HHZ)
Median: -0.004
L1 norm: 0.013

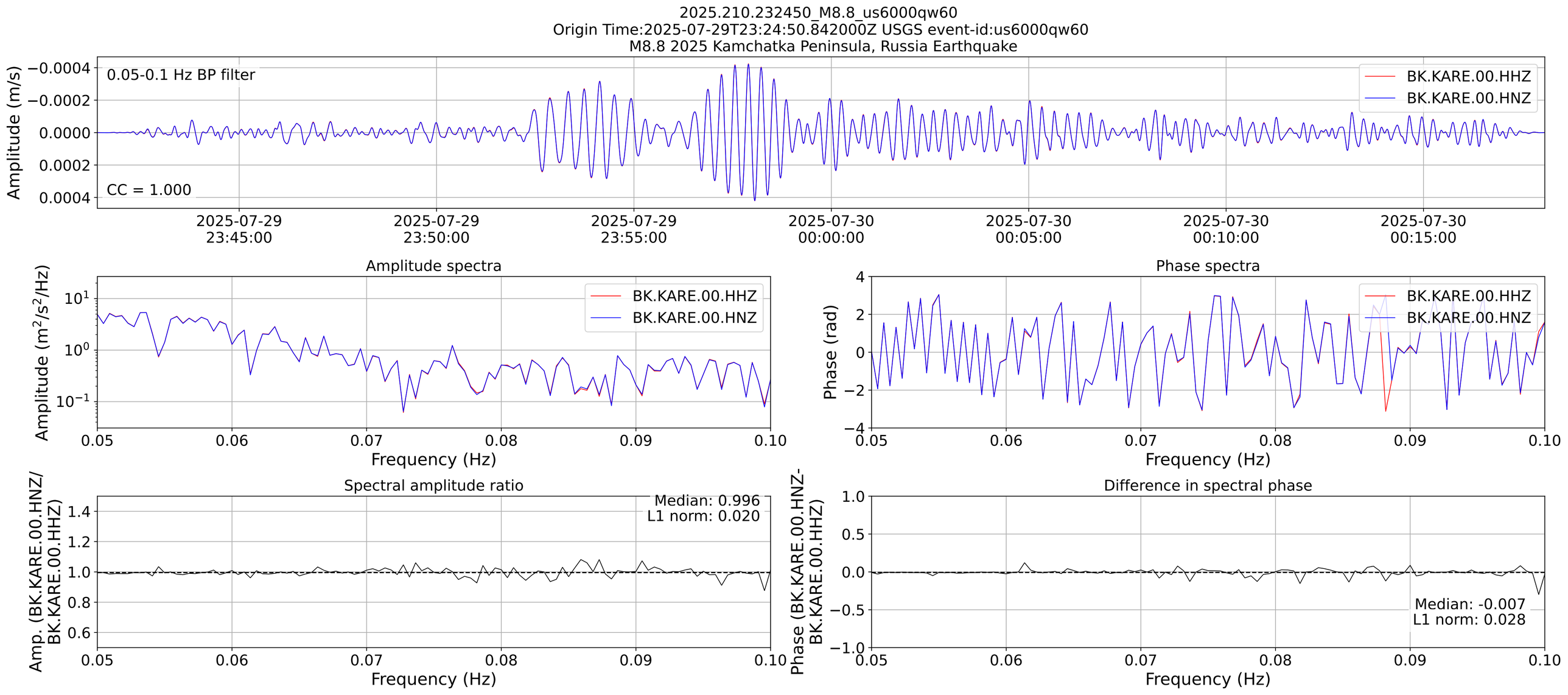

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JEWT.00.HHE
BK.JEWT.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNE/ BK.JEWT.00.HHE)
Median: 1.002
L1 norm: 0.025
Difference in spectral phase
Phase (BK.JEWT.00.HNE- BK.JEWT.00.HHE)
Median: -0.005
L1 norm: 0.025

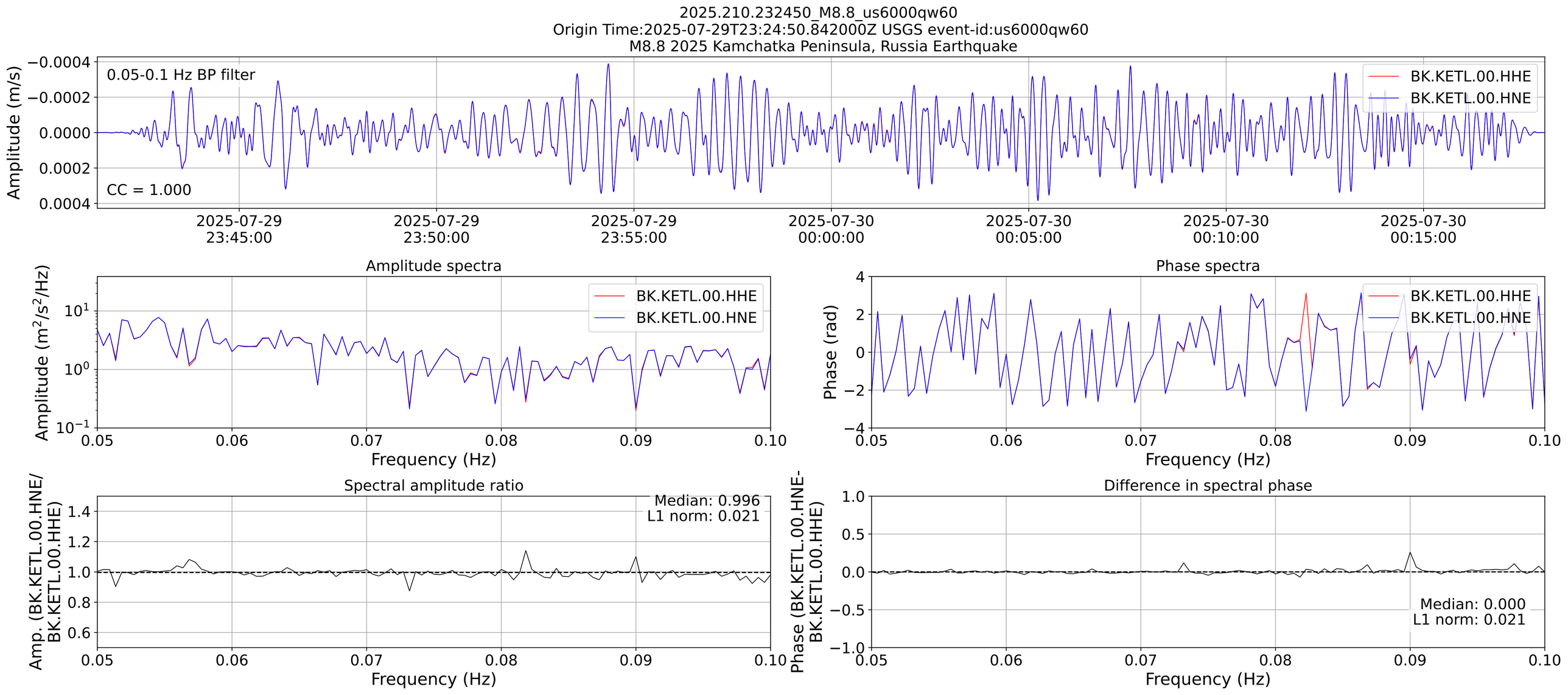

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JEWT.00.HHN
BK.JEWT.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNN/ BK.JEWT.00.HHN)
Median: 1.008
L1 norm: 0.013
Difference in spectral phase
Phase (BK.JEWT.00.HNN- BK.JEWT.00.HHN)
Median: 0.001
L1 norm: 0.016

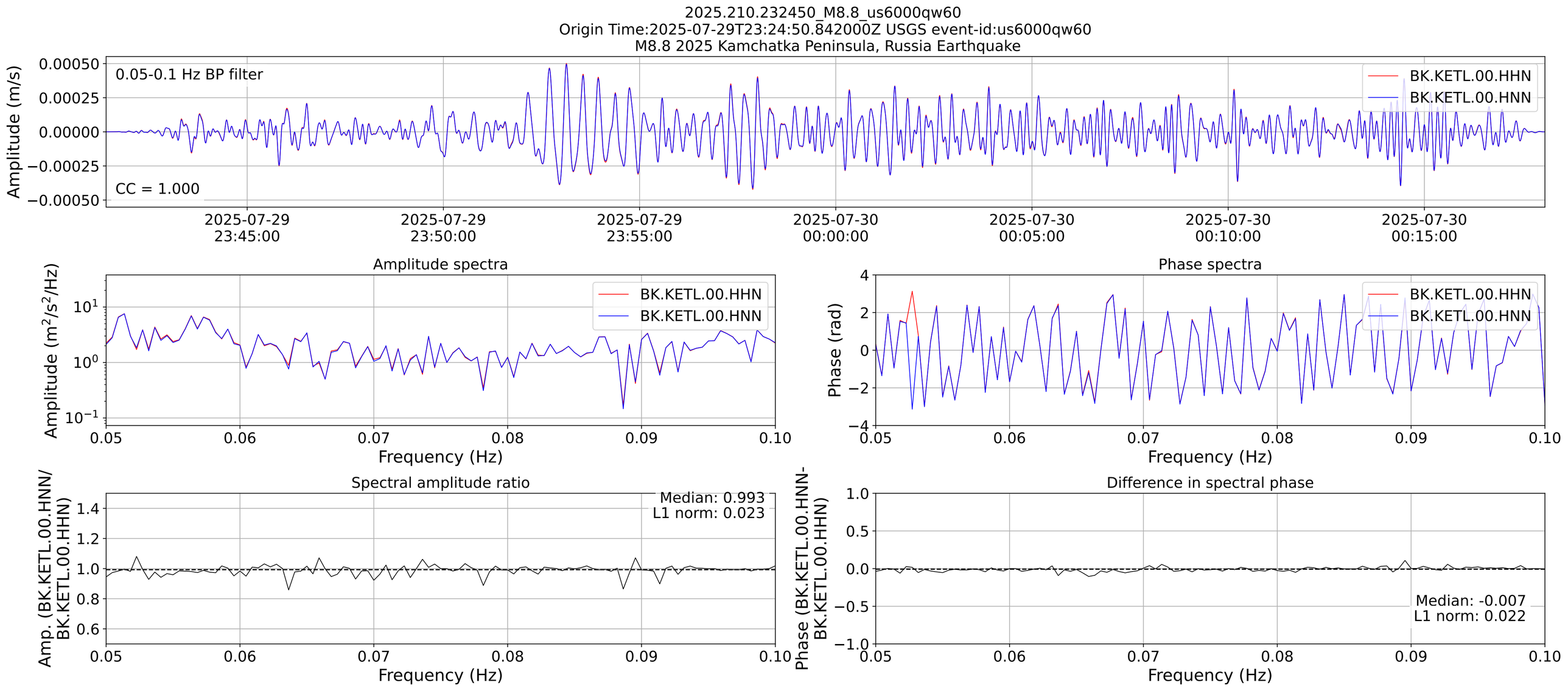

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.JEWT.00.HHZ
BK.JEWT.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNZ/ BK.JEWT.00.HHZ)
Median: 1.005
L1 norm: 0.024
Difference in spectral phase
Phase (BK.JEWT.00.HNZ- BK.JEWT.00.HHZ)
Median: 0.000
L1 norm: 0.021

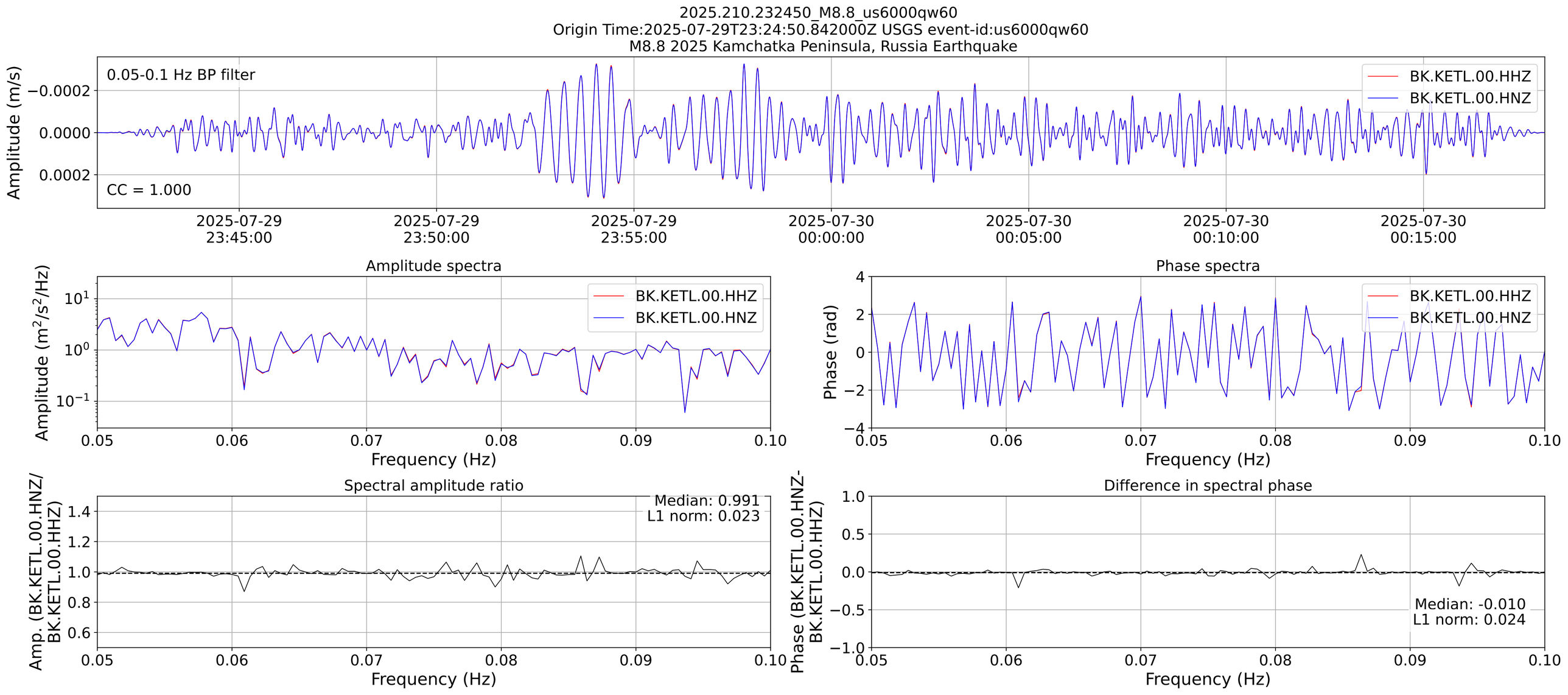

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KARE.00.HHE
BK.KARE.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNE/ BK.KARE.00.HHE)
Median: 0.736
L1 norm: 0.029
Difference in spectral phase
Phase (BK.KARE.00.HNE- BK.KARE.00.HHE)
Median: 0.006
L1 norm: 0.033

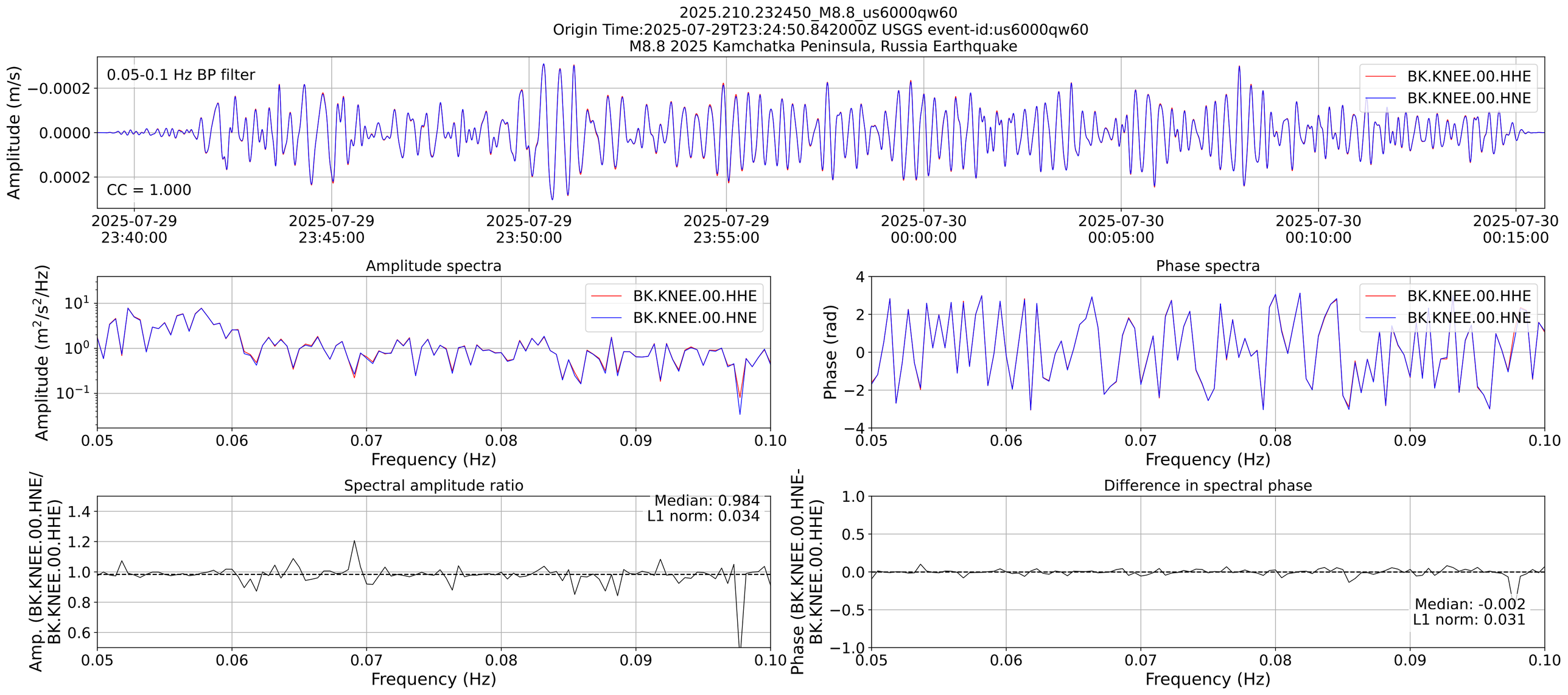

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.KARE.00.HHN
BK.KARE.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNN/ BK.KARE.00.HHN)
Median: 1.012
L1 norm: 0.057
Difference in spectral phase
Phase (BK.KARE.00.HNN- BK.KARE.00.HHN)
Median: 0.008
L1 norm: 0.045

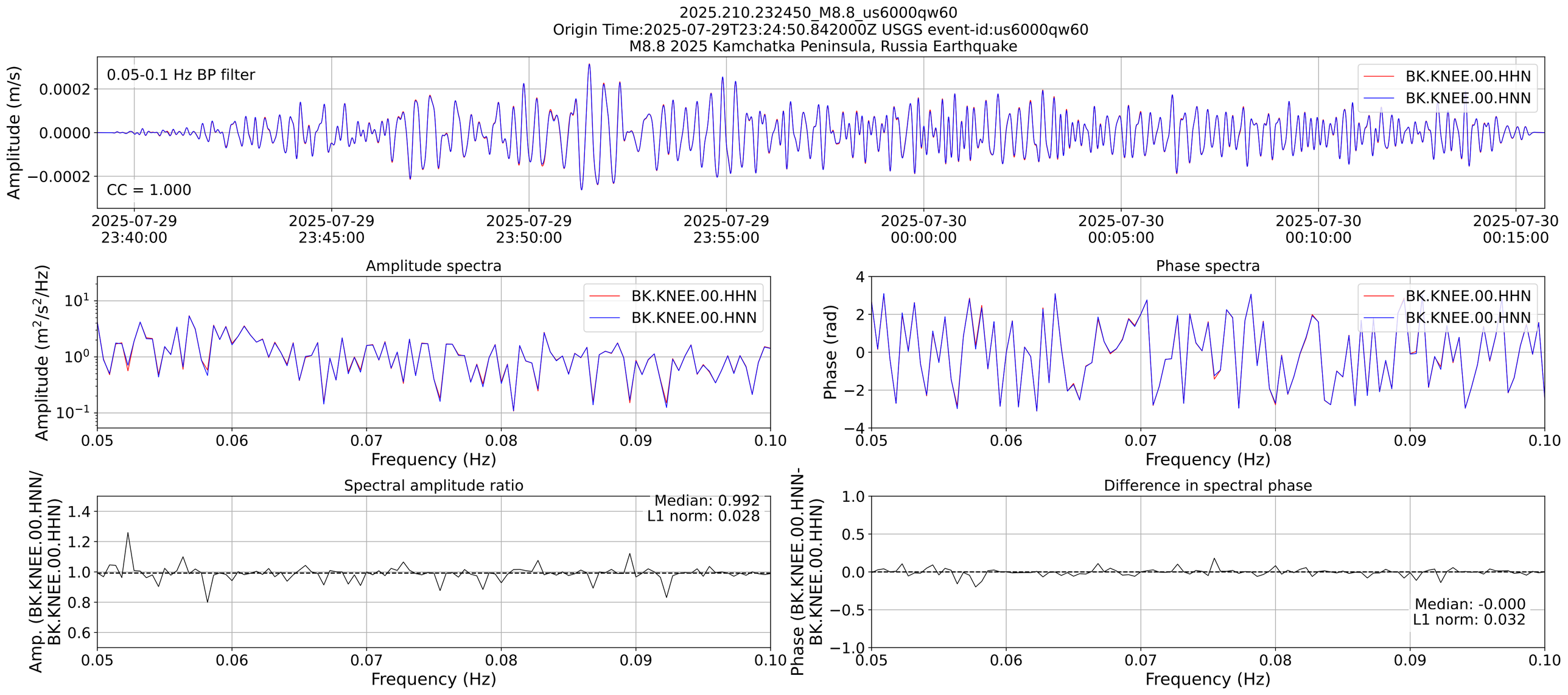

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KARE.00.HHZ
BK.KARE.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNZ/ BK.KARE.00.HHZ)
Median: 0.996
L1 norm: 0.020
Difference in spectral phase
Phase (BK.KARE.00.HNZ-BK.KARE.00.HHZ)
Median: -0.007
L1 norm: 0.028

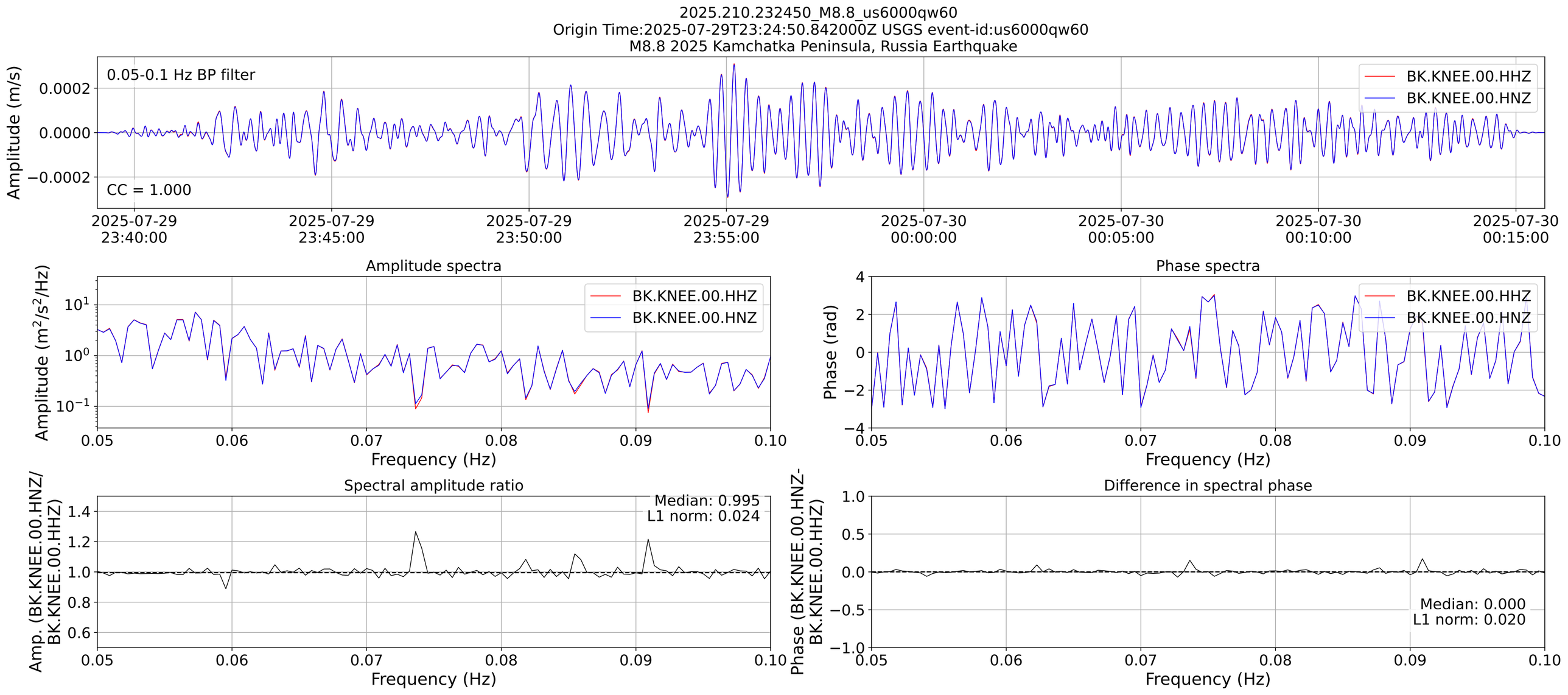

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KETL.00.HHE
BK.KETL.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNE/ BK.KETL.00.HHE)
Median: 0.996
L1 norm: 0.021
Difference in spectral phase
Phase (BK.KETL.00.HNE- BK.KETL.00.HHE)
Median: 0.000
L1 norm: 0.021

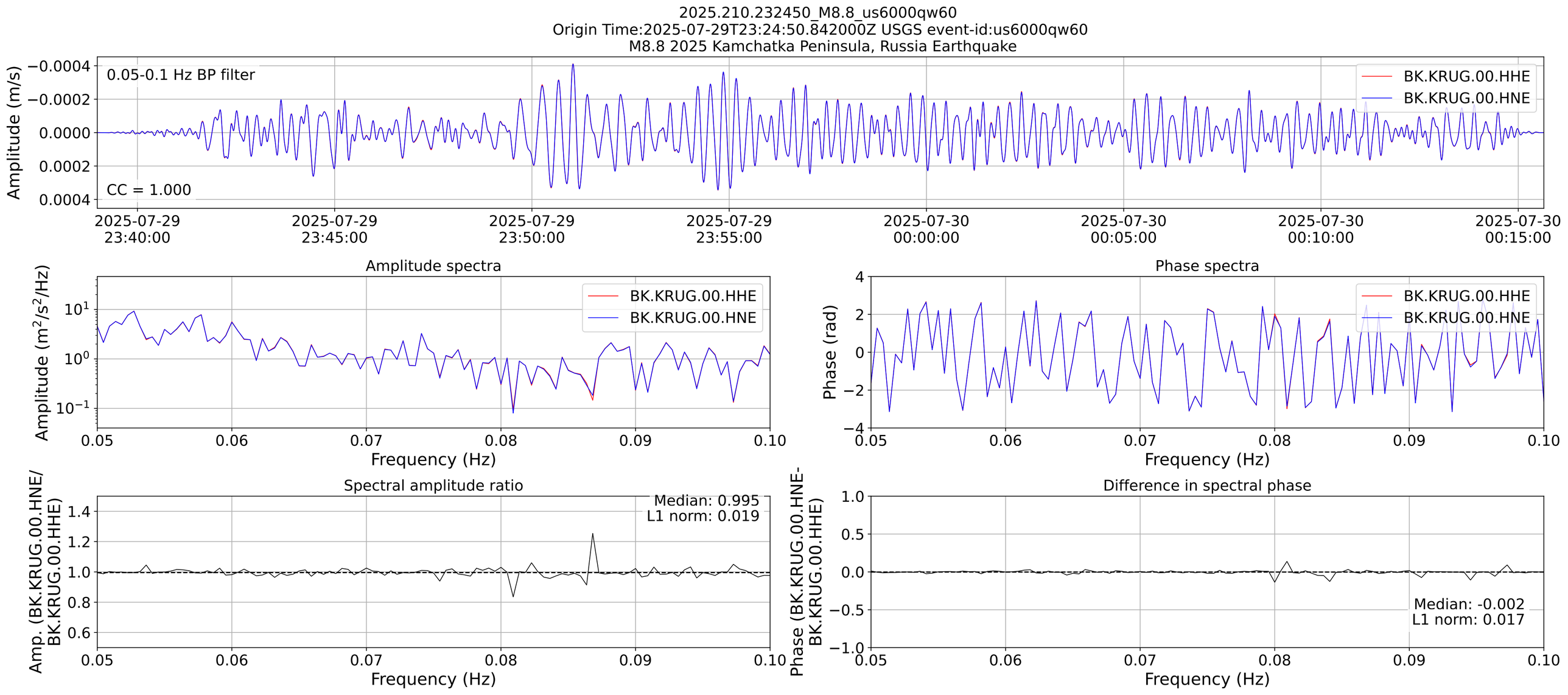

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KETL.00.HHN
BK.KETL.00.HNN
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNN/ BK.KETL.00.HHN)
Median: 0.993
L1 norm: 0.023
Difference in spectral phase
Phase (BK.KETL.00.HNN- BK.KETL.00.HHN)
Median: -0.007
L1 norm: 0.022

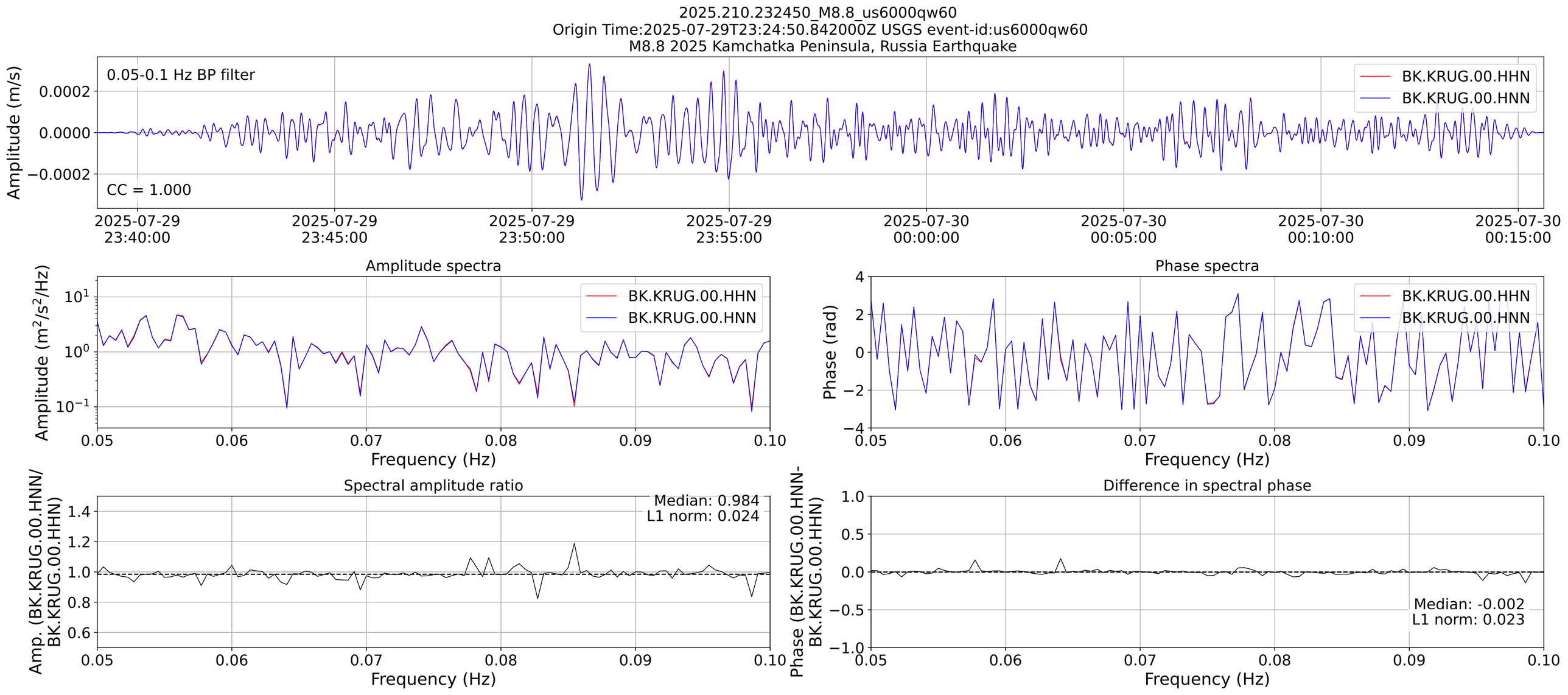

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KETL.00.HHZ
BK.KETL.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNZ/ BK.KETL.00.HHZ)
Median: 0.991
L1 norm: 0.023
Difference in spectral phase
Phase (BK.KETL.00.HNZ- BK.KETL.00.HHZ)
Median: -0.010
L1 norm: 0.024

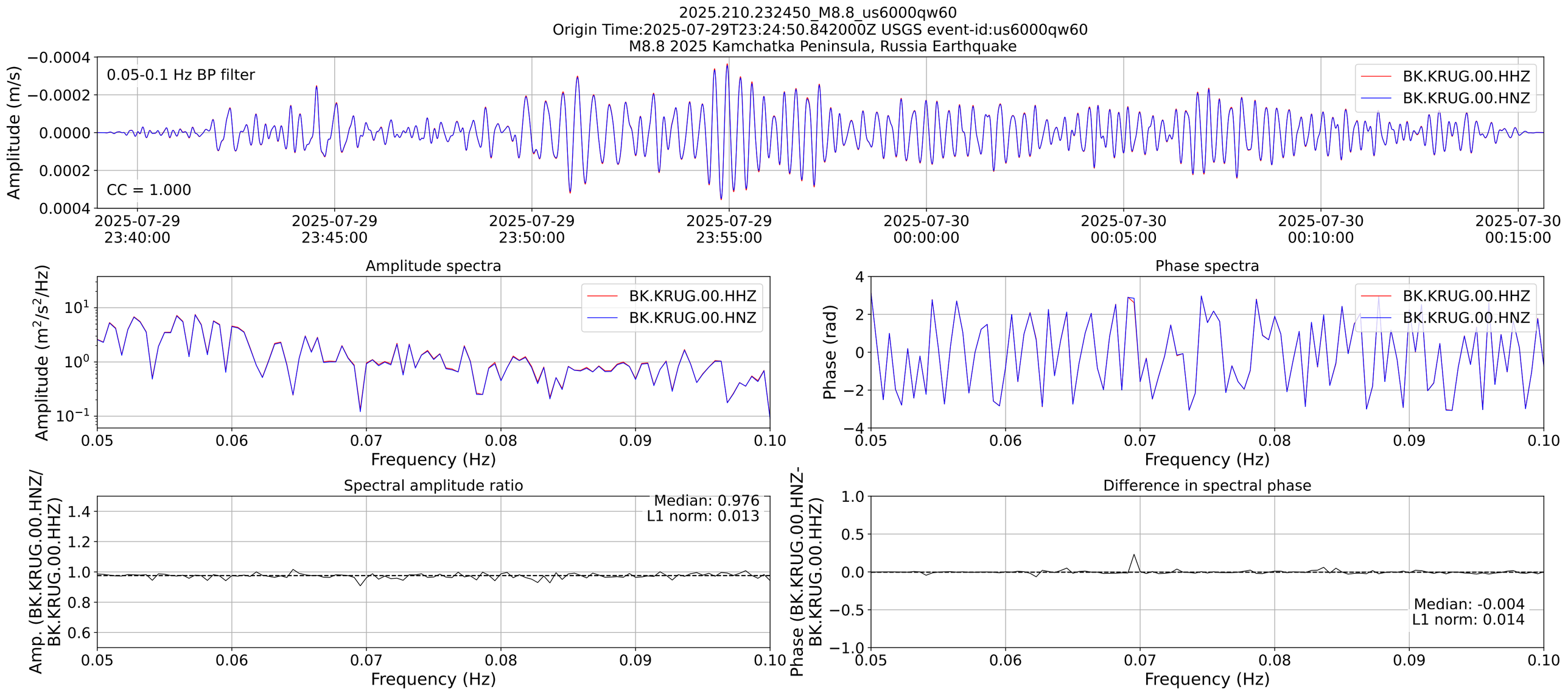

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KNEE.00.HHE
BK.KNEE.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNE/ BK.KNEE.00.HHE)
Median: 0.984
L1 norm: 0.034
Difference in spectral phase
Phase (BK.KNEE.00.HNE- BK.KNEE.00.HHE)
Median: -0.002
L1 norm: 0.031

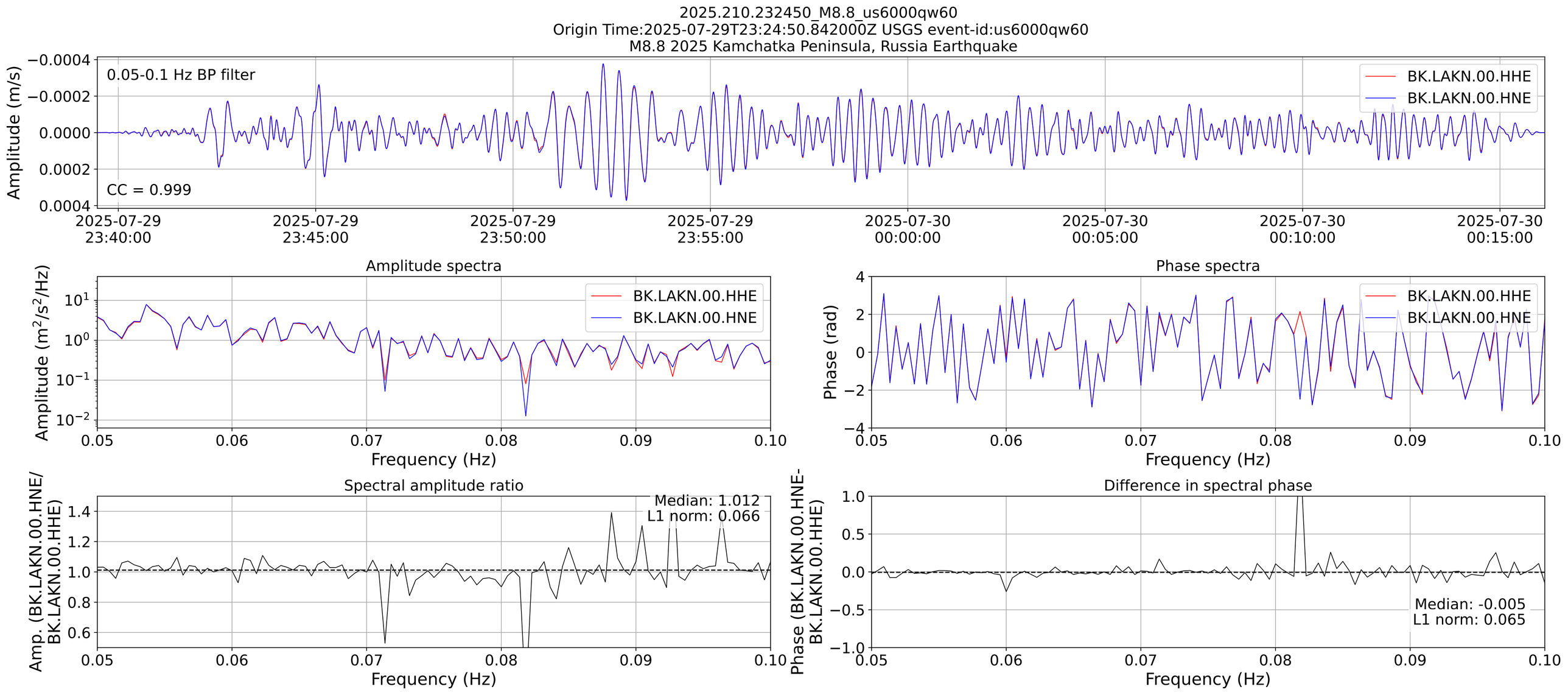

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KNEE.00.HHN
BK.KNEE.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNN/ BK.KNEE.00.HHN)
Median: 0.992
L1 norm: 0.028
Difference in spectral phase
Phase (BK.KNEE.00.HNN- BK.KNEE.00.HHN)
Median: -0.000
L1 norm: 0.032

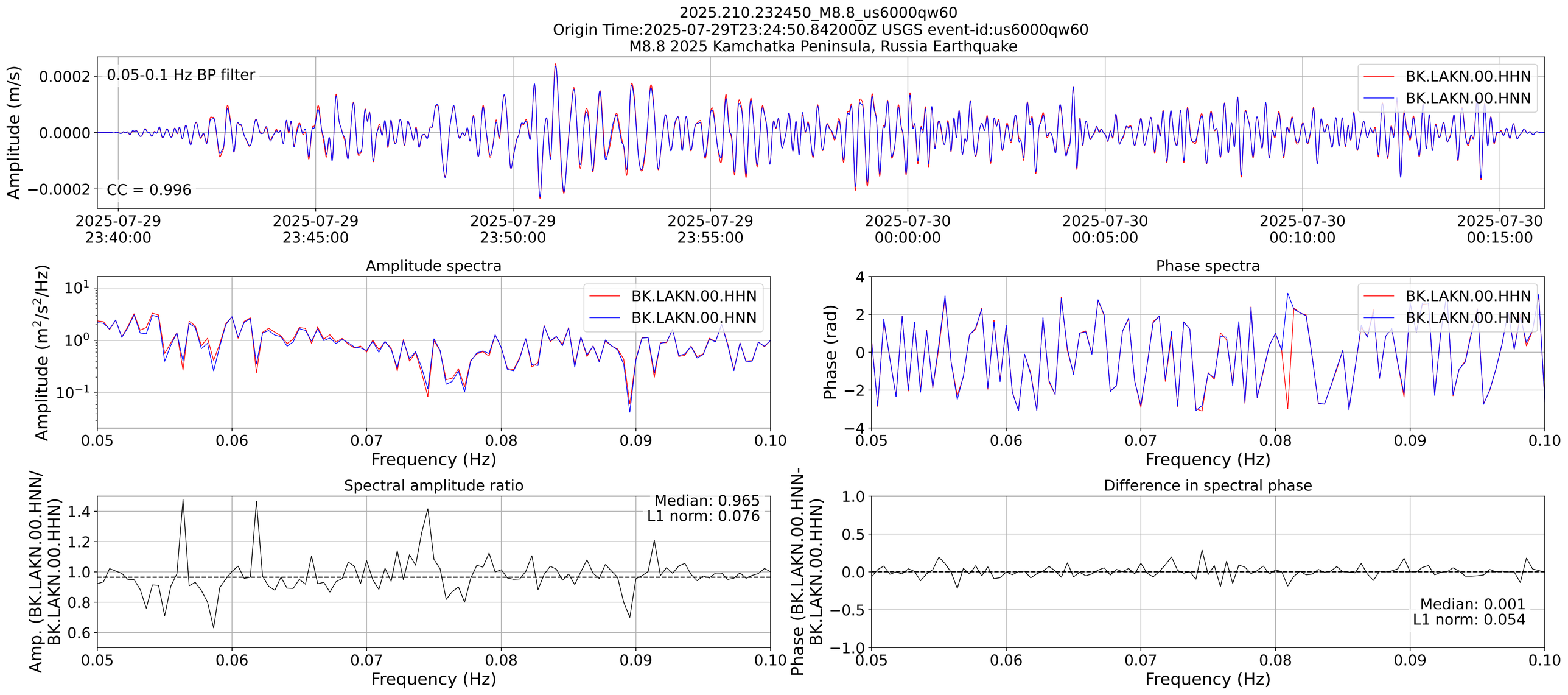

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KNEE.00.HHZ
BK.KNEE.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNZ/ BK.KNEE.00.HHZ)
Median: 0.995
L1 norm: 0.024
Difference in spectral phase
Phase (BK.KNEE.00.HNZ- BK.KNEE.00.HHZ)
Median: 0.000
L1 norm: 0.020

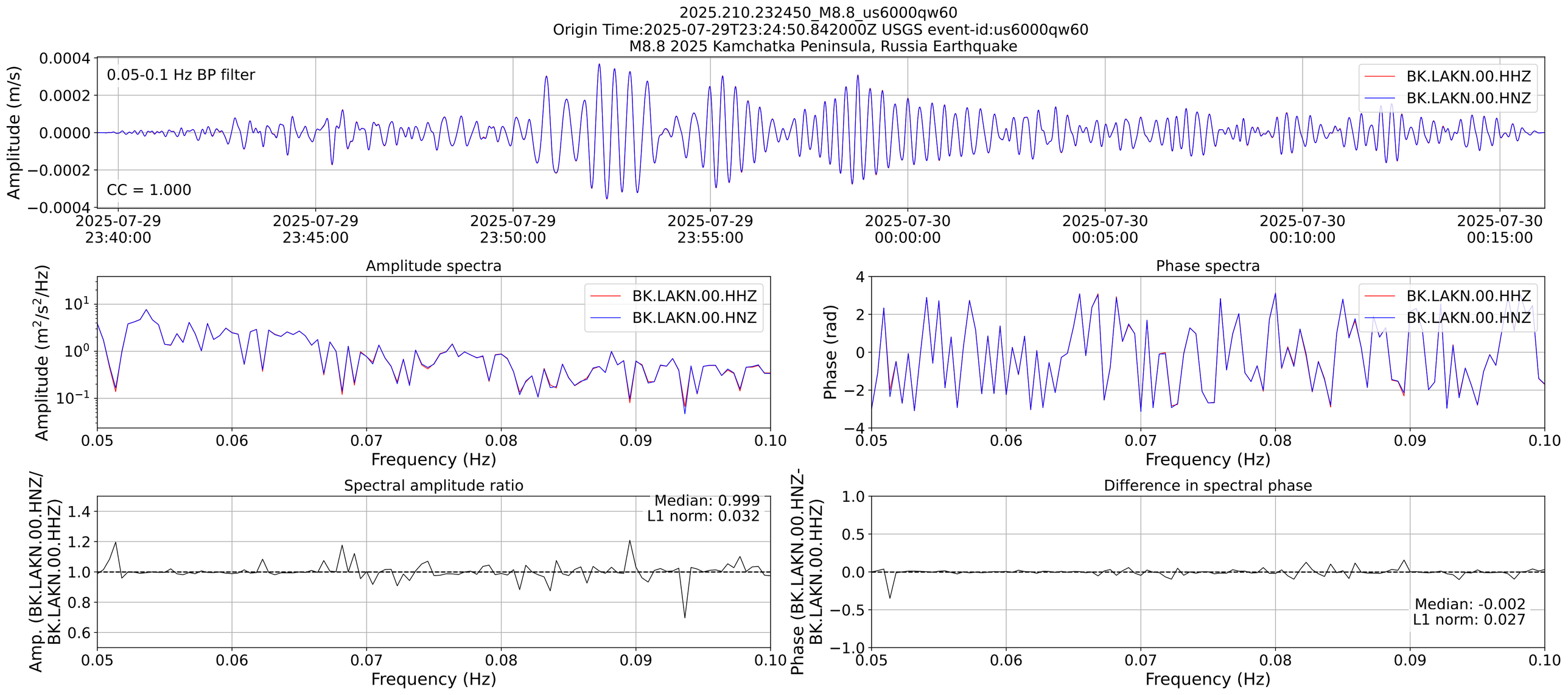

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KRUG.00.HHE
BK.KRUG.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNE/ BK.KRUG.00.HHE)
Median: 0.995
L1 norm: 0.019
Difference in spectral phase
Phase (BK.KRUG.00.HNE- BK.KRUG.00.HHE)
Median: -0.002
L1 norm: 0.017

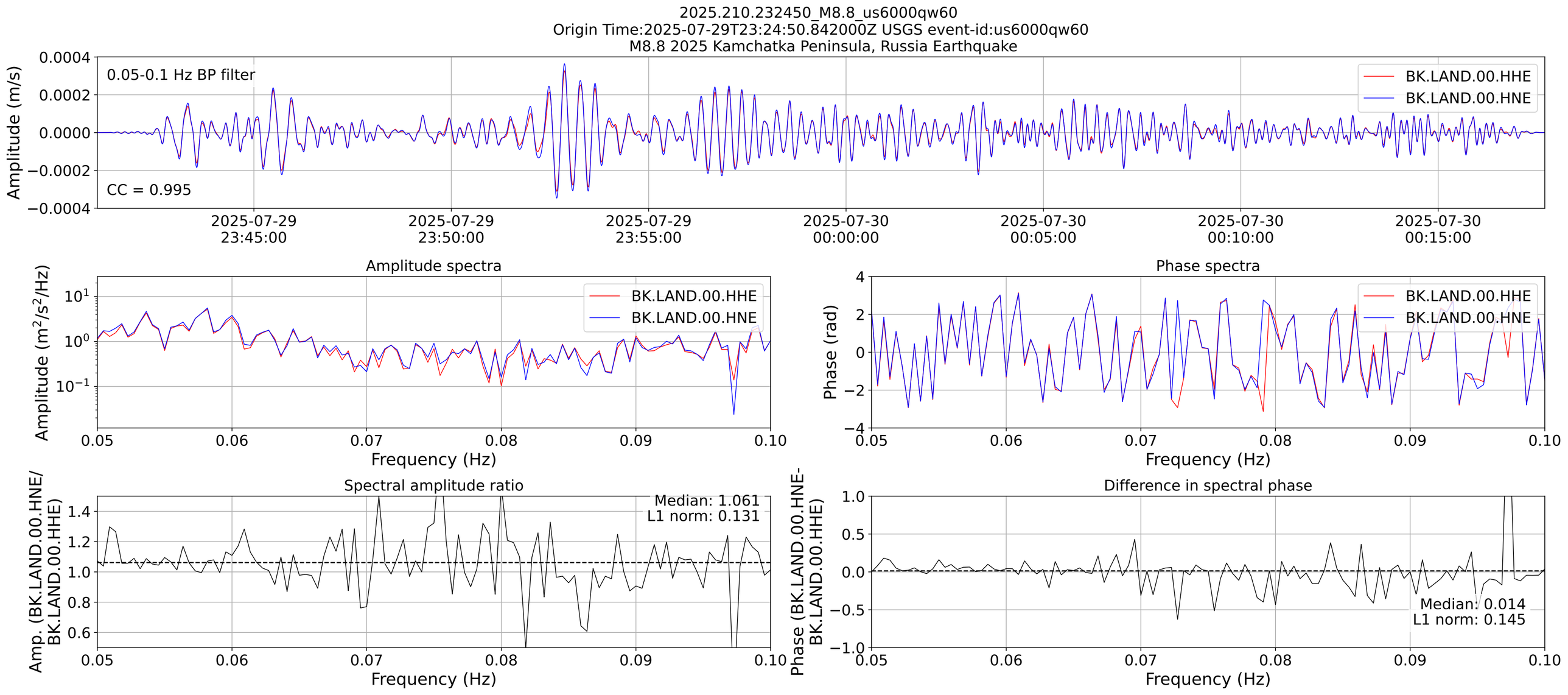

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KRUG.00.HHN
BK.KRUG.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNN/ BK.KRUG.00.HHN)
Median: 0.984
L1 norm: 0.024
Difference in spectral phase
Phase (BK.KRUG.00.HNN- BK.KRUG.00.HHN)
Median: -0.002
L1 norm: 0.023

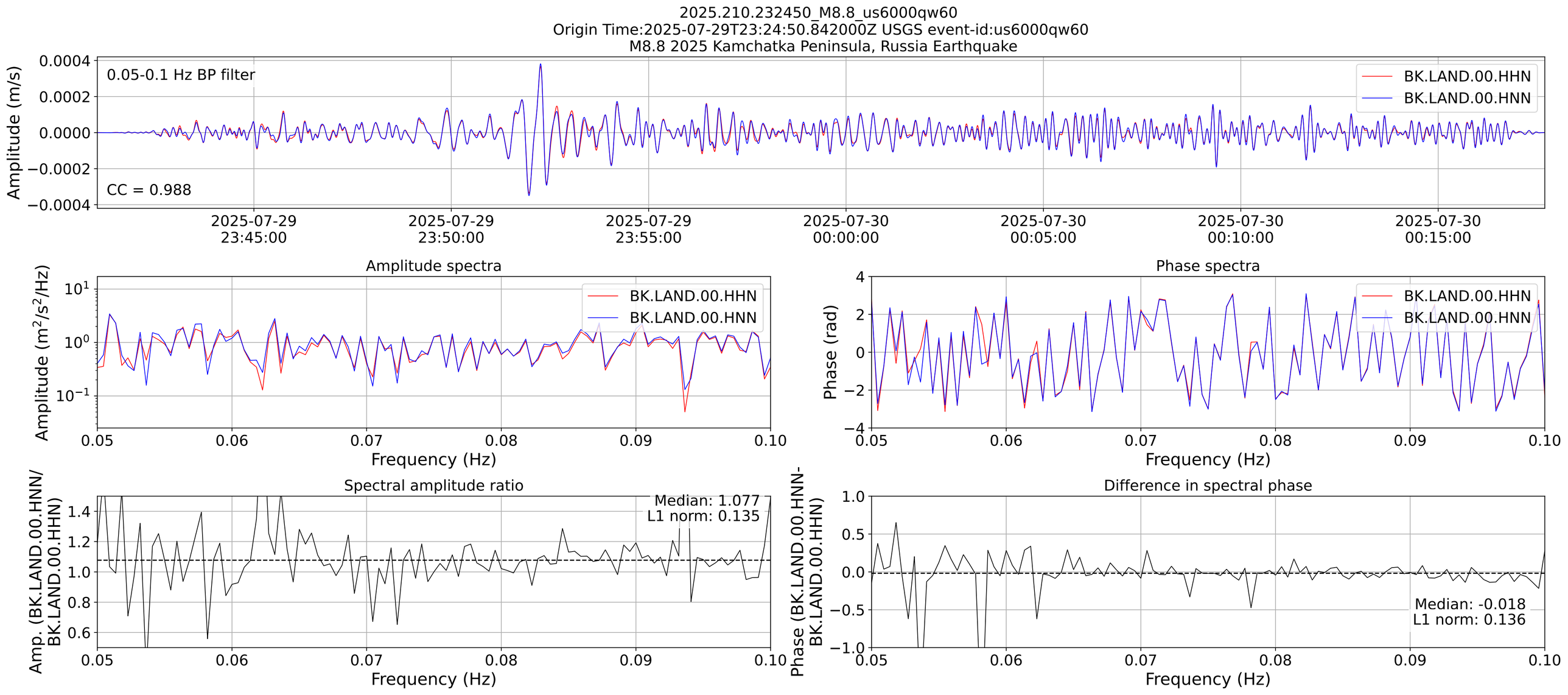

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.KRUG.00.HHZ
BK.KRUG.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNZ/ BK.KRUG.00.HHZ)
Median: 0.976
L1 norm: 0.013
Difference in spectral phase
Phase (BK.KRUG.00.HNZ- BK.KRUG.00.HHZ)
Median: -0.004
L1 norm: 0.014

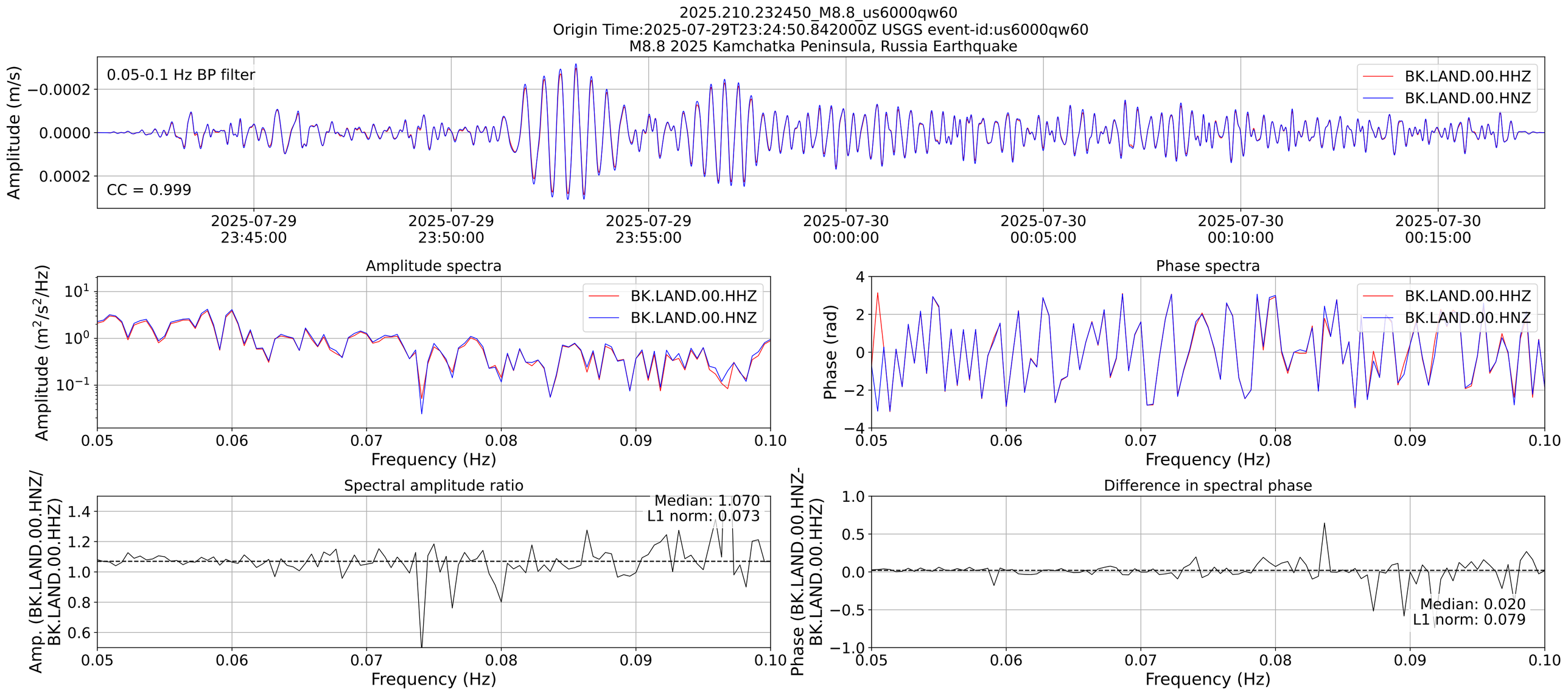

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LAKN.00.HHE
BK.LAKN.00.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNE/ BK.LAKN.00.HHE)
Median: 1.012
L1 norm: 0.066
Difference in spectral phase
Phase (BK.LAKN.00.HNE- BK.LAKN.00.HHE)
Median: -0.005
L1 norm: 0.065

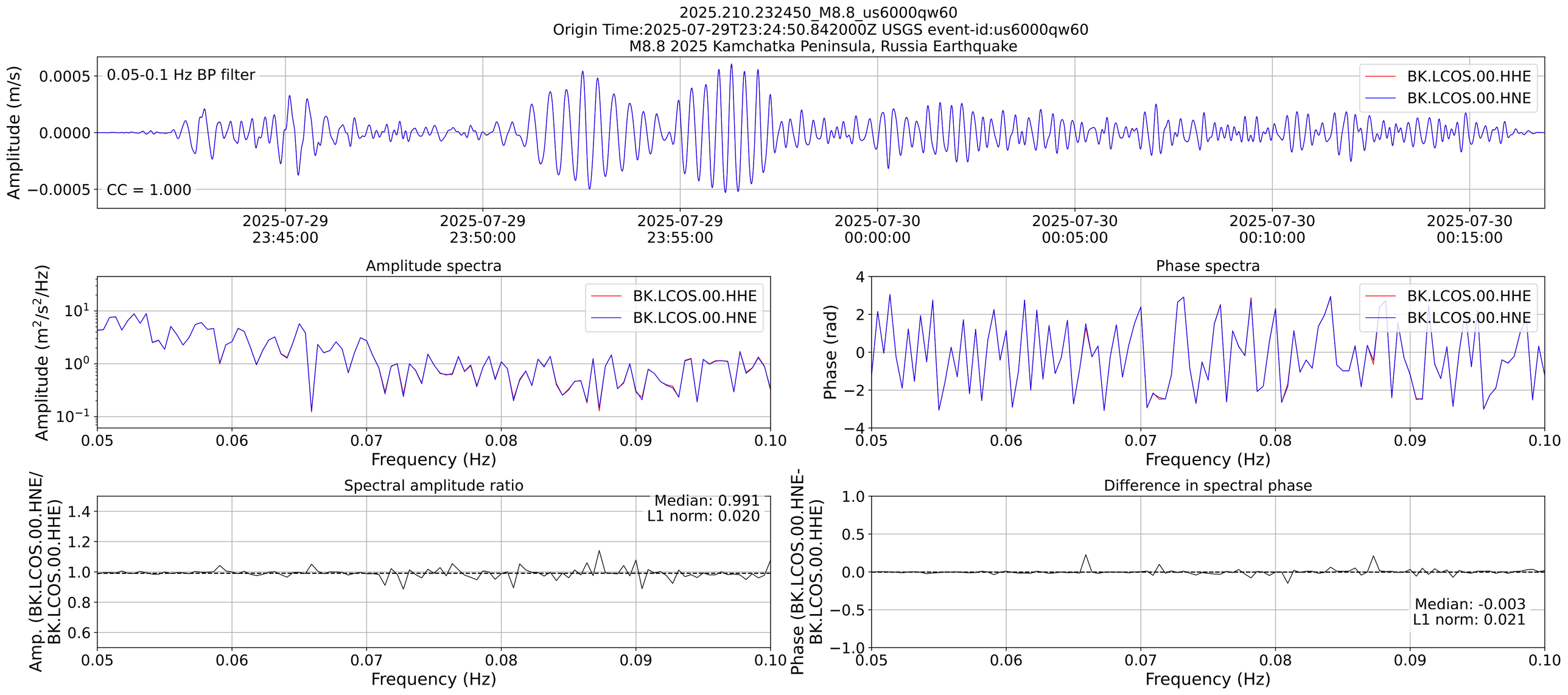

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
BK.LAKN.00.HHN
BK.LAKN.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNN/ BK.LAKN.00.HHN)
Median: 0.965
L1 norm: 0.076
Difference in spectral phase
Phase (BK.LAKN.00.HNN- BK.LAKN.00.HHN)
Median: 0.001
L1 norm: 0.054

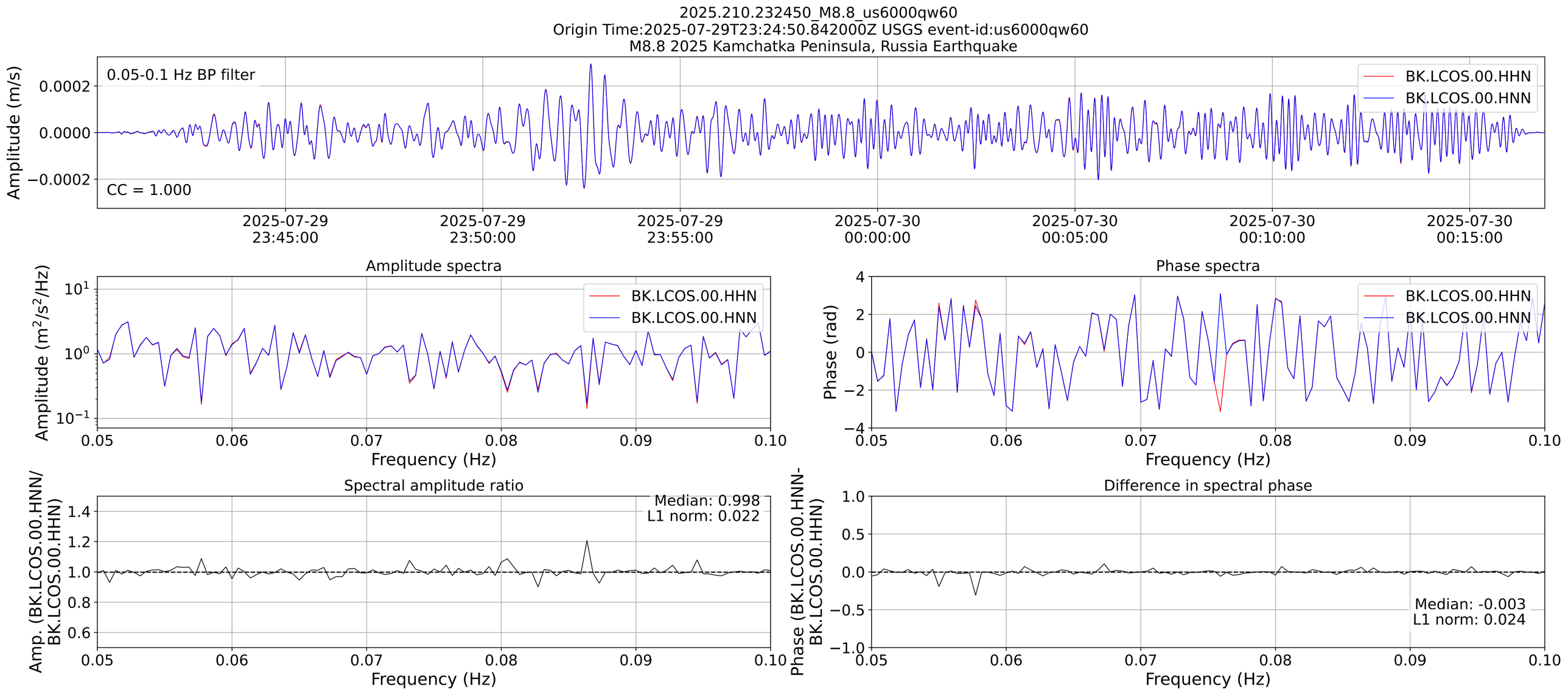

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LAKN.00.HHZ
BK.LAKN.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNZ/ BK.LAKN.00.HHZ)
Median: 0.999
L1 norm: 0.032
Difference in spectral phase
Phase (BK.LAKN.00.HNZ- BK.LAKN.00.HHZ)
Median: -0.002
L1 norm: 0.027

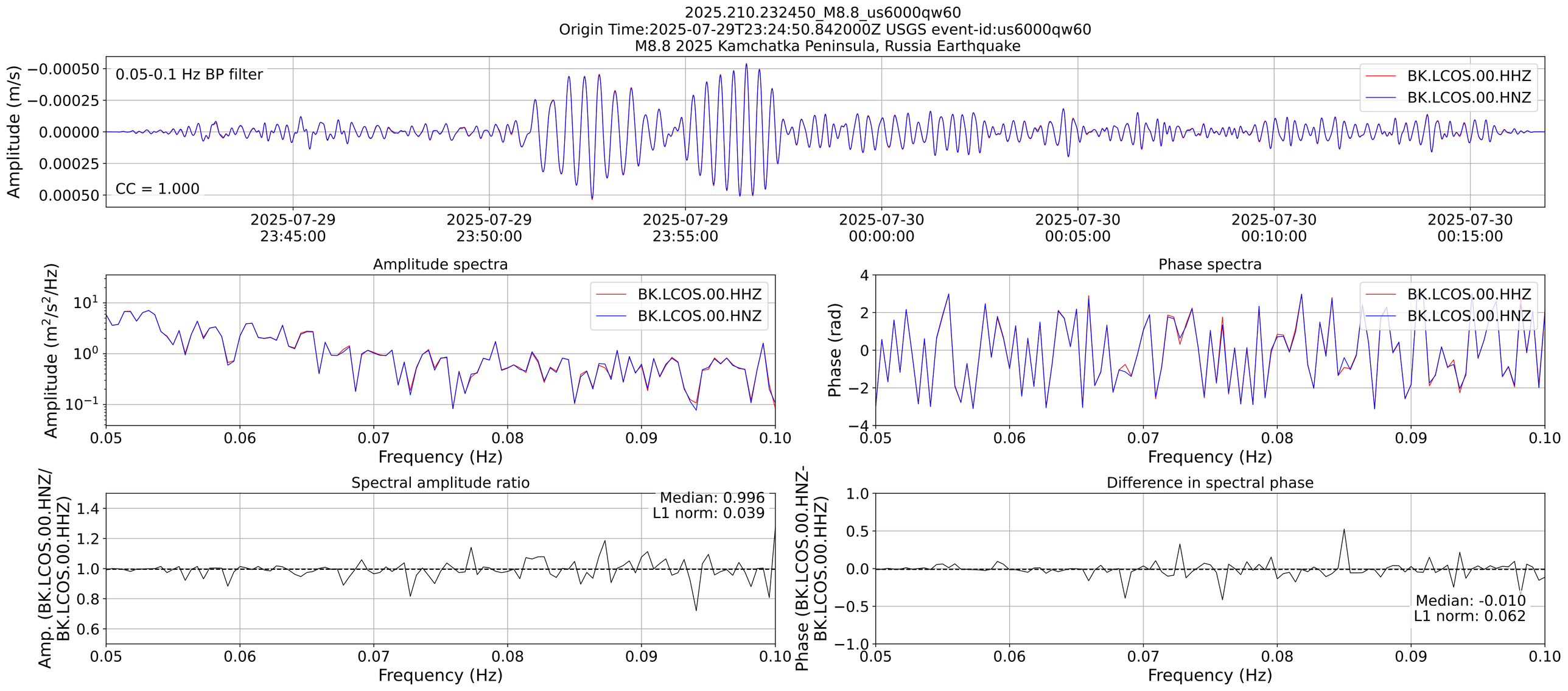

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
BK.LAND.00.HHE
BK.LAND.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNE/ BK.LAND.00.HHE)
Median: 1.061
L1 norm: 0.131
Difference in spectral phase
Phase (BK.LAND.00.HNE- BK.LAND.00.HHE)
Median: 0.014
L1 norm: 0.145

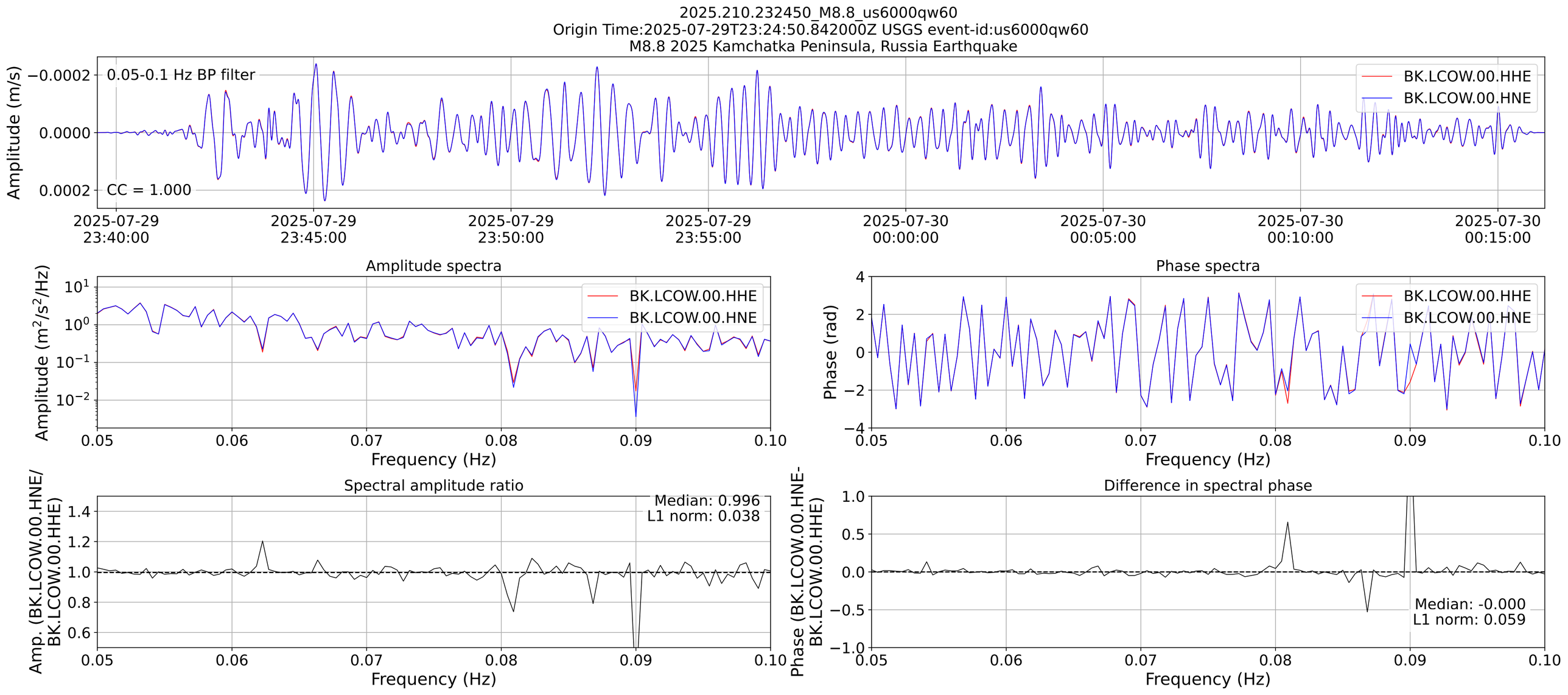

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.988
BK.LAND.00.HHN
BK.LAND.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNN/ BK.LAND.00.HHN)
Median: 1.077
L1 norm: 0.135
Difference in spectral phase
Phase (BK.LAND.00.HNN- BK.LAND.00.HHN)
Median: -0.018
L1 norm: 0.136

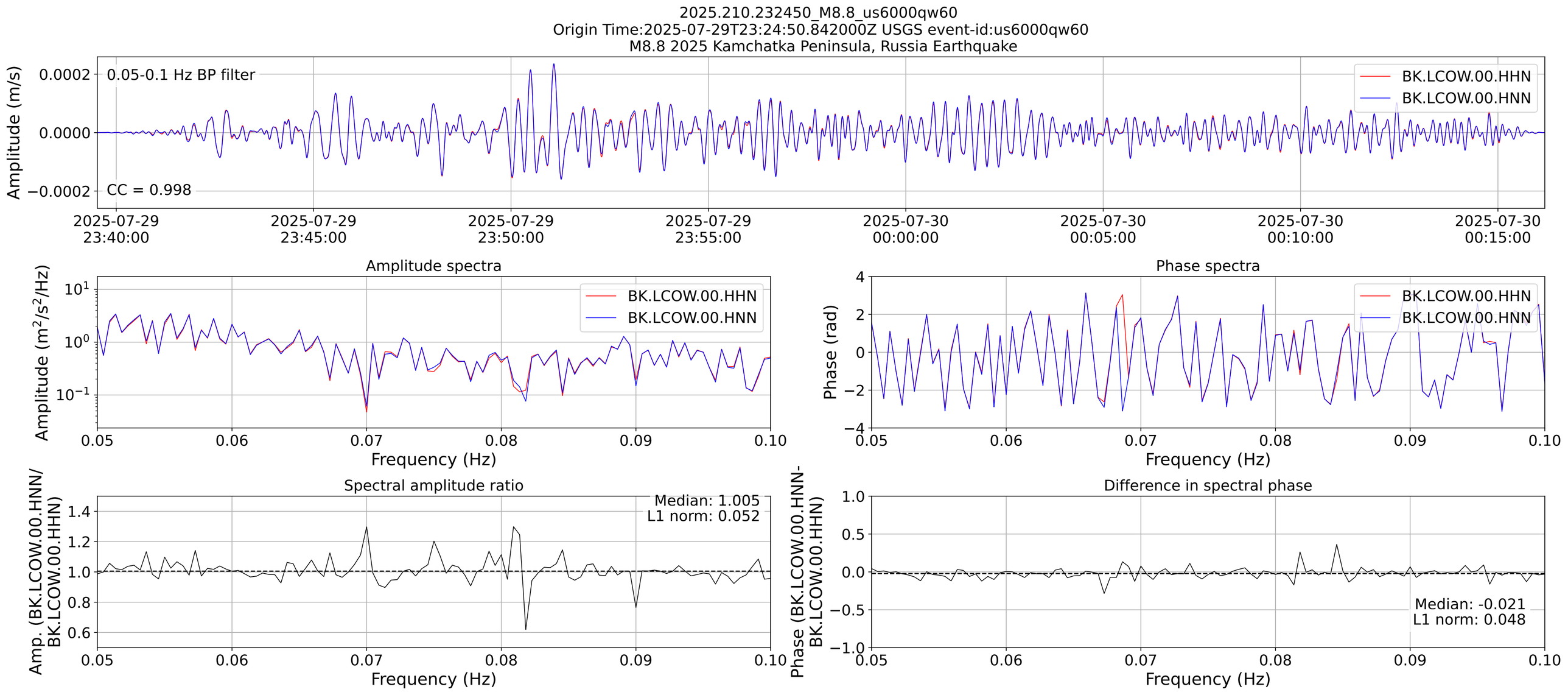

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LAND.00.HHZ
BK.LAND.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNZ/ BK.LAND.00.HHZ)
Median: 1.070
L1 norm: 0.073
Difference in spectral phase
Phase (BK.LAND.00.HNZ- BK.LAND.00.HHZ)
Median: 0.020
L1 norm: 0.079

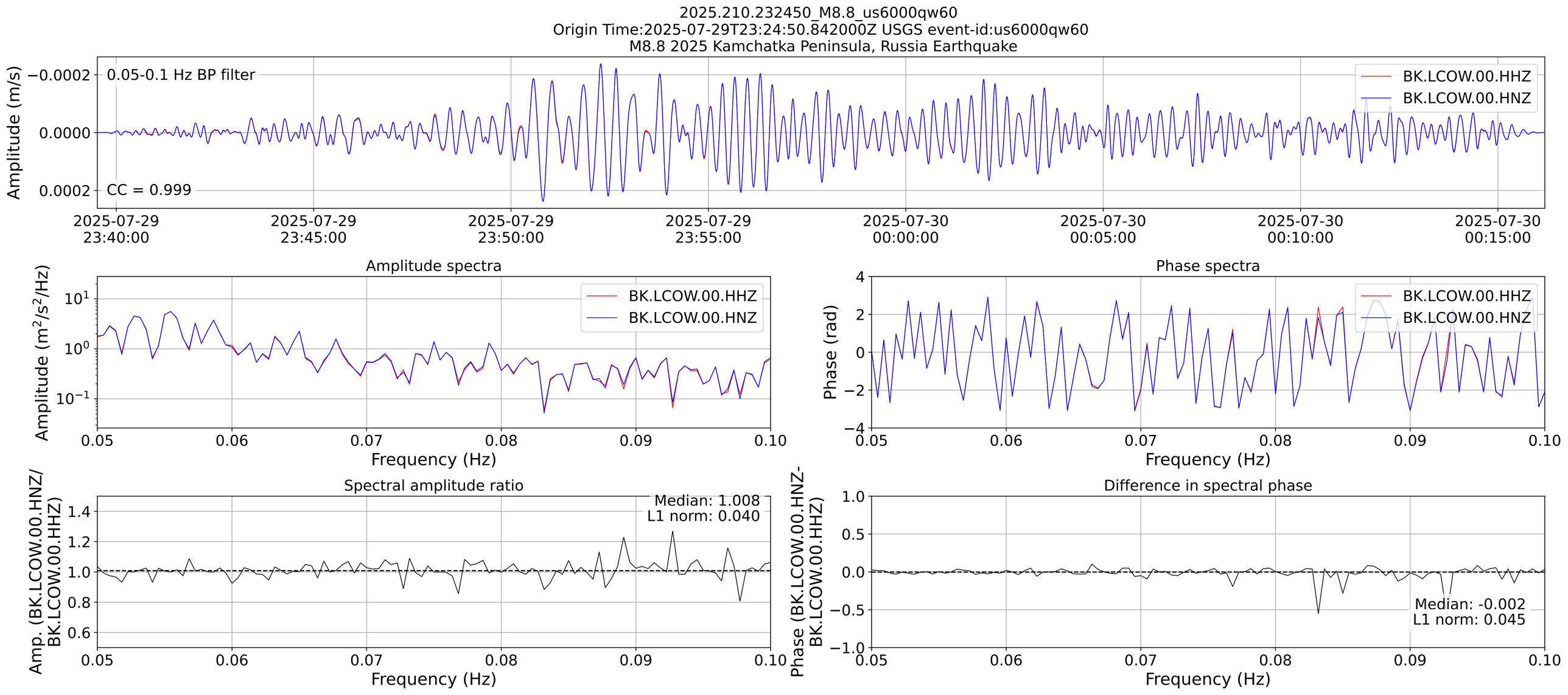

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LCOS.00.HHE
BK.LCOS.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOS.00.HNE/ BK.LCOS.00.HHE)
Median: 0.991
L1 norm: 0.020
Difference in spectral phase
Phase (BK.LCOS.00.HNE- BK.LCOS.00.HHE)
Median: -0.003
L1 norm: 0.021

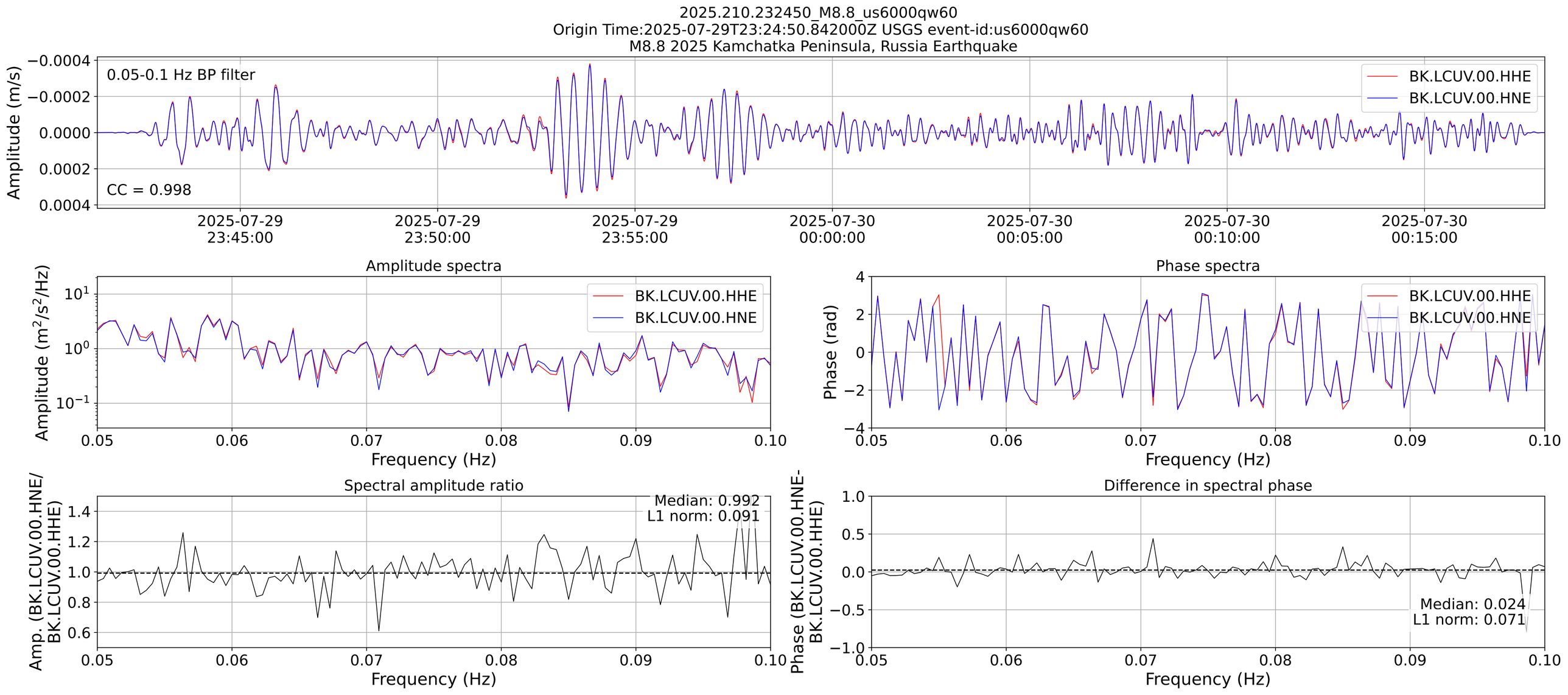

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LCOS.00.HHN
BK.LCOS.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOS.00.HNN/ BK.LCOS.00.HHN)
Median: 0.998
L1 norm: 0.022
Difference in spectral phase
Phase (BK.LCOS.00.HNN- BK.LCOS.00.HHN)
Median: -0.003
L1 norm: 0.024

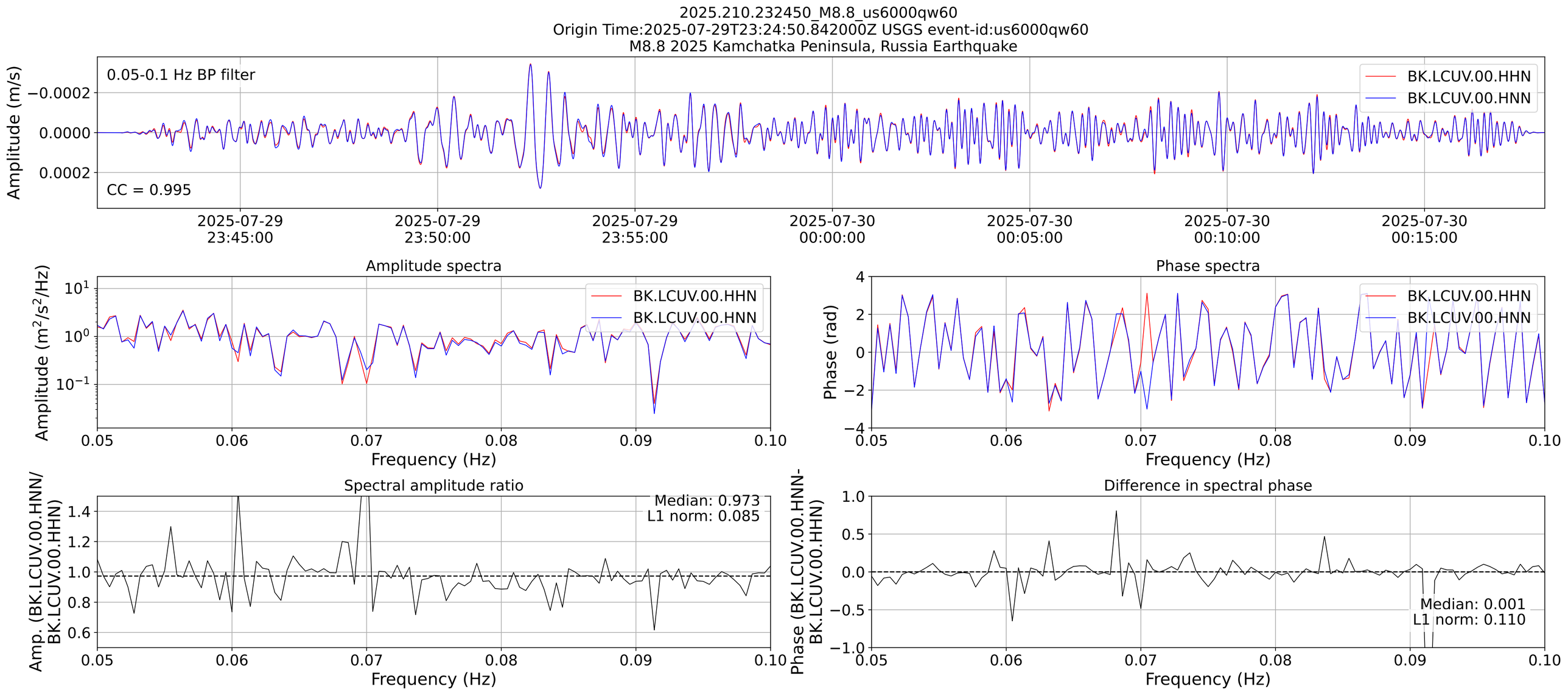

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LCOS.00.HHZ
BK.LCOS.00.HNZ
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 0.996
L1 norm: 0.039
Amp. (BK.LCOS.00.HNZ/ BK.LCOS.00.HHZ)
Difference in spectral phase
Median: -0.010
L1 norm: 0.062
Phase (BK.LCOS.00.HNZ- BK.LCOS.00.HHZ)

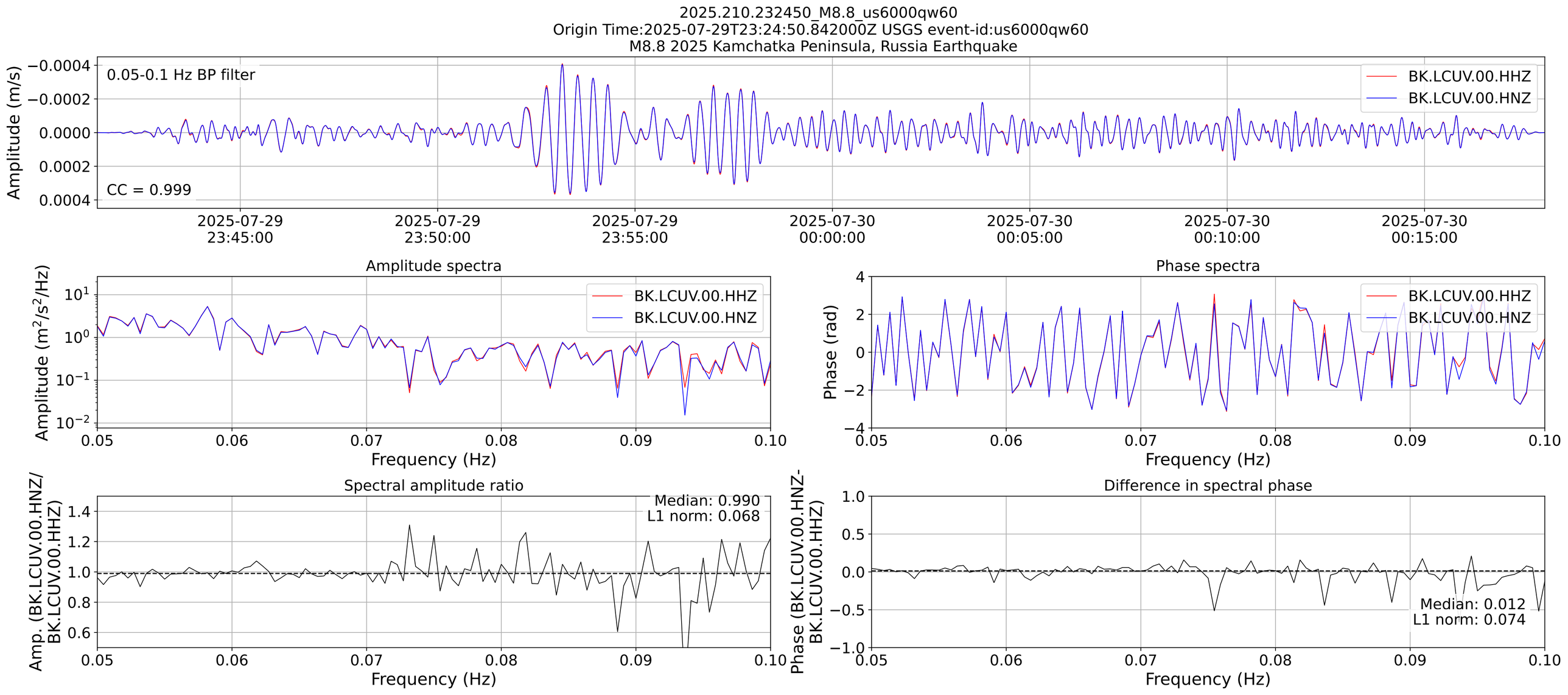

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LCOW.00.HHE
BK.LCOW.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOW.00.HNE/ BK.LCOW.00.HHE)
Median: 0.996
L1 norm: 0.038
Difference in spectral phase
Phase (BK.LCOW.00.HNE- BK.LCOW.00.HHE)
Median: -0.000
L1 norm: 0.059

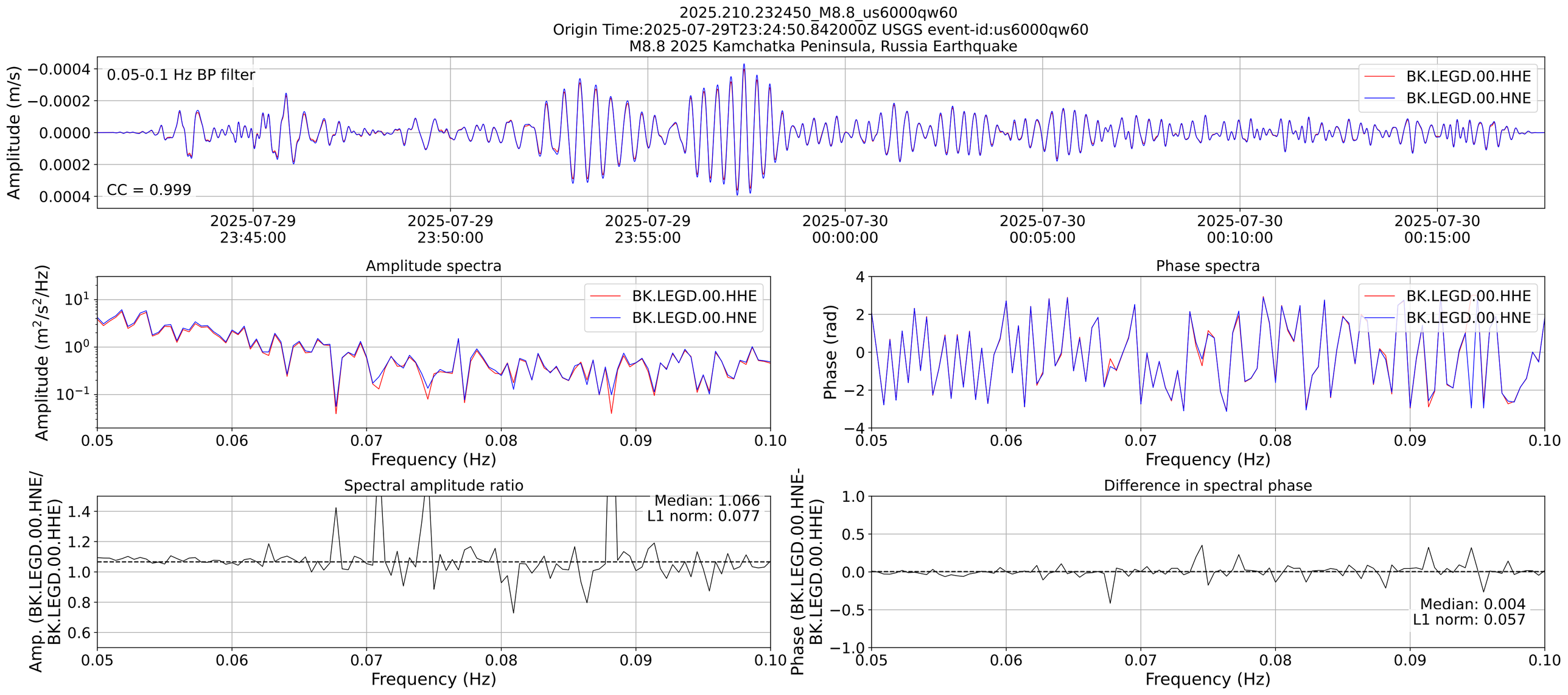

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.LCOW.00.HHN
BK.LCOW.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOW.00.HNN/ BK.LCOW.00.HHN)
Median: 1.005
L1 norm: 0.052
Difference in spectral phase
Phase (BK.LCOW.00.HNN- BK.LCOW.00.HHN)
Median: -0.021
L1 norm: 0.048

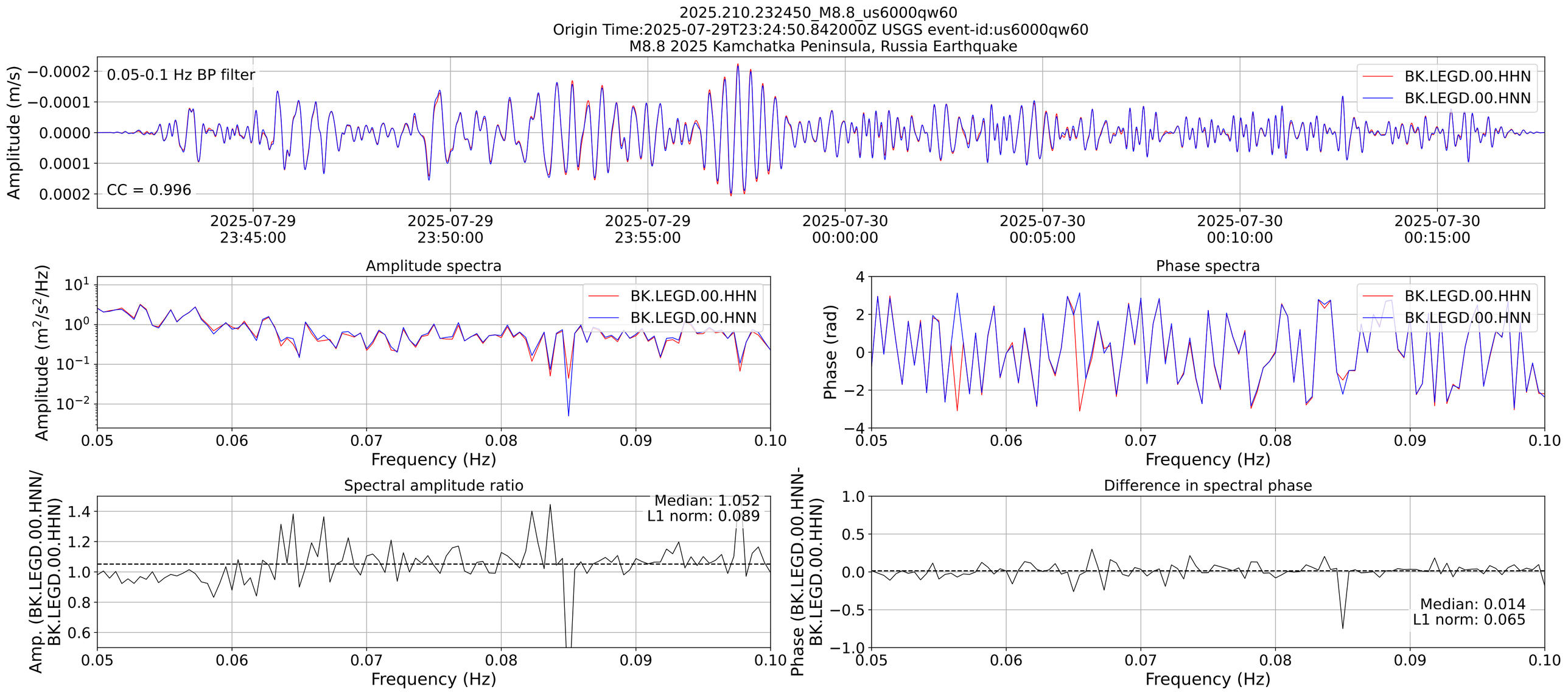

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LCOW.00.HHZ
BK.LCOW.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOW.00.HNZ/ BK.LCOW.00.HHZ)
Median: 1.008
L1 norm: 0.040
Difference in spectral phase
Phase (BK.LCOW.00.HNZ- BK.LCOW.00.HHZ)
Median: -0.002
L1 norm: 0.045

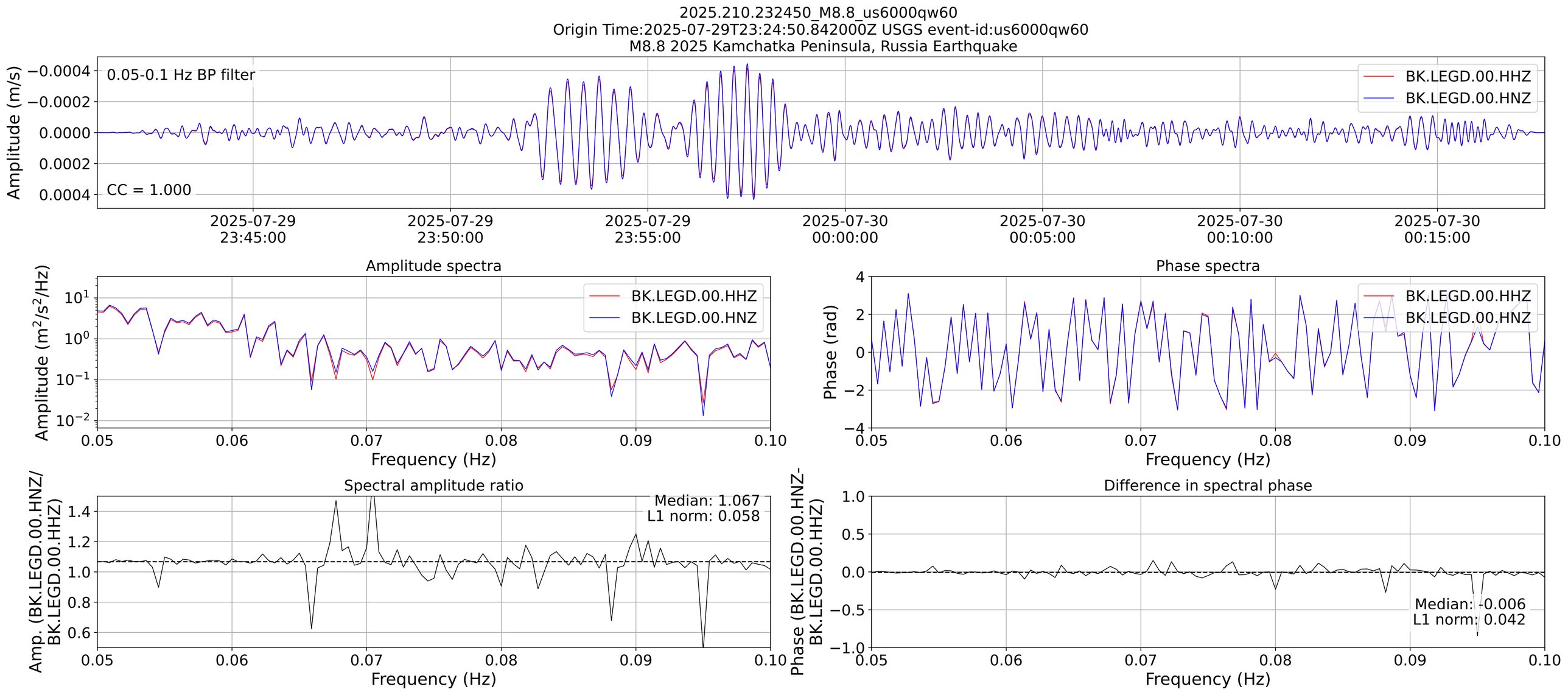

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.LCUV.00.HHE
BK.LCUV.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNE/ BK.LCUV.00.HHE)
Median: 0.992
L1 norm: 0.091
Difference in spectral phase
Phase (BK.LCUV.00.HNE- BK.LCUV.00.HHE)
Median: 0.024
L1 norm: 0.071

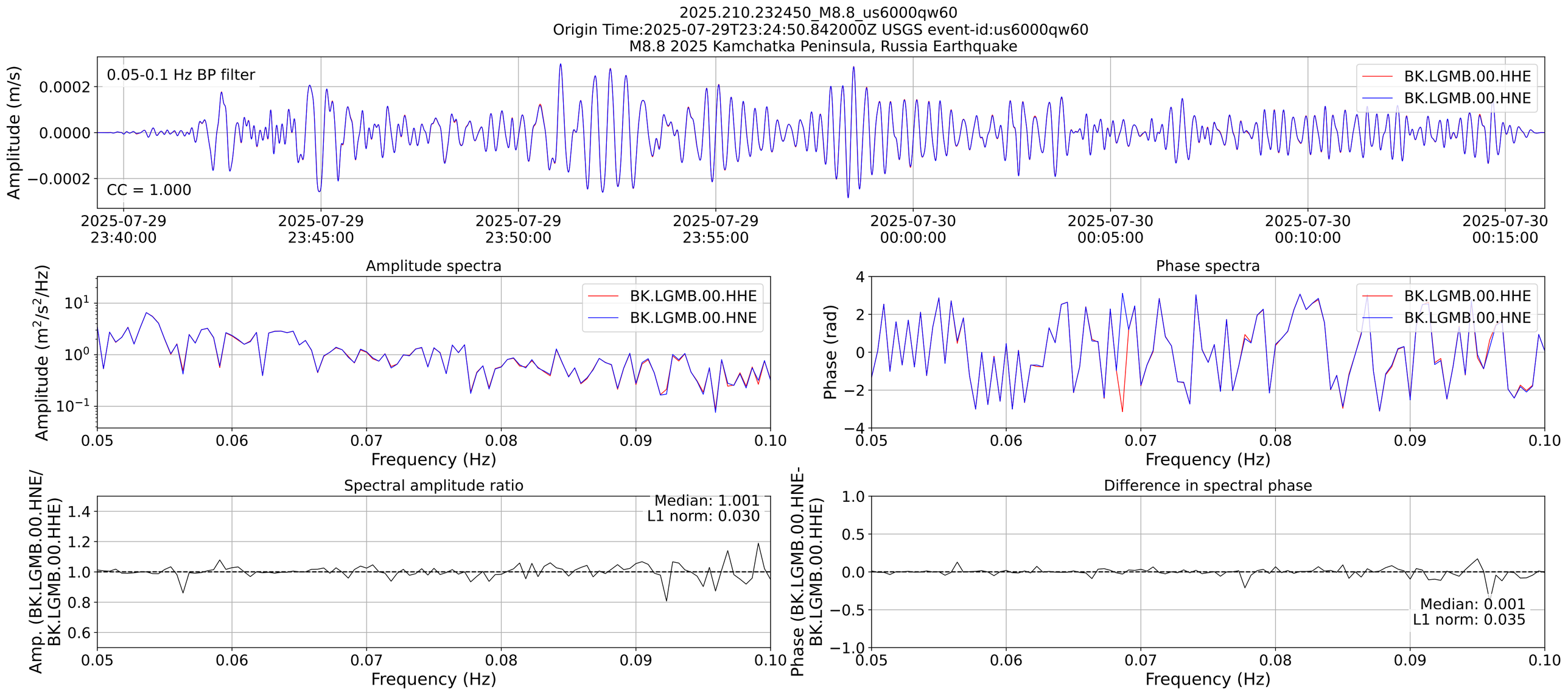

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
BK.LCUV.00.HHN
BK.LCUV.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNN/ BK.LCUV.00.HHN)
Median: 0.973
L1 norm: 0.085
Difference in spectral phase
Phase (BK.LCUV.00.HNN- BK.LCUV.00.HHN)
Median: 0.001
L1 norm: 0.110

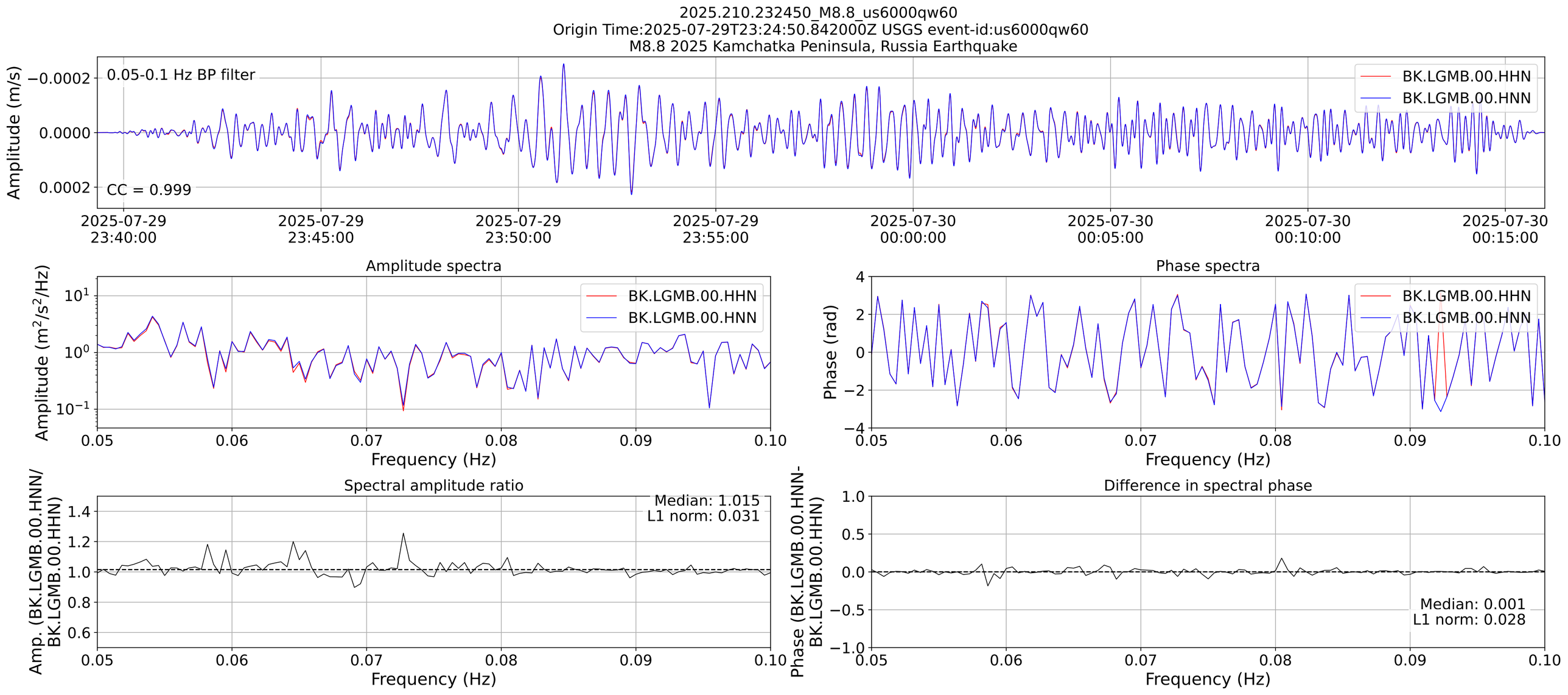

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LCUV.00.HHZ
BK.LCUV.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNZ/ BK.LCUV.00.HHZ)
Median: 0.990
L1 norm: 0.068
Difference in spectral phase
Phase (BK.LCUV.00.HNZ- BK.LCUV.00.HHZ)
Median: 0.012
L1 norm: 0.074

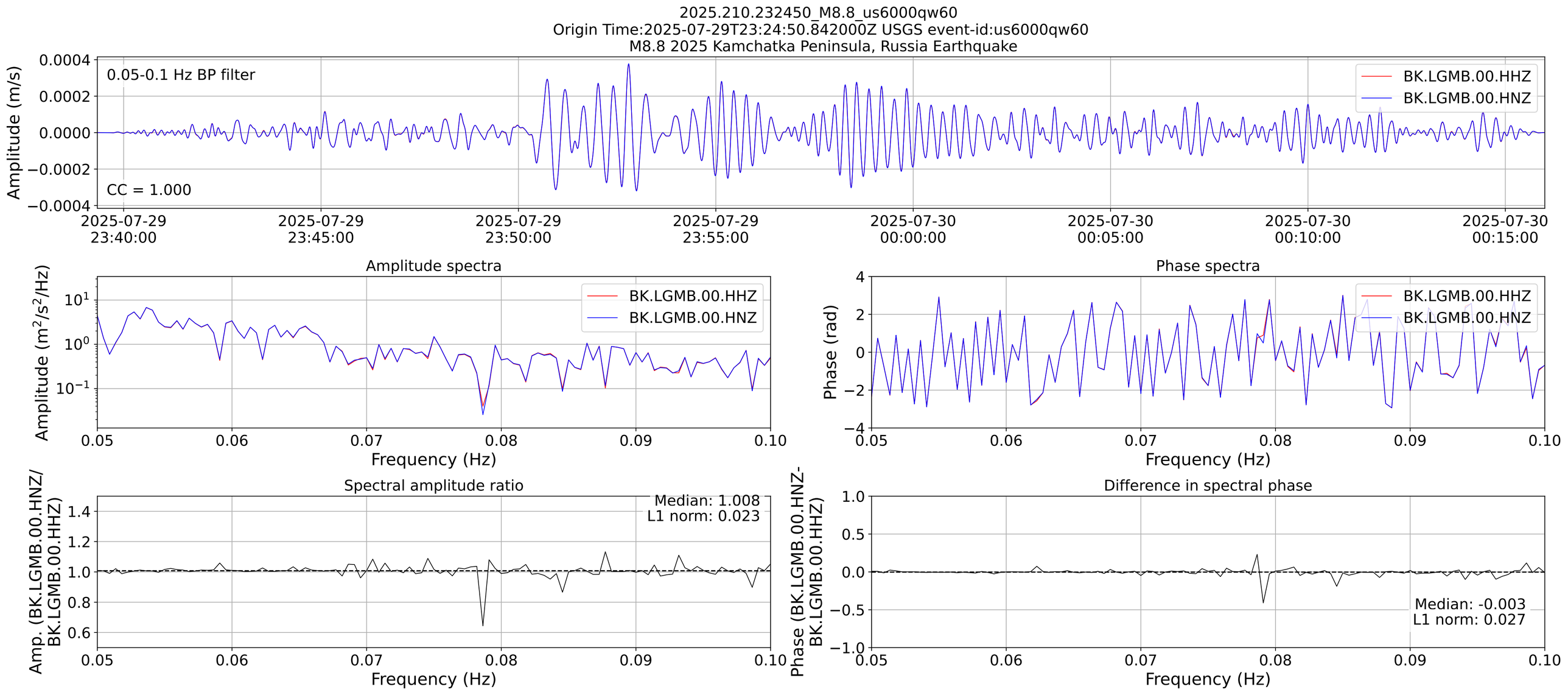

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LEGD.00.HHE
BK.LEGD.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNE/ BK.LEGD.00.HHE)
Median: 1.066
L1 norm: 0.077
Difference in spectral phase
Phase (BK.LEGD.00.HNE- BK.LEGD.00.HHE)
Median: 0.004
L1 norm: 0.057

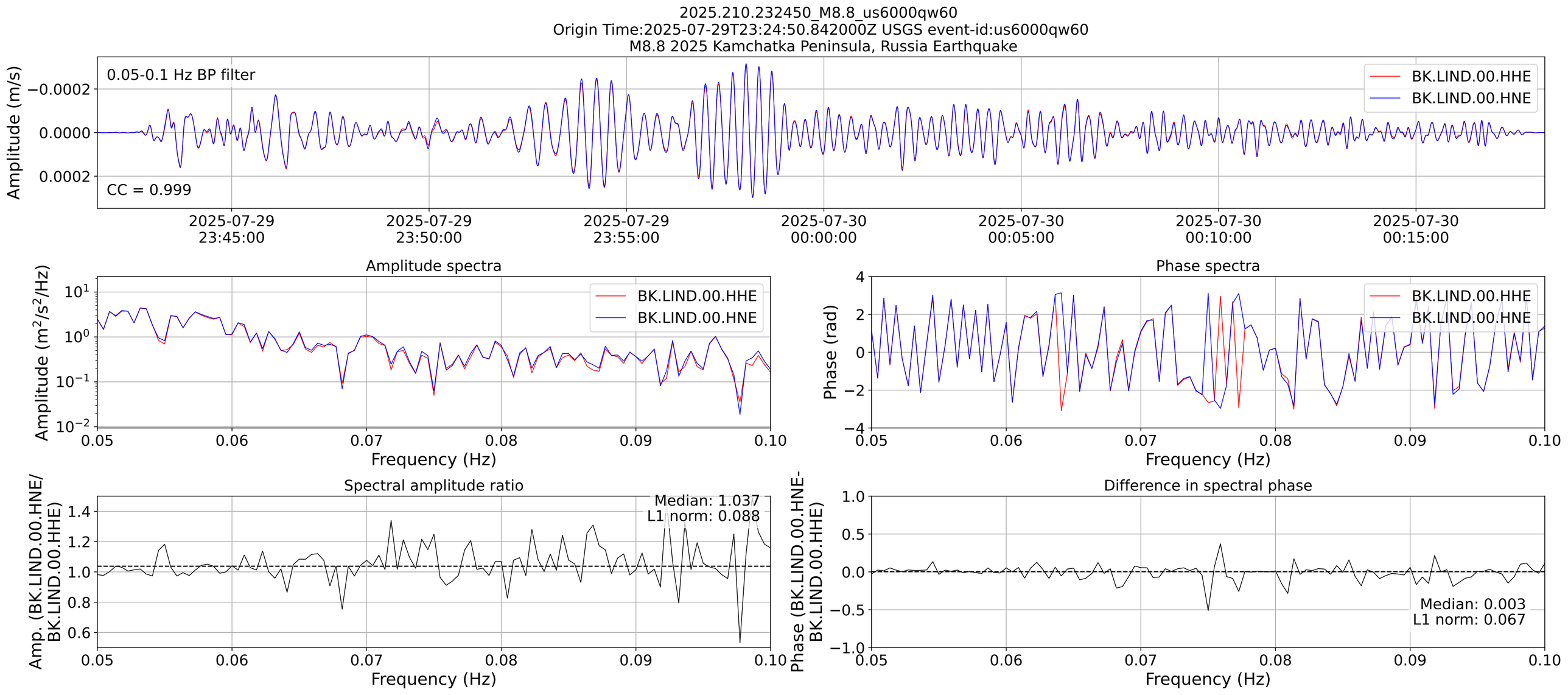

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
BK.LEGD.00.HHN
BK.LEGD.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNN/ BK.LEGD.00.HHN)
Median: 1.052
L1 norm: 0.089
Difference in spectral phase
Phase (BK.LEGD.00.HNN- BK.LEGD.00.HHN)
Median: 0.014
L1 norm: 0.065

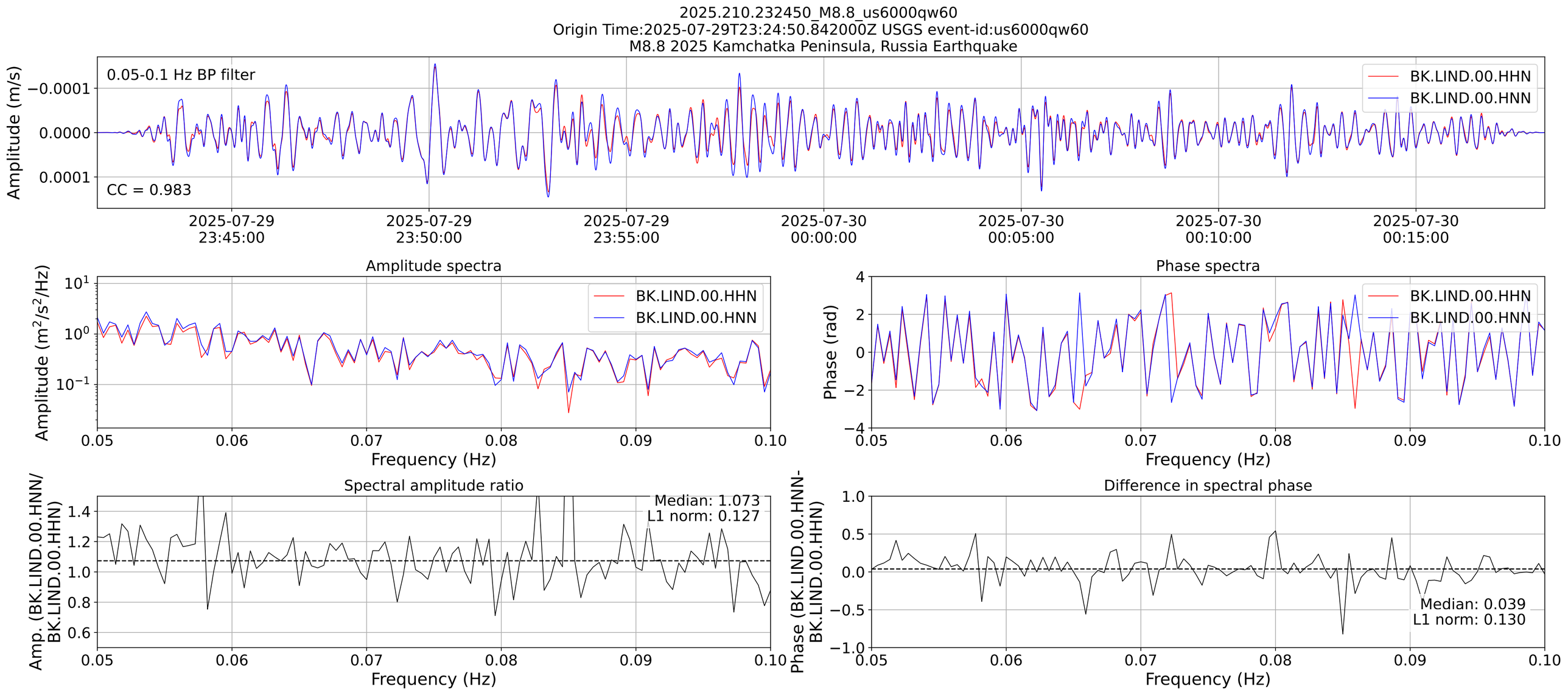

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LEGD.00.HHZ
BK.LEGD.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNZ/ BK.LEGD.00.HHZ)
Median: 1.067
L1 norm: 0.058
Difference in spectral phase
Phase (BK.LEGD.00.HNZ- BK.LEGD.00.HHZ)
Median: -0.006
L1 norm: 0.042

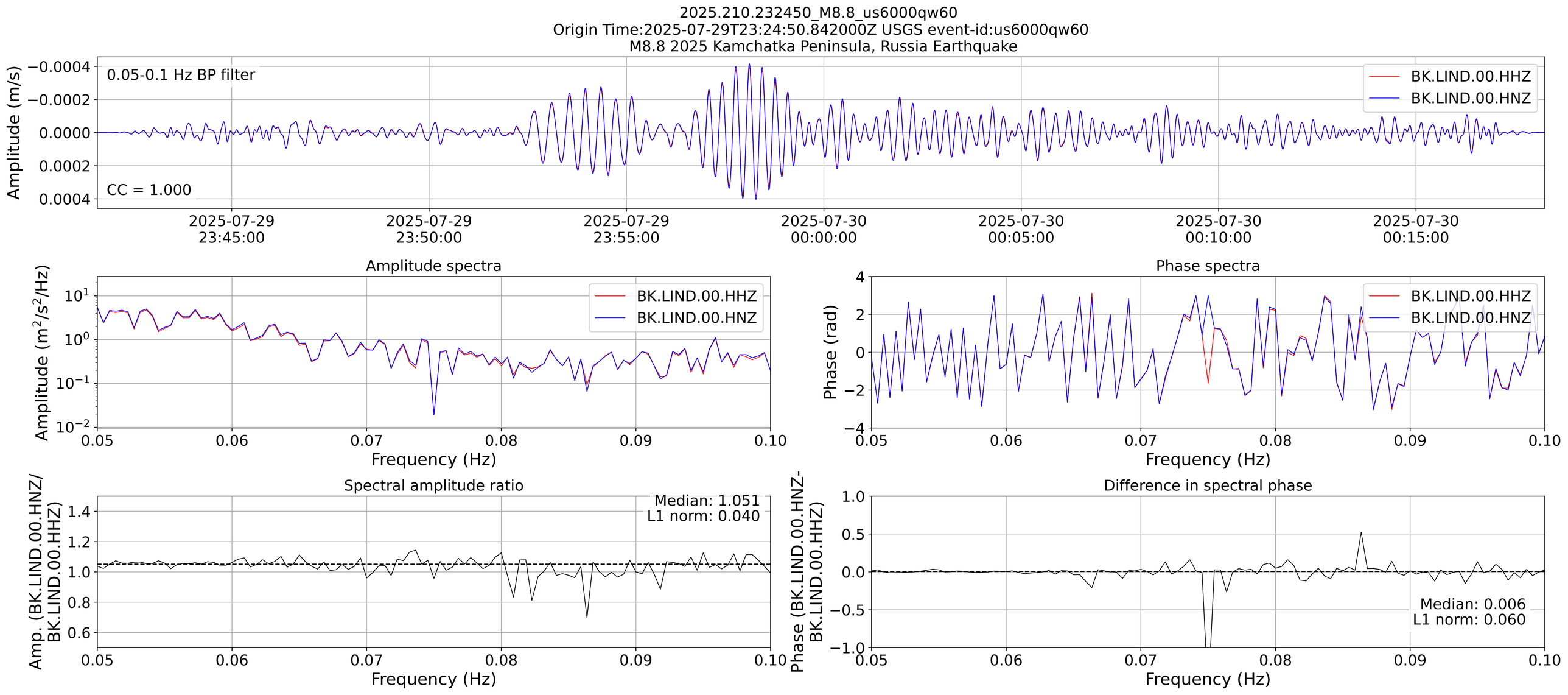

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LGMB.00.HHE
BK.LGMB.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNE/ BK.LGMB.00.HHE)
Median: 1.001
L1 norm: 0.030
Difference in spectral phase
Phase (BK.LGMB.00.HNE- BK.LGMB.00.HHE)
Median: 0.001
L1 norm: 0.035

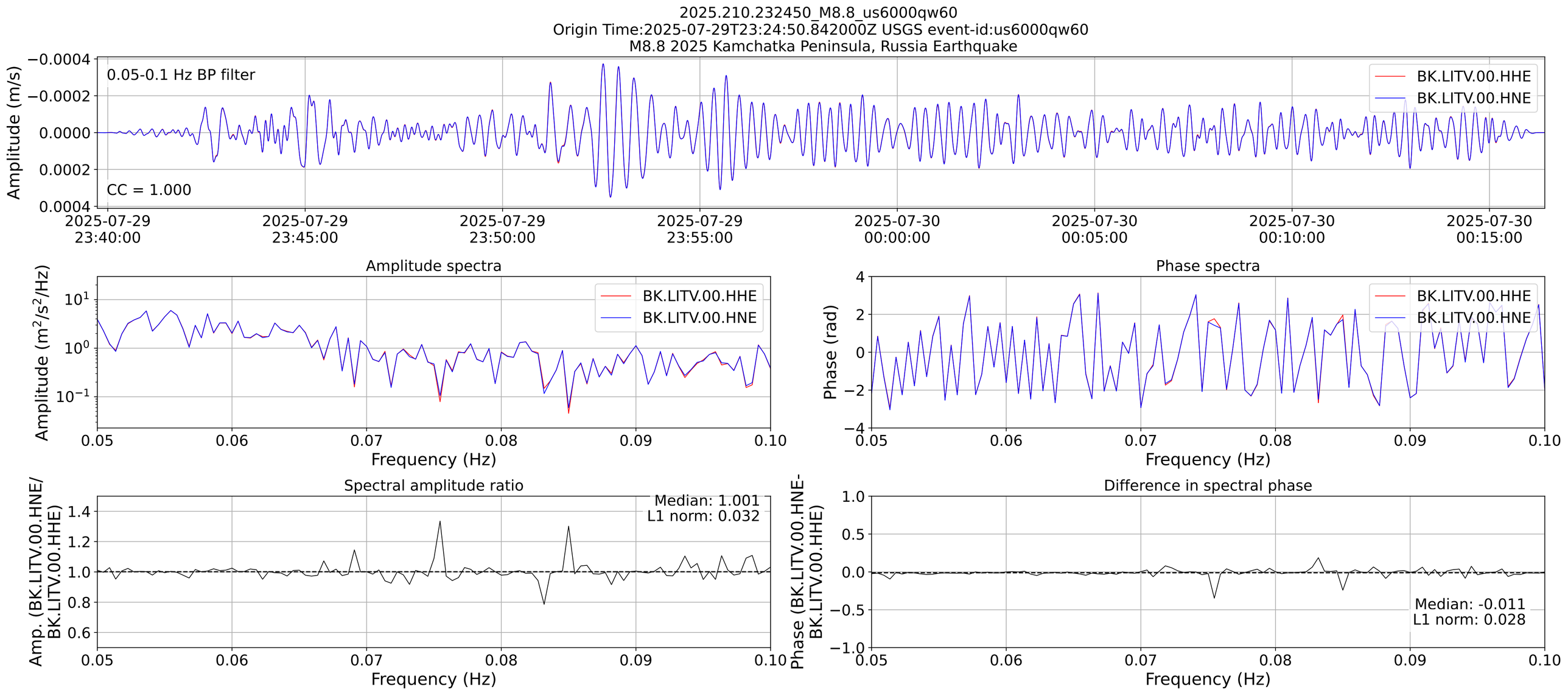

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LGMB.00.HHN
BK.LGMB.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNN/ BK.LGMB.00.HHN)
Median: 1.015
L1 norm: 0.031
Difference in spectral phase
Phase (BK.LGMB.00.HNN- BK.LGMB.00.HHN)
Median: 0.001
L1 norm: 0.028

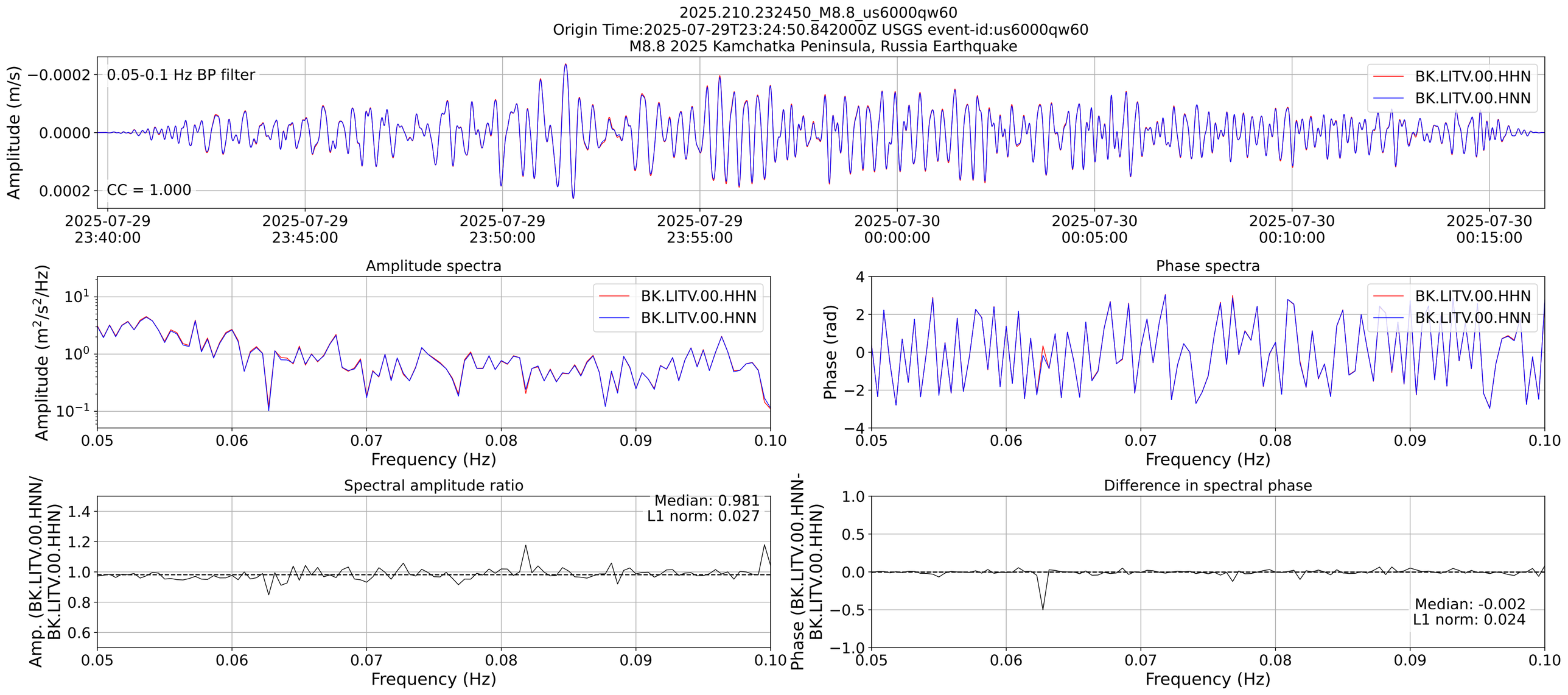

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LGMB.00.HHZ
BK.LGMB.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNZ/ BK.LGMB.00.HHZ)
Median: 1.008
L1 norm: 0.023
Difference in spectral phase
Phase (BK.LGMB.00.HNZ- BK.LGMB.00.HHZ)
Median: -0.003
L1 norm: 0.027

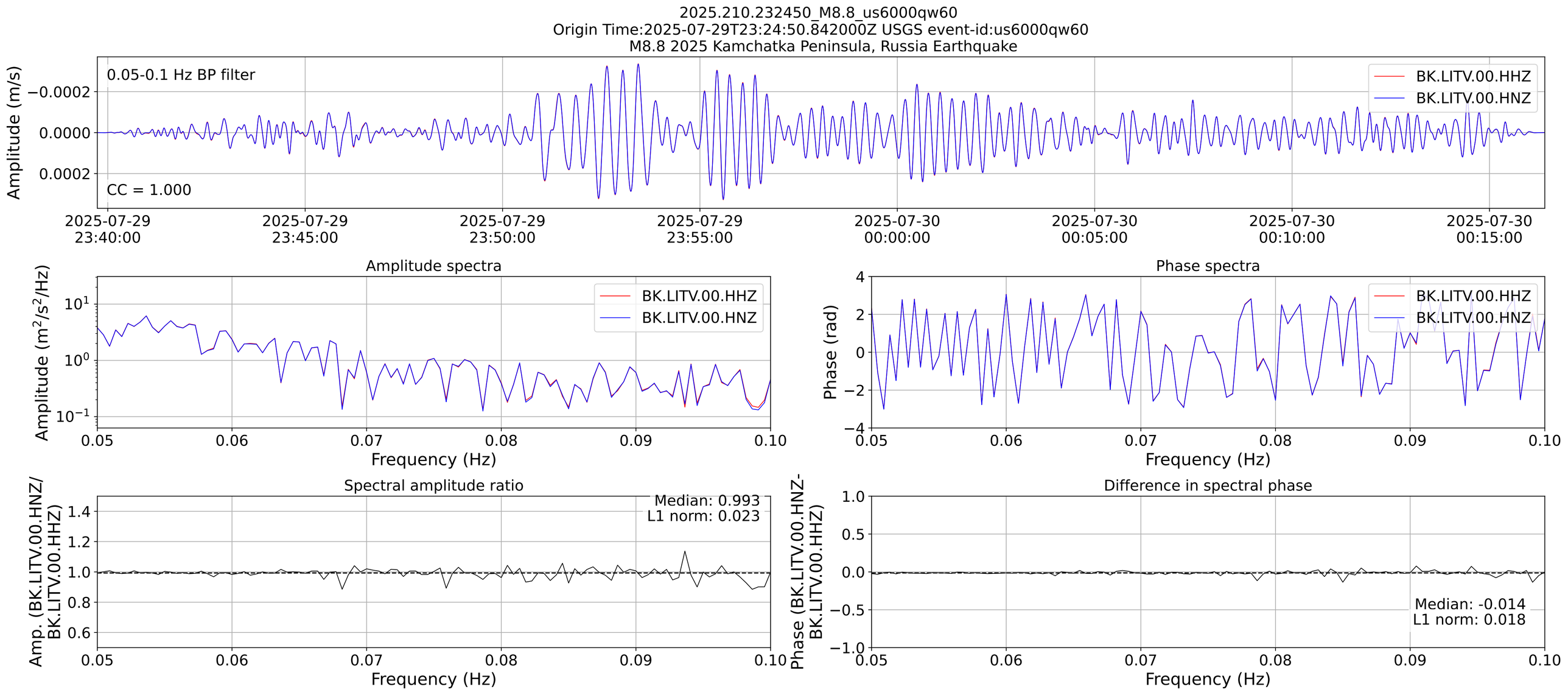

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LIND.00.HHE
BK.LIND.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNE/ BK.LIND.00.HHE)
Median: 1.037
L1 norm: 0.088
Difference in spectral phase
Phase (BK.LIND.00.HNE- BK.LIND.00.HHE)
Median: 0.003
L1 norm: 0.067

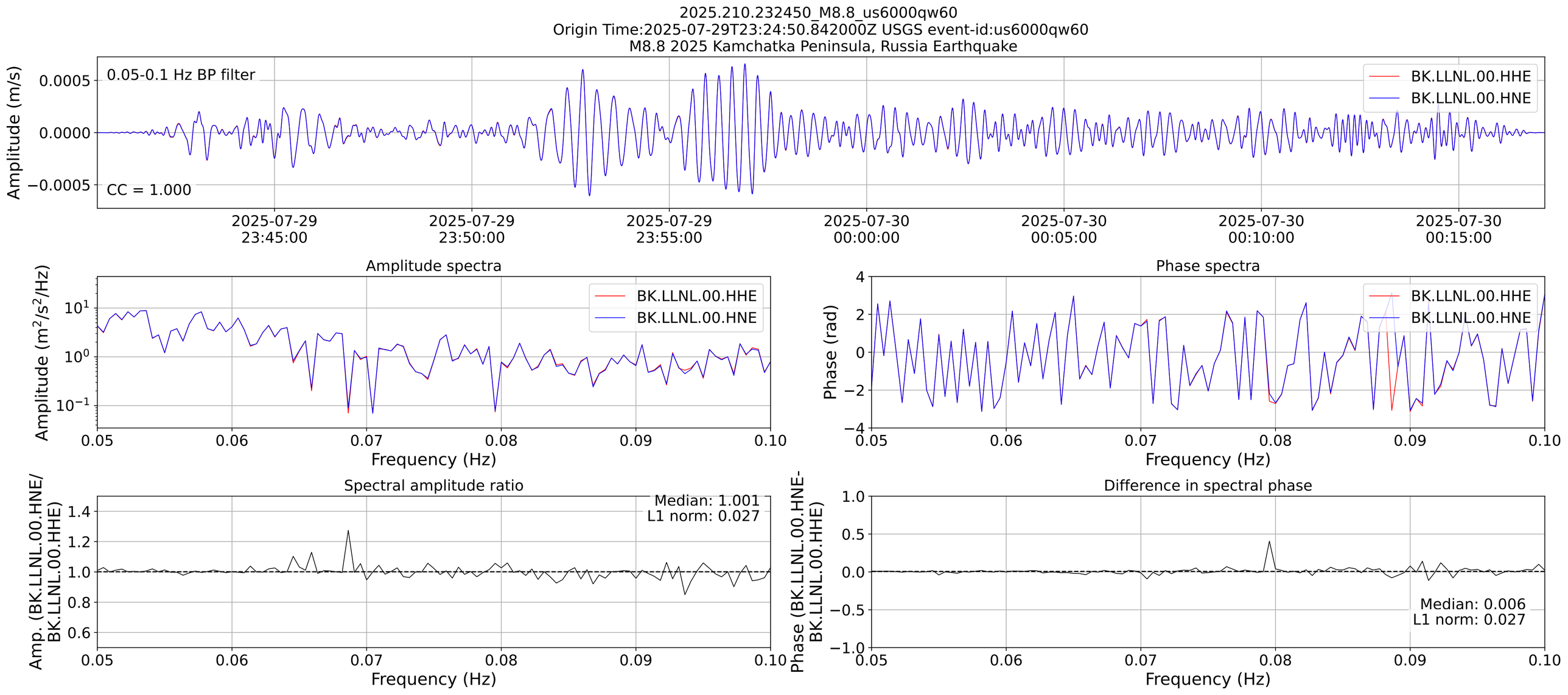

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.983
BK.LIND.00.HHN
BK.LIND.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNN/ BK.LIND.00.HHN)
Median: 1.073
L1 norm: 0.127
Difference in spectral phase
Phase (BK.LIND.00.HNN- BK.LIND.00.HHN)
Median: 0.039
L1 norm: 0.130

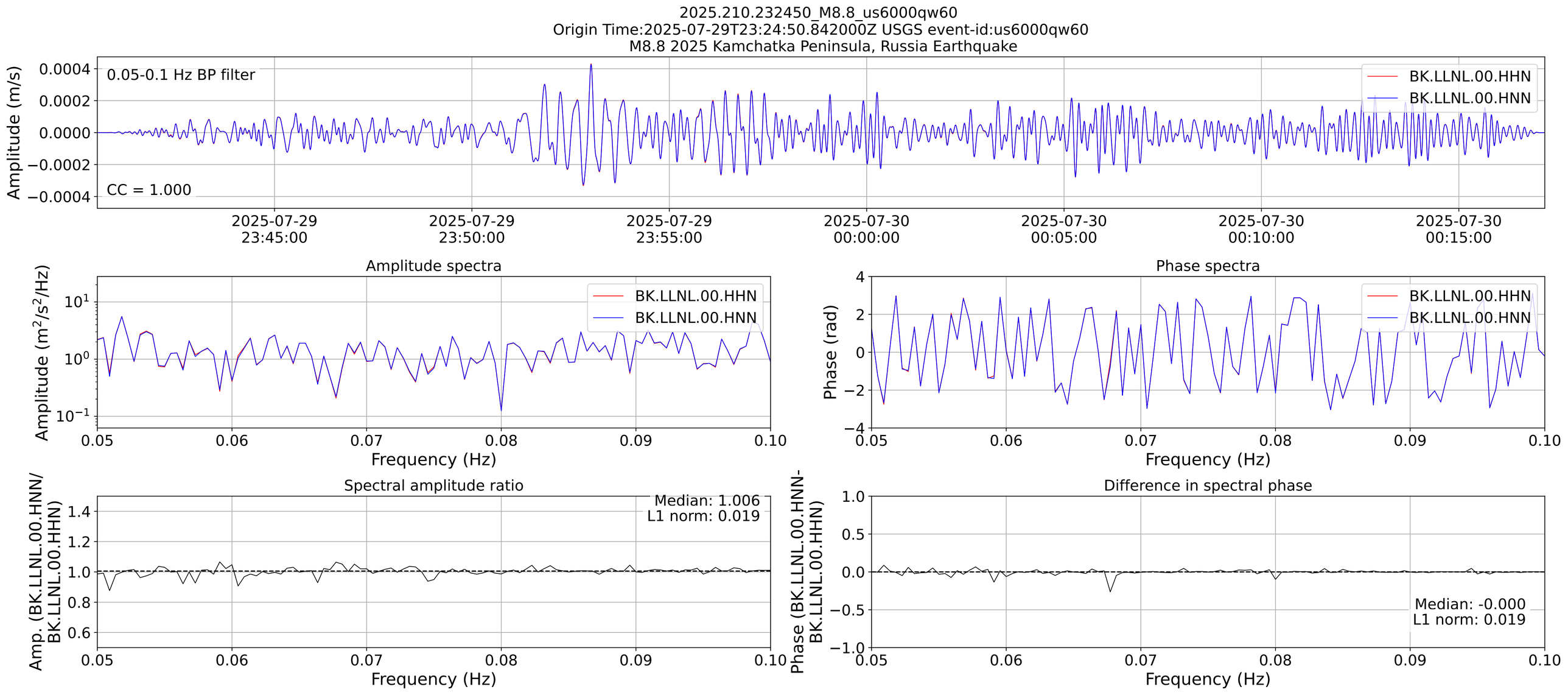

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LIND.00.HHZ
BK.LIND.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNZ/ BK.LIND.00.HHZ)
Median: 1.051
L1 norm: 0.040
Difference in spectral phase
Phase (BK.LIND.00.HNZ- BK.LIND.00.HHZ)
Median: 0.006
L1 norm: 0.060

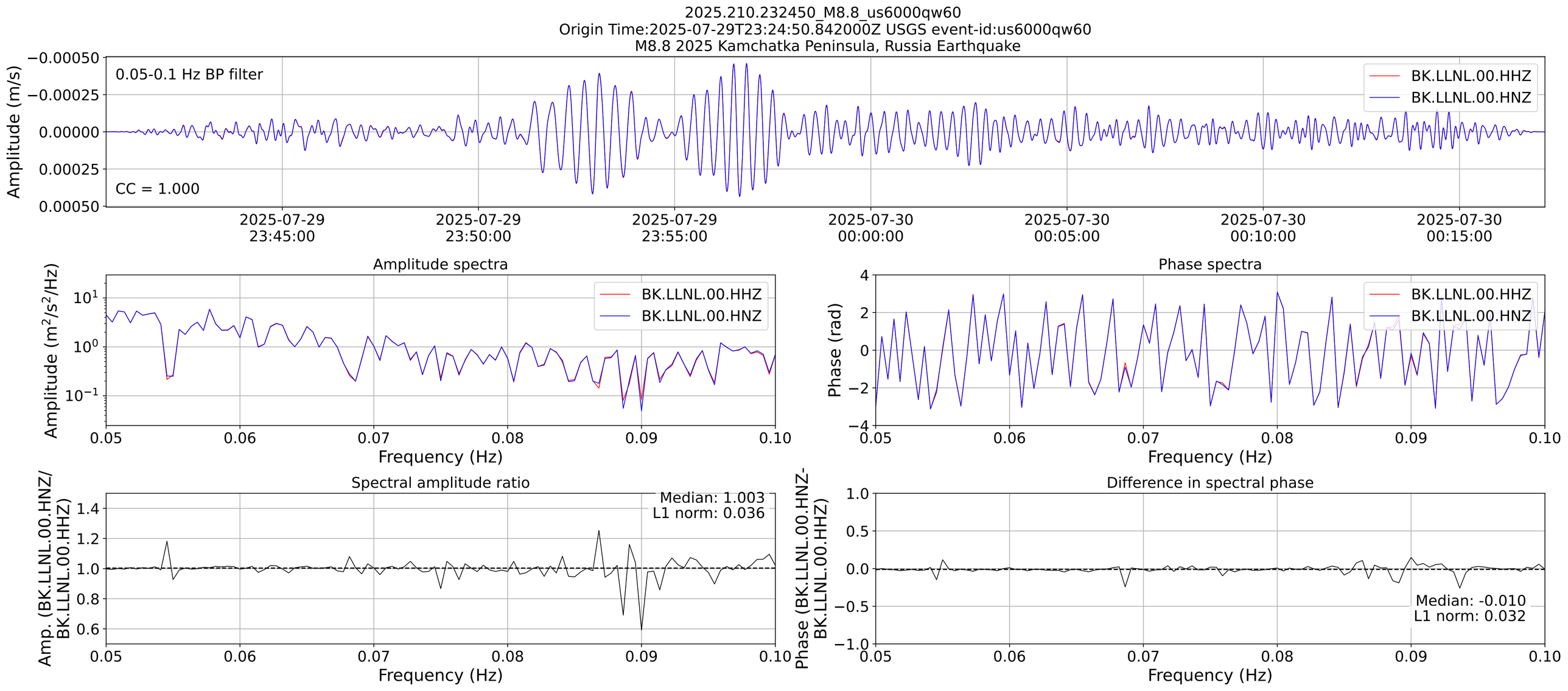

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LITV.00.HHE
BK.LITV.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNE/ BK.LITV.00.HHE)
Median: 1.001
L1 norm: 0.032
Difference in spectral phase
Phase (BK.LITV.00.HNE- BK.LITV.00.HHE)
Median: -0.011
L1 norm: 0.028

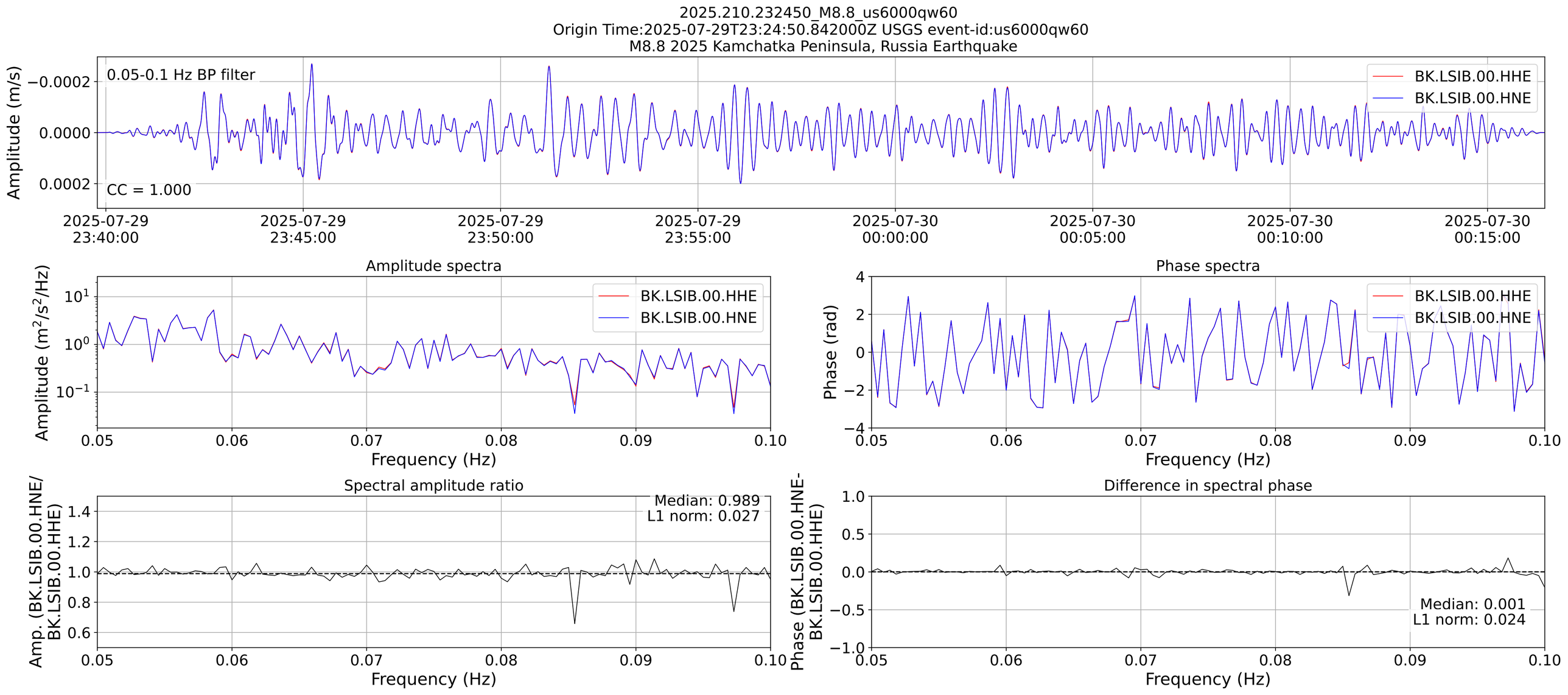

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LITV.00.HHN
BK.LITV.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNN/ BK.LITV.00.HHN)
Median: 0.981
L1 norm: 0.027
Difference in spectral phase
Phase (BK.LITV.00.HNN- BK.LITV.00.HHN)
Median: -0.002
L1 norm: 0.024

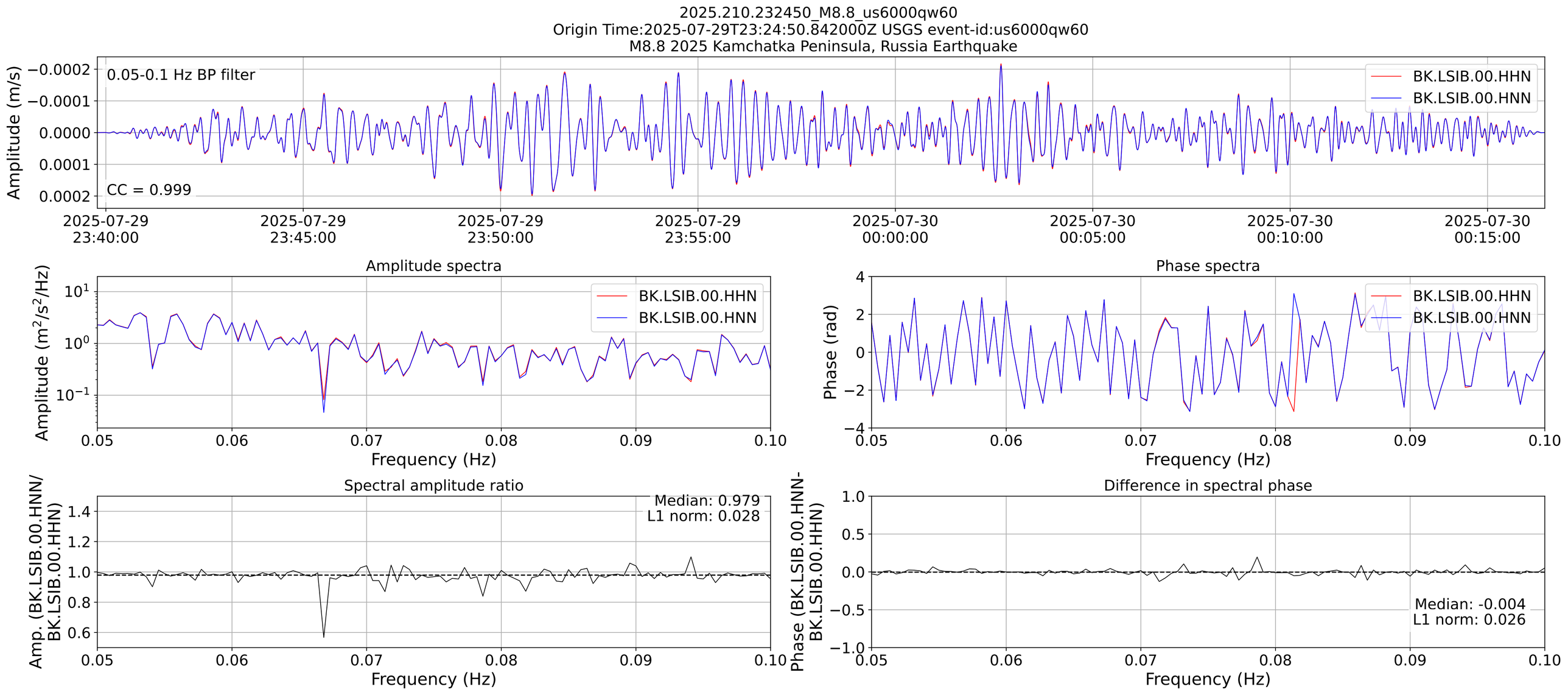

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LITV.00.HHZ
BK.LITV.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNZ/ BK.LITV.00.HHZ)
Median: 0.993
L1 norm: 0.023
Difference in spectral phase
Phase (BK.LITV.00.HNZ- BK.LITV.00.HHZ)
Median: -0.014
L1 norm: 0.018

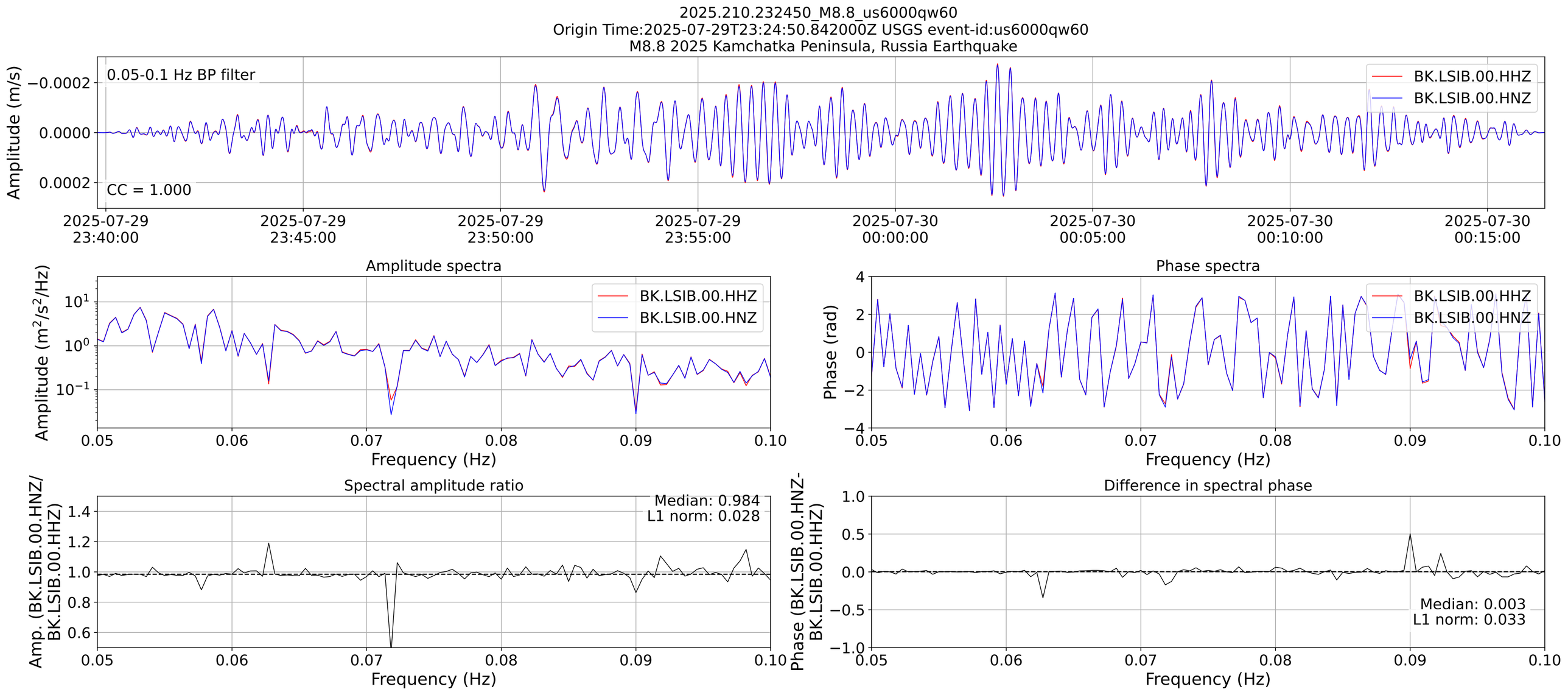

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LLNL.00.HHE
BK.LLNL.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNE/ BK.LLNL.00.HHE)
Median: 1.001
L1 norm: 0.027
Difference in spectral phase
Phase (BK.LLNL.00.HNE- BK.LLNL.00.HHE)
Median: 0.006
L1 norm: 0.027

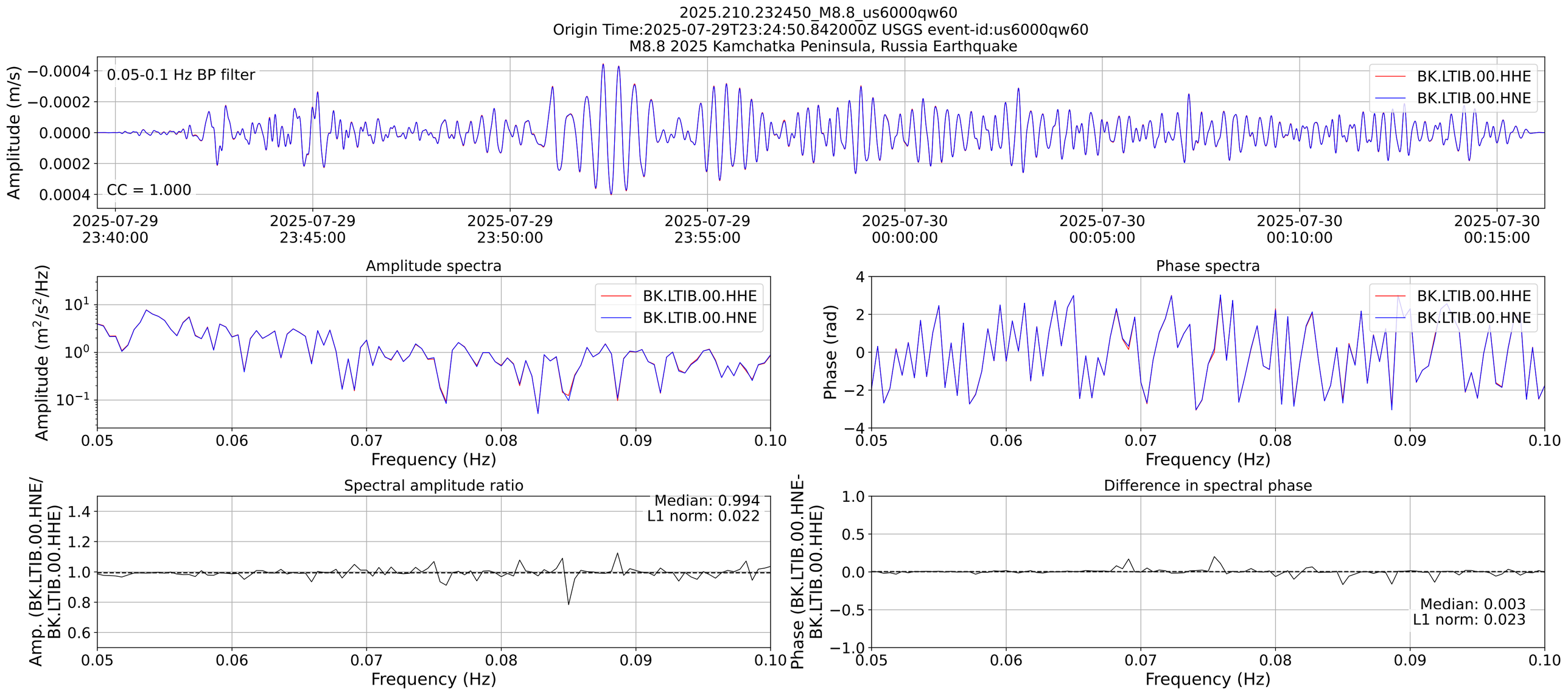

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LLNL.00.HHN
BK.LLNL.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNN/ BK.LLNL.00.HHN)
Median: 1.006
L1 norm: 0.019
Difference in spectral phase
Phase (BK.LLNL.00.HNN- BK.LLNL.00.HHN)
Median: -0.000
L1 norm: 0.019

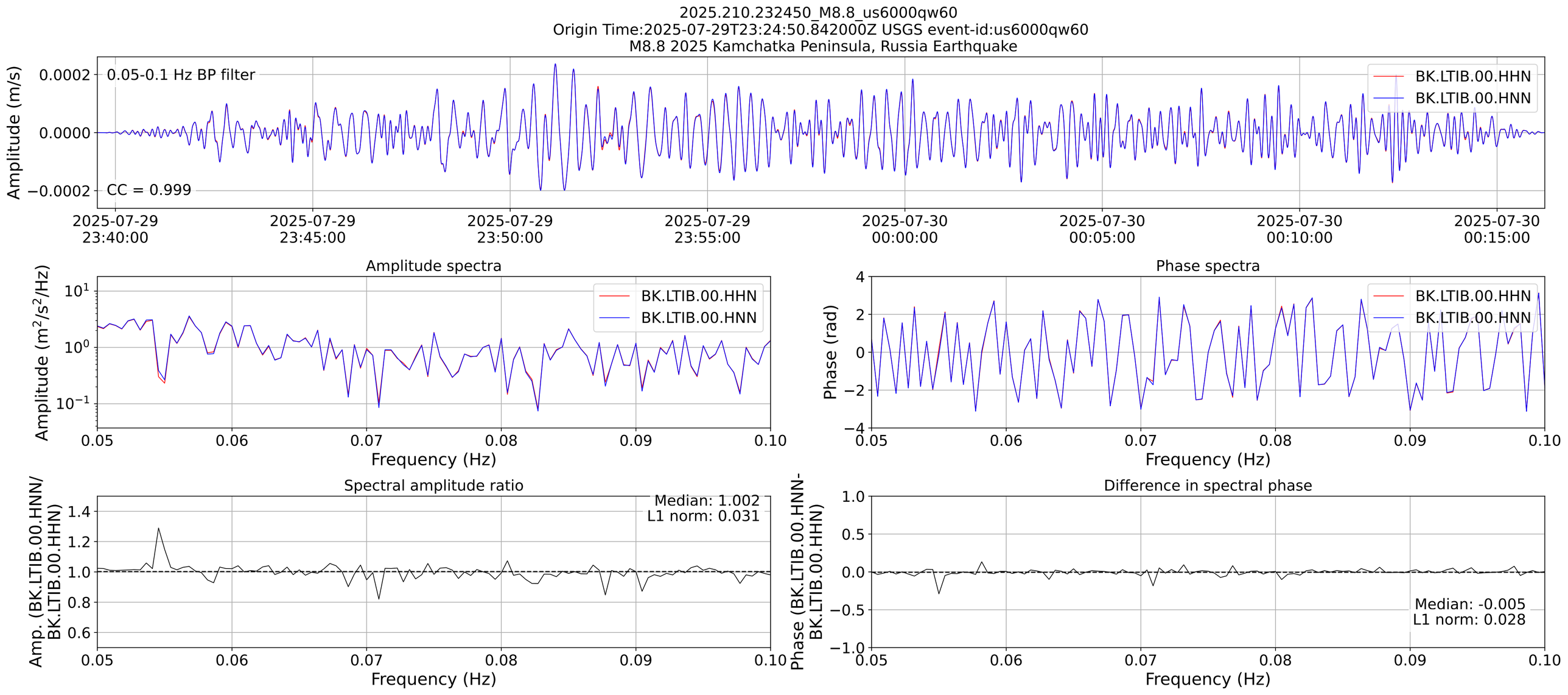

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LLNL.00.HHZ
BK.LLNL.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNZ/ BK.LLNL.00.HHZ)
Median: 1.003
L1 norm: 0.036
Difference in spectral phase
Phase (BK.LLNL.00.HNZ- BK.LLNL.00.HHZ)
Median: -0.010
L1 norm: 0.032

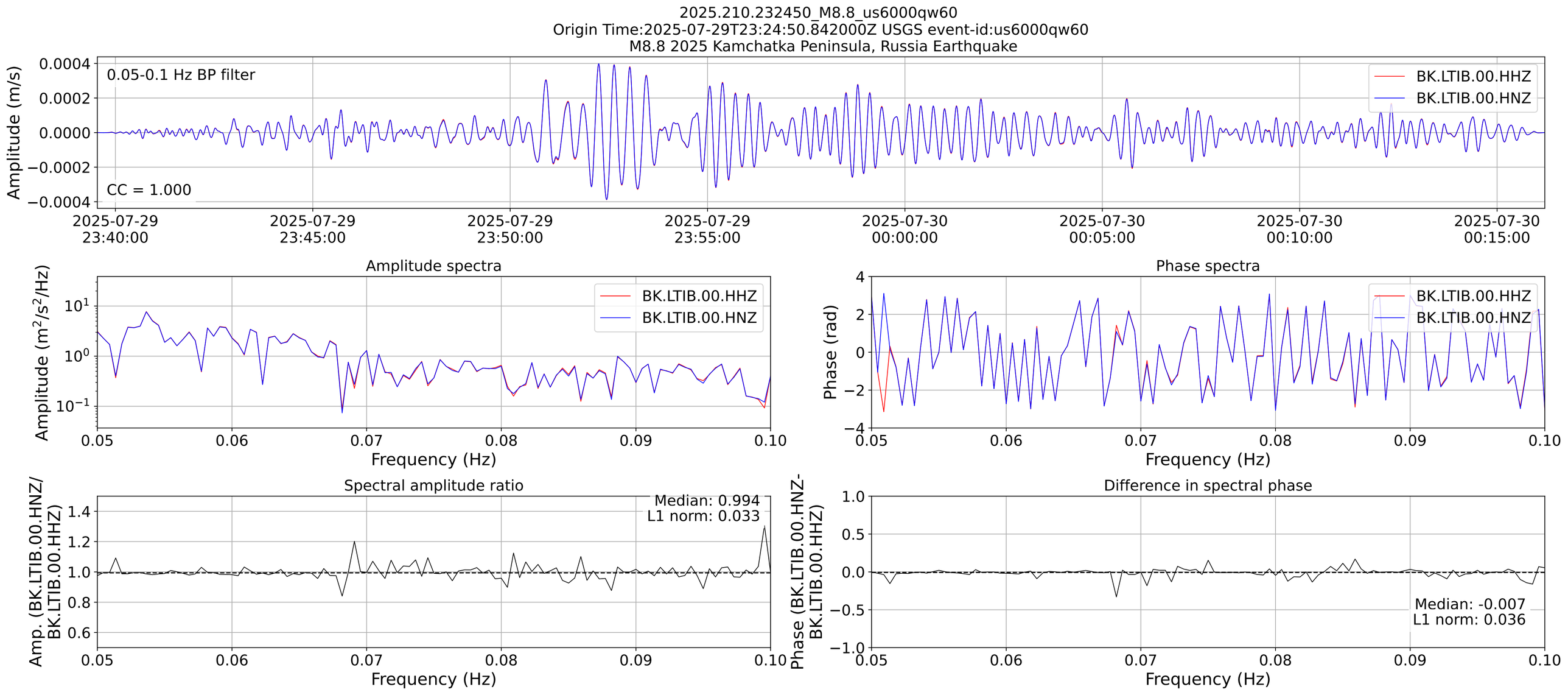

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LSIB.00.HHE
BK.LSIB.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNE/ BK.LSIB.00.HHE)
Median: 0.989
L1 norm: 0.027
Difference in spectral phase
Phase (BK.LSIB.00.HNE- BK.LSIB.00.HHE)
Median: 0.001
L1 norm: 0.024

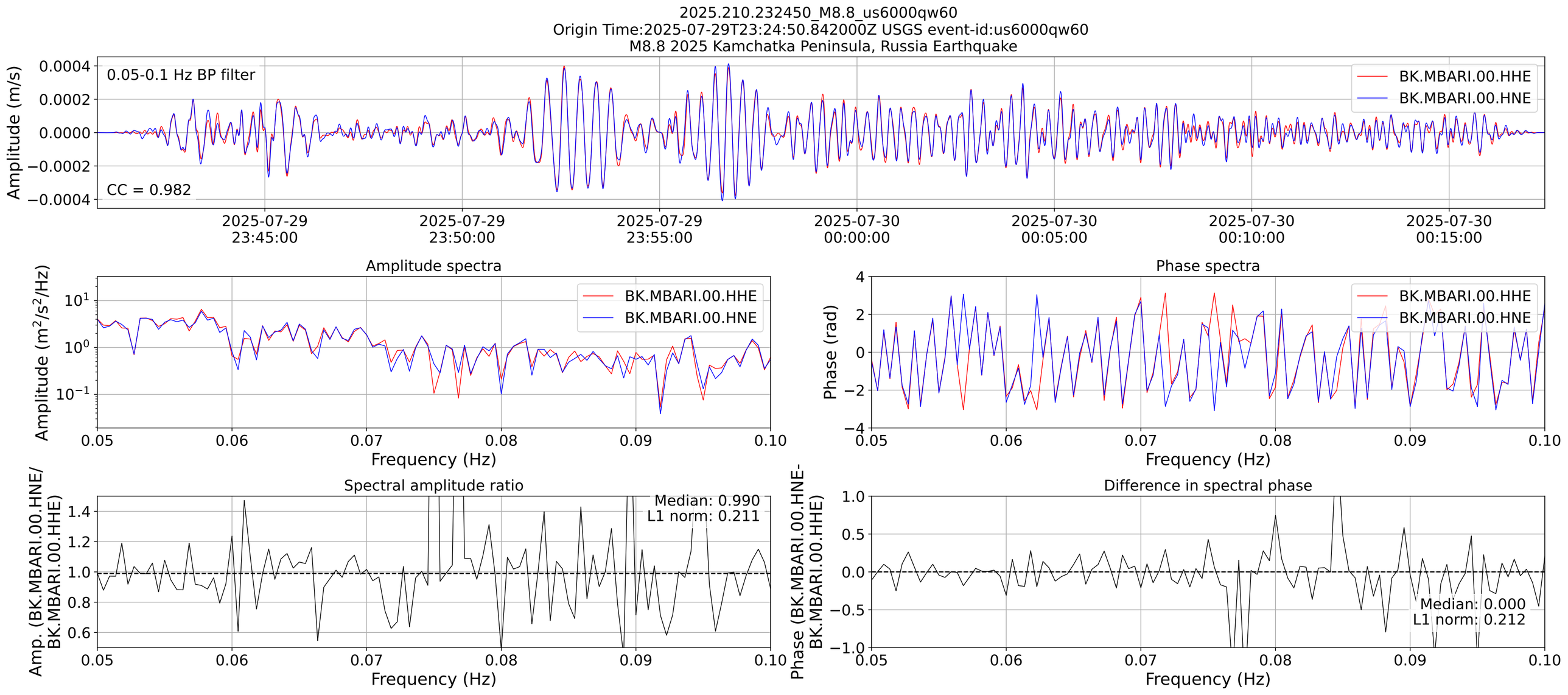

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LSIB.00.HHN
BK.LSIB.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNN/ BK.LSIB.00.HHN)
Median: 0.979
L1 norm: 0.028
Difference in spectral phase
Phase (BK.LSIB.00.HNN-BK.LSIB.00.HHN)
Median: -0.004
L1 norm: 0.026

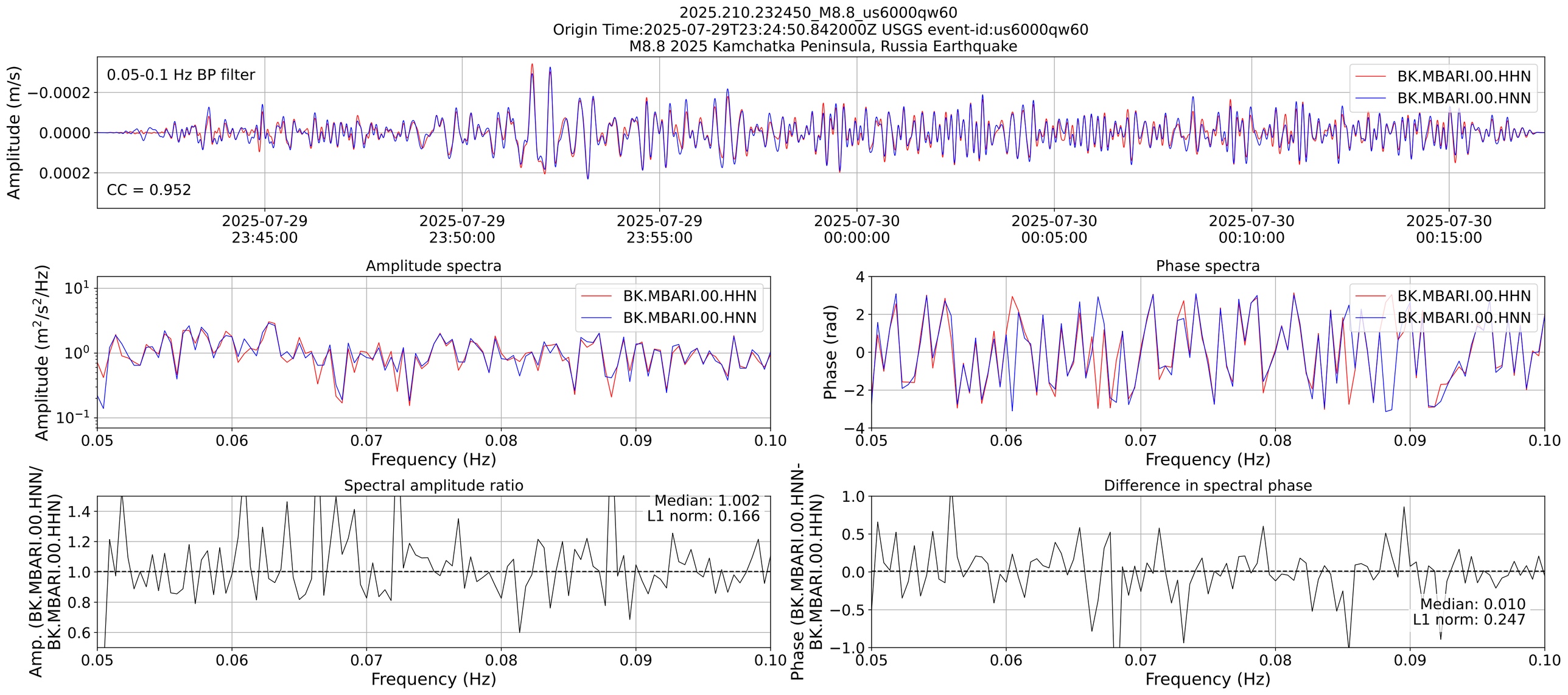

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LSIB.00.HHZ
BK.LSIB.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNZ/ BK.LSIB.00.HHZ)
Median: 0.984
L1 norm: 0.028
Difference in spectral phase
Phase (BK.LSIB.00.HNZ- BK.LSIB.00.HHZ)
Median: 0.003
L1 norm: 0.033

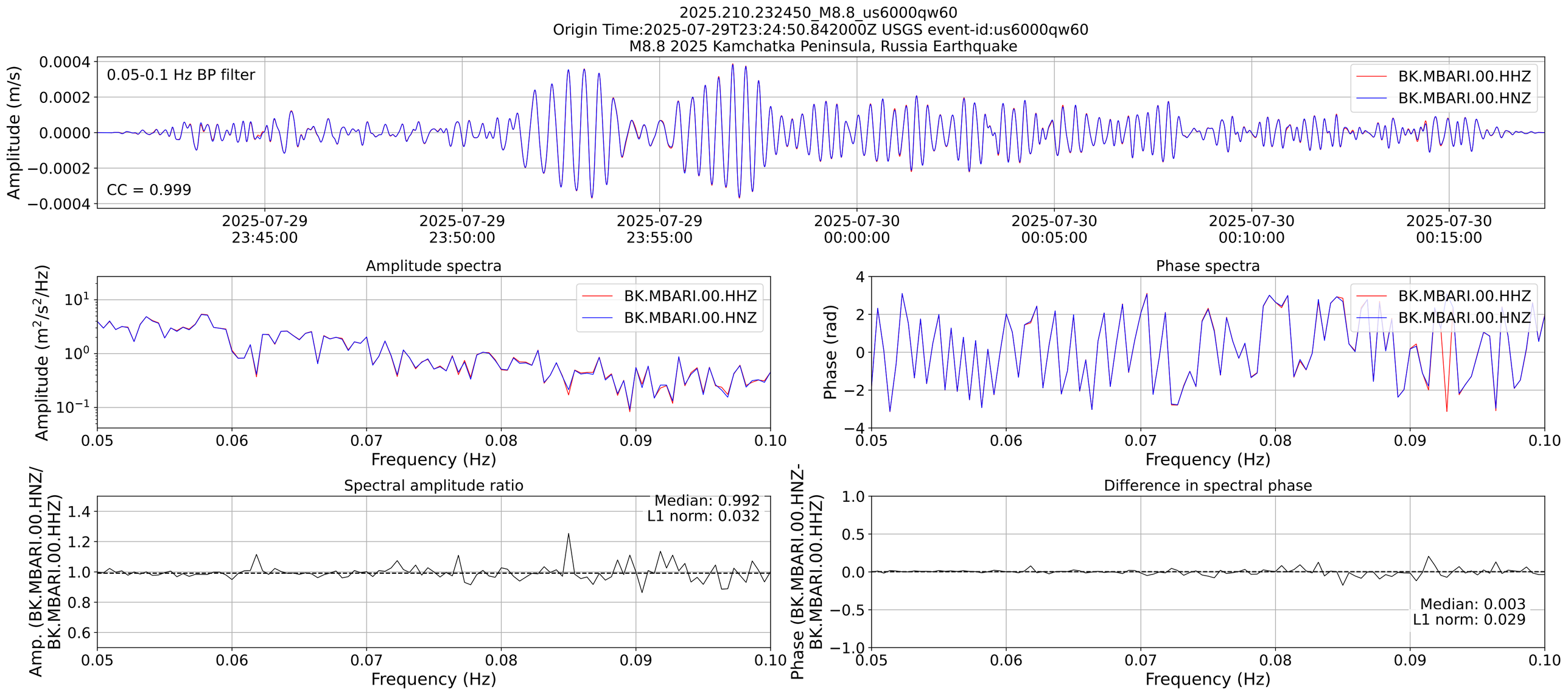

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LTIB.00.HHE
BK.LTIB.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNE/ BK.LTIB.00.HHE)
Median: 0.994
L1 norm: 0.022
Difference in spectral phase
Phase (BK.LTIB.00.HNE- BK.LTIB.00.HHE)
Median: 0.003
L1 norm: 0.023

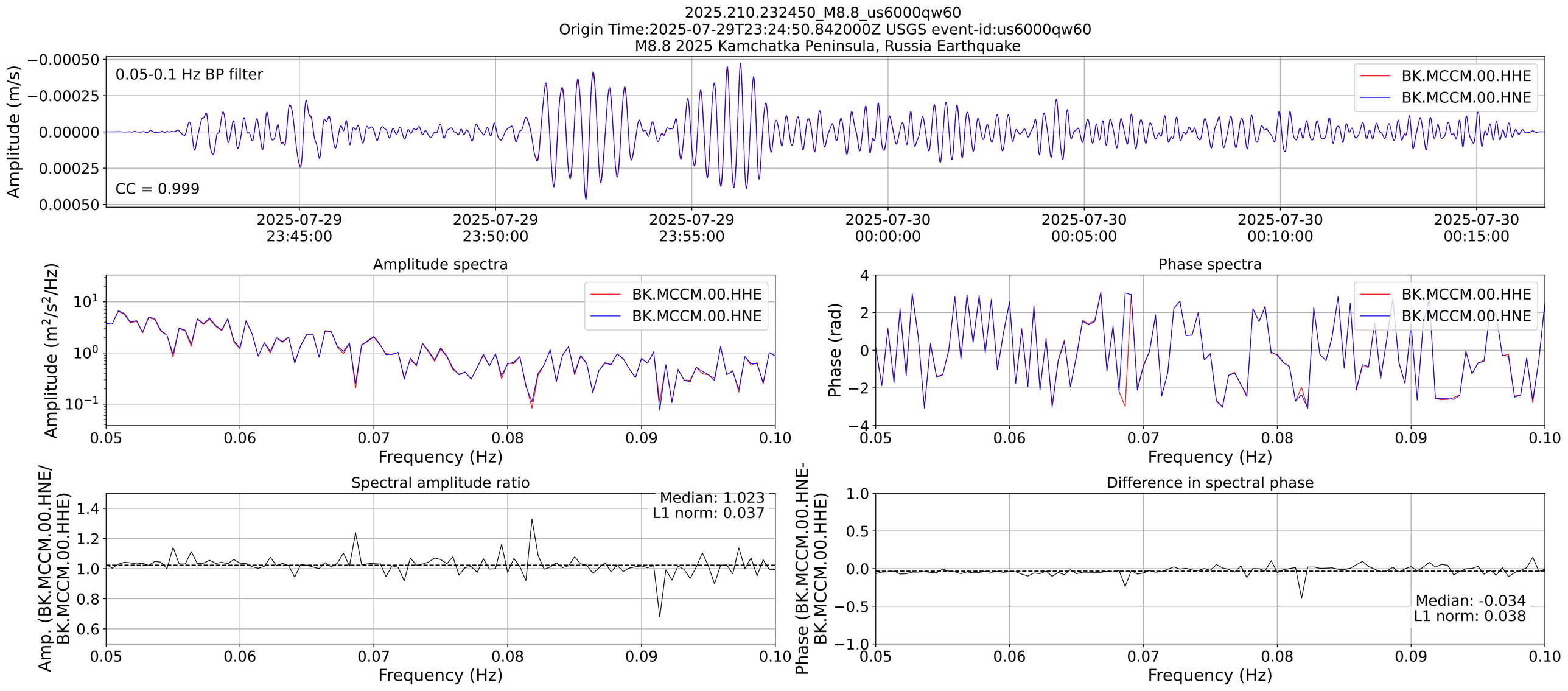

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.LTIB.00.HHN
BK.LTIB.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNN/ BK.LTIB.00.HHN)
Median: 1.002
L1 norm: 0.031
Difference in spectral phase
Phase (BK.LTIB.00.HNN-BK.LTIB.00.HHN)
Median: -0.005
L1 norm: 0.028

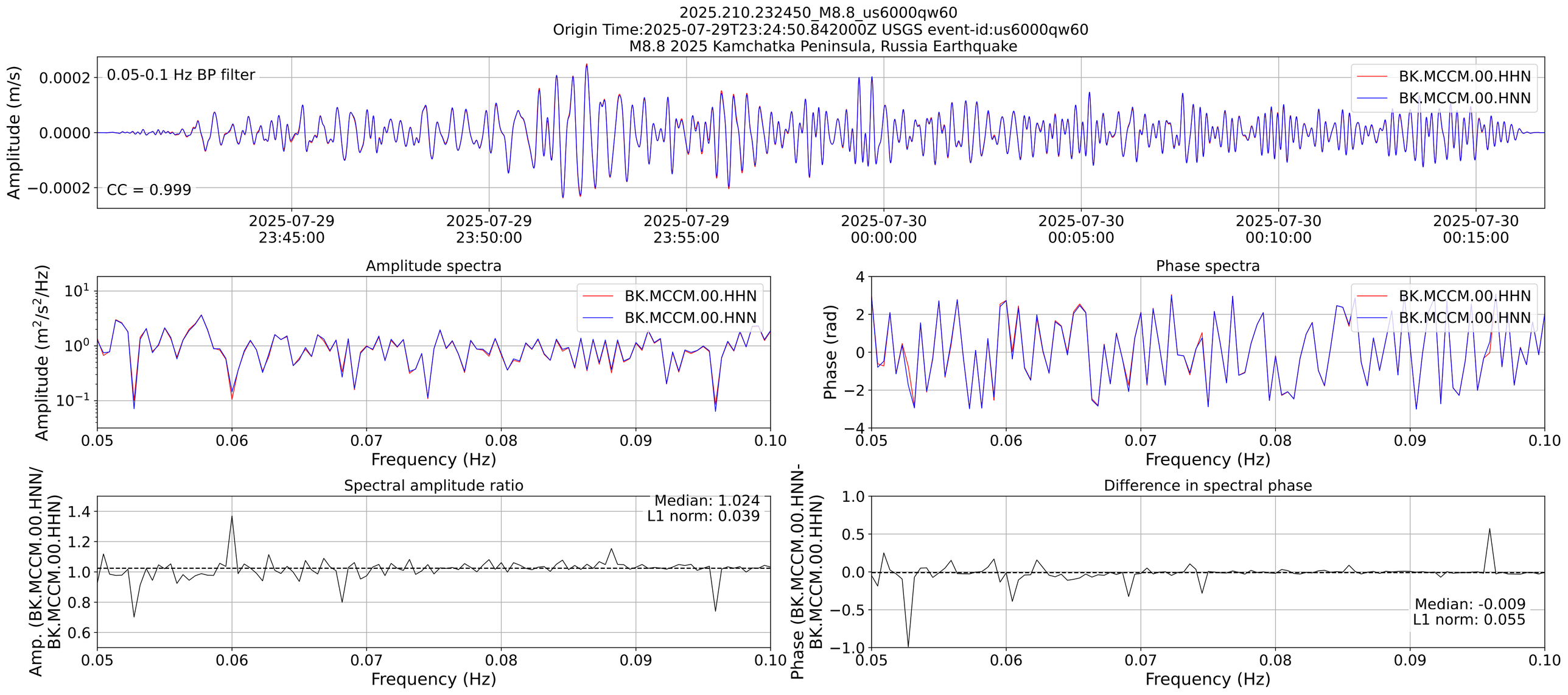

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.LTIB.00.HHZ
BK.LTIB.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNZ/ BK.LTIB.00.HHZ)
Median: 0.994
L1 norm: 0.033
Difference in spectral phase
Phase (BK.LTIB.00.HNZ- BK.LTIB.00.HHZ)
Median: -0.007
L1 norm: 0.036

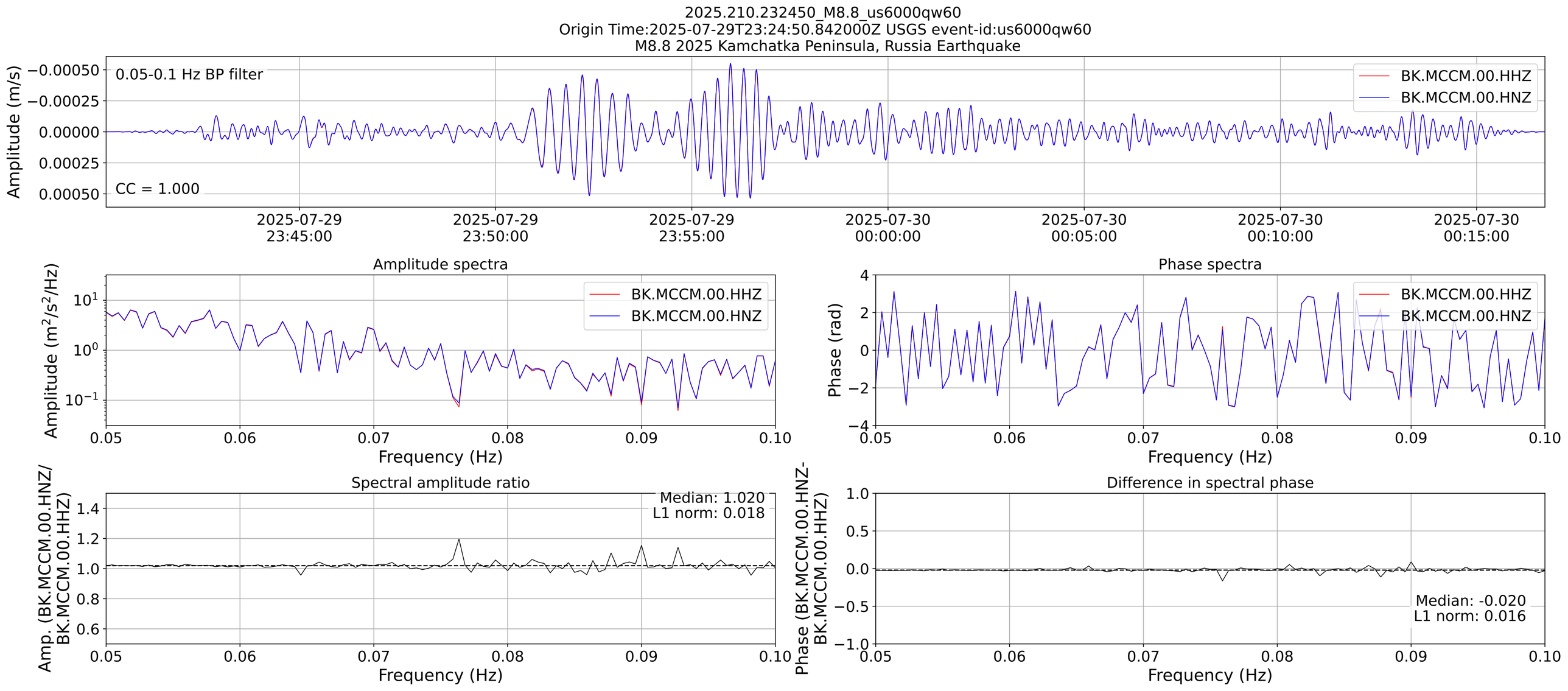

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.982
BK.MBARI.00.HHE
BK.MBARI.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MBARI.00.HNE/ BK.MBARI.00.HHE)
Median: 0.990
L1 norm: 0.211
Difference in spectral phase
Phase (BK.MBARI.00.HNE- BK.MBARI.00.HHE)
Median: 0.000
L1 norm: 0.212

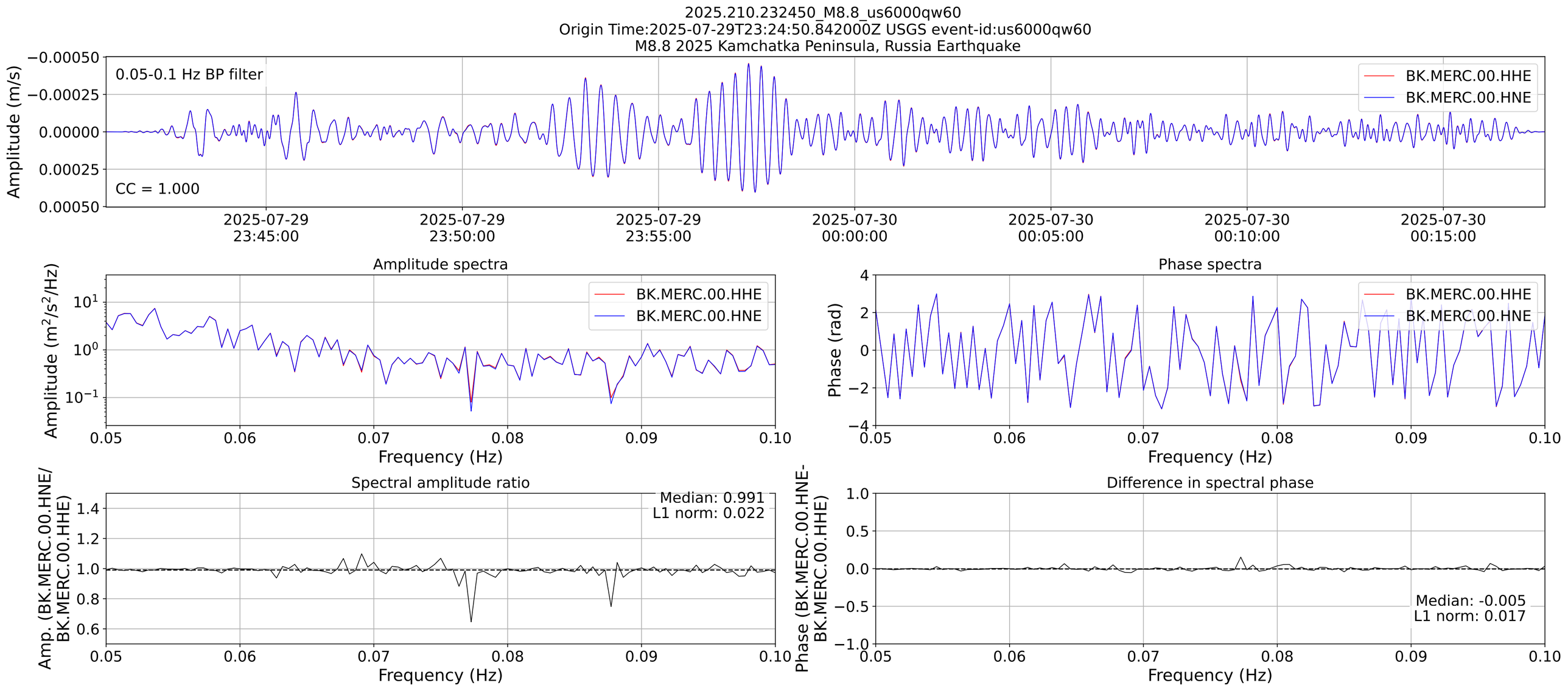

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.952
BK.MBARI.00.HHN
BK.MBARI.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MBARI.00.HNN/ BK.MBARI.00.HHN)
Median: 1.002
L1 norm: 0.166
Difference in spectral phase
Phase (BK.MBARI.00.HNN- BK.MBARI.00.HHN)
Median: 0.010
L1 norm: 0.247

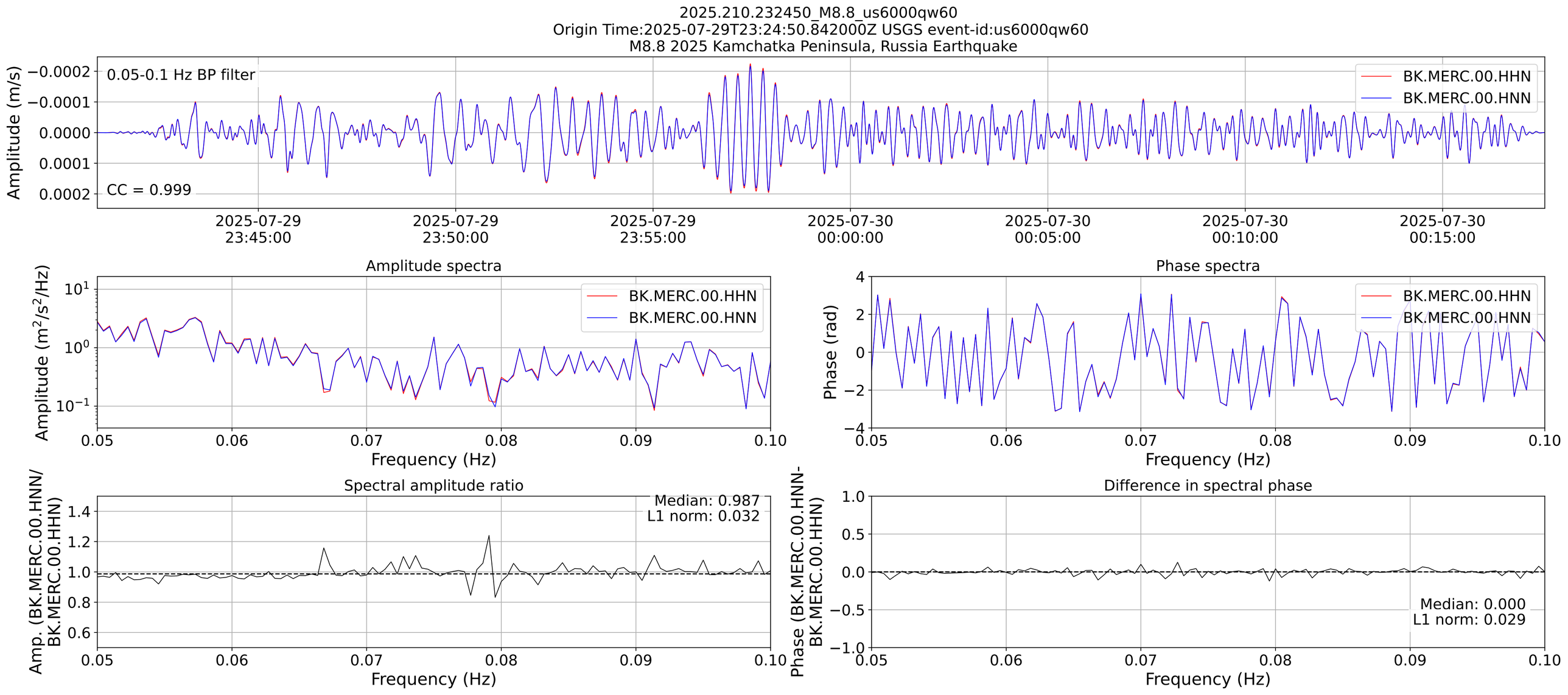

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.MBARI.00.HHZ
BK.MBARI.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MBARI.00.HNZ/ BK.MBARI.00.HHZ)
Median: 0.992
L1 norm: 0.032
Difference in spectral phase
Phase (BK.MBARI.00.HNZ- BK.MBARI.00.HHZ)
Median: 0.003
L1 norm: 0.029

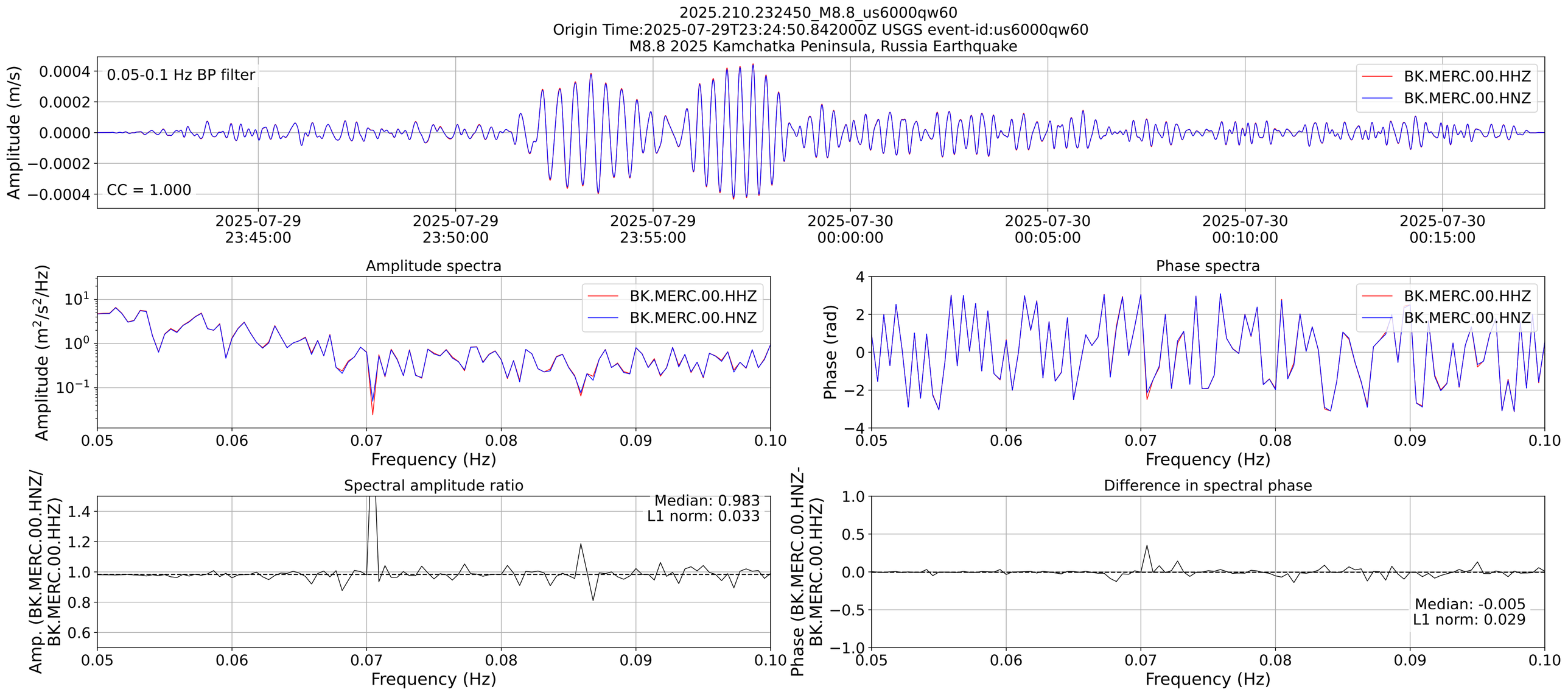

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.MCCM.00.HHE
BK.MCCM.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNE/ BK.MCCM.00.HHE)
Median: 1.023
L1 norm: 0.037
Difference in spectral phase
Phase (BK.MCCM.00.HNE- BK.MCCM.00.HHE)
Median: -0.034
L1 norm: 0.038

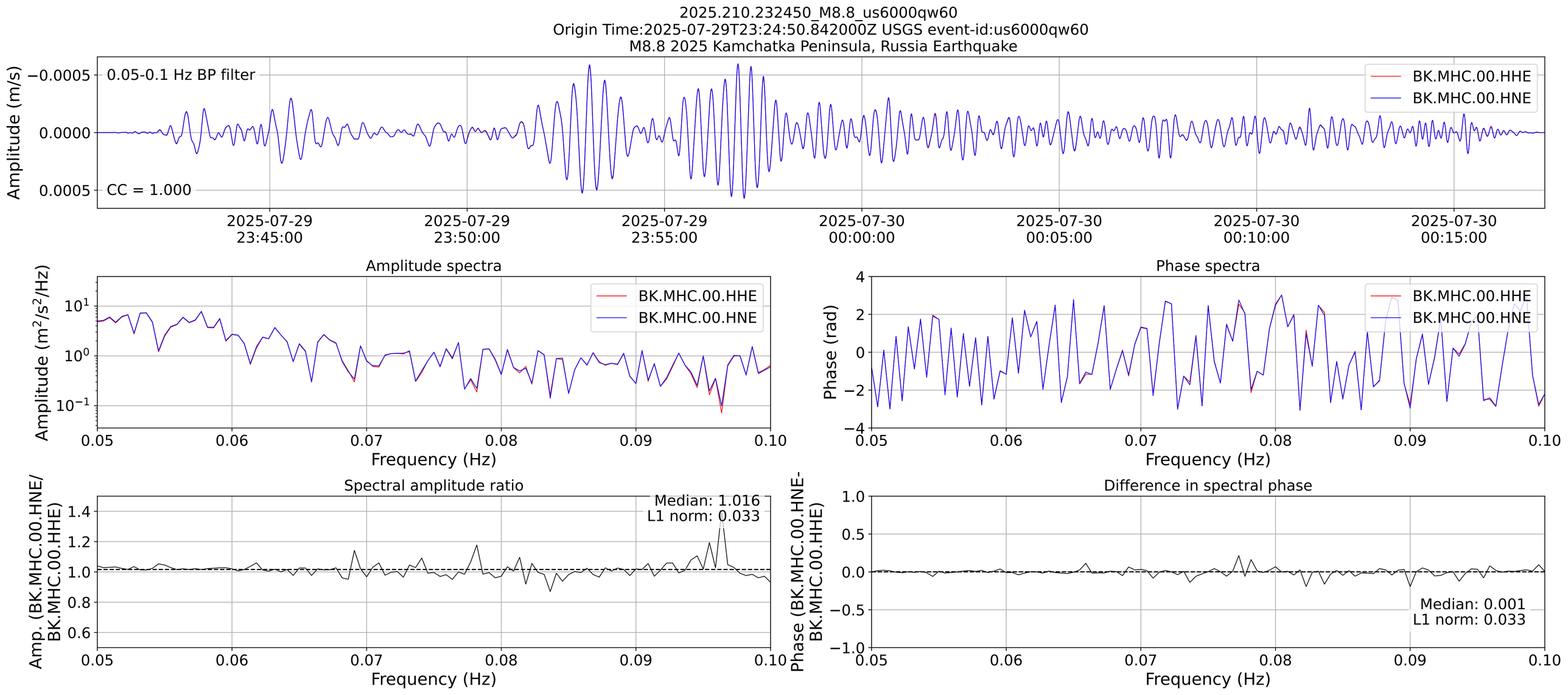

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.MCCM.00.HHN
BK.MCCM.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNN/ BK.MCCM.00.HHN)
Median: 1.024
L1 norm: 0.039
Difference in spectral phase
Phase (BK.MCCM.00.HNN- BK.MCCM.00.HHN)
Median: -0.009
L1 norm: 0.055

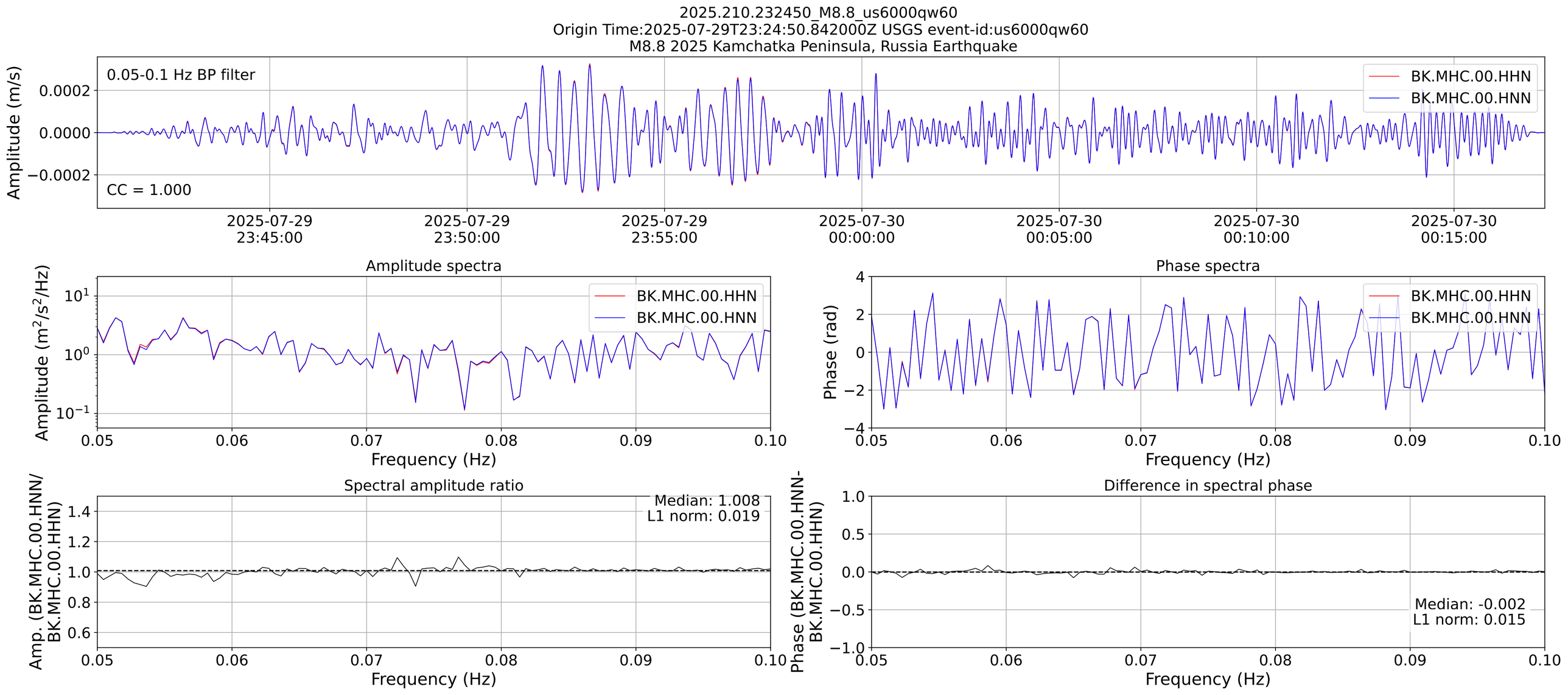

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MCCM.00.HHZ
BK.MCCM.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNZ/ BK.MCCM.00.HHZ)
Median: 1.020
L1 norm: 0.018
Difference in spectral phase
Phase (BK.MCCM.00.HNZ- BK.MCCM.00.HHZ)
Median: -0.020
L1 norm: 0.016

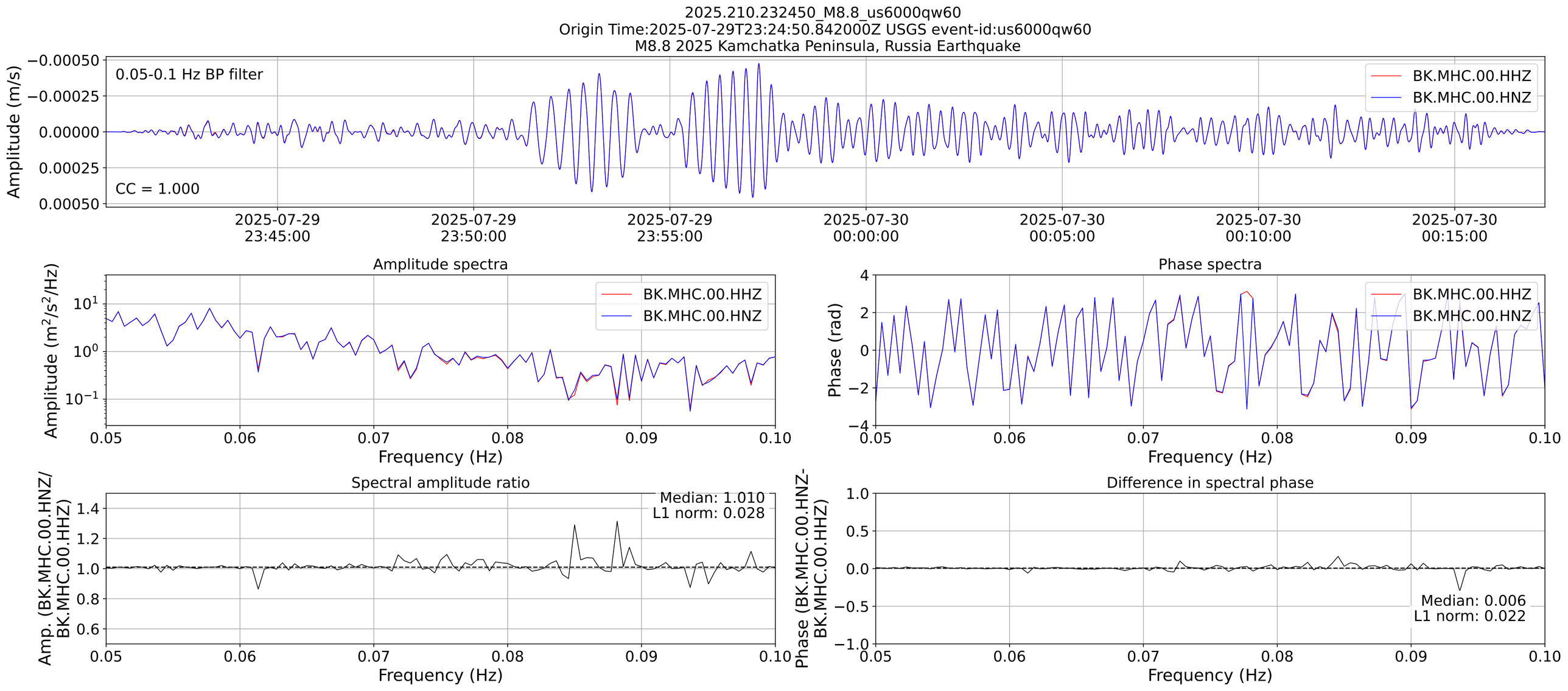

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MERC.00.HHE
BK.MERC.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNE/ BK.MERC.00.HHE)
Median: 0.991
L1 norm: 0.022
Difference in spectral phase
Phase (BK.MERC.00.HNE- BK.MERC.00.HHE)
Median: -0.005
L1 norm: 0.017

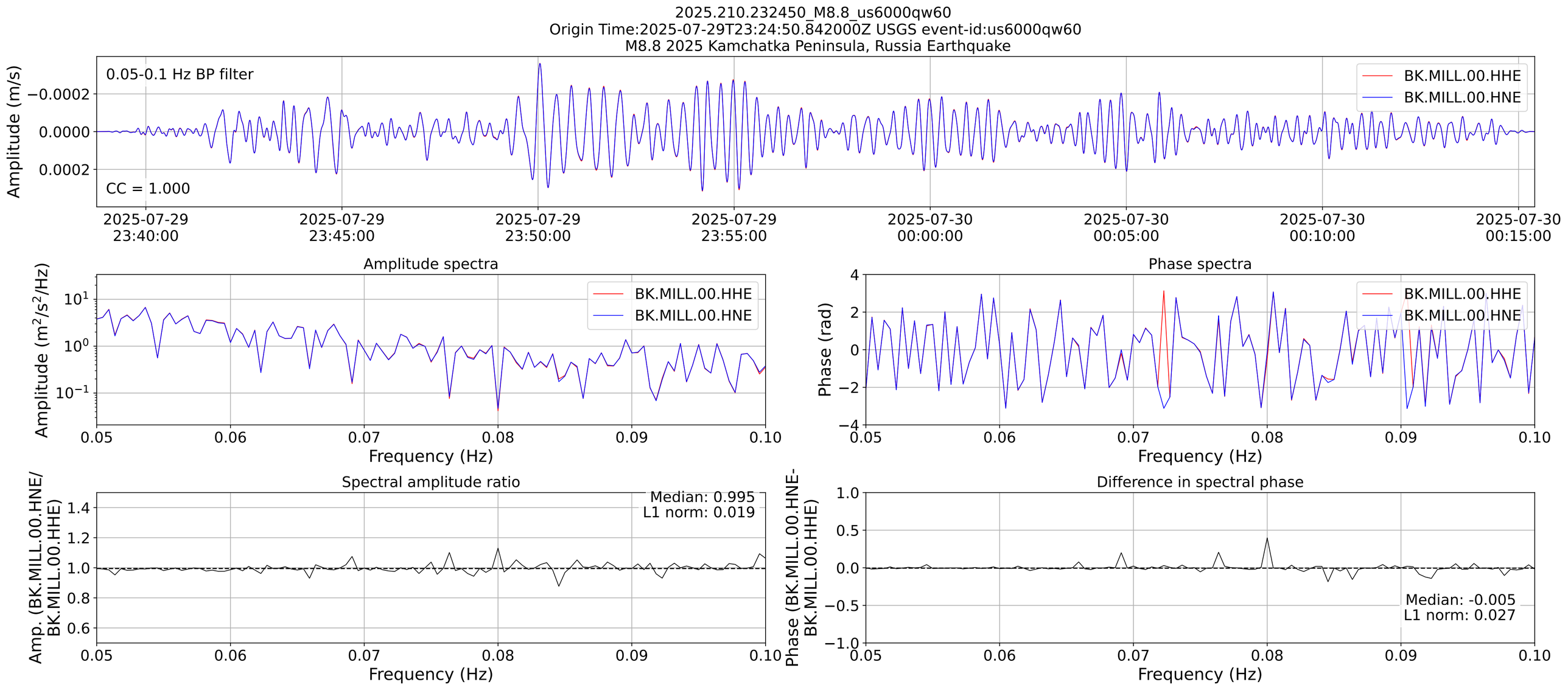

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.MERC.00.HHN
BK.MERC.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNN/ BK.MERC.00.HHN)
Median: 0.987
L1 norm: 0.032
Difference in spectral phase
Phase (BK.MERC.00.HNN- BK.MERC.00.HHN)
Median: 0.000
L1 norm: 0.029

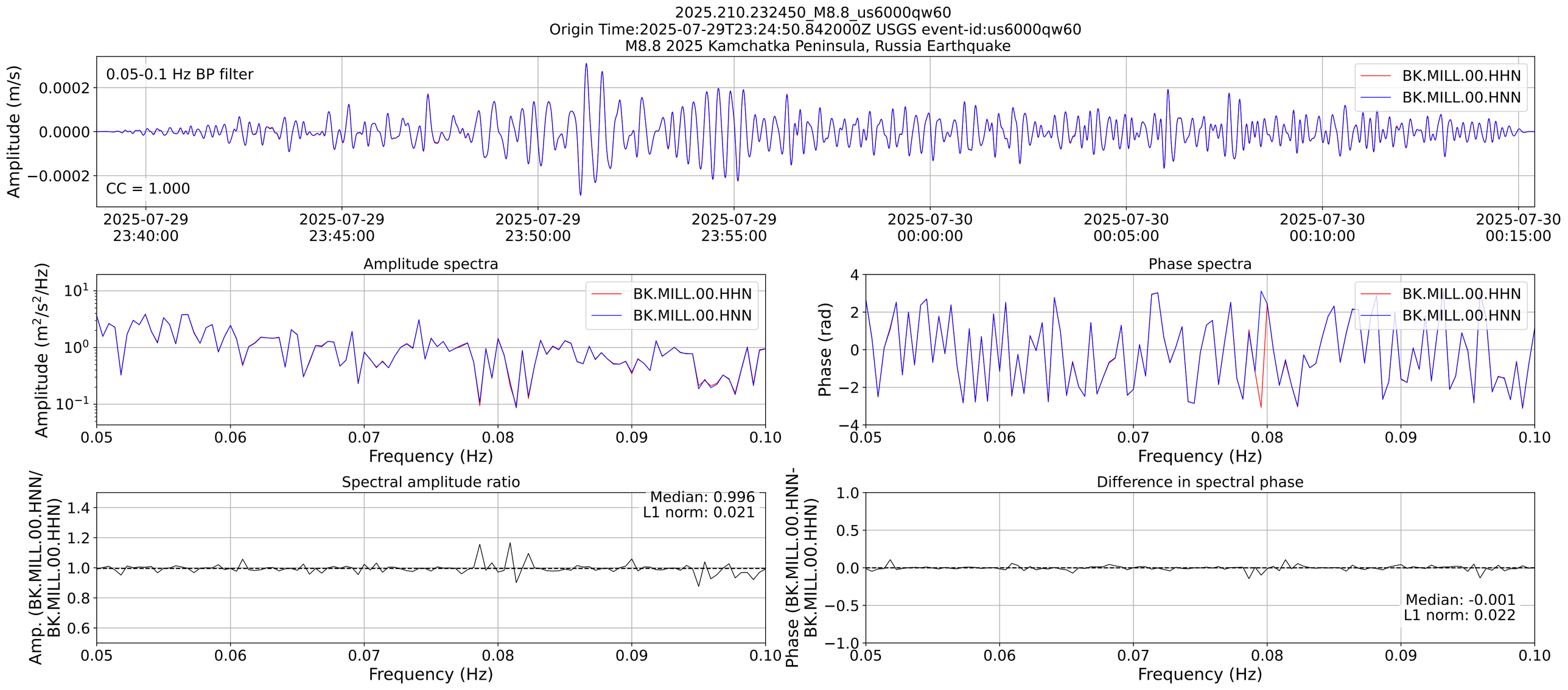

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MERC.00.HHZ
BK.MERC.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNZ/ BK.MERC.00.HHZ)
Median: 0.983
L1 norm: 0.033
Difference in spectral phase
Phase (BK.MERC.00.HNZ- BK.MERC.00.HHZ)
Median: -0.005
L1 norm: 0.029

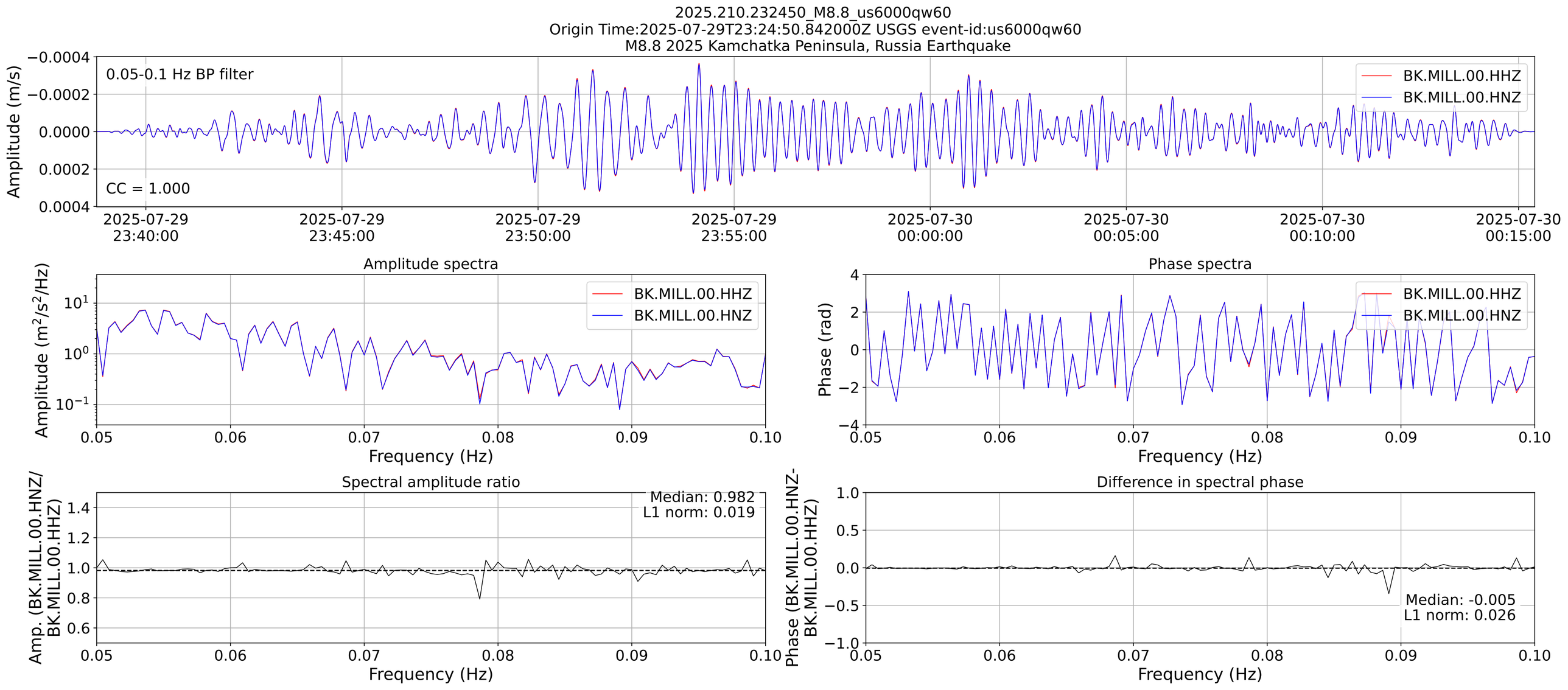

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MHC.00.HHE
BK.MHC.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNE/ BK.MHC.00.HHE)
Median: 1.016
L1 norm: 0.033
Difference in spectral phase
Phase (BK.MHC.00.HNE- BK.MHC.00.HHE)
Median: 0.001
L1 norm: 0.033

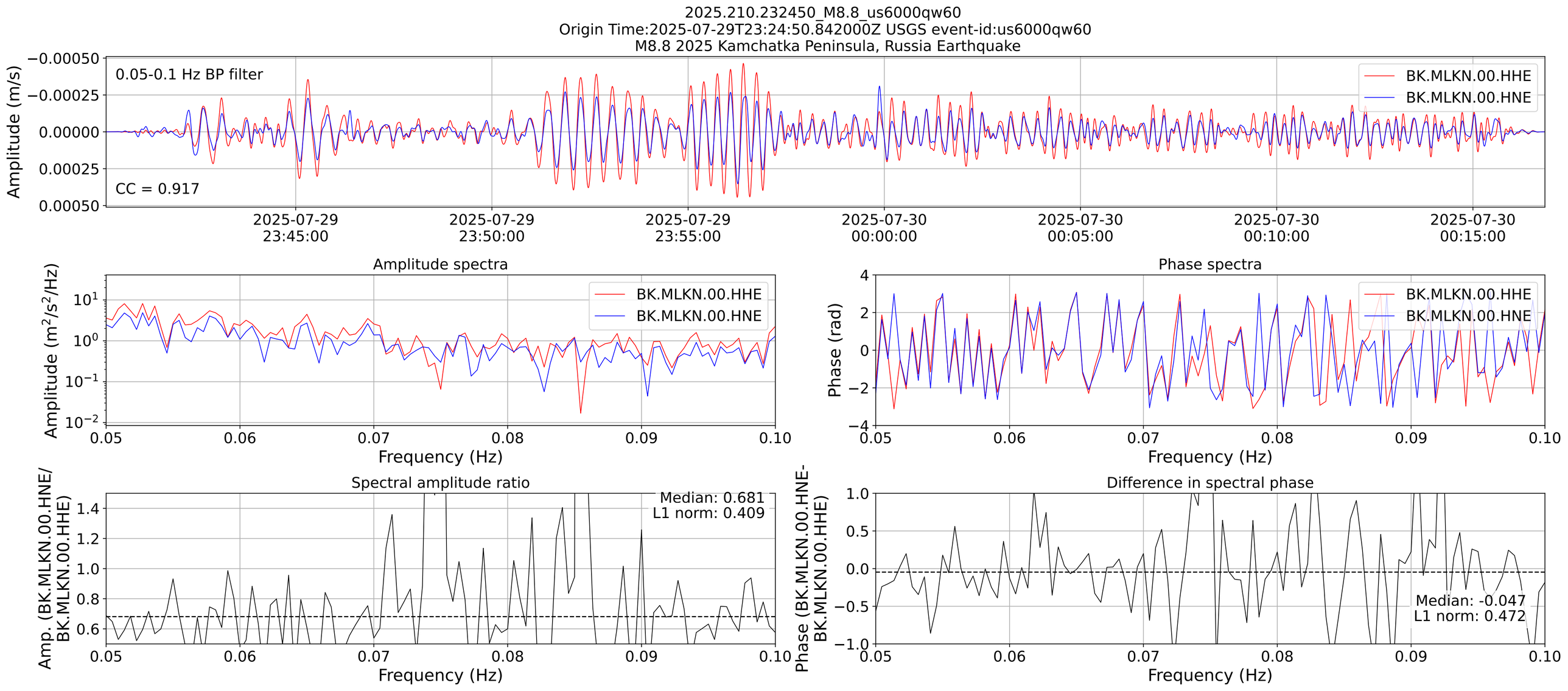

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MHC.00.HHN
BK.MHC.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNN/ BK.MHC.00.HHN)
Median: 1.008
L1 norm: 0.019
Difference in spectral phase
Phase (BK.MHC.00.HNN-BK.MHC.00.HHN)
Median: -0.002
L1 norm: 0.015

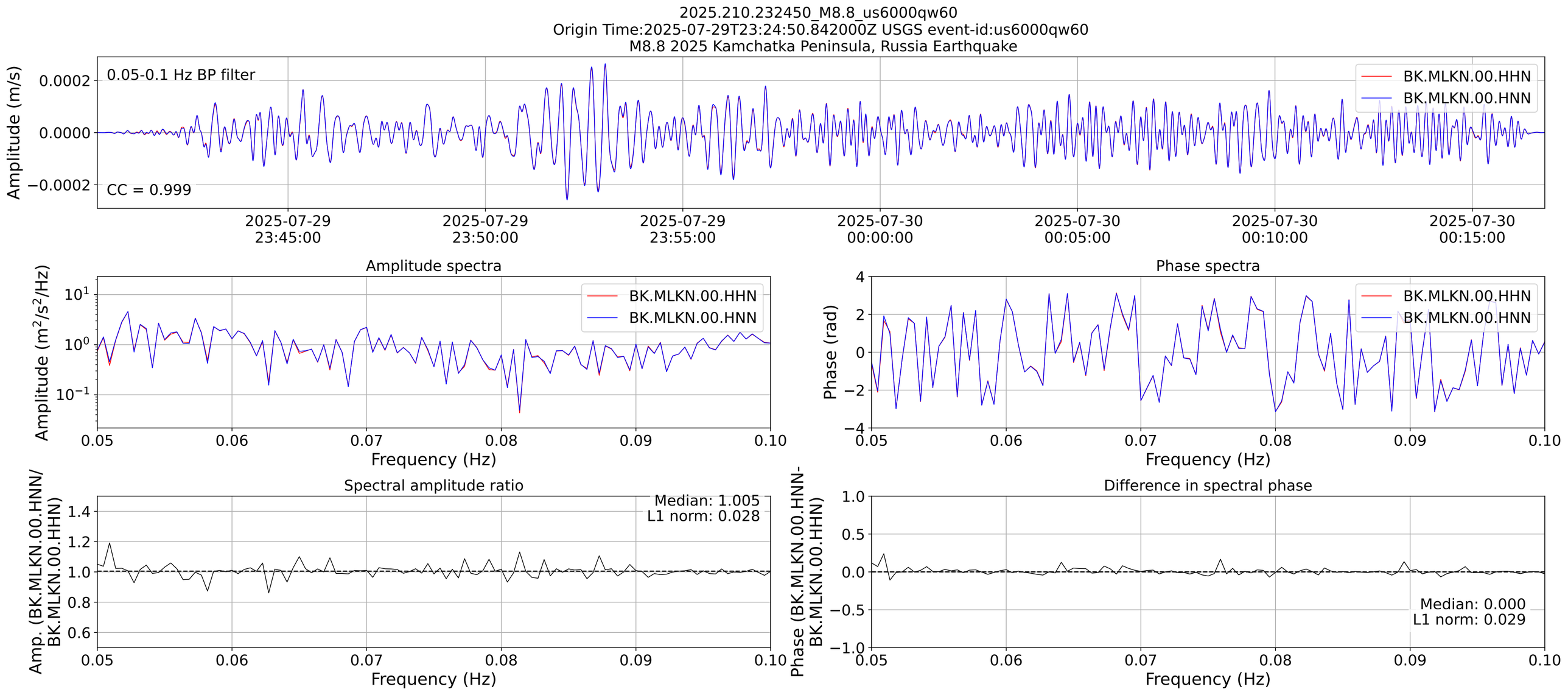

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MHC.00.HHZ
BK.MHC.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNZ/ BK.MHC.00.HHZ)
Median: 1.010
L1 norm: 0.028
Difference in spectral phase
Phase (BK.MHC.00.HNZ- BK.MHC.00.HHZ)
Median: 0.006
L1 norm: 0.022

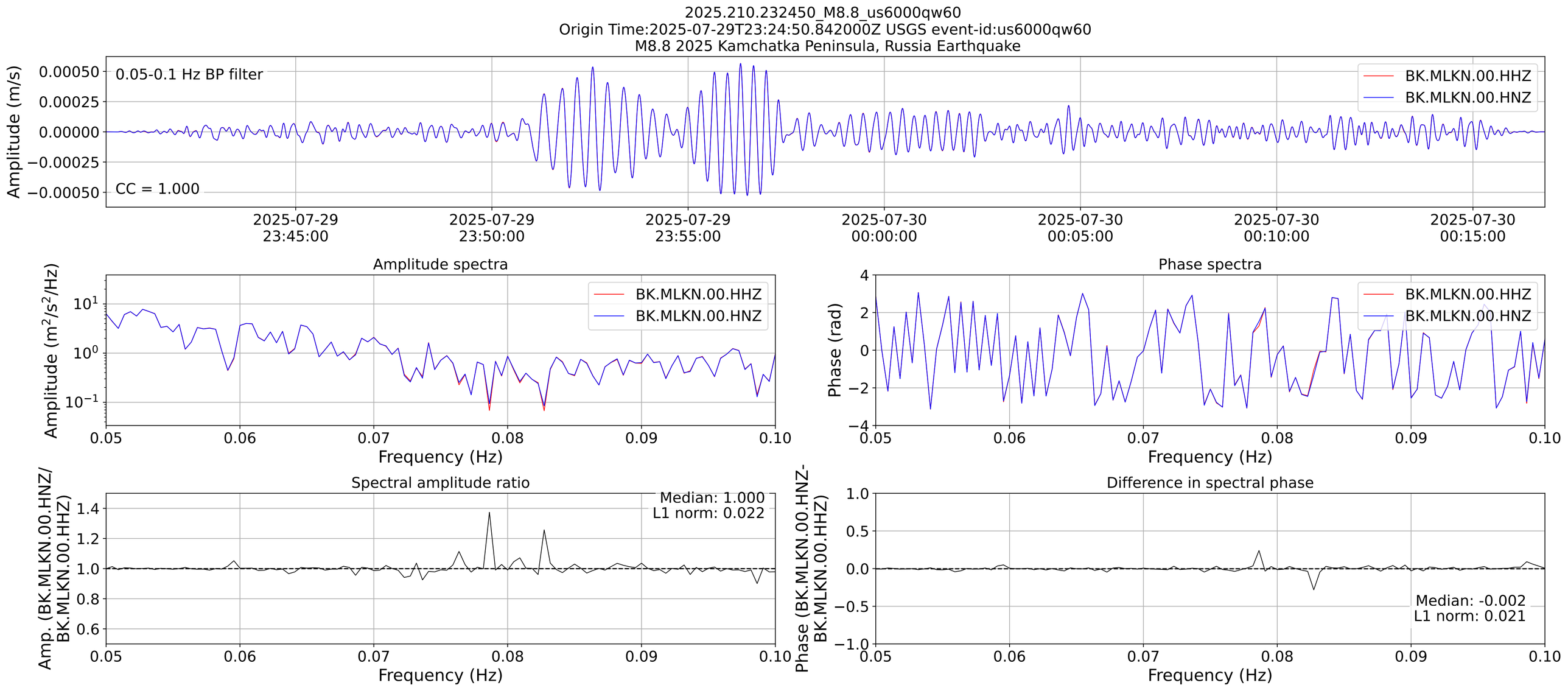

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MILL.00.HHE
BK.MILL.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNE/ BK.MILL.00.HHE)
Median: 0.995
L1 norm: 0.019
Difference in spectral phase
Phase (BK.MILL.00.HNE- BK.MILL.00.HHE)
Median: -0.005
L1 norm: 0.027

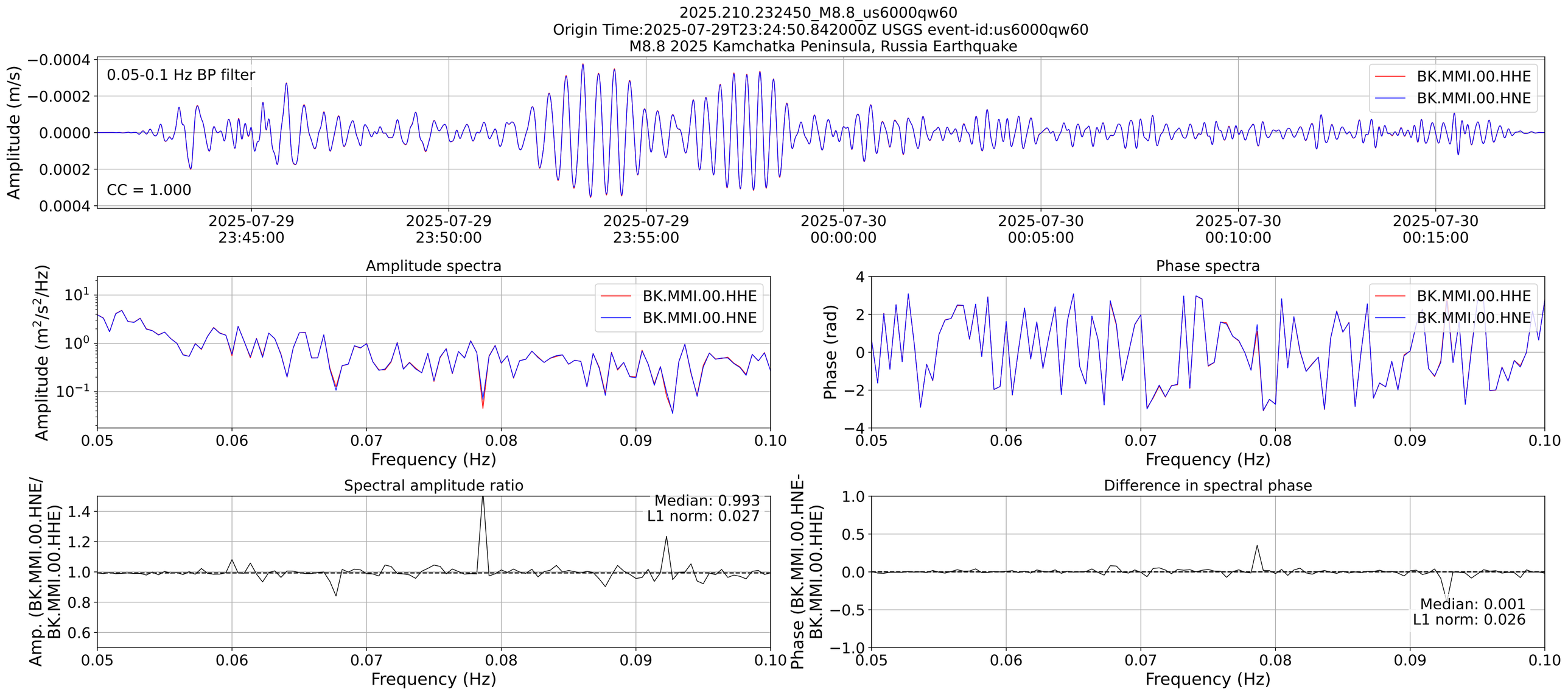

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MILL.00.HHN
BK.MILL.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNN/ BK.MILL.00.HHN)
Median: 0.996
L1 norm: 0.021
Difference in spectral phase
Phase (BK.MILL.00.HNN- BK.MILL.00.HHN)
Median: -0.001
L1 norm: 0.022

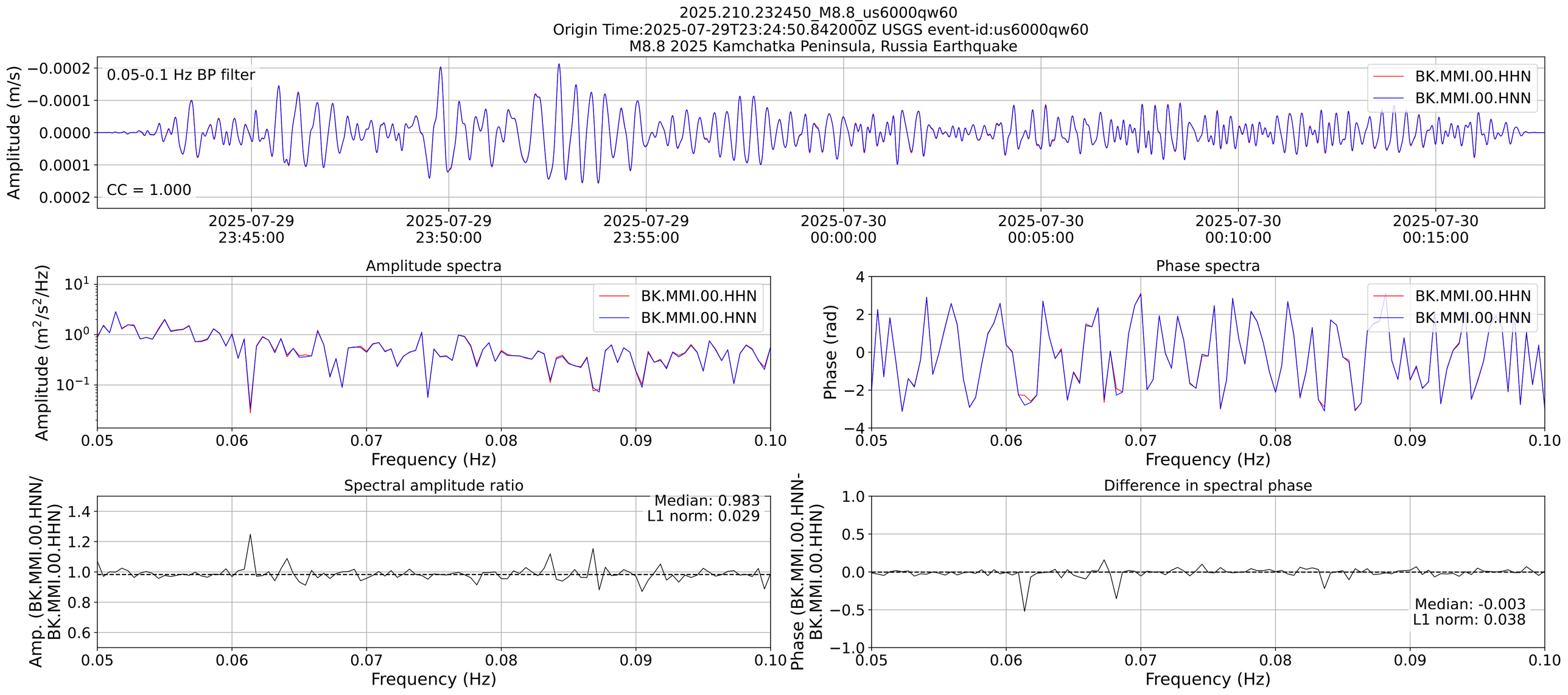

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MILL.00.HHZ
BK.MILL.00.HNZ
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNZ/ BK.MILL.00.HHZ)
Median: 0.982
L1 norm: 0.019
Difference in spectral phase
Phase (BK.MILL.00.HNZ- BK.MILL.00.HHZ)
Median: -0.005
L1 norm: 0.026

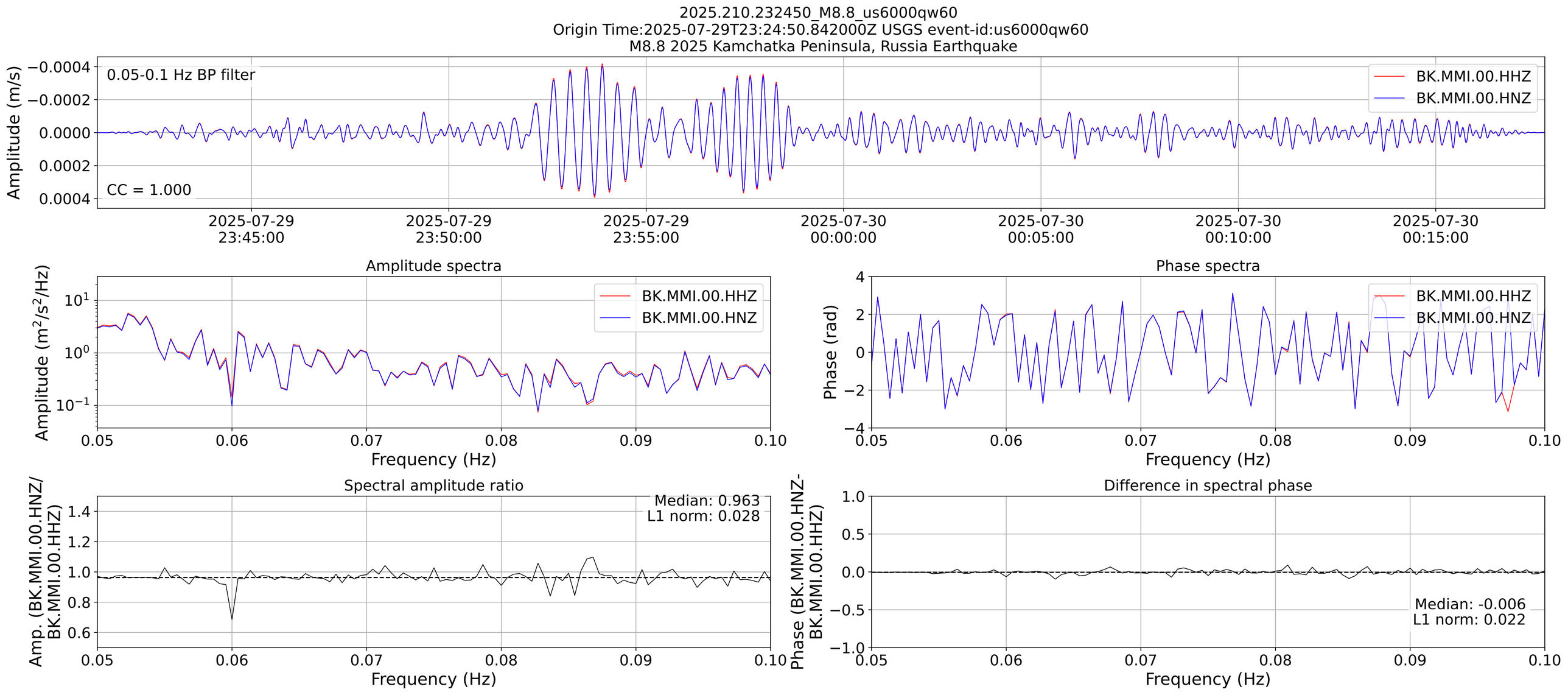

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.917
BK.MLKN.00.HHE
BK.MLKN.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNE/ BK.MLKN.00.HHE)
Median: 0.681
L1 norm: 0.409
Difference in spectral phase
Phase (BK.MLKN.00.HNE- BK.MLKN.00.HHE)
Median: -0.047
L1 norm: 0.472

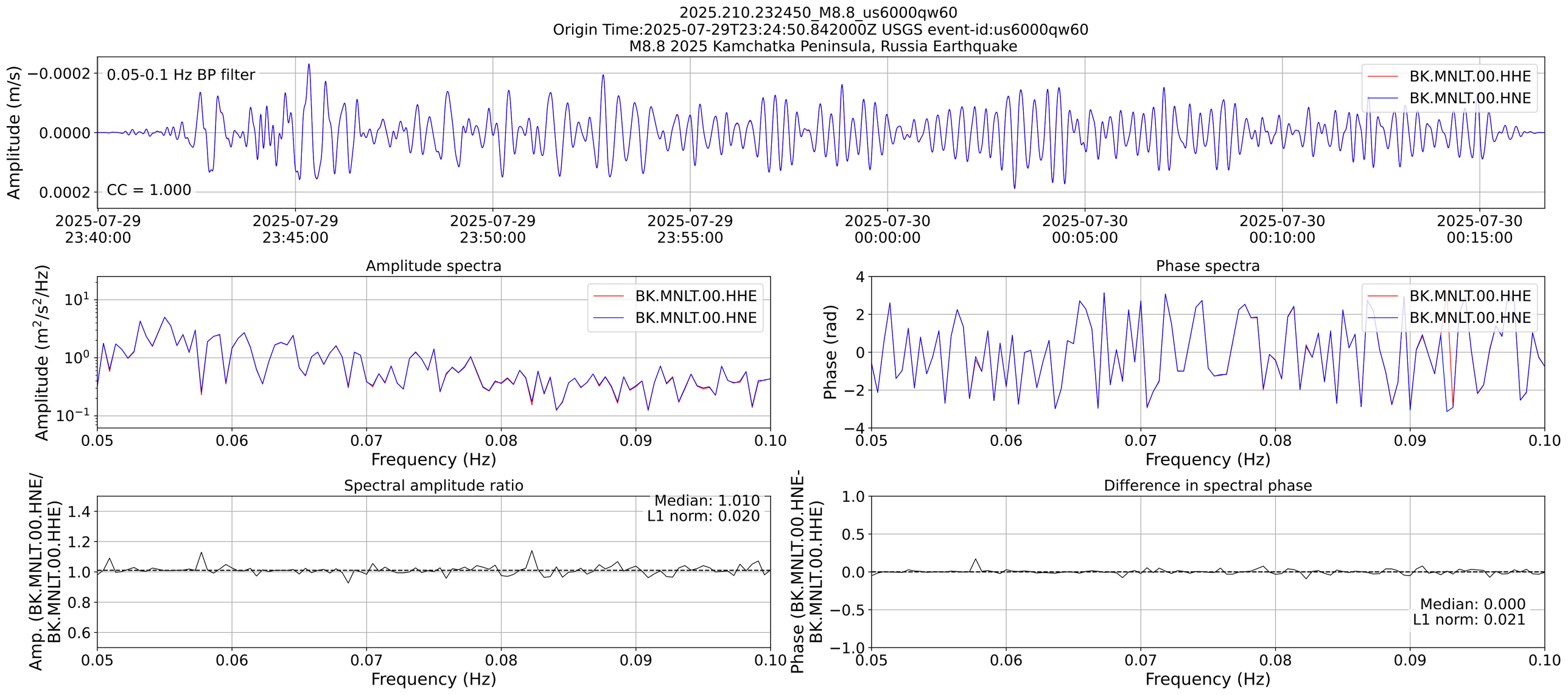

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.MLKN.00.HHN
BK.MLKN.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNN/ BK.MLKN.00.HHN)
Median: 1.005
L1 norm: 0.028
Difference in spectral phase
Phase (BK.MLKN.00.HNN- BK.MLKN.00.HHN)
Median: 0.000
L1 norm: 0.029

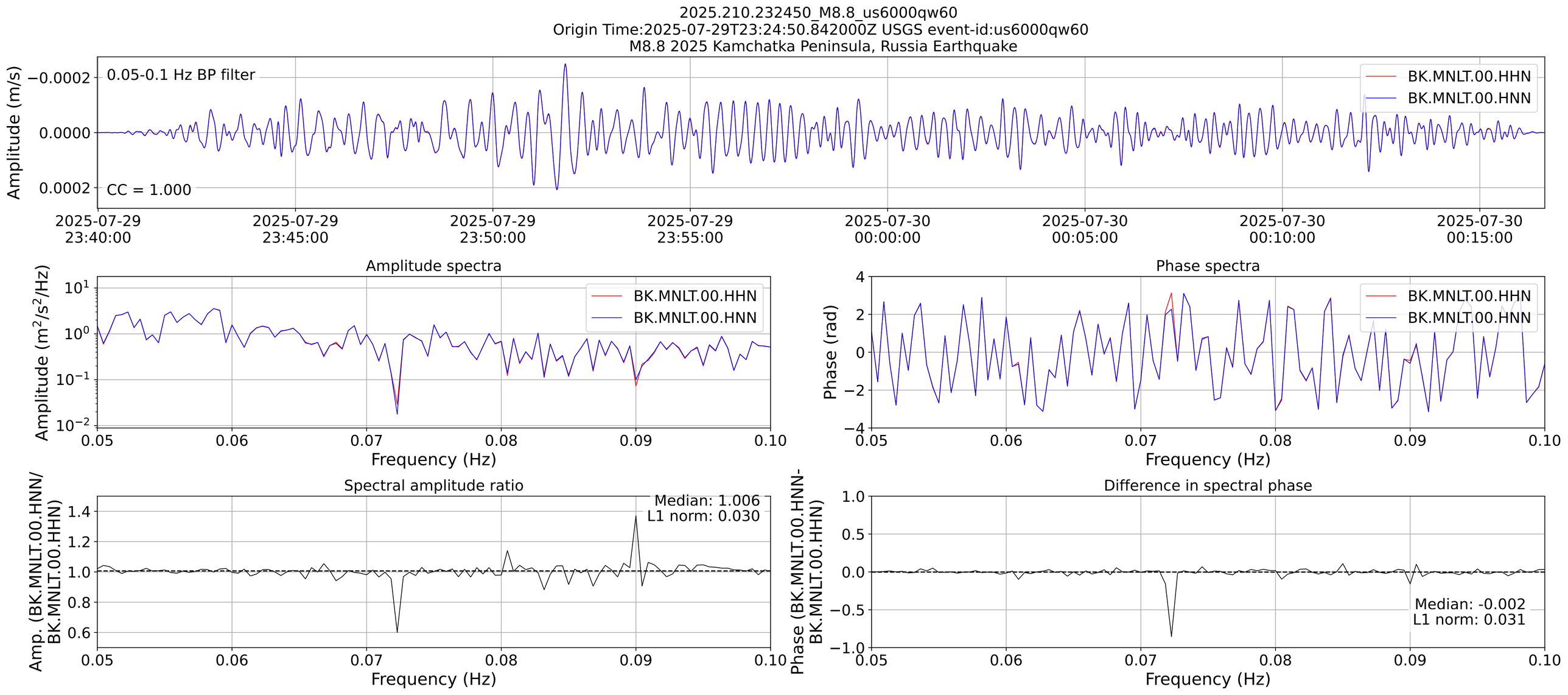

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MLKN.00.HHZ
BK.MLKN.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNZ/ BK.MLKN.00.HHZ)
Median: 1.000
L1 norm: 0.022
Difference in spectral phase
Phase (BK.MLKN.00.HNZ-BK.MLKN.00.HHZ)
Median: -0.002
L1 norm: 0.021

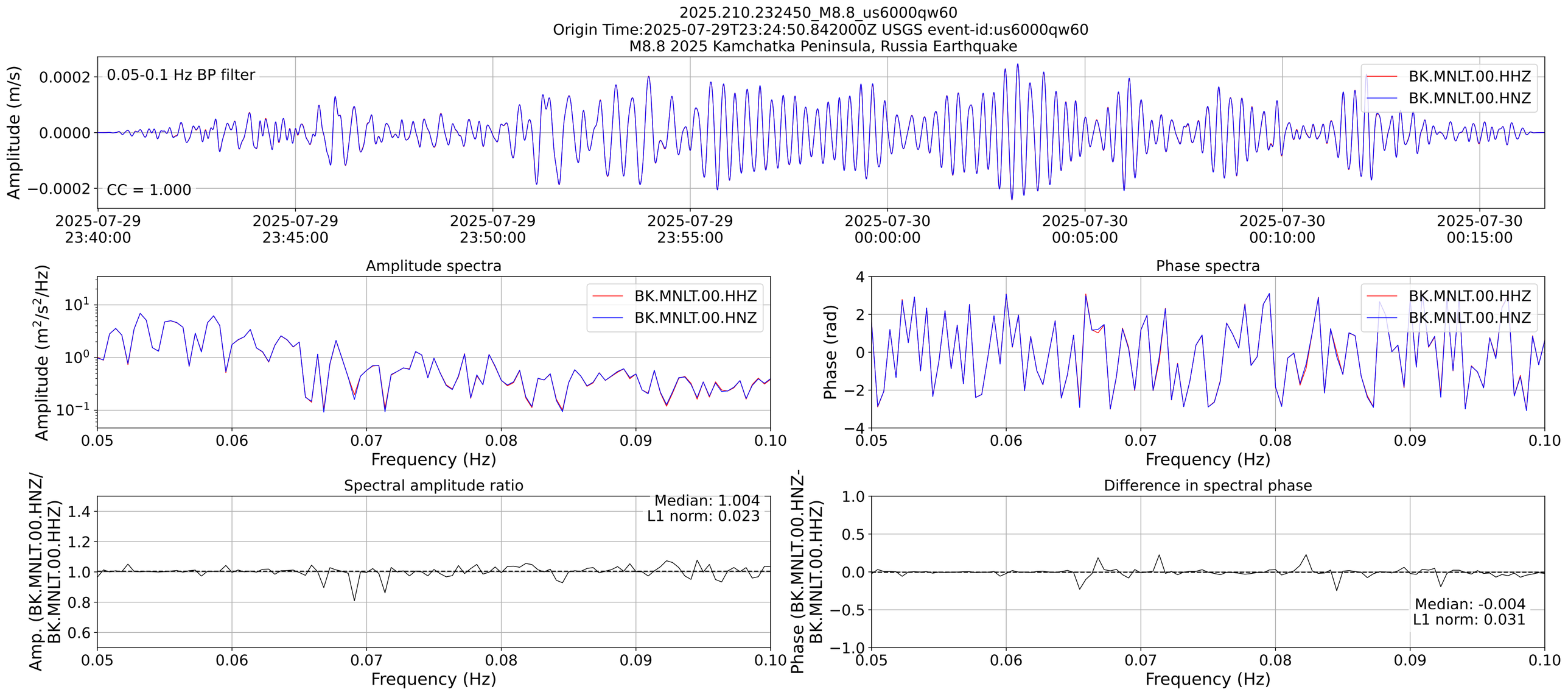

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MMI.00.HHE
BK.MMI.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNE/ BK.MMI.00.HHE)
Median: 0.993
L1 norm: 0.027
Difference in spectral phase
Phase (BK.MMI.00.HNE- BK.MMI.00.HHE)
Median: 0.001
L1 norm: 0.026

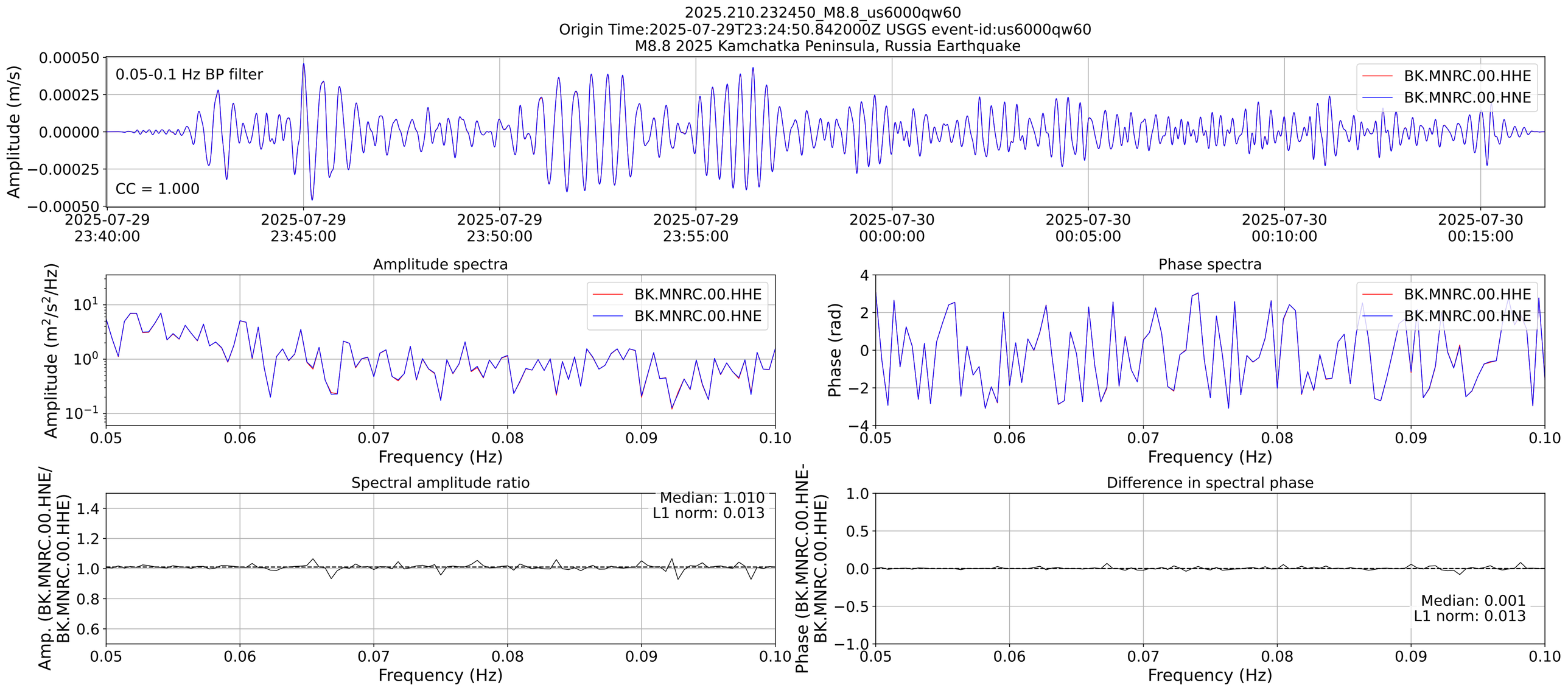

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MMI.00.HHN
BK.MMI.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNN/ BK.MMI.00.HHN)
Median: 0.983
L1 norm: 0.029
Difference in spectral phase
Phase (BK.MMI.00.HNN- BK.MMI.00.HHN)
Median: -0.003
L1 norm: 0.038

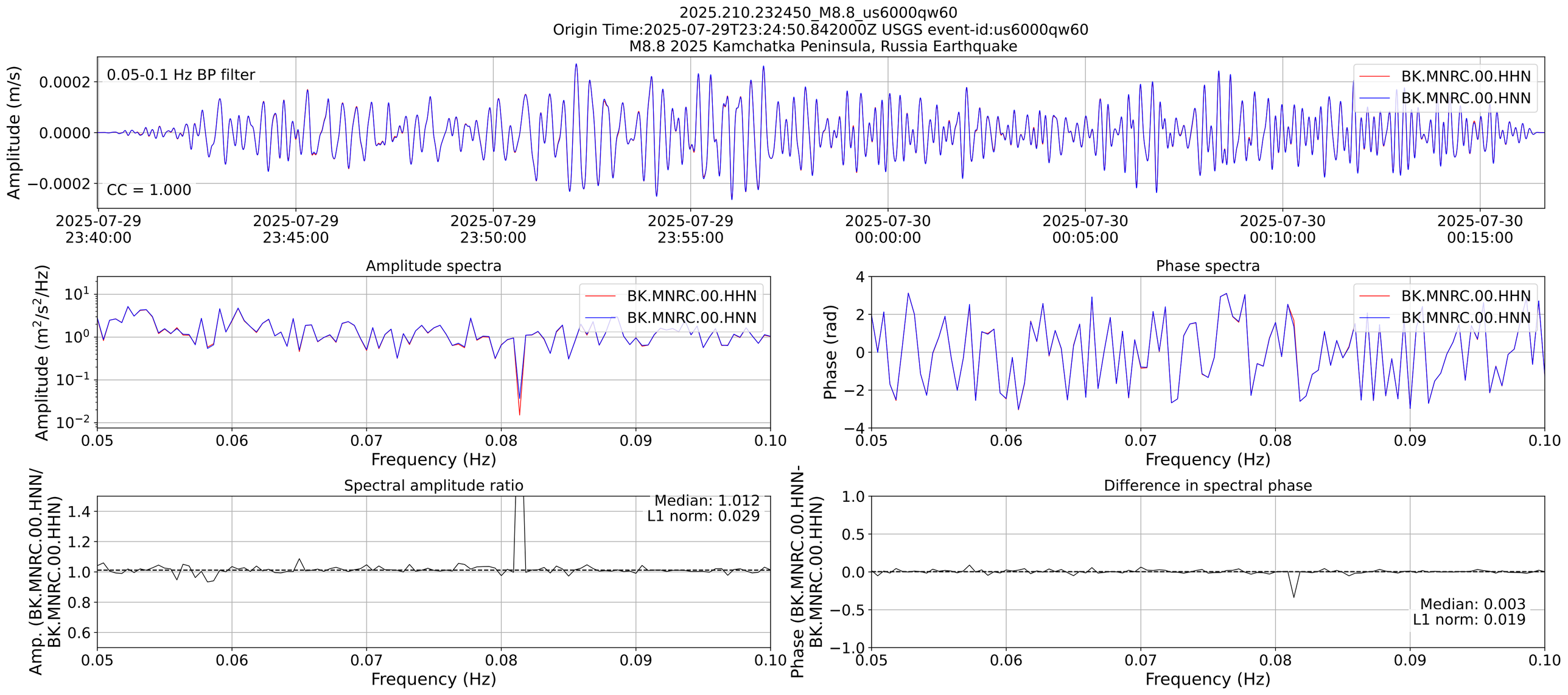

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MMI.00.HHZ
BK.MMI.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNZ/ BK.MMI.00.HHZ)
Median: 0.963
L1 norm: 0.028
Difference in spectral phase
Phase (BK.MMI.00.HNZ-BK.MMI.00.HHZ)
Median: -0.006
L1 norm: 0.022

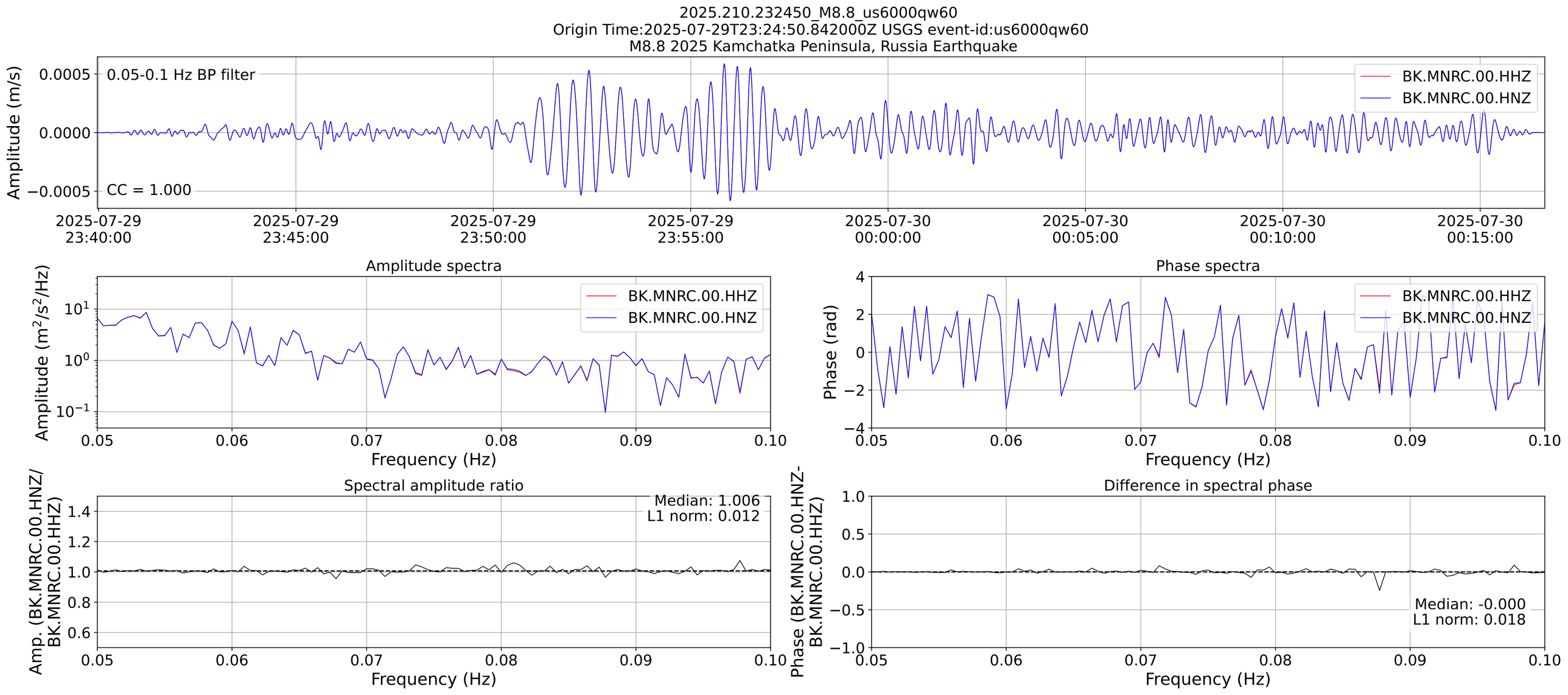

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNLT.00.HHE
BK.MNLT.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNLT.00.HNE/ BK.MNLT.00.HHE)
Median: 1.010
L1 norm: 0.020
Difference in spectral phase
Phase (BK.MNLT.00.HNE- BK.MNLT.00.HHE)
Median: 0.000
L1 norm: 0.021

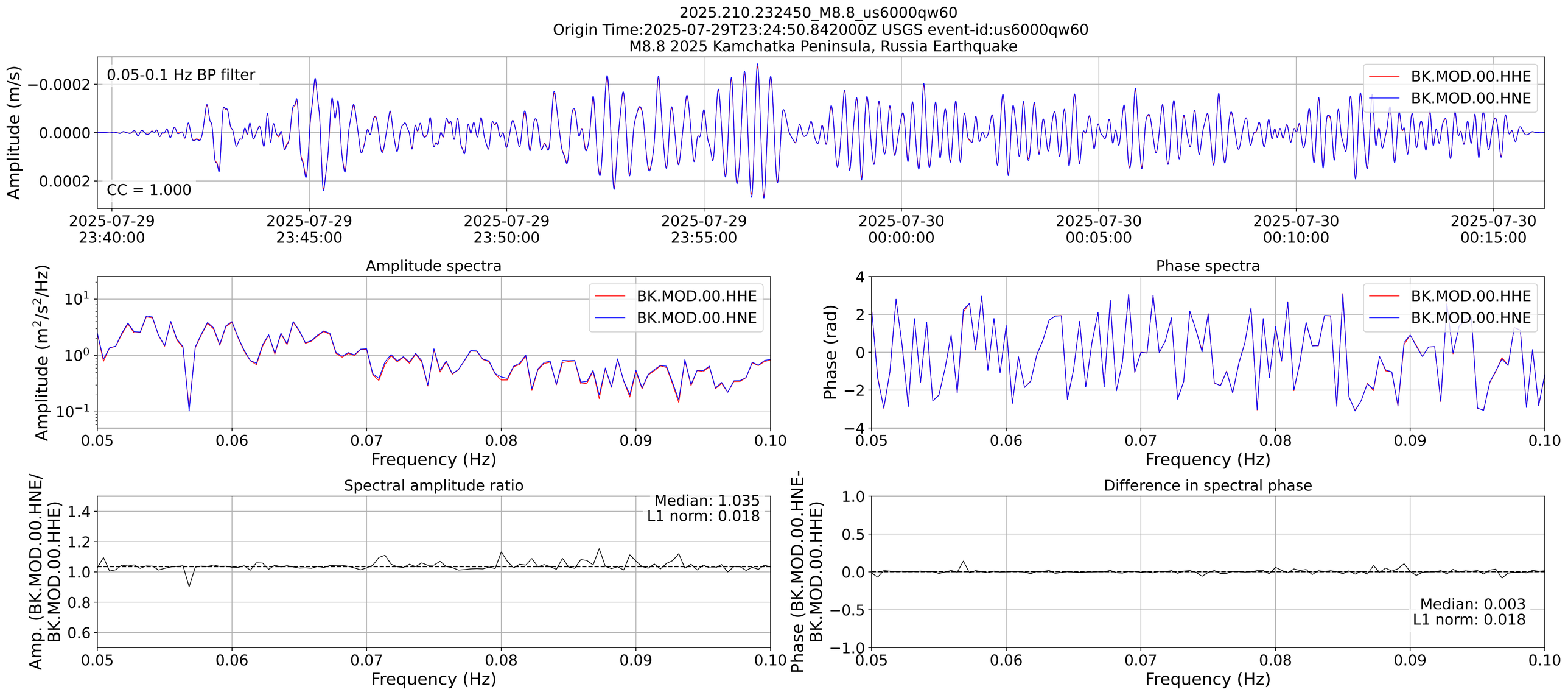

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNLT.00.HHN
BK.MNLT.00.HNN
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNLT.00.HNN/ BK.MNLT.00.HHN)
Median: 1.006
L1 norm: 0.030
Difference in spectral phase
Phase (BK.MNLT.00.HNN- BK.MNLT.00.HHN)
Median: -0.002
L1 norm: 0.031

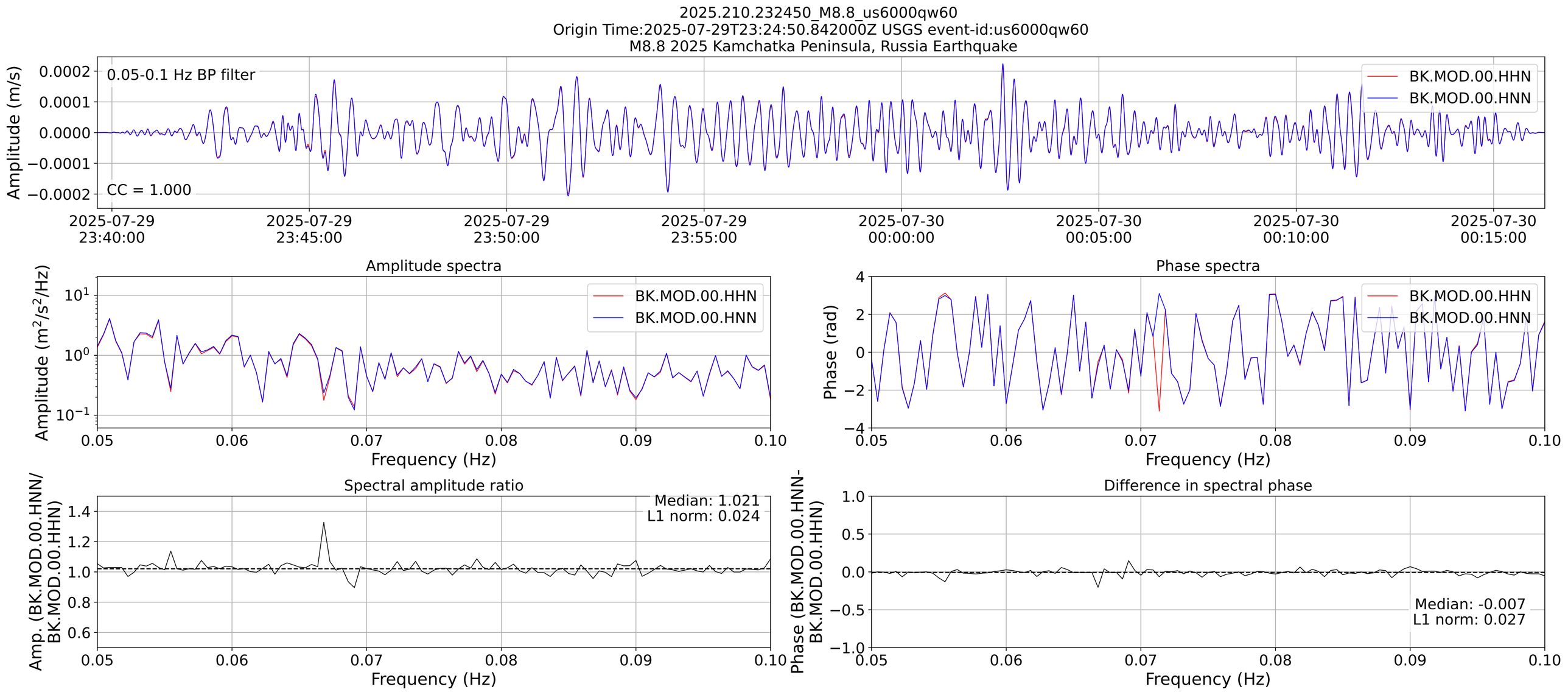

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNLT.00.HHZ
BK.MNLT.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNLT.00.HNZ/ BK.MNLT.00.HHZ)
Median: 1.004
L1 norm: 0.023
Difference in spectral phase
Phase (BK.MNLT.00.HNZ- BK.MNLT.00.HHZ)
Median: -0.004
L1 norm: 0.031

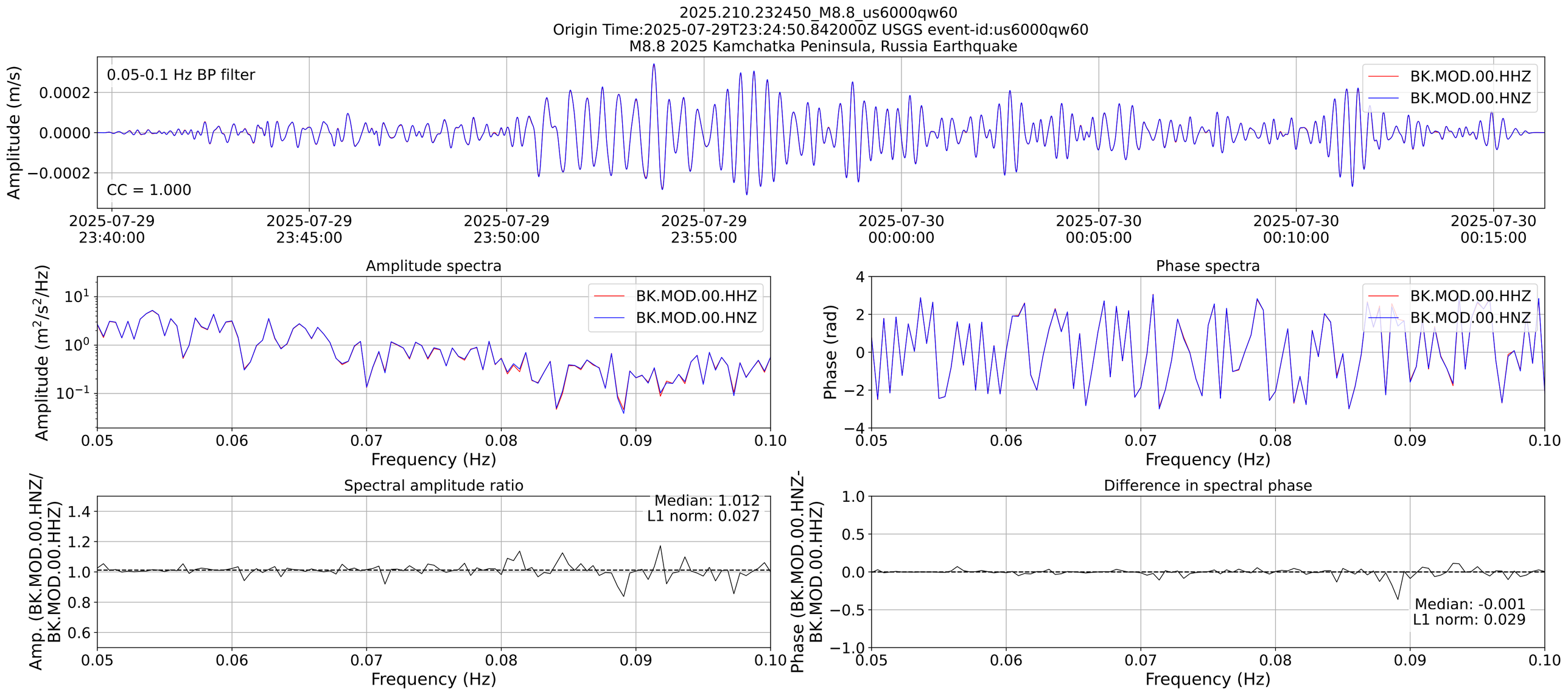

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNRC.00.HHE
BK.MNRC.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNE/ BK.MNRC.00.HHE)
Median: 1.010
L1 norm: 0.013
Difference in spectral phase
Phase (BK.MNRC.00.HNE- BK.MNRC.00.HHE)
Median: 0.001
L1 norm: 0.013

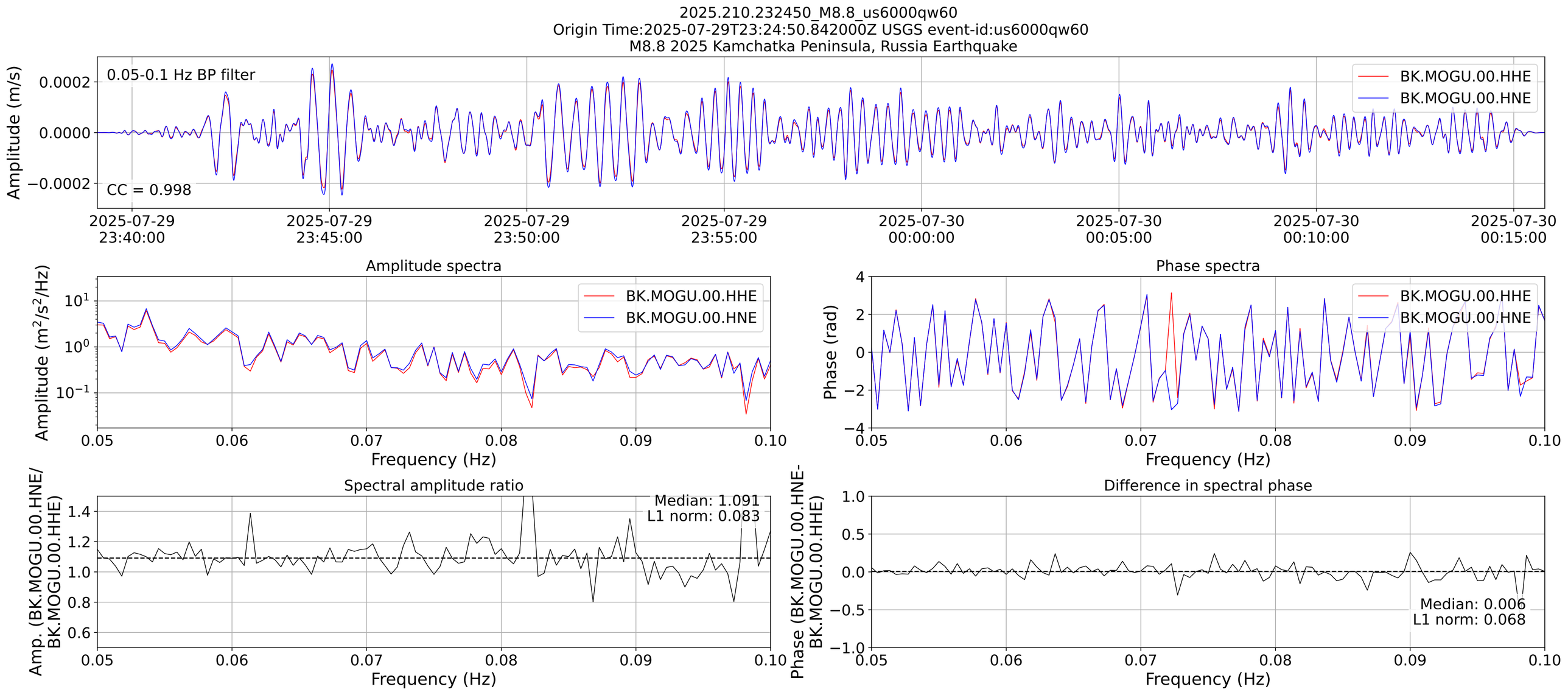

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNRC.00.HHN
BK.MNRC.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNN/ BK.MNRC.00.HHN)
Median: 1.012
L1 norm: 0.029
Difference in spectral phase
Phase (BK.MNRC.00.HNN- BK.MNRC.00.HHN)
Median: 0.003
L1 norm: 0.019

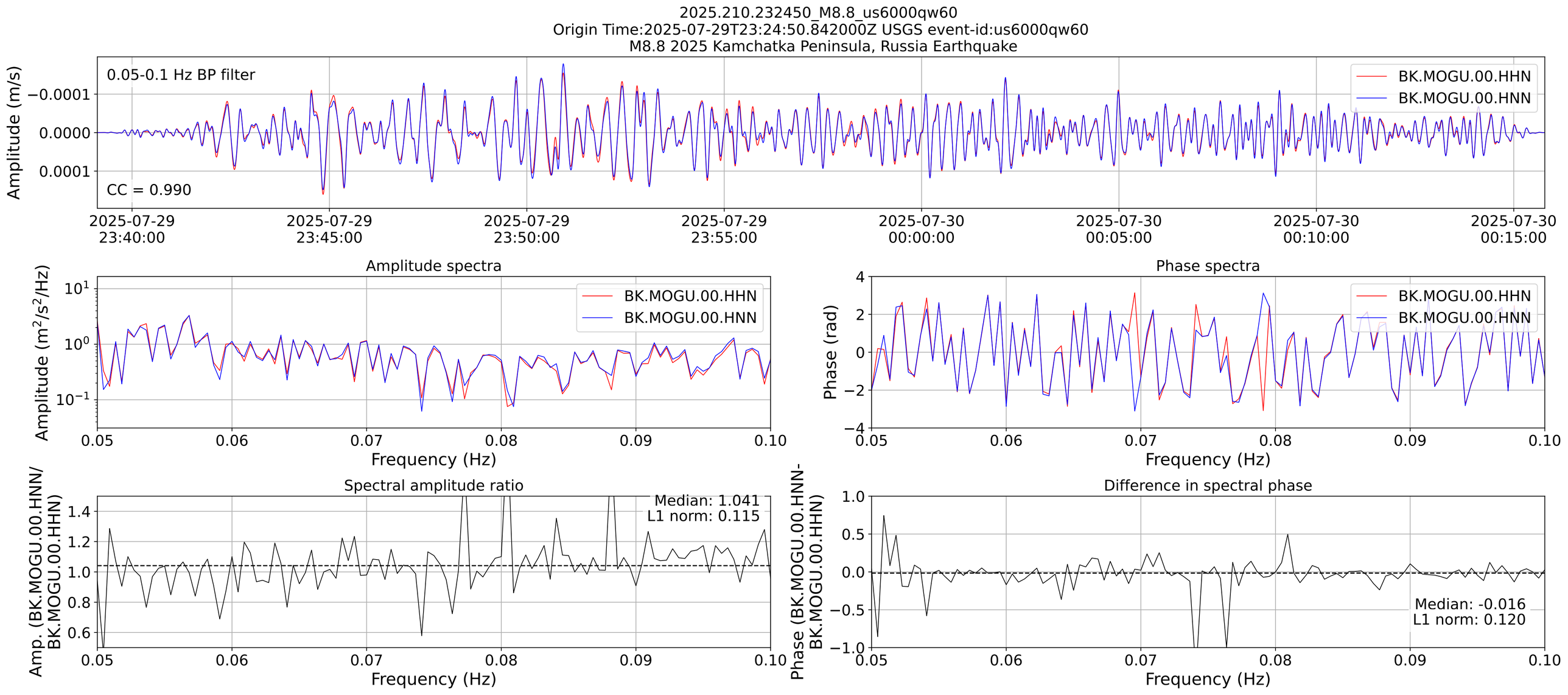

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MNRC.00.HHZ
BK.MNRC.00.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNZ/ BK.MNRC.00.HHZ)
Median: 1.006
L1 norm: 0.012
Difference in spectral phase
Phase (BK.MNRC.00.HNZ- BK.MNRC.00.HHZ)
Median: -0.000
L1 norm: 0.018

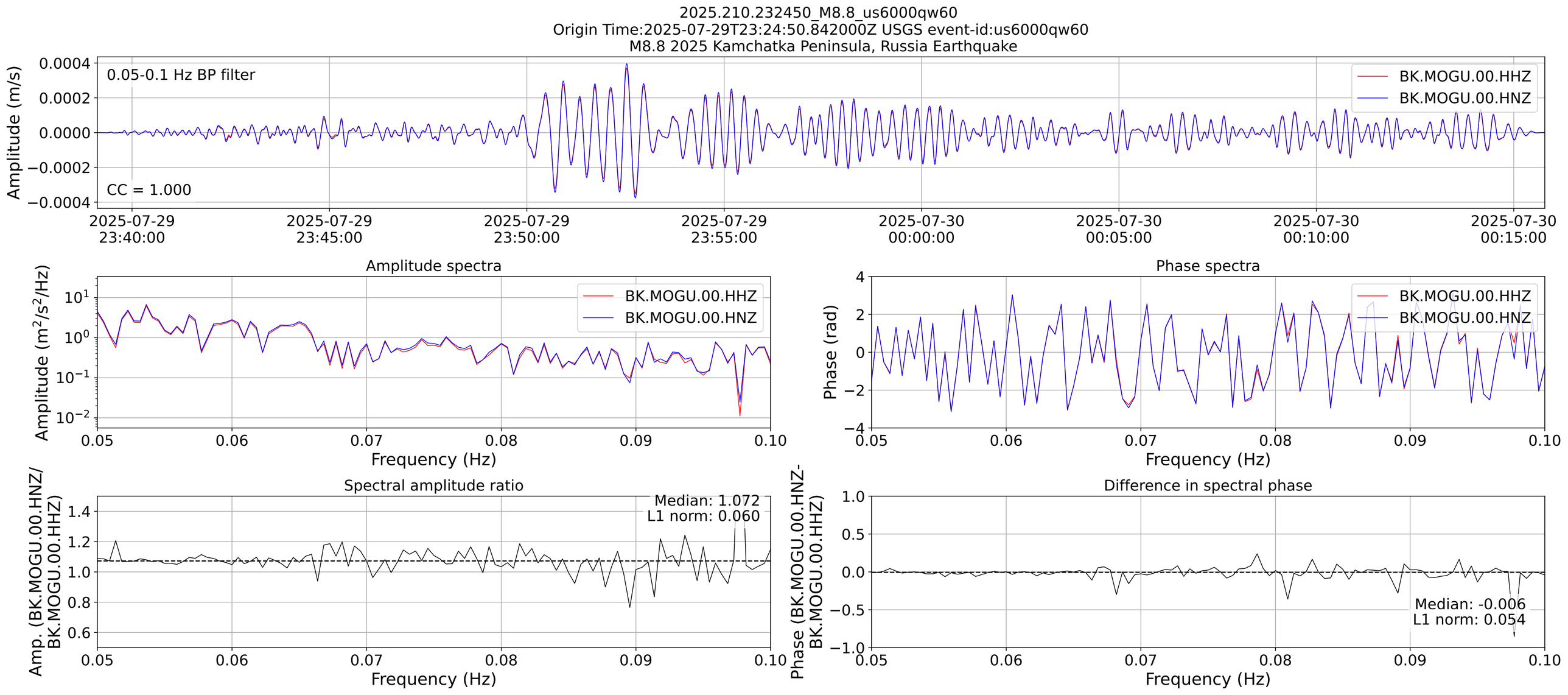

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MOD.00.HHE
BK.MOD.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOD.00.HNE/ BK.MOD.00.HHE)
Median: 1.035
L1 norm: 0.018
Difference in spectral phase
Phase (BK.MOD.00.HNE- BK.MOD.00.HHE)
Median: 0.003
L1 norm: 0.018

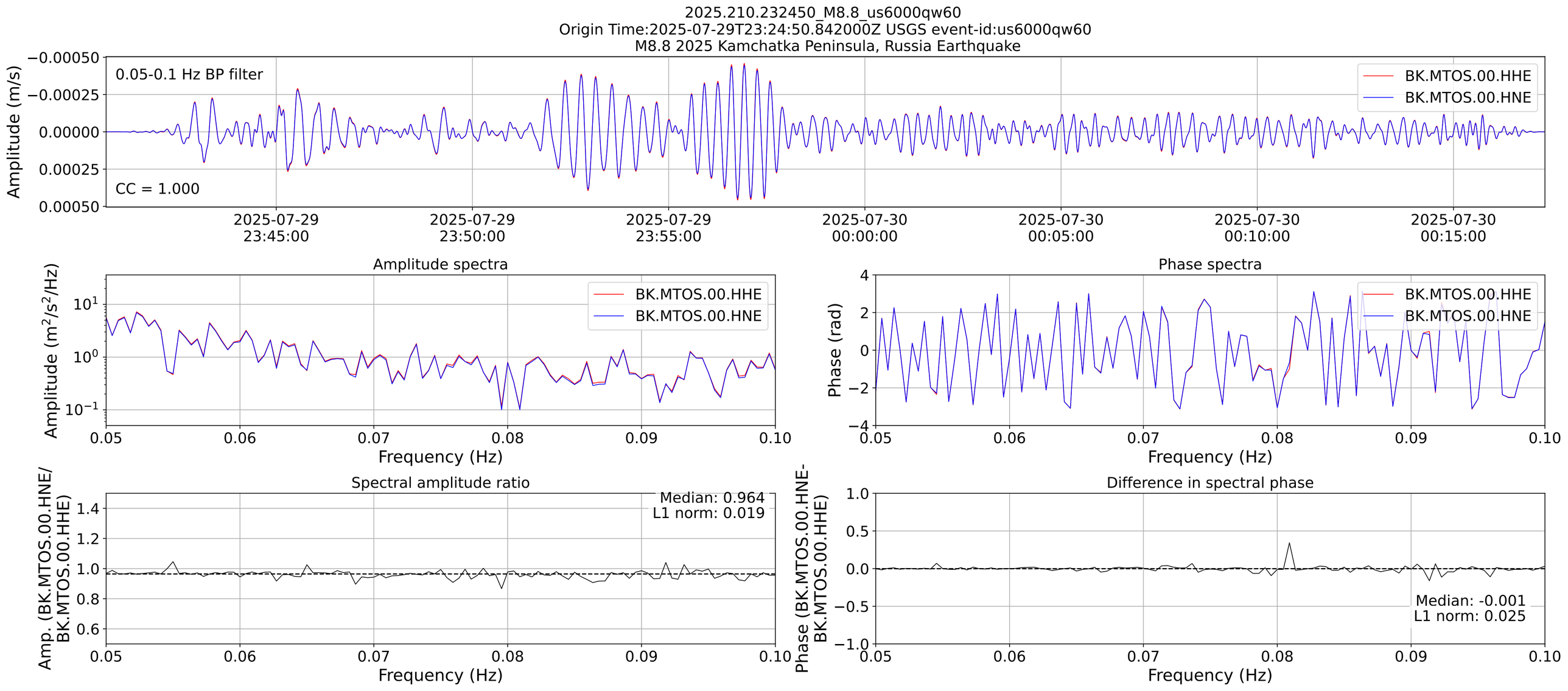

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MOD.00.HHN
BK.MOD.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOD.00.HNN/ BK.MOD.00.HHN)
Median: 1.021
L1 norm: 0.024
Difference in spectral phase
Phase (BK.MOD.00.HNN- BK.MOD.00.HHN)
Median: -0.007
L1 norm: 0.027

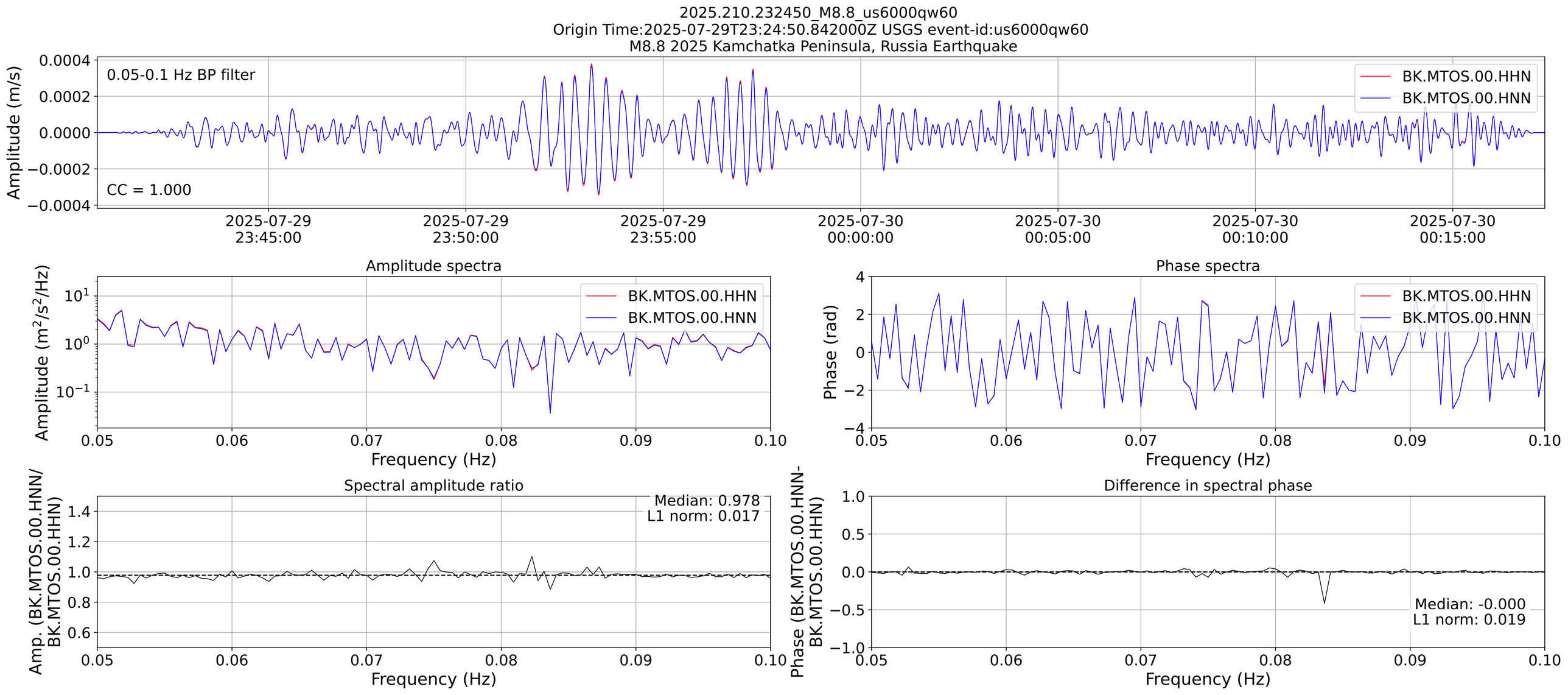

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MOD.00.HHZ
BK.MOD.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOD.00.HNZ/ BK.MOD.00.HHZ)
Median: 1.012
L1 norm: 0.027
Difference in spectral phase
Phase (BK.MOD.00.HNZ- BK.MOD.00.HHZ)
Median: -0.001
L1 norm: 0.029

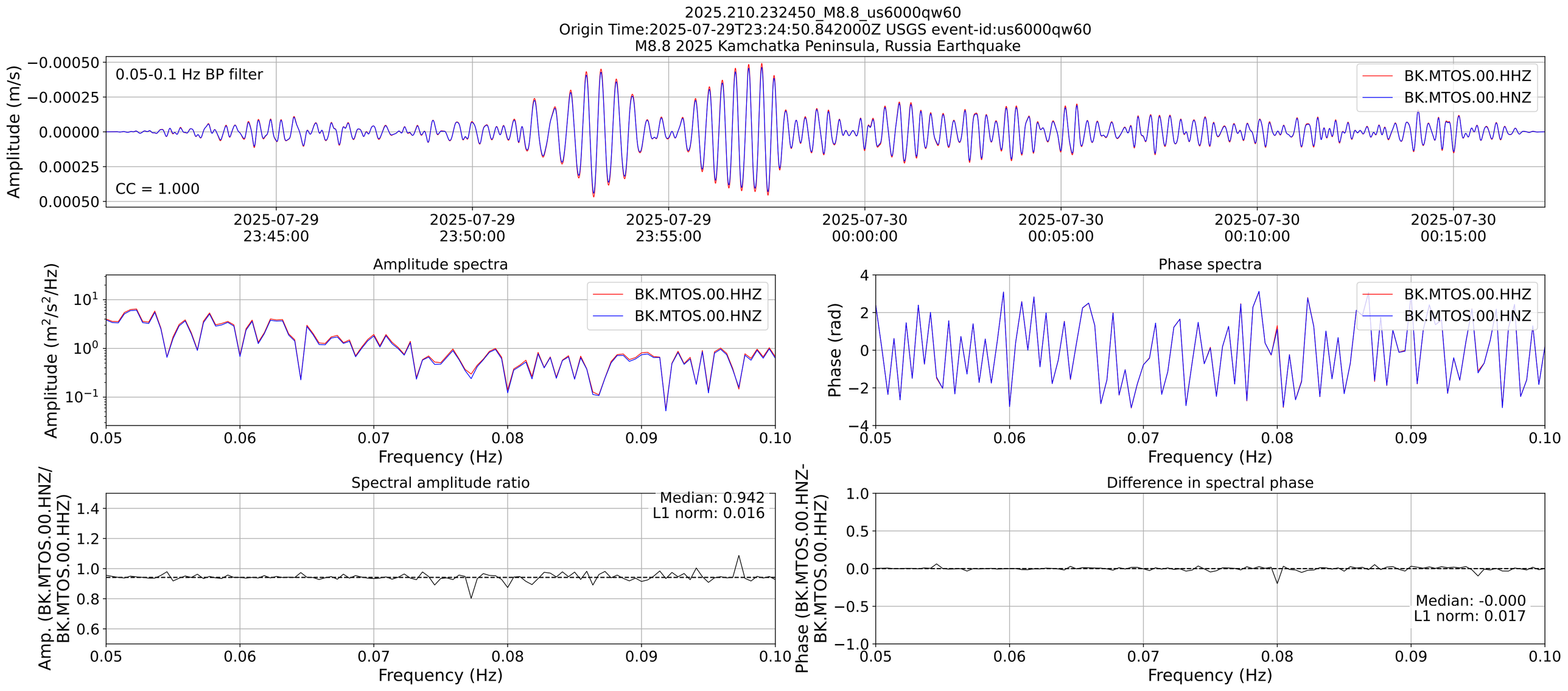

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.MOGU.00.HHE
BK.MOGU.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOGU.00.HNE/ BK.MOGU.00.HHE)
Median: 1.091
L1 norm: 0.083
Difference in spectral phase
Phase (BK.MOGU.00.HNE- BK.MOGU.00.HHE)
Median: 0.006
L1 norm: 0.068

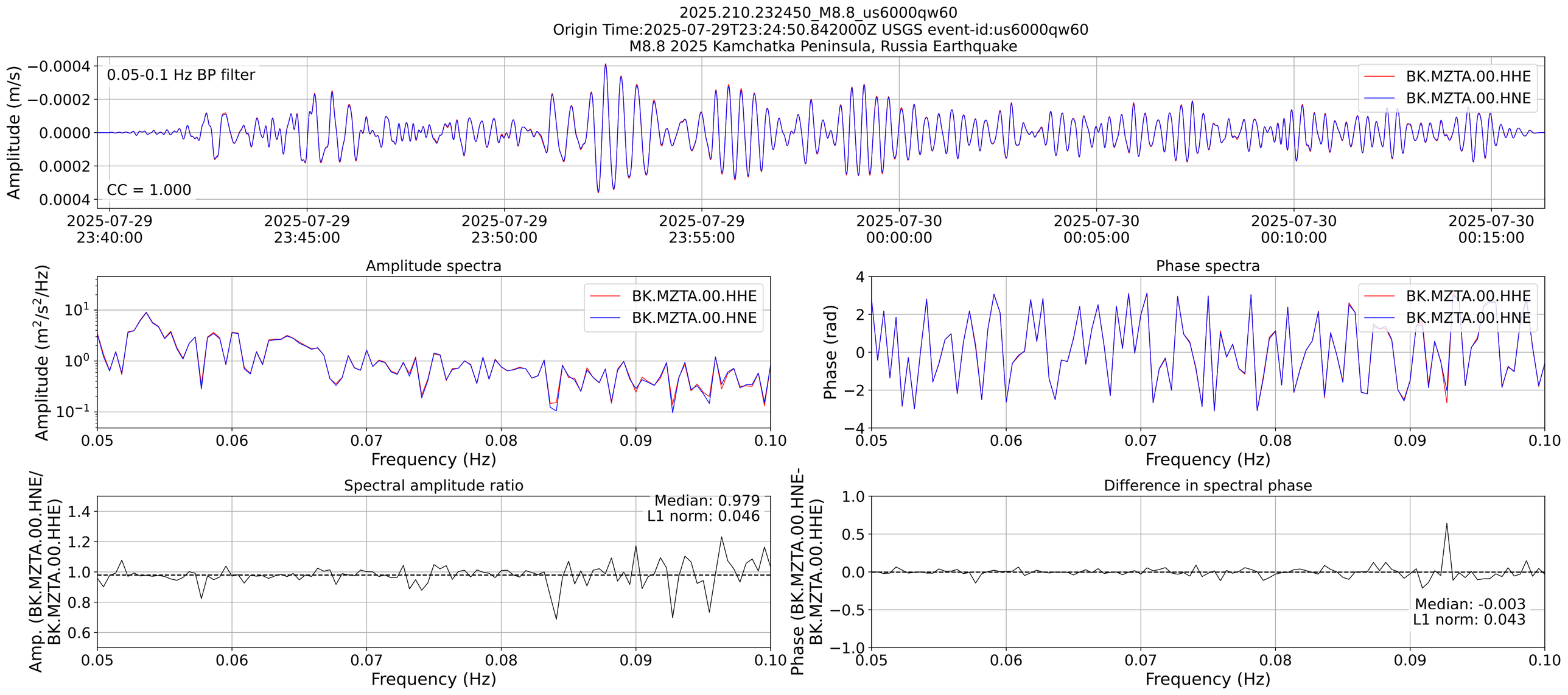

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.990
BK.MOGU.00.HHN
BK.MOGU.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOGU.00.HNN/ BK.MOGU.00.HHN)
Median: 1.041
L1 norm: 0.115
Difference in spectral phase
Phase (BK.MOGU.00.HNN- BK.MOGU.00.HHN)
Median: -0.016
L1 norm: 0.120

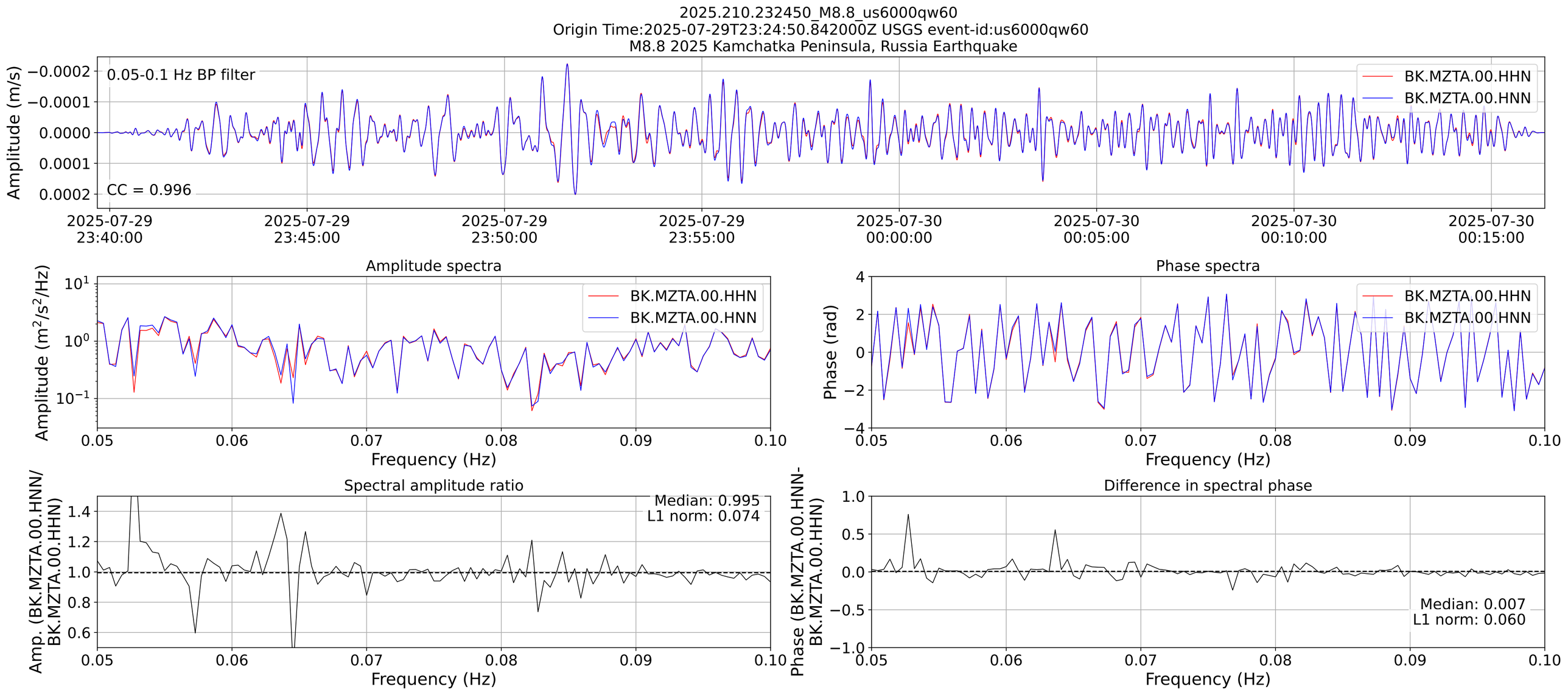

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MOGU.00.HHZ
BK.MOGU.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOGU.00.HNZ/ BK.MOGU.00.HHZ)
Median: 1.072
L1 norm: 0.060
Difference in spectral phase
Phase (BK.MOGU.00.HNZ- BK.MOGU.00.HHZ)
Median: -0.006
L1 norm: 0.054

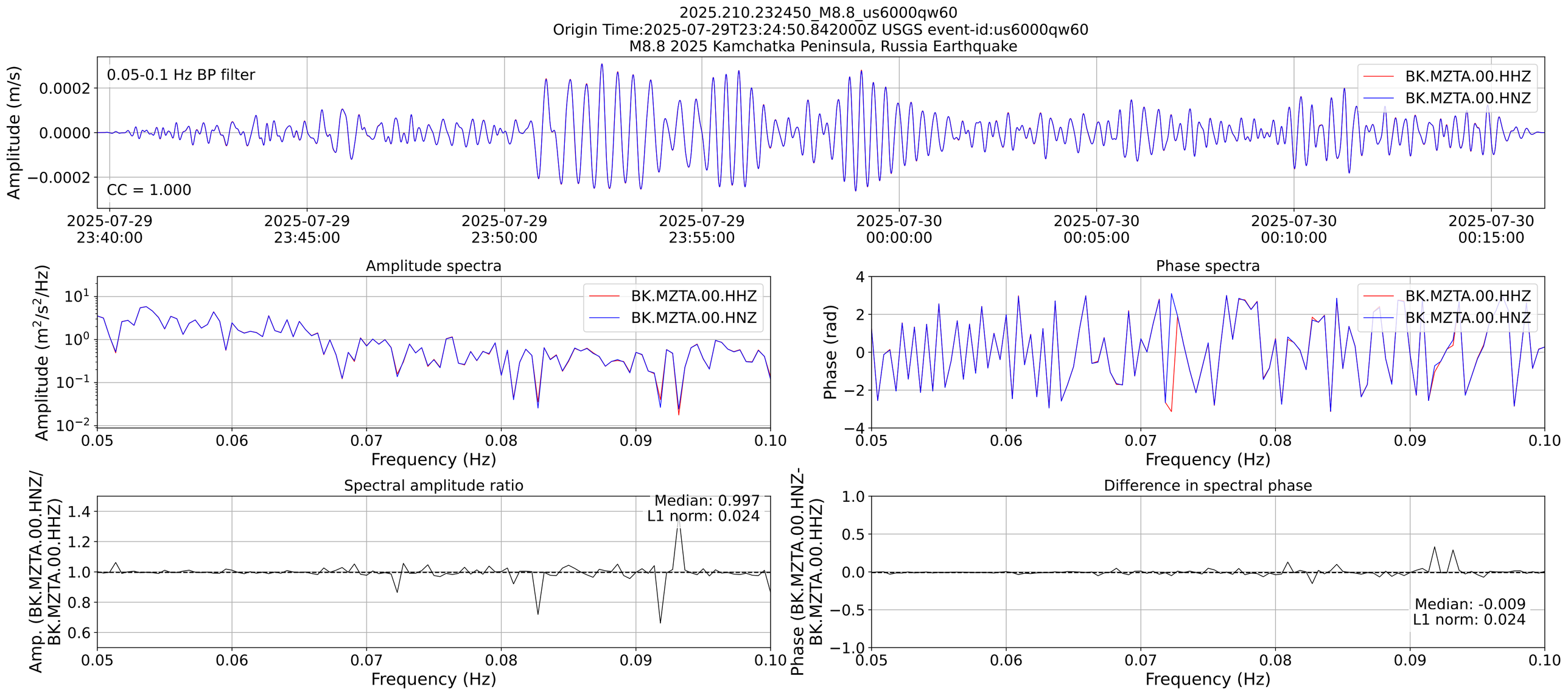

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MTOS.00.HHE
BK.MTOS.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.00.HNE/ BK.MTOS.00.HHE)
Median: 0.964
L1 norm: 0.019
Difference in spectral phase
Phase (BK.MTOS.00.HNE- BK.MTOS.00.HHE)
Median: -0.001
L1 norm: 0.025

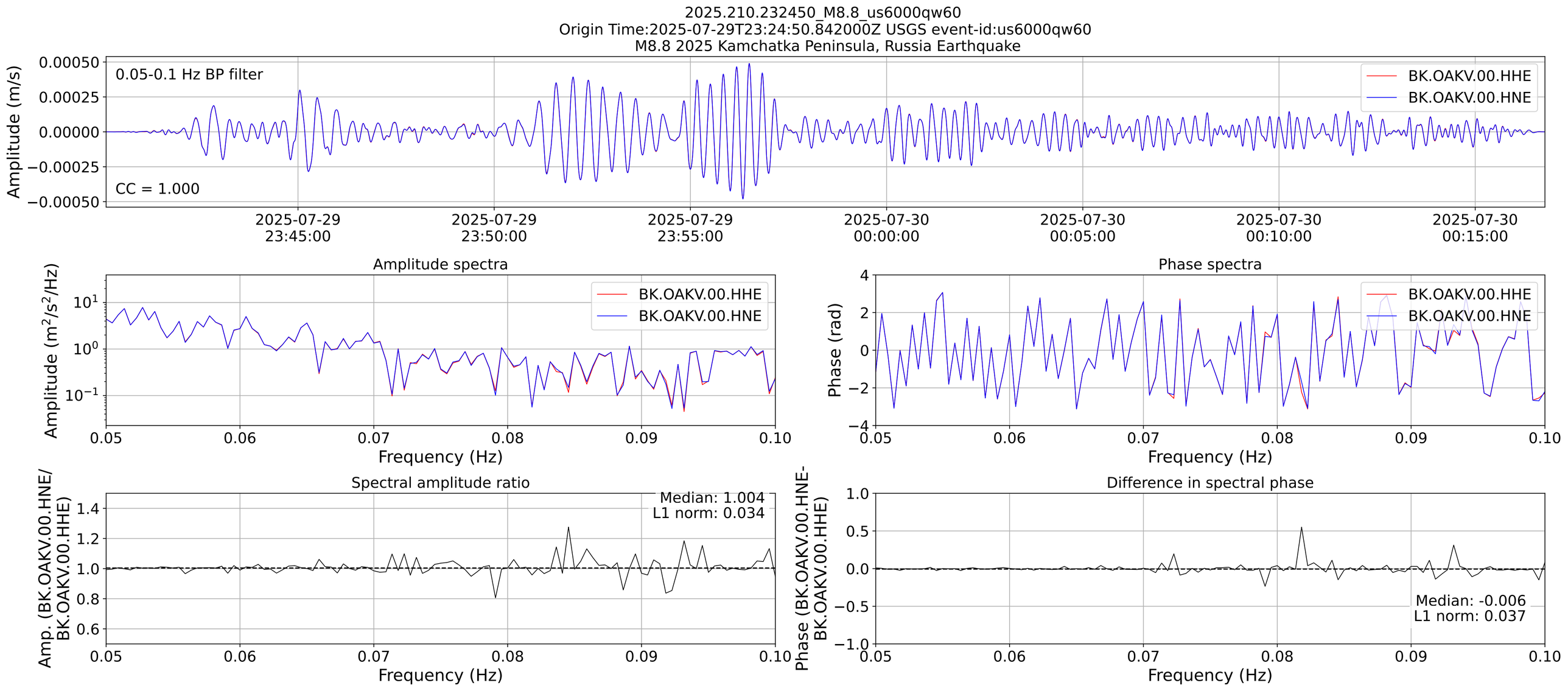

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MTOS.00.HHN
BK.MTOS.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.00.HNN/ BK.MTOS.00.HHN)
Median: 0.978
L1 norm: 0.017
Difference in spectral phase
Phase (BK.MTOS.00.HNN- BK.MTOS.00.HHN)
Median: -0.000
L1 norm: 0.019

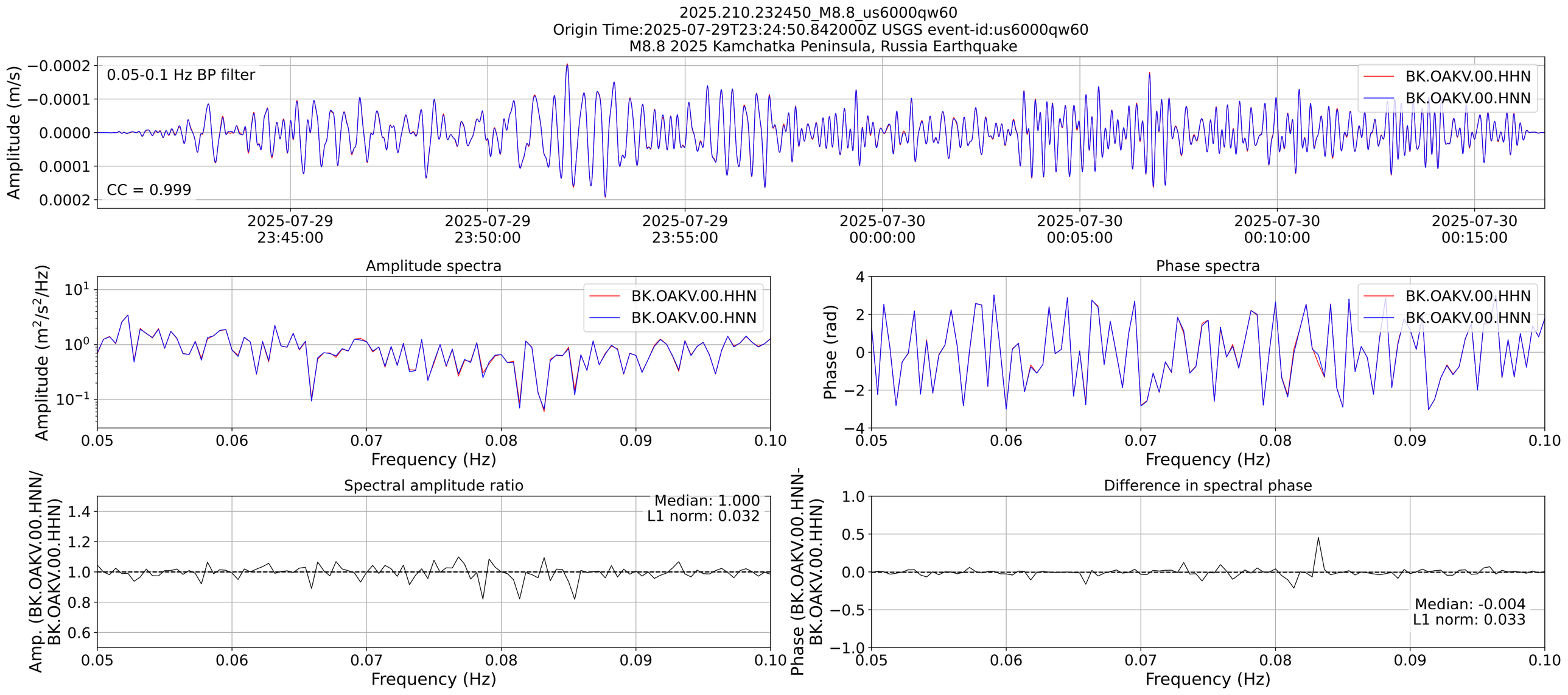

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MTOS.00.HHZ
BK.MTOS.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.00.HNZ/ BK.MTOS.00.HHZ)
Median: 0.942
L1 norm: 0.016
Difference in spectral phase
Phase (BK.MTOS.00.HNZ- BK.MTOS.00.HHZ)
Median: -0.000
L1 norm: 0.017

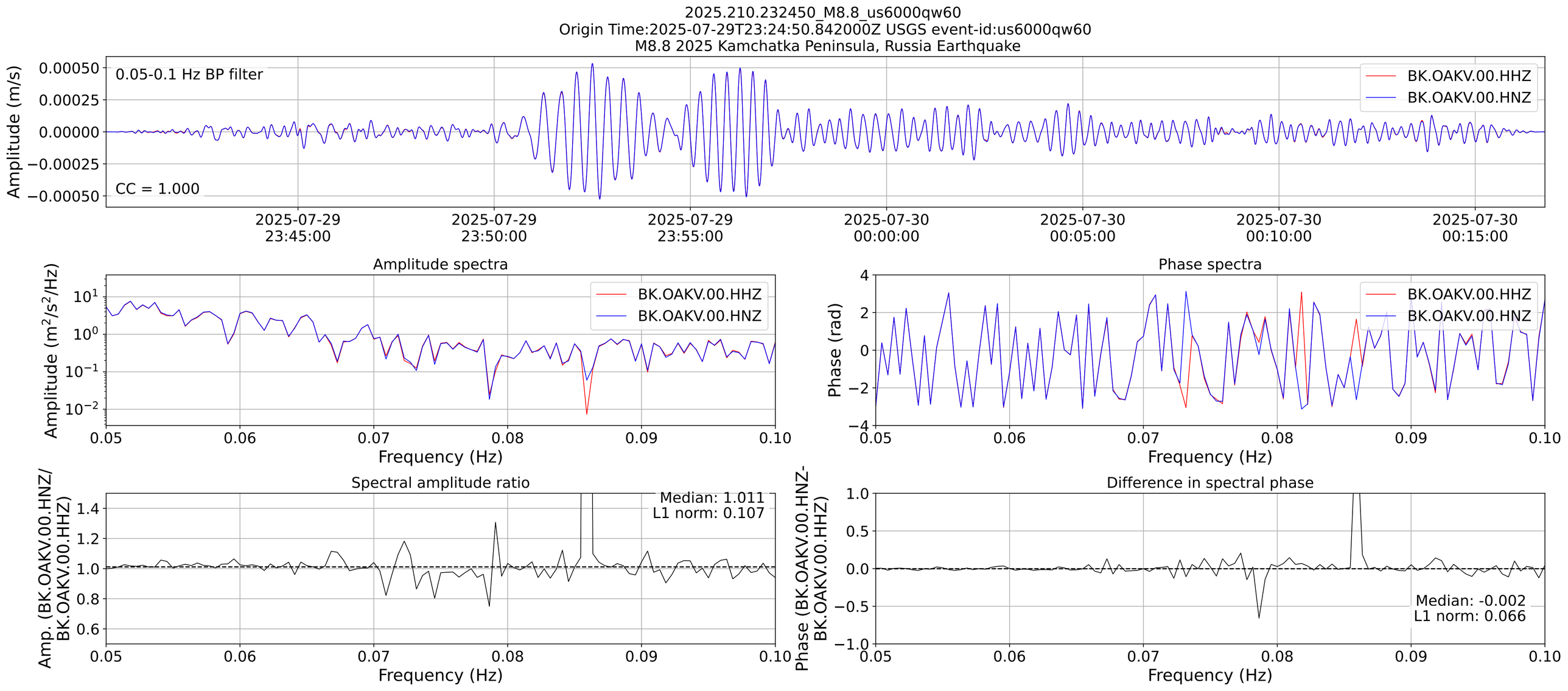

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MZTA.00.HHE
BK.MZTA.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNE/ BK.MZTA.00.HHE)
Median: 0.979
L1 norm: 0.046
Difference in spectral phase
Phase (BK.MZTA.00.HNE- BK.MZTA.00.HHE)
Median: -0.003
L1 norm: 0.043

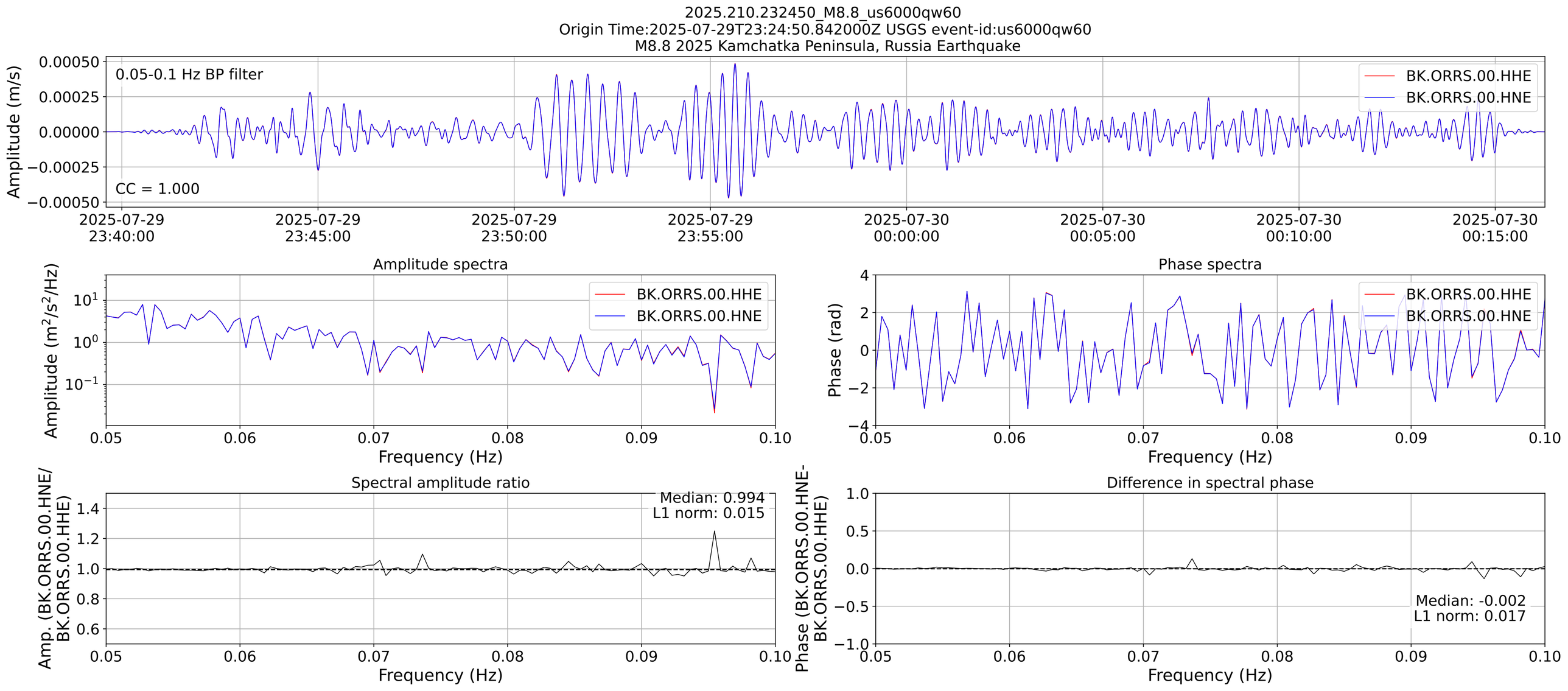

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
BK.MZTA.00.HHN
BK.MZTA.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNN/ BK.MZTA.00.HHN)
Median: 0.995
L1 norm: 0.074
Difference in spectral phase
Phase (BK.MZTA.00.HNN- BK.MZTA.00.HHN)
Median: 0.007
L1 norm: 0.060

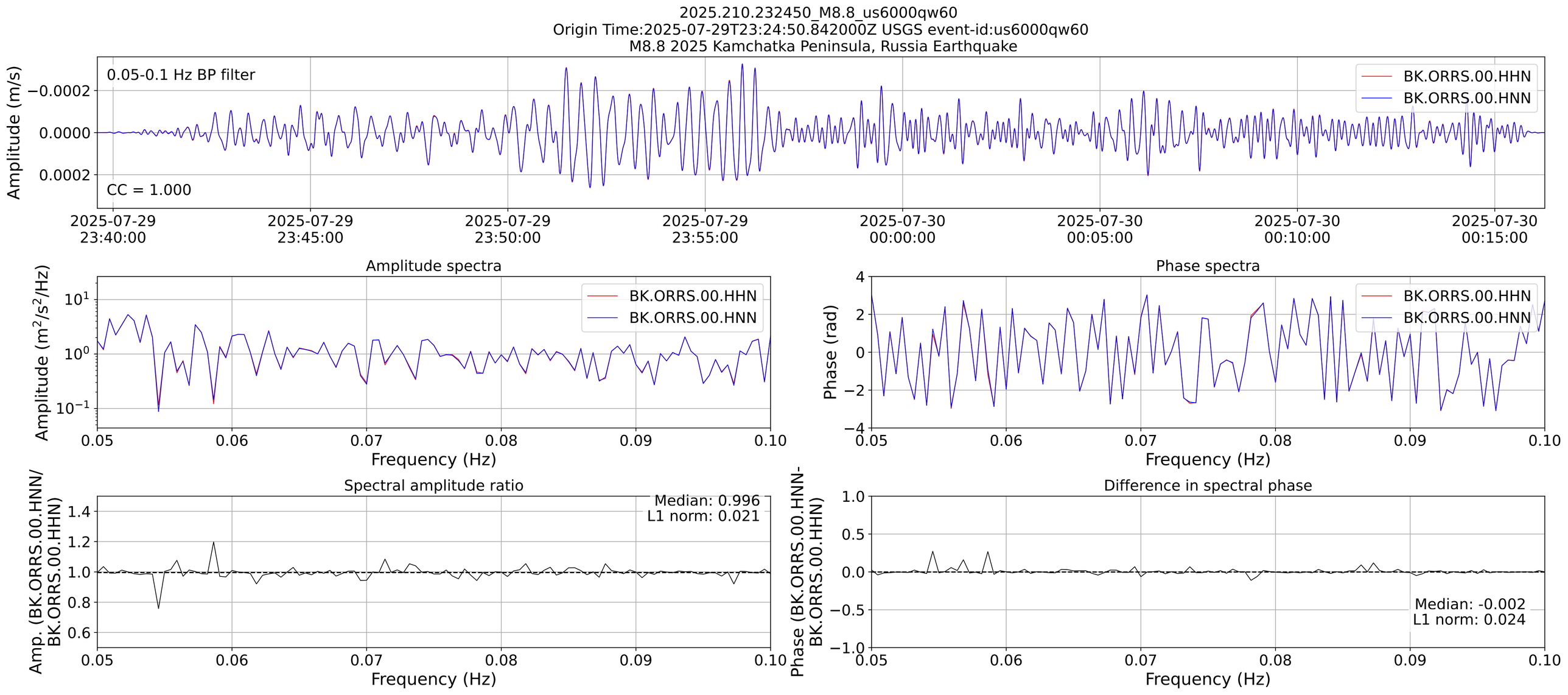

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.MZTA.00.HHZ
BK.MZTA.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNZ/ BK.MZTA.00.HHZ)
Median: 0.997
L1 norm: 0.024
Difference in spectral phase
Phase (BK.MZTA.00.HNZ- BK.MZTA.00.HHZ)
Median: -0.009
L1 norm: 0.024

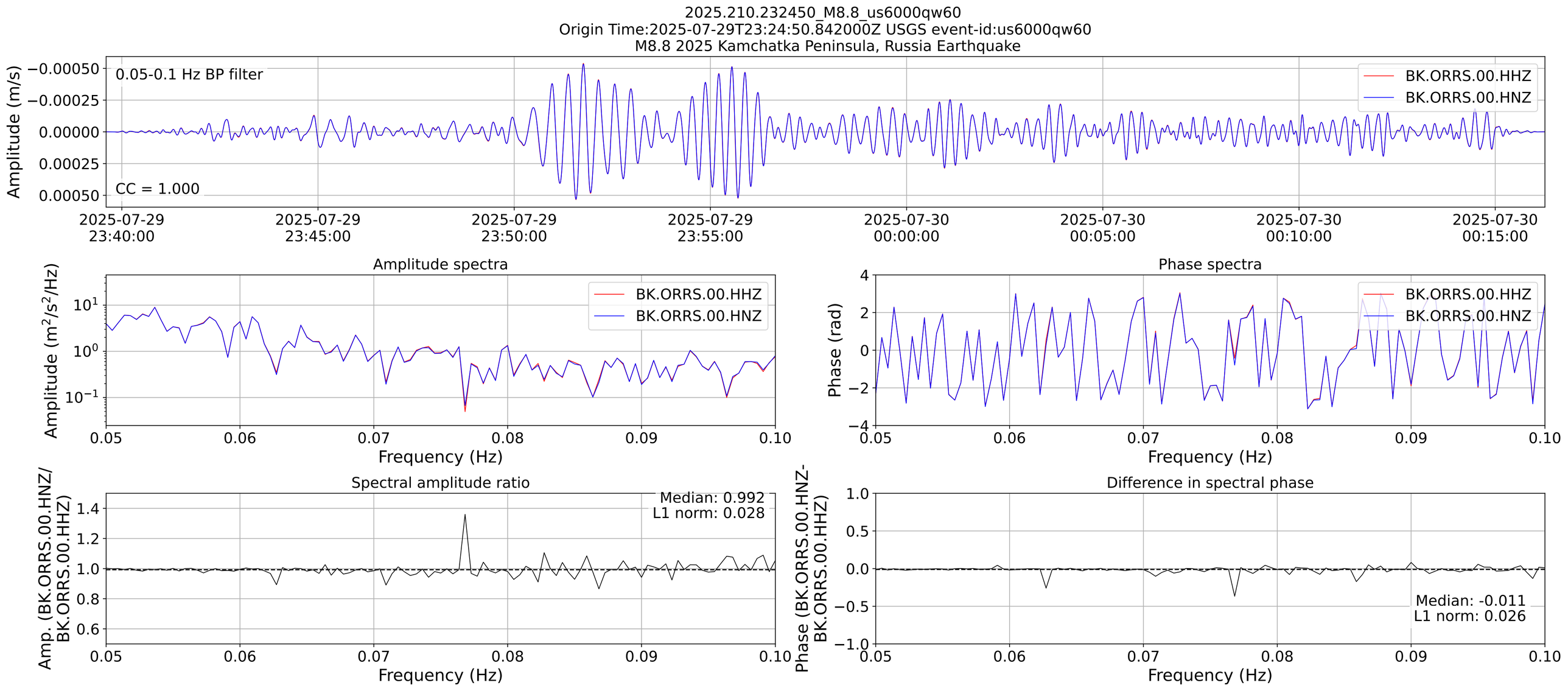

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.OAKV.00.HHE
BK.OAKV.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNE/ BK.OAKV.00.HHE)
Median: 1.004
L1 norm: 0.034
Difference in spectral phase
Phase (BK.OAKV.00.HNE- BK.OAKV.00.HHE)
Median: -0.006
L1 norm: 0.037

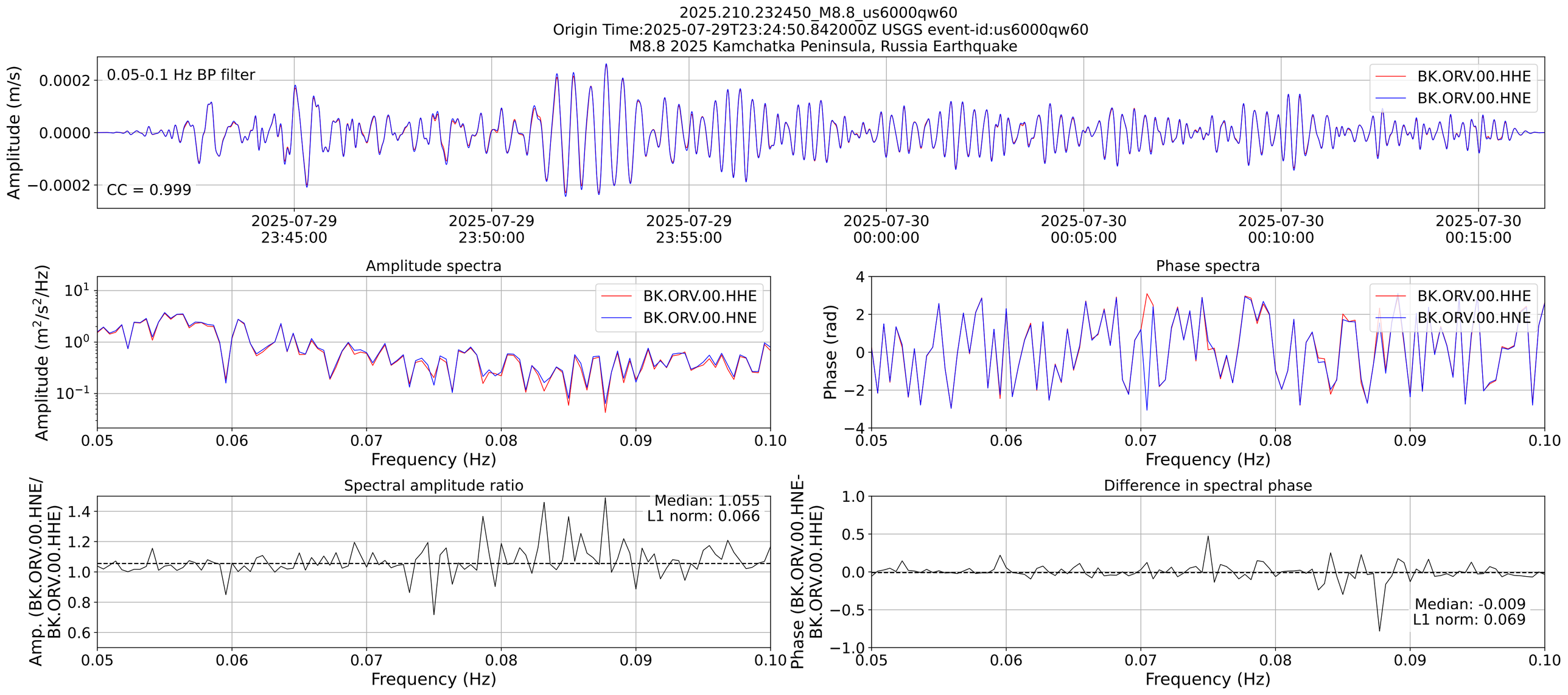

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.OAKV.00.HHN
BK.OAKV.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNN/ BK.OAKV.00.HHN)
Median: 1.000
L1 norm: 0.032
Difference in spectral phase
Phase (BK.OAKV.00.HNN- BK.OAKV.00.HHN)
Median: -0.004
L1 norm: 0.033

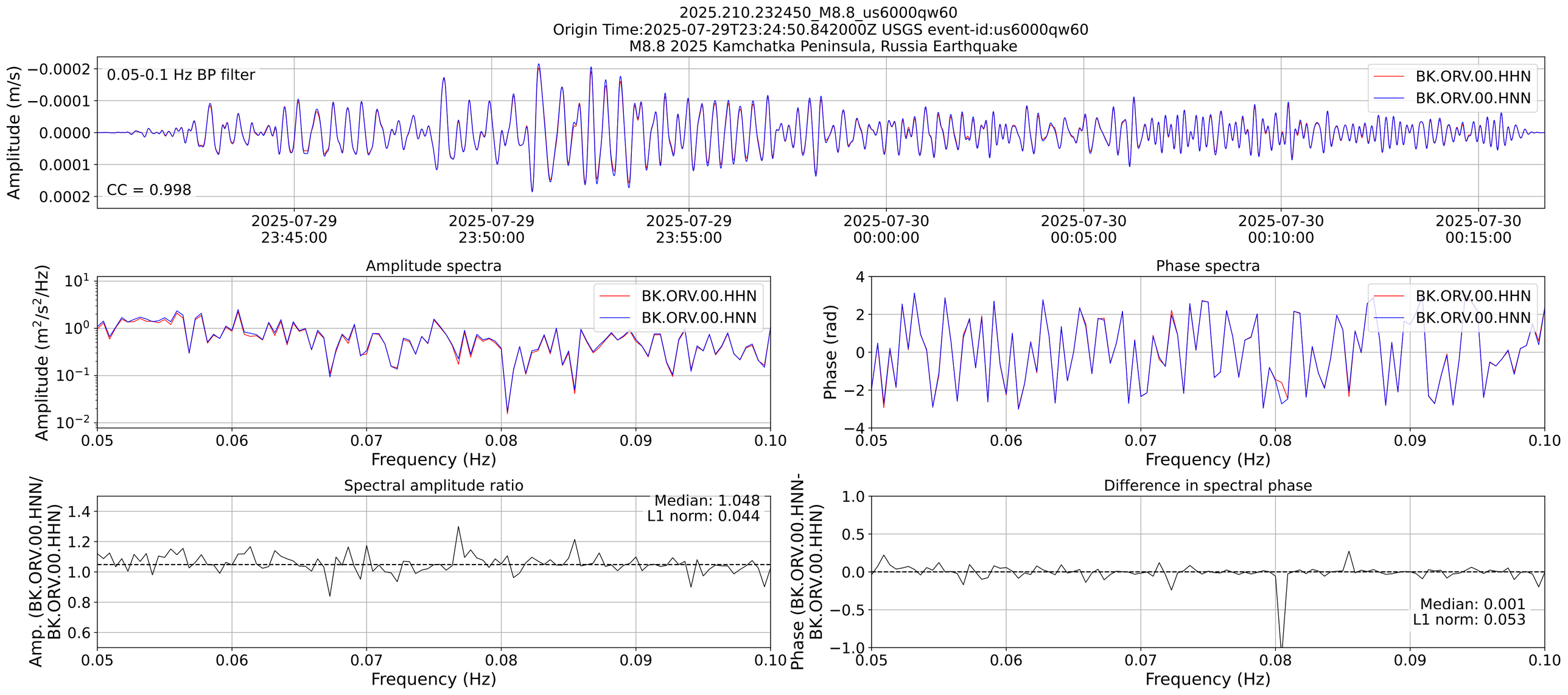

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.OAKV.00.HHZ
BK.OAKV.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNZ/ BK.OAKV.00.HHZ)
Median: 1.011
L1 norm: 0.107
Difference in spectral phase
Phase (BK.OAKV.00.HNZ- BK.OAKV.00.HHZ)
Median: -0.002
L1 norm: 0.066

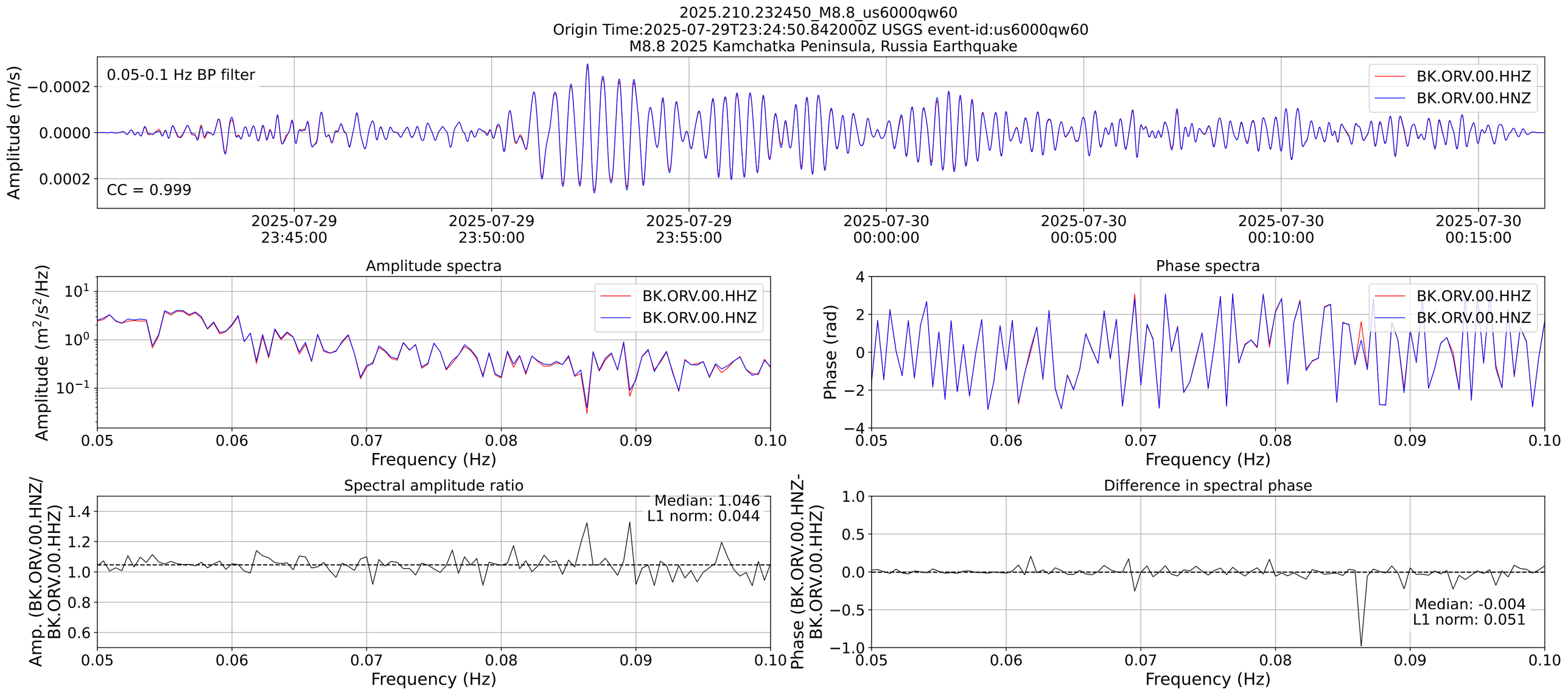

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ORRS.00.HHE
BK.ORRS.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORRS.00.HNE/ BK.ORRS.00.HHE)
Median: 0.994
L1 norm: 0.015
Difference in spectral phase
Phase (BK.ORRS.00.HNE- BK.ORRS.00.HHE)
Median: -0.002
L1 norm: 0.017

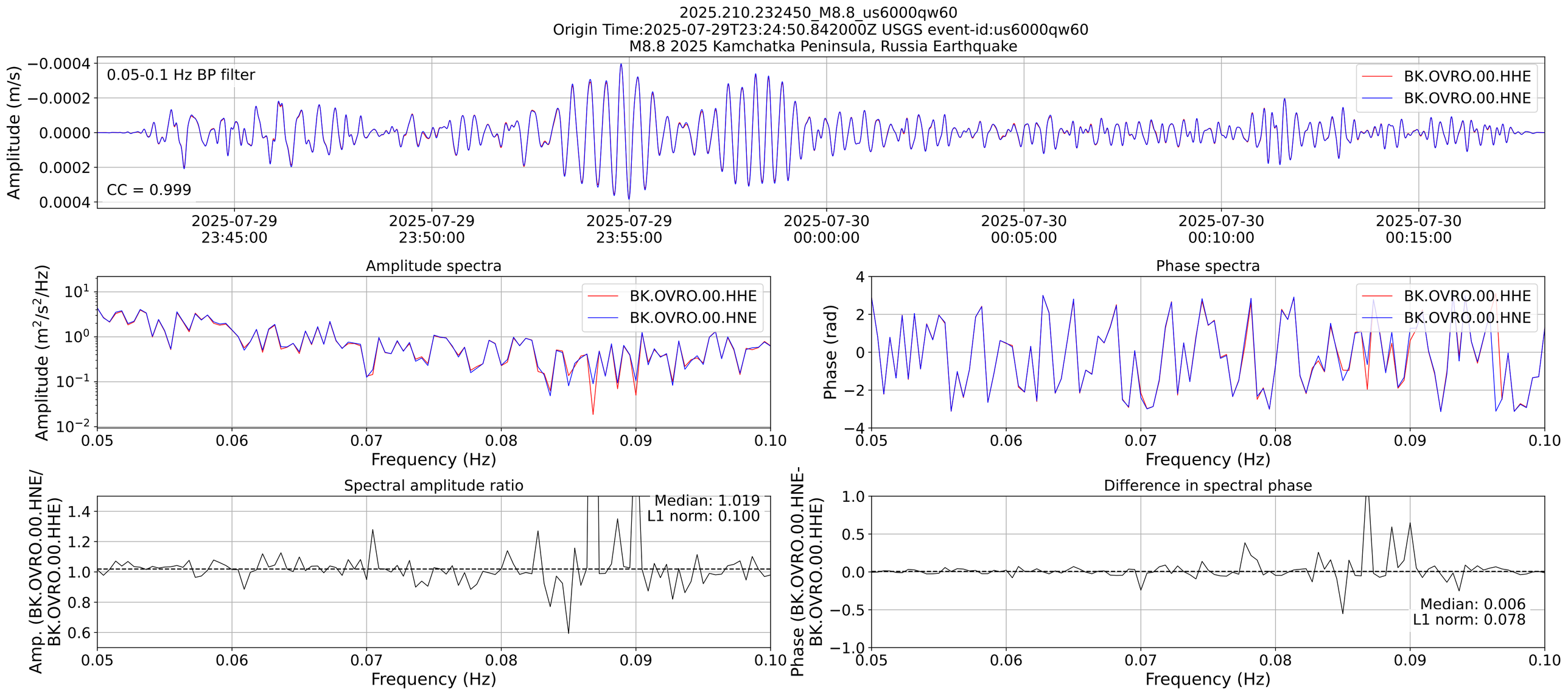

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ORRS.00.HHN
BK.ORRS.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORRS.00.HNN/ BK.ORRS.00.HHN)
Median: 0.996
L1 norm: 0.021
Difference in spectral phase
Phase (BK.ORRS.00.HNN- BK.ORRS.00.HHN)
Median: -0.002
L1 norm: 0.024

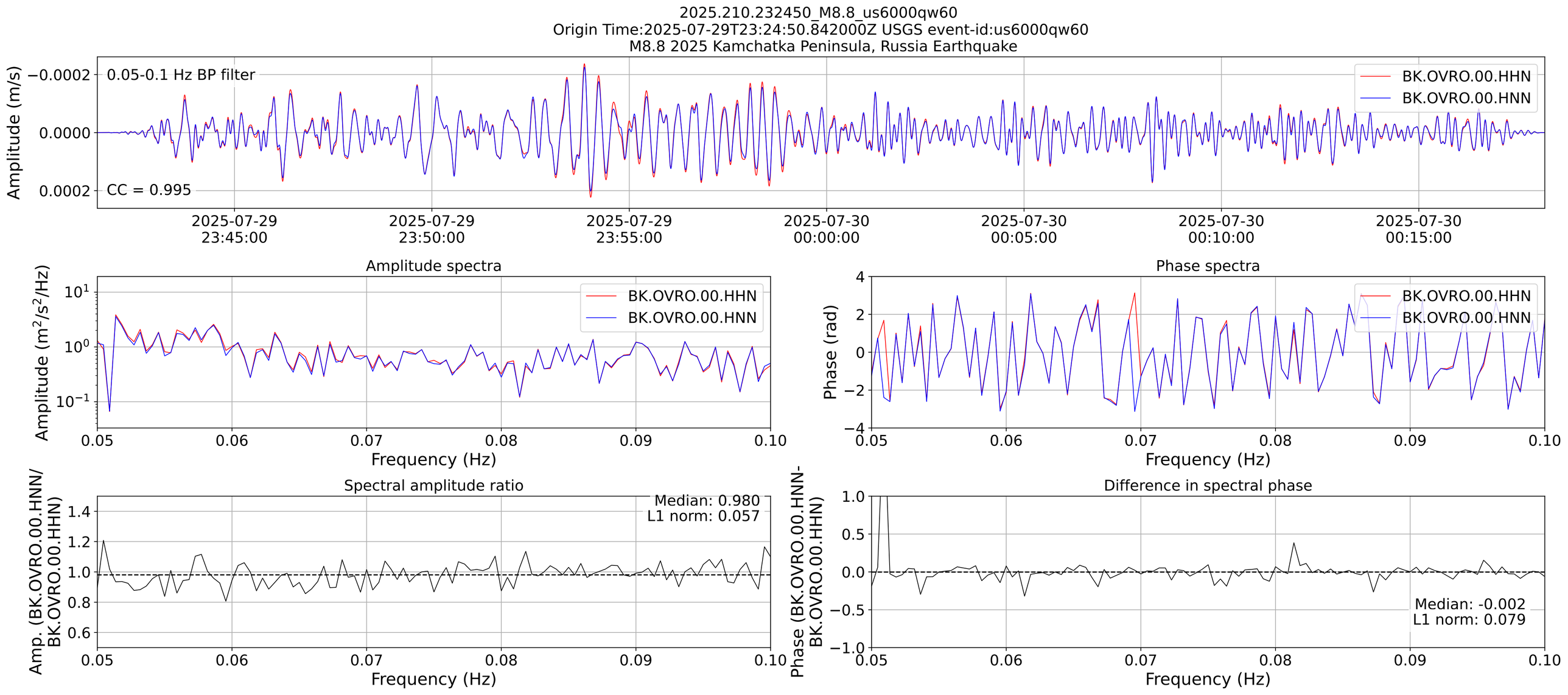

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ORRS.00.HHZ
BK.ORRS.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORRS.00.HNZ/ BK.ORRS.00.HHZ)
Median: 0.992
L1 norm: 0.028
Difference in spectral phase
Phase (BK.ORRS.00.HNZ- BK.ORRS.00.HHZ)
Median: -0.011
L1 norm: 0.026

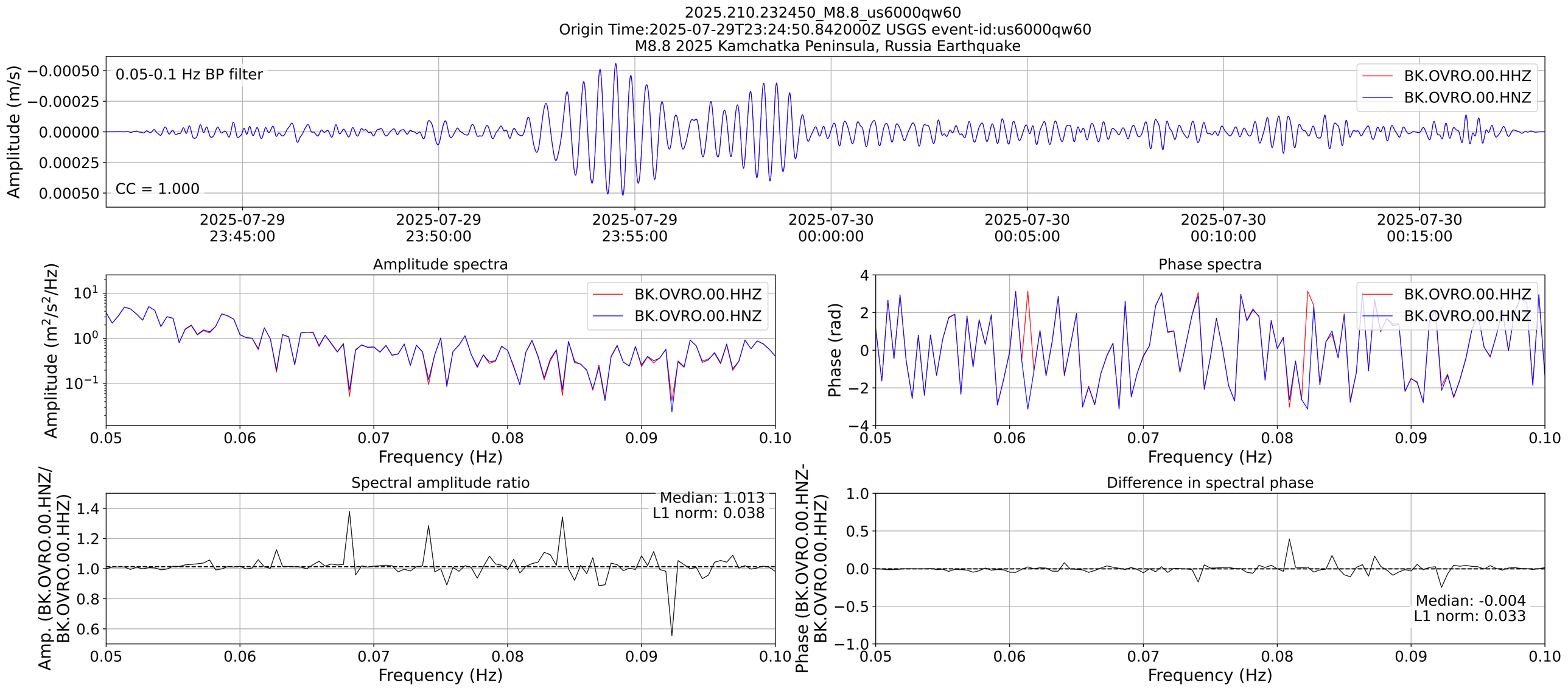

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.ORV.00.HHE
BK.ORV.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORV.00.HNE/ BK.ORV.00.HHE)
Median: 1.055
L1 norm: 0.066
Difference in spectral phase
Phase (BK.ORV.00.HNE- BK.ORV.00.HHE)
Median: -0.009
L1 norm: 0.069

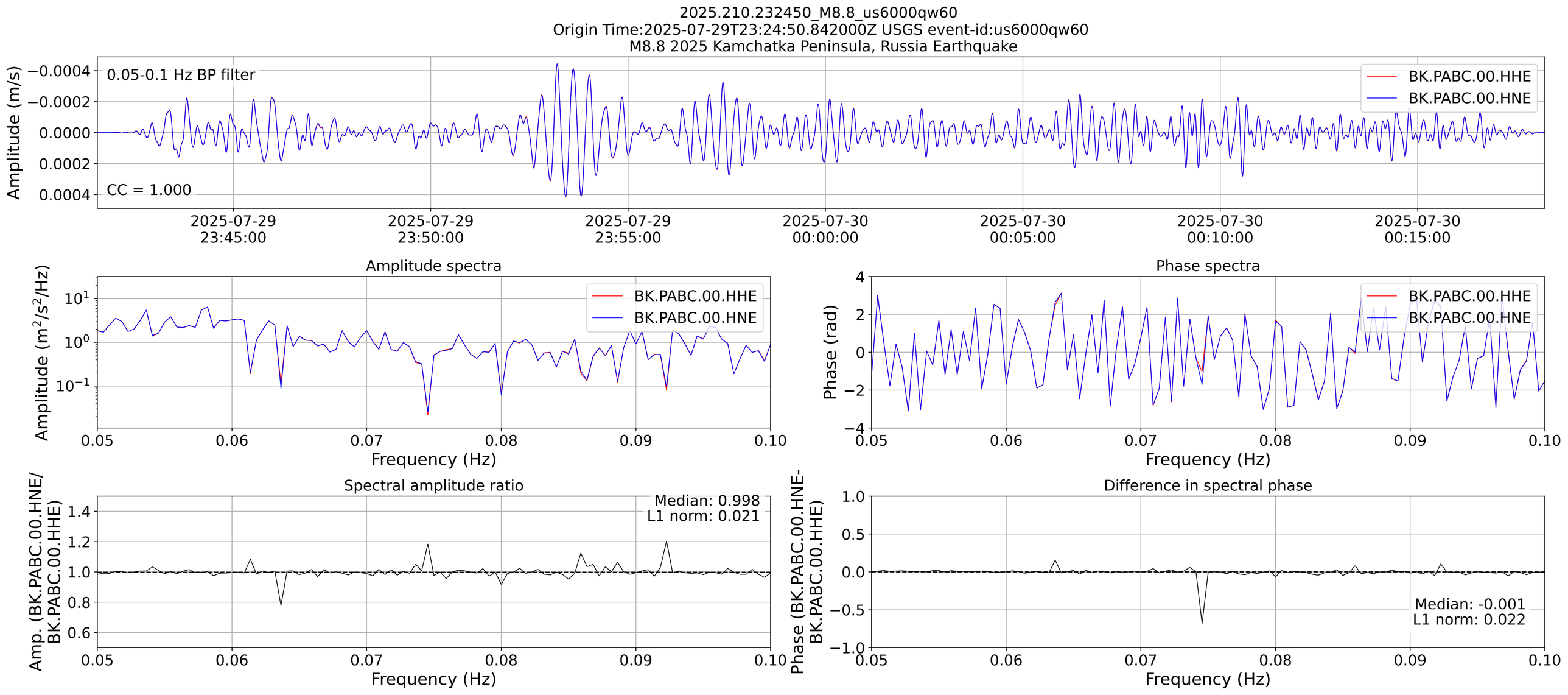

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.ORV.00.HHN
BK.ORV.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORV.00.HNN/ BK.ORV.00.HHN)
Median: 1.048
L1 norm: 0.044
Difference in spectral phase
Phase (BK.ORV.00.HNN- BK.ORV.00.HHN)
Median: 0.001
L1 norm: 0.053

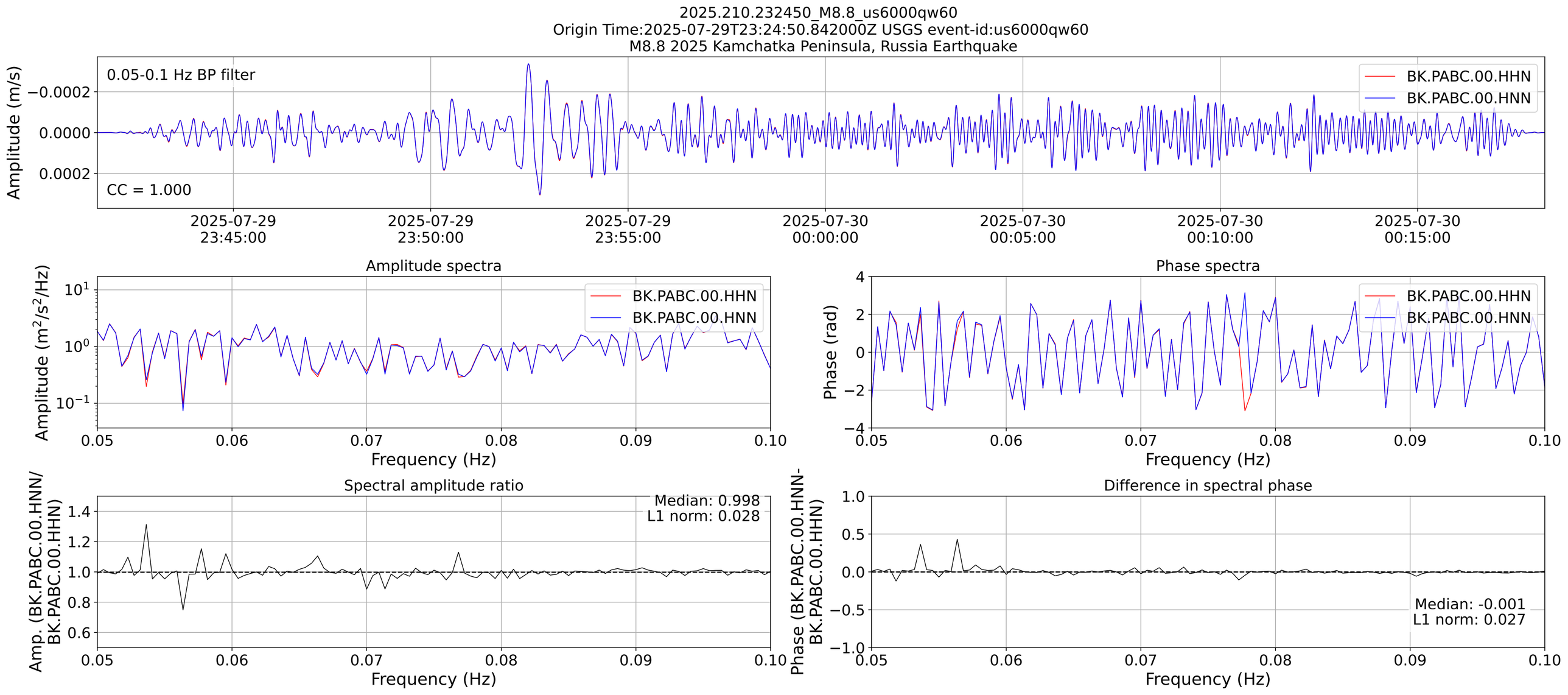

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.ORV.00.HHZ
BK.ORV.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ORV.00.HNZ/ BK.ORV.00.HHZ)
Median: 1.046
L1 norm: 0.044
Difference in spectral phase
Phase (BK.ORV.00.HNZ- BK.ORV.00.HHZ)
Median: -0.004
L1 norm: 0.051

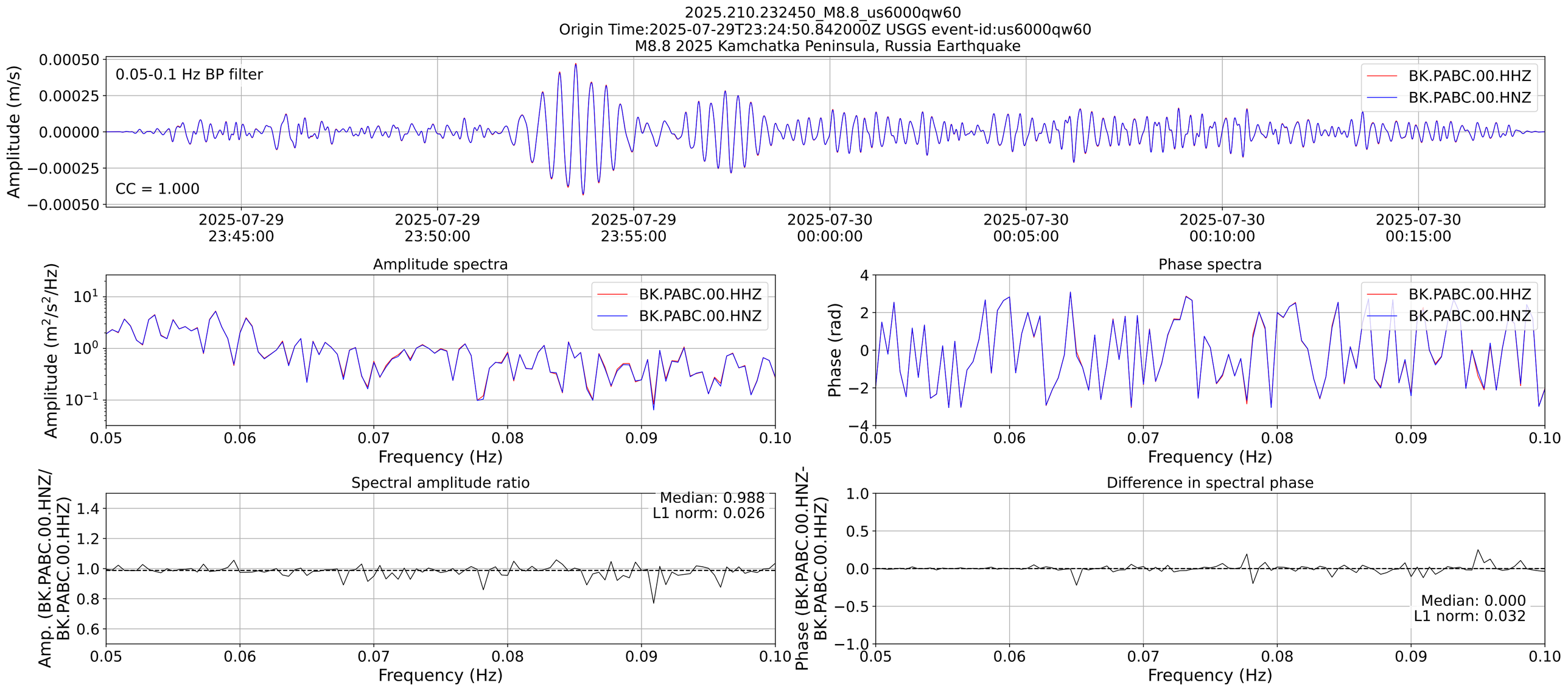

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.OVRO.00.HHE
BK.OVRO.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OVRO.00.HNE/ BK.OVRO.00.HHE)
Median: 1.019
L1 norm: 0.100
Difference in spectral phase
Phase (BK.OVRO.00.HNE- BK.OVRO.00.HHE)
Median: 0.006
L1 norm: 0.078

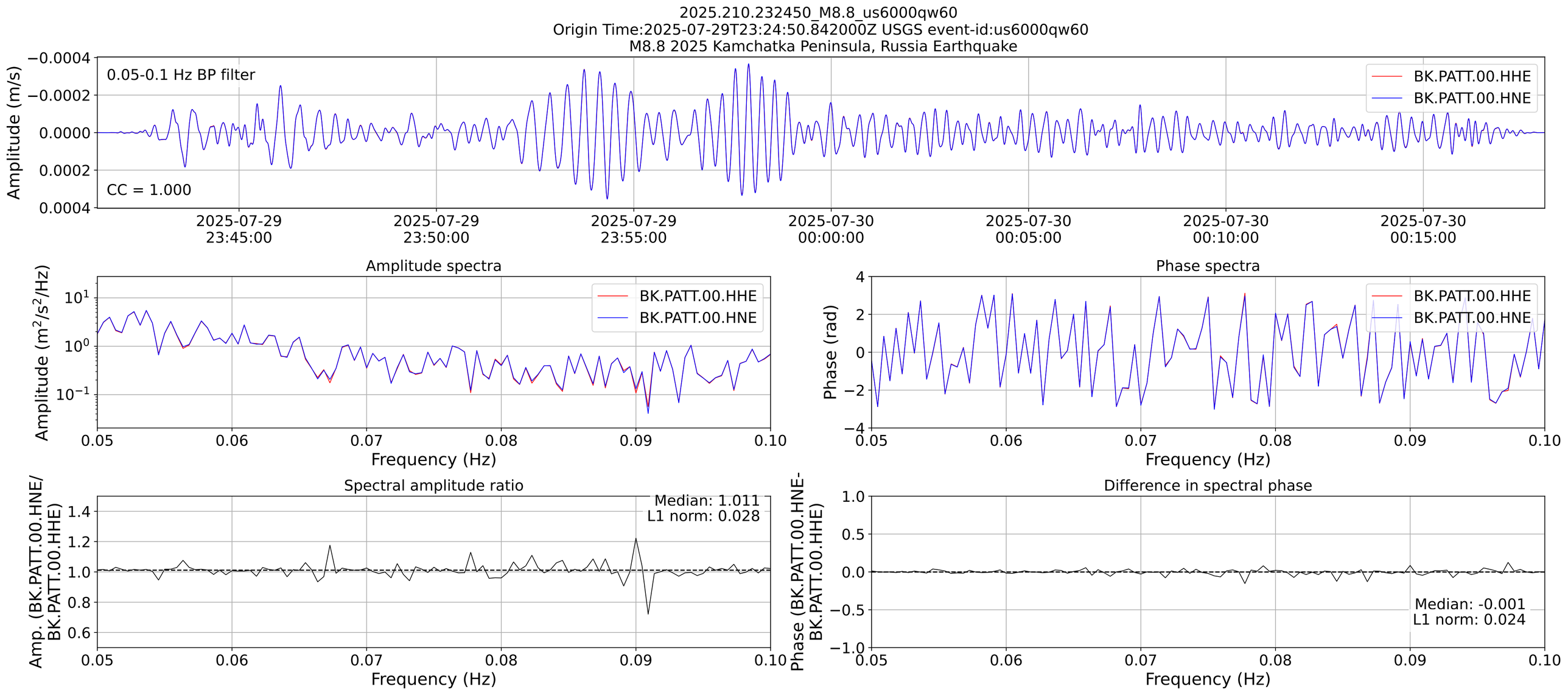

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
BK.OVRO.00.HHN
BK.OVRO.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OVRO.00.HNN/ BK.OVRO.00.HHN)
Median: 0.980
L1 norm: 0.057
Difference in spectral phase
Phase (BK.OVRO.00.HNN- BK.OVRO.00.HHN)
Median: -0.002
L1 norm: 0.079

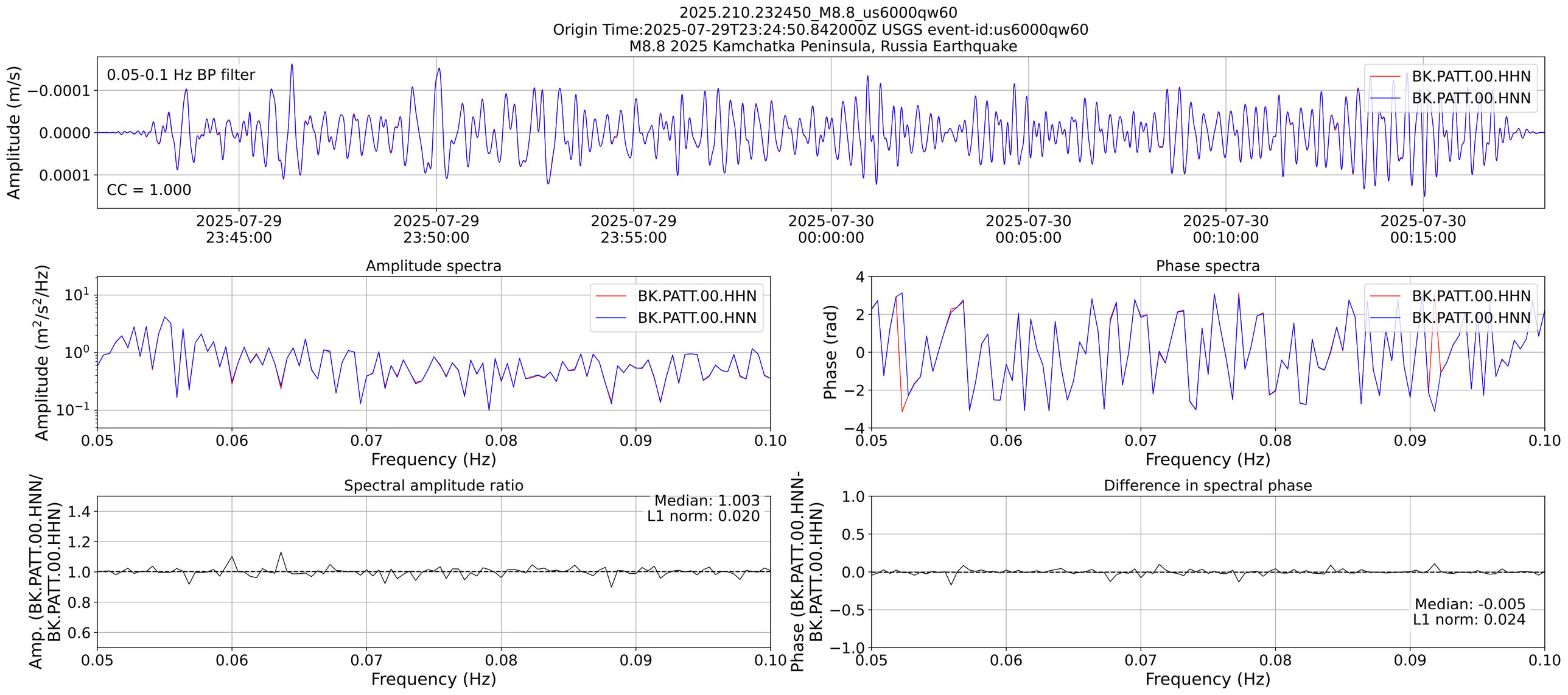

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.OVRO.00.HHZ
BK.OVRO.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OVRO.00.HNZ/ BK.OVRO.00.HHZ)
Median: 1.013
L1 norm: 0.038
Difference in spectral phase
Phase (BK.OVRO.00.HNZ- BK.OVRO.00.HHZ)
Median: -0.004
L1 norm: 0.033

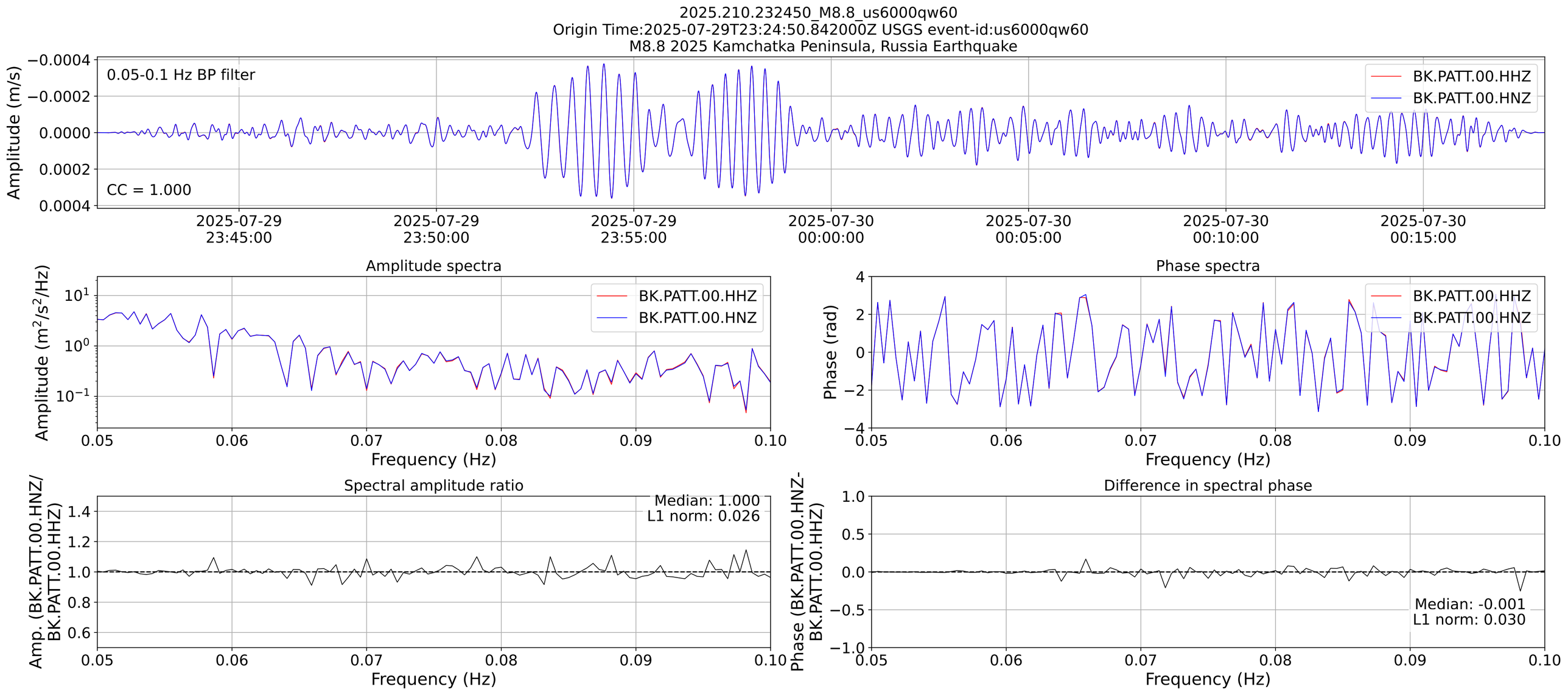

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PABC.00.HHE
BK.PABC.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PABC.00.HNE/ BK.PABC.00.HHE)
Median: 0.998
L1 norm: 0.021
Difference in spectral phase
Phase (BK.PABC.00.HNE- BK.PABC.00.HHE)
Median: -0.001
L1 norm: 0.022

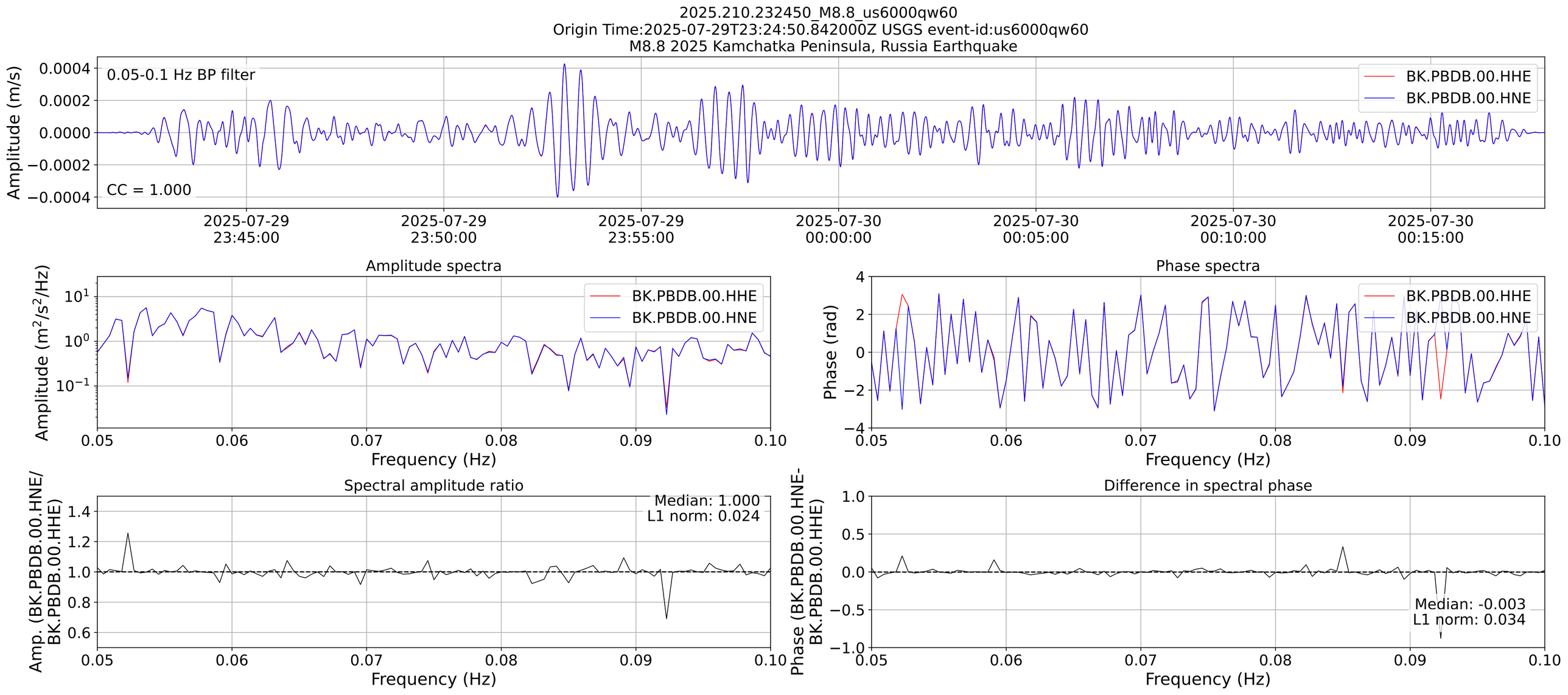

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PABC.00.HHN
BK.PABC.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PABC.00.HNN/ BK.PABC.00.HHN)
Median: 0.998
L1 norm: 0.028
Difference in spectral phase
Phase (BK.PABC.00.HNN- BK.PABC.00.HHN)
Median: -0.001
L1 norm: 0.027

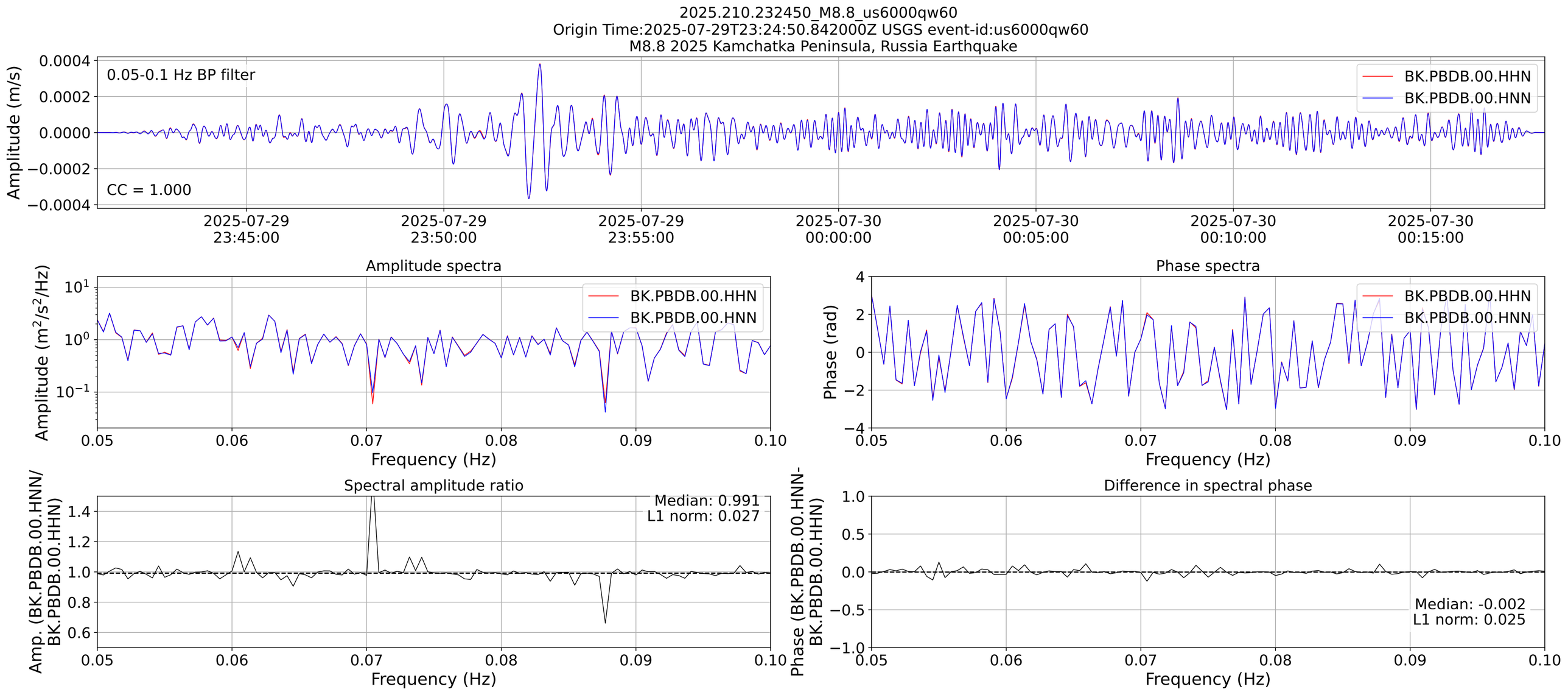

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PABC.00.HHZ
BK.PABC.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PABC.00.HNZ/ BK.PABC.00.HHZ)
Median: 0.988
L1 norm: 0.026
Difference in spectral phase
Phase (BK.PABC.00.HNZ- BK.PABC.00.HHZ)
Median: 0.000
L1 norm: 0.032

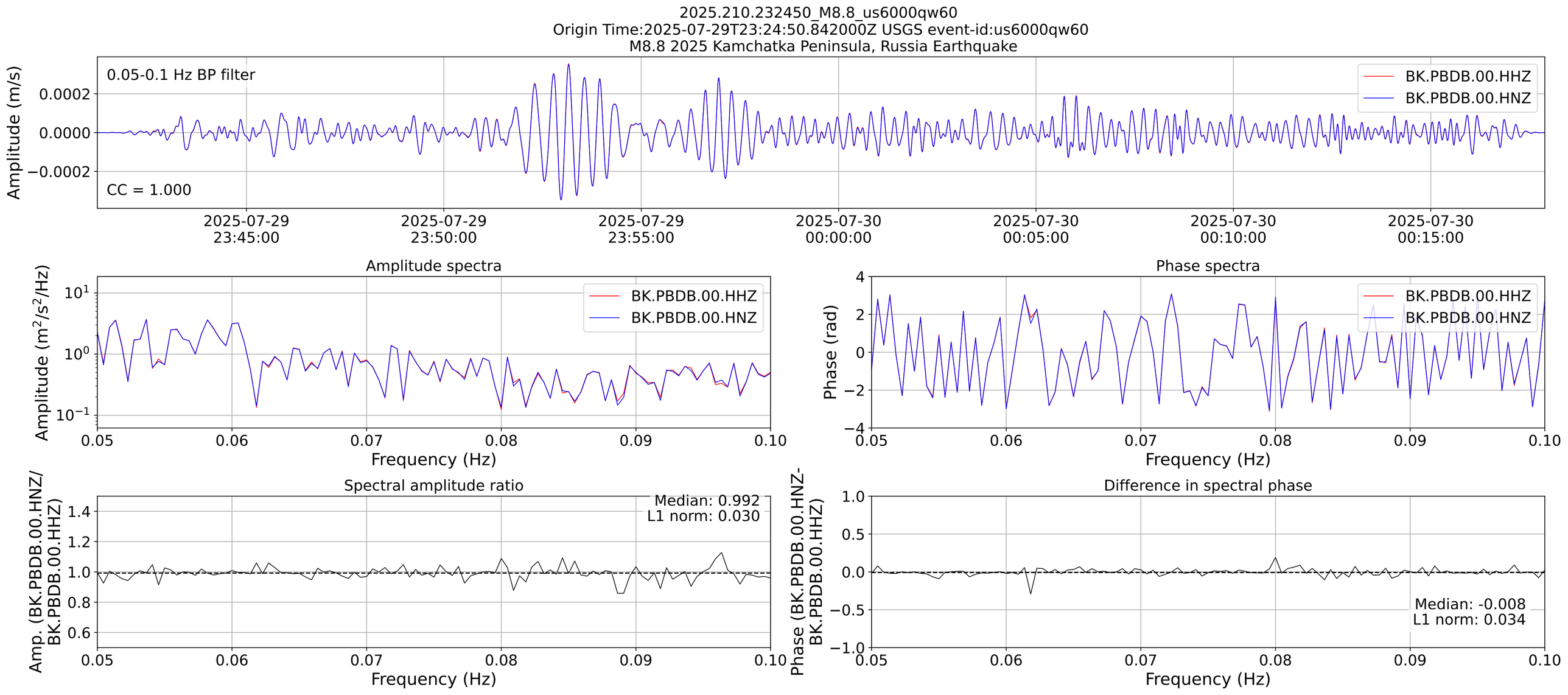

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PATT.00.HHE
BK.PATT.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNE/ BK.PATT.00.HHE)
Median: 1.011
L1 norm: 0.028
Difference in spectral phase
Phase (BK.PATT.00.HNE- BK.PATT.00.HHE)
Median: -0.001
L1 norm: 0.024

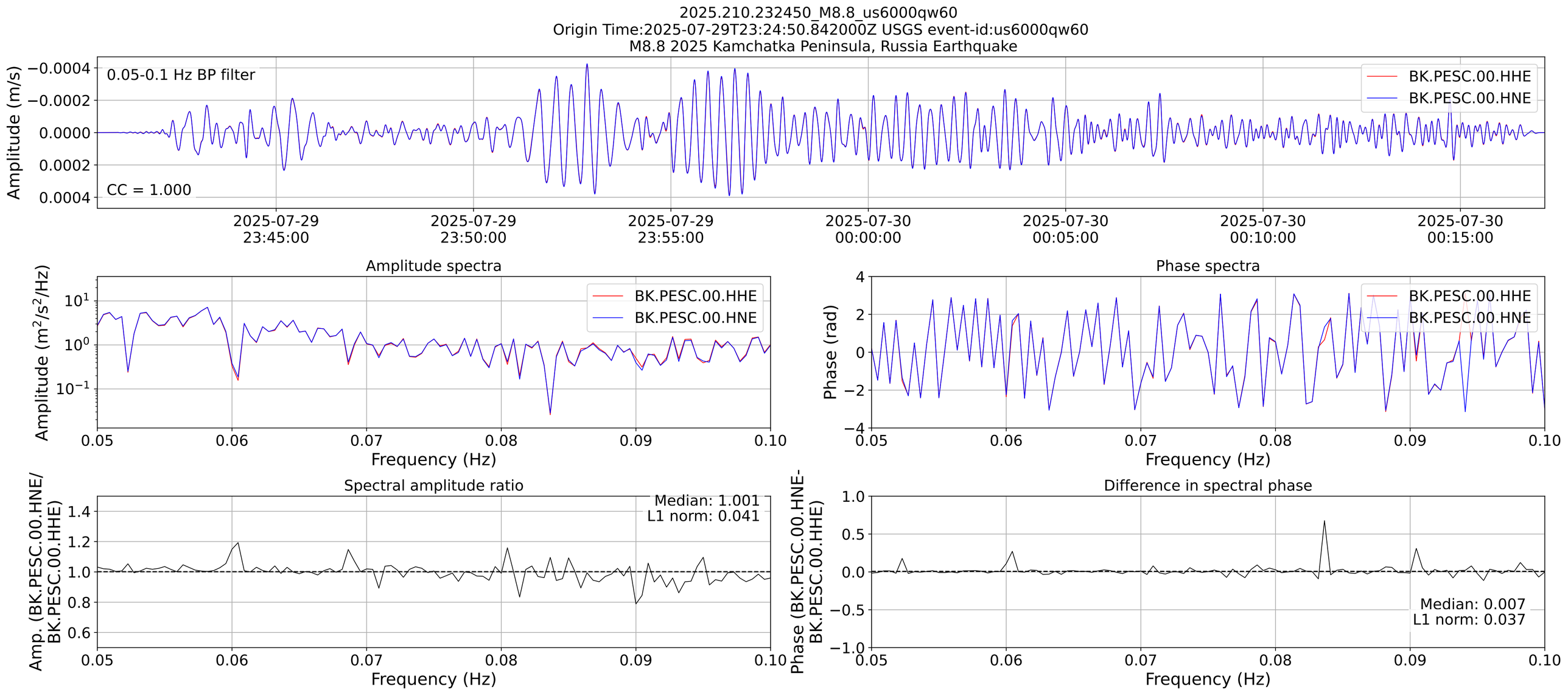

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PATT.00.HHN
BK.PATT.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNN/ BK.PATT.00.HHN)
Median: 1.003
L1 norm: 0.020
Difference in spectral phase
Phase (BK.PATT.00.HNN- BK.PATT.00.HHN)
Median: -0.005
L1 norm: 0.024

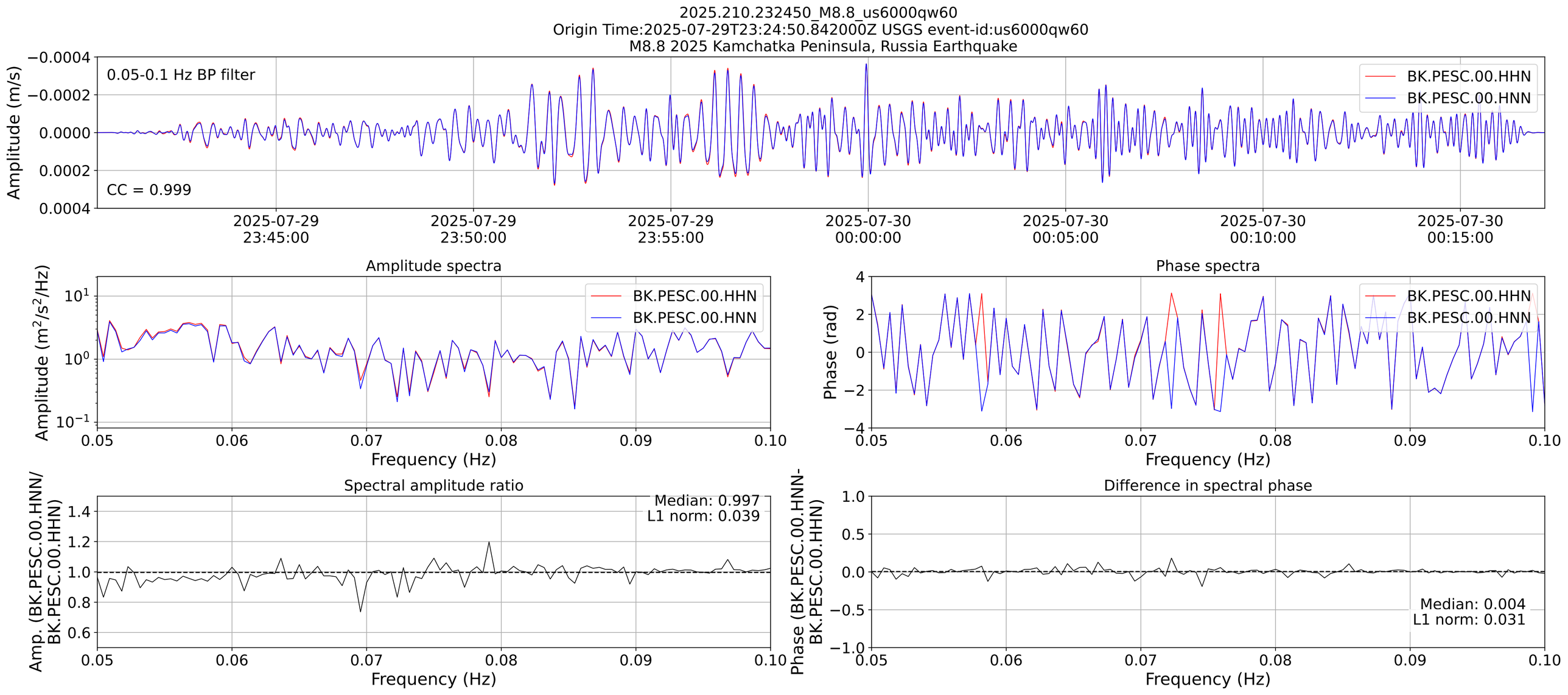

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PATT.00.HHZ
BK.PATT.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNZ/ BK.PATT.00.HHZ)
Median: 1.000
L1 norm: 0.026
Difference in spectral phase
Phase (BK.PATT.00.HNZ- BK.PATT.00.HHZ)
Median: -0.001
L1 norm: 0.030

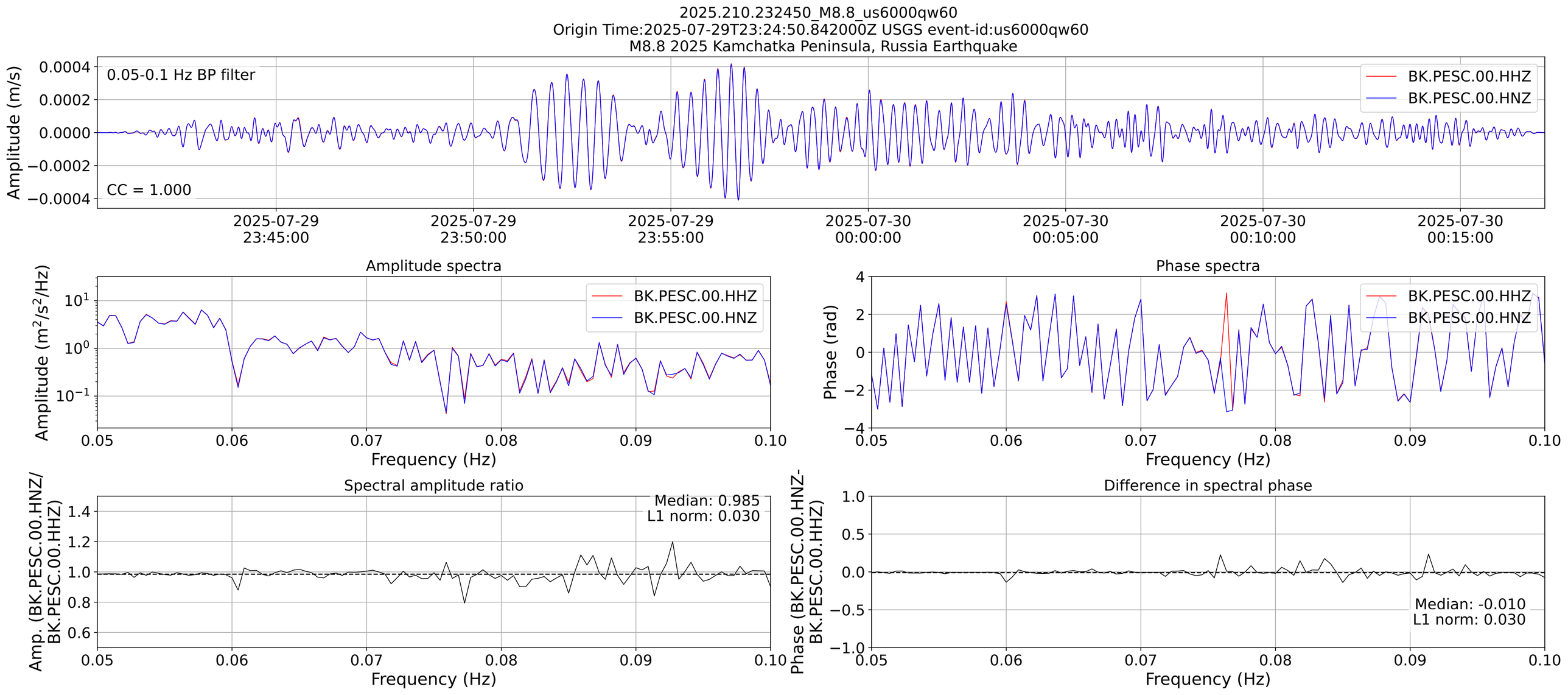

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PBDB.00.HHE
BK.PBDB.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNE/ BK.PBDB.00.HHE)
Median: 1.000
L1 norm: 0.024
Difference in spectral phase
Phase (BK.PBDB.00.HNE- BK.PBDB.00.HHE)
Median: -0.003
L1 norm: 0.034

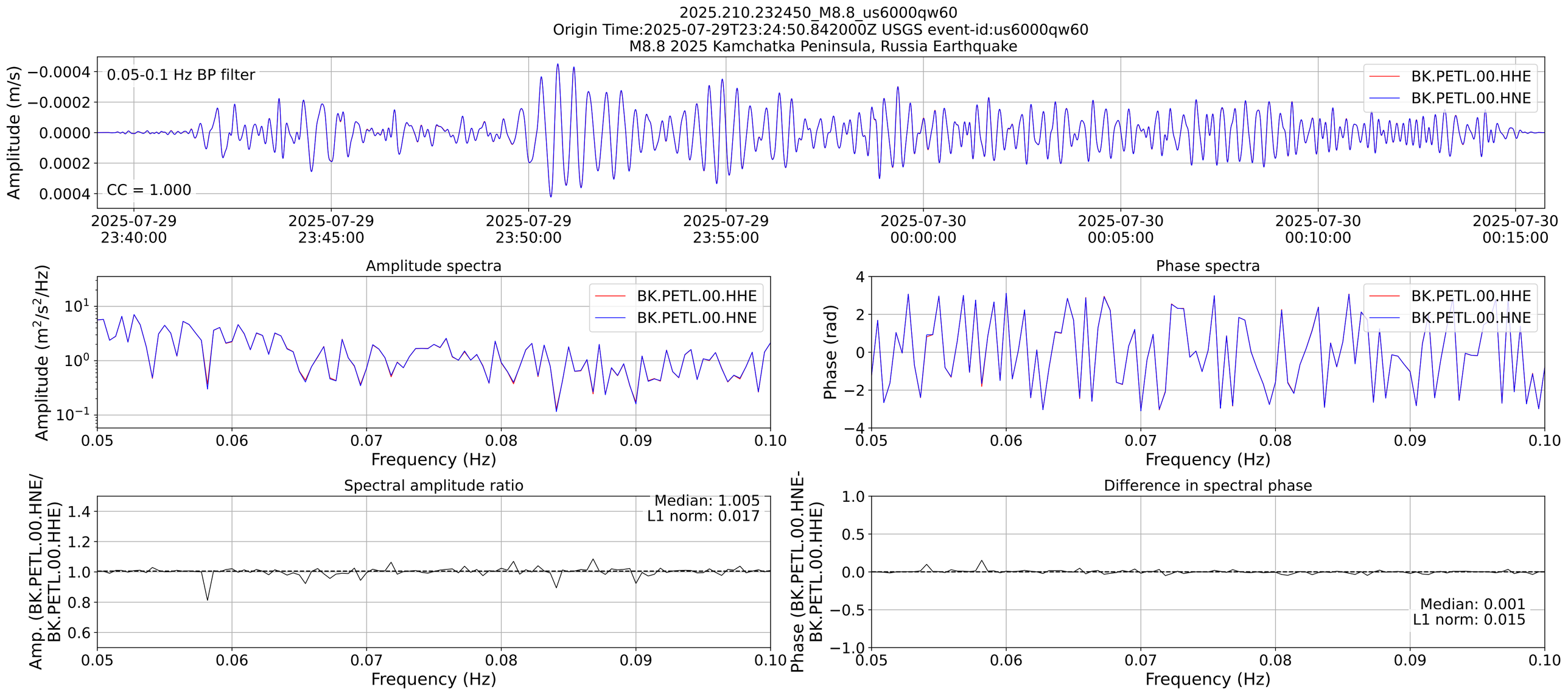

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PBDB.00.HHN
BK.PBDB.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNN/ BK.PBDB.00.HHN)
Median: 0.991
L1 norm: 0.027
Difference in spectral phase
Phase (BK.PBDB.00.HNN- BK.PBDB.00.HHN)
Median: -0.002
L1 norm: 0.025

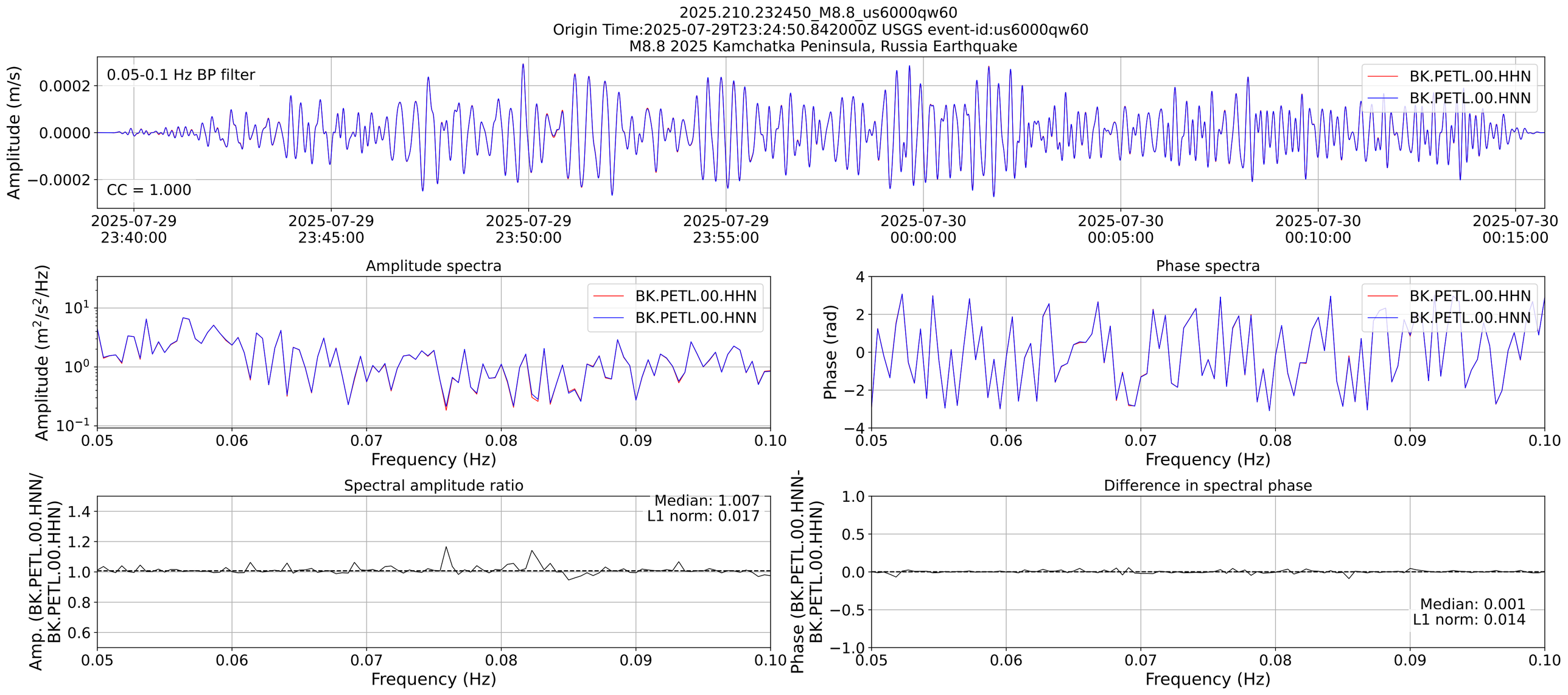

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PBDB.00.HHZ
BK.PBDB.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNZ/ BK.PBDB.00.HHZ)
Median: 0.992
L1 norm: 0.030
Difference in spectral phase
Phase (BK.PBDB.00.HNZ- BK.PBDB.00.HHZ)
Median: -0.008
L1 norm: 0.034

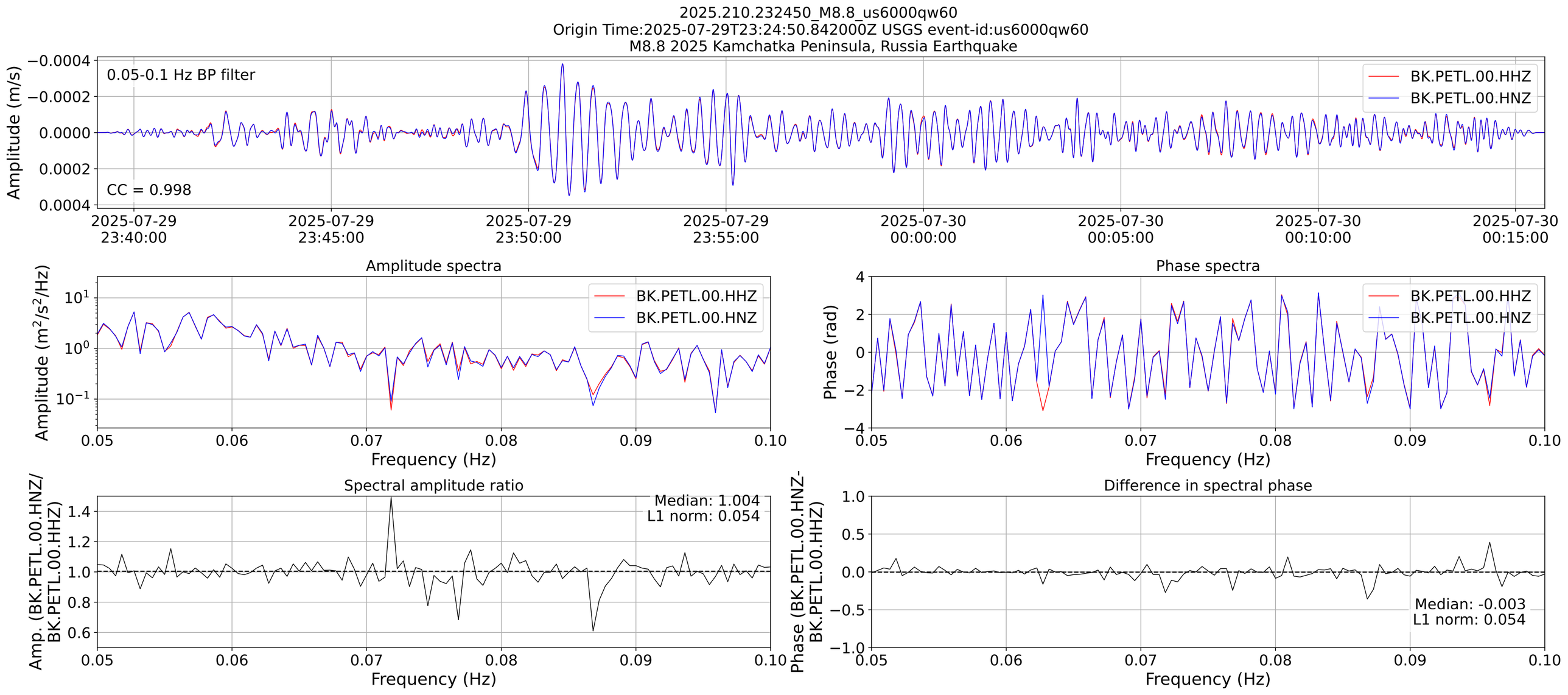

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PESC.00.HHE
BK.PESC.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNE/ BK.PESC.00.HHE)
Median: 1.001
L1 norm: 0.041
Difference in spectral phase
Phase (BK.PESC.00.HNE- BK.PESC.00.HHE)
Median: 0.007
L1 norm: 0.037

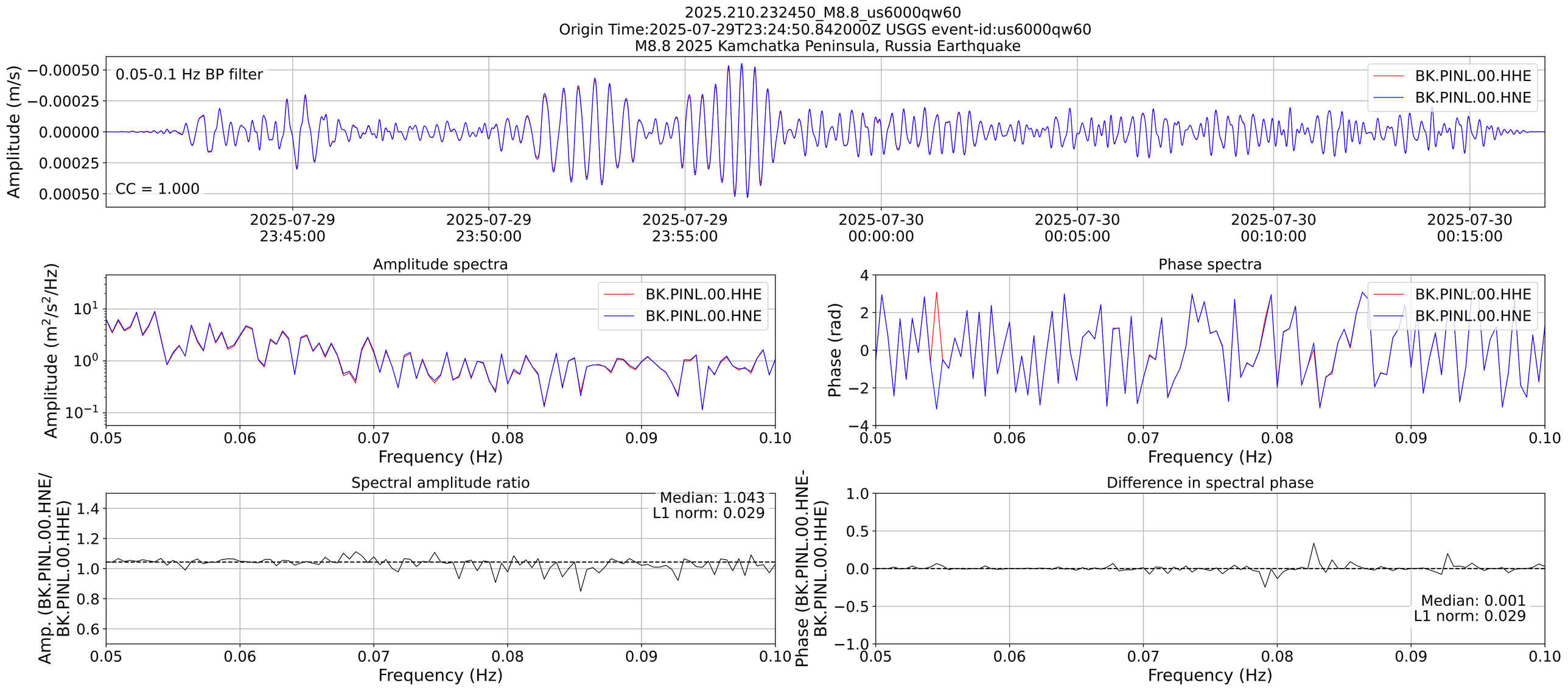

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PESC.00.HHN
BK.PESC.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNN/ BK.PESC.00.HHN)
Median: 0.997
L1 norm: 0.039
Difference in spectral phase
Phase (BK.PESC.00.HNN- BK.PESC.00.HHN)
Median: 0.004
L1 norm: 0.031

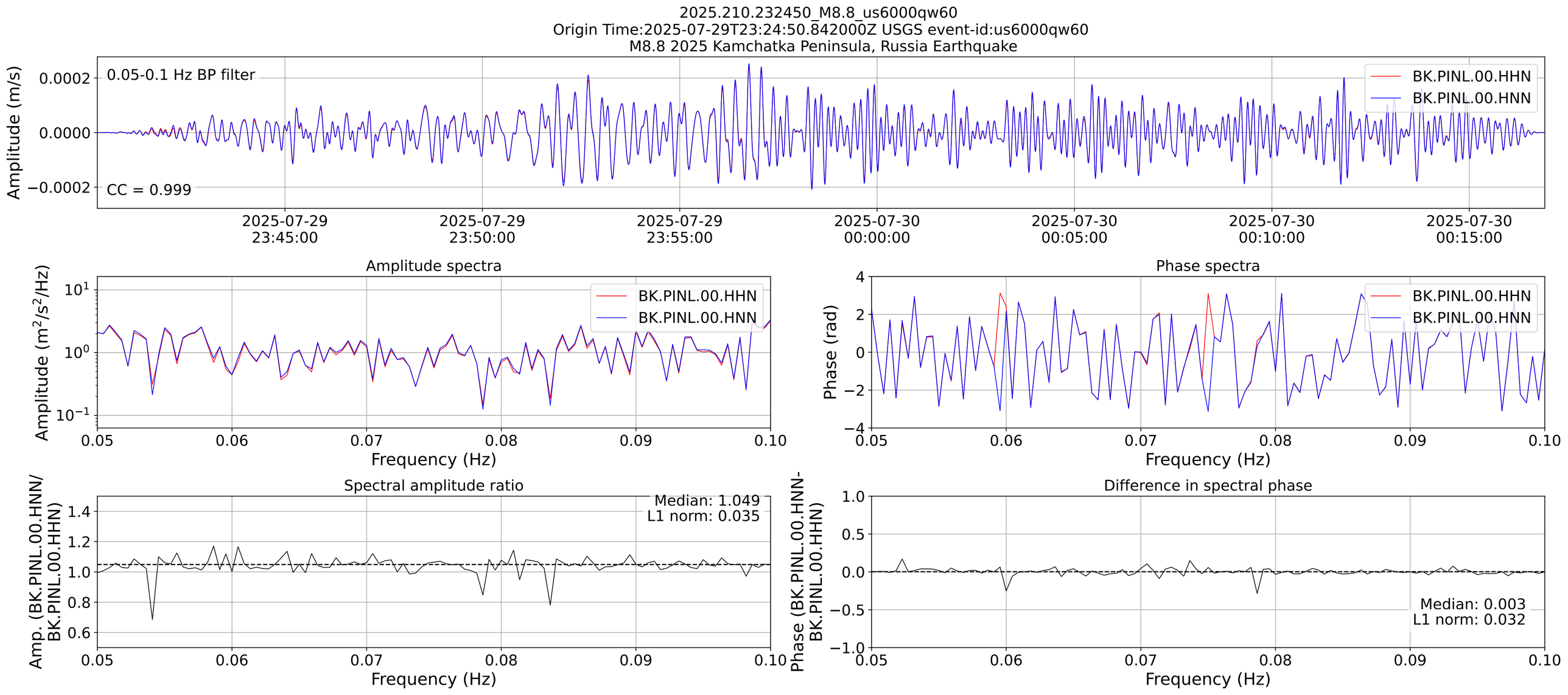

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PESC.00.HHZ
BK.PESC.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNZ/ BK.PESC.00.HHZ)
Median: 0.985
L1 norm: 0.030
Difference in spectral phase
Phase (BK.PESC.00.HNZ- BK.PESC.00.HHZ)
Median: -0.010
L1 norm: 0.030

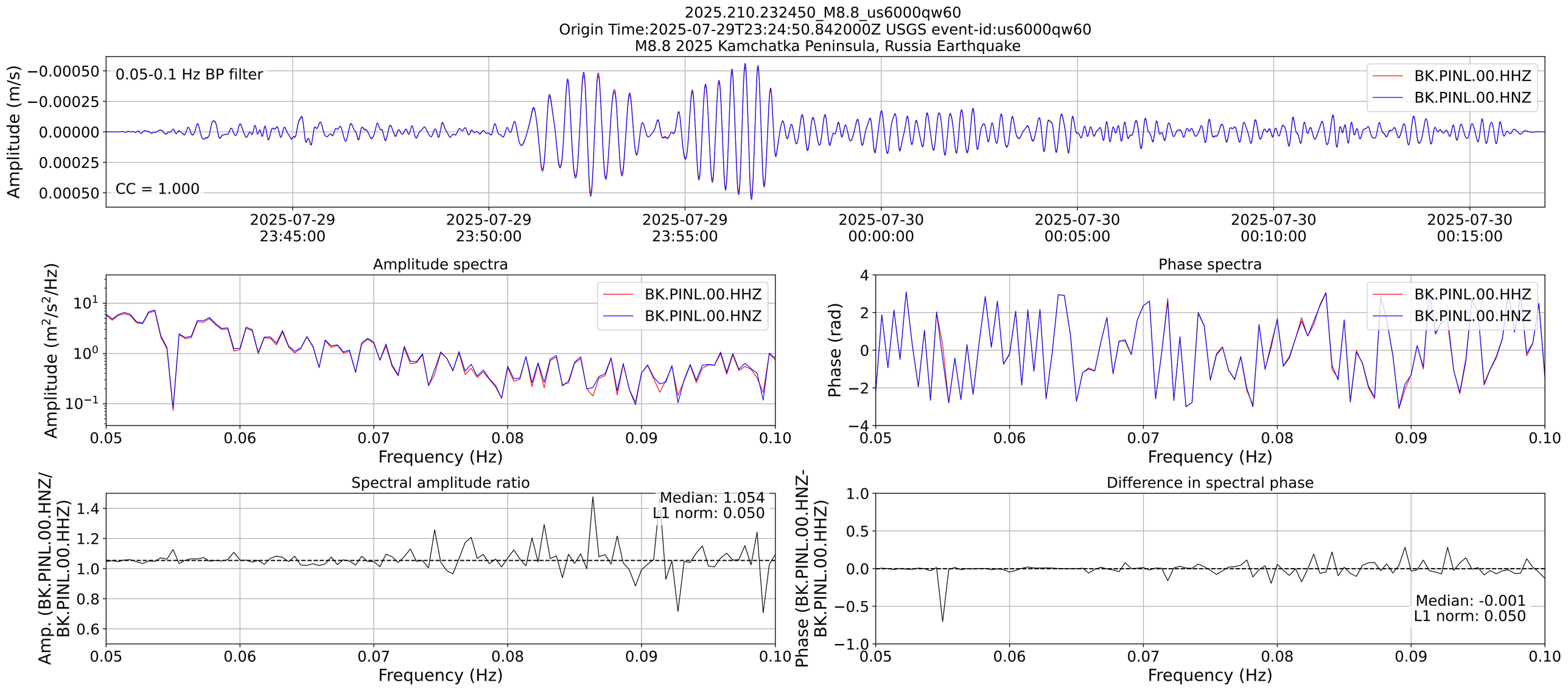

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PETL.00.HHE
BK.PETL.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNE/ BK.PETL.00.HHE)
Median: 1.005
L1 norm: 0.017
Difference in spectral phase
Phase (BK.PETL.00.HNE- BK.PETL.00.HHE)
Median: 0.001
L1 norm: 0.015

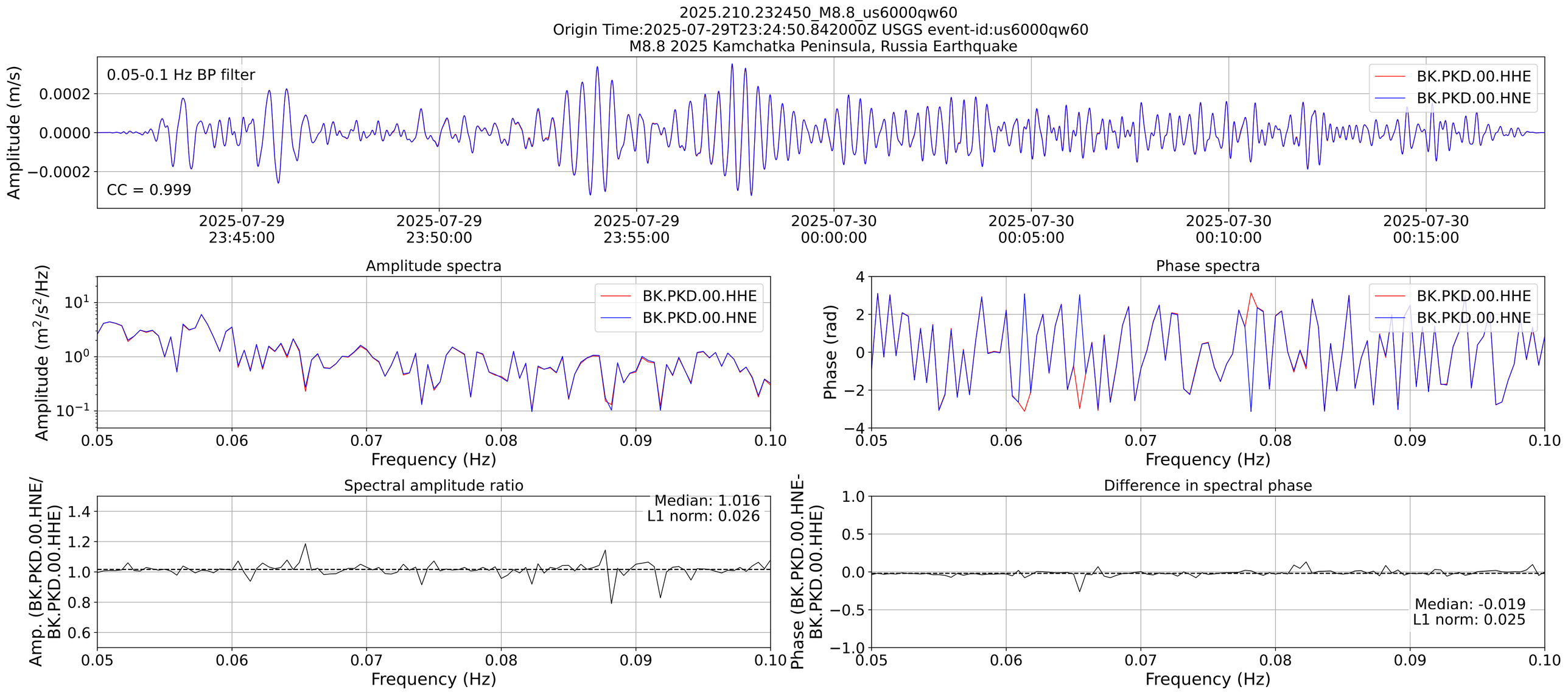

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PETL.00.HHN
BK.PETL.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNN/ BK.PETL.00.HHN)
Median: 1.007
L1 norm: 0.017
Difference in spectral phase
Phase (BK.PETL.00.HNN- BK.PETL.00.HHN)
Median: 0.001
L1 norm: 0.014

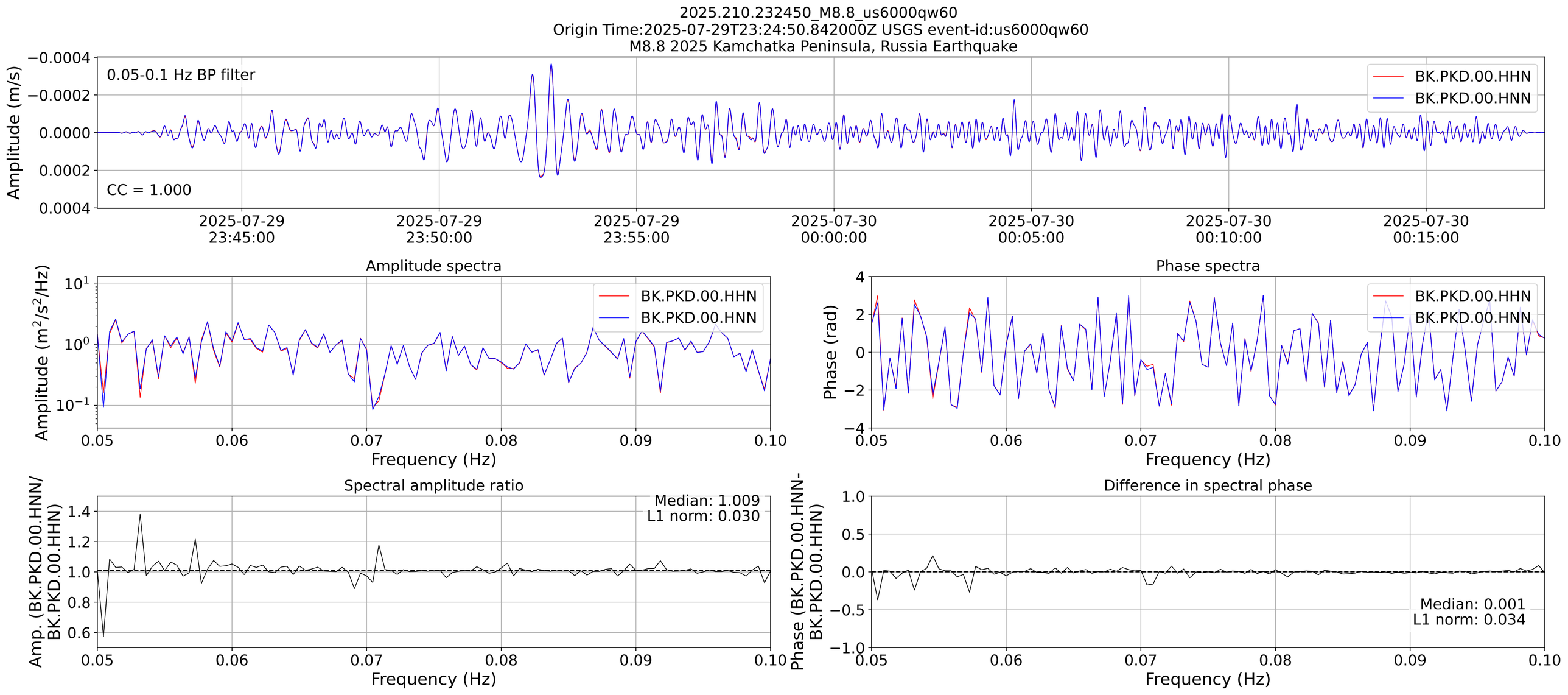

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.PETL.00.HHZ
BK.PETL.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNZ/ BK.PETL.00.HHZ)
Median: 1.004
L1 norm: 0.054
Difference in spectral phase
Phase (BK.PETL.00.HNZ- BK.PETL.00.HHZ)
Median: -0.003
L1 norm: 0.054

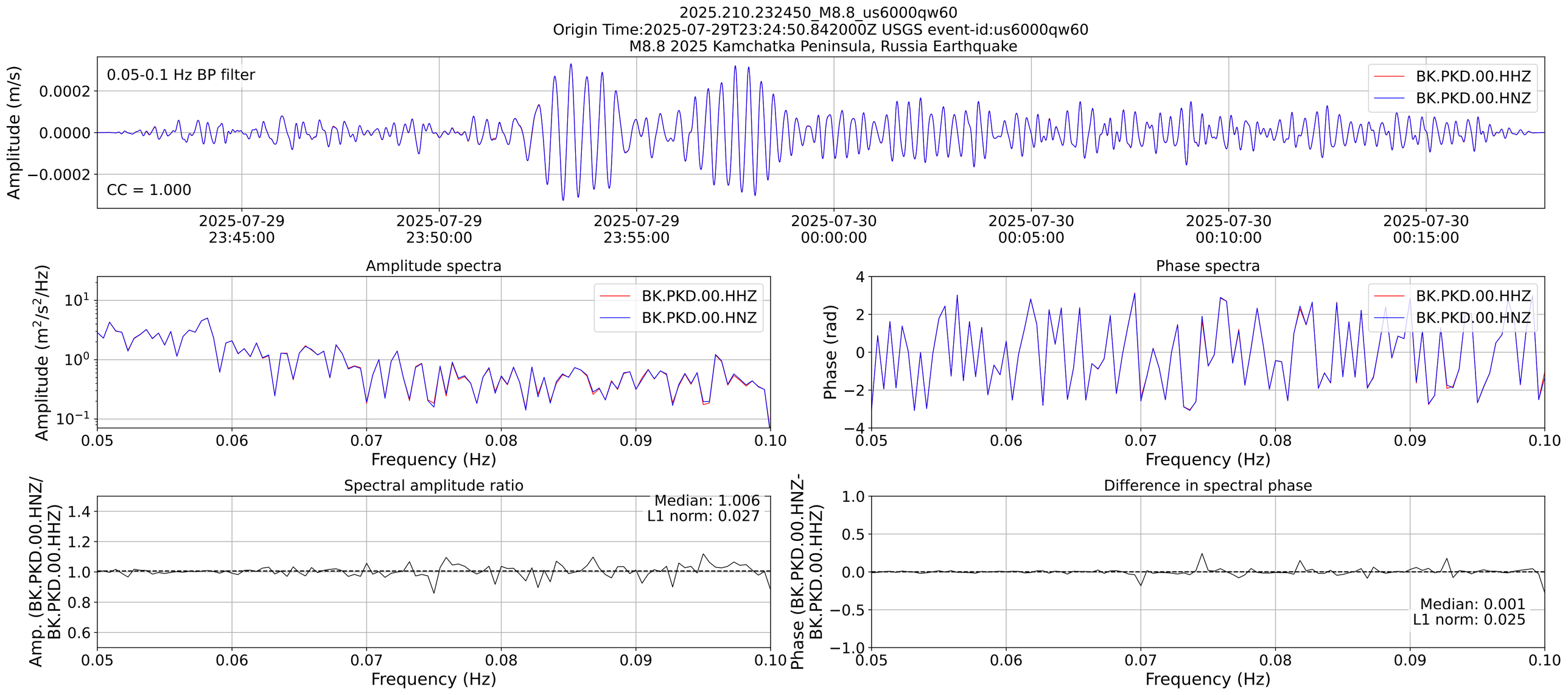

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PINL.00.HHE
BK.PINL.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNE/ BK.PINL.00.HHE)
Median: 1.043
L1 norm: 0.029
Difference in spectral phase
Phase (BK.PINL.00.HNE- BK.PINL.00.HHE)
Median: 0.001
L1 norm: 0.029

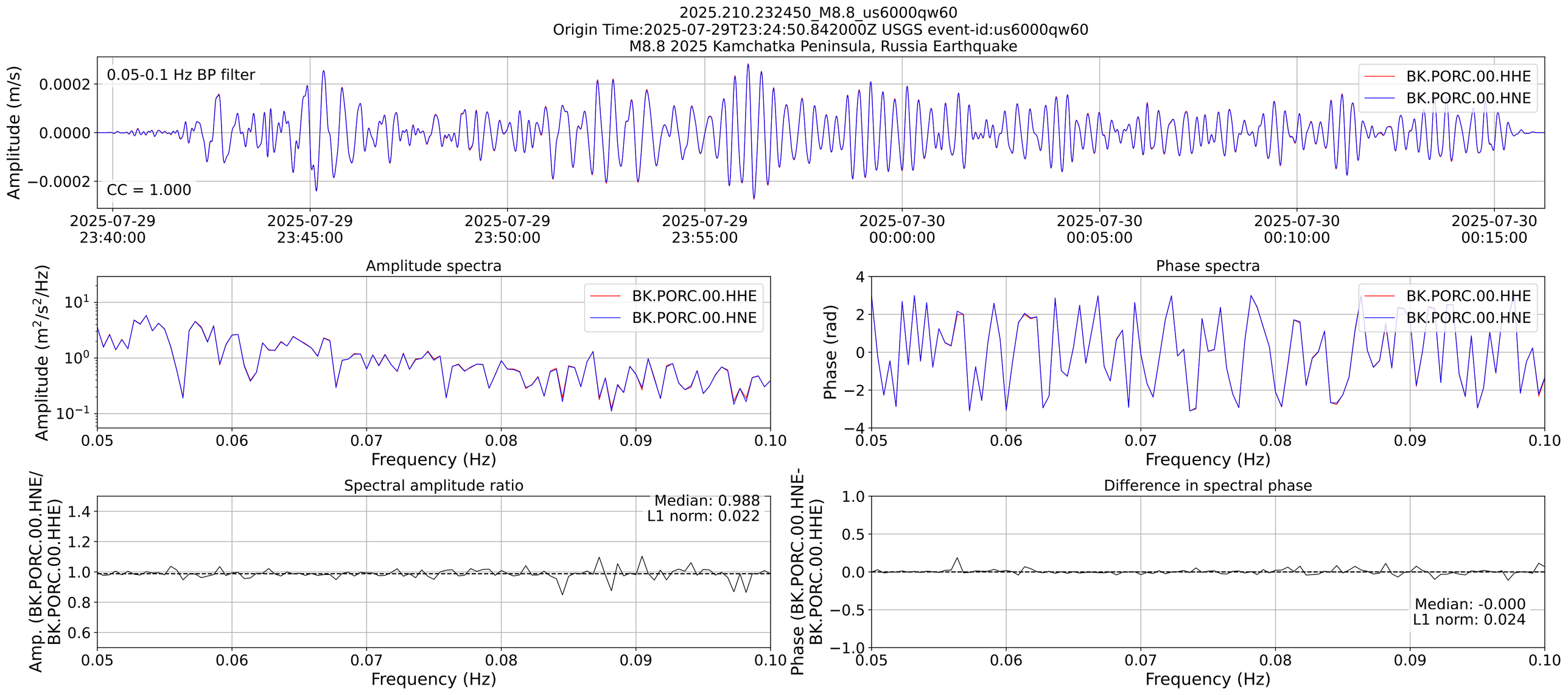

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PINL.00.HHN
BK.PINL.00.HHN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNN/ BK.PINL.00.HHN)
Median: 1.049
L1 norm: 0.035
Frequency (Hz)
Difference in spectral phase
Phase (BK.PINL.00.HNN- BK.PINL.00.HHN)
Median: 0.003
L1 norm: 0.032
Frequency (Hz)

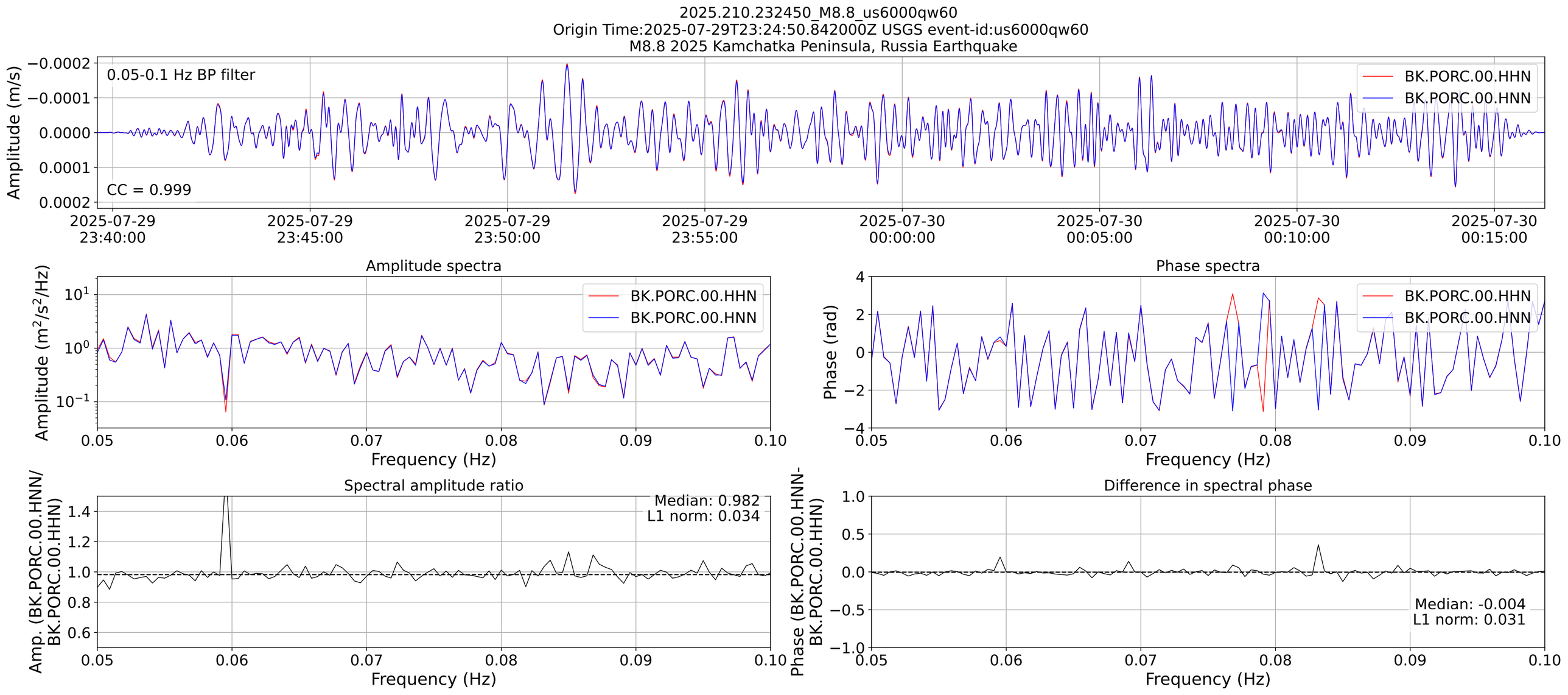

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PINL.00.HHZ
BK.PINL.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNZ/ BK.PINL.00.HHZ)
Median: 1.054
L1 norm: 0.050
Difference in spectral phase
Phase (BK.PINL.00.HNZ- BK.PINL.00.HHZ)
Median: -0.001
L1 norm: 0.050

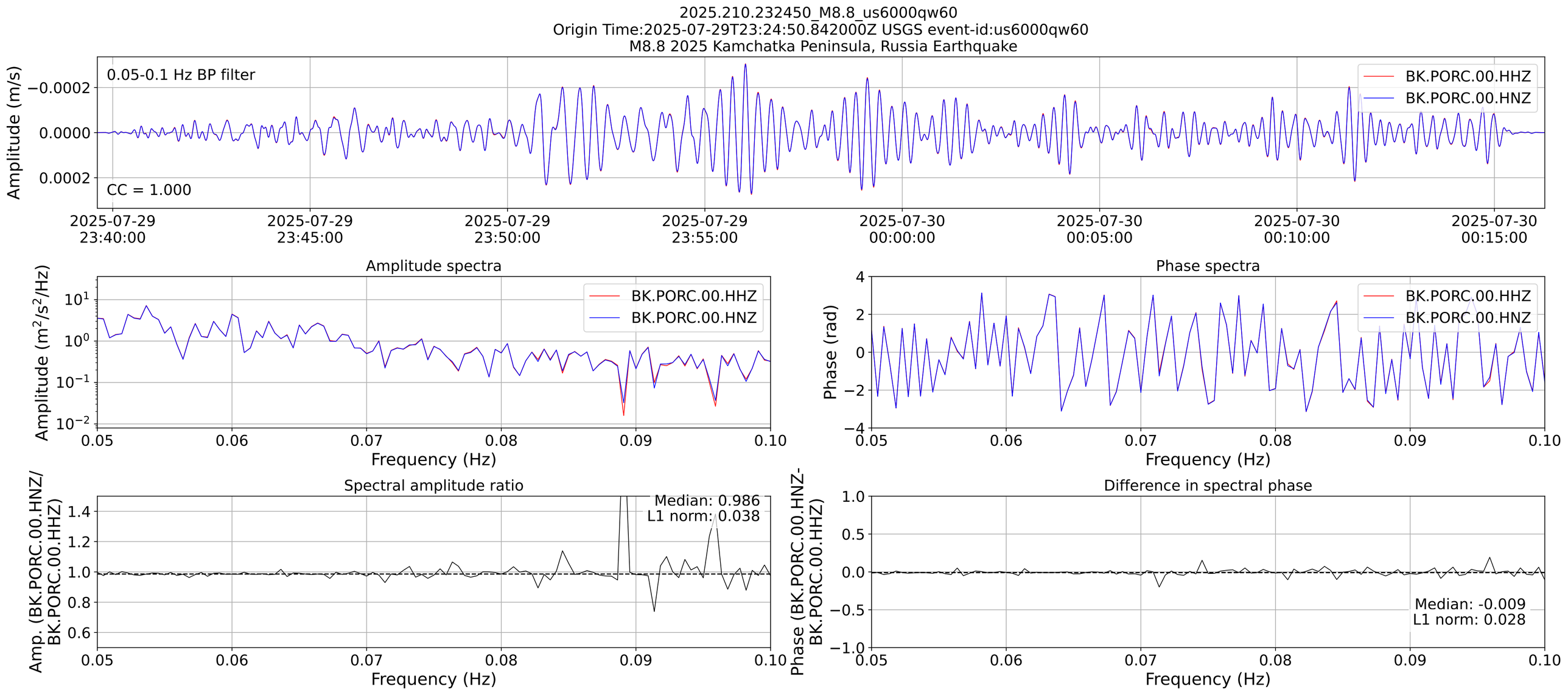

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PKD.00.HHE
BK.PKD.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PKD.00.HNE/ BK.PKD.00.HHE)
Median: 1.016
L1 norm: 0.026
Difference in spectral phase
Phase (BK.PKD.00.HNE- BK.PKD.00.HHE)
Median: -0.019
L1 norm: 0.025

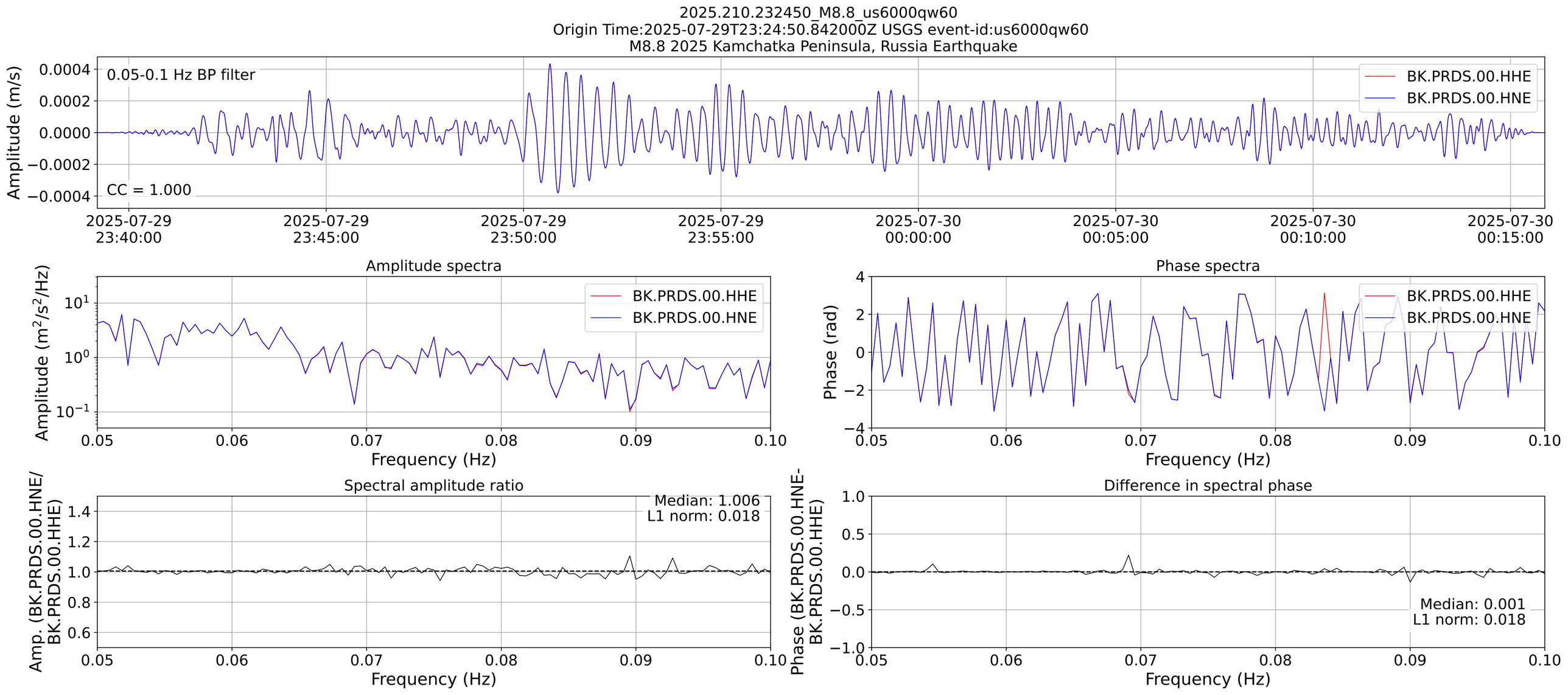

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PKD.00.HHN
BK.PKD.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PKD.00.HNN/ BK.PKD.00.HHN)
Median: 1.009
L1 norm: 0.030
Difference in spectral phase
Phase (BK.PKD.00.HNN- BK.PKD.00.HHN)
Median: 0.001
L1 norm: 0.034

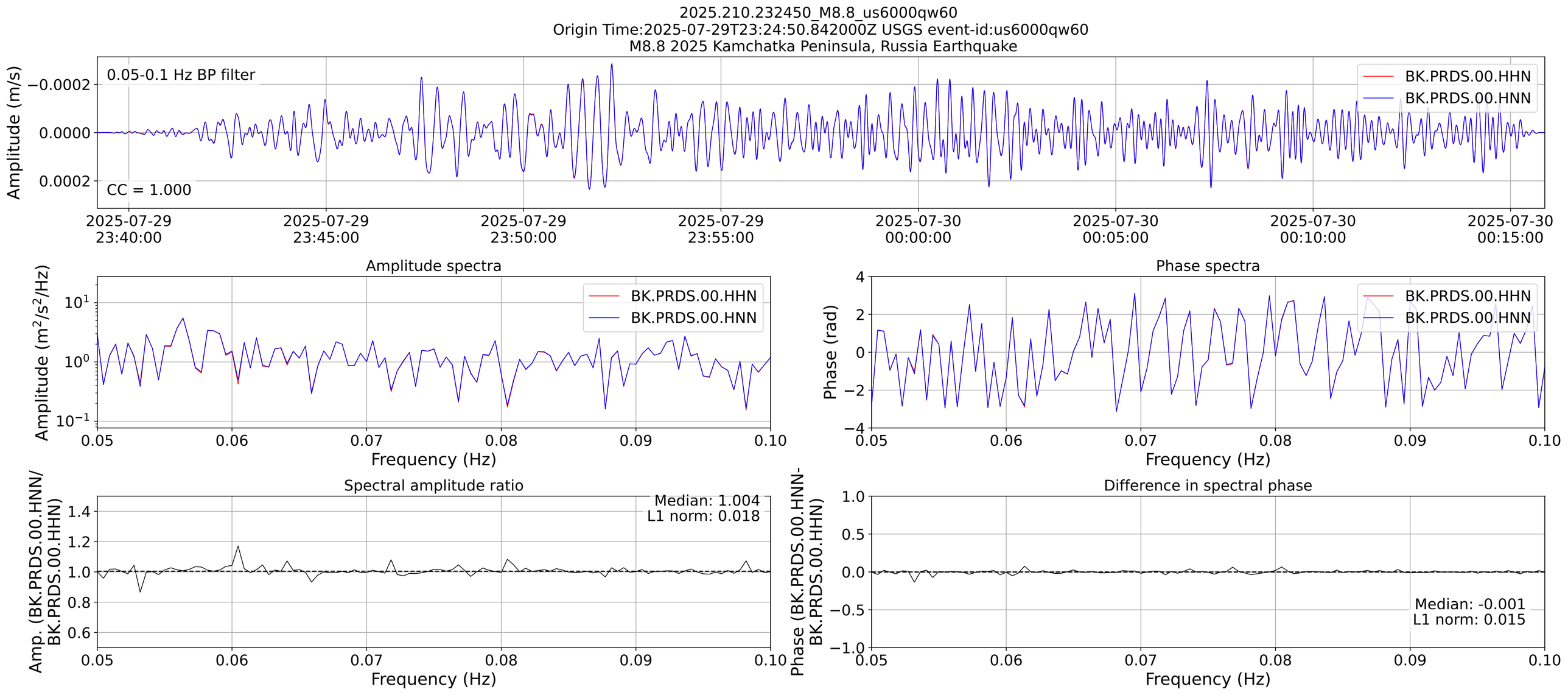

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PKD.00.HHZ
BK.PKD.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PKD.00.HNZ/ BK.PKD.00.HHZ)
Median: 1.006
L1 norm: 0.027
Difference in spectral phase
Phase (BK.PKD.00.HNZ- BK.PKD.00.HHZ)
Median: 0.001
L1 norm: 0.025

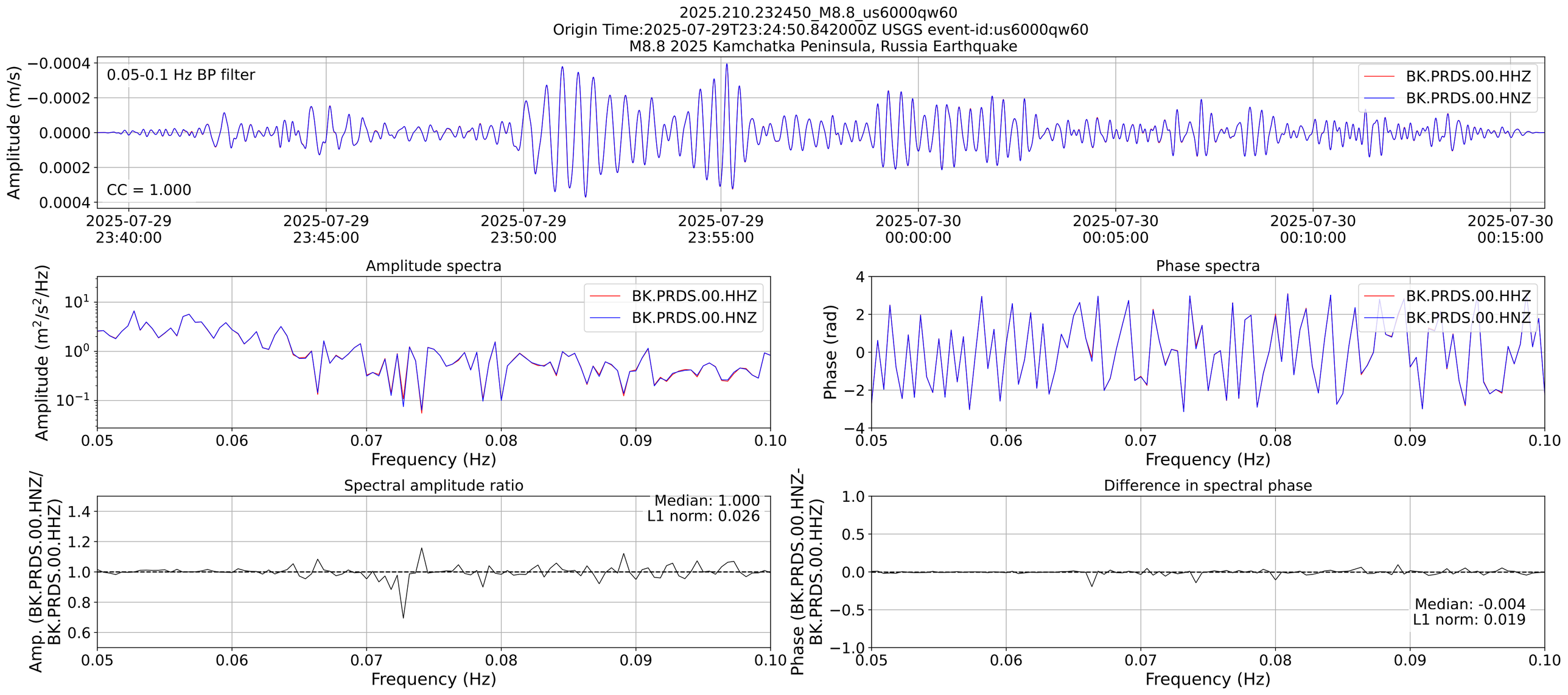

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PORC.00.HHE
BK.PORC.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORC.00.HNE/ BK.PORC.00.HHE)
Median: 0.988
L1 norm: 0.022
Difference in spectral phase
Phase (BK.PORC.00.HNE- BK.PORC.00.HHE)
Median: -0.000
L1 norm: 0.024

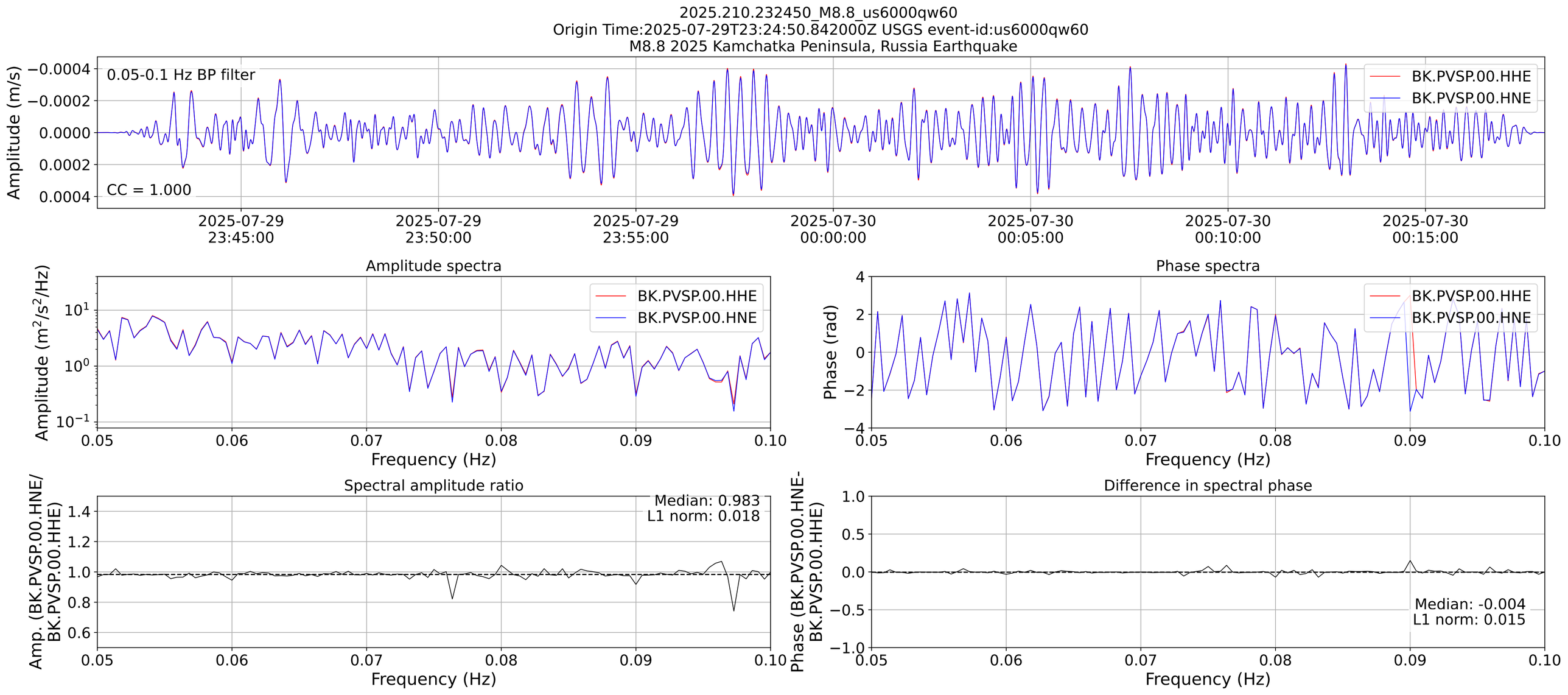

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PORC.00.HHN
BK.PORC.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORC.00.HNN/ BK.PORC.00.HHN)
Median: 0.982
L1 norm: 0.034
Difference in spectral phase
Phase (BK.PORC.00.HNN- BK.PORC.00.HHN)
Median: -0.004
L1 norm: 0.031

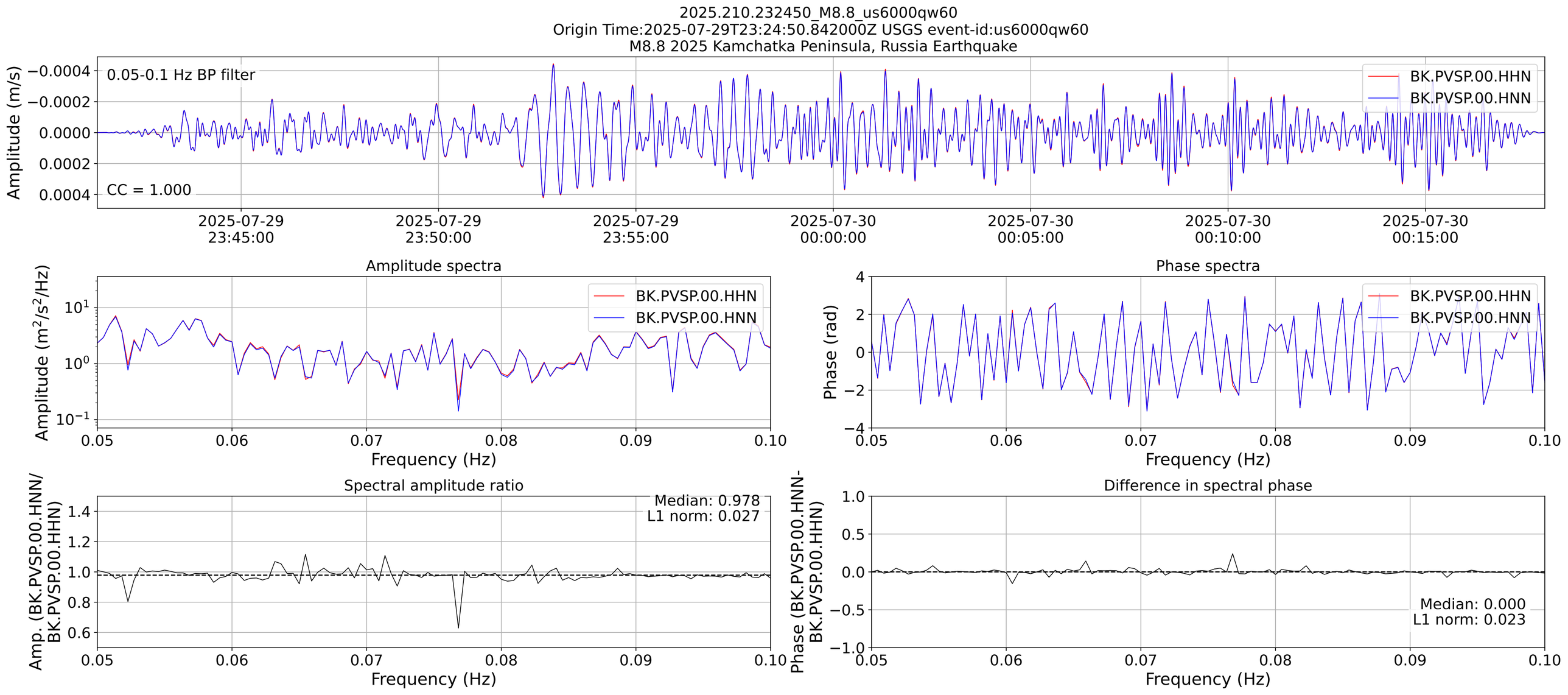

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PORC.00.HHZ
BK.PORC.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORC.00.HNZ/ BK.PORC.00.HHZ)
Median: 0.986
L1 norm: 0.038
Difference in spectral phase
Phase (BK.PORC.00.HNZ- BK.PORC.00.HHZ)
Median: -0.009
L1 norm: 0.028

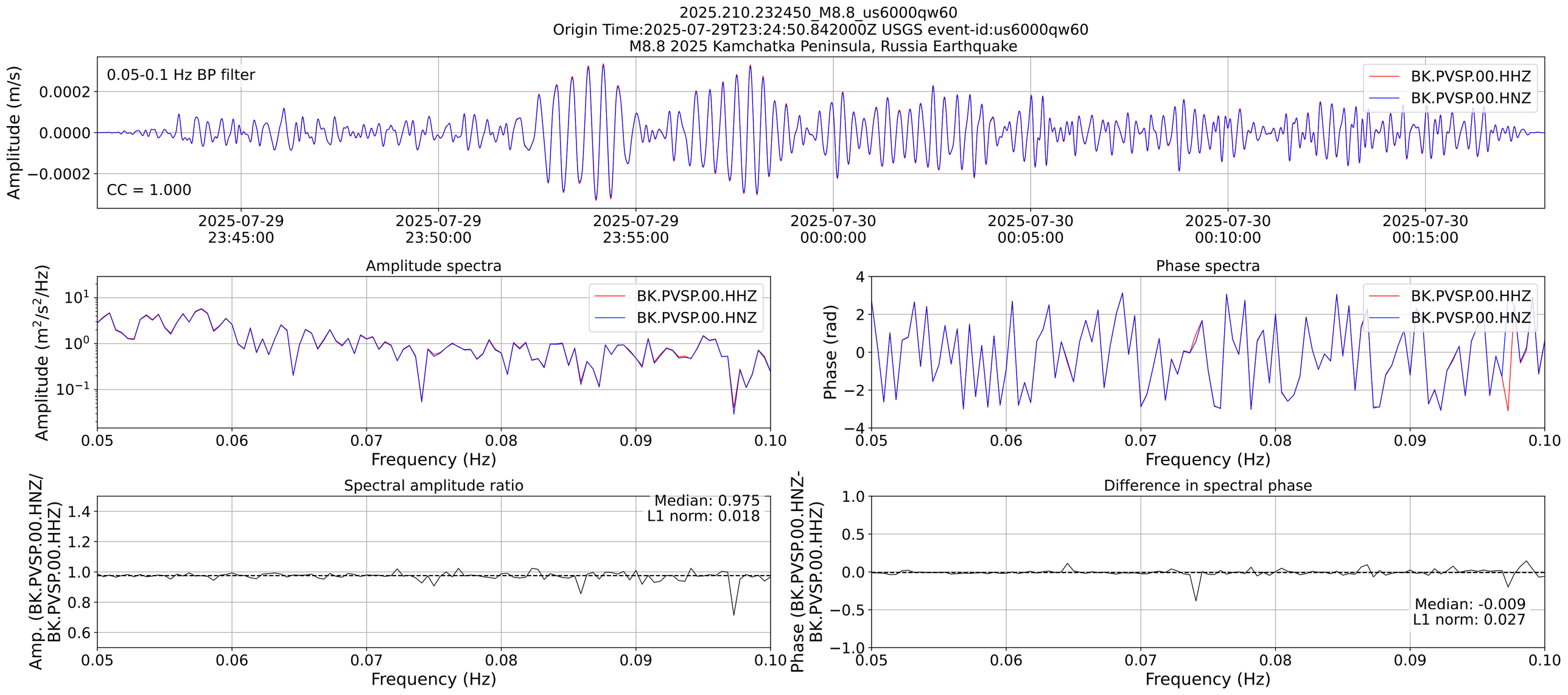

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PRDS.00.HHE
BK.PRDS.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNE/ BK.PRDS.00.HHE)
Median: 1.006
L1 norm: 0.018
Difference in spectral phase
Phase (BK.PRDS.00.HNE- BK.PRDS.00.HHE)
Median: 0.001
L1 norm: 0.018

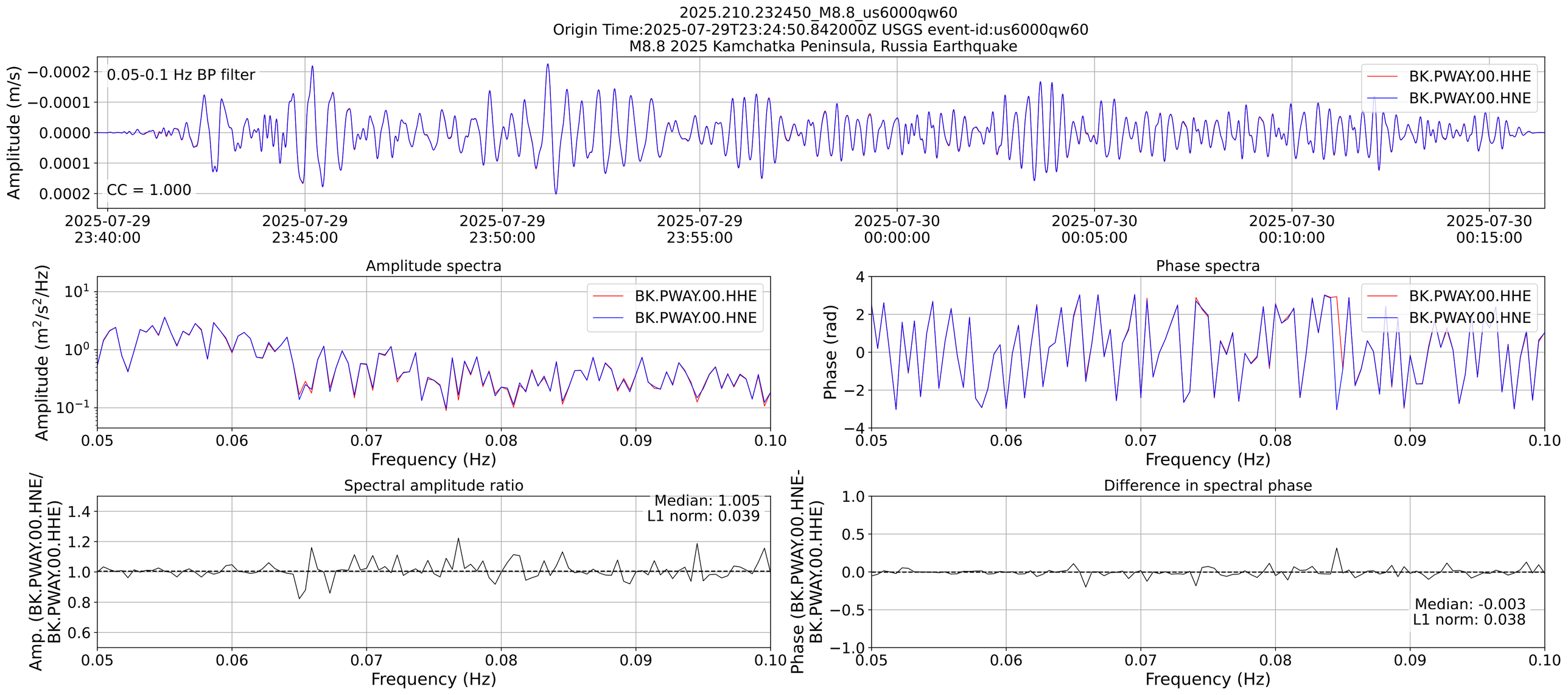

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PRDS.00.HHN
BK.PRDS.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNN/ BK.PRDS.00.HHN)
Median: 1.004
L1 norm: 0.018
Difference in spectral phase
Phase (BK.PRDS.00.HNN- BK.PRDS.00.HHN)
Median: -0.001
L1 norm: 0.015

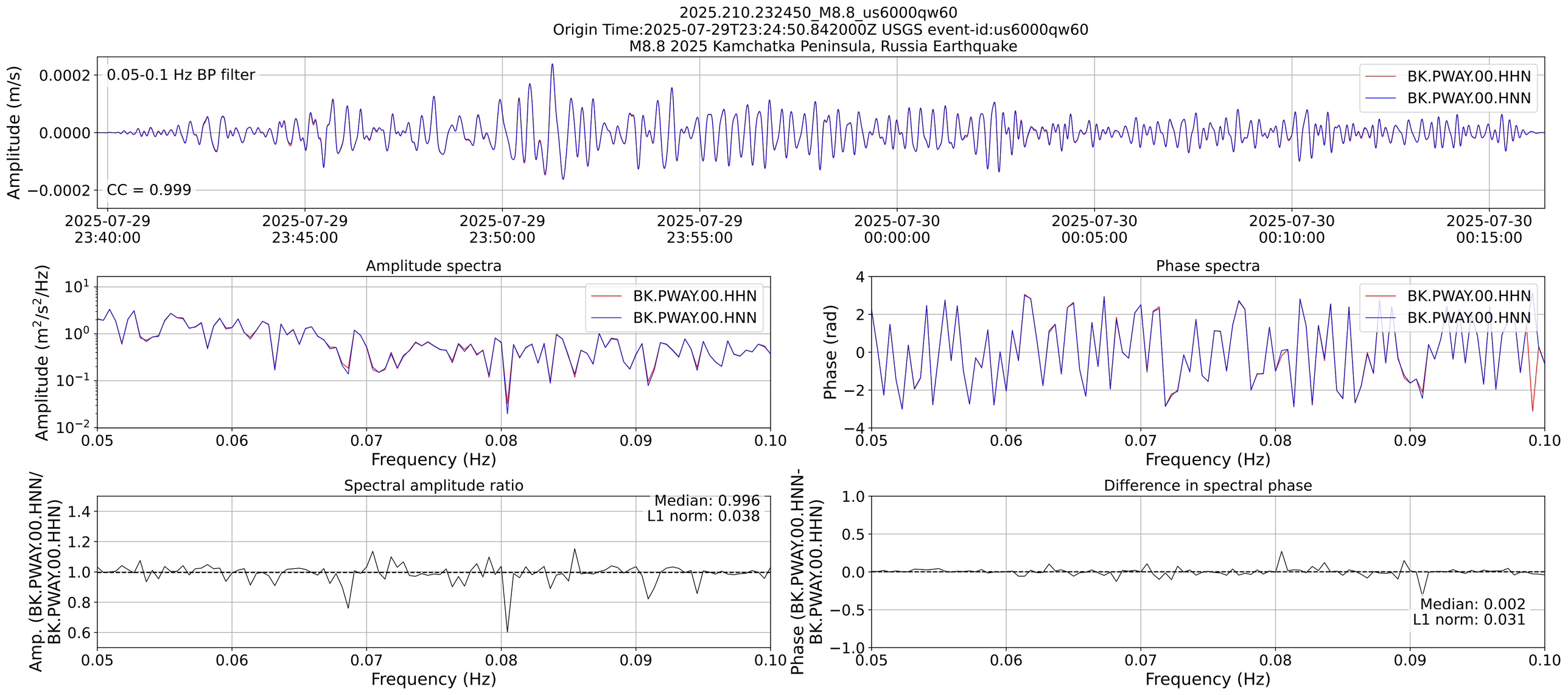

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PRDS.00.HHZ
BK.PRDS.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNZ/ BK.PRDS.00.HHZ)
Median: 1.000
L1 norm: 0.026
Difference in spectral phase
Phase (BK.PRDS.00.HNZ- BK.PRDS.00.HHZ)
Median: -0.004
L1 norm: 0.019

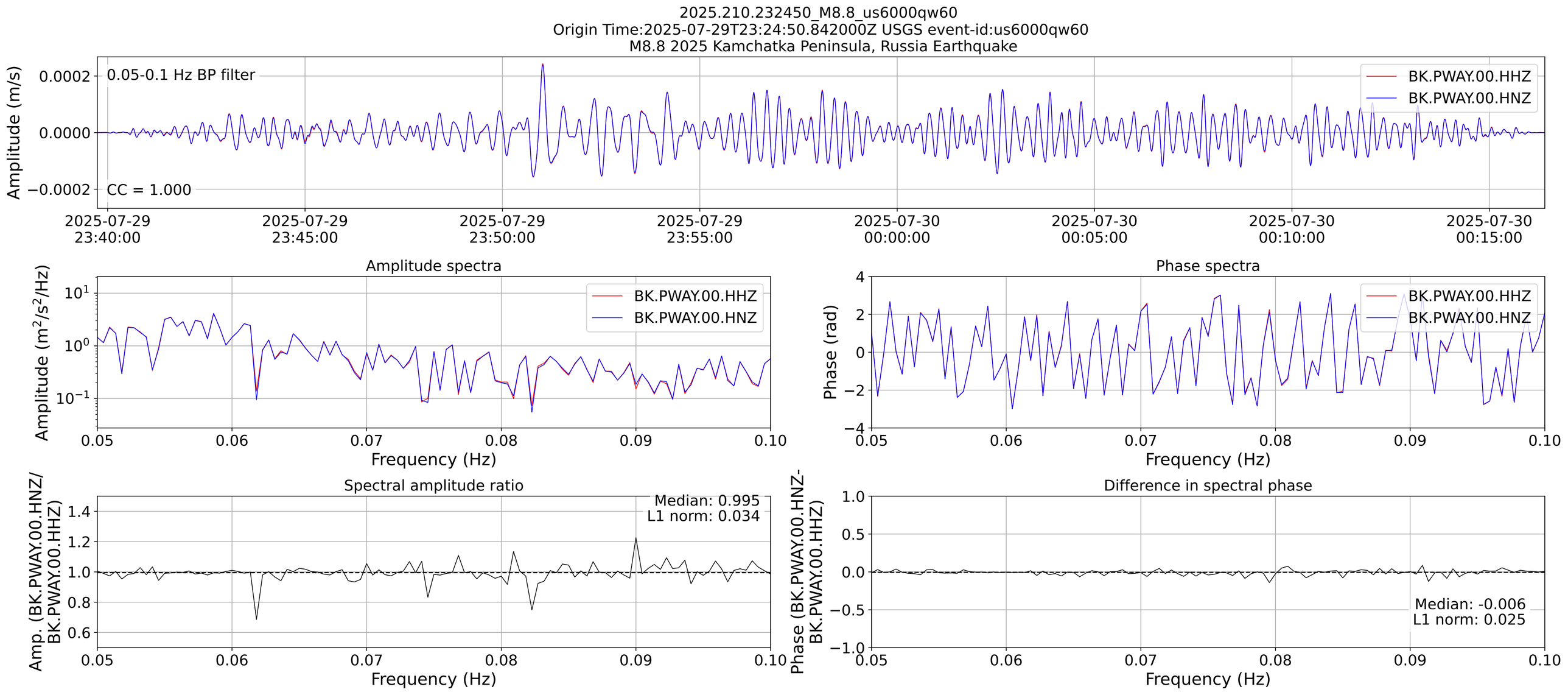

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PVSP.00.HHE
BK.PVSP.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNE/ BK.PVSP.00.HHE)
Median: 0.983
L1 norm: 0.018
Difference in spectral phase
Phase (BK.PVSP.00.HNE- BK.PVSP.00.HHE)
Median: -0.004
L1 norm: 0.015

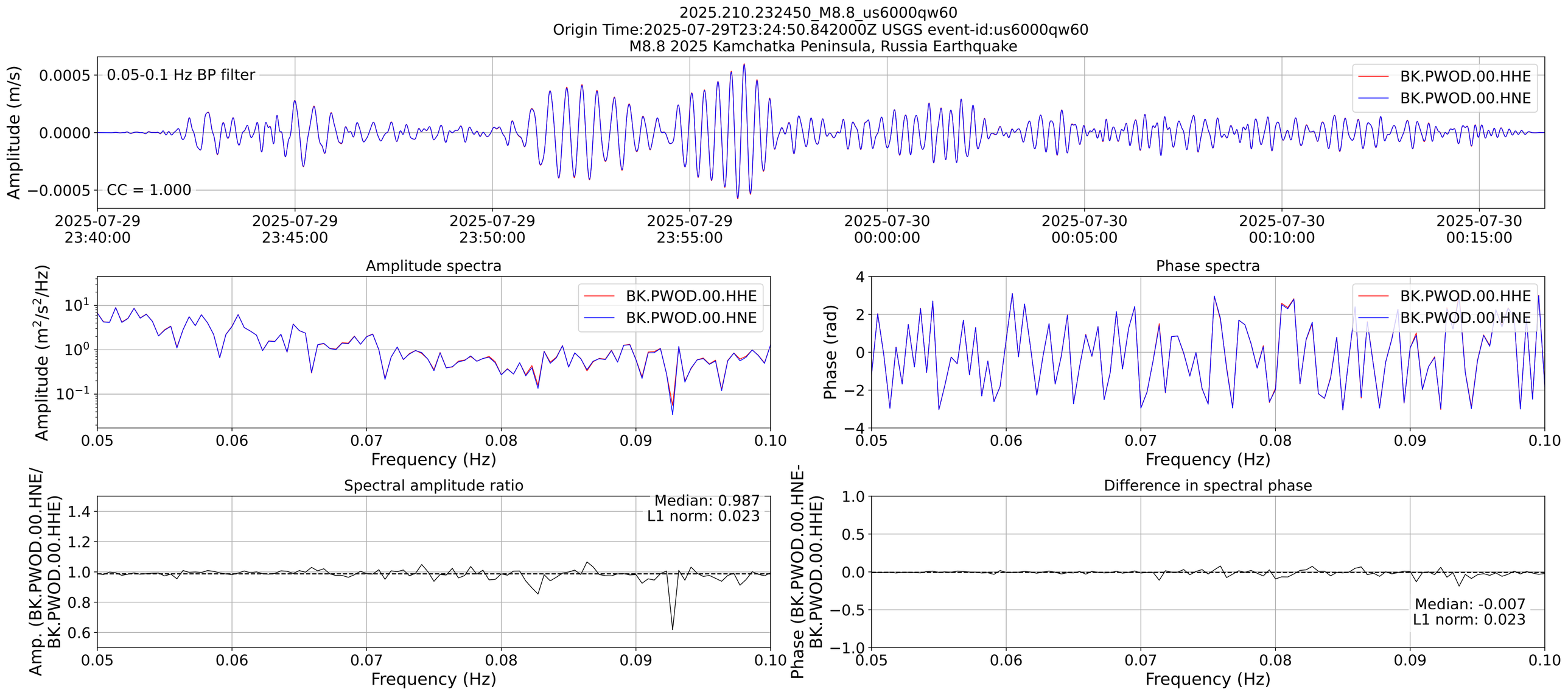

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PVSP.00.HHN
BK.PVSP.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNN/ BK.PVSP.00.HHN)
Median: 0.978
L1 norm: 0.027
Difference in spectral phase
Phase (BK.PVSP.00.HNN- BK.PVSP.00.HHN)
Median: 0.000
L1 norm: 0.023

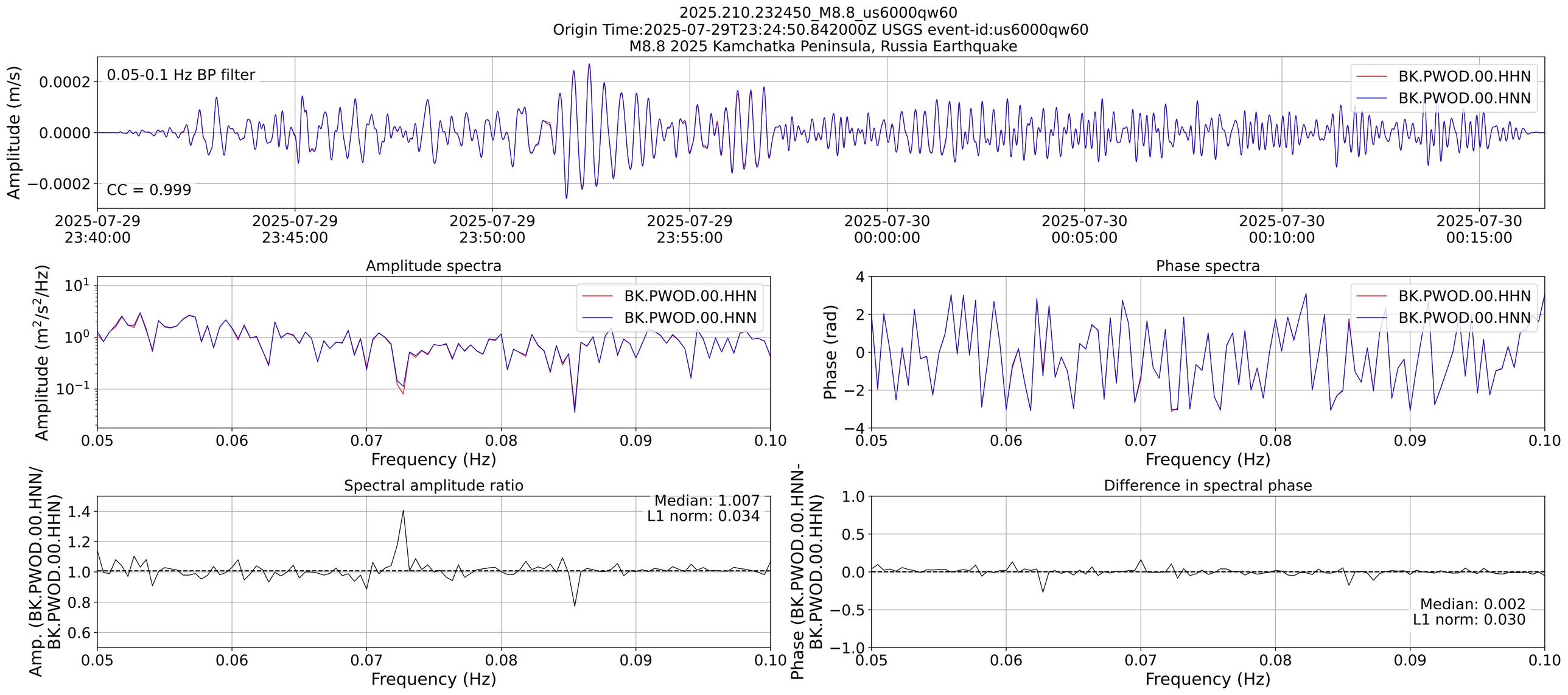

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PVSP.00.HHZ
BK.PVSP.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNZ/ BK.PVSP.00.HHZ)
Median: 0.975
L1 norm: 0.018
Difference in spectral phase
Phase (BK.PVSP.00.HNZ- BK.PVSP.00.HHZ)
Median: -0.009
L1 norm: 0.027

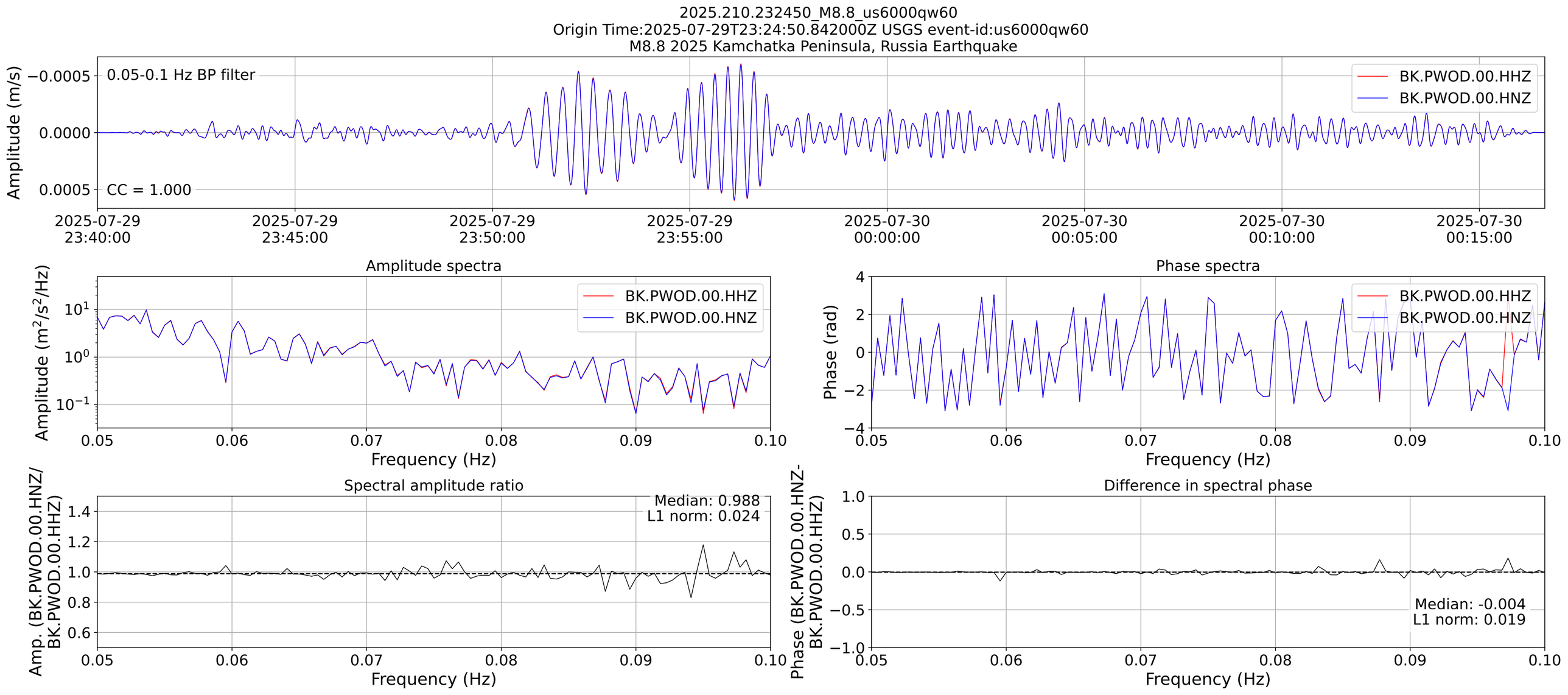

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PWAY.00.HHE
BK.PWAY.00.HNE
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWAY.00.HNE/ BK.PWAY.00.HHE)
Median: 1.005
L1 norm: 0.039
Difference in spectral phase
Phase (BK.PWAY.00.HNE- BK.PWAY.00.HHE)
Median: -0.003
L1 norm: 0.038

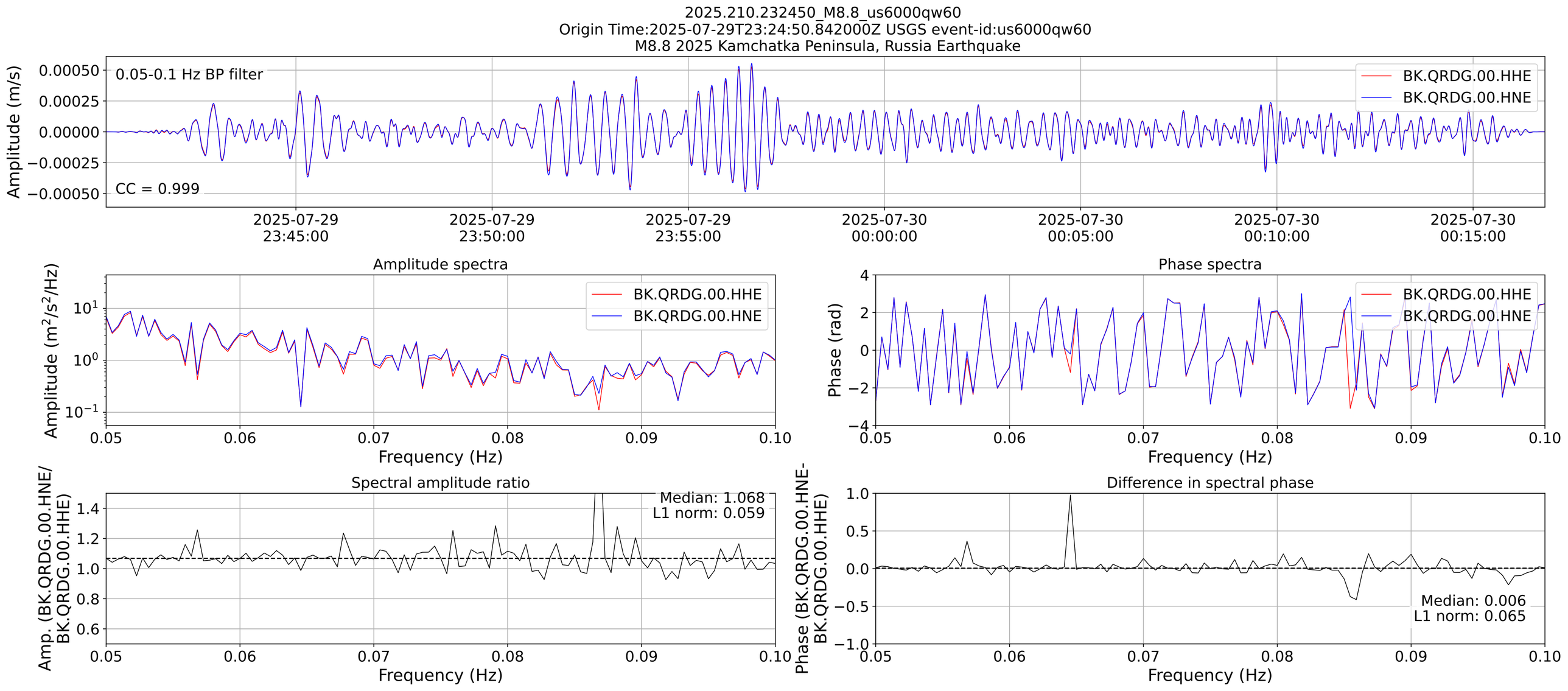

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PWAY.00.HHN
BK.PWAY.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWAY.00.HNN/ BK.PWAY.00.HHN)
Median: 0.996
L1 norm: 0.038
Difference in spectral phase
Phase (BK.PWAY.00.HNN- BK.PWAY.00.HHN)
Median: 0.002
L1 norm: 0.031

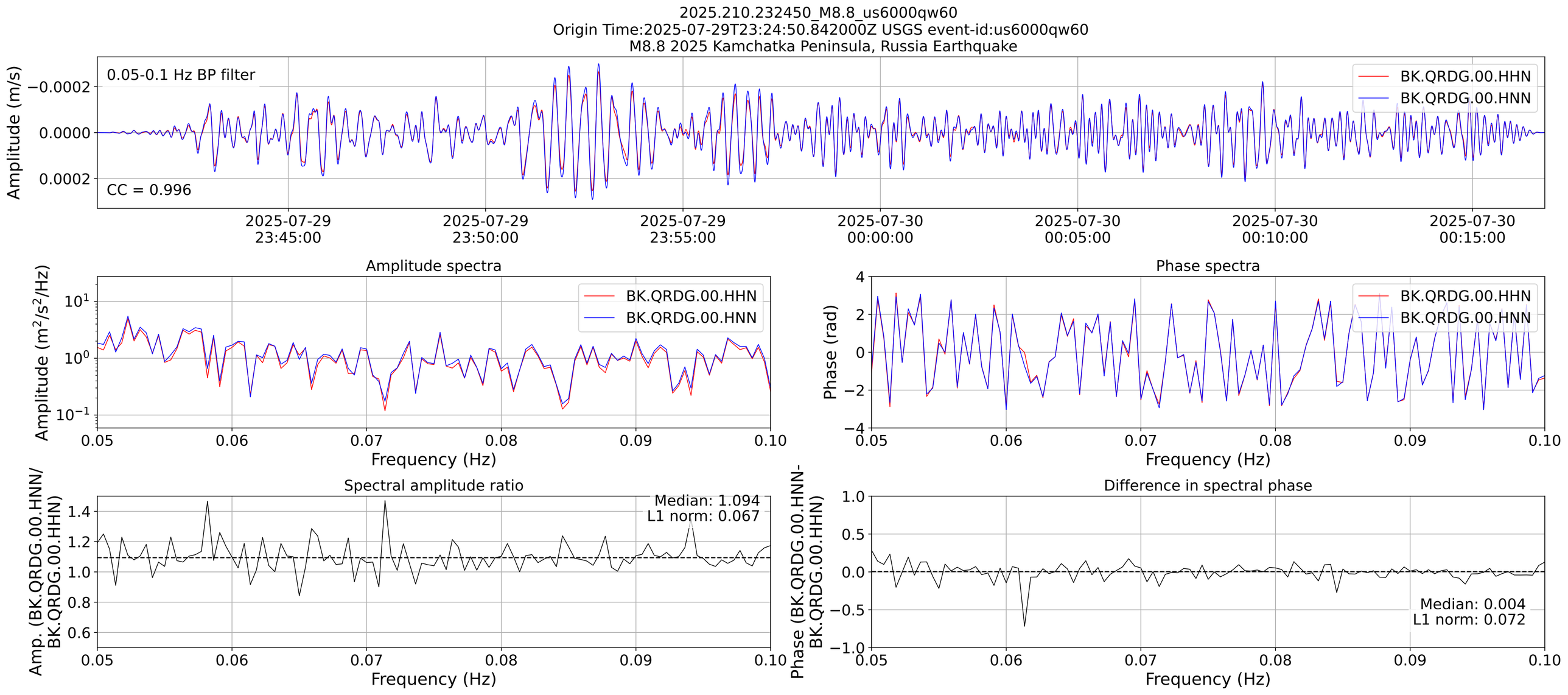

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PWAY.00.HHZ
BK.PWAY.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWAY.00.HNZ/ BK.PWAY.00.HHZ)
Median: 0.995
L1 norm: 0.034
Difference in spectral phase
Phase (BK.PWAY.00.HNZ- BK.PWAY.00.HHZ)
Median: -0.006
L1 norm: 0.025

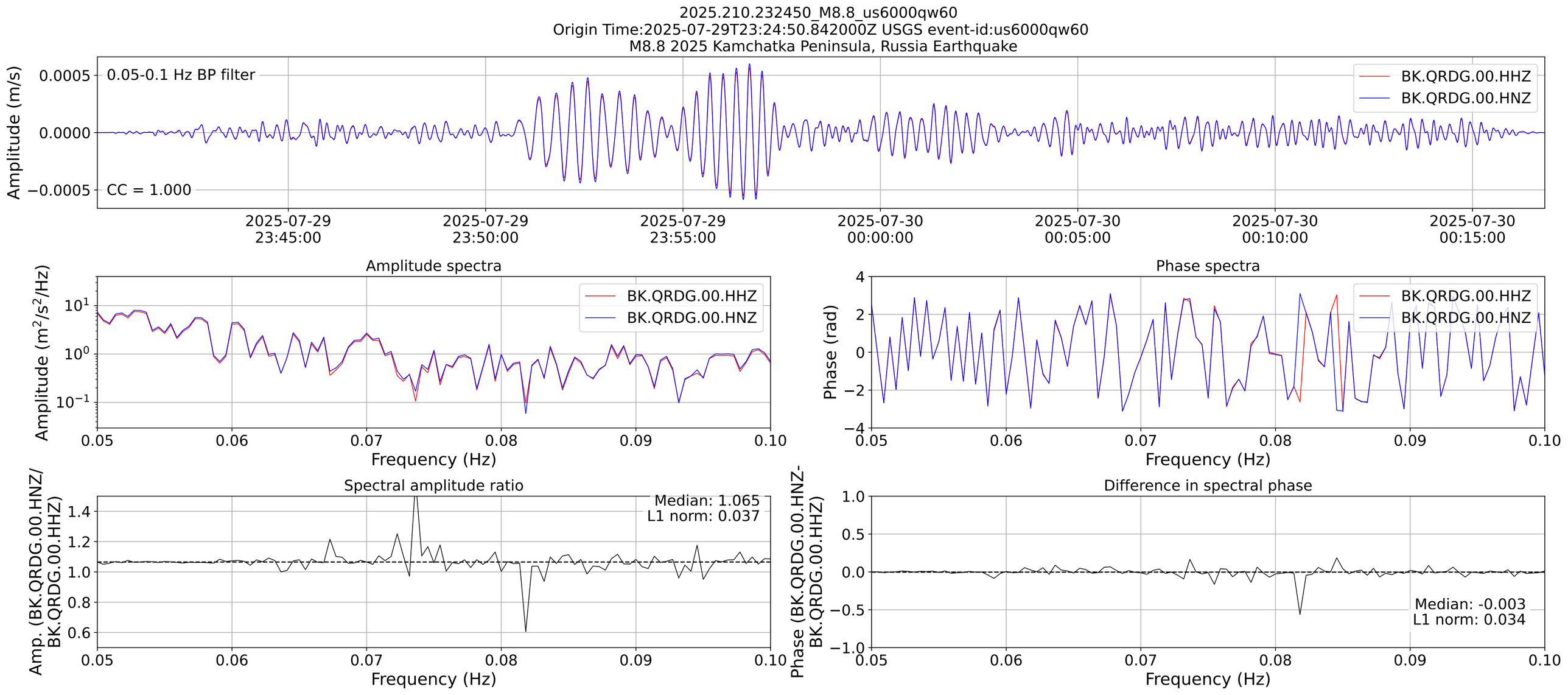

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PWOD.00.HHE
BK.PWOD.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNE/ BK.PWOD.00.HHE)
Median: 0.987
L1 norm: 0.023
Difference in spectral phase
Phase (BK.PWOD.00.HNE- BK.PWOD.00.HHE)
Median: -0.007
L1 norm: 0.023

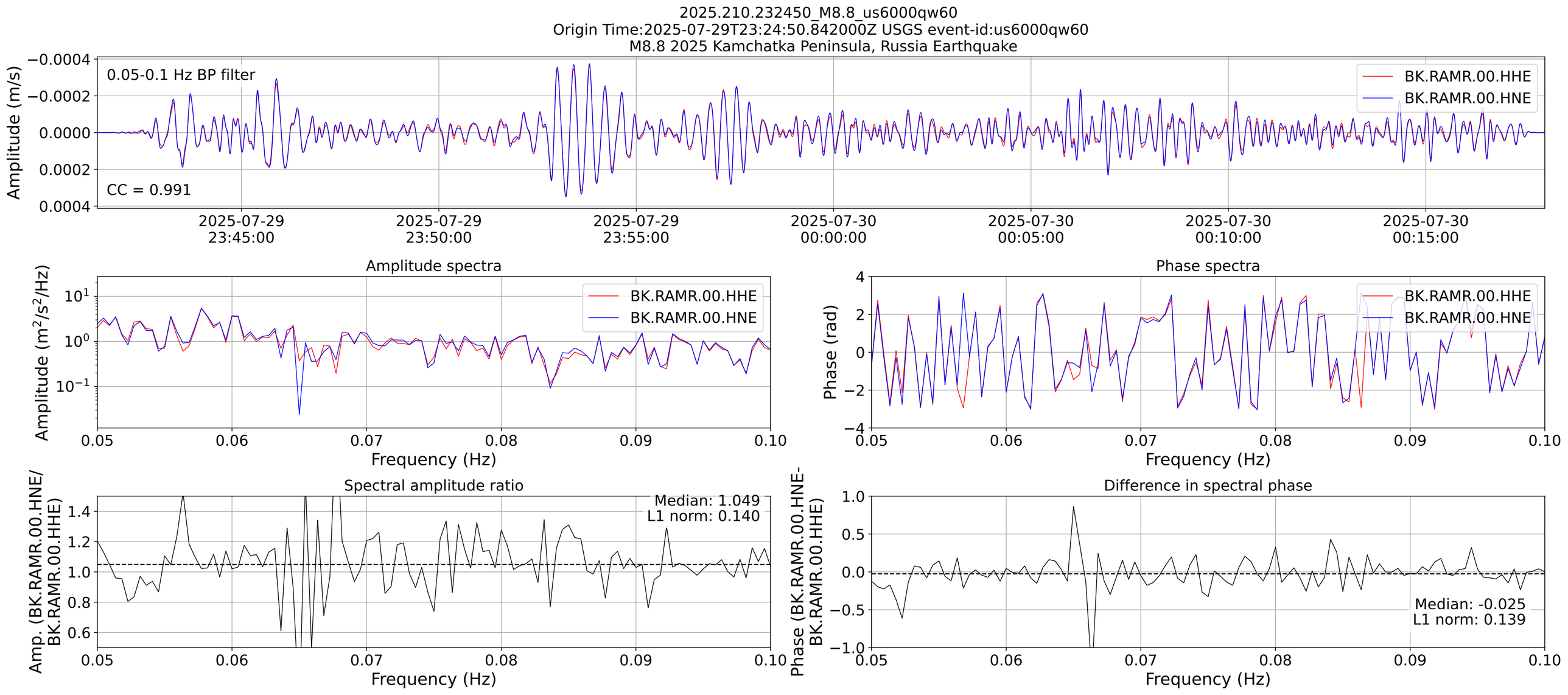

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.PWOD.00.HHN
BK.PWOD.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNN/ BK.PWOD.00.HHN)
Median: 1.007
L1 norm: 0.034
Difference in spectral phase
Phase (BK.PWOD.00.HNN- BK.PWOD.00.HHN)
Median: 0.002
L1 norm: 0.030

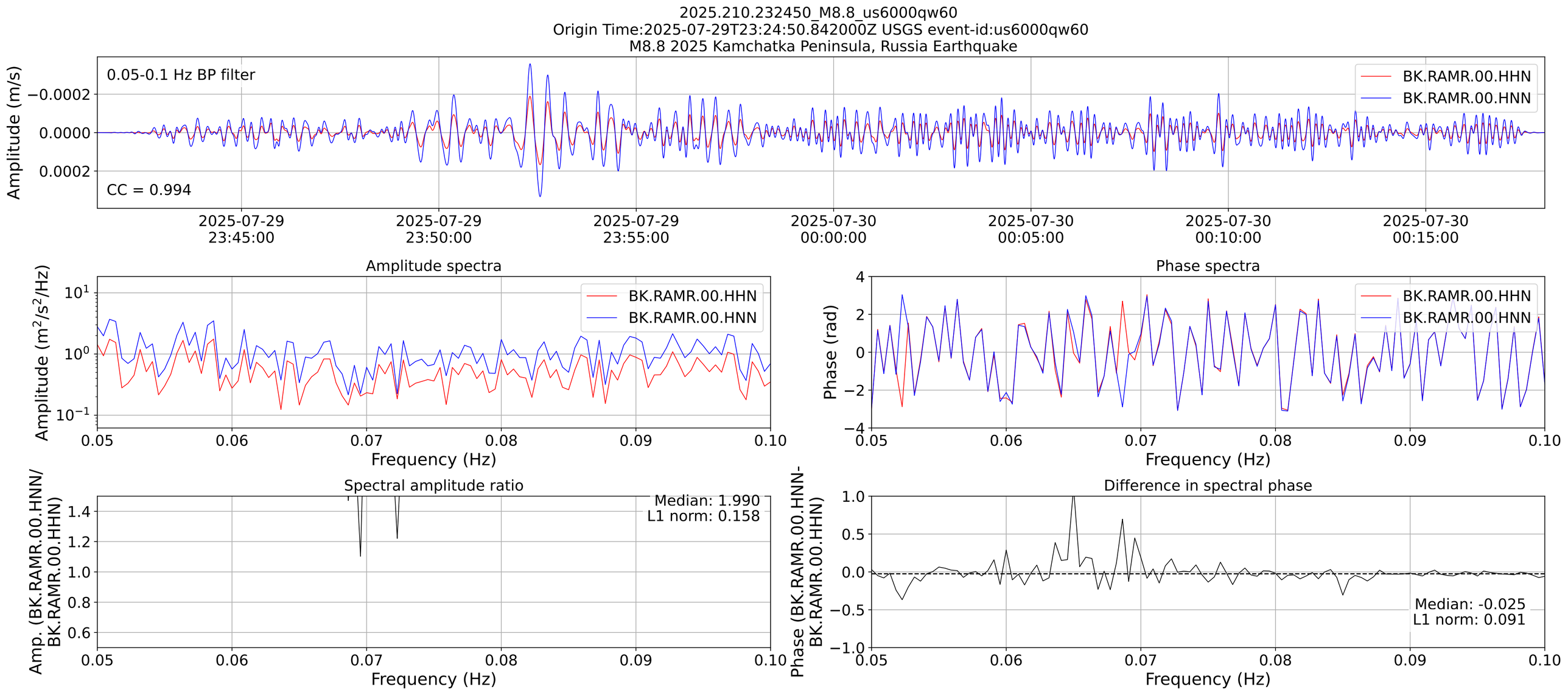

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.PWOD.00.HHZ
BK.PWOD.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNZ/ BK.PWOD.00.HHZ)
Median: 0.988
L1 norm: 0.024
Difference in spectral phase
Phase (BK.PWOD.00.HNZ-BK.PWOD.00.HHZ)
Median: -0.004
L1 norm: 0.019

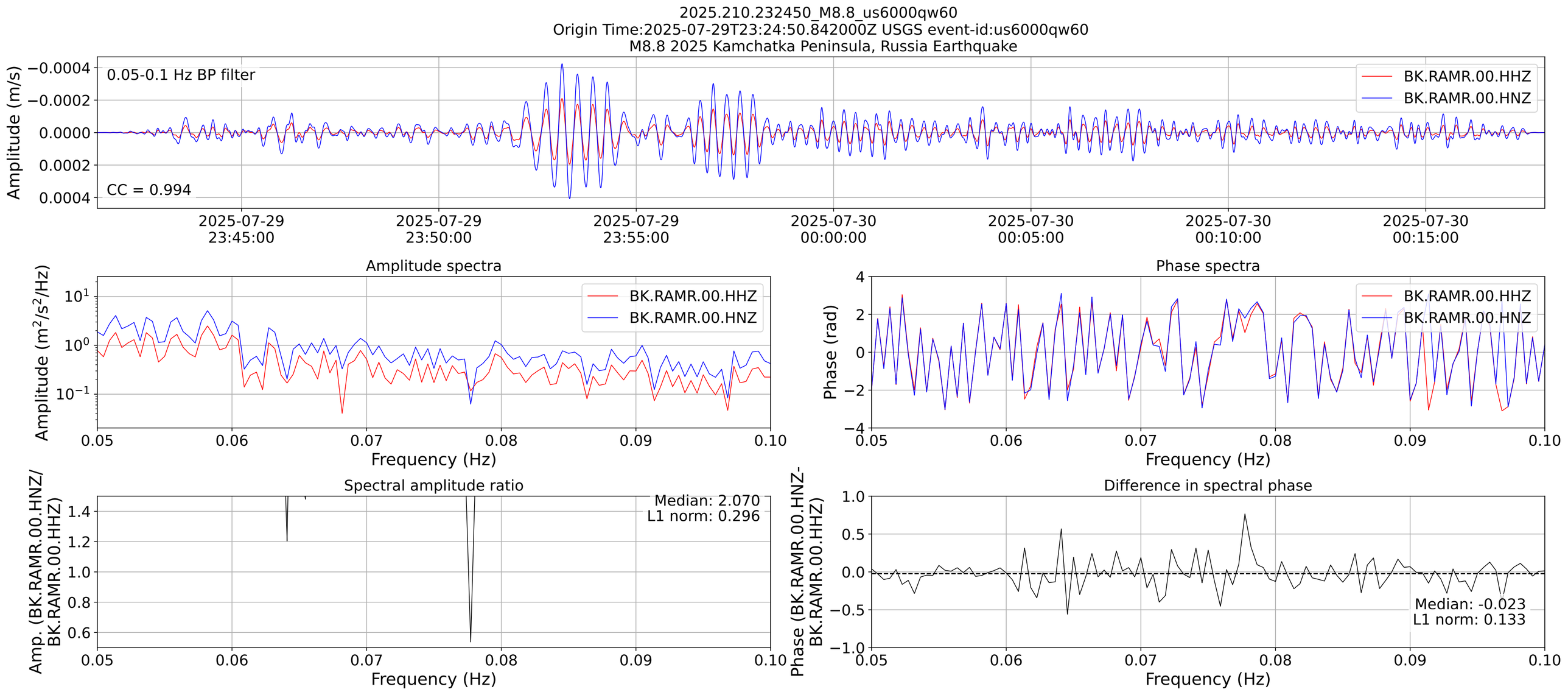

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.QRDG.00.HHE
BK.QRDG.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s⁴/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNE/ BK.QRDG.00.HHE)
Median: 1.068
L1 norm: 0.059
Difference in spectral phase
Phase (BK.QRDG.00.HNE- BK.QRDG.00.HHE)
Median: 0.006
L1 norm: 0.065

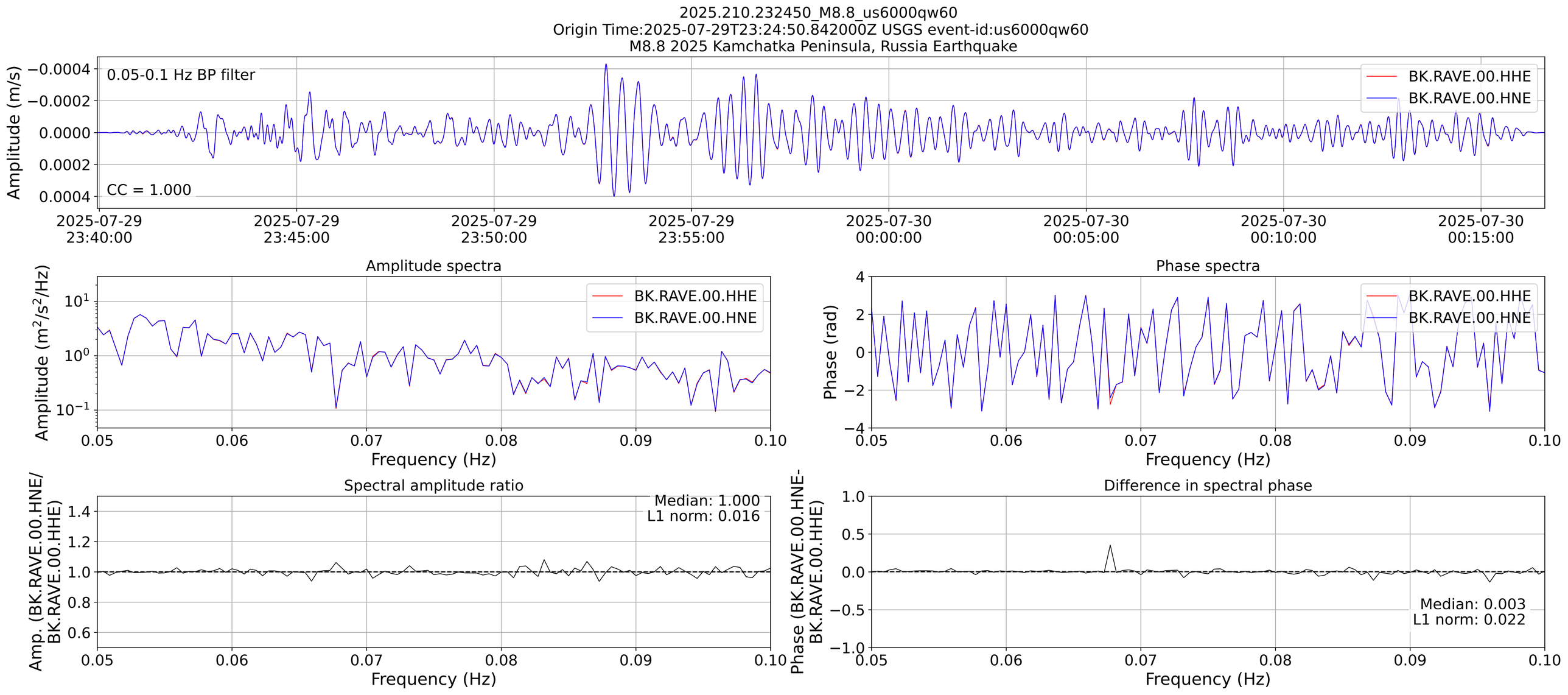

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
BK.QRDG.00.HHN
BK.QRDG.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNN/ BK.QRDG.00.HHN)
Median: 1.094
L1 norm: 0.067
Difference in spectral phase
Phase (BK.QRDG.00.HNN- BK.QRDG.00.HHN)
Median: 0.004
L1 norm: 0.072

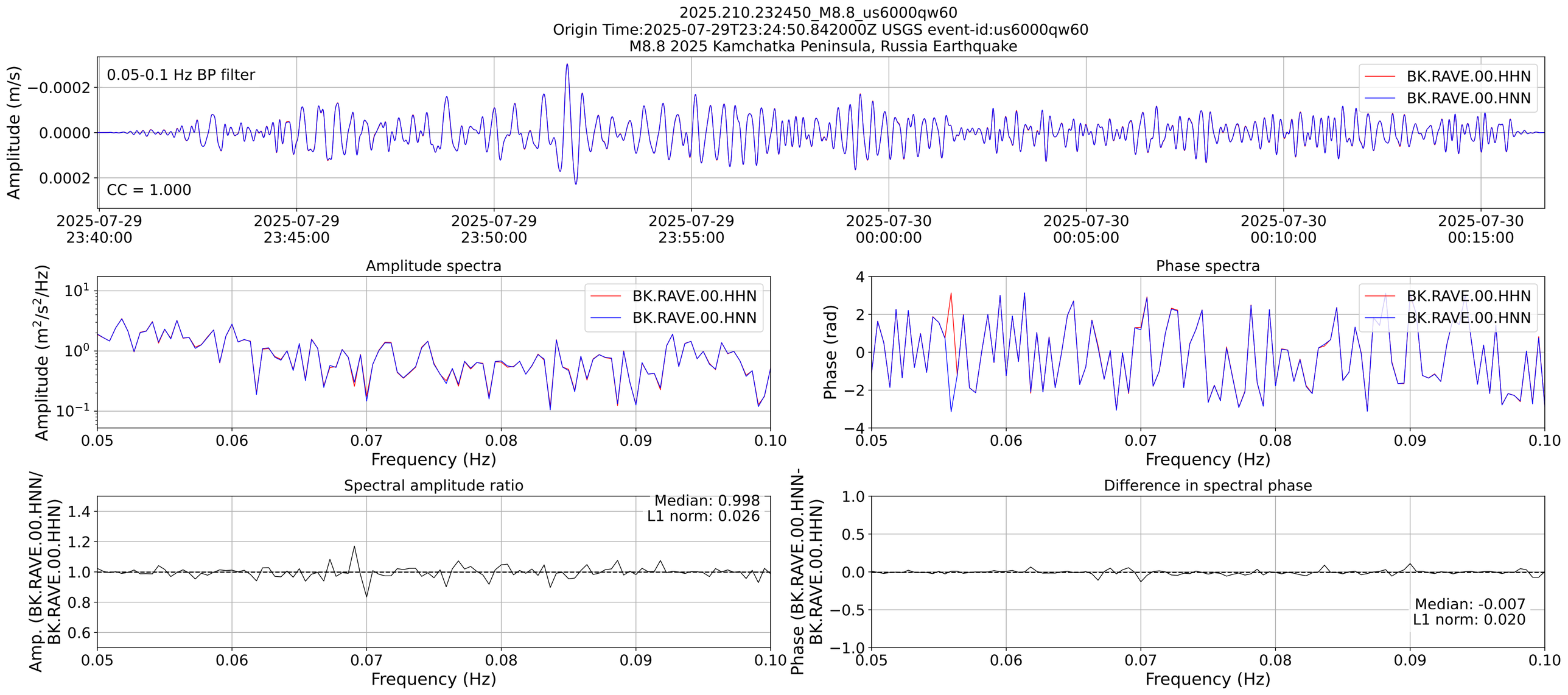

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.QRDG.00.HHZ
BK.QRDG.00.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNZ/ BK.QRDG.00.HHZ)
Median: 1.065
L1 norm: 0.037
Difference in spectral phase
Phase (BK.QRDG.00.HNZ- BK.QRDG.00.HHZ)
Median: -0.003
L1 norm: 0.034

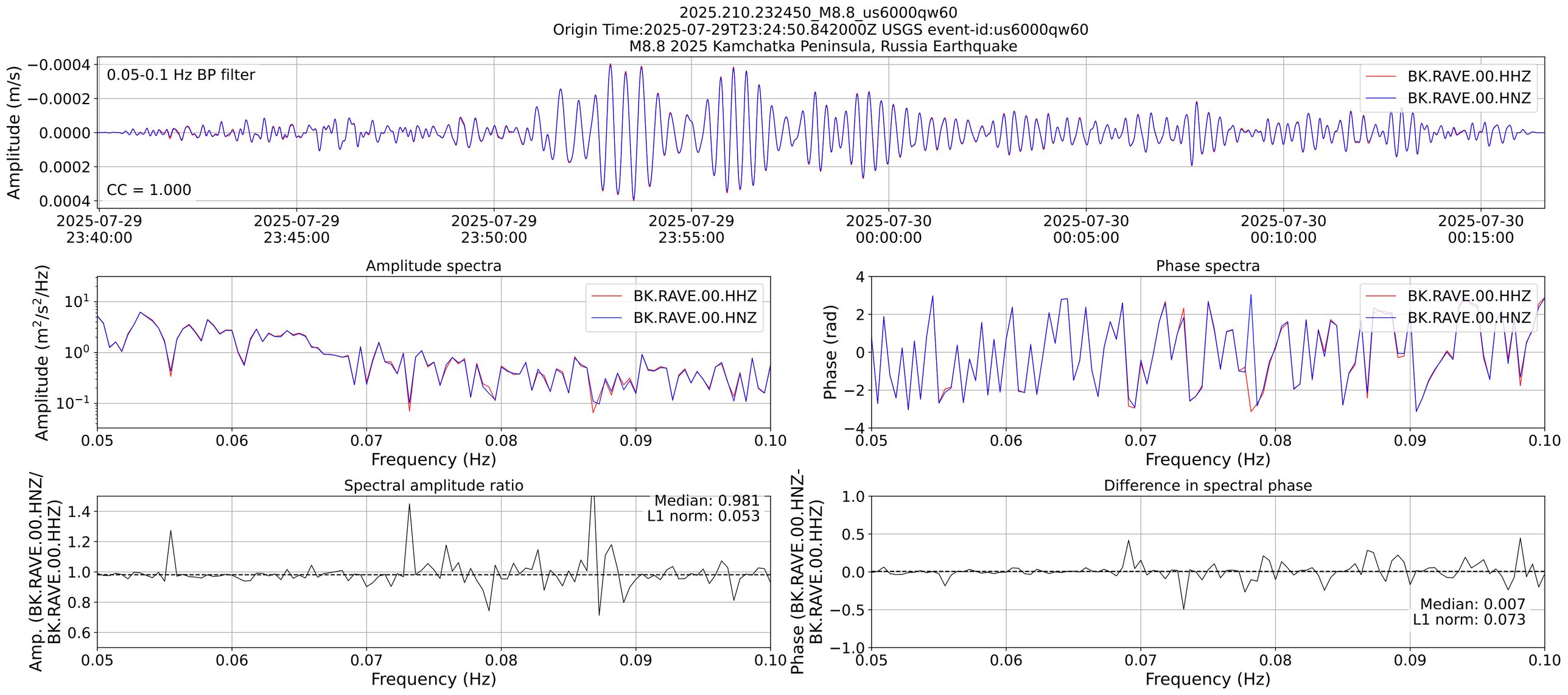

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.991
BK.RAMR.00.HHE
BK.RAMR.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.00.HNE/ BK.RAMR.00.HHE)
Median: 1.049
L1 norm: 0.140
Difference in spectral phase
Phase (BK.RAMR.00.HNE- BK.RAMR.00.HHE)
Median: -0.025
L1 norm: 0.139

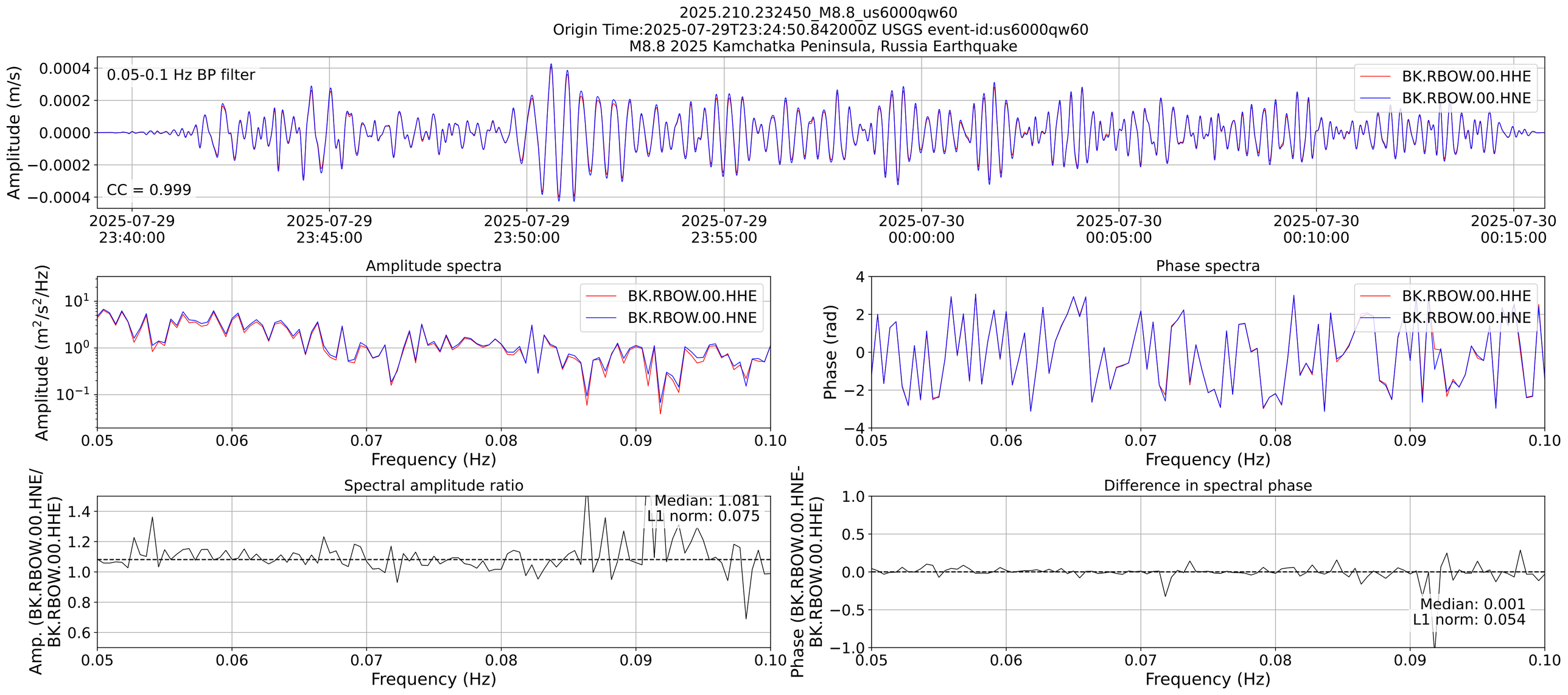

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
BK.RAMR.00.HHN
BK.RAMR.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.00.HNN/ BK.RAMR.00.HHN)
Median: 1.990
L1 norm: 0.158
Difference in spectral phase
Phase (BK.RAMR.00.HNN- BK.RAMR.00.HHN)
Median: -0.025
L1 norm: 0.091

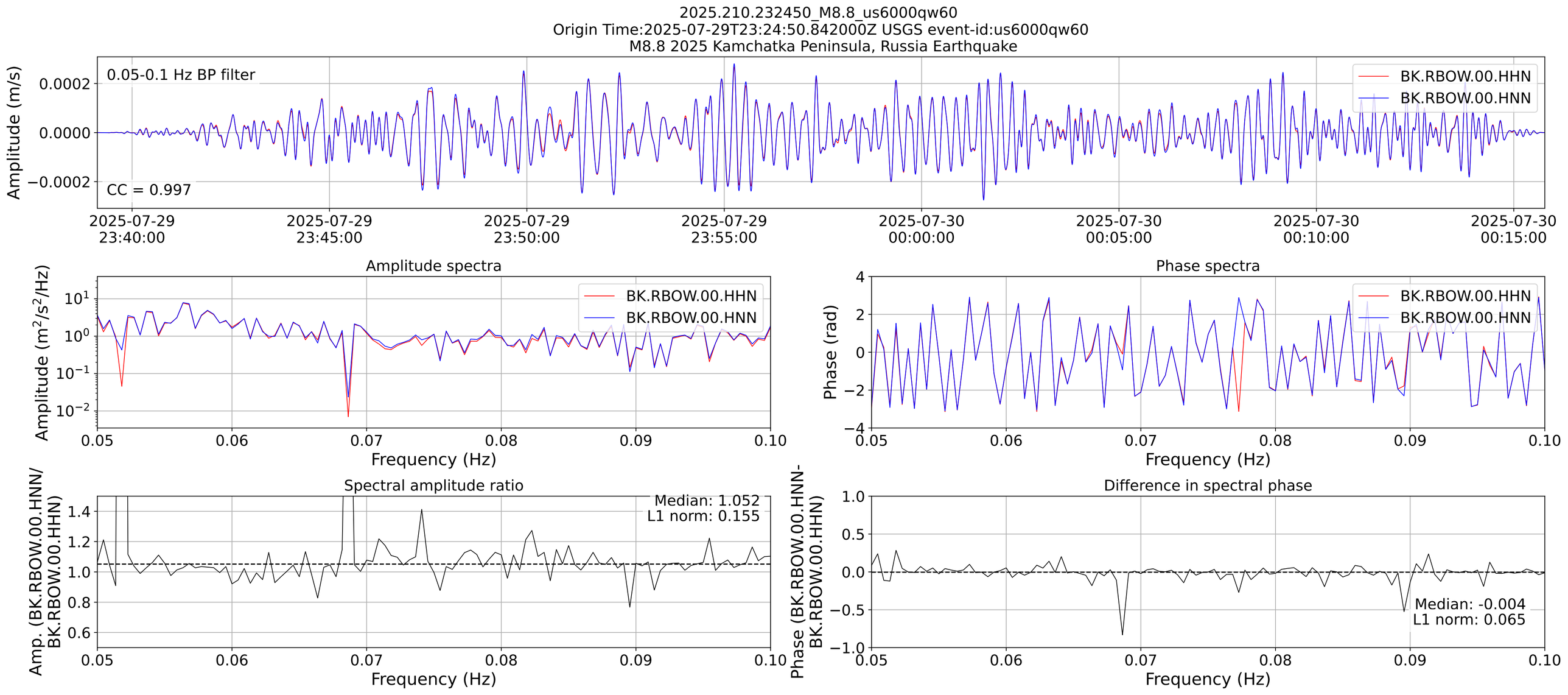

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
BK.RAMR.00.HHZ
BK.RAMR.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.00.HNZ/ BK.RAMR.00.HHZ)
Median: 2.070
L1 norm: 0.296
Difference in spectral phase
Phase (BK.RAMR.00.HNZ- BK.RAMR.00.HHZ)
Median: -0.023
L1 norm: 0.133

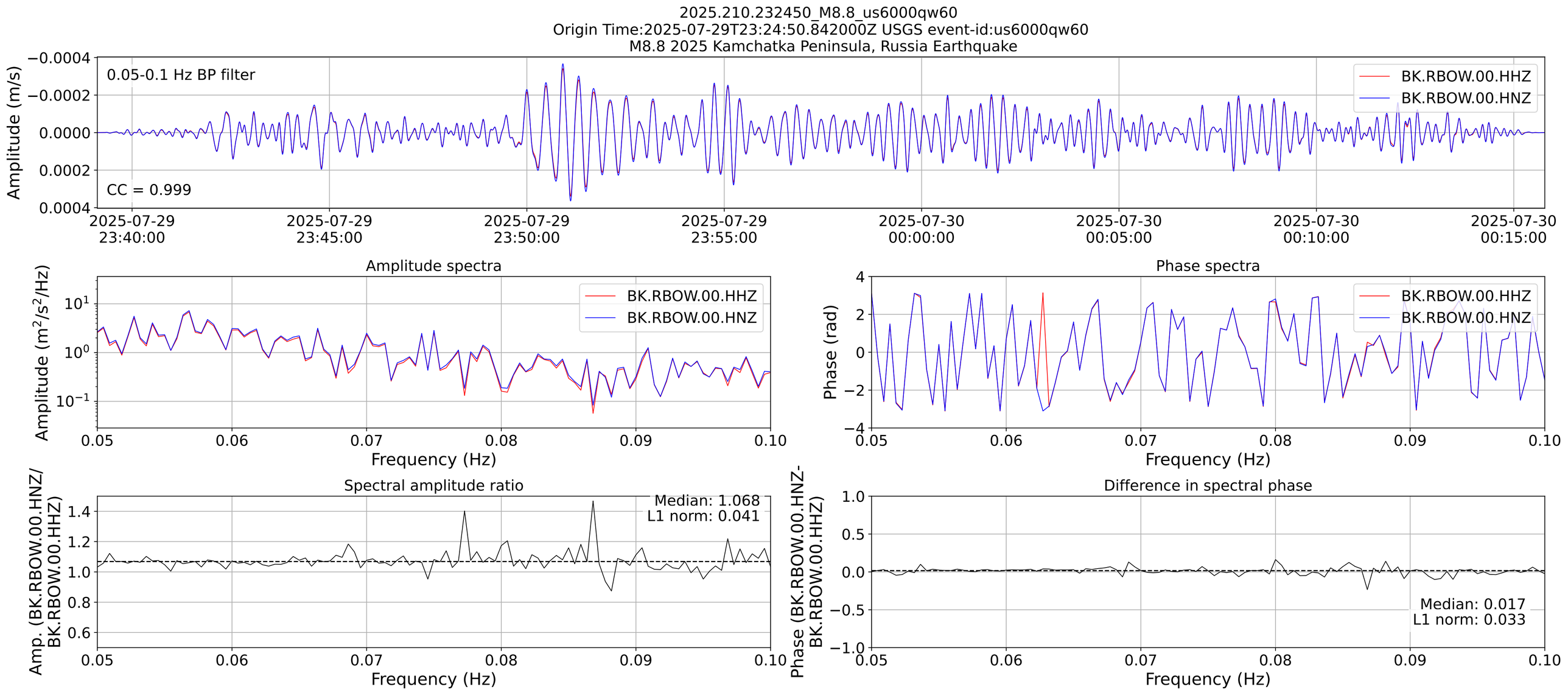

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RAVE.00.HHE
BK.RAVE.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNE/ BK.RAVE.00.HHE)
Median: 1.000
L1 norm: 0.016
Difference in spectral phase
Phase (BK.RAVE.00.HNE- BK.RAVE.00.HHE)
Median: 0.003
L1 norm: 0.022

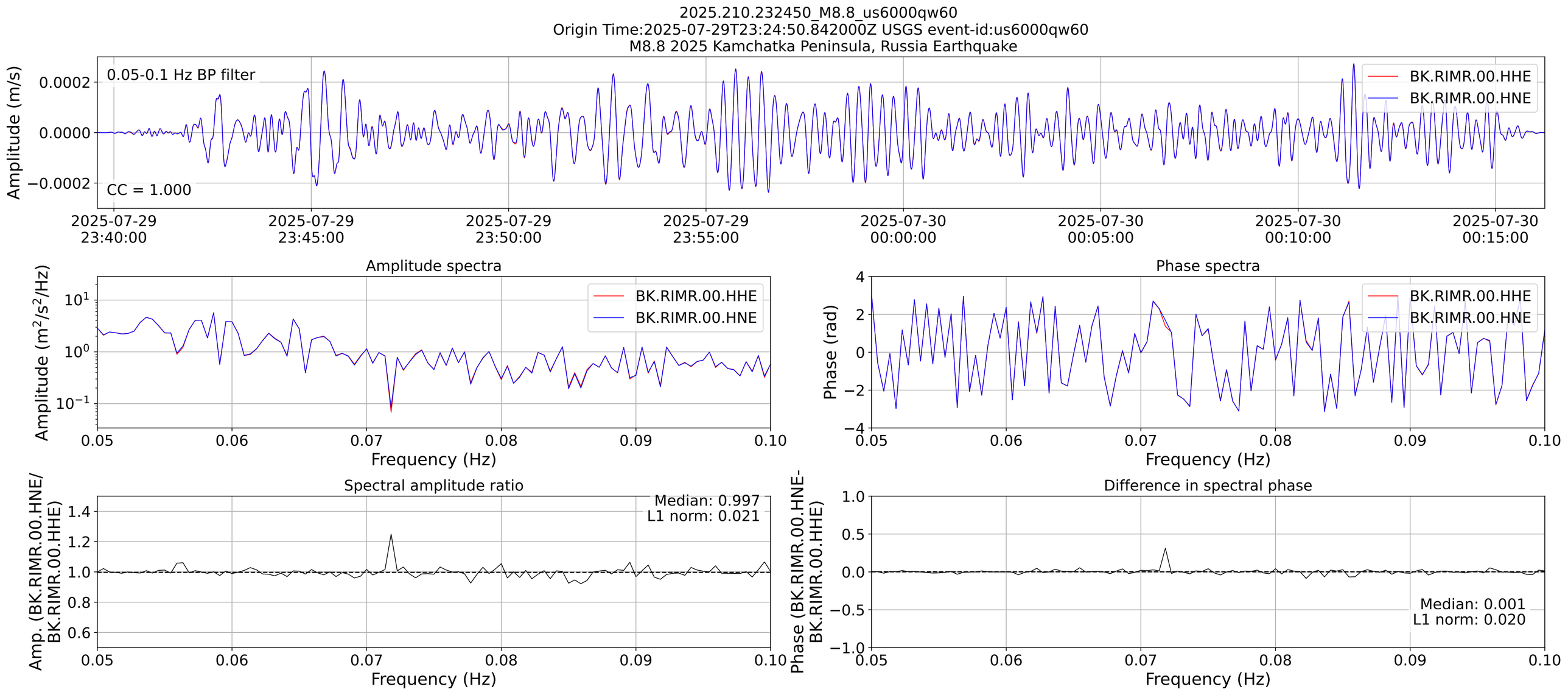

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RAVE.00.HHN
BK.RAVE.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNN/ BK.RAVE.00.HHN)
Median: 0.998
L1 norm: 0.026
Difference in spectral phase
Phase (BK.RAVE.00.HNN- BK.RAVE.00.HHN)
Median: -0.007
L1 norm: 0.020

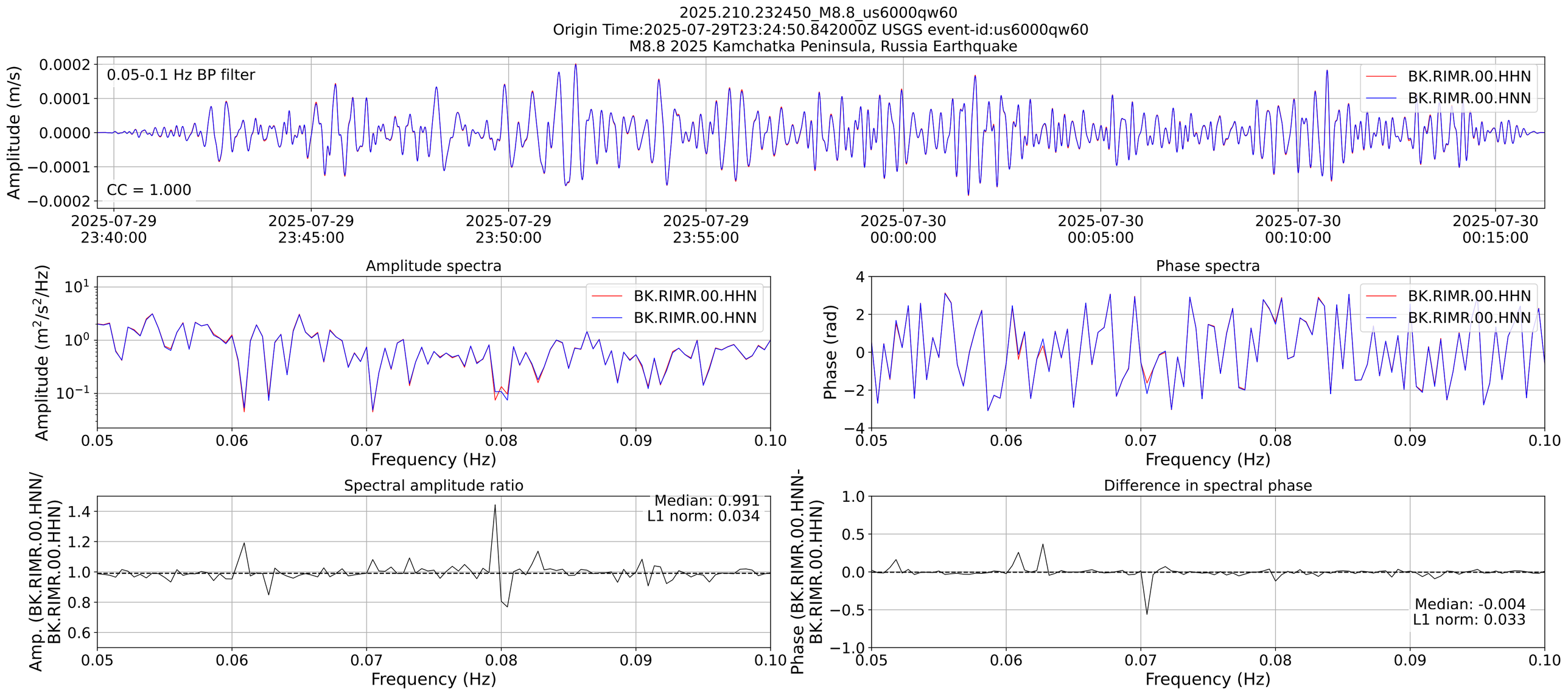

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RAVE.00.HHZ
BK.RAVE.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNZ/ BK.RAVE.00.HHZ)
Median: 0.981
L1 norm: 0.053
Difference in spectral phase
Phase (BK.RAVE.00.HNZ- BK.RAVE.00.HHZ)
Median: 0.007
L1 norm: 0.073

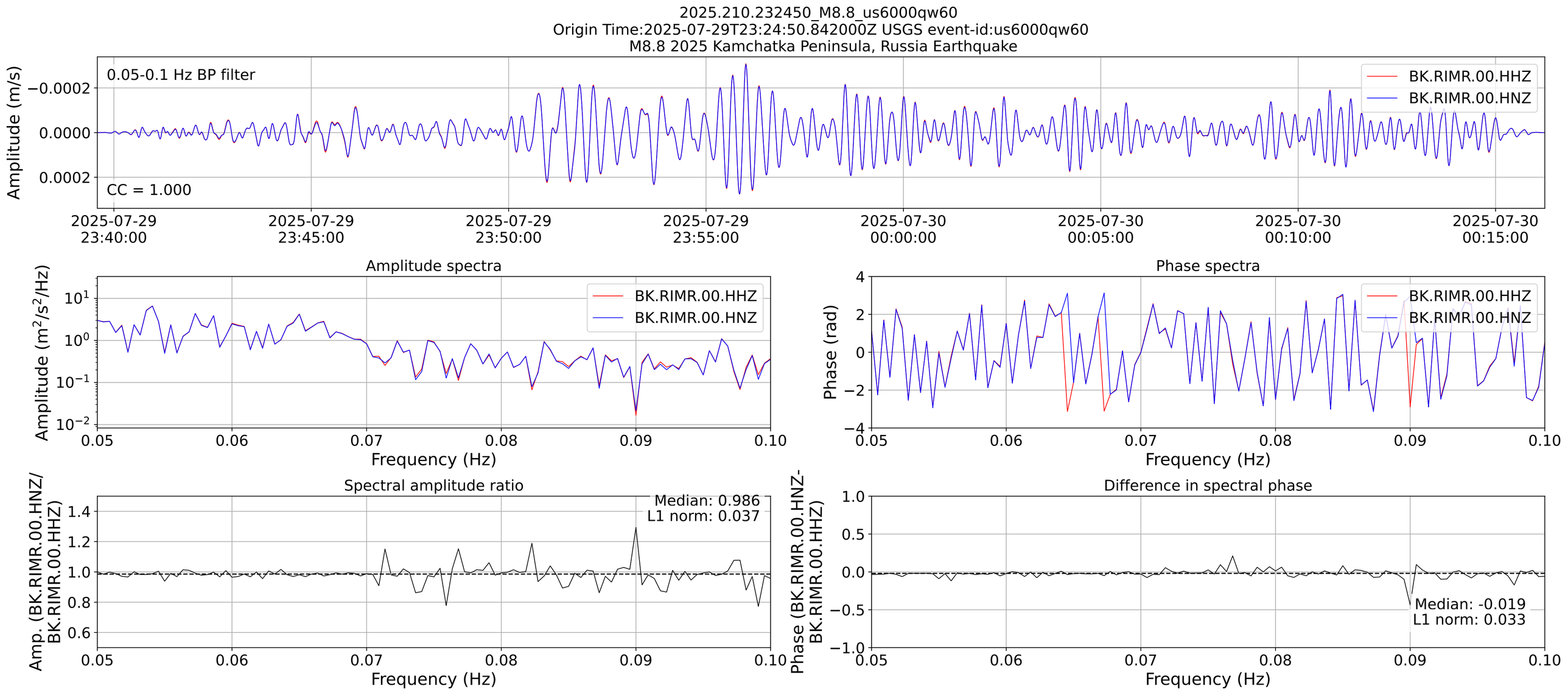

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RBOW.00.HHE
BK.RBOW.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNE/ BK.RBOW.00.HHE)
Median: 1.081
L1 norm: 0.075
Difference in spectral phase
Phase (BK.RBOW.00.HNE- BK.RBOW.00.HHE)
Median: 0.001
L1 norm: 0.054

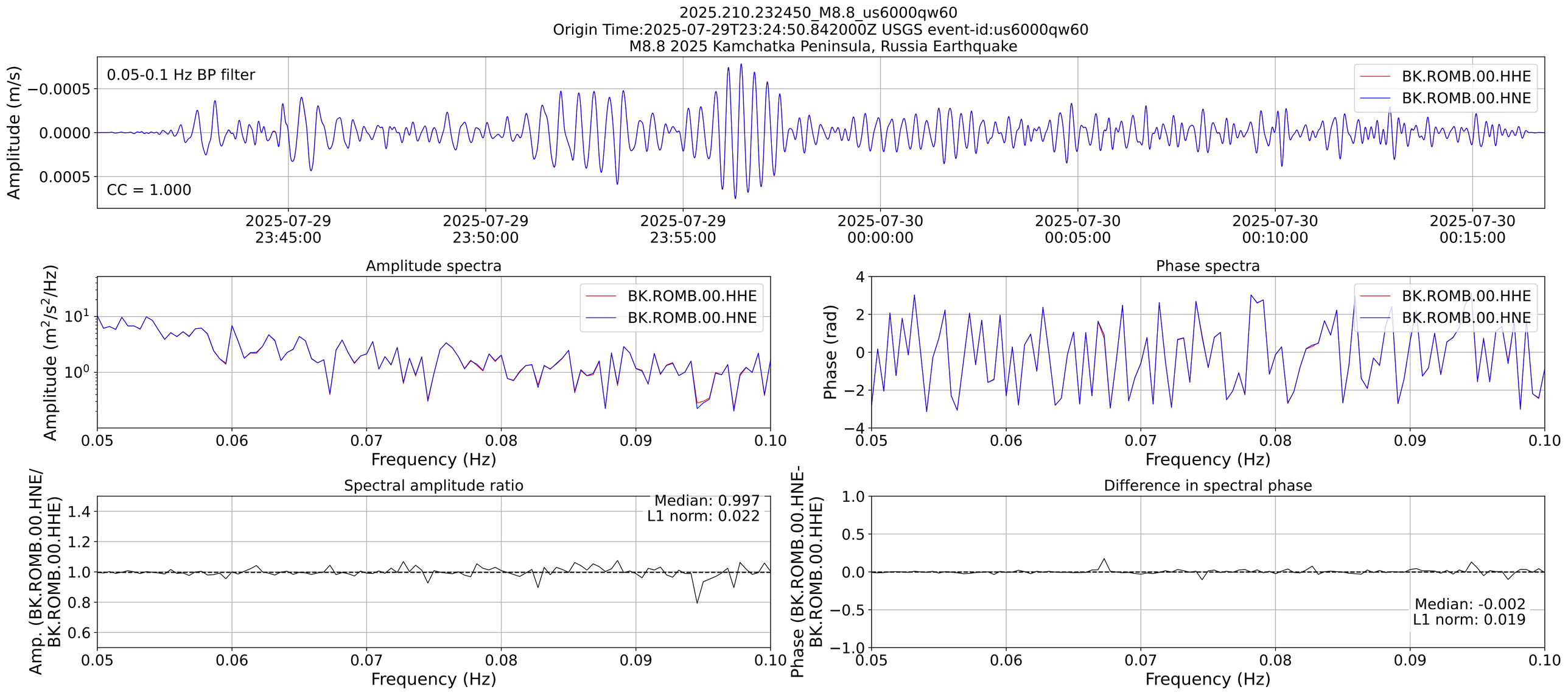

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.RBOW.00.HHN
BK.RBOW.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNN/ BK.RBOW.00.HHN)
Median: 1.052
L1 norm: 0.155
Difference in spectral phase
Phase (BK.RBOW.00.HNN- BK.RBOW.00.HHN)
Median: -0.004
L1 norm: 0.065

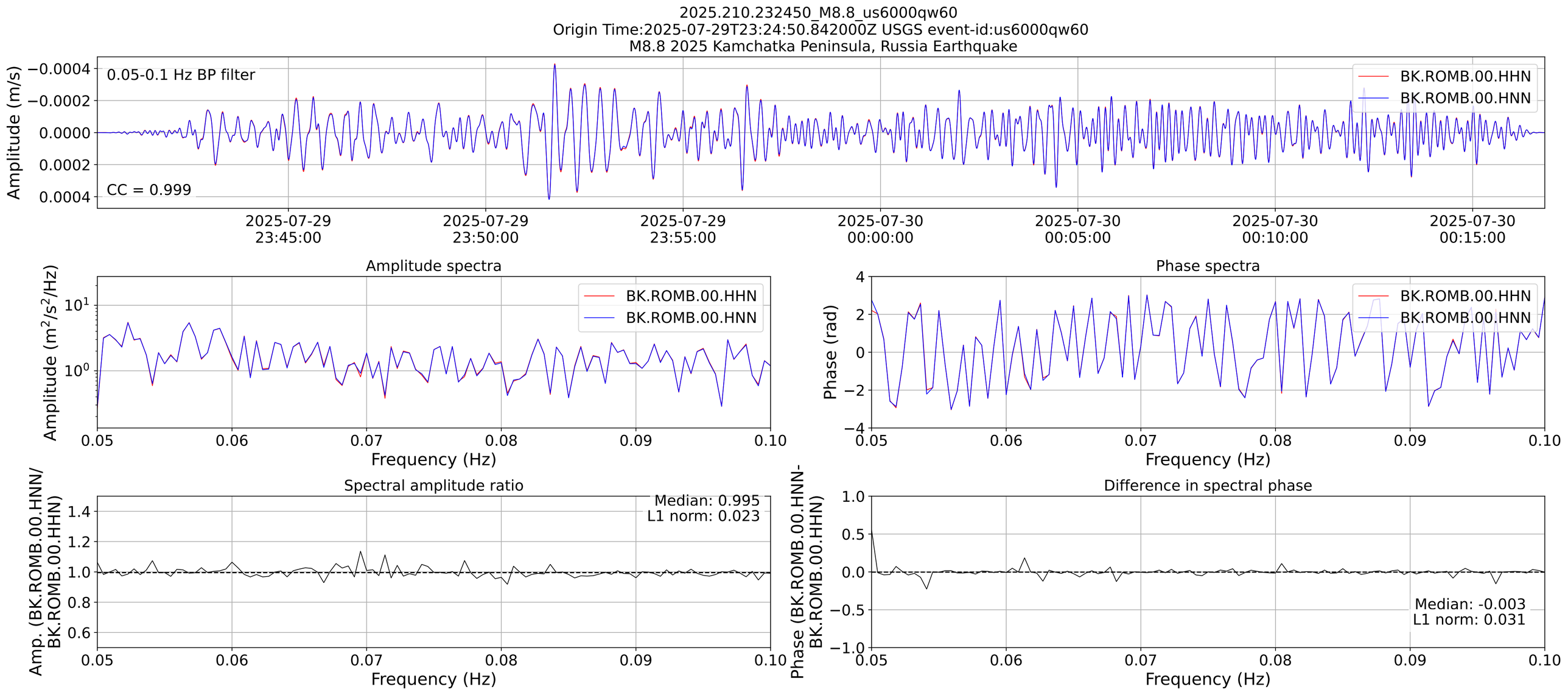

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RBOW.00.HHZ
BK.RBOW.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNZ/ BK.RBOW.00.HHZ)
Median: 1.068
L1 norm: 0.041
Difference in spectral phase
Phase (BK.RBOW.00.HNZ- BK.RBOW.00.HHZ)
Median: 0.017
L1 norm: 0.033

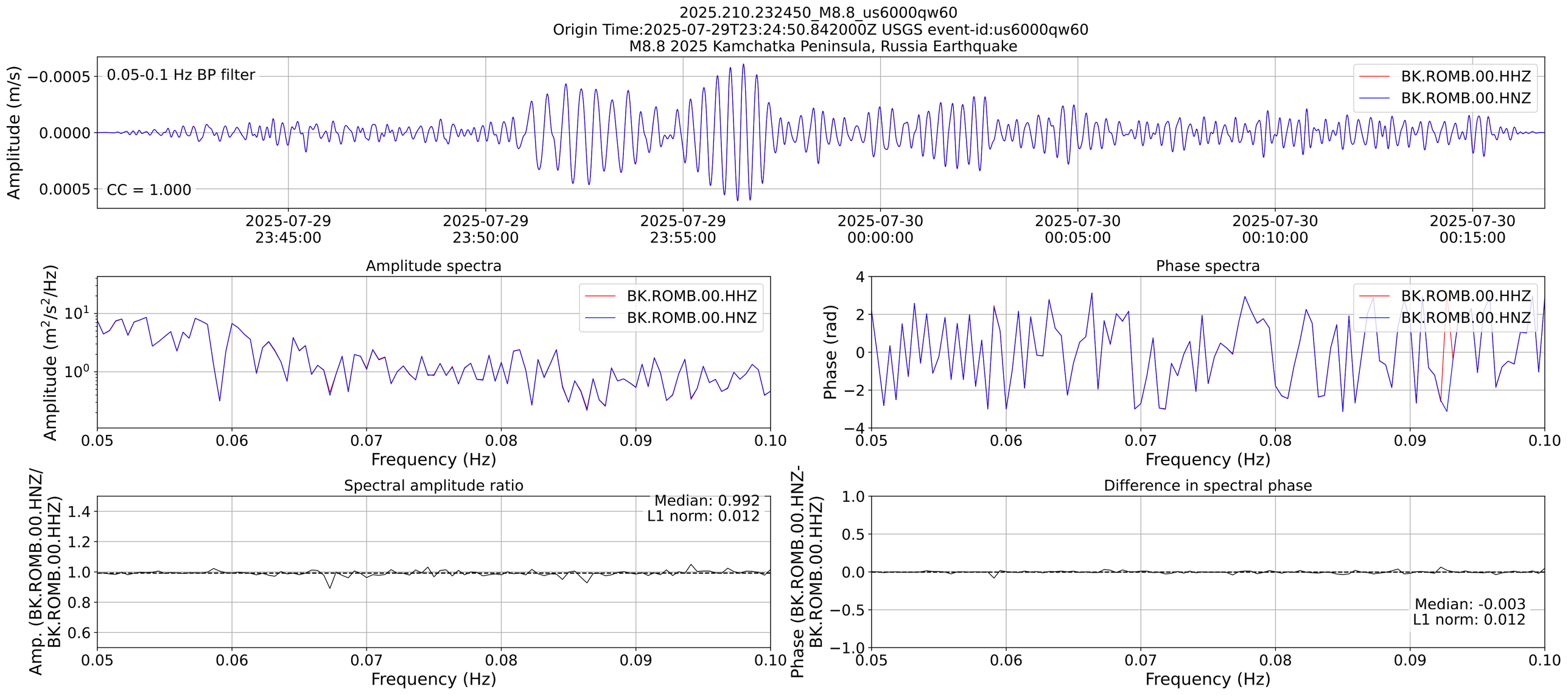

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RIMR.00.HHE
BK.RIMR.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RIMR.00.HNE/ BK.RIMR.00.HHE)
Median: 0.997
L1 norm: 0.021
Difference in spectral phase
Phase (BK.RIMR.00.HNE- BK.RIMR.00.HHE)
Median: 0.001
L1 norm: 0.020

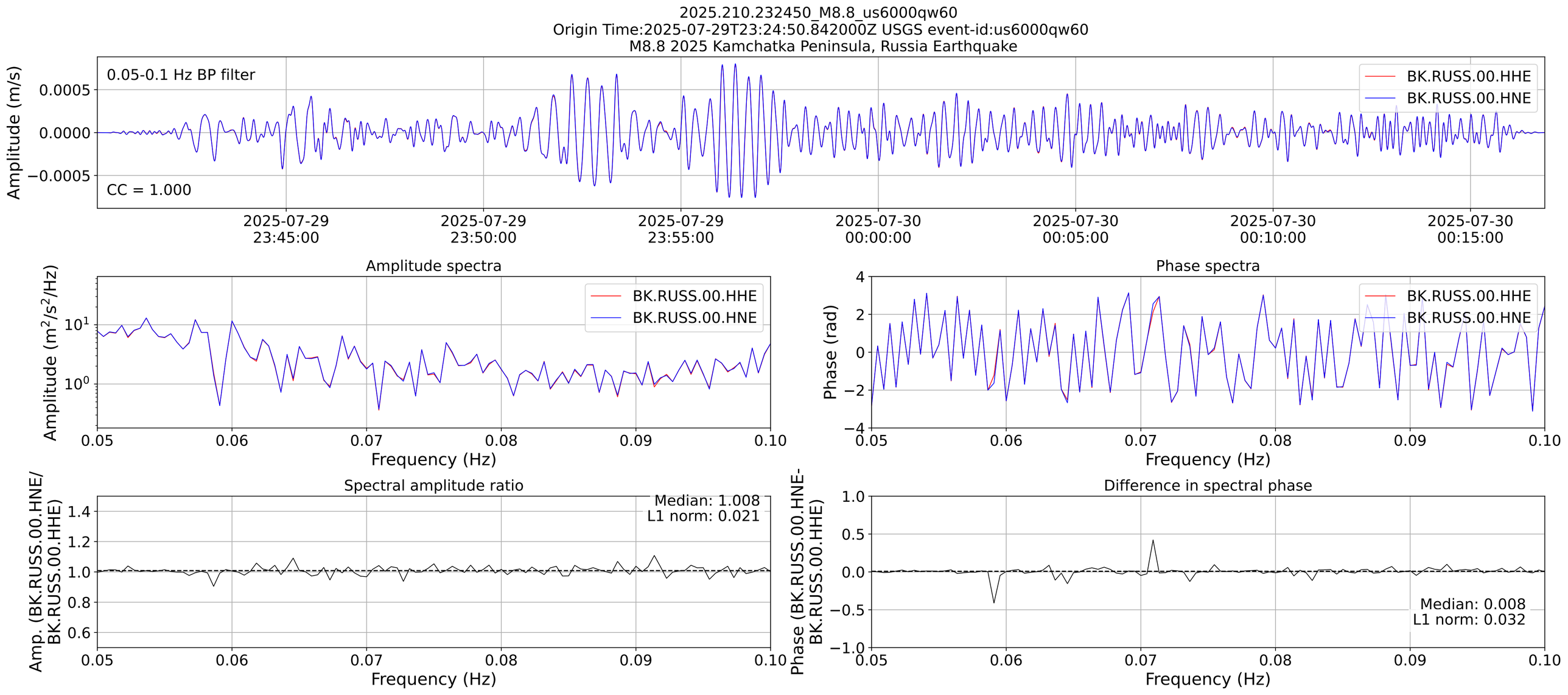

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RIMR.00.HHN
BK.RIMR.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RIMR.00.HNN/ BK.RIMR.00.HHN)
Median: 0.991
L1 norm: 0.034
Difference in spectral phase
Phase (BK.RIMR.00.HNN- BK.RIMR.00.HHN)
Median: -0.004
L1 norm: 0.033

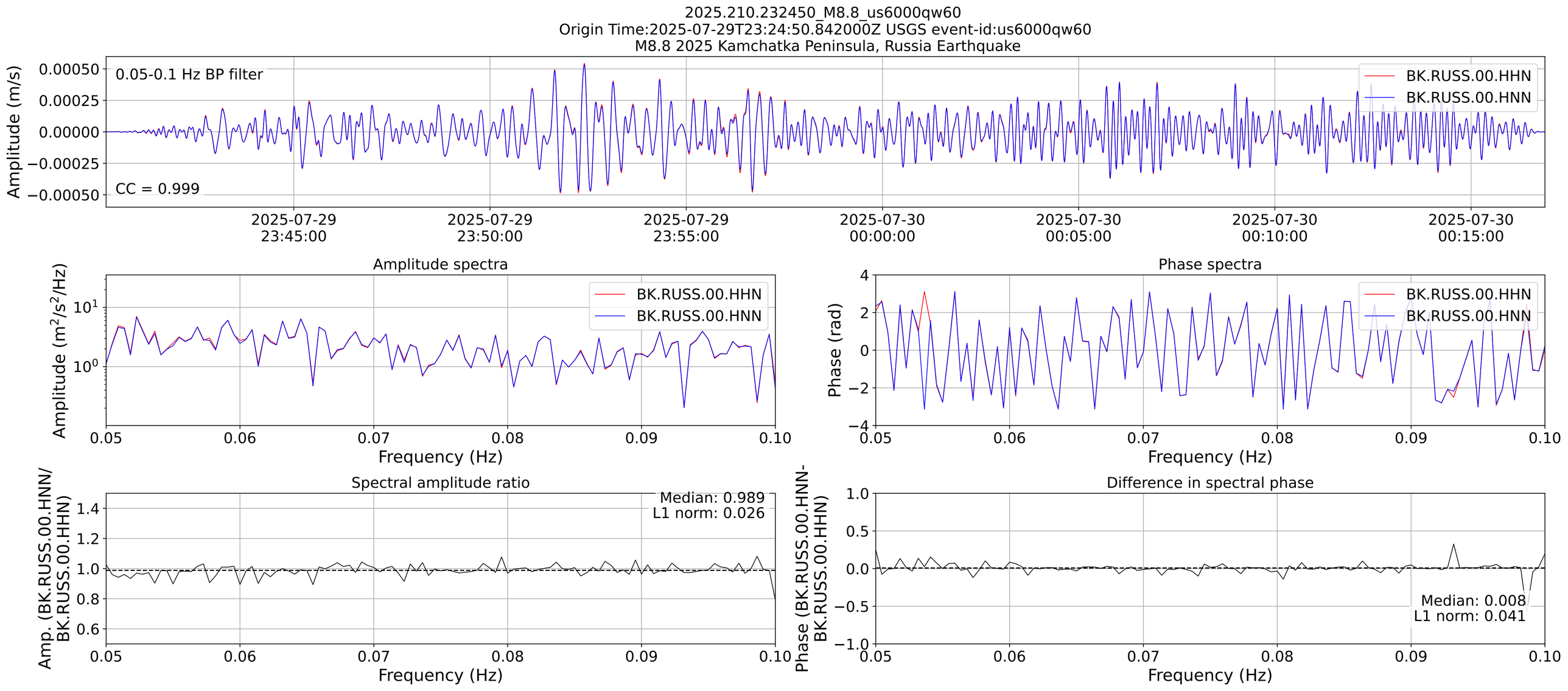

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RIMR.00.HHZ
BK.RIMR.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RIMR.00.HNZ/ BK.RIMR.00.HHZ)
Median: 0.986
L1 norm: 0.037
Difference in spectral phase
Phase (BK.RIMR.00.HNZ- BK.RIMR.00.HHZ)
Median: -0.019
L1 norm: 0.033

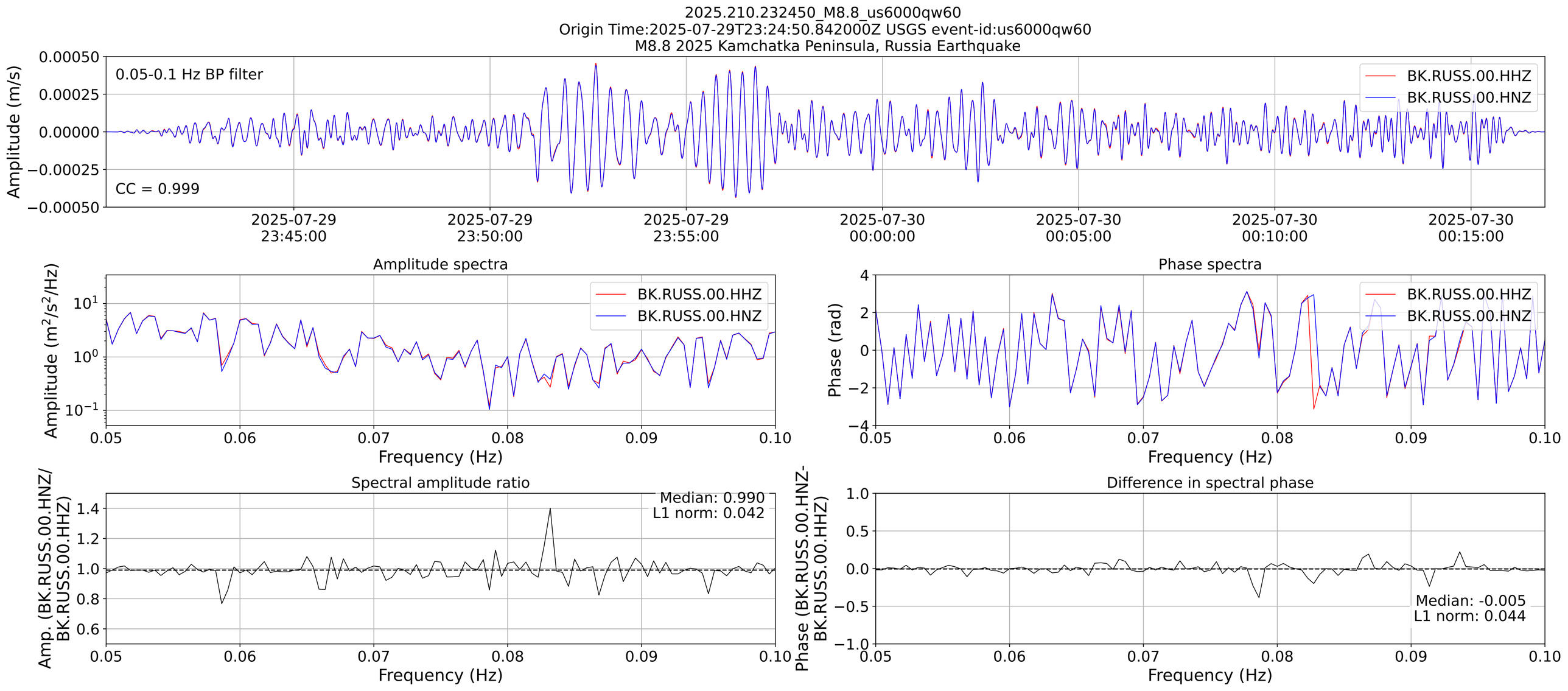

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ROMB.00.HHE
BK.ROMB.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNE/ BK.ROMB.00.HHE)
Median: 0.997
L1 norm: 0.022
Difference in spectral phase
Phase (BK.ROMB.00.HNE- BK.ROMB.00.HHE)
Median: -0.002
L1 norm: 0.019

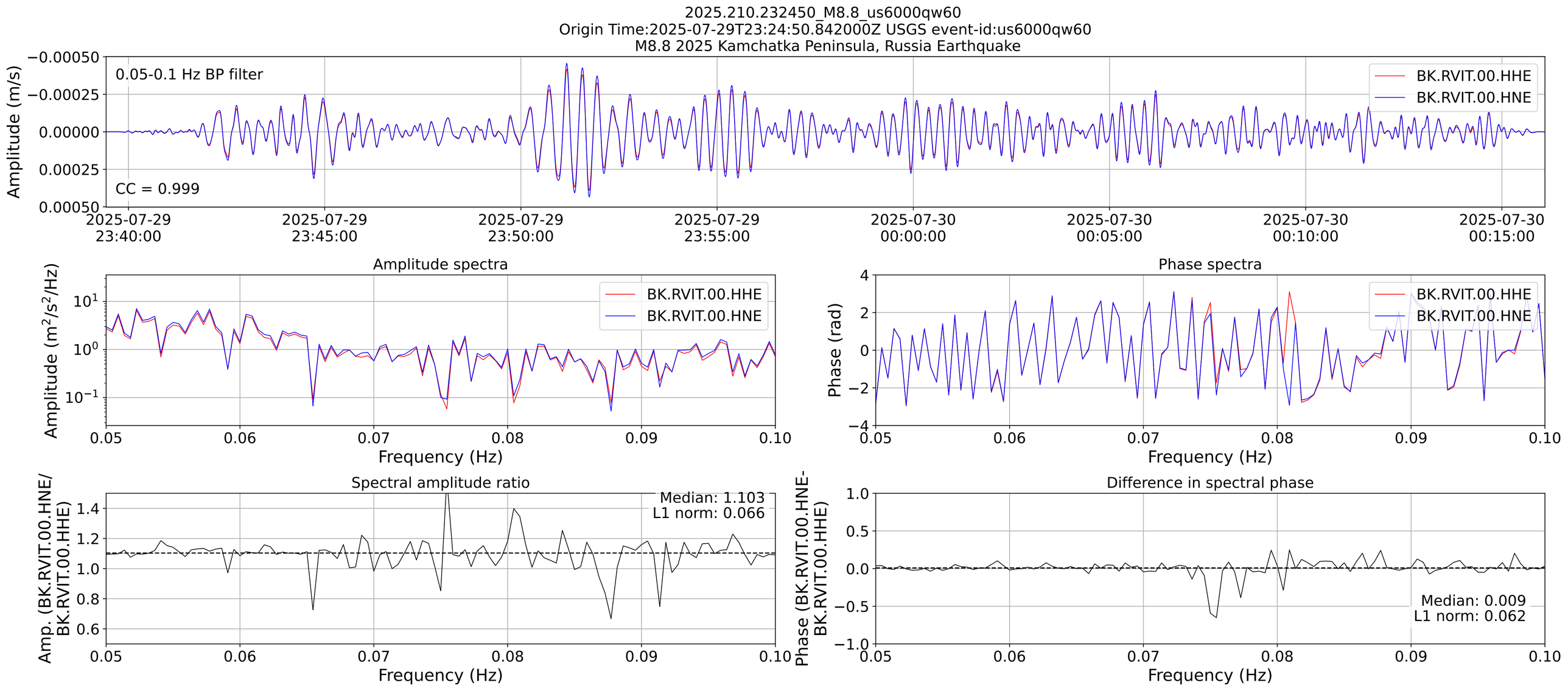

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.ROMB.00.HHN
BK.ROMB.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNN/ BK.ROMB.00.HHN)
Median: 0.995
L1 norm: 0.023
Difference in spectral phase
Phase (BK.ROMB.00.HNN- BK.ROMB.00.HHN)
Median: -0.003
L1 norm: 0.031

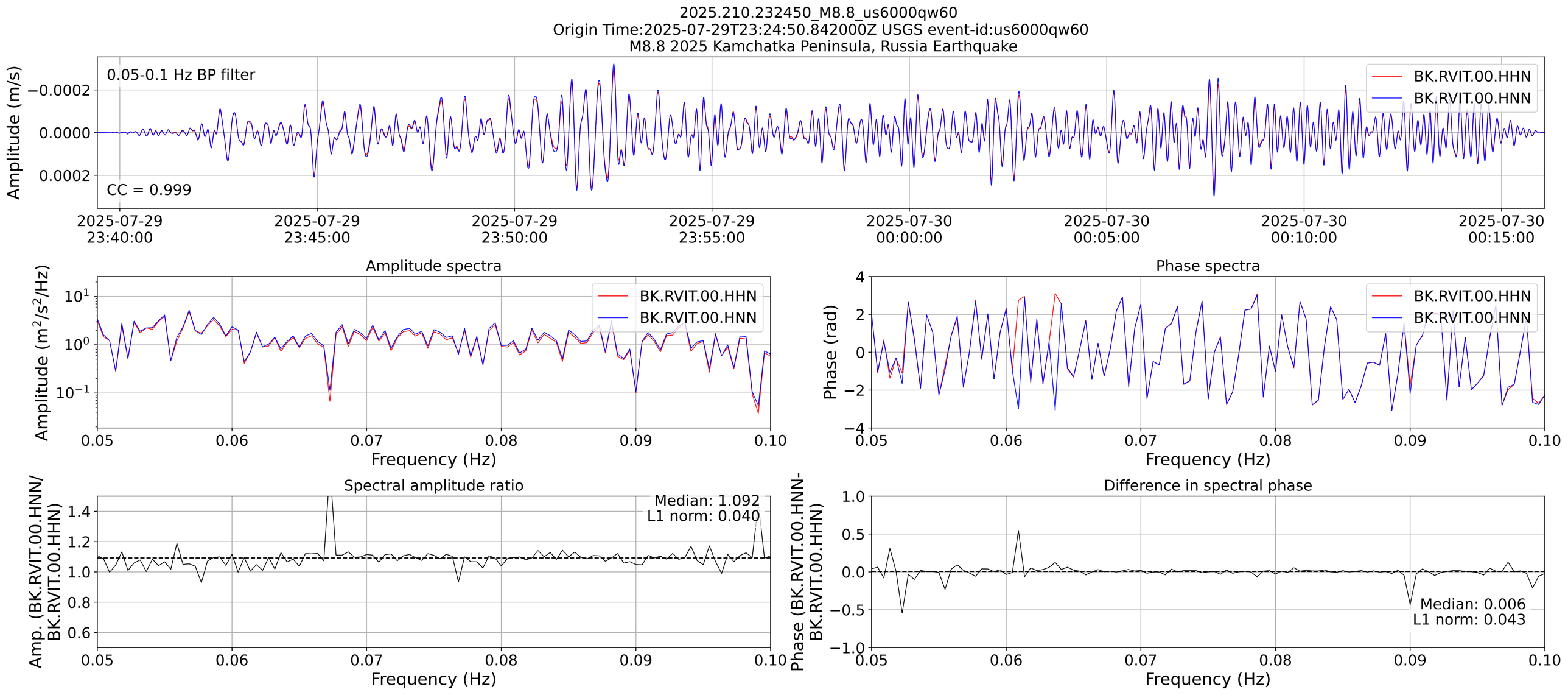

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.ROMB.00.HHZ
BK.ROMB.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNZ/ BK.ROMB.00.HHZ)
Median: 0.992
L1 norm: 0.012
Difference in spectral phase
Phase (BK.ROMB.00.HNZ- BK.ROMB.00.HHZ)
Median: -0.003
L1 norm: 0.012

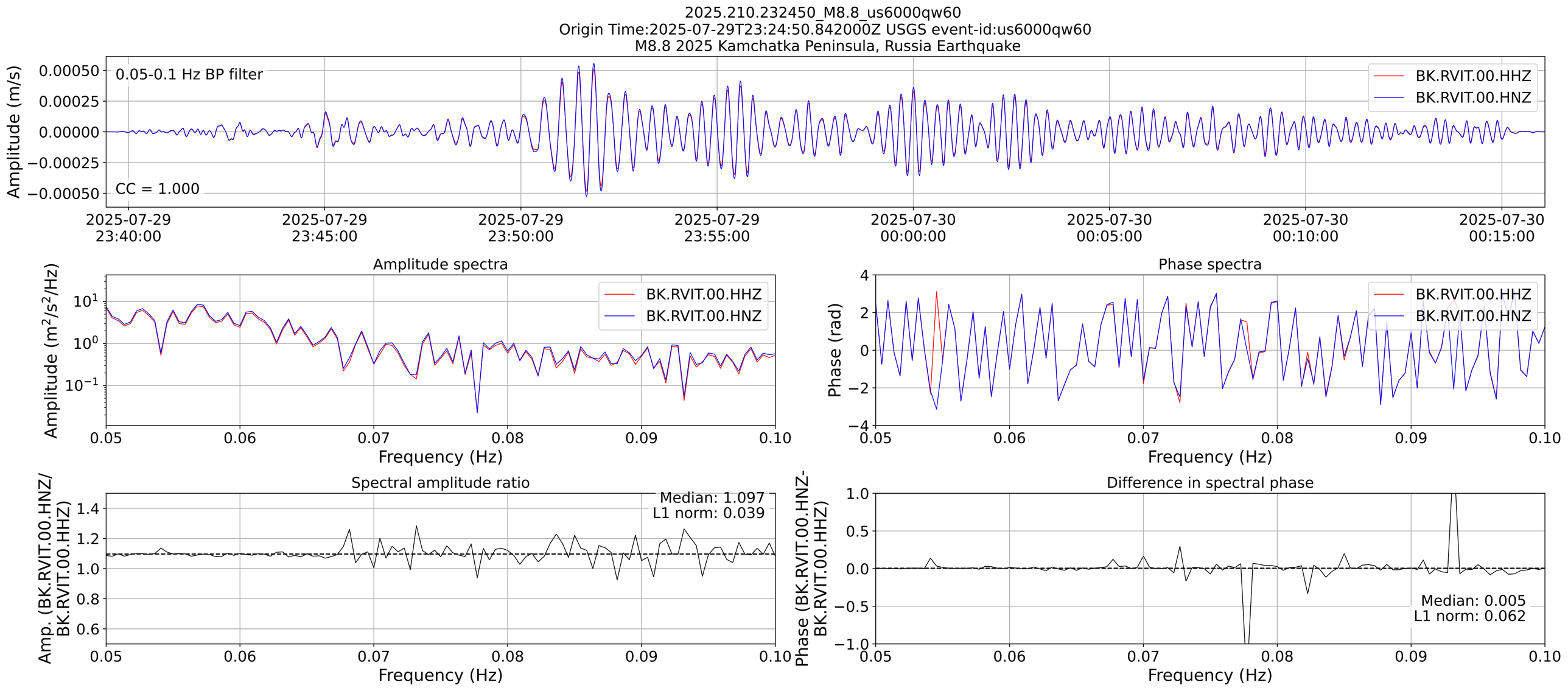

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RUSS.00.HHE
BK.RUSS.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNE/ BK.RUSS.00.HHE)
Median: 1.008
L1 norm: 0.021
Difference in spectral phase
Phase (BK.RUSS.00.HNE- BK.RUSS.00.HHE)
Median: 0.008
L1 norm: 0.032

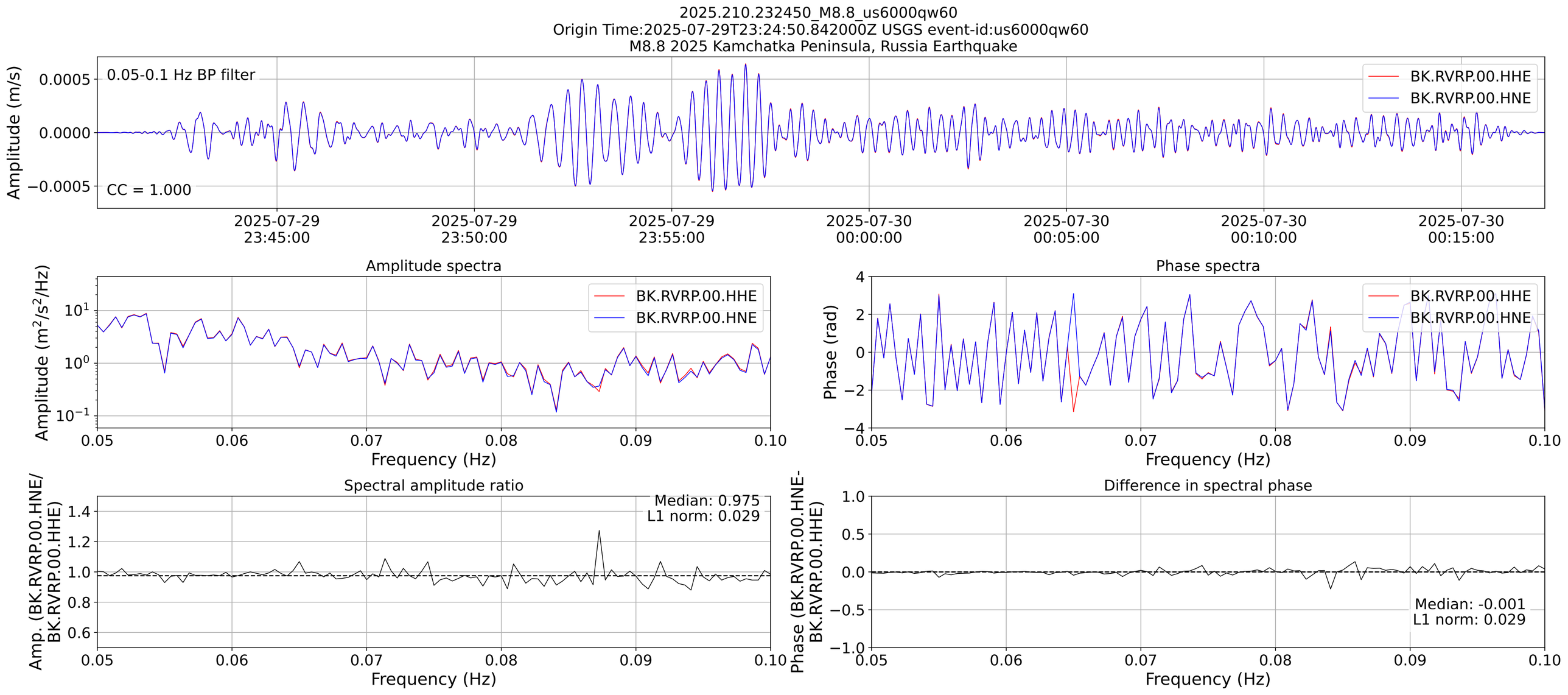

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RUSS.00.HHN
BK.RUSS.00.HNN
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNN/ BK.RUSS.00.HHN)
Median: 0.989
L1 norm: 0.026
Difference in spectral phase
Phase (BK.RUSS.00.HNN- BK.RUSS.00.HHN)
Median: 0.008
L1 norm: 0.041

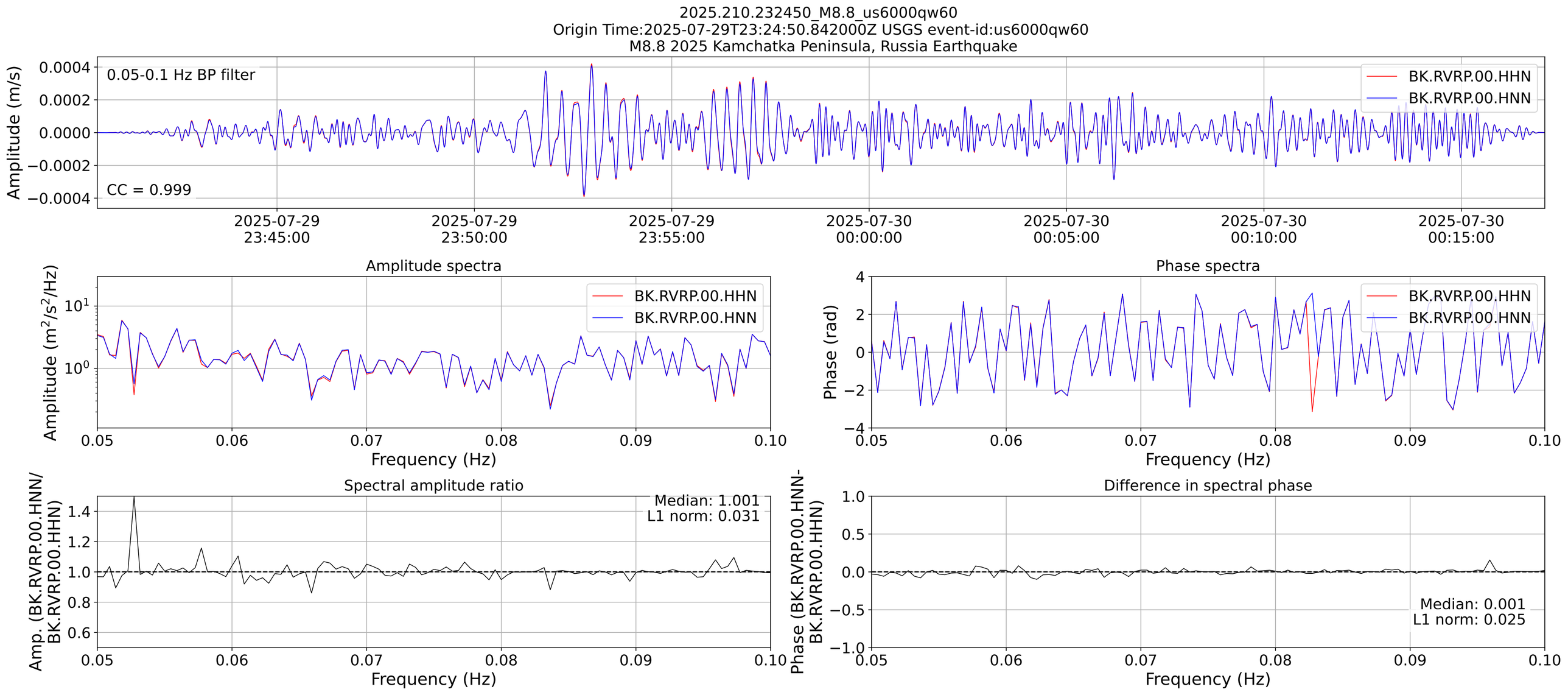

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RUSS.00.HHZ
BK.RUSS.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNZ/ BK.RUSS.00.HHZ)
Median: 0.990
L1 norm: 0.042
Difference in spectral phase
Phase (BK.RUSS.00.HNZ- BK.RUSS.00.HHZ)
Median: -0.005
L1 norm: 0.044

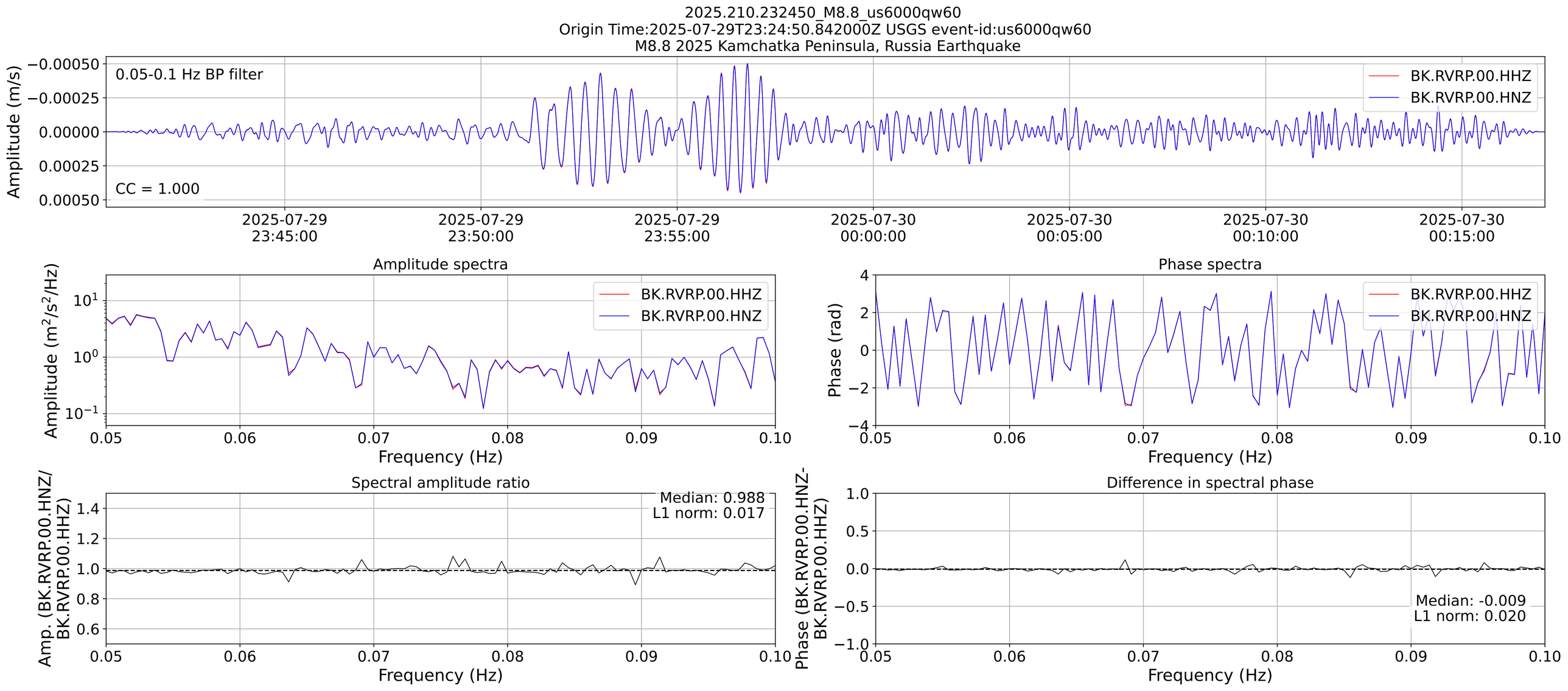

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RVIT.00.HHE
BK.RVIT.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNE/ BK.RVIT.00.HHE)
Median: 1.103
L1 norm: 0.066
Difference in spectral phase
Phase (BK.RVIT.00.HNE- BK.RVIT.00.HHE)
Median: 0.009
L1 norm: 0.062

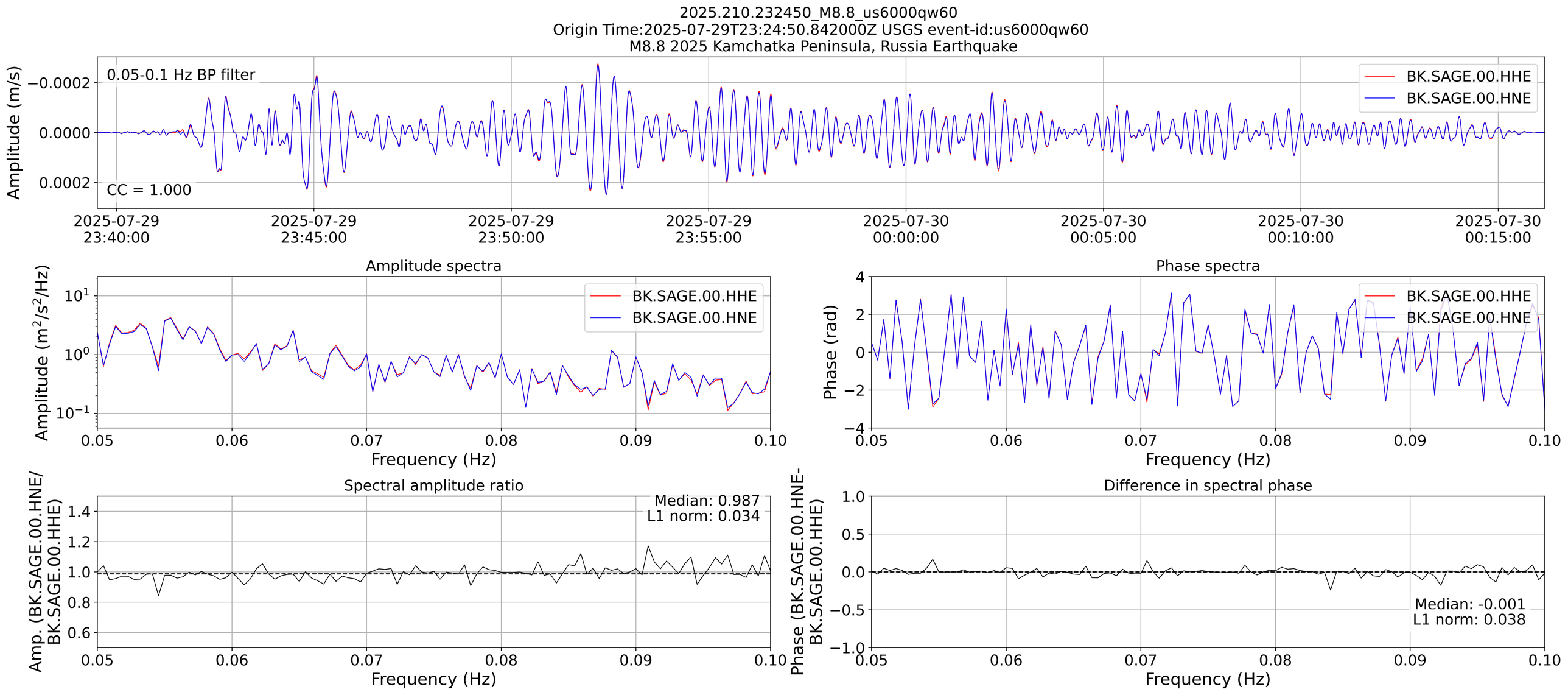

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RVIT.00.HHN
BK.RVIT.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNN/ BK.RVIT.00.HHN)
Median: 1.092
L1 norm: 0.040
Difference in spectral phase
Phase (BK.RVIT.00.HNN- BK.RVIT.00.HHN)
Median: 0.006
L1 norm: 0.043

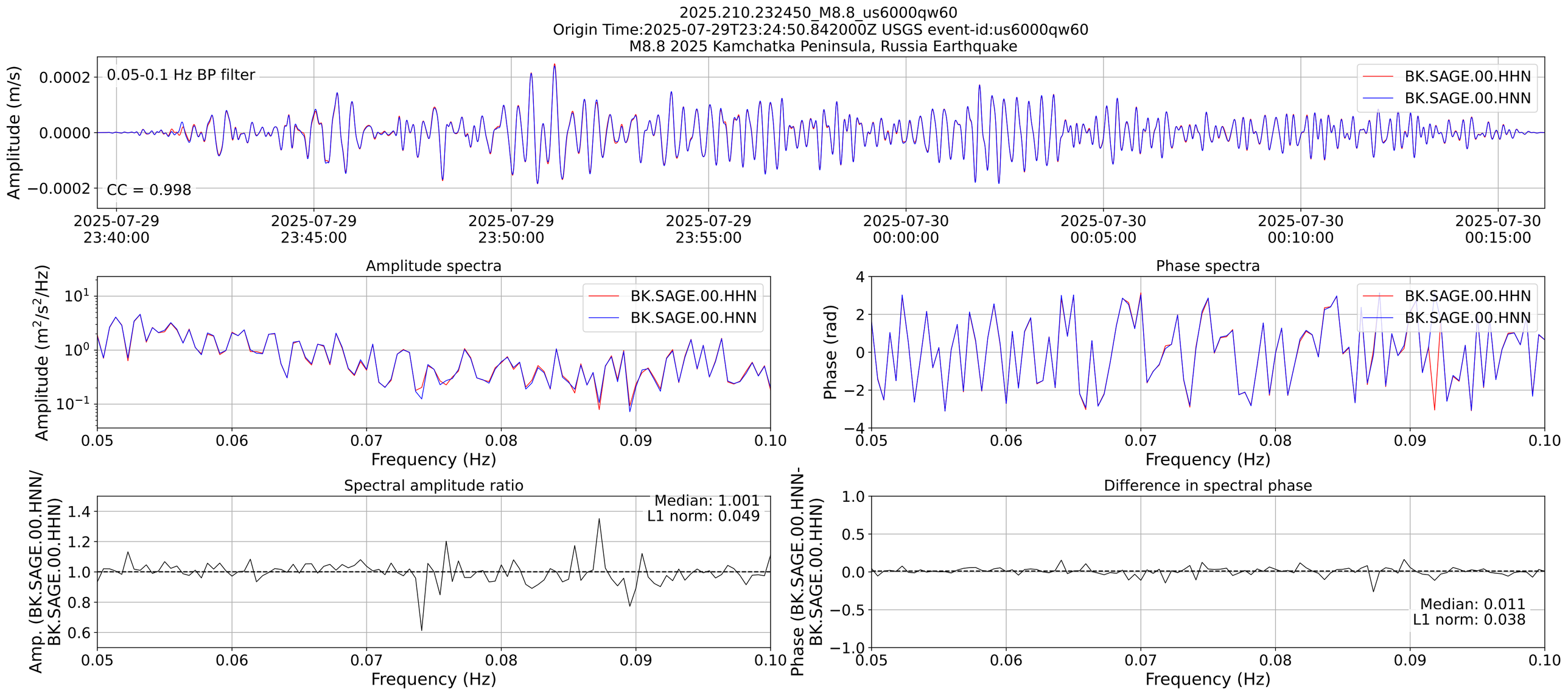

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RVIT.00.HHZ
BK.RVIT.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNZ/ BK.RVIT.00.HHZ)
Median: 1.097
L1 norm: 0.039
Difference in spectral phase
Phase (BK.RVIT.00.HNZ- BK.RVIT.00.HHZ)
Median: 0.005
L1 norm: 0.062

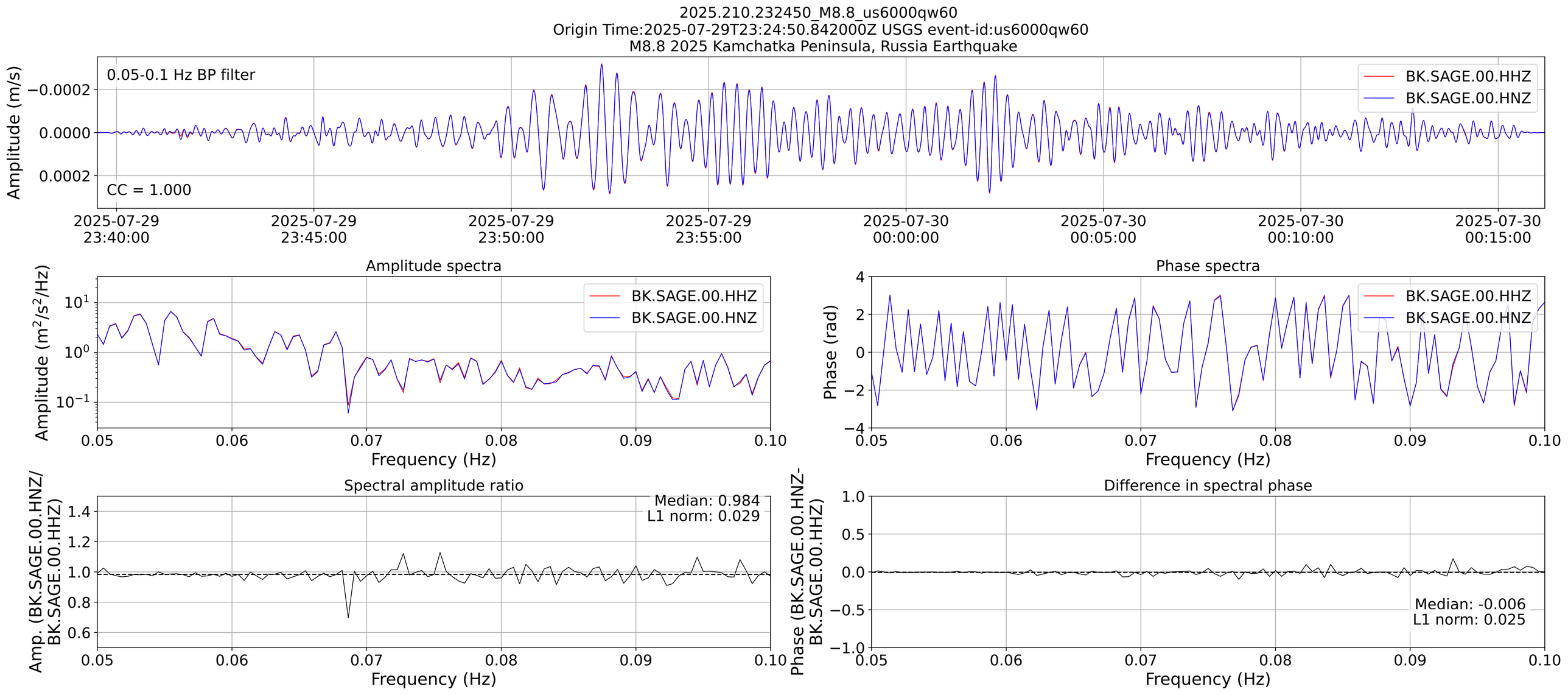

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RVRP.00.HHE
BK.RVRP.00.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNE/ BK.RVRP.00.HHE)
Median: 0.975
L1 norm: 0.029
Difference in spectral phase
Phase (BK.RVRP.00.HNE- BK.RVRP.00.HHE)
Median: -0.001
L1 norm: 0.029

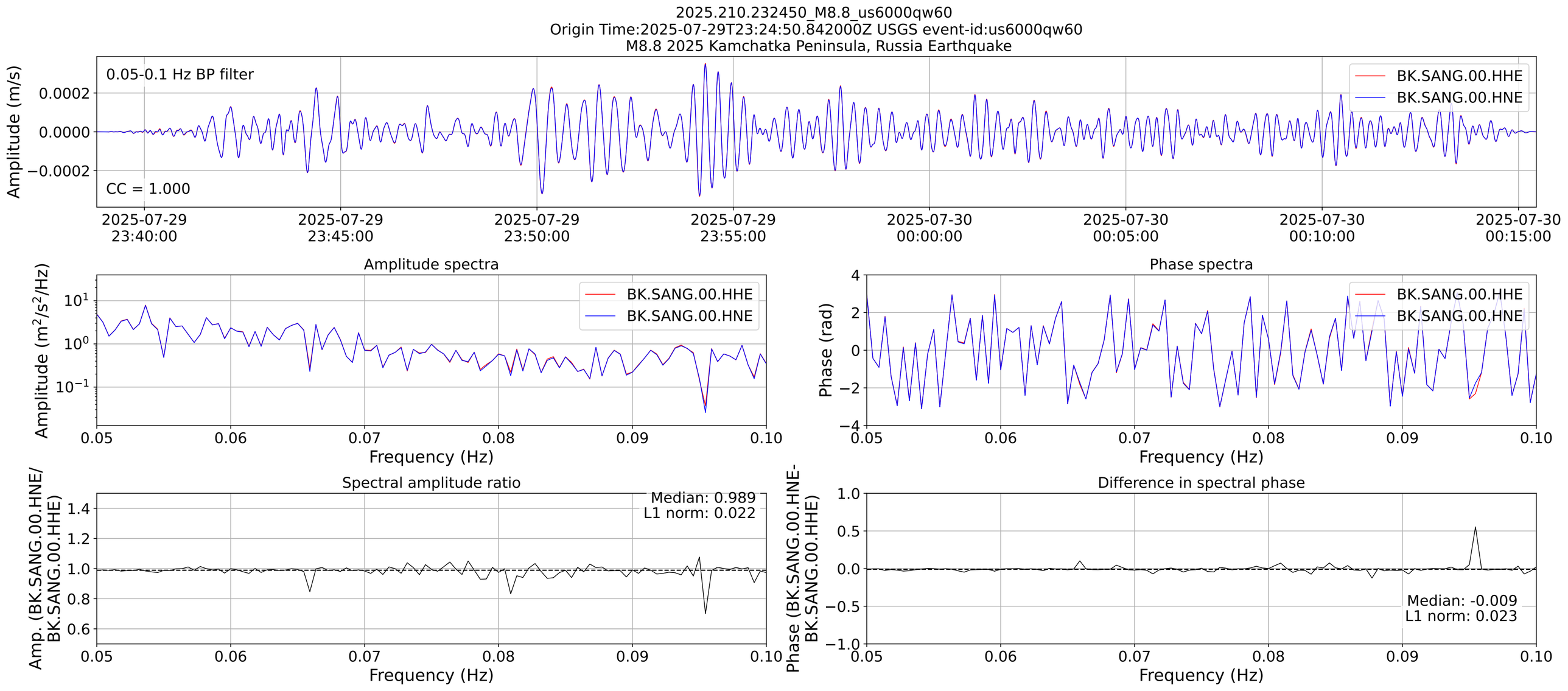

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.RVRP.00.HHN
BK.RVRP.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNN/ BK.RVRP.00.HHN)
Median: 1.001
L1 norm: 0.031
Difference in spectral phase
Phase (BK.RVRP.00.HNN- BK.RVRP.00.HHN)
Median: 0.001
L1 norm: 0.025

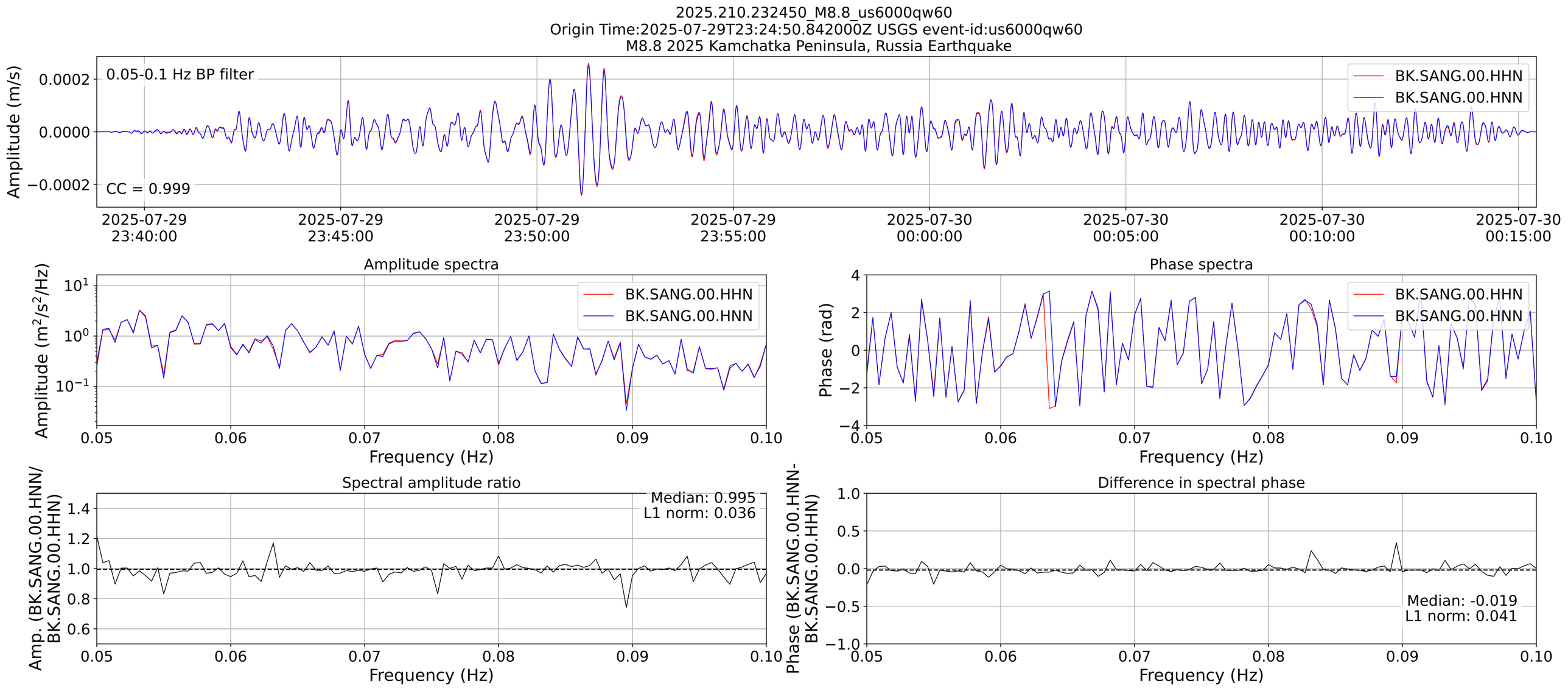

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.RVRP.00.HHZ
BK.RVRP.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNZ/ BK.RVRP.00.HHZ)
Median: 0.988
L1 norm: 0.017
Difference in spectral phase
Phase (BK.RVRP.00.HNZ- BK.RVRP.00.HHZ)
Median: -0.009
L1 norm: 0.020

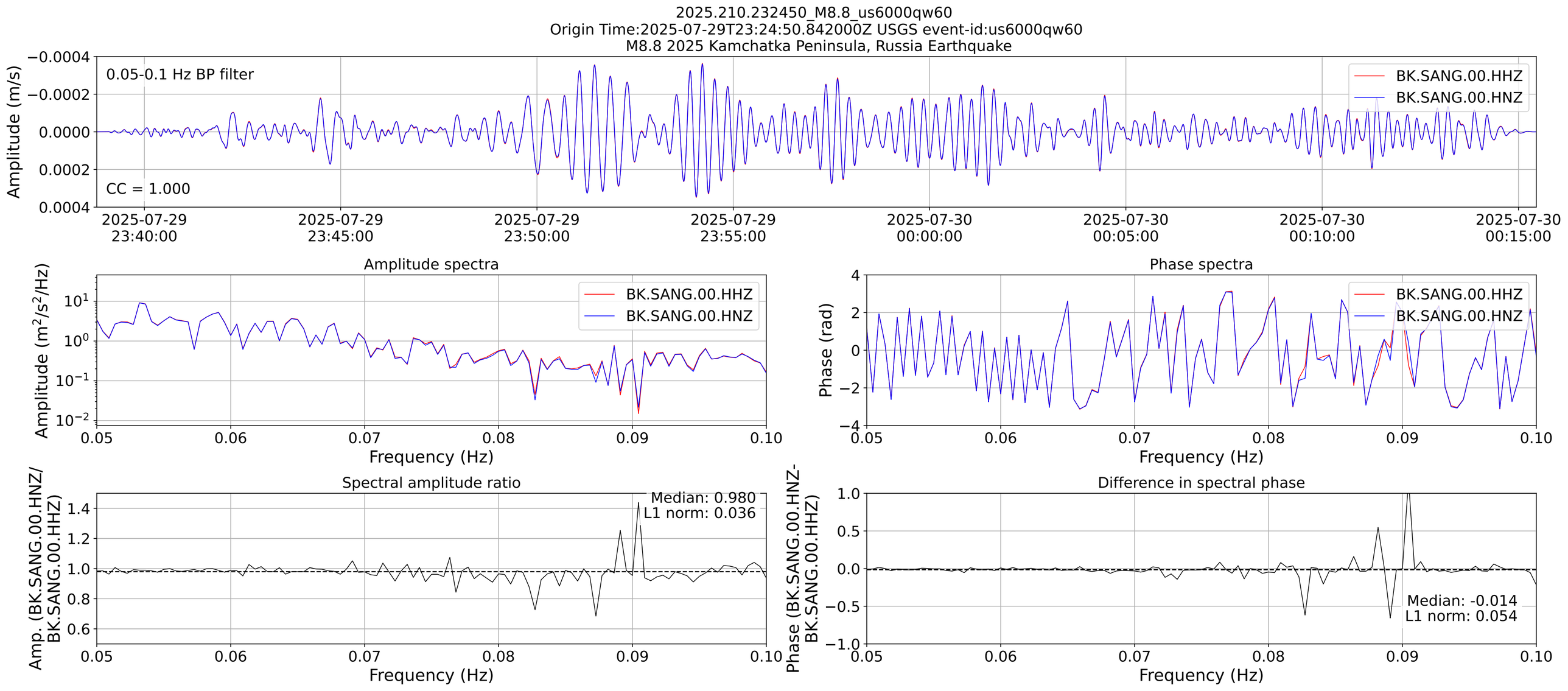

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SAGE.00.HHE
BK.SAGE.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNE/ BK.SAGE.00.HHE)
Median: 0.987
L1 norm: 0.034
Difference in spectral phase
Phase (BK.SAGE.00.HNE- BK.SAGE.00.HHE)
Median: -0.001
L1 norm: 0.038

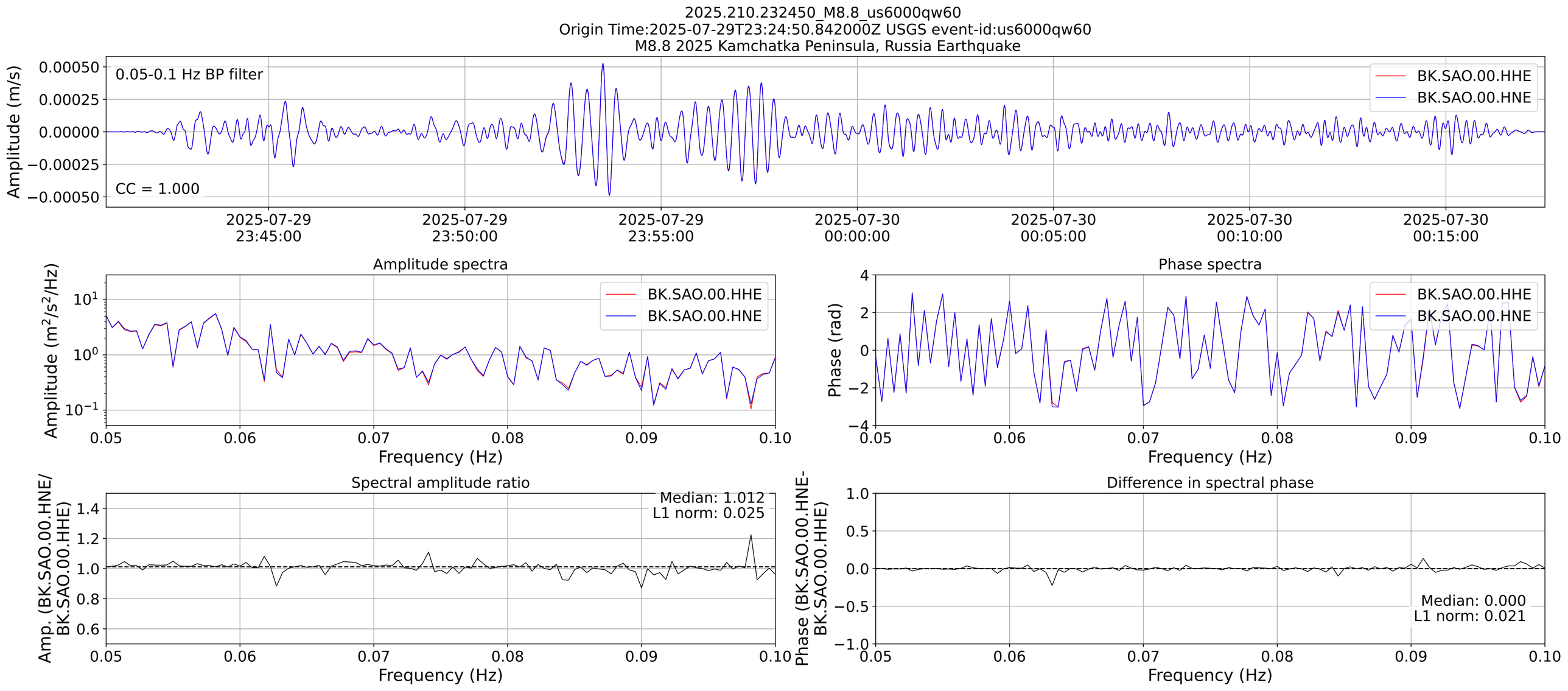

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.SAGE.00.HHN
BK.SAGE.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNN/ BK.SAGE.00.HHN)
Median: 1.001
L1 norm: 0.049
Difference in spectral phase
Phase (BK.SAGE.00.HNN- BK.SAGE.00.HHN)
Median: 0.011
L1 norm: 0.038

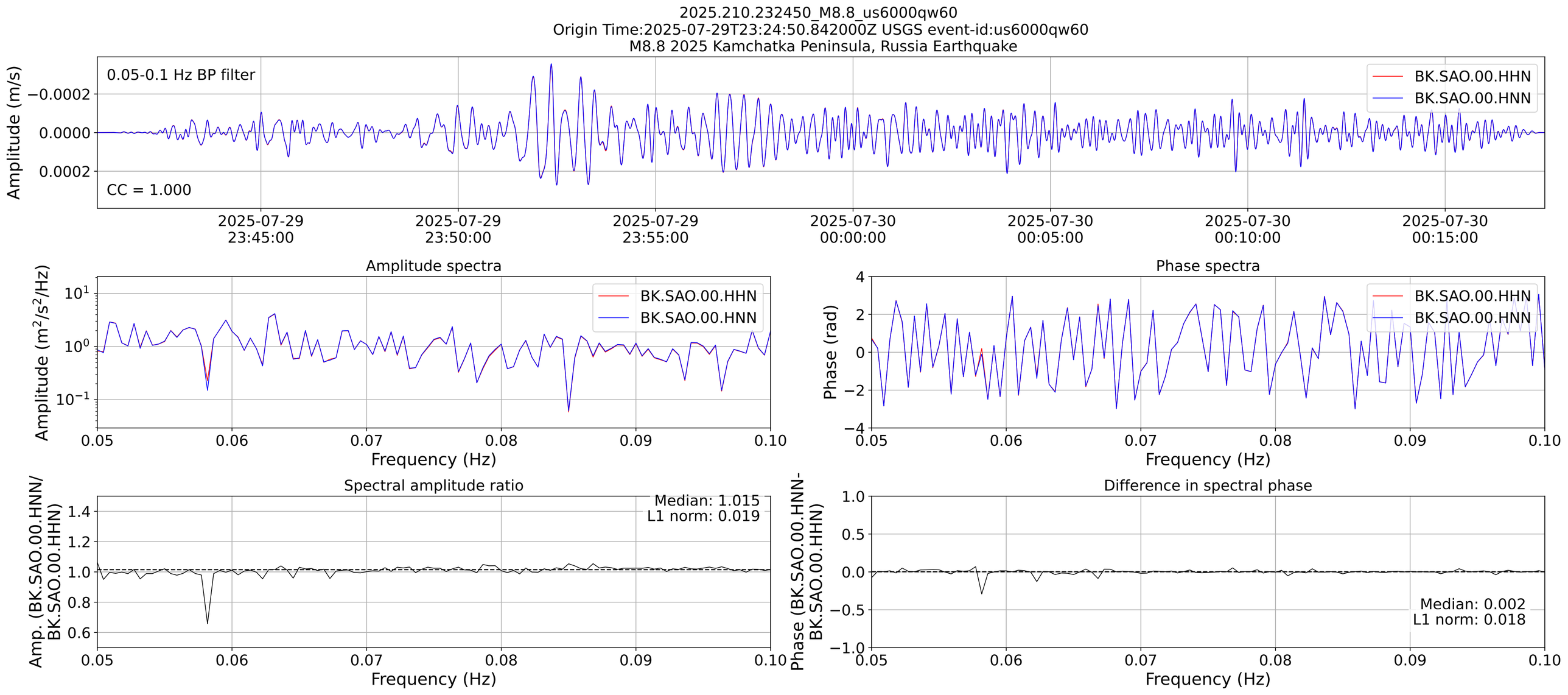

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SAGE.00.HHZ
BK.SAGE.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNZ/ BK.SAGE.00.HHZ)
Median: 0.984
L1 norm: 0.029
Difference in spectral phase
Phase (BK.SAGE.00.HNZ- BK.SAGE.00.HHZ)
Median: -0.006
L1 norm: 0.025

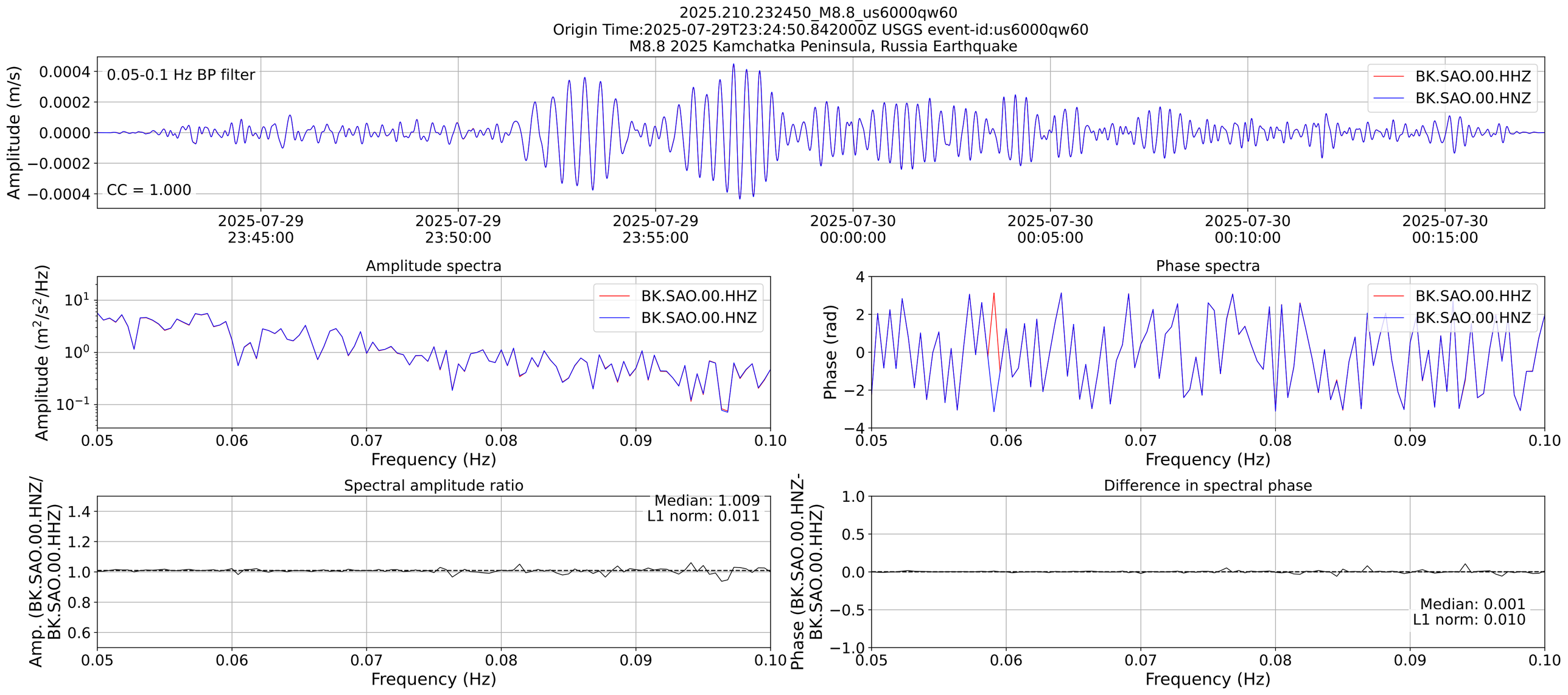

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SANG.00.HHE
BK.SANG.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNE/ BK.SANG.00.HHE)
Median: 0.989
L1 norm: 0.022
Difference in spectral phase
Phase (BK.SANG.00.HNE- BK.SANG.00.HHE)
Median: -0.009
L1 norm: 0.023

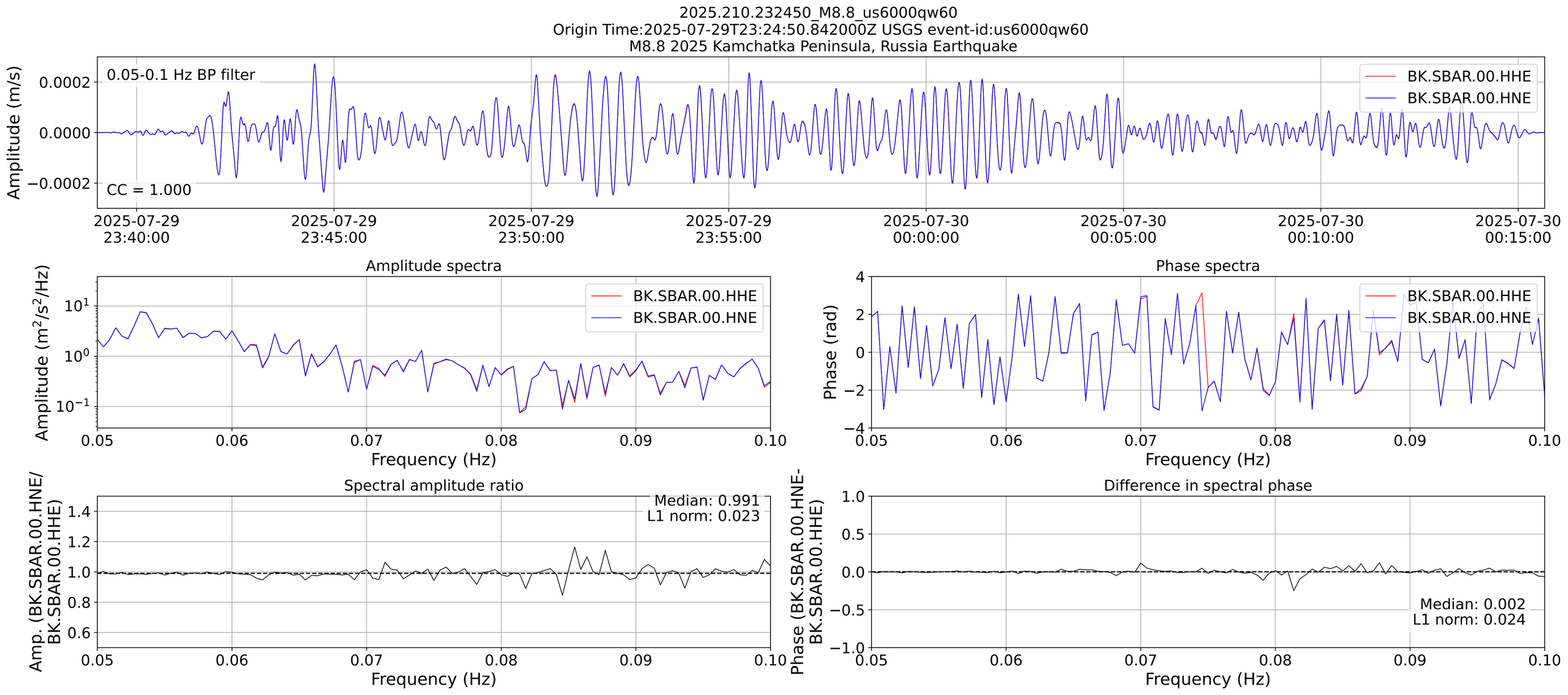

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SANG.00.HHN
BK.SANG.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNN/ BK.SANG.00.HHN)
Median: 0.995
L1 norm: 0.036
Difference in spectral phase
Phase (BK.SANG.00.HNN- BK.SANG.00.HHN)
Median: -0.019
L1 norm: 0.041

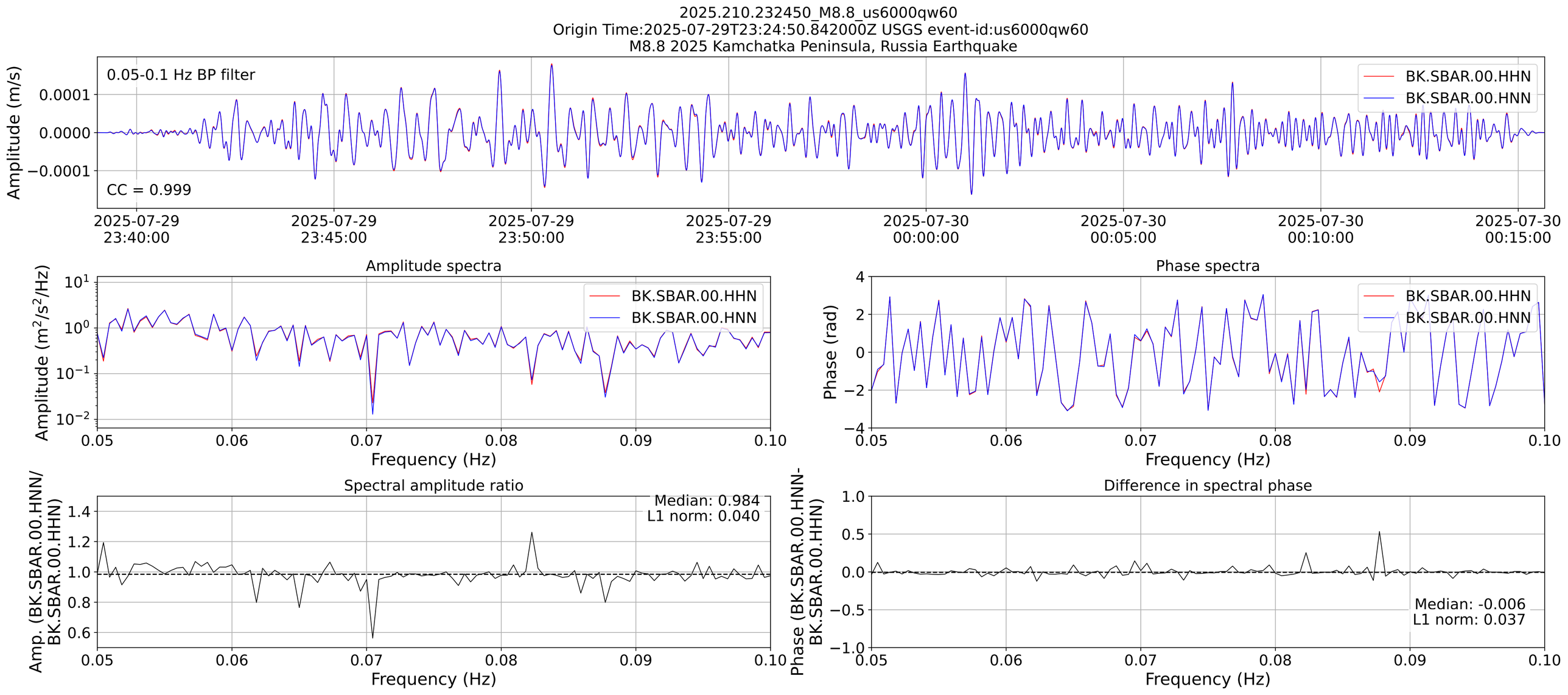

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SANG.00.HHZ
BK.SANG.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNZ/ BK.SANG.00.HHZ)
Median: 0.980
L1 norm: 0.036
Difference in spectral phase
Phase (BK.SANG.00.HNZ- BK.SANG.00.HHZ)
Median: -0.014
L1 norm: 0.054

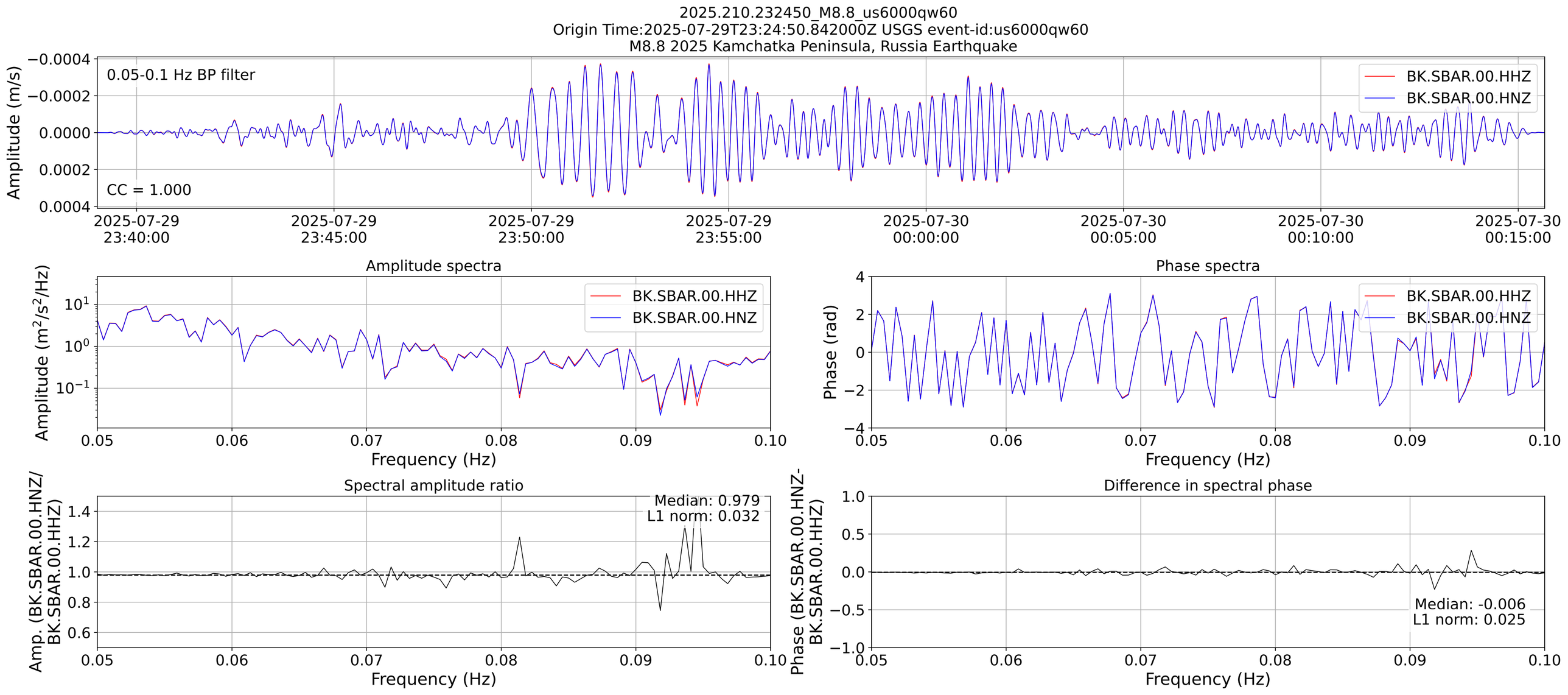

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SAO.00.HHE
BK.SAO.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNE/ BK.SAO.00.HHE)
Median: 1.012
L1 norm: 0.025
Difference in spectral phase
Phase (BK.SAO.00.HNE- BK.SAO.00.HHE)
Median: 0.000
L1 norm: 0.021

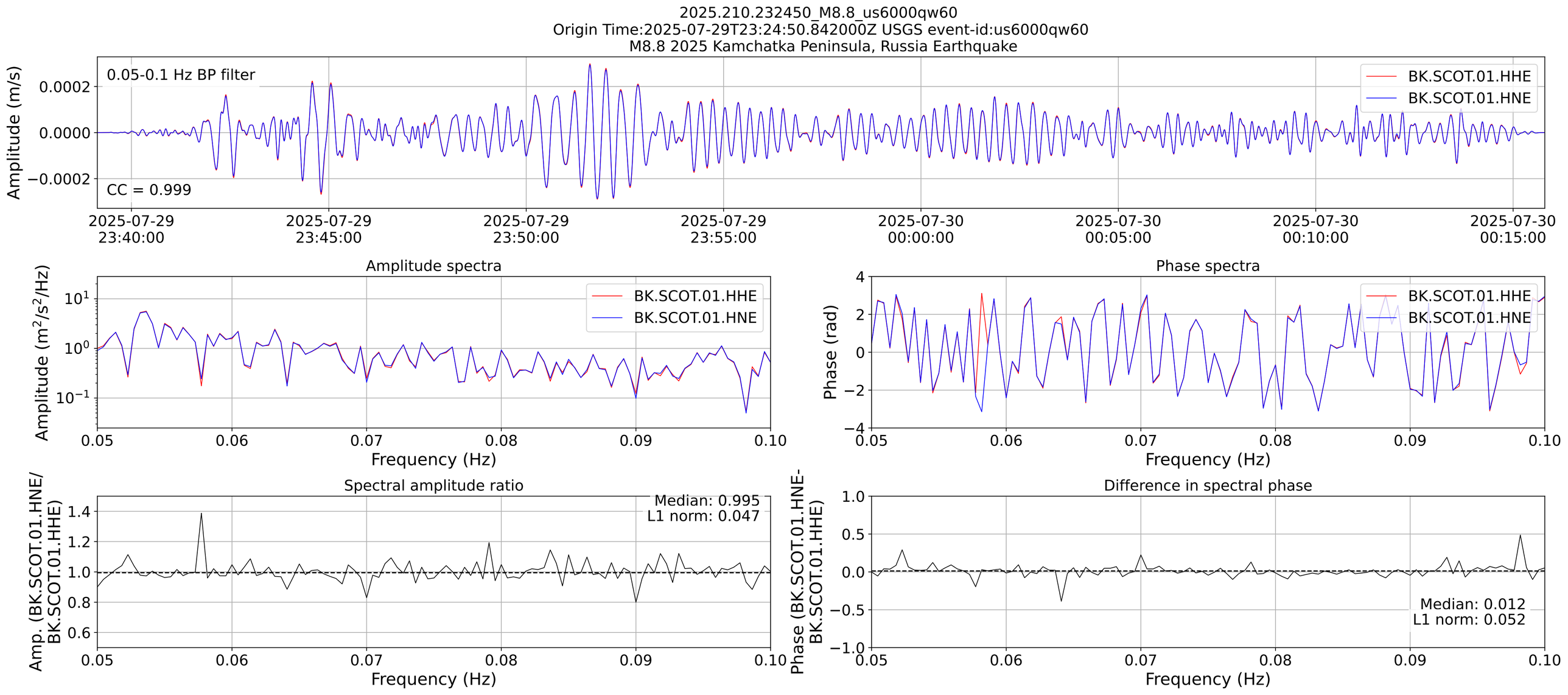

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SAO.00.HHN
BK.SAO.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNN/ BK.SAO.00.HHN)
Median: 1.015
L1 norm: 0.019
Difference in spectral phase
Phase (BK.SAO.00.HNN-BK.SAO.00.HHN)
Median: 0.002
L1 norm: 0.018

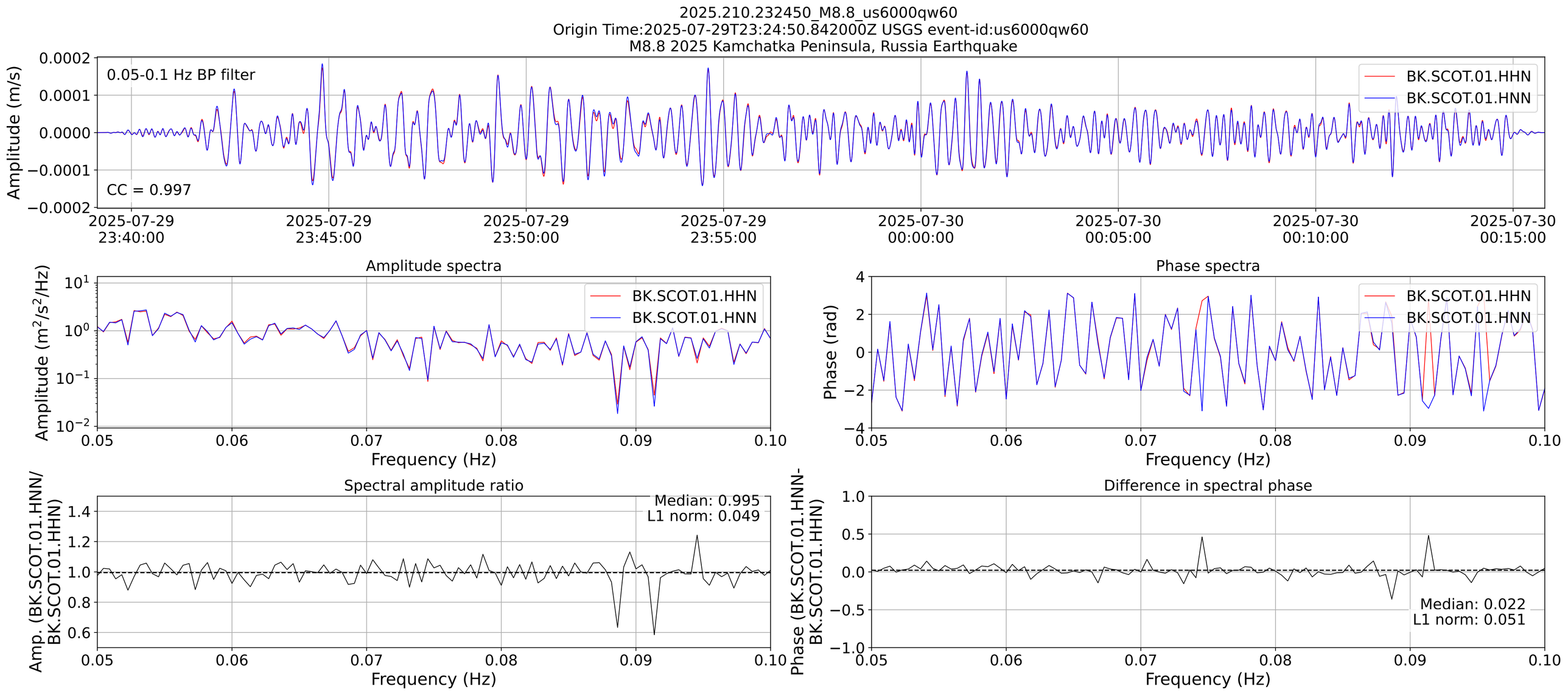

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SAO.00.HHZ
BK.SAO.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNZ/ BK.SAO.00.HHZ)
Median: 1.009
L1 norm: 0.011
Difference in spectral phase
Phase (BK.SAO.00.HNZ-BK.SAO.00.HHZ)
Median: 0.001
L1 norm: 0.010

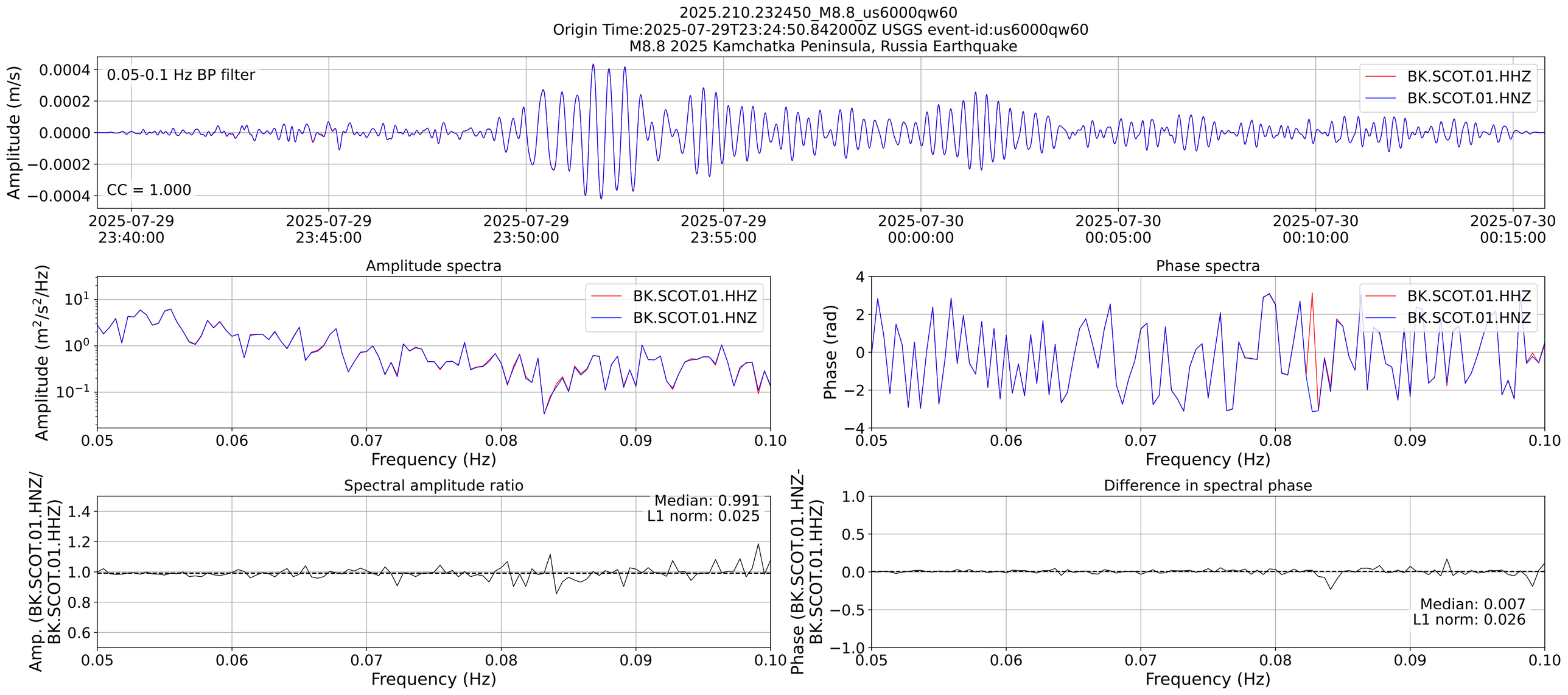

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SBAR.00.HHE
BK.SBAR.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNE/ BK.SBAR.00.HHE)
Median: 0.991
L1 norm: 0.023
Difference in spectral phase
Phase (BK.SBAR.00.HNE- BK.SBAR.00.HHE)
Median: 0.002
L1 norm: 0.024

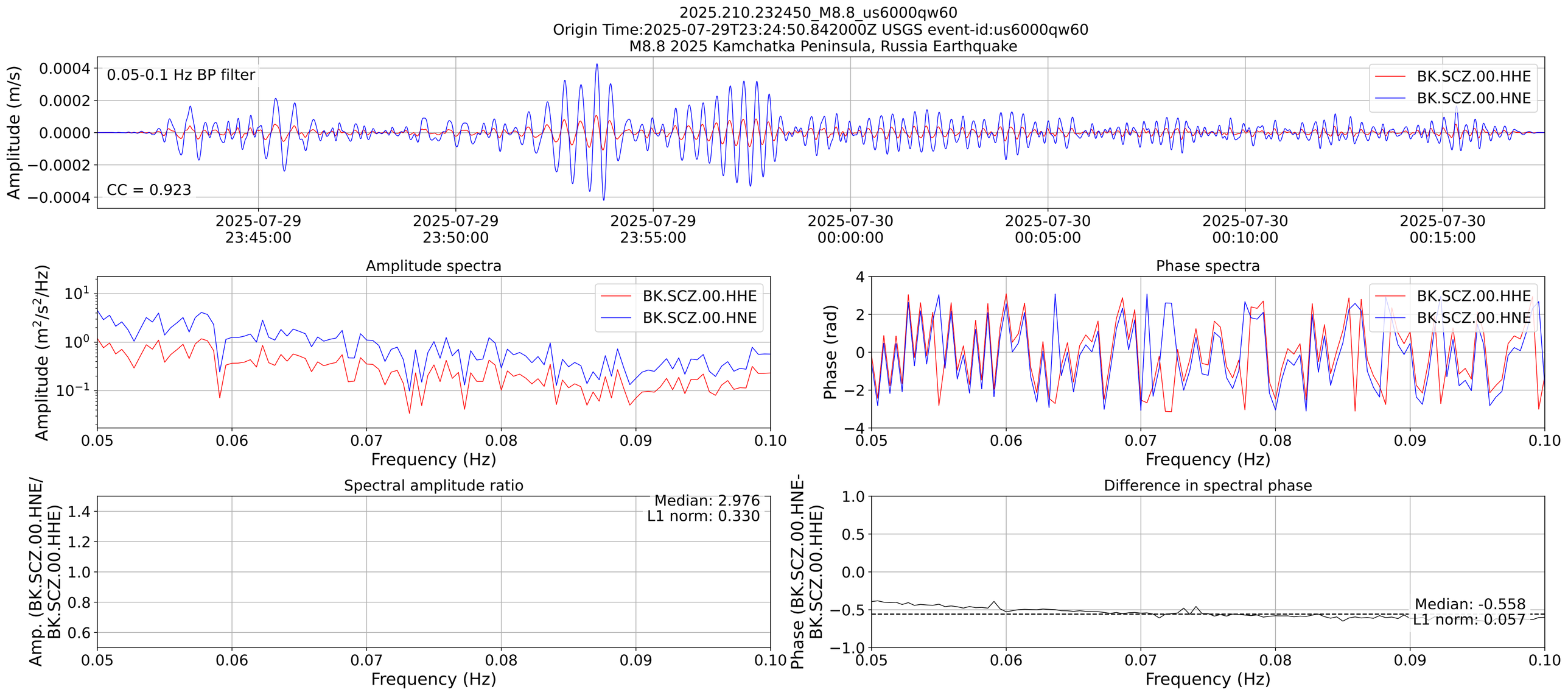

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SBAR.00.HHN
BK.SBAR.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNN/ BK.SBAR.00.HHN)
Median: 0.984
L1 norm: 0.040
Difference in spectral phase
Phase (BK.SBAR.00.HNN- BK.SBAR.00.HHN)
Median: -0.006
L1 norm: 0.037

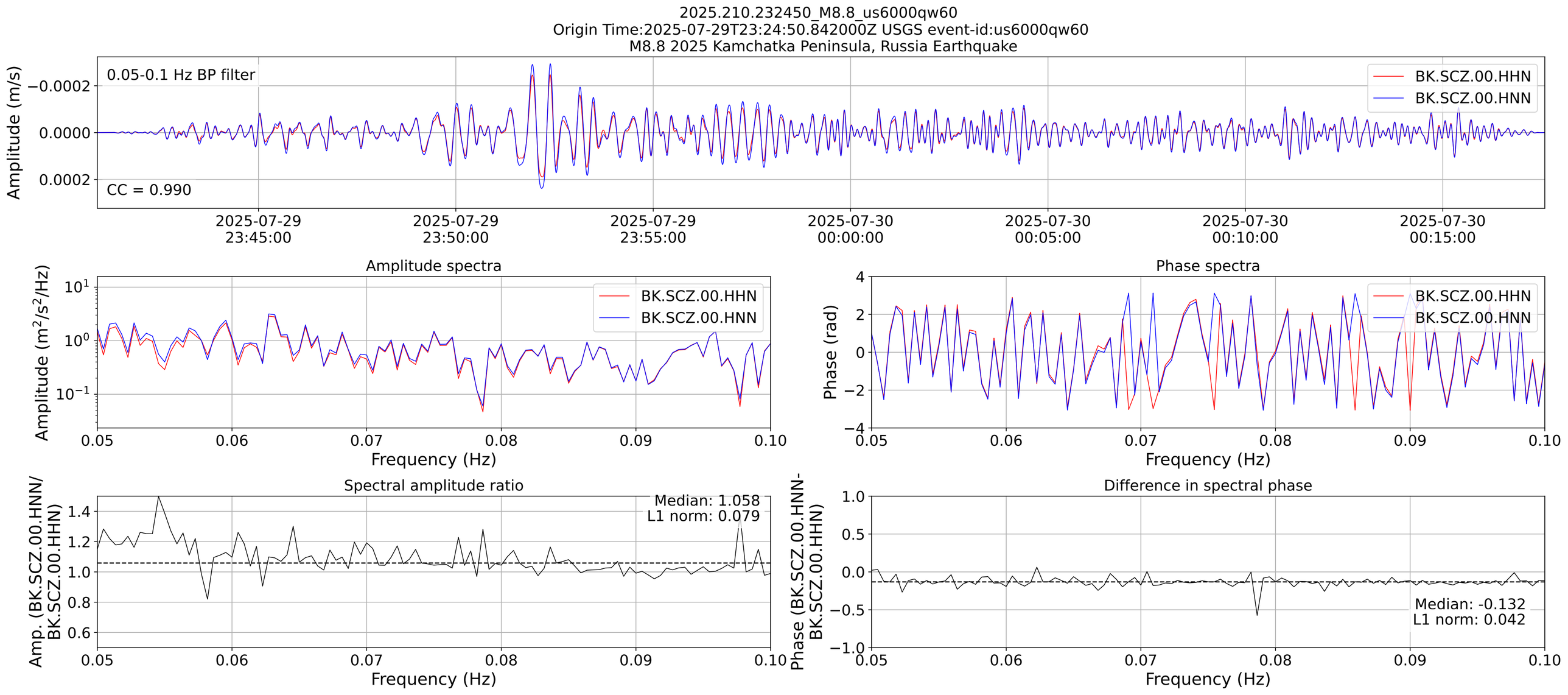

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SBAR.00.HHZ
BK.SBAR.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNZ/ BK.SBAR.00.HHZ)
Median: 0.979
L1 norm: 0.032
Difference in spectral phase
Phase (BK.SBAR.00.HNZ- BK.SBAR.00.HHZ)
Median: -0.006
L1 norm: 0.025

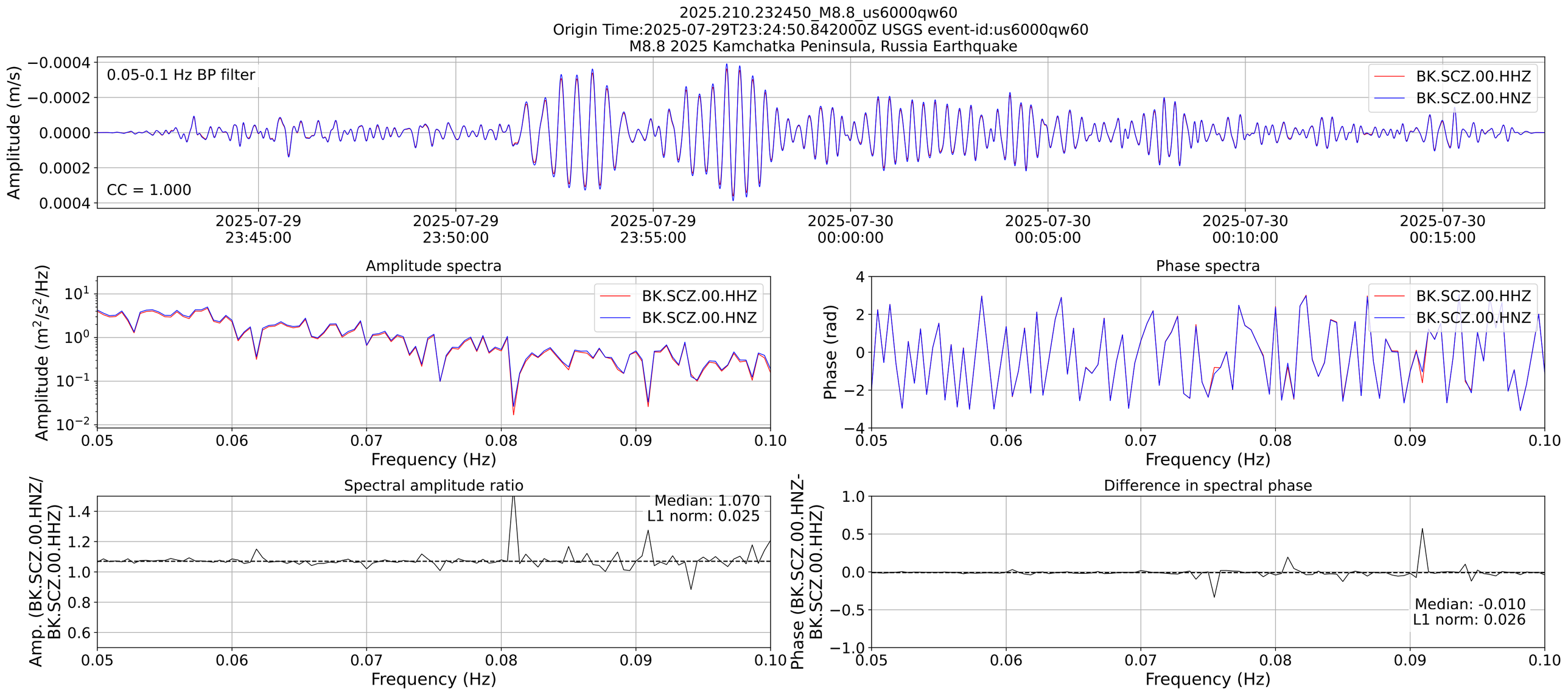

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SCOT.01.HHE
BK.SCOT.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNE/ BK.SCOT.01.HHE)
Median: 0.995
L1 norm: 0.047
Difference in spectral phase
Phase (BK.SCOT.01.HNE- BK.SCOT.01.HHE)
Median: 0.012
L1 norm: 0.052

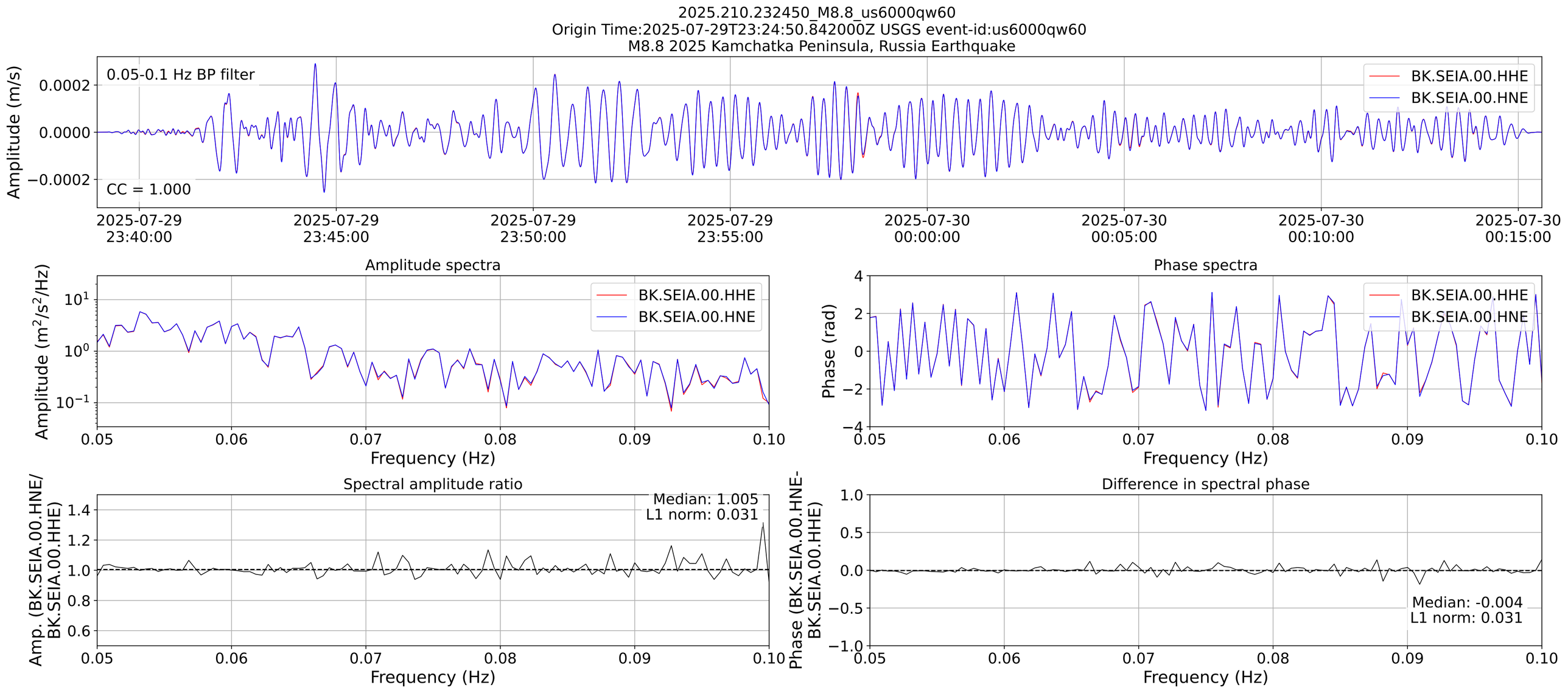

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.SCOT.01.HHN
BK.SCOT.01.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNN/ BK.SCOT.01.HHN)
Median: 0.995
L1 norm: 0.049
Difference in spectral phase
Phase (BK.SCOT.01.HNN- BK.SCOT.01.HHN)
Median: 0.022
L1 norm: 0.051

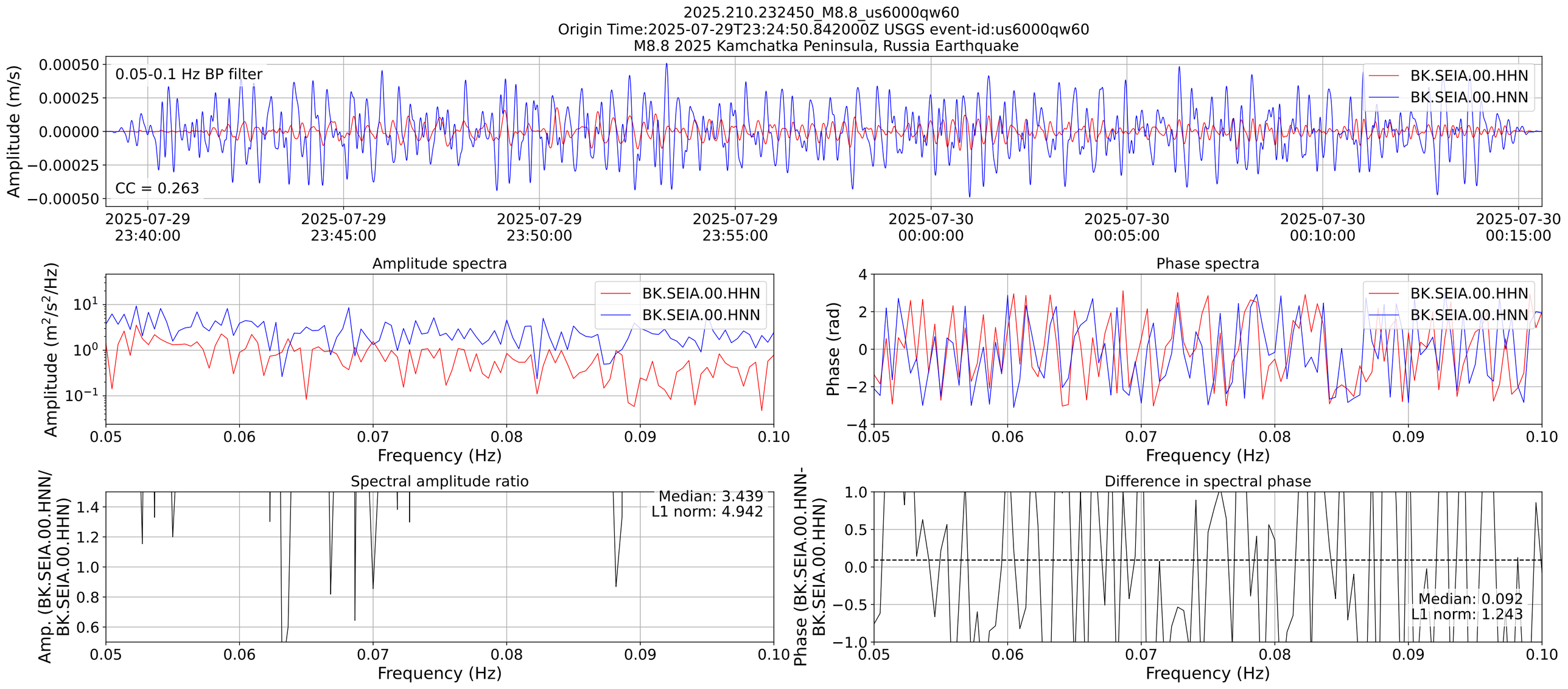

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SCOT.01.HHZ
BK.SCOT.01.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNZ/ BK.SCOT.01.HHZ)
Median: 0.991
L1 norm: 0.025
Difference in spectral phase
Phase (BK.SCOT.01.HNZ- BK.SCOT.01.HHZ)
Median: 0.007
L1 norm: 0.026

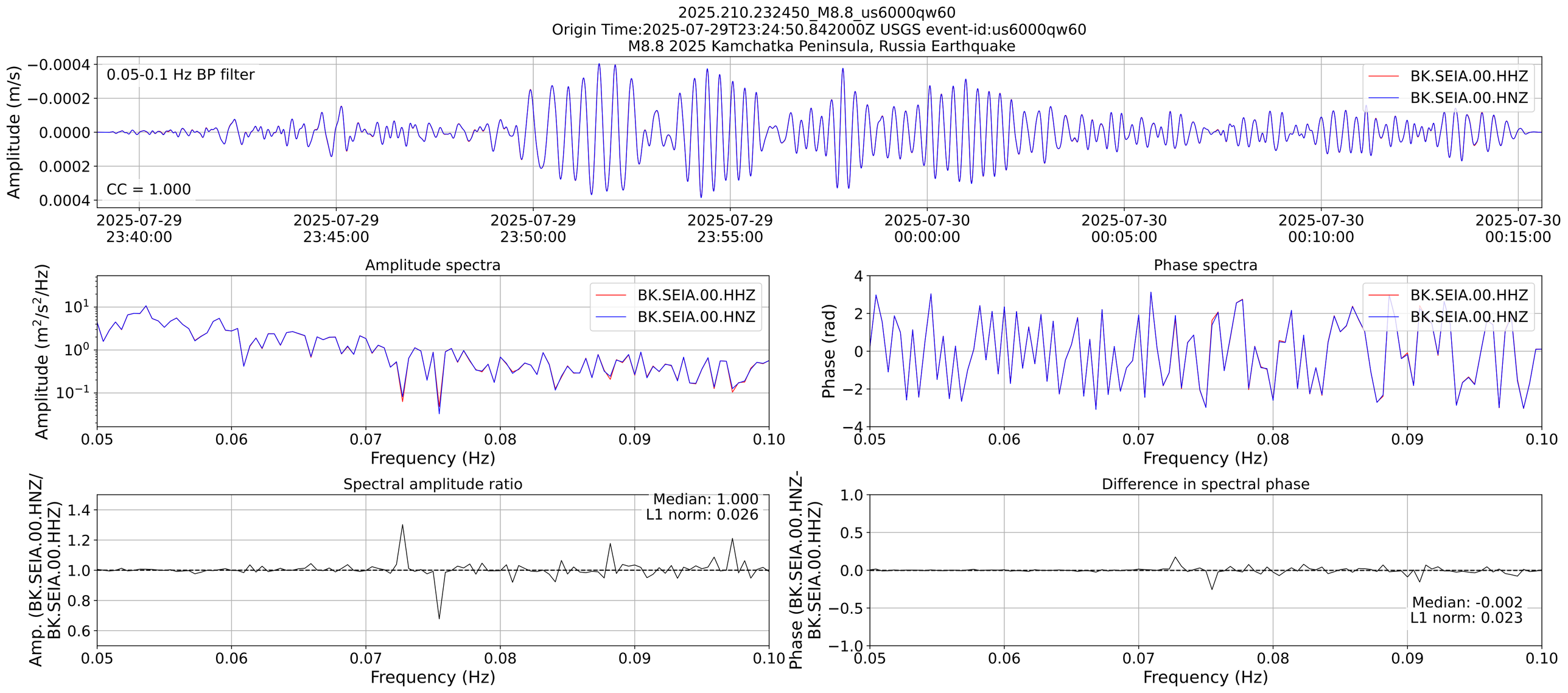

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.923
BK.SCZ.00.HHE
BK.SCZ.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNE/ BK.SCZ.00.HHE)
Median: 2.976
L1 norm: 0.330
Difference in spectral phase
Phase (BK.SCZ.00.HNE- BK.SCZ.00.HHE)
Median: -0.558
L1 norm: 0.057

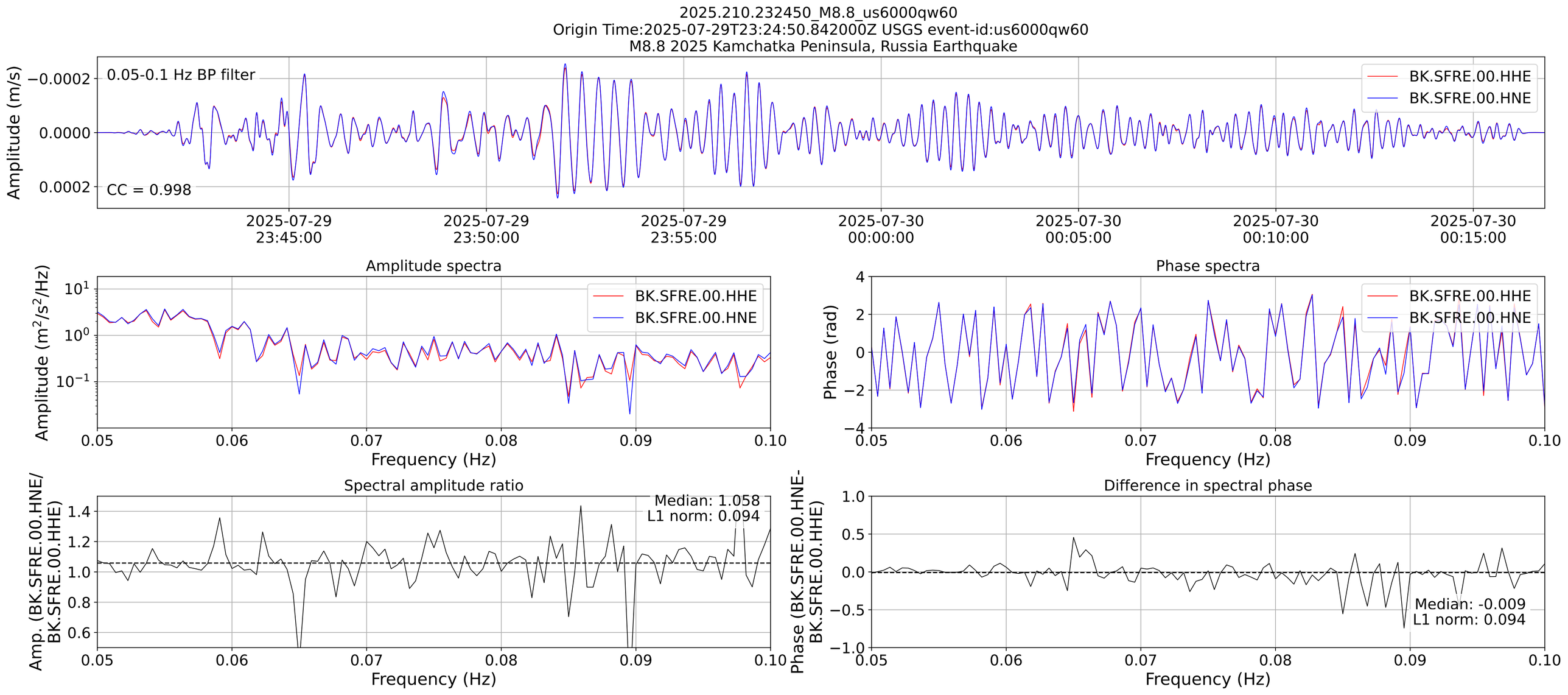

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.990
BK.SCZ.00.HHN
BK.SCZ.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNN/ BK.SCZ.00.HHN)
Median: 1.058
L1 norm: 0.079
Difference in spectral phase
Phase (BK.SCZ.00.HNN-BK.SCZ.00.HHN)
Median: -0.132
L1 norm: 0.042

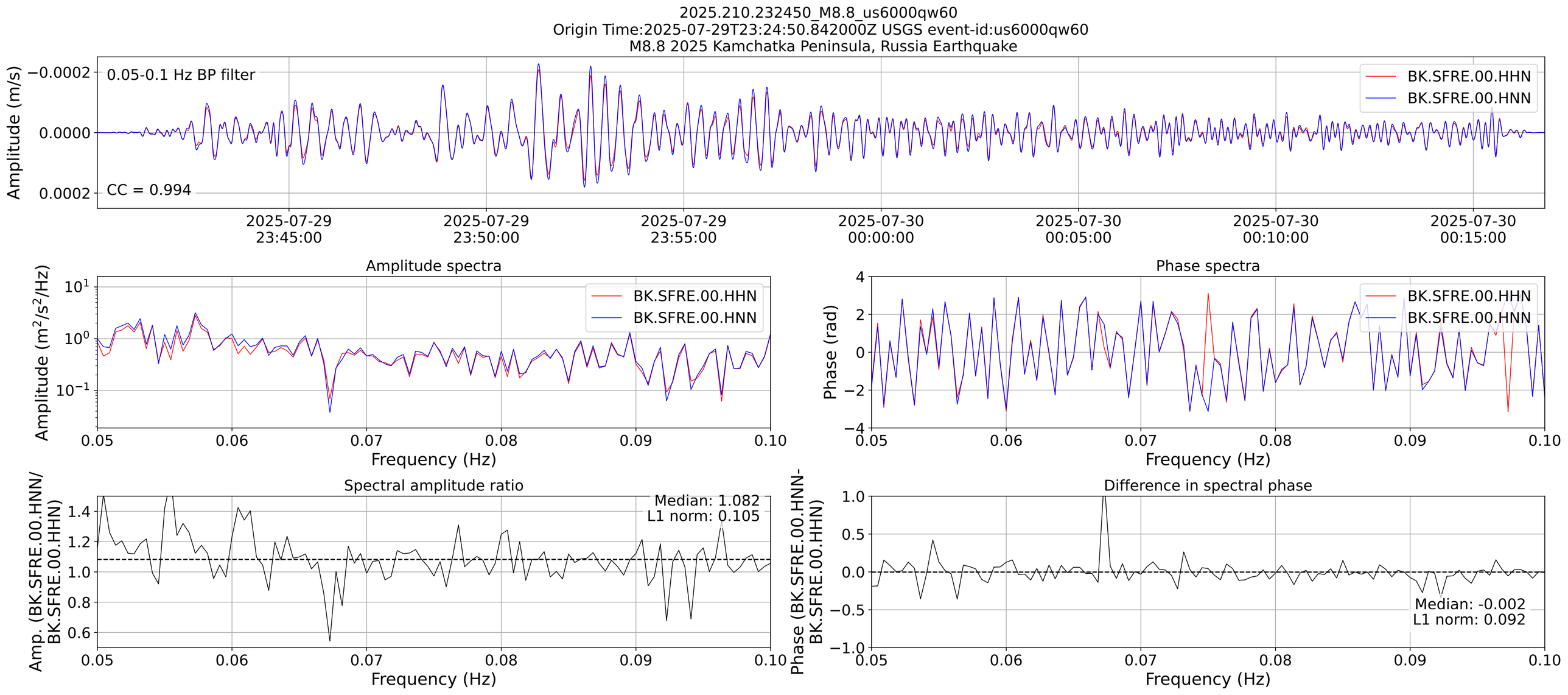

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SCZ.00.HHZ
BK.SCZ.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNZ/ BK.SCZ.00.HHZ)
Median: 1.070
L1 norm: 0.025
Difference in spectral phase
Phase (BK.SCZ.00.HNZ-BK.SCZ.00.HHZ)
Median: -0.010
L1 norm: 0.026

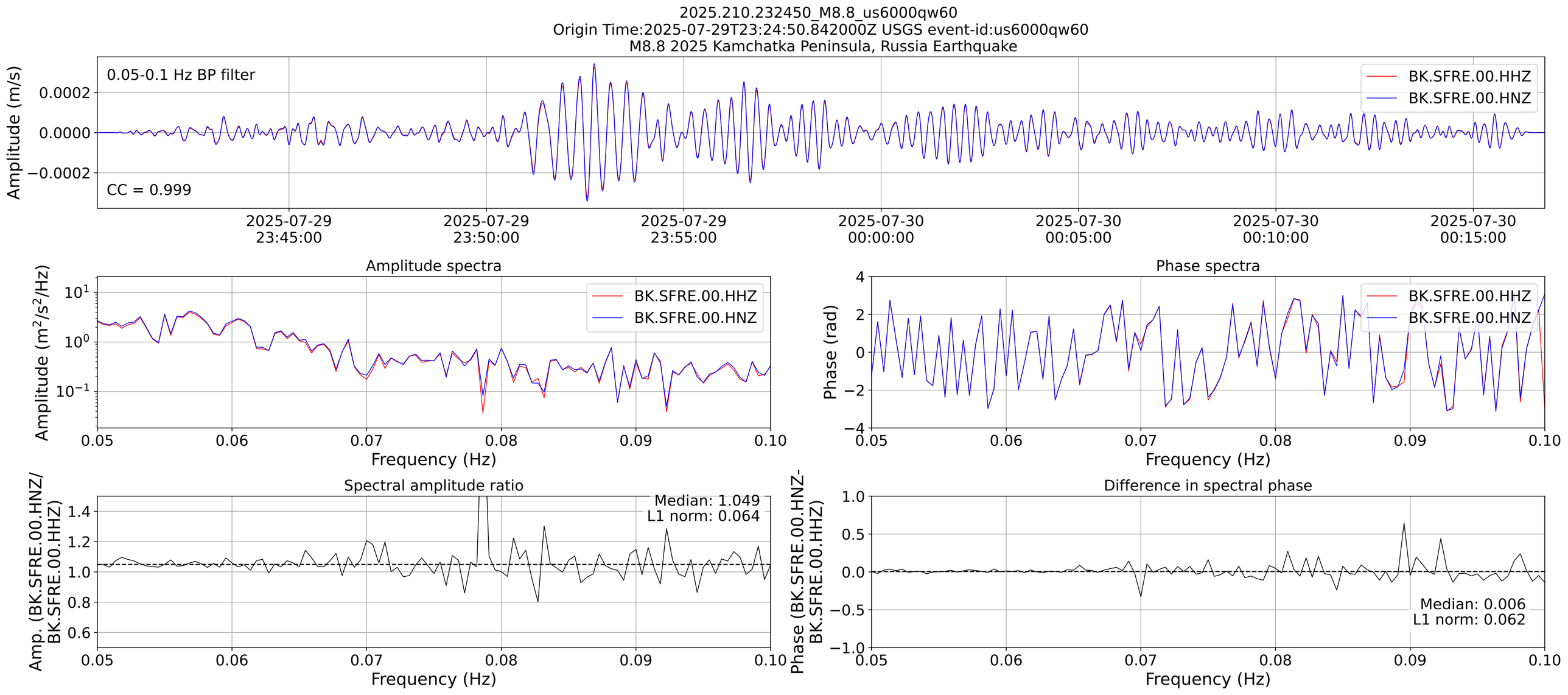

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SEIA.00.HHE
BK.SEIA.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HNE/ BK.SEIA.00.HHE)
Median: 1.005
L1 norm: 0.031
Difference in spectral phase
Phase (BK.SEIA.00.HNE- BK.SEIA.00.HHE)
Median: -0.004
L1 norm: 0.031

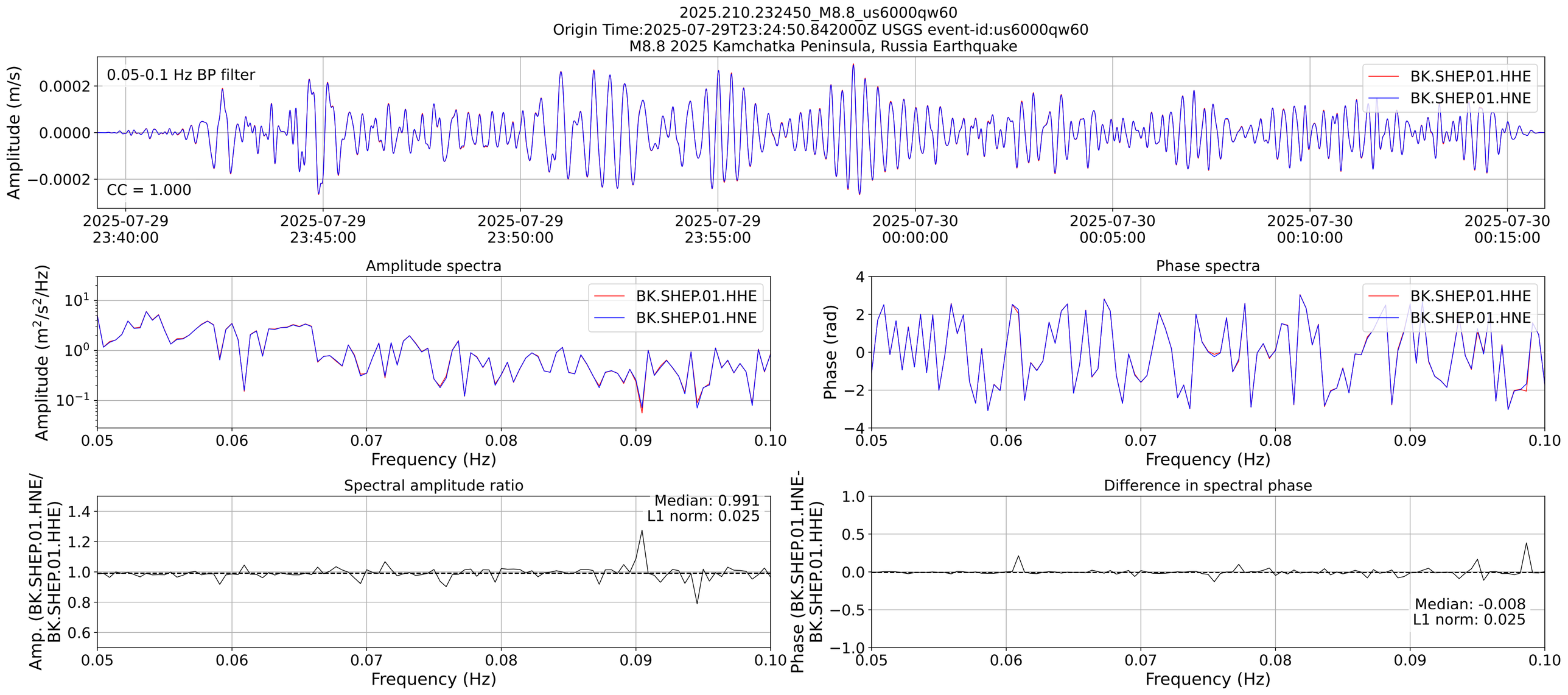

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.263
BK.SEIA.00.HHN
BK.SEIA.00.HHE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HHN/ BK.SEIA.00.HHN)
Median: 3.439
L1 norm: 4.942
Difference in spectral phase
Phase (BK.SEIA.00.HHN-BK.SEIA.00.HHN)
Median: 0.092
L1 norm: 1.243
Frequency (Hz)

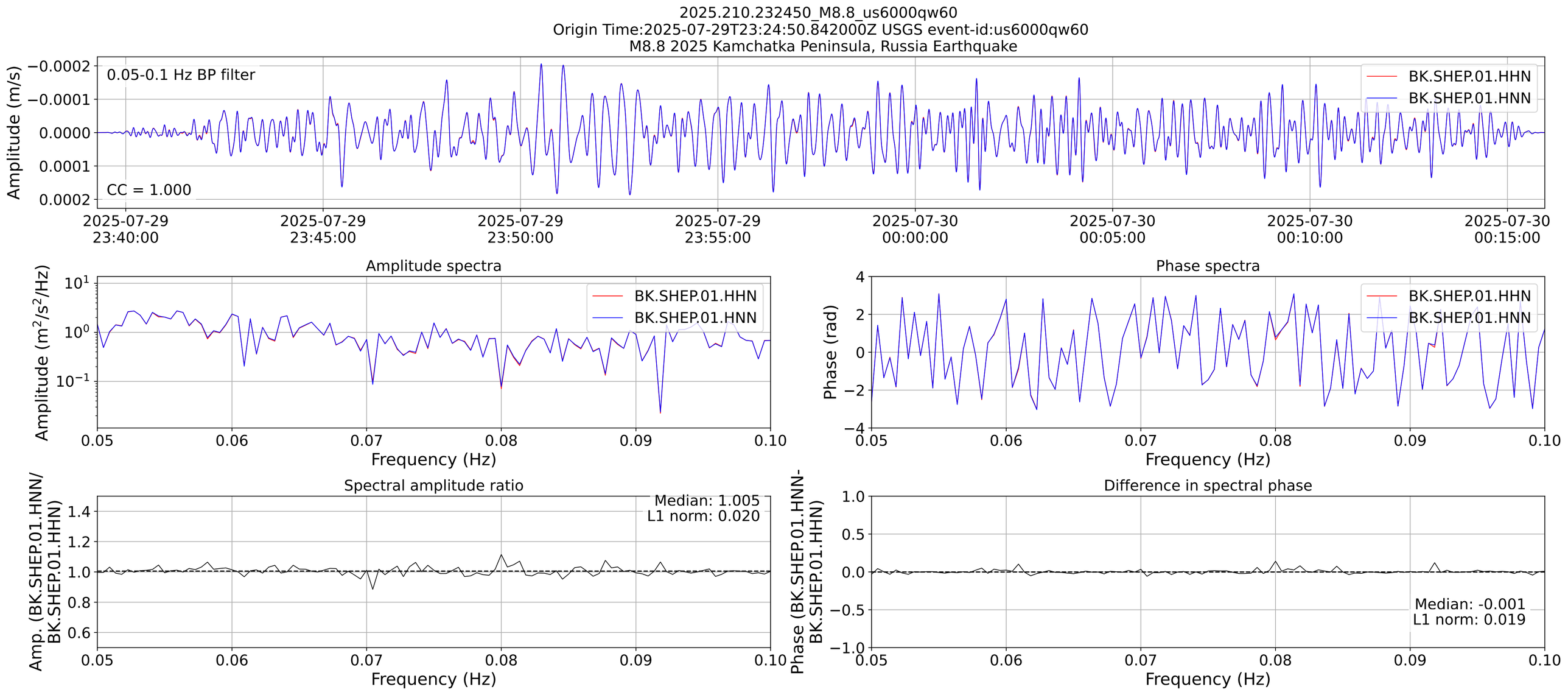

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SEIA.00.HHZ
BK.SEIA.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HNZ/ BK.SEIA.00.HHZ)
Median: 1.000
L1 norm: 0.026
Difference in spectral phase
Phase (BK.SEIA.00.HNZ- BK.SEIA.00.HHZ)
Median: -0.002
L1 norm: 0.023

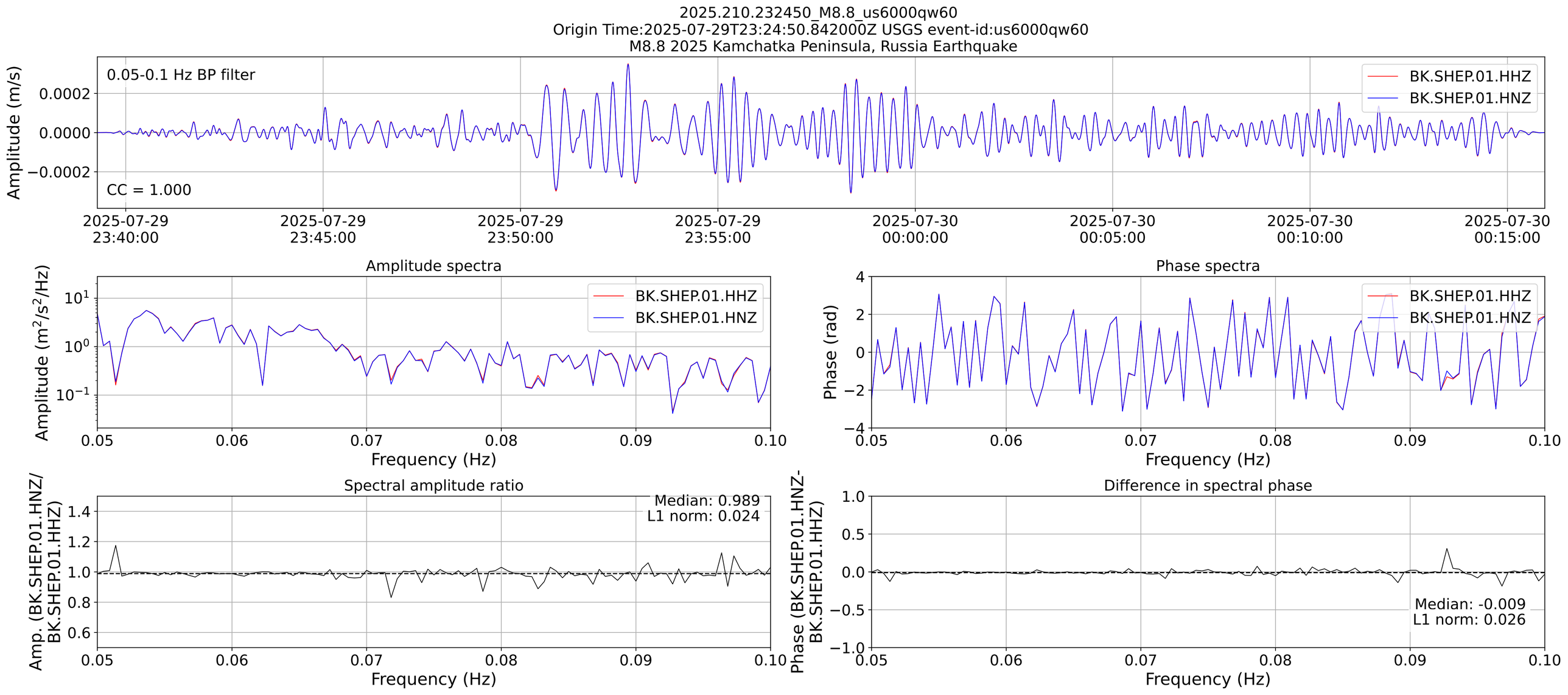

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.SFRE.00.HHE
BK.SFRE.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNE/ BK.SFRE.00.HHE)
Median: 1.058
L1 norm: 0.094
Difference in spectral phase
Phase (BK.SFRE.00.HNE- BK.SFRE.00.HHE)
Median: -0.009
L1 norm: 0.094

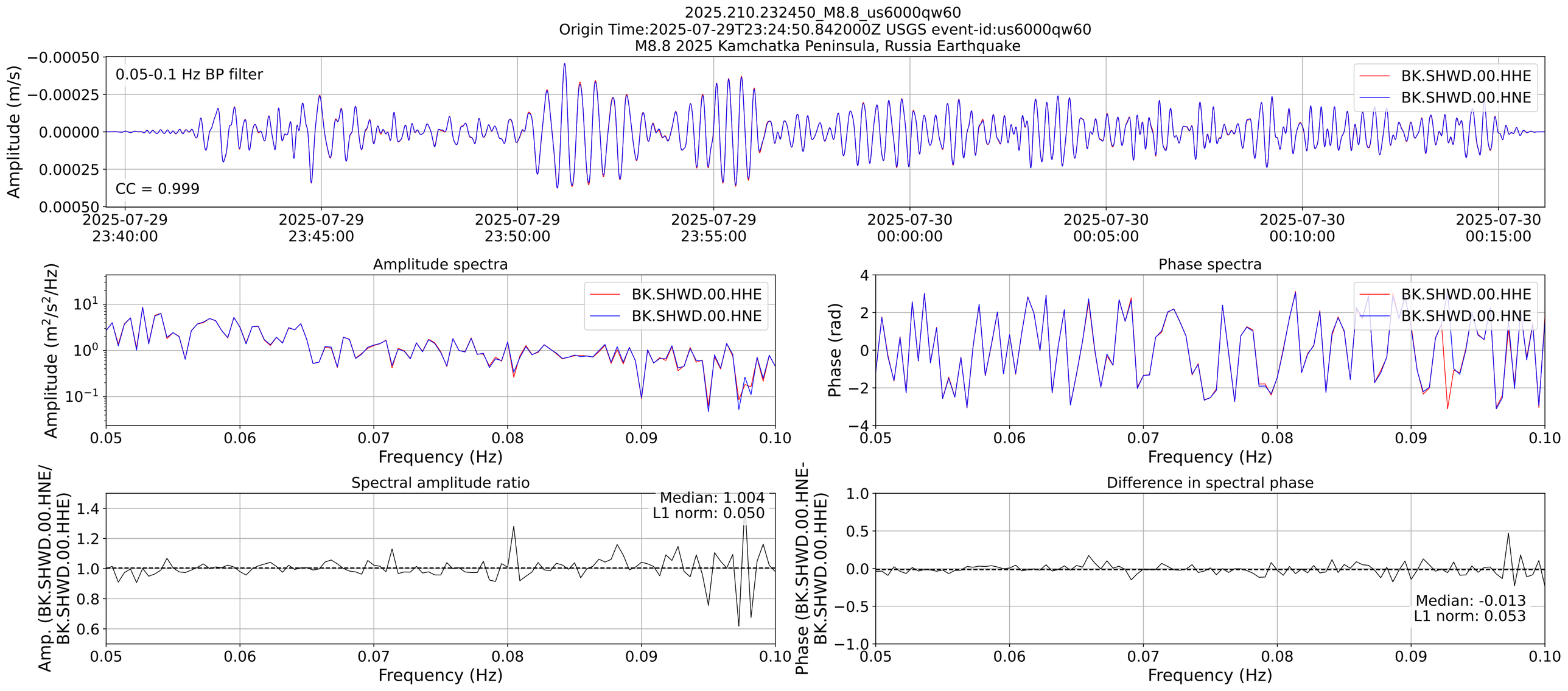

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
BK.SFRE.00.HHN
BK.SFRE.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNN/ BK.SFRE.00.HHN)
Median: 1.082
L1 norm: 0.105
Difference in spectral phase
Phase (BK.SFRE.00.HNN- BK.SFRE.00.HHN)
Median: -0.002
L1 norm: 0.092

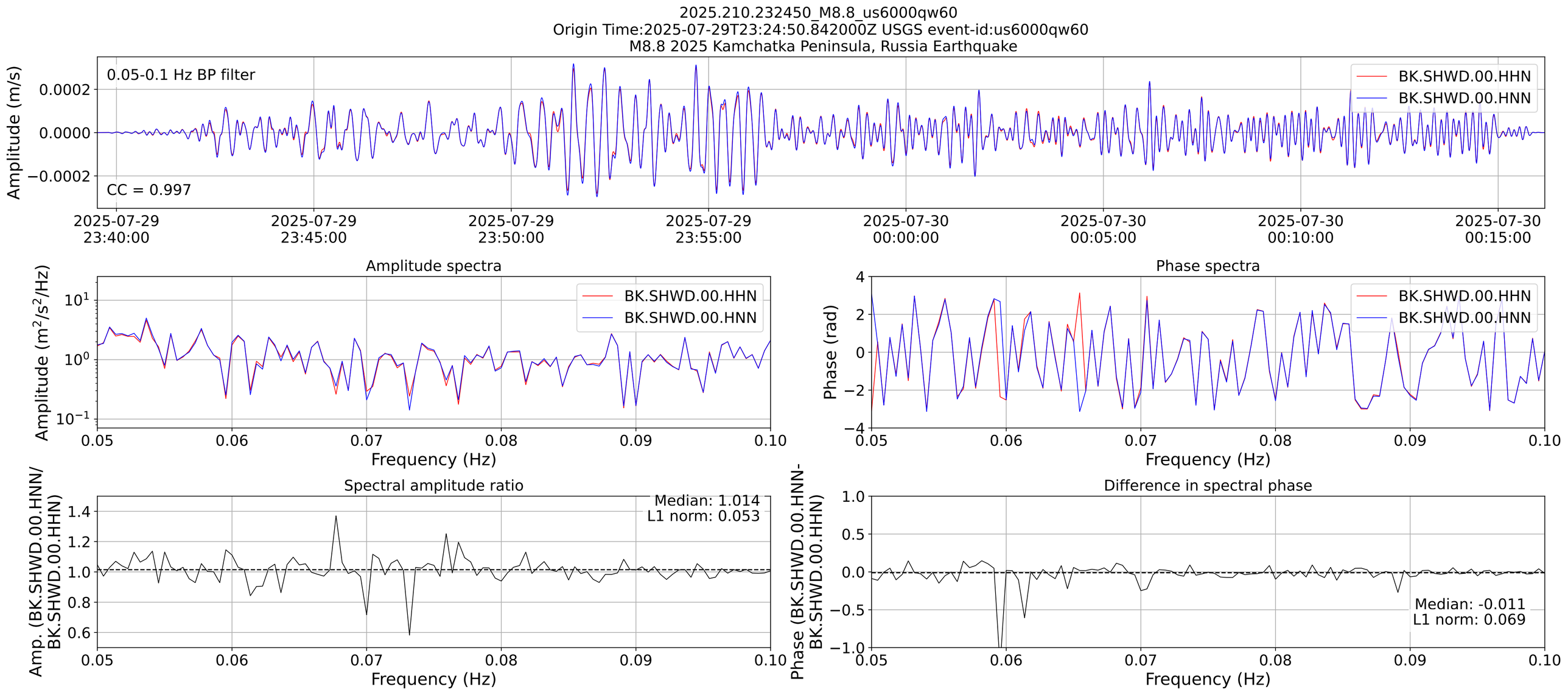

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SFRE.00.HHZ
BK.SFRE.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNZ/ BK.SFRE.00.HHZ)
Median: 1.049
L1 norm: 0.064
Difference in spectral phase
Phase (BK.SFRE.00.HNZ-BK.SFRE.00.HHZ)
Median: 0.006
L1 norm: 0.062

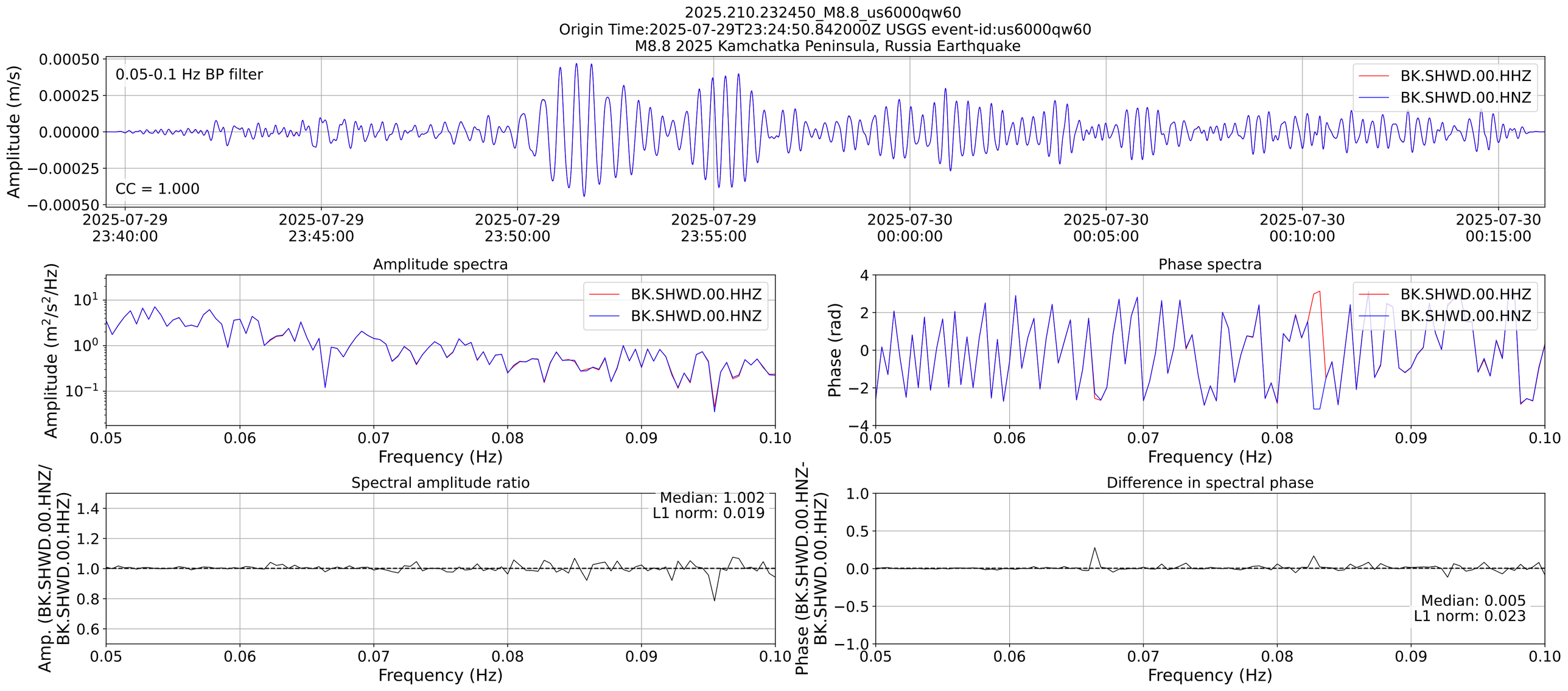

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SHEP.01.HHE
BK.SHEP.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNE/ BK.SHEP.01.HHE)
Median: 0.991
L1 norm: 0.025
Difference in spectral phase
Phase (BK.SHEP.01.HNE- BK.SHEP.01.HHE)
Median: -0.008
L1 norm: 0.025

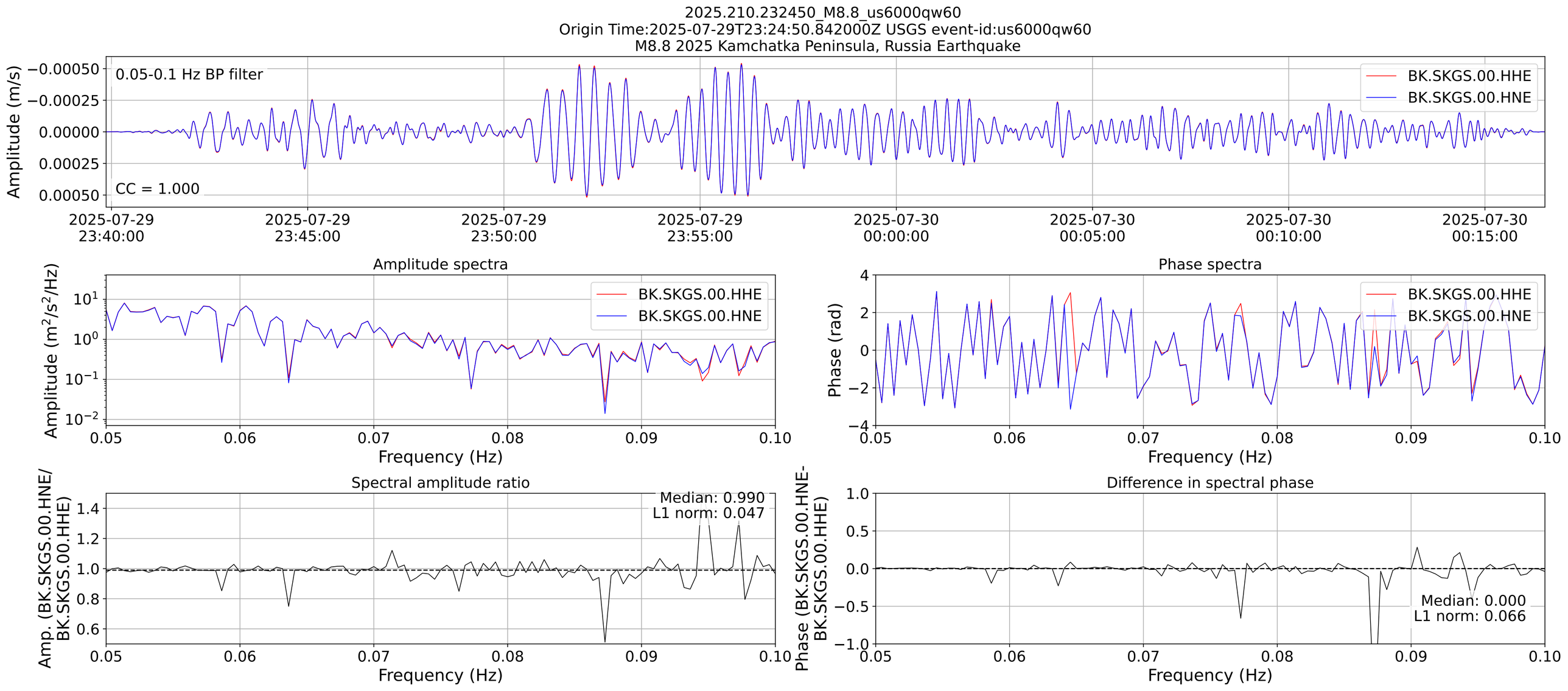

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SHEP.01.HHN
BK.SHEP.01.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNN/ BK.SHEP.01.HHN)
Median: 1.005
L1 norm: 0.020
Difference in spectral phase
Phase (BK.SHEP.01.HNN- BK.SHEP.01.HHN)
Median: -0.001
L1 norm: 0.019

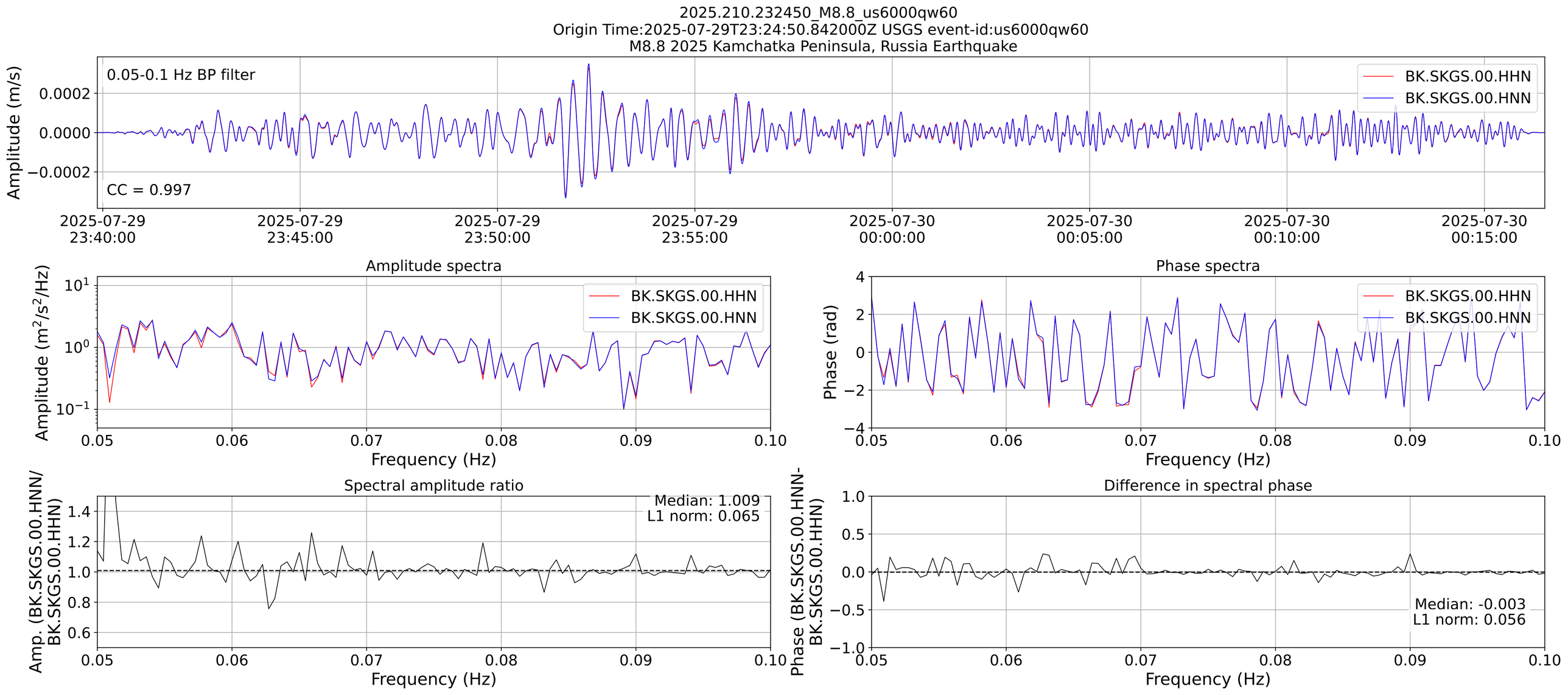

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SHEP.01.HHZ
BK.SHEP.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNZ/ BK.SHEP.01.HHZ)
Median: 0.989
L1 norm: 0.024
Difference in spectral phase
Phase (BK.SHEP.01.HNZ-BK.SHEP.01.HHZ)
Median: -0.009
L1 norm: 0.026

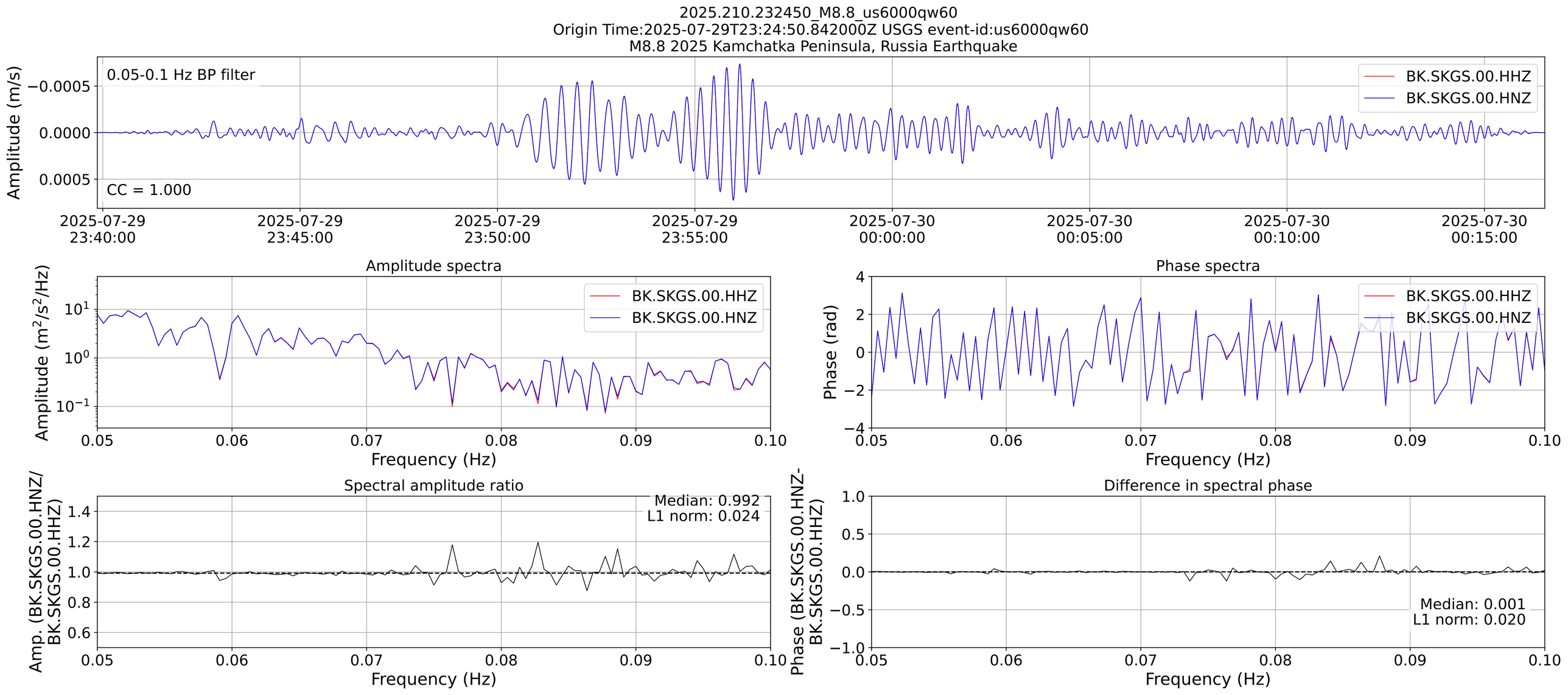

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SHWD.00.HHE
BK.SHWD.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNE/ BK.SHWD.00.HHE)
Median: 1.004
L1 norm: 0.050
Difference in spectral phase
Phase (BK.SHWD.00.HNE- BK.SHWD.00.HHE)
Median: -0.013
L1 norm: 0.053

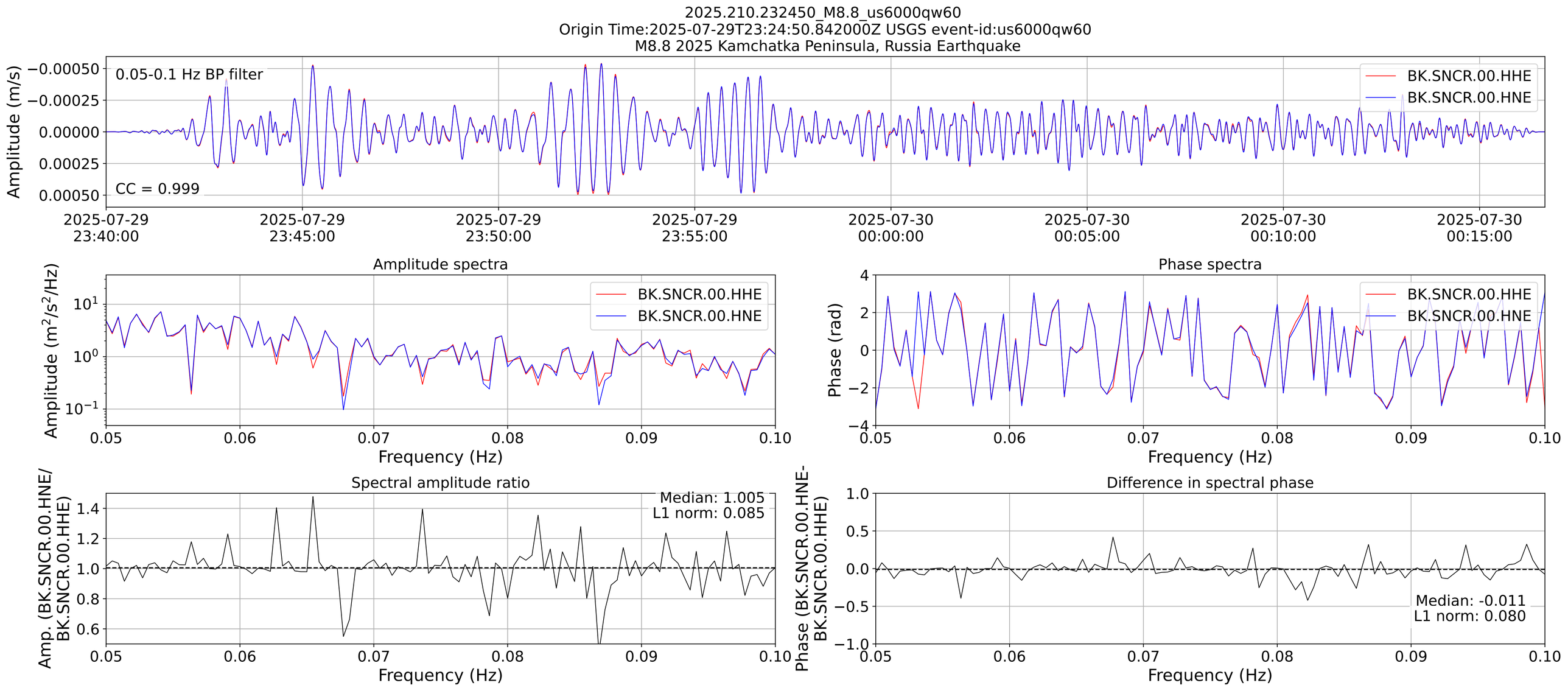

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.SHWD.00.HHN
BK.SHWD.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNN/ BK.SHWD.00.HHN)
Median: 1.014
L1 norm: 0.053
Difference in spectral phase
Phase (BK.SHWD.00.HNN- BK.SHWD.00.HHN)
Median: -0.011
L1 norm: 0.069

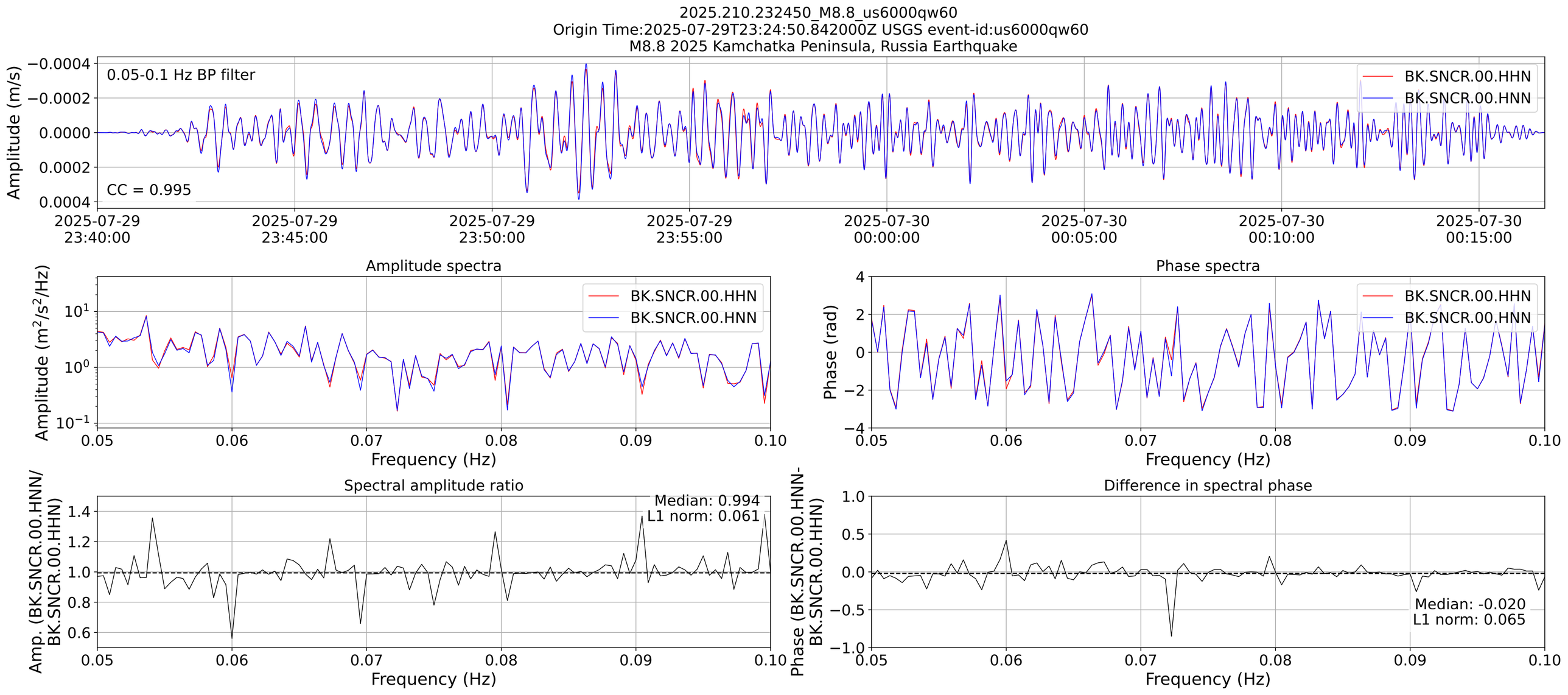

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SHWD.00.HHZ
BK.SHWD.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNZ/ BK.SHWD.00.HHZ)
Median: 1.002
L1 norm: 0.019
Difference in spectral phase
Phase (BK.SHWD.00.HNZ- BK.SHWD.00.HHZ)
Median: 0.005
L1 norm: 0.023

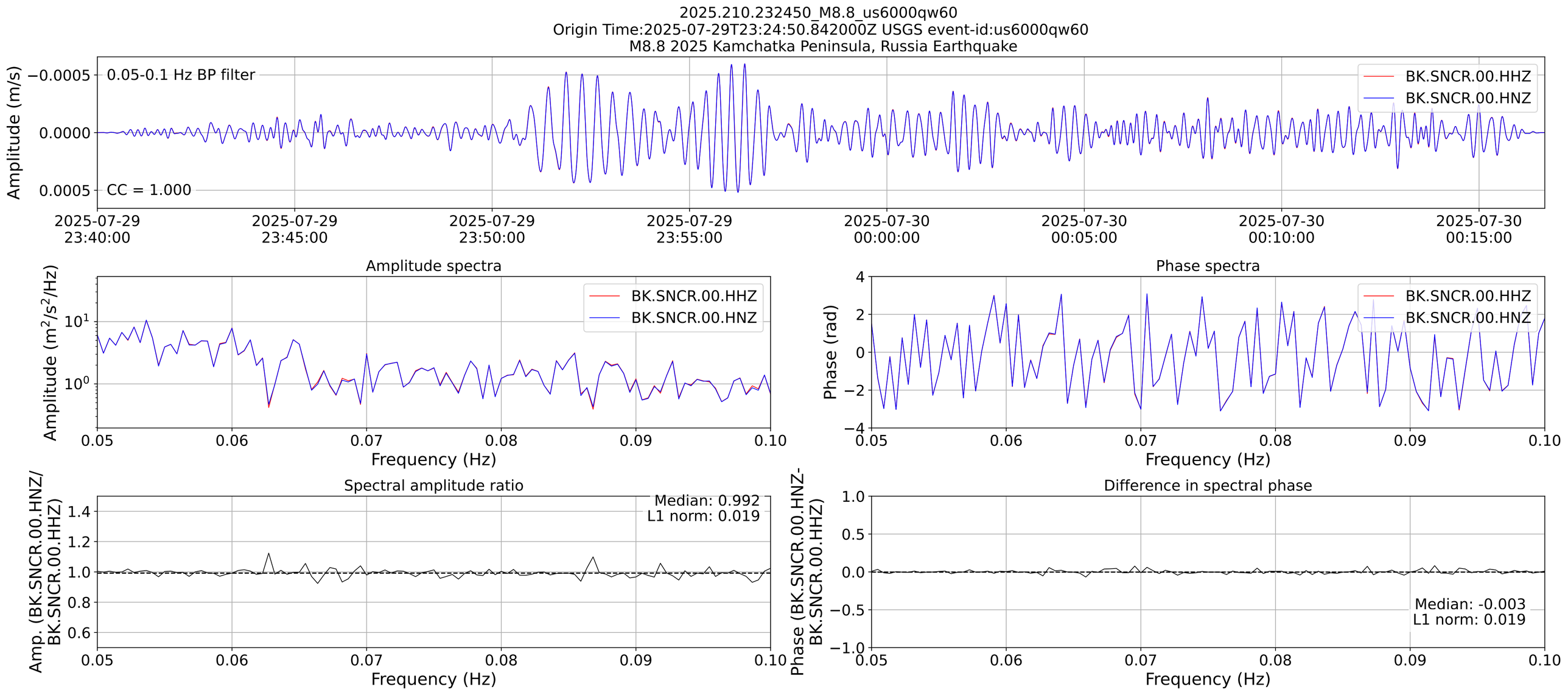

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SKGS.00.HHE
BK.SKGS.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNE/ BK.SKGS.00.HHE)
Median: 0.990
L1 norm: 0.047
Difference in spectral phase
Phase (BK.SKGS.00.HNE- BK.SKGS.00.HHE)
Median: 0.000
L1 norm: 0.066

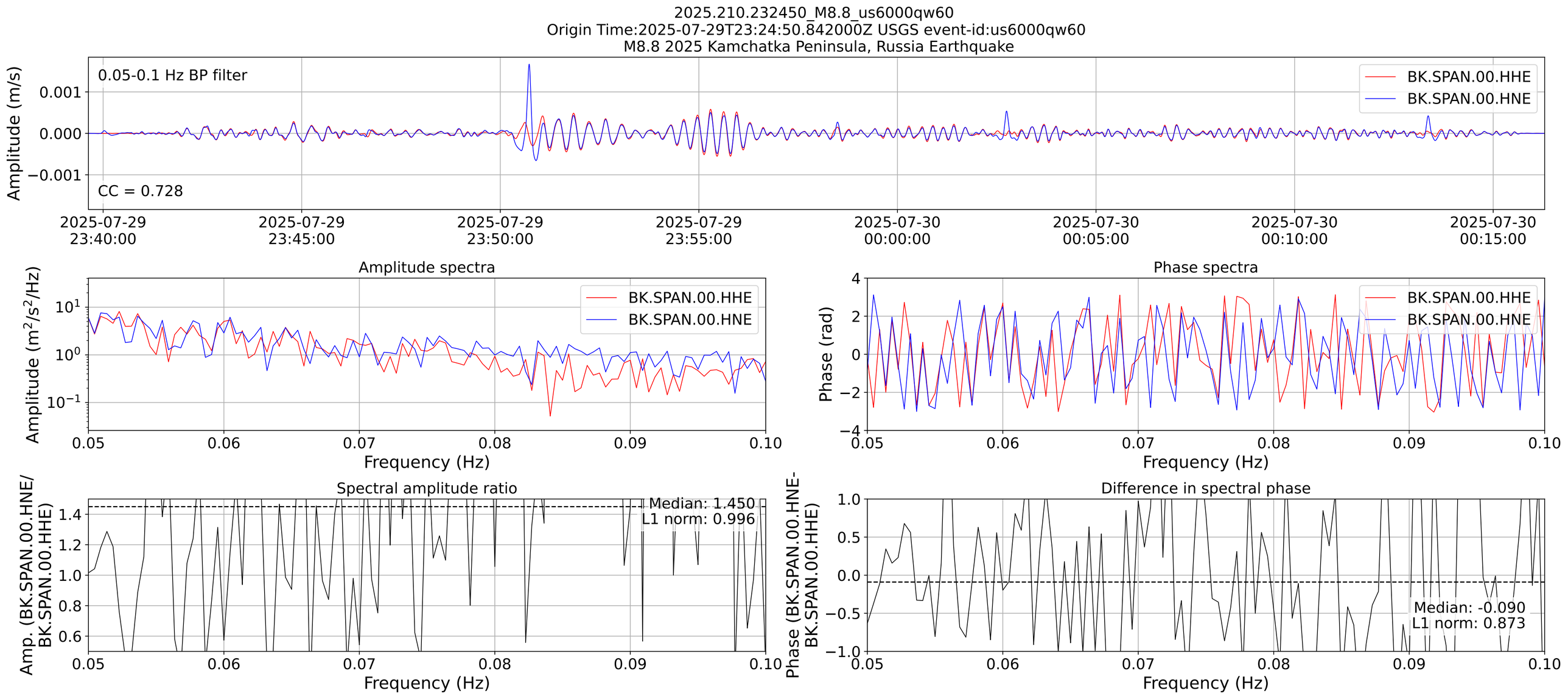

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.SKGS.00.HHN
BK.SKGS.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNN/ BK.SKGS.00.HHN)
Median: 1.009
L1 norm: 0.065
Difference in spectral phase
Phase (BK.SKGS.00.HNN- BK.SKGS.00.HHN)
Median: -0.003
L1 norm: 0.056

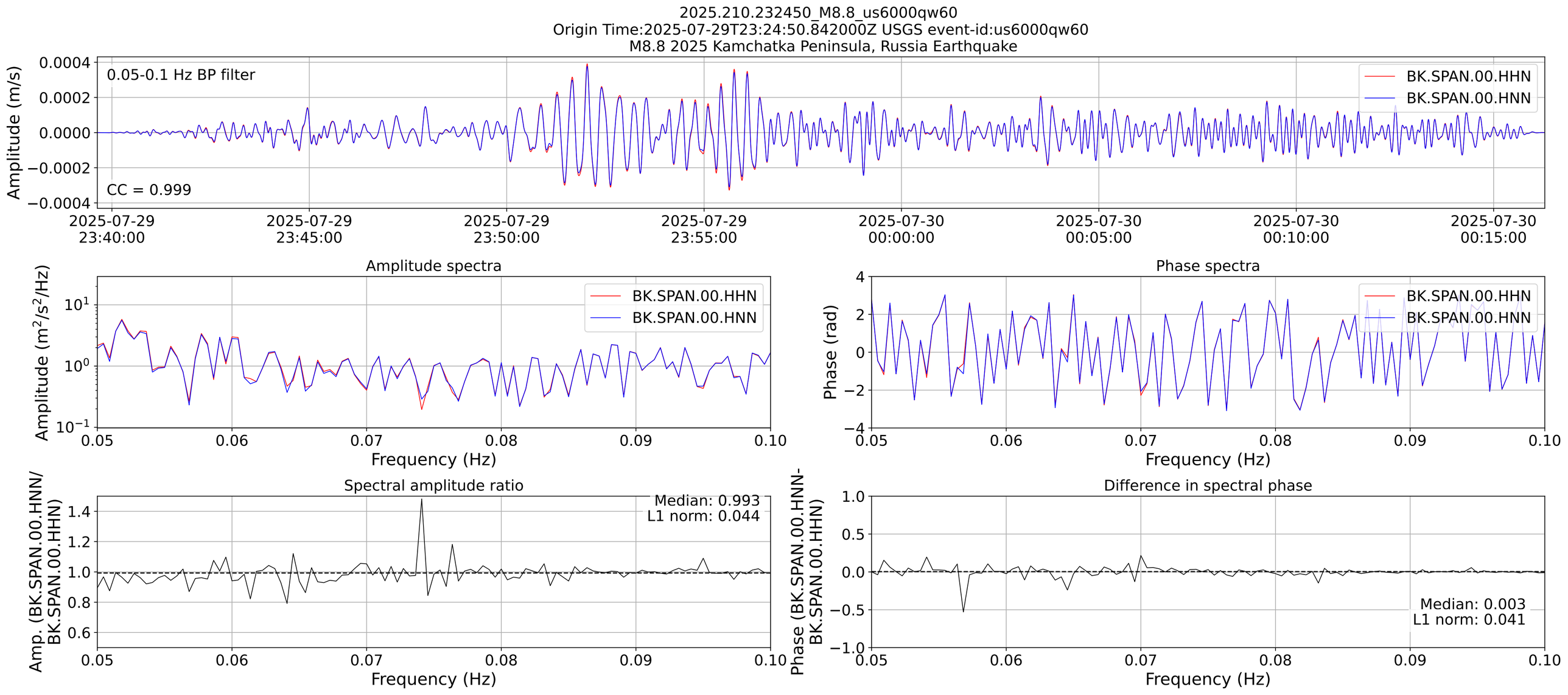

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SKGS.00.HHZ
BK.SKGS.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNZ/ BK.SKGS.00.HHZ)
Median: 0.992
L1 norm: 0.024
Difference in spectral phase
Phase (BK.SKGS.00.HNZ- BK.SKGS.00.HHZ)
Median: 0.001
L1 norm: 0.020

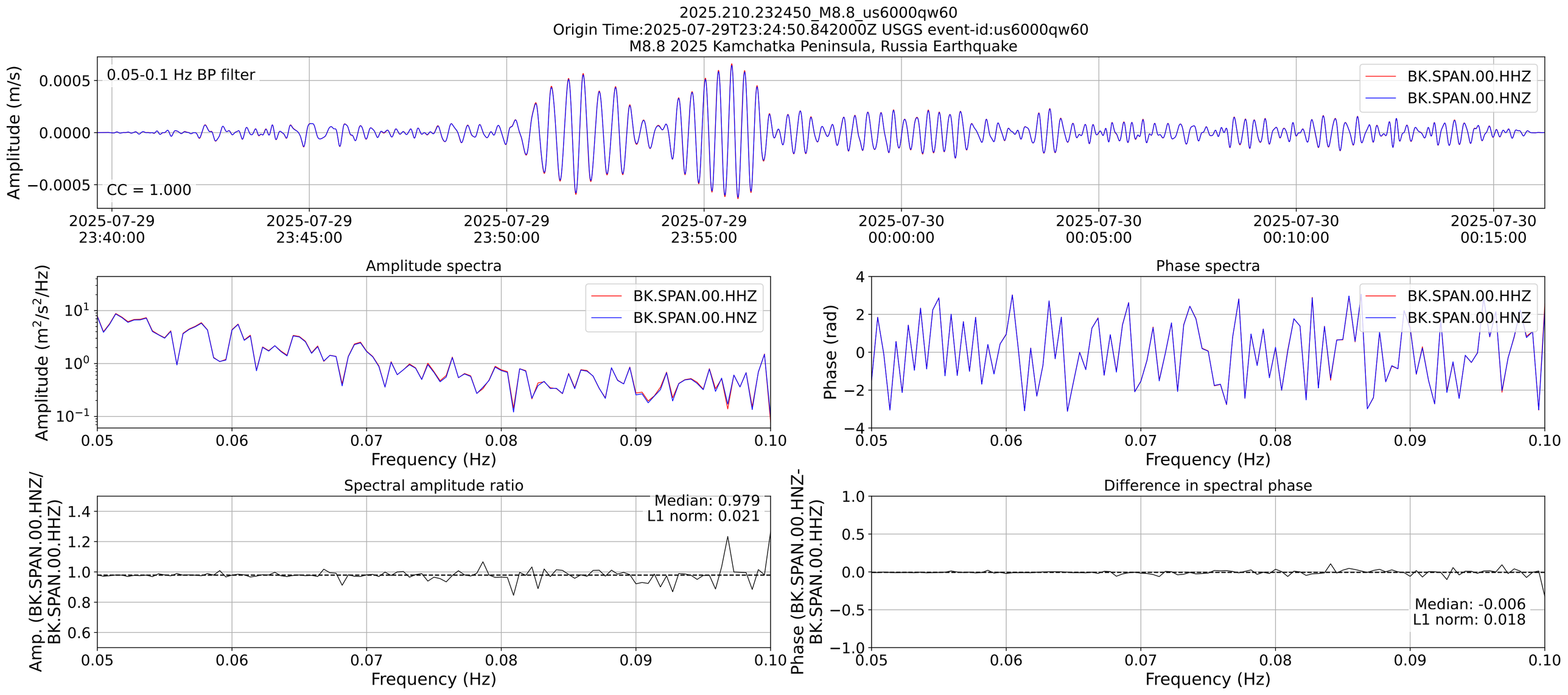

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SNCR.00.HHE
BK.SNCR.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SNCR.00.HNE/ BK.SNCR.00.HHE)
Median: 1.005
L1 norm: 0.085
Difference in spectral phase
Phase (BK.SNCR.00.HNE- BK.SNCR.00.HHE)
Median: -0.011
L1 norm: 0.080

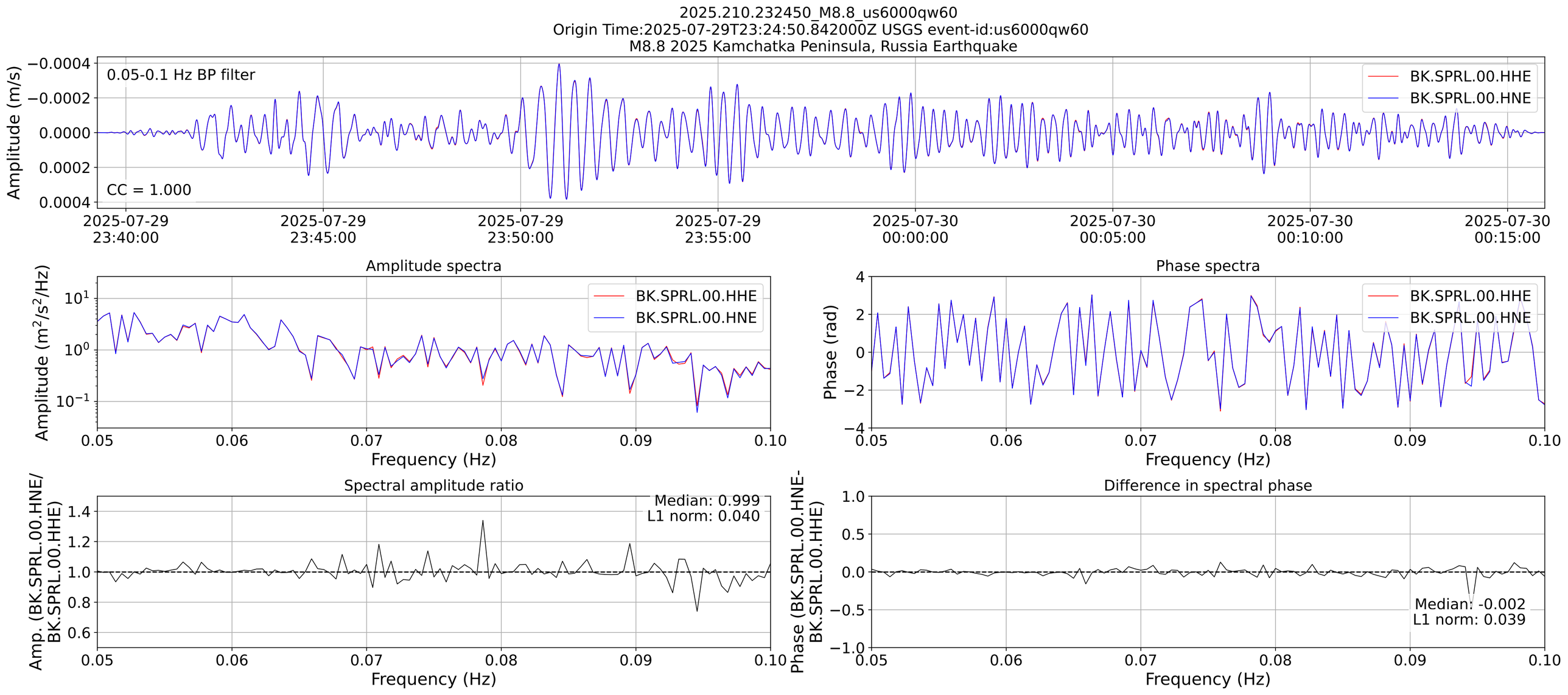

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
BK.SNCR.00.HHN
BK.SNCR.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SNCR.00.HNN/ BK.SNCR.00.HHN)
Median: 0.994
L1 norm: 0.061
Difference in spectral phase
Phase (BK.SNCR.00.HNN- BK.SNCR.00.HHN)
Median: -0.020
L1 norm: 0.065

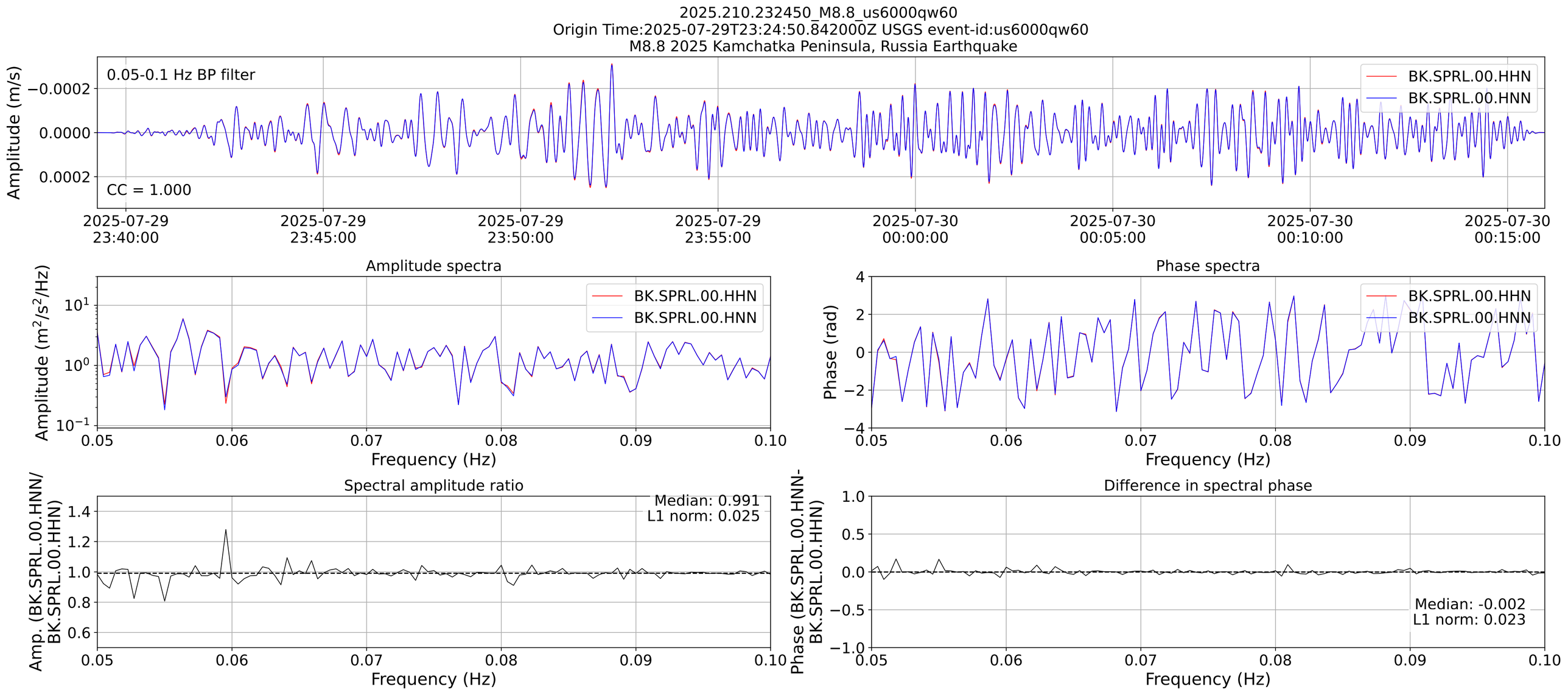

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SNCR.00.HHZ
BK.SNCR.00.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SNCR.00.HNZ/ BK.SNCR.00.HHZ)
Median: 0.992
L1 norm: 0.019
Difference in spectral phase
Phase (BK.SNCR.00.HNZ- BK.SNCR.00.HHZ)
Median: -0.003
L1 norm: 0.019

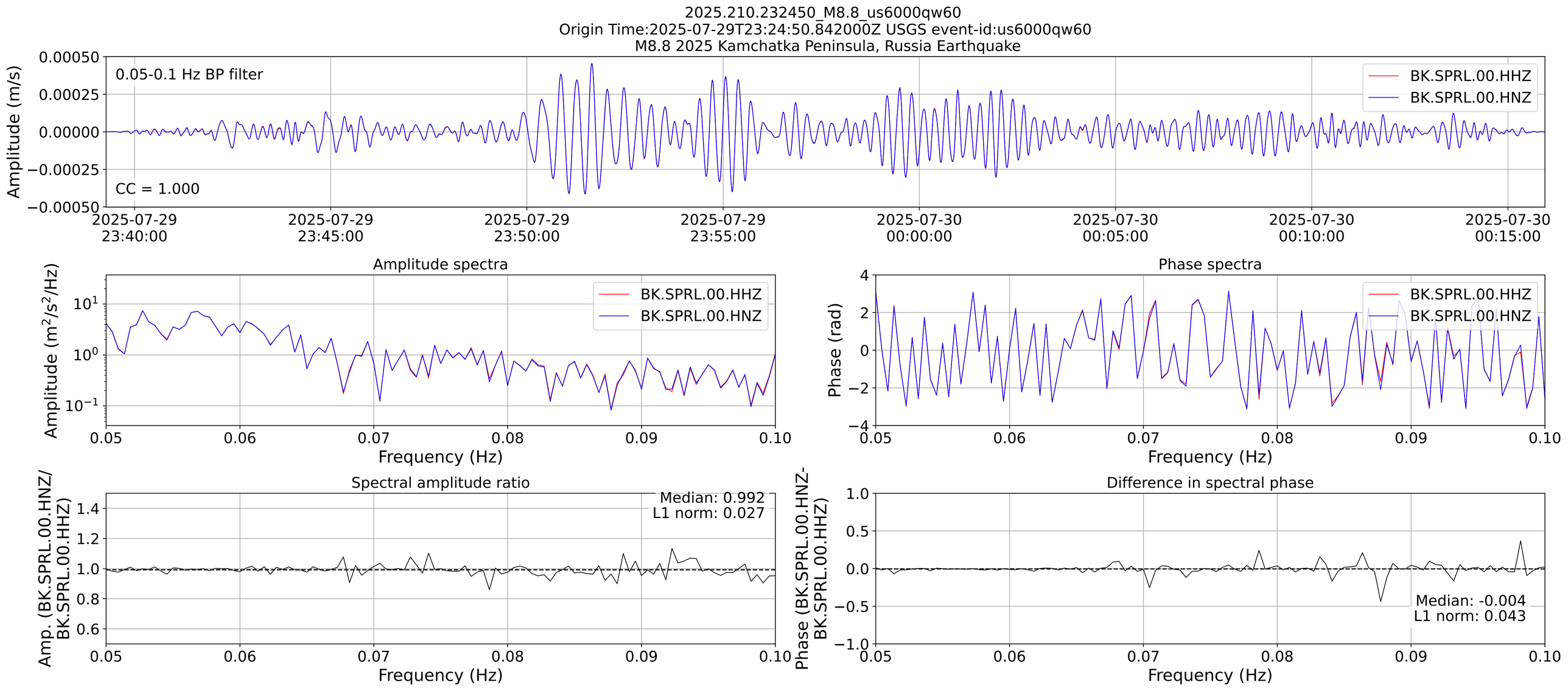

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.728
BK.SPAN.00.HHE
BK.SPAN.00.HNE
Amplitude (m/s)
0.001
0.000
−0.001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNE/ BK.SPAN.00.HHE)
Median: 1.450
L1 norm: 0.996
Difference in spectral phase
Phase (BK.SPAN.00.HNE- BK.SPAN.00.HHE)
Median: -0.090
L1 norm: 0.873

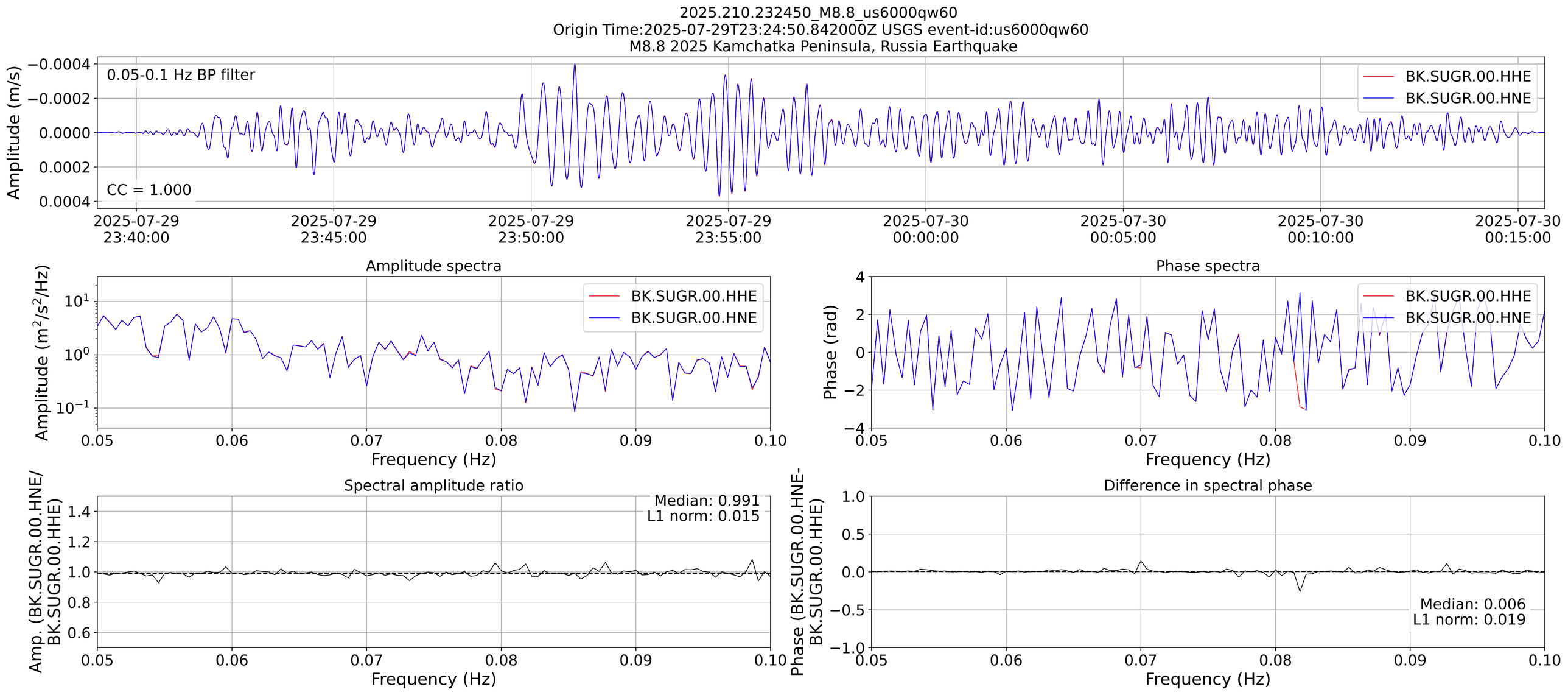

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SPAN.00.HHN
BK.SPAN.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNN/ BK.SPAN.00.HHN)
Median: 0.993
L1 norm: 0.044
Difference in spectral phase
Phase (BK.SPAN.00.HNN- BK.SPAN.00.HHN)
Median: 0.003
L1 norm: 0.041

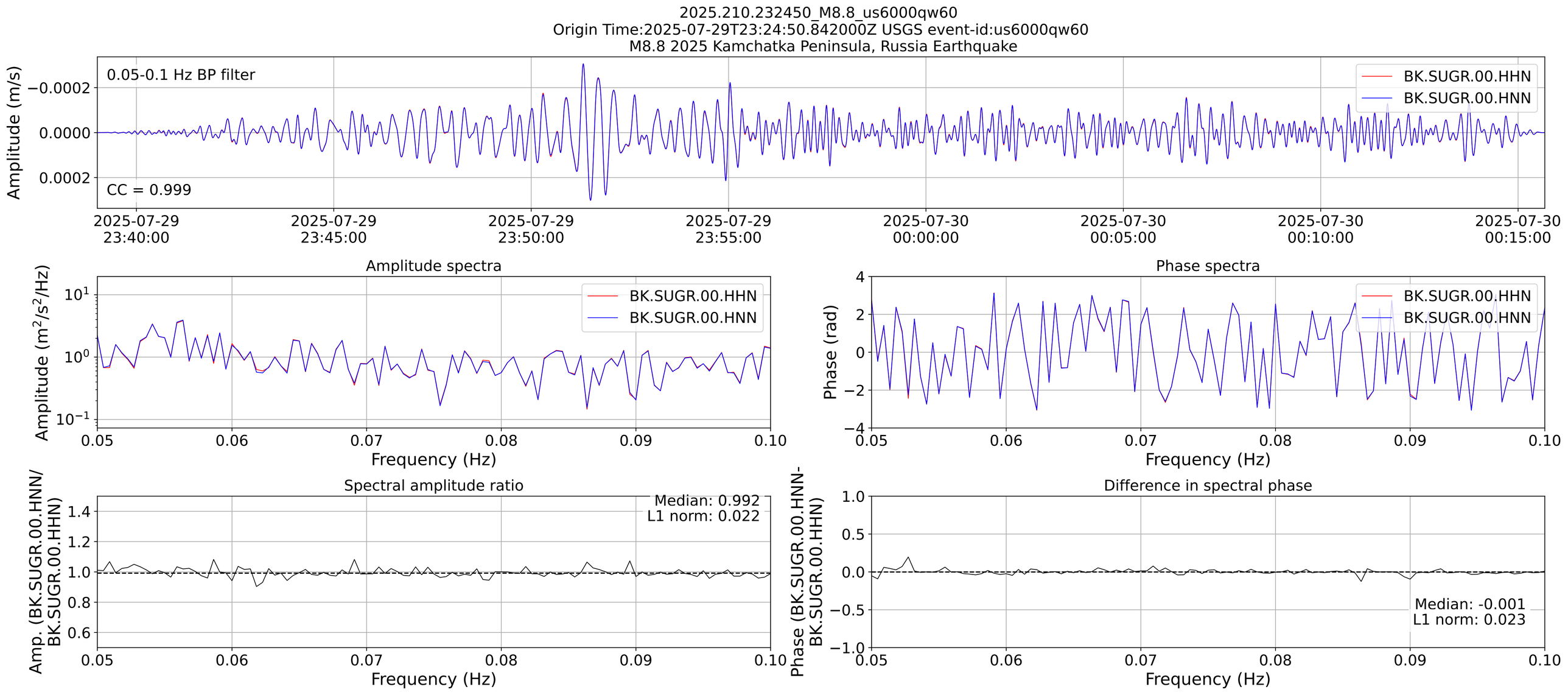

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SPAN.00.HHZ
BK.SPAN.00.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNZ/ BK.SPAN.00.HHZ)
Median: 0.979
L1 norm: 0.021
Difference in spectral phase
Phase (BK.SPAN.00.HNZ-BK.SPAN.00.HHZ)
Median: -0.006
L1 norm: 0.018

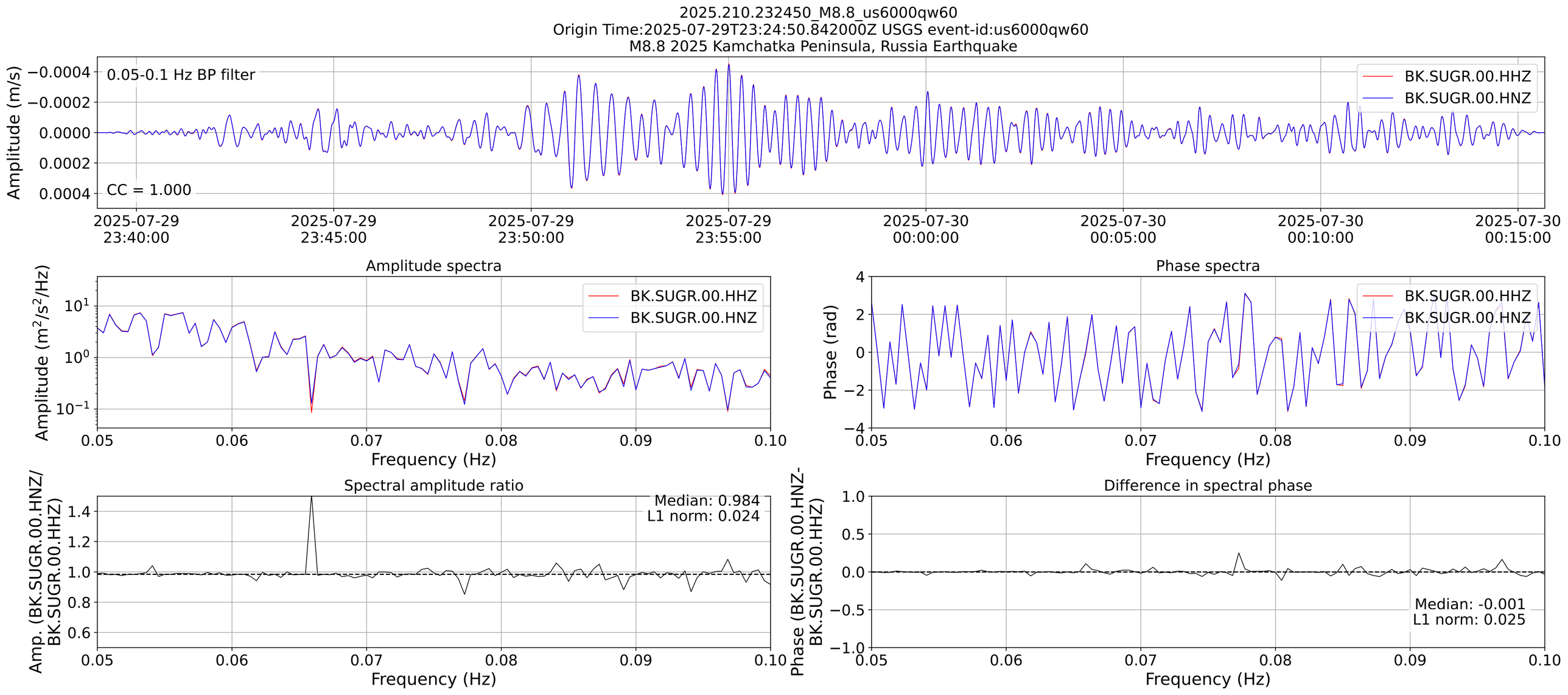

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SPRL.00.HHE
BK.SPRL.00.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNE/ BK.SPRL.00.HHE)
Median: 0.999
L1 norm: 0.040
Difference in spectral phase
Phase (BK.SPRL.00.HNE- BK.SPRL.00.HHE)
Median: -0.002
L1 norm: 0.039

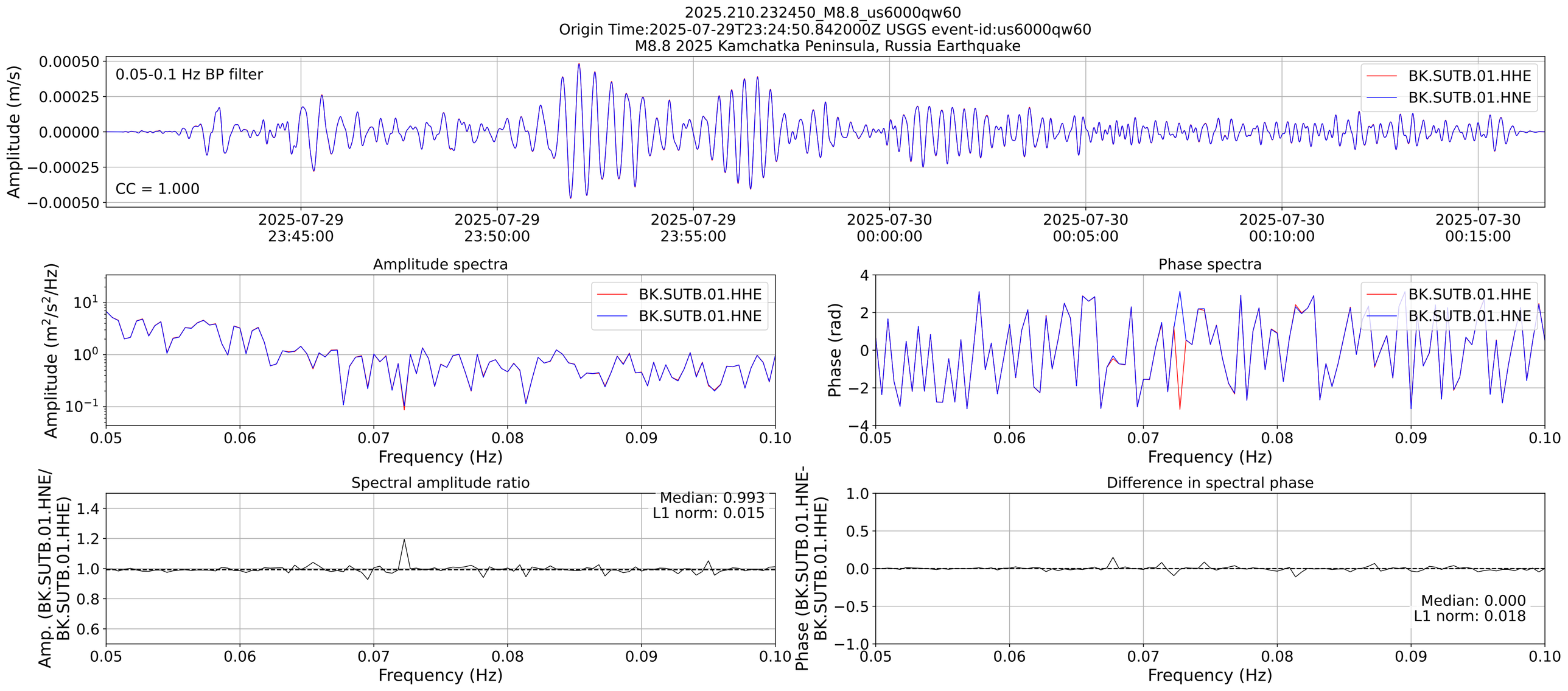

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SPRL.00.HHN
BK.SPRL.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNN/ BK.SPRL.00.HHN)
Median: 0.991
L1 norm: 0.025
Difference in spectral phase
Phase (BK.SPRL.00.HNN- BK.SPRL.00.HHN)
Median: -0.002
L1 norm: 0.023

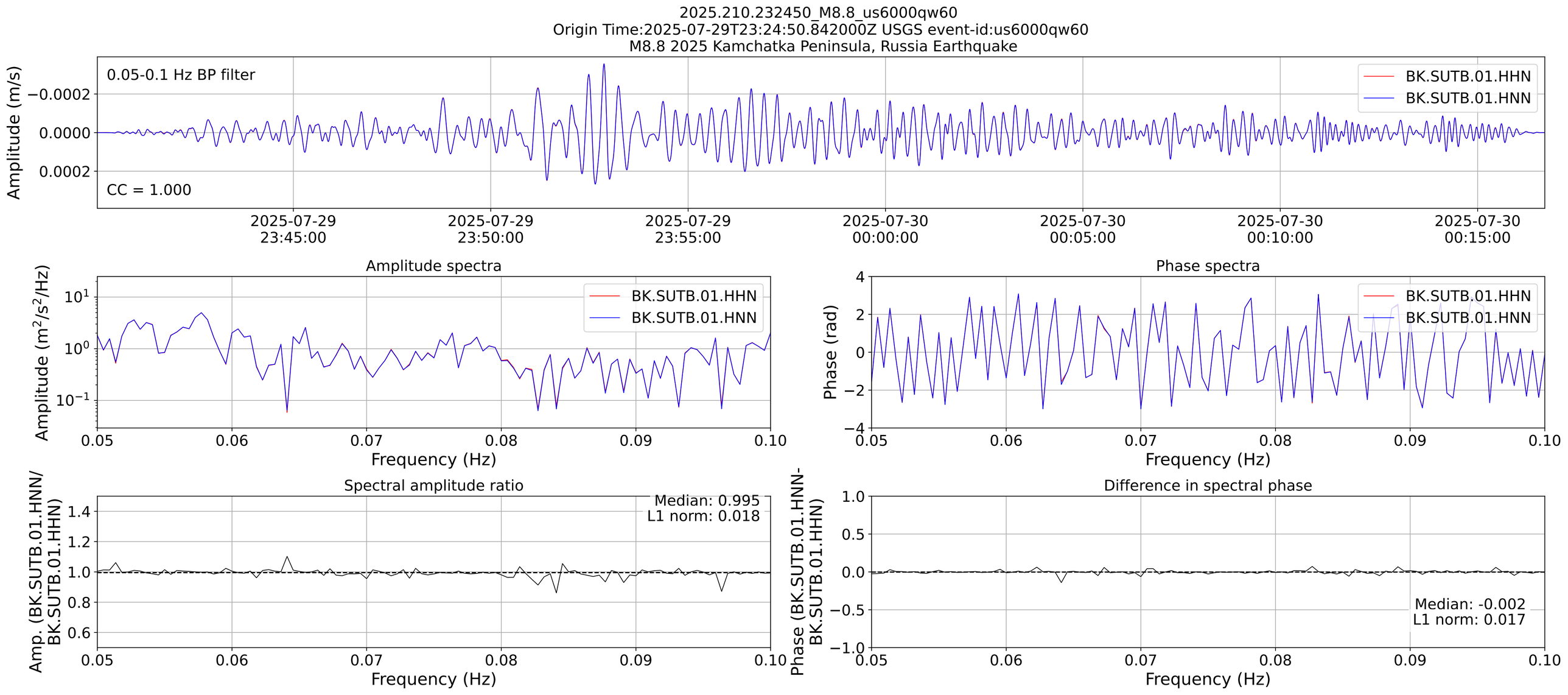

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SPRL.00.HHZ
BK.SPRL.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNZ/ BK.SPRL.00.HHZ)
Median: 0.992
L1 norm: 0.027
Difference in spectral phase
Phase (BK.SPRL.00.HNZ- BK.SPRL.00.HHZ)
Median: -0.004
L1 norm: 0.043

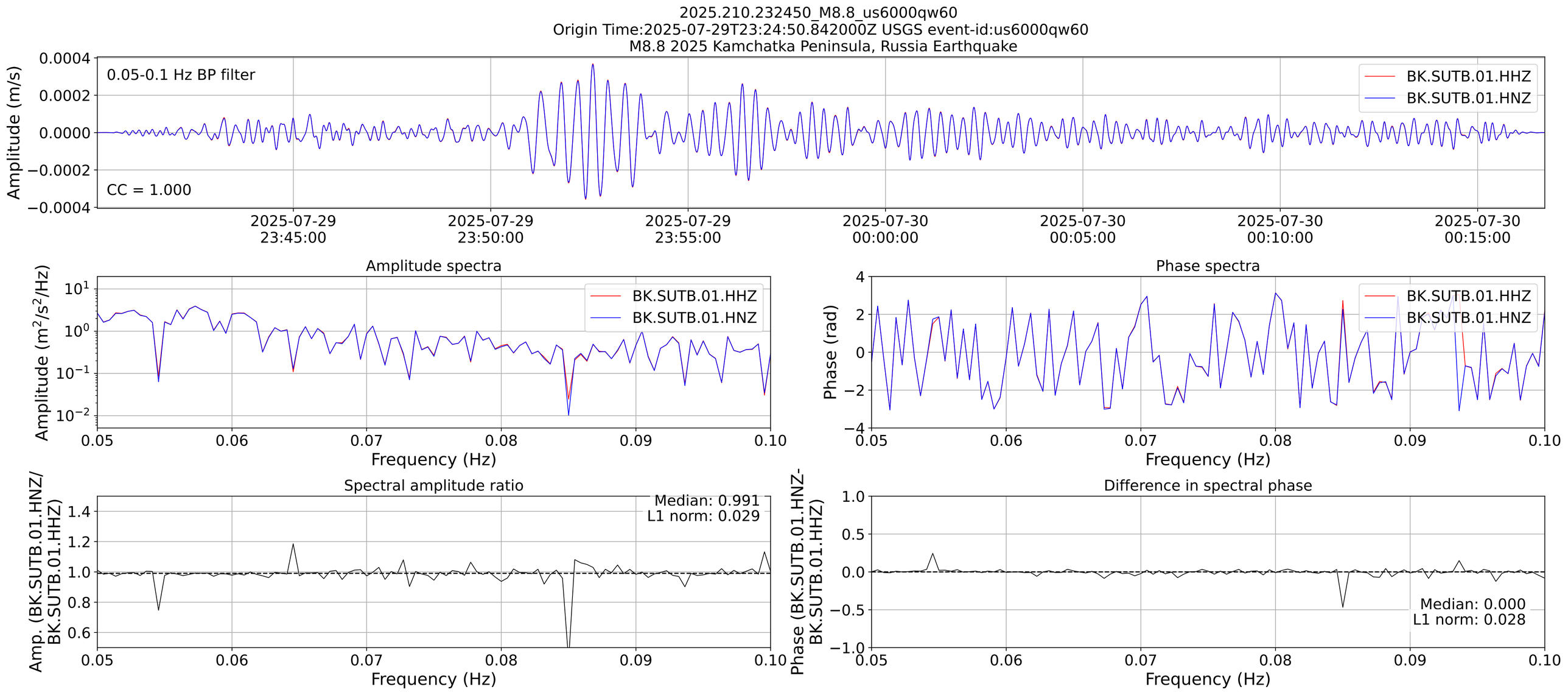

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SUGR.00.HHE
BK.SUGR.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNE/ BK.SUGR.00.HHE)
Median: 0.991
L1 norm: 0.015
Difference in spectral phase
Phase (BK.SUGR.00.HNE- BK.SUGR.00.HHE)
Median: 0.006
L1 norm: 0.019

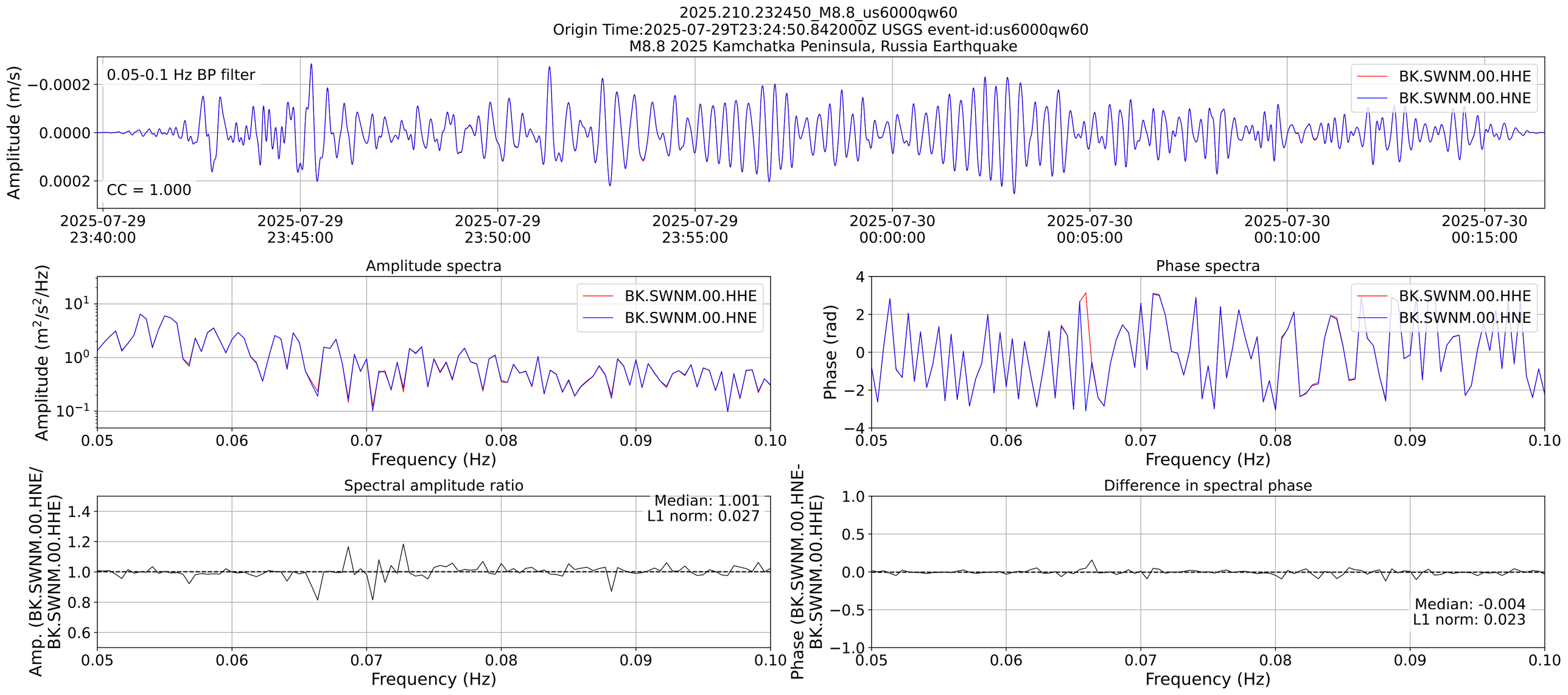

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.SUGR.00.HHN
BK.SUGR.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNN/ BK.SUGR.00.HHN)
Median: 0.992
L1 norm: 0.022
Difference in spectral phase
Phase (BK.SUGR.00.HNN- BK.SUGR.00.HHN)
Median: -0.001
L1 norm: 0.023

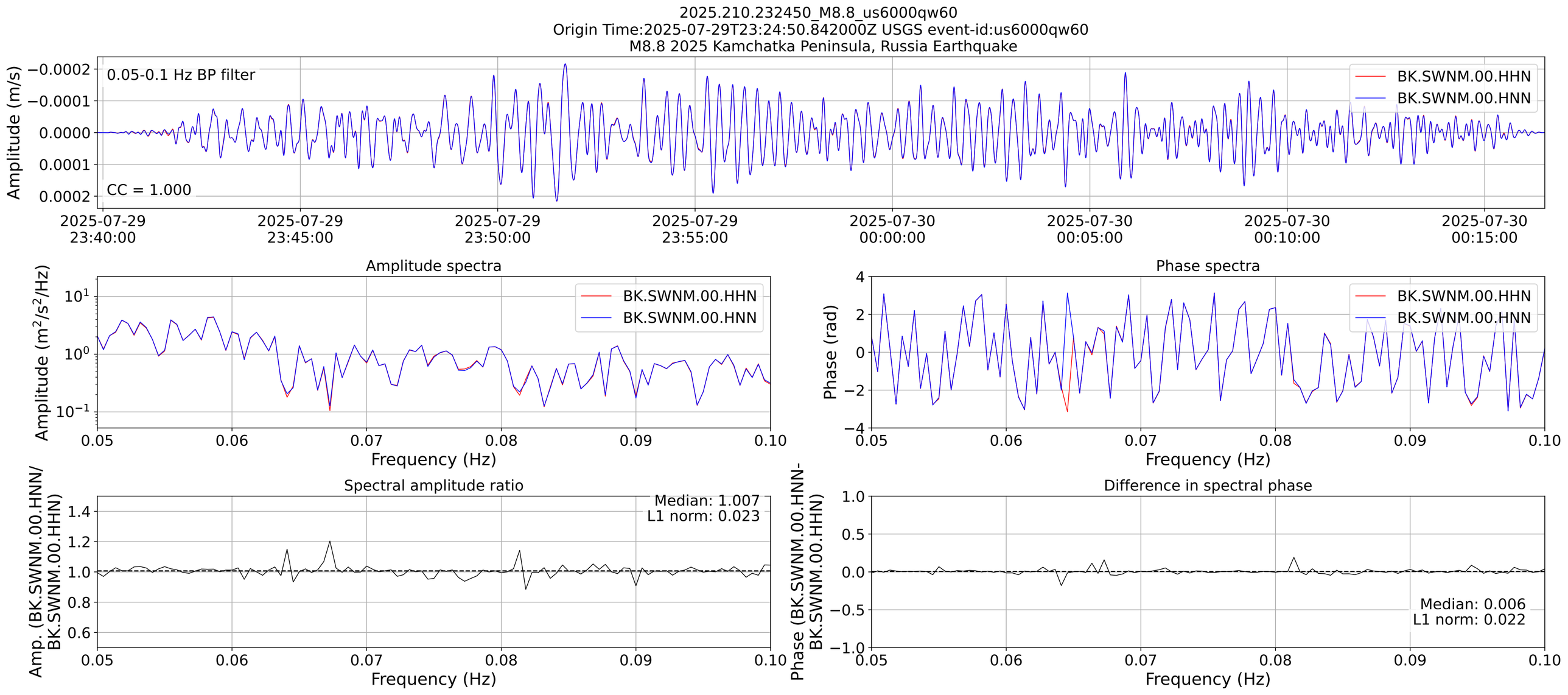

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SUGR.00.HHZ
BK.SUGR.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNZ/ BK.SUGR.00.HHZ)
Median: 0.984
L1 norm: 0.024
Difference in spectral phase
Phase (BK.SUGR.00.HNZ- BK.SUGR.00.HHZ)
Median: -0.001
L1 norm: 0.025

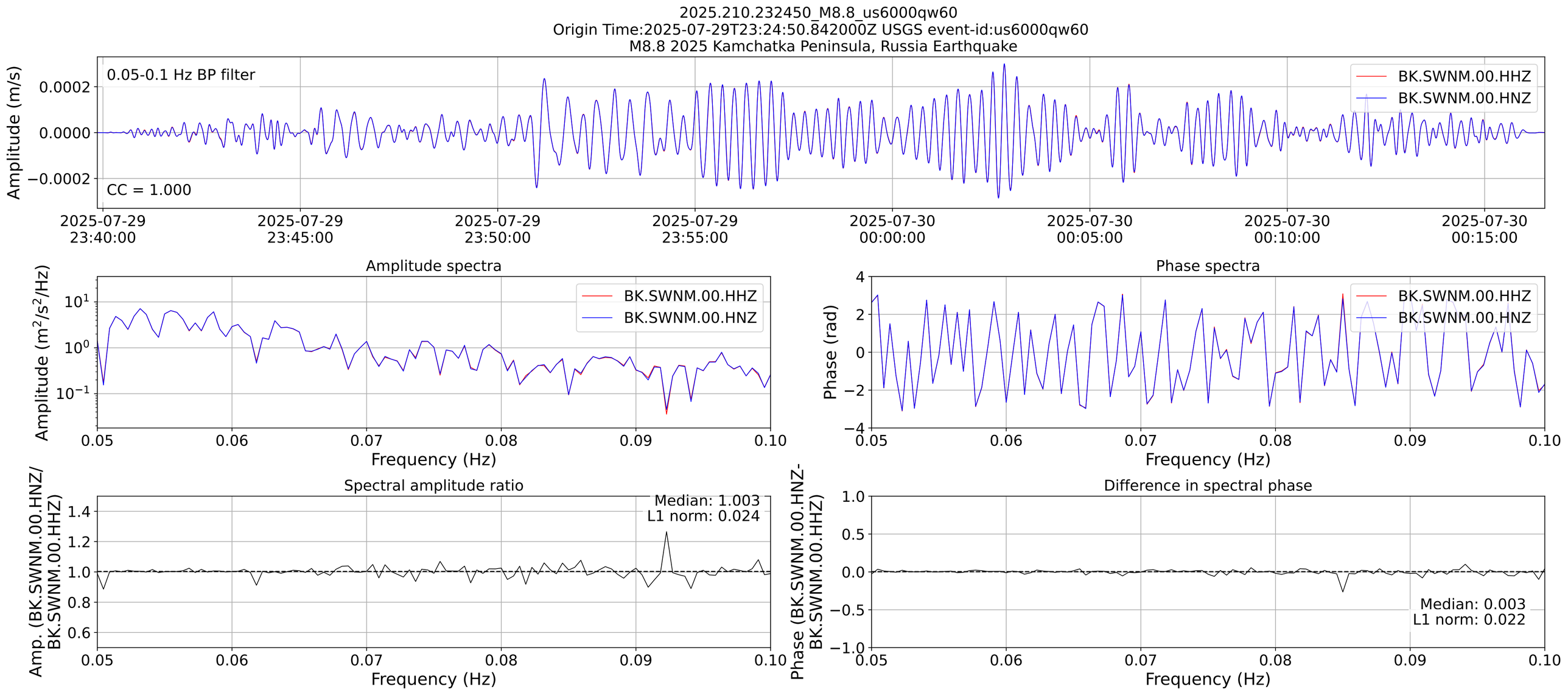

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SUTB.01.HHE
BK.SUTB.01.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNE/ BK.SUTB.01.HHE)
Median: 0.993
L1 norm: 0.015
Difference in spectral phase
Phase (BK.SUTB.01.HNE- BK.SUTB.01.HHE)
Median: 0.000
L1 norm: 0.018

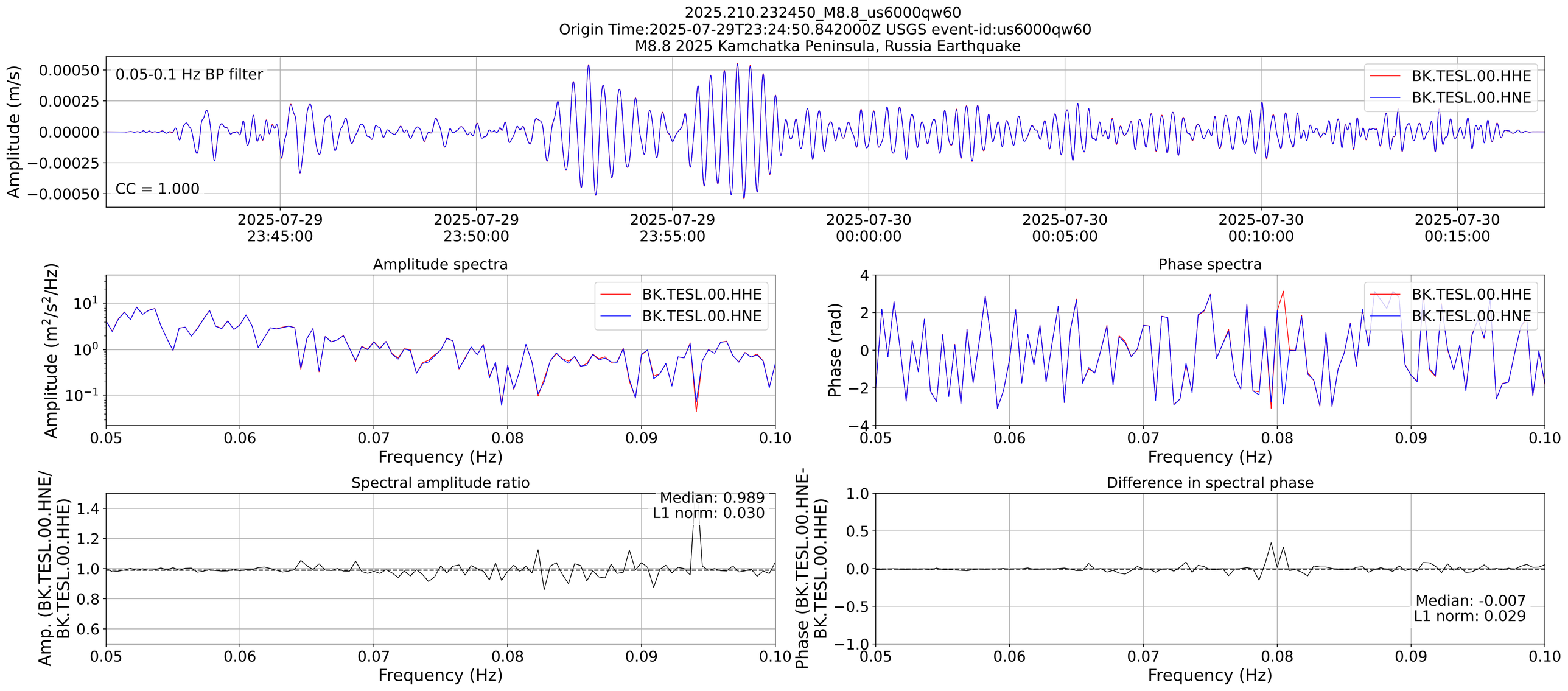

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SUTB.01.HHN
BK.SUTB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNN/ BK.SUTB.01.HHN)
Median: 0.995
L1 norm: 0.018
Difference in spectral phase
Phase (BK.SUTB.01.HNN- BK.SUTB.01.HHN)
Median: -0.002
L1 norm: 0.017

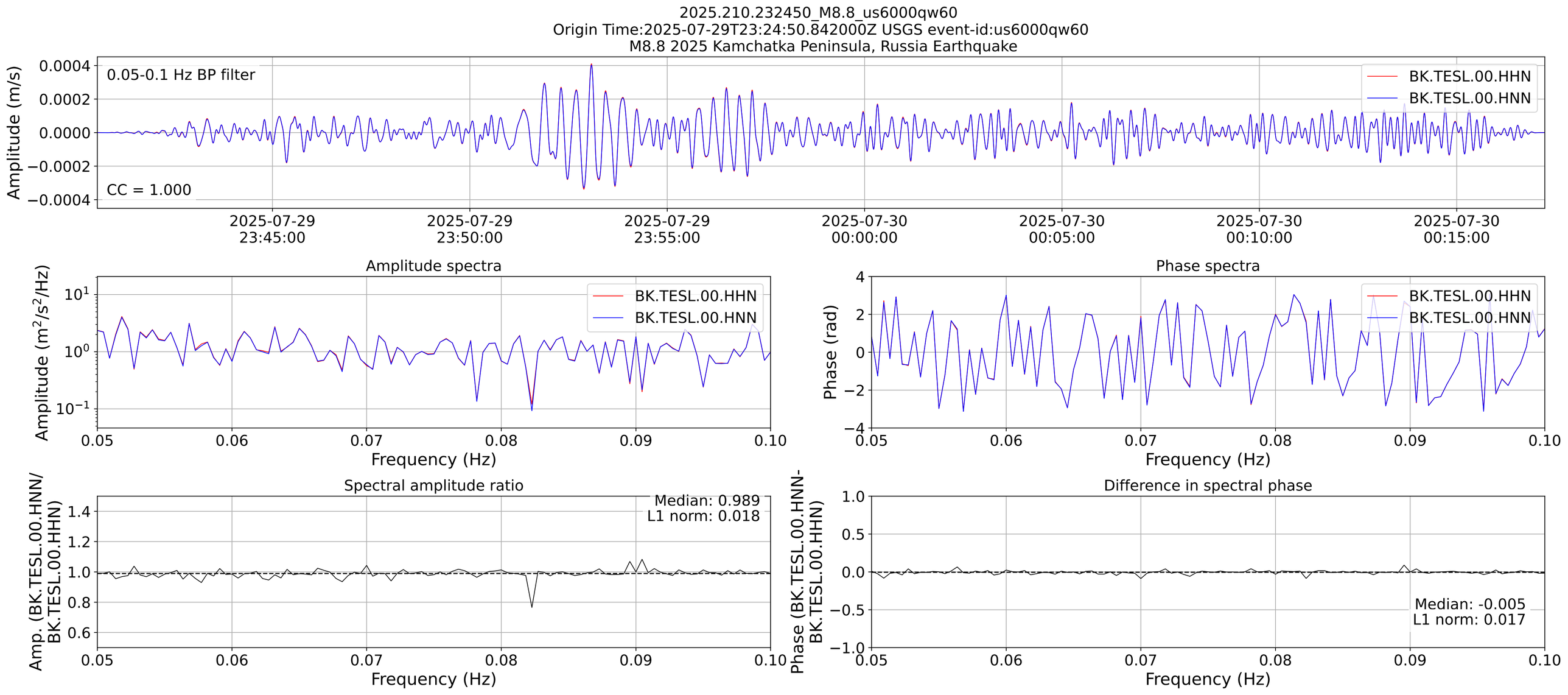

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SUTB.01.HHZ
BK.SUTB.01.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNZ/ BK.SUTB.01.HHZ)
Median: 0.991
L1 norm: 0.029
Difference in spectral phase
Phase (BK.SUTB.01.HNZ- BK.SUTB.01.HHZ)
Median: 0.000
L1 norm: 0.028

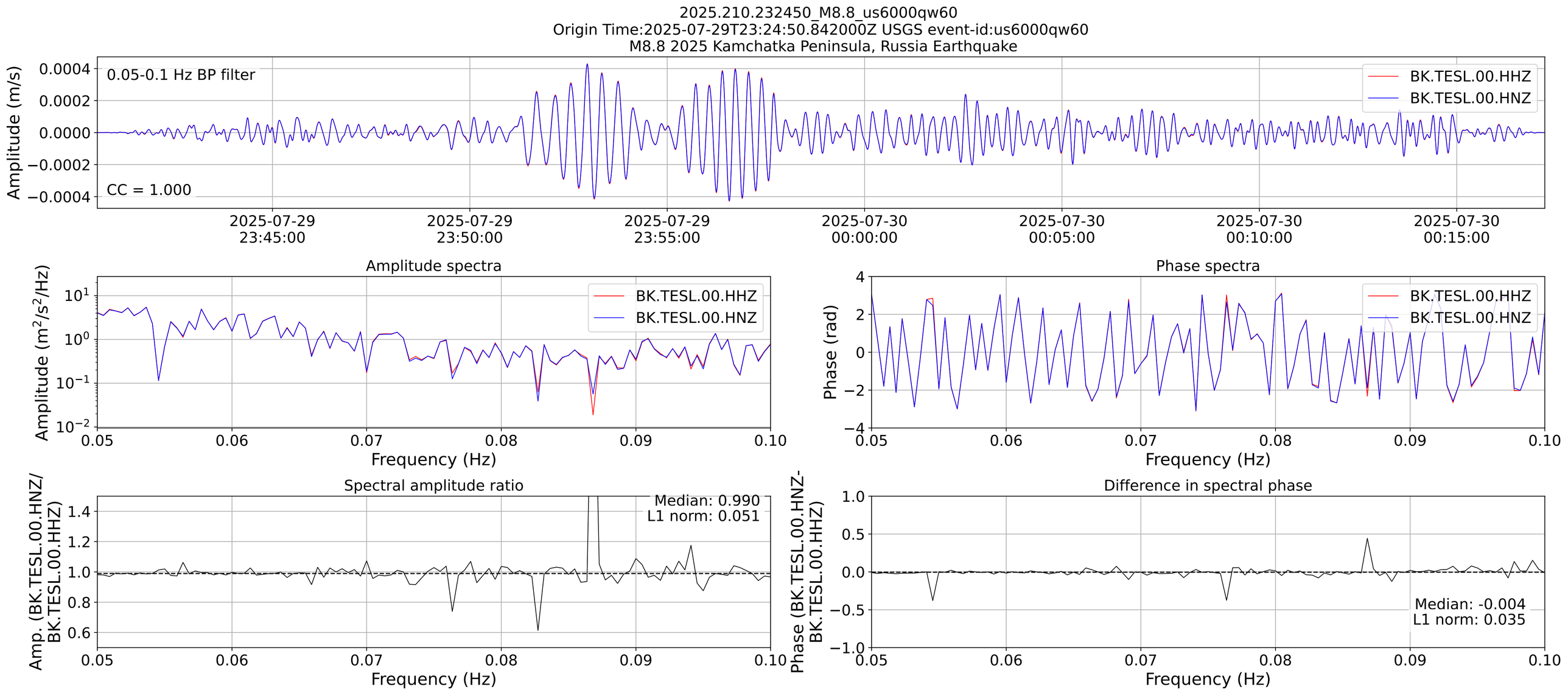

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SWNM.00.HHE
BK.SWNM.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNE/ BK.SWNM.00.HHE)
Median: 1.001
L1 norm: 0.027
Difference in spectral phase
Phase (BK.SWNM.00.HNE- BK.SWNM.00.HHE)
Median: -0.004
L1 norm: 0.023

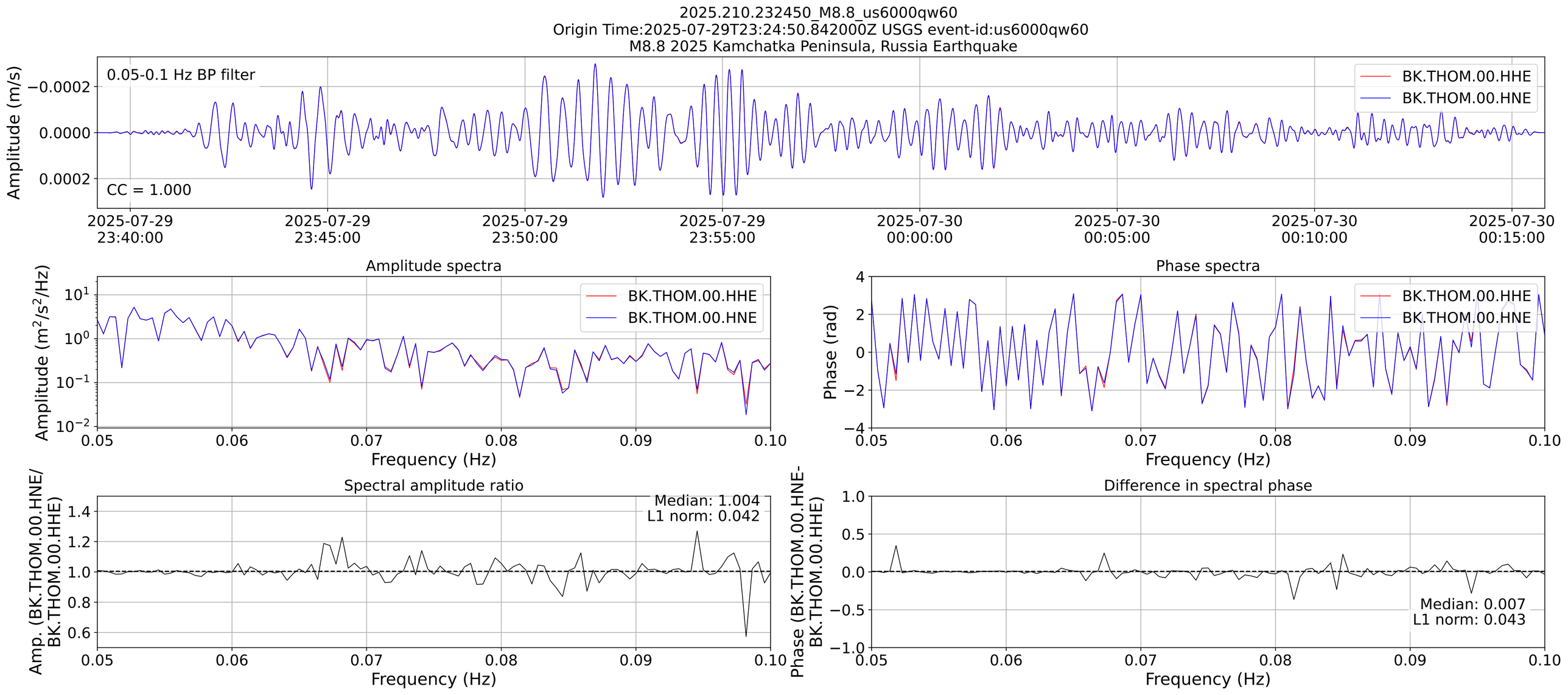

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SWNM.00.HHN
BK.SWNM.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNN/ BK.SWNM.00.HHN)
Median: 1.007
L1 norm: 0.023
Difference in spectral phase
Phase (BK.SWNM.00.HNN- BK.SWNM.00.HHN)
Median: 0.006
L1 norm: 0.022

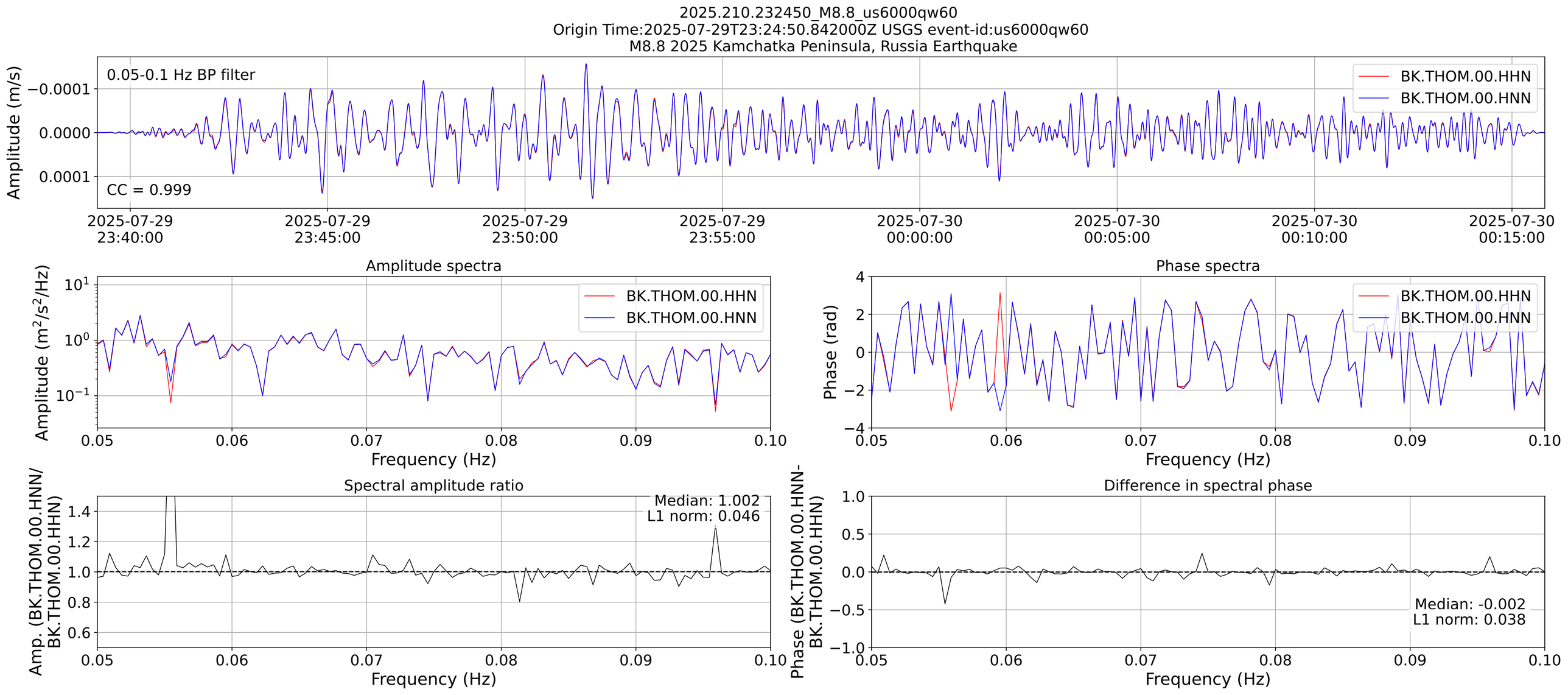

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.SWNM.00.HHZ
BK.SWNM.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNZ/ BK.SWNM.00.HHZ)
Median: 1.003
L1 norm: 0.024
Difference in spectral phase
Phase (BK.SWNM.00.HNZ- BK.SWNM.00.HHZ)
Median: 0.003
L1 norm: 0.022

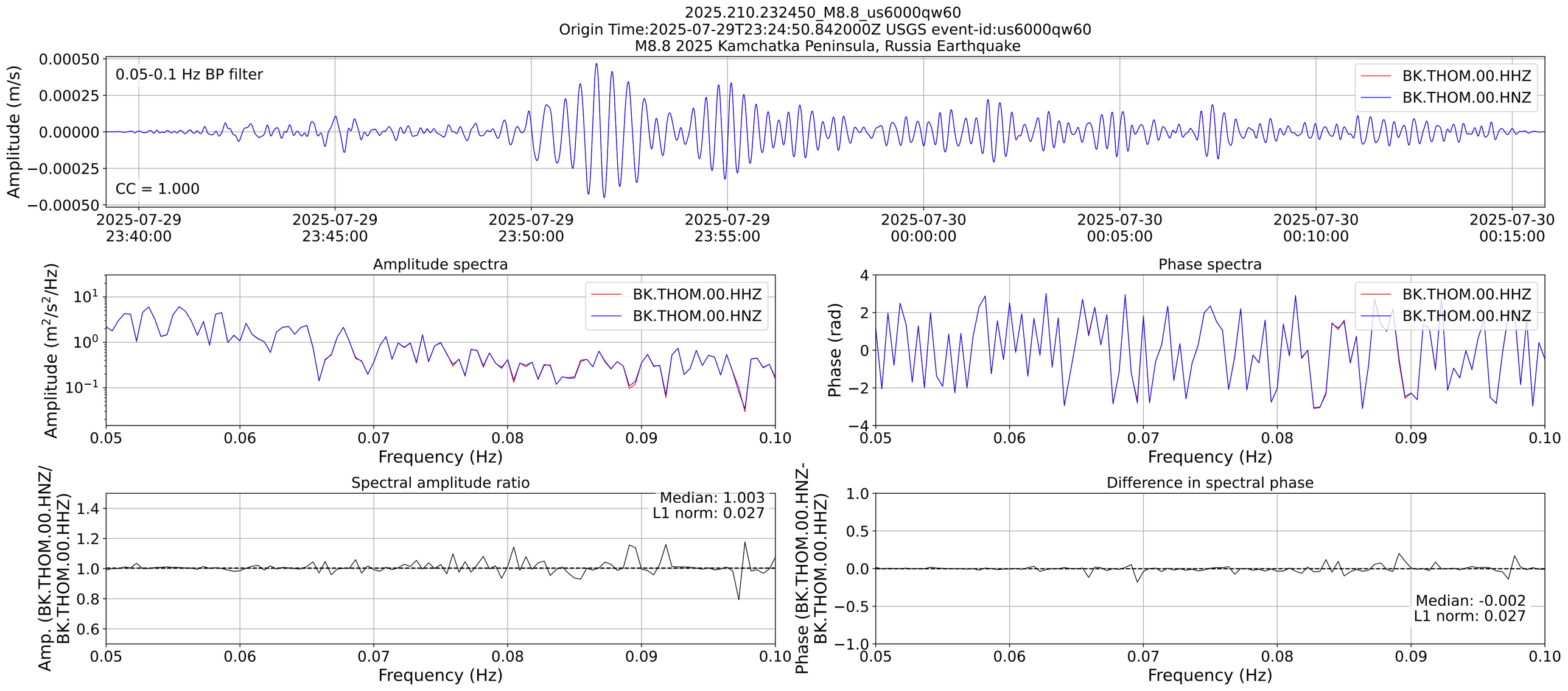

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TESL.00.HHE
BK.TESL.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNE/ BK.TESL.00.HHE)
Median: 0.989
L1 norm: 0.030
Difference in spectral phase
Phase (BK.TESL.00.HNE- BK.TESL.00.HHE)
Median: -0.007
L1 norm: 0.029

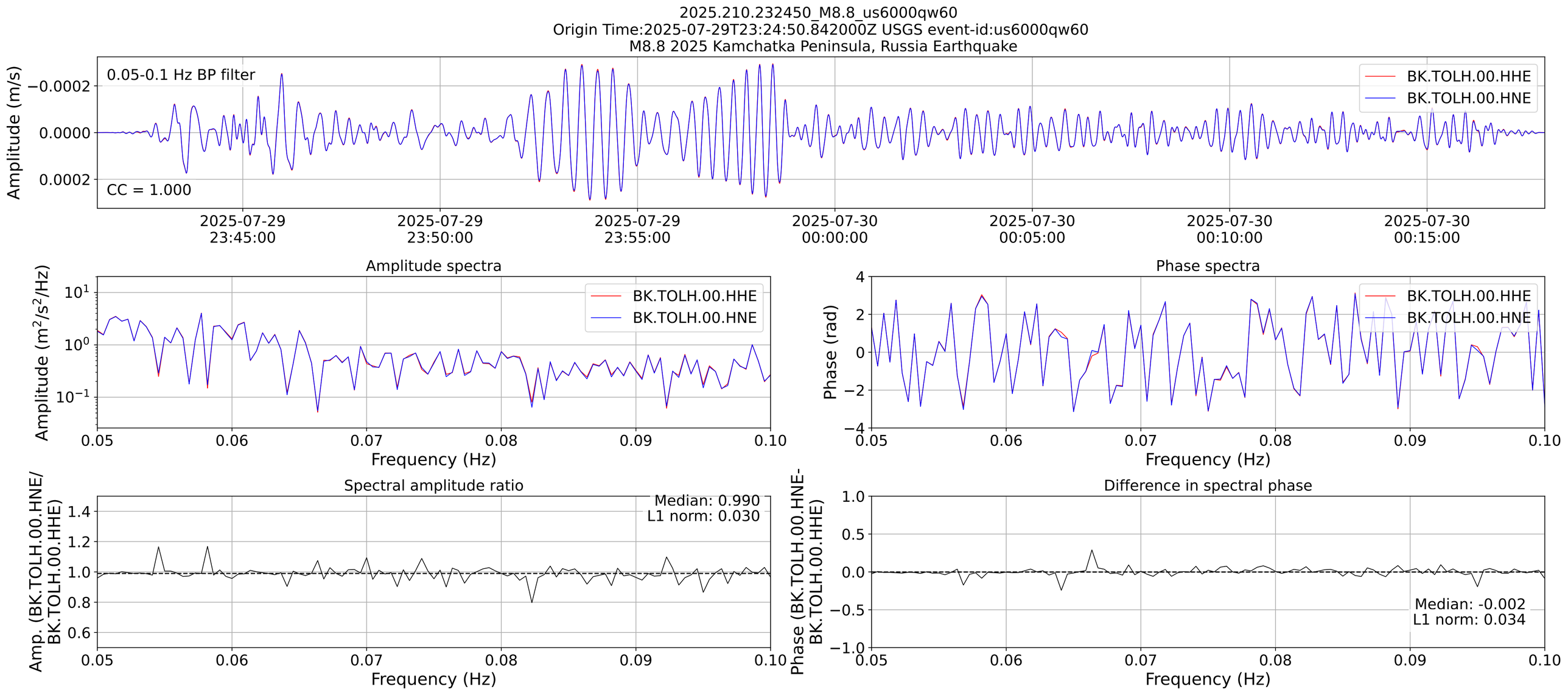

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TESL.00.HHN
BK.TESL.00.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNN/ BK.TESL.00.HHN)
Median: 0.989
L1 norm: 0.018
Difference in spectral phase
Phase (BK.TESL.00.HNN- BK.TESL.00.HHN)
Median: -0.005
L1 norm: 0.017

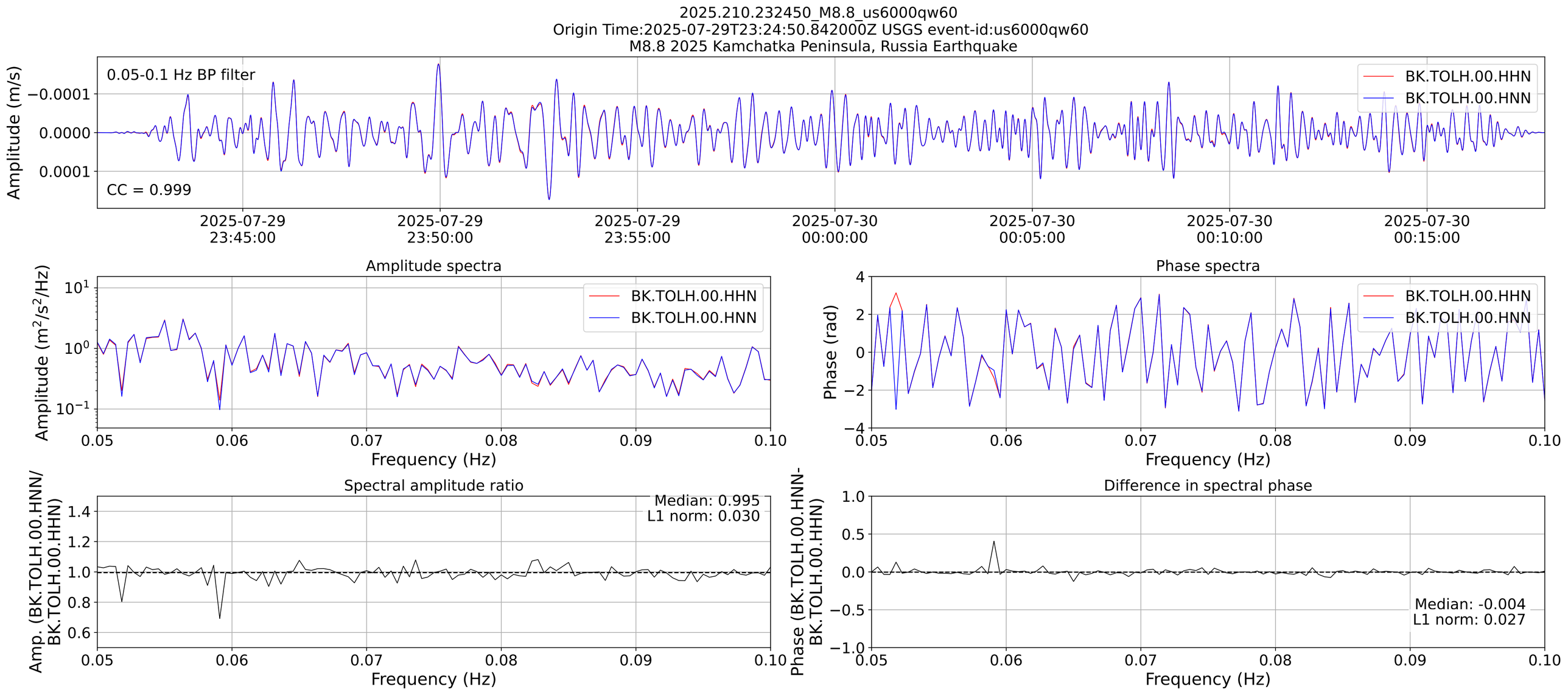

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TESL.00.HHZ
BK.TESL.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNZ/ BK.TESL.00.HHZ)
Median: 0.990
L1 norm: 0.051
Difference in spectral phase
Phase (BK.TESL.00.HNZ- BK.TESL.00.HHZ)
Median: -0.004
L1 norm: 0.035

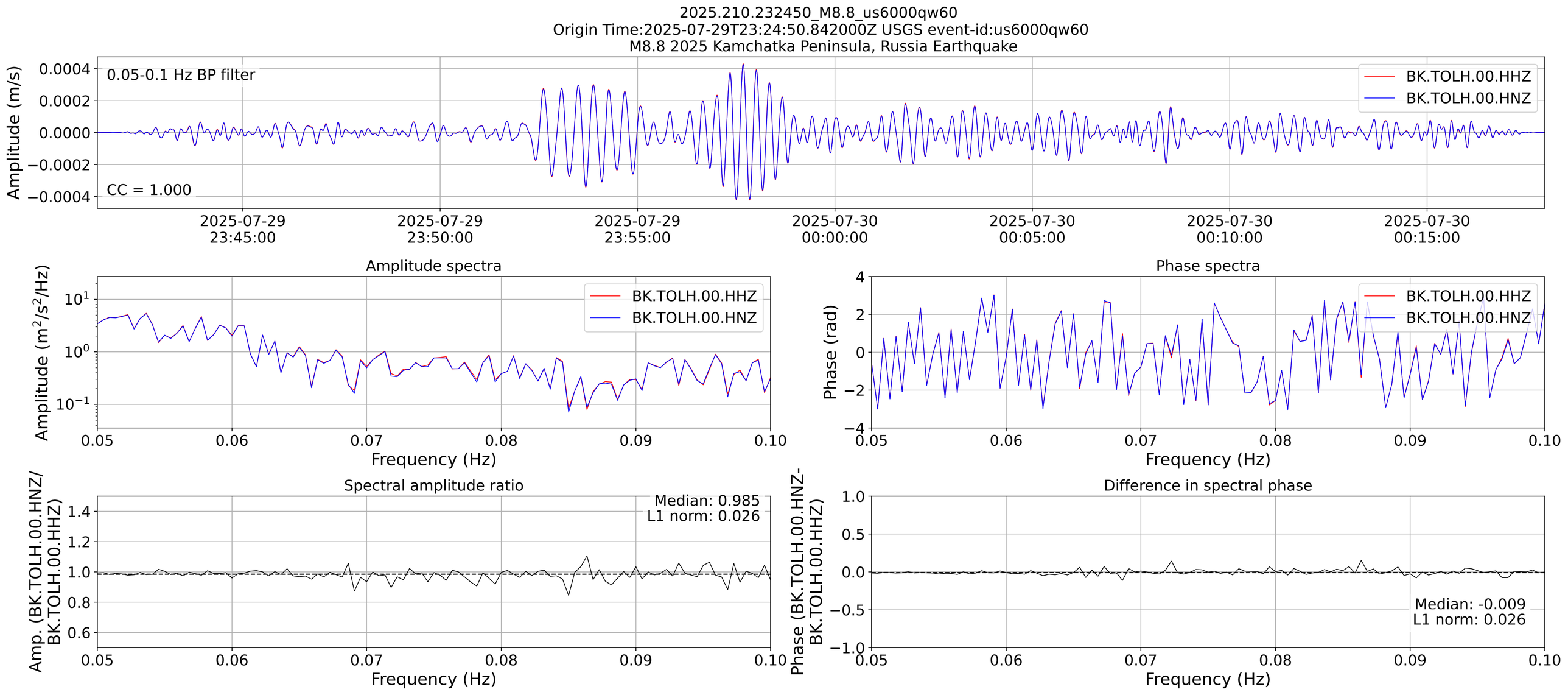

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.THOM.00.HHE
BK.THOM.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNE/ BK.THOM.00.HHE)
Median: 1.004
L1 norm: 0.042
Difference in spectral phase
Phase (BK.THOM.00.HNE- BK.THOM.00.HHE)
Median: 0.007
L1 norm: 0.043

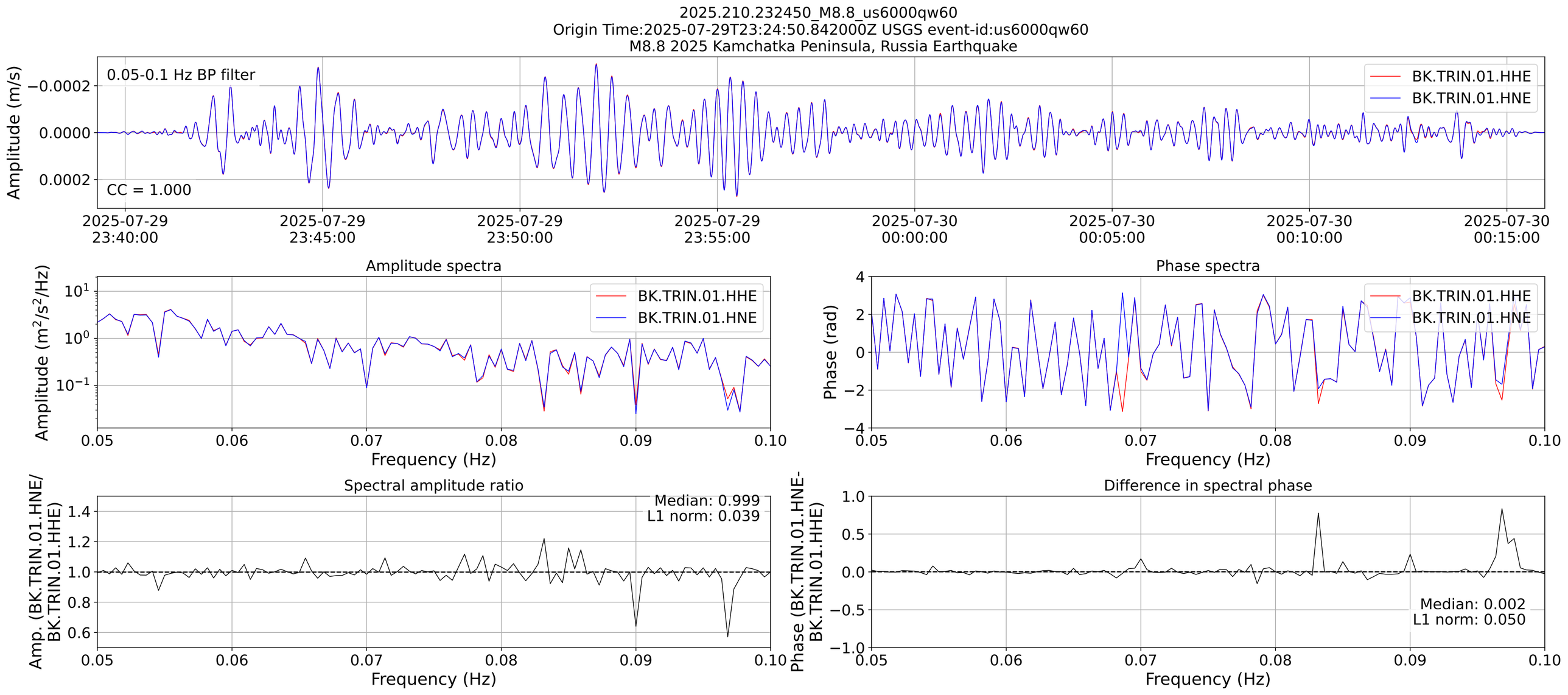

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.THOM.00.HHN
BK.THOM.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNN/ BK.THOM.00.HHN)
Median: 1.002
L1 norm: 0.046
Difference in spectral phase
Phase (BK.THOM.00.HNN- BK.THOM.00.HHN)
Median: -0.002
L1 norm: 0.038

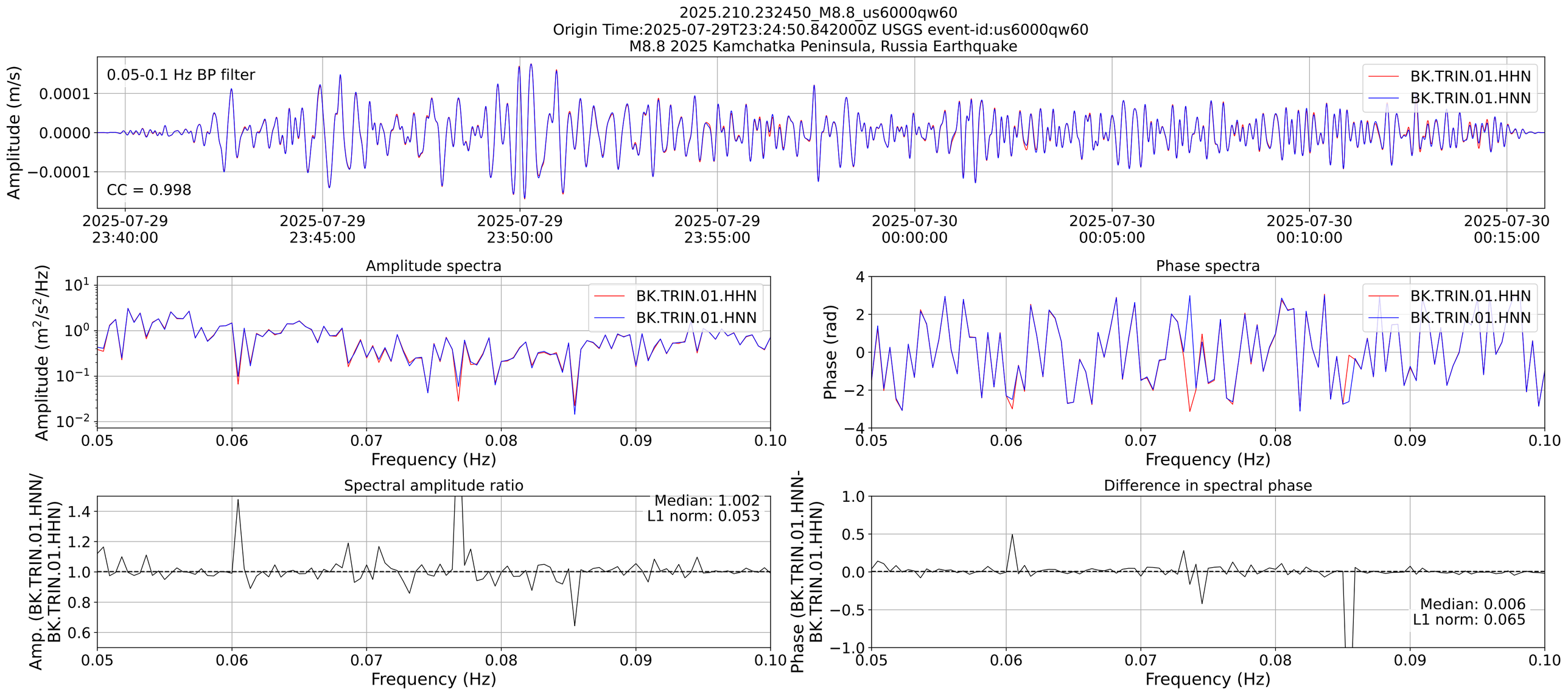

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.THOM.00.HHZ
BK.THOM.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNZ/ BK.THOM.00.HHZ)
Median: 1.003
L1 norm: 0.027
Difference in spectral phase
Phase (BK.THOM.00.HNZ- BK.THOM.00.HHZ)
Median: -0.002
L1 norm: 0.027

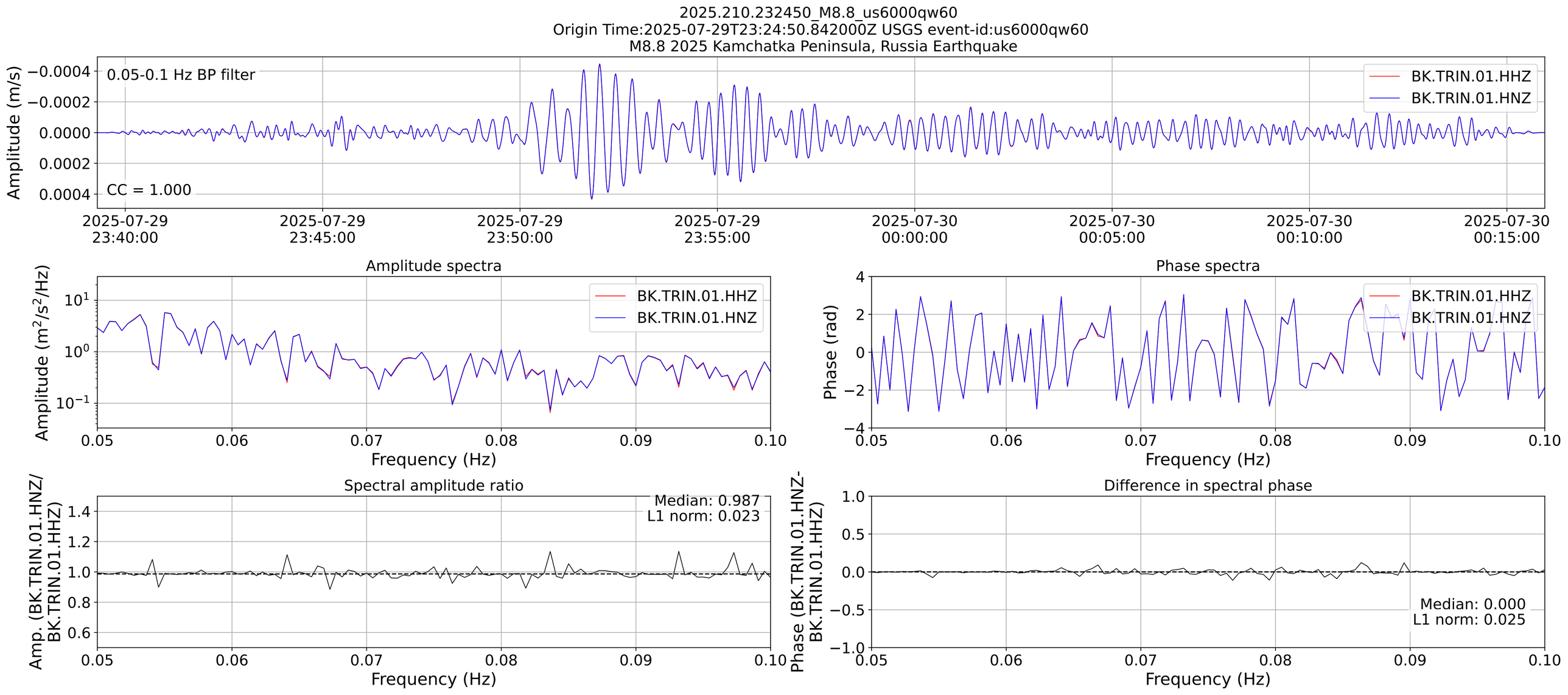

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TOLH.00.HHE
BK.TOLH.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNE/ BK.TOLH.00.HHE)
Median: 0.990
L1 norm: 0.030
Difference in spectral phase
Phase (BK.TOLH.00.HNE- BK.TOLH.00.HHE)
Median: -0.002
L1 norm: 0.034

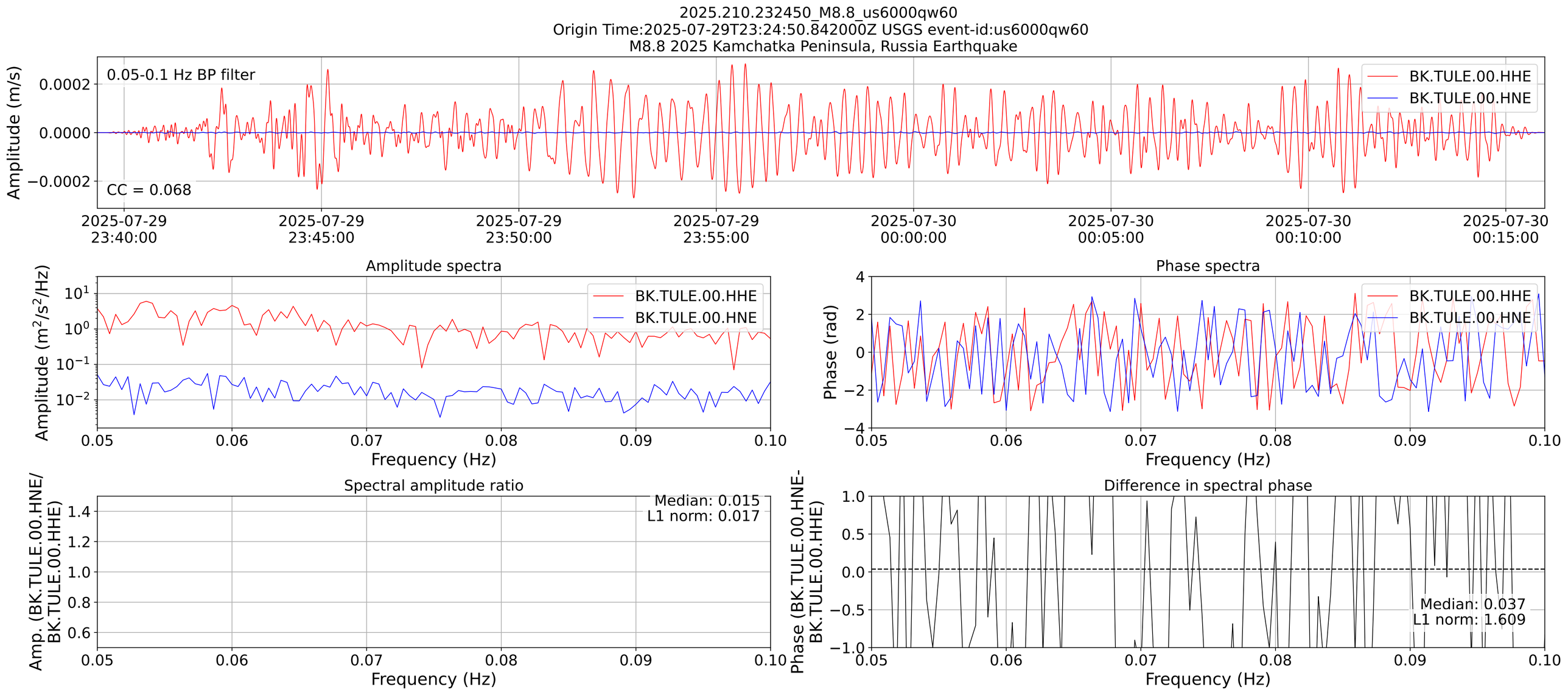

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.TOLH.00.HHN
BK.TOLH.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNN/ BK.TOLH.00.HHN)
Median: 0.995
L1 norm: 0.030
Difference in spectral phase
Phase (BK.TOLH.00.HNN- BK.TOLH.00.HHN)
Median: -0.004
L1 norm: 0.027

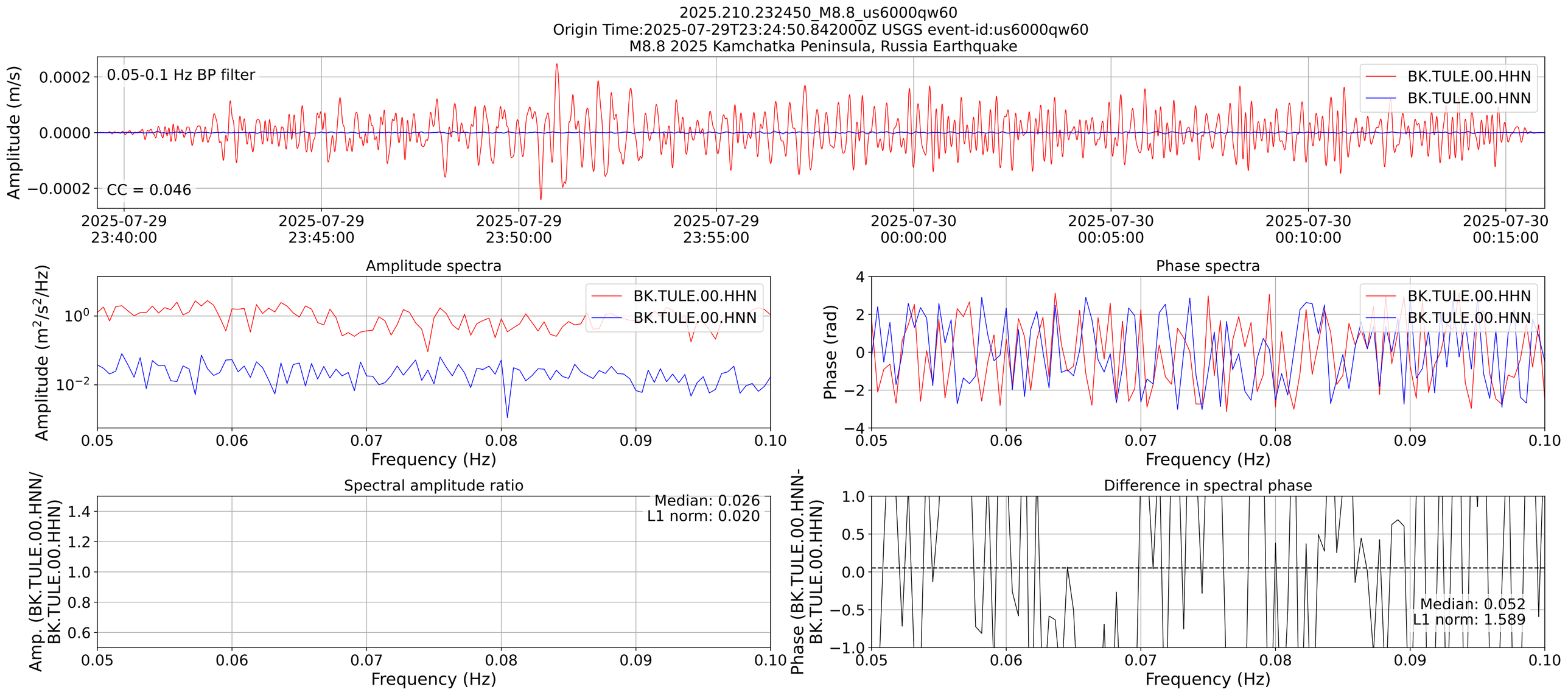

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TOLH.00.HHZ
BK.TOLH.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNZ/ BK.TOLH.00.HHZ)
Median: 0.985
L1 norm: 0.026
Difference in spectral phase
Phase (BK.TOLH.00.HNZ- BK.TOLH.00.HHZ)
Median: -0.009
L1 norm: 0.026

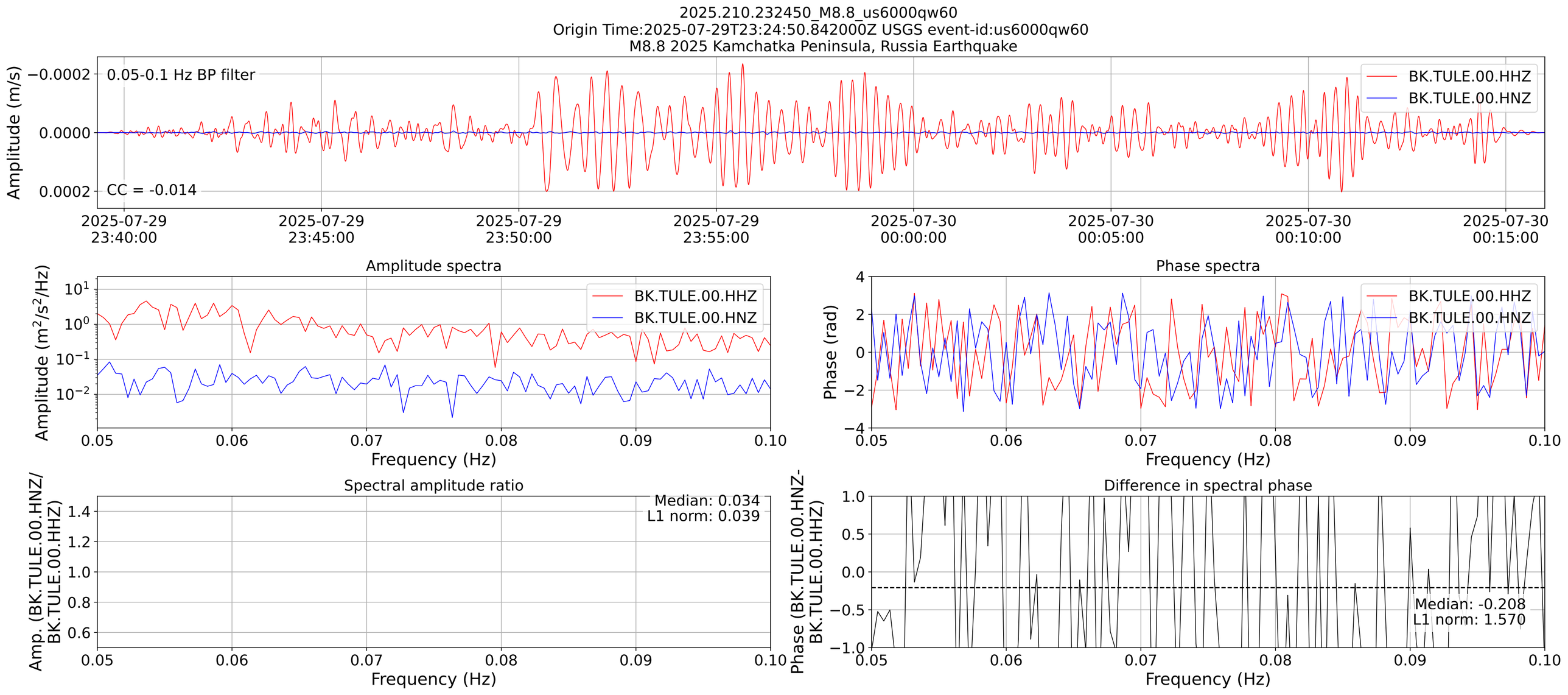

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TRIN.01.HHE
BK.TRIN.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TRIN.01.HNE/ BK.TRIN.01.HHE)
Median: 0.999
L1 norm: 0.039
Difference in spectral phase
Phase (BK.TRIN.01.HNE- BK.TRIN.01.HHE)
Median: 0.002
L1 norm: 0.050

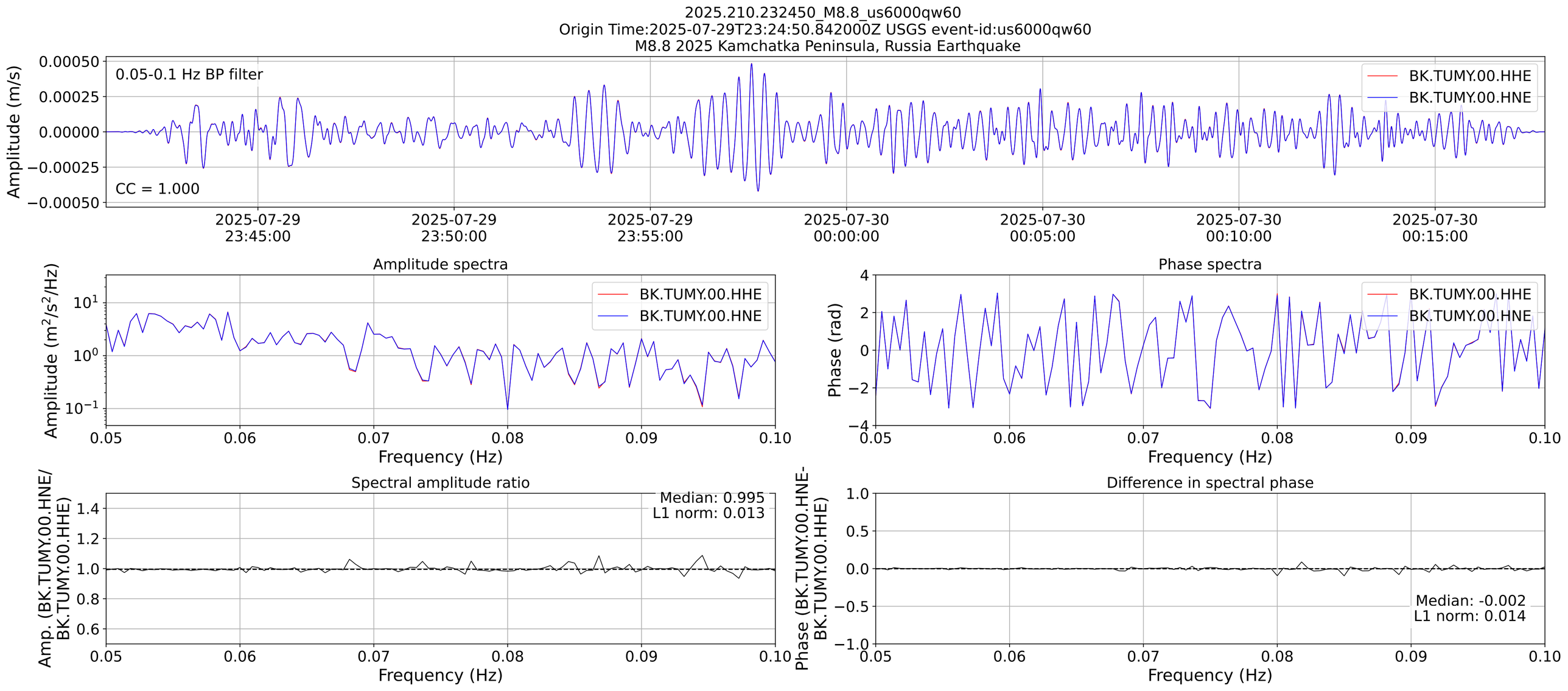

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.TRIN.01.HHN
BK.TRIN.01.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TRIN.01.HNN/ BK.TRIN.01.HHN)
Median: 1.002
L1 norm: 0.053
Difference in spectral phase
Phase (BK.TRIN.01.HNN- BK.TRIN.01.HHN)
Median: 0.006
L1 norm: 0.065

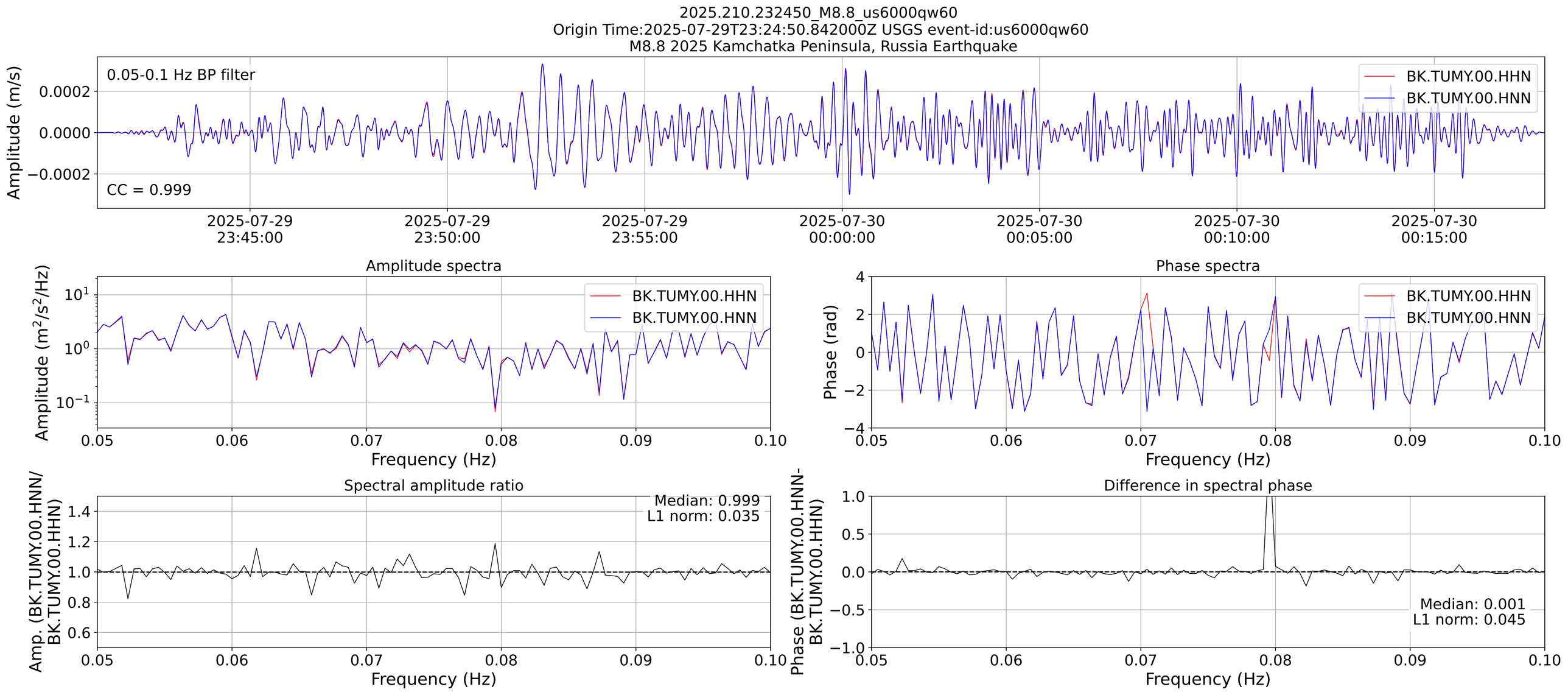

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TRIN.01.HHZ
BK.TRIN.01.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TRIN.01.HNZ/ BK.TRIN.01.HHZ)
Median: 0.987
L1 norm: 0.023
Difference in spectral phase
Phase (BK.TRIN.01.HNZ- BK.TRIN.01.HHZ)
Median: 0.000
L1 norm: 0.025

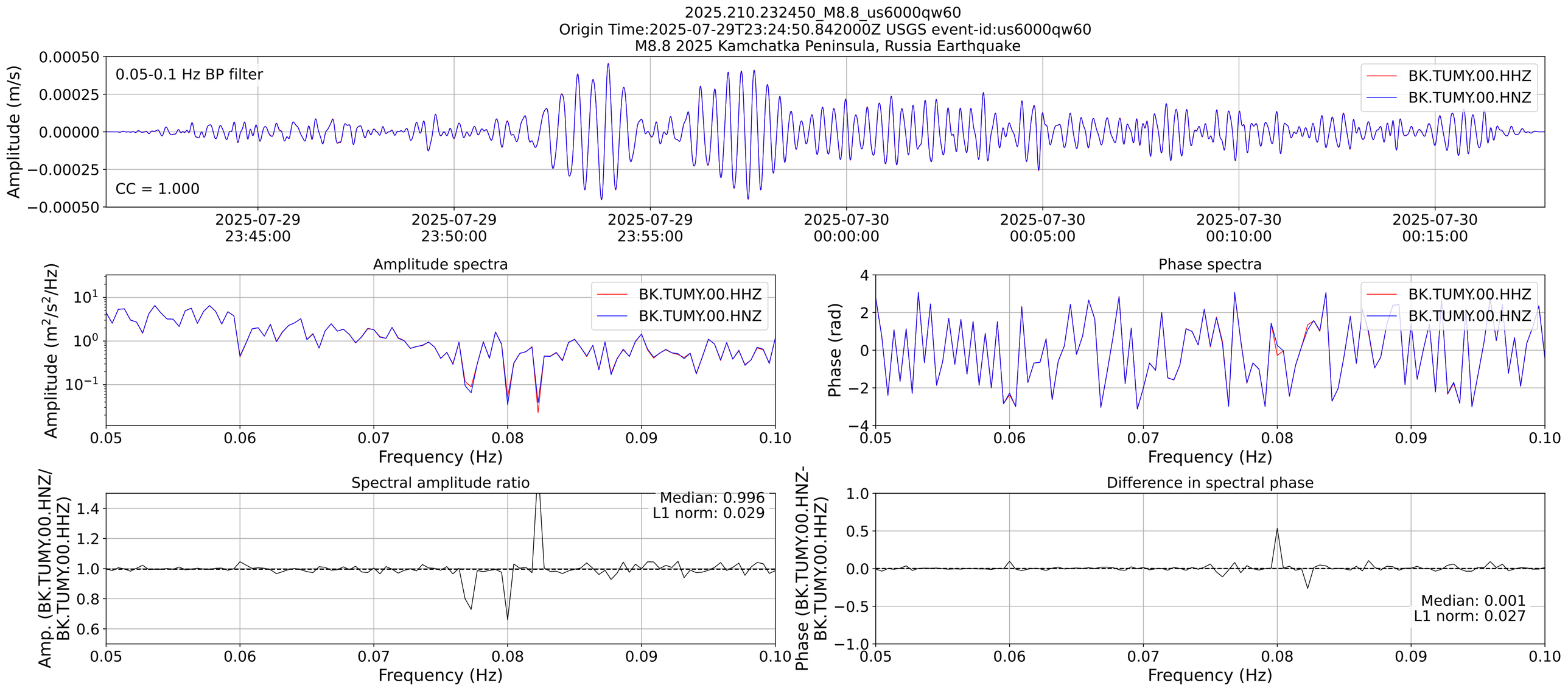

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.068
BK.TULE.00.HHE
BK.TULE.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNE/ BK.TULE.00.HHE)
Median: 0.015
L1 norm: 0.017
Difference in spectral phase
Phase (BK.TULE.00.HNE- BK.TULE.00.HHE)
Median: 0.037
L1 norm: 1.609

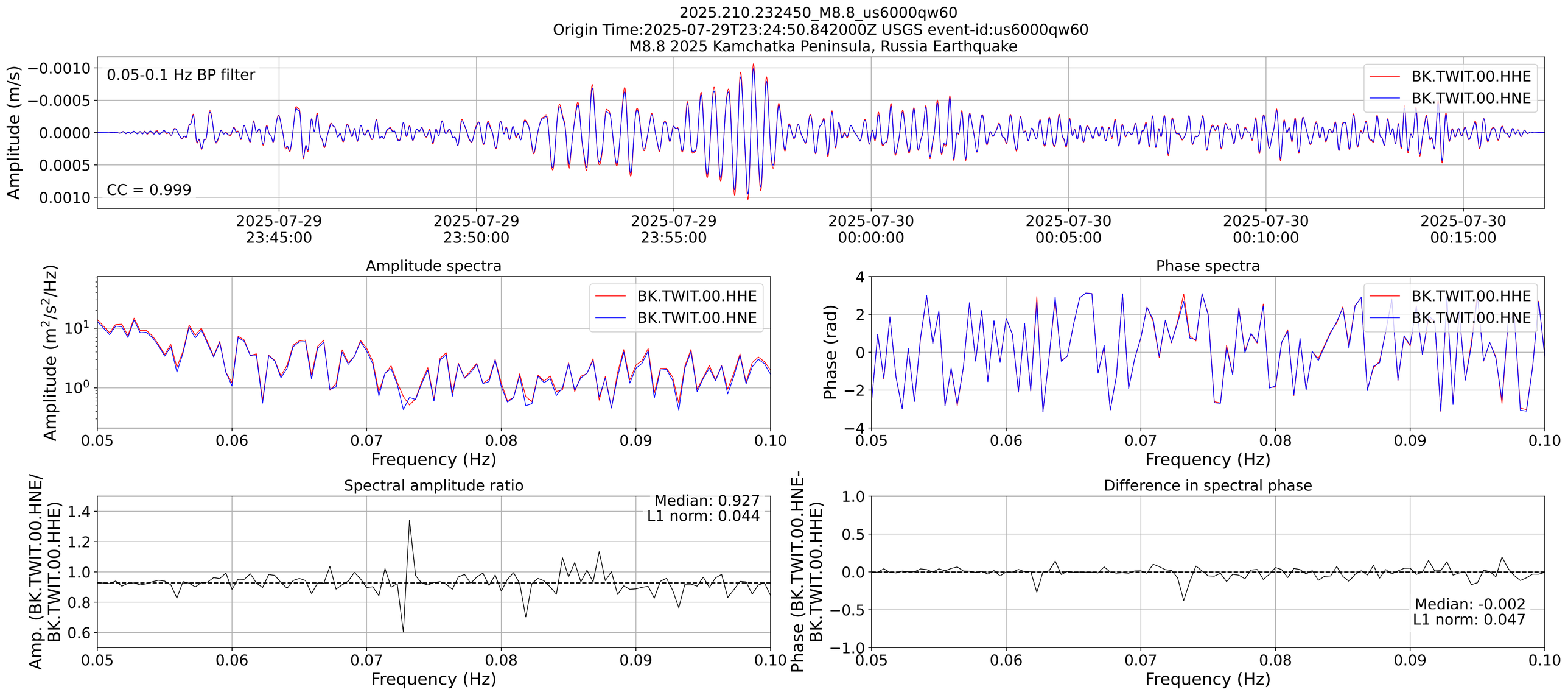

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.046
BK.TULE.00.HHN
BK.TULE.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNN/ BK.TULE.00.HHN)
Median: 0.026
L1 norm: 0.020
Difference in spectral phase
Phase (BK.TULE.00.HNN- BK.TULE.00.HHN)
Median: 0.052
L1 norm: 1.589

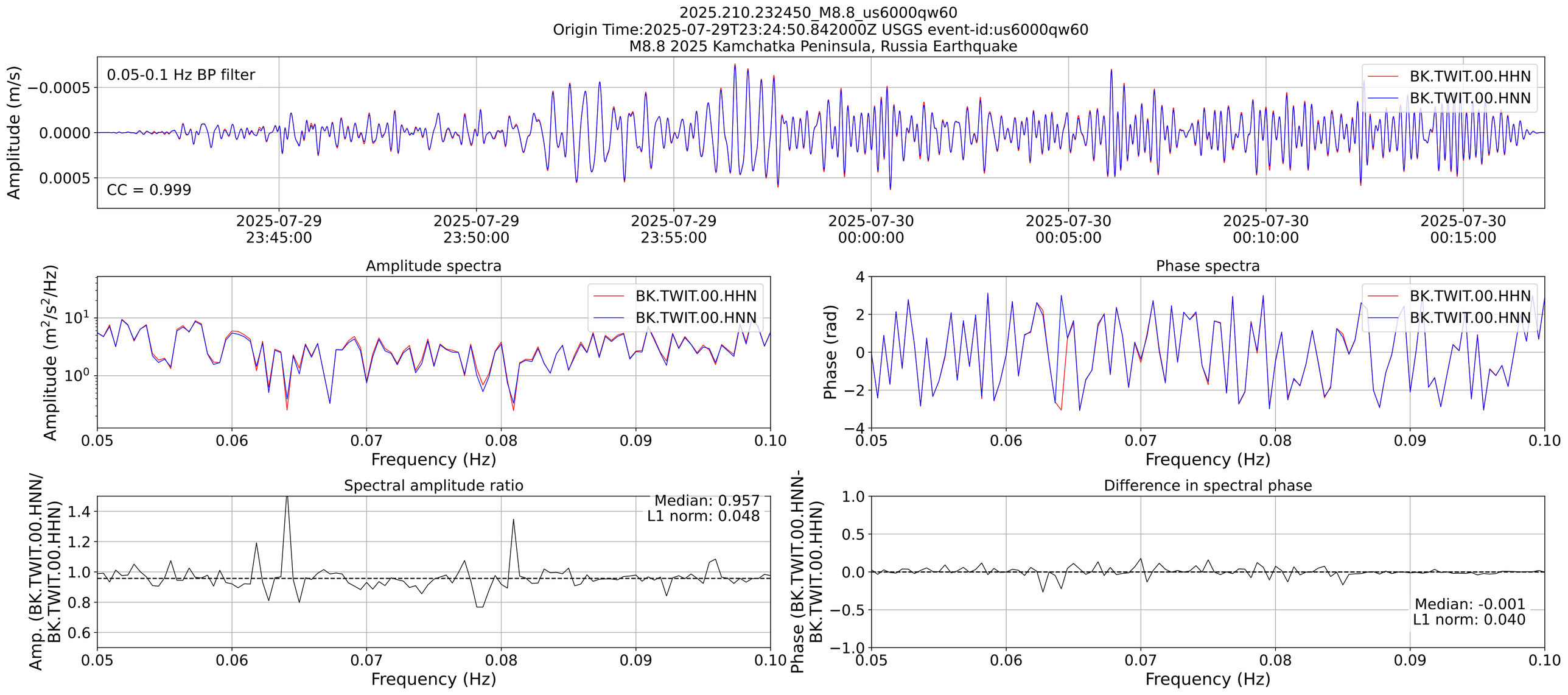

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.014
BK.TULE.00.HHZ
BK.TULE.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNZ/ BK.TULE.00.HHZ)
Median: 0.034
L1 norm: 0.039
Difference in spectral phase
Phase (BK.TULE.00.HNZ- BK.TULE.00.HHZ)
Median: -0.208
L1 norm: 1.570

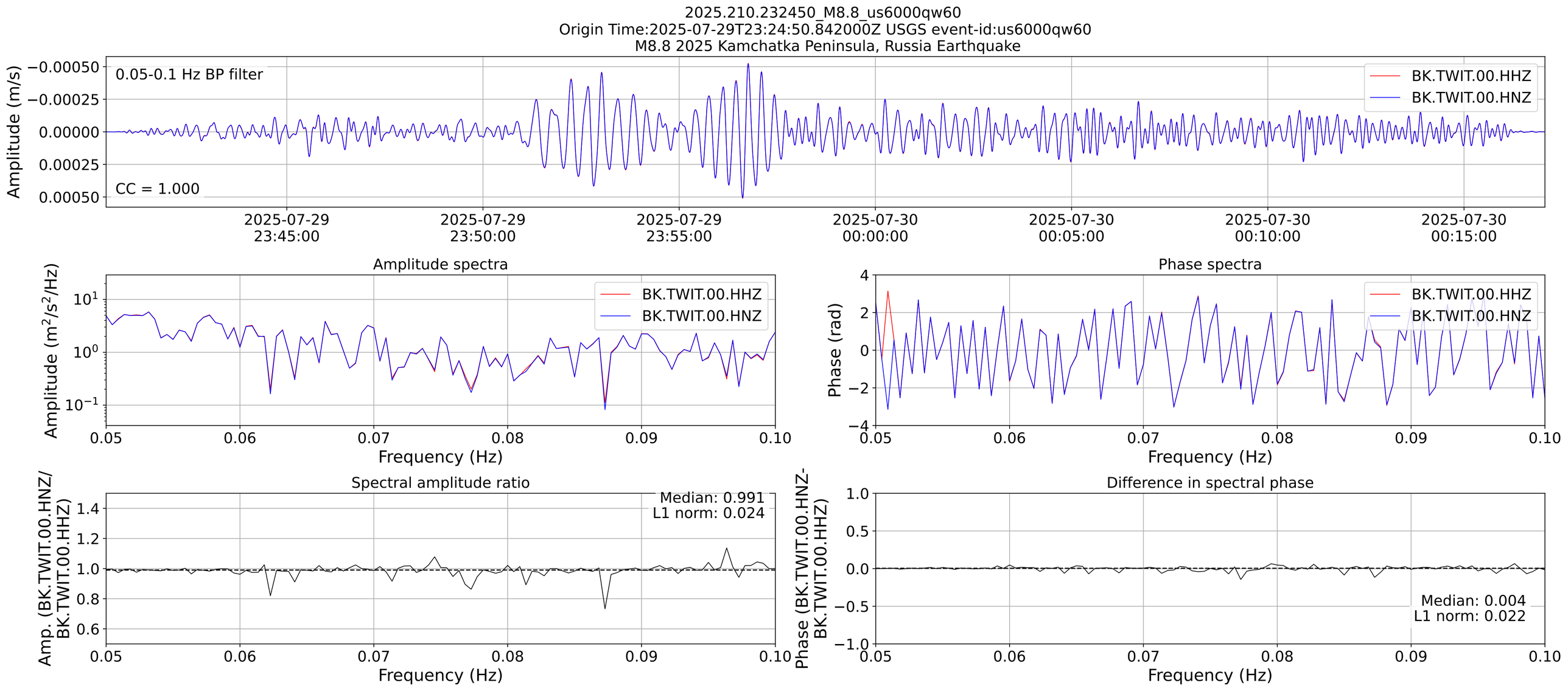

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TUMY.00.HHE
BK.TUMY.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNE/ BK.TUMY.00.HHE)
Median: 0.995
L1 norm: 0.013
Difference in spectral phase
Phase (BK.TUMY.00.HNE- BK.TUMY.00.HHE)
Median: -0.002
L1 norm: 0.014

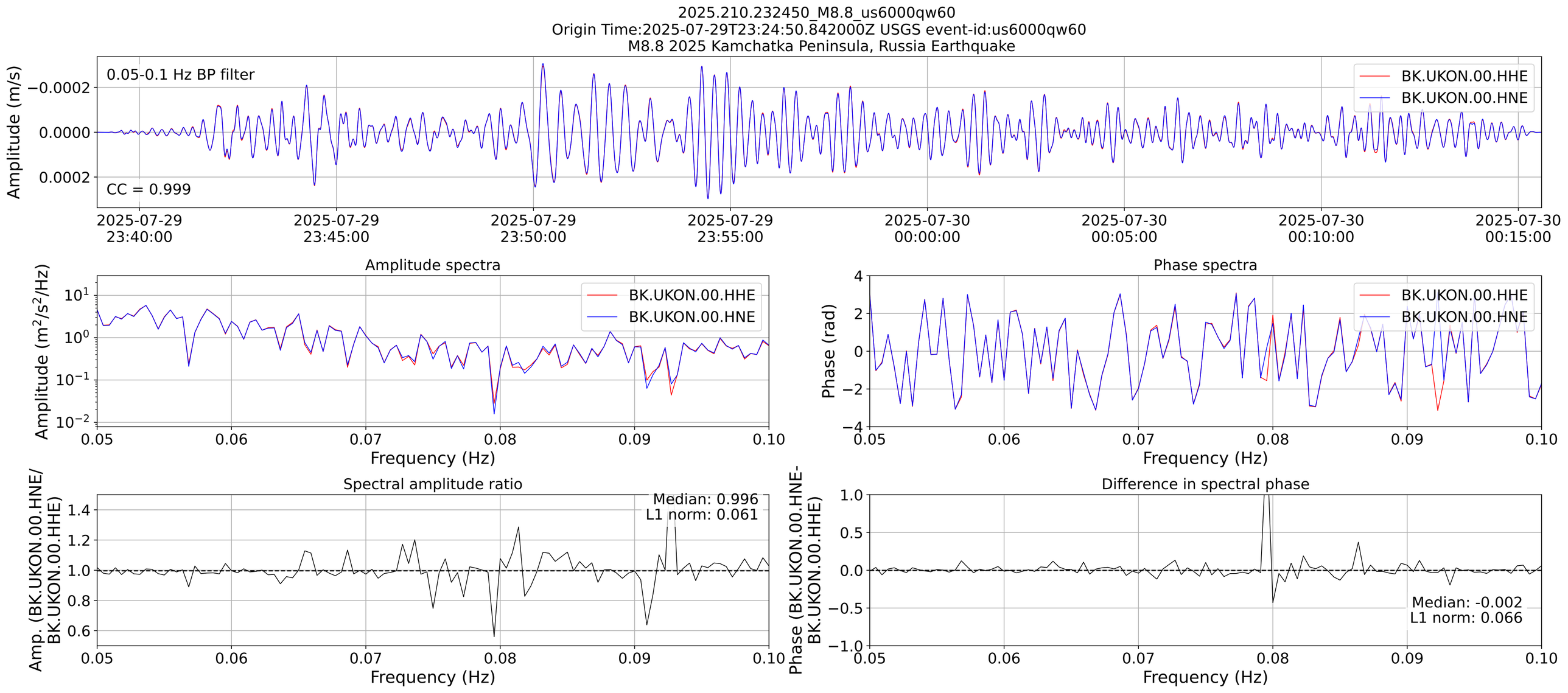

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.TUMY.00.HHN
BK.TUMY.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNN/ BK.TUMY.00.HHN)
Median: 0.999
L1 norm: 0.035
Difference in spectral phase
Phase (BK.TUMY.00.HNN- BK.TUMY.00.HHN)
Median: 0.001
L1 norm: 0.045

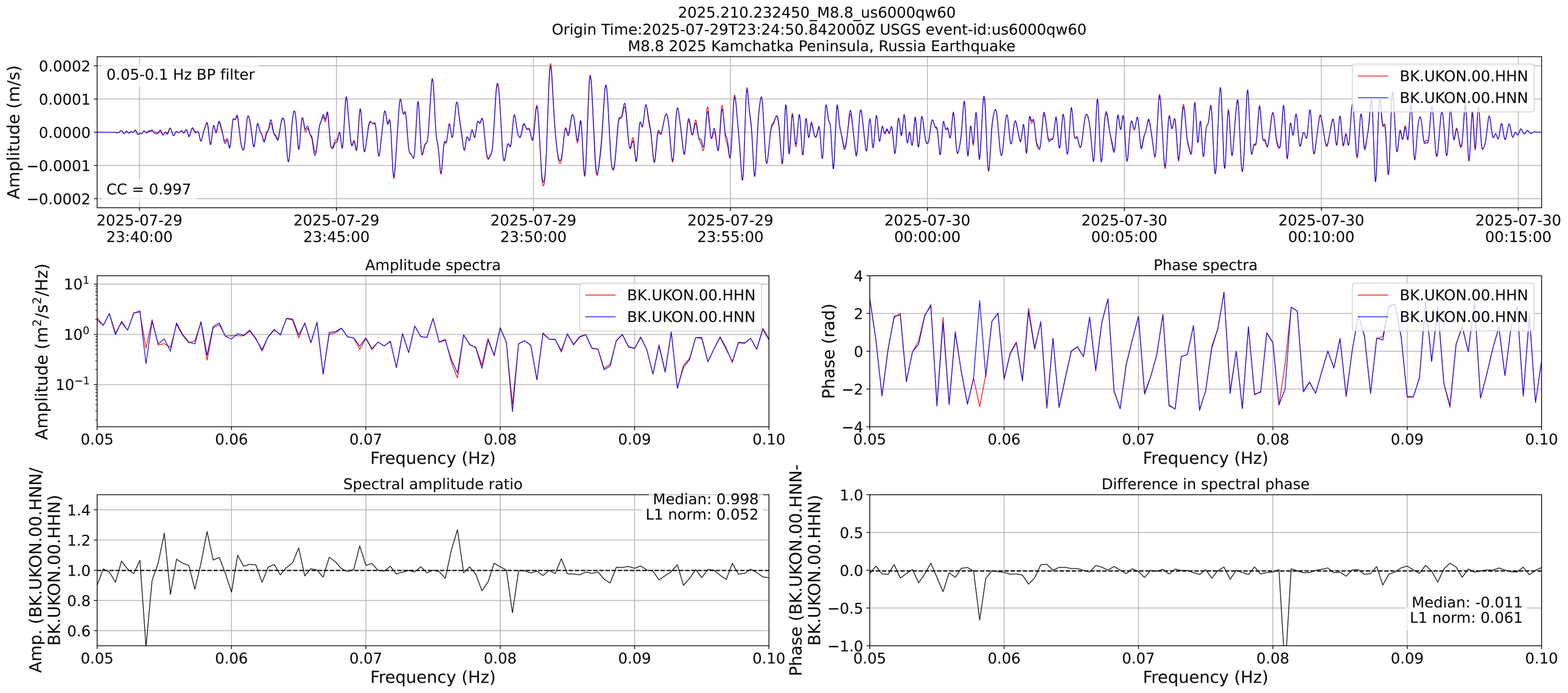

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TUMY.00.HHZ
BK.TUMY.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNZ/ BK.TUMY.00.HHZ)
Median: 0.996
L1 norm: 0.029
Difference in spectral phase
Phase (BK.TUMY.00.HNZ-BK.TUMY.00.HHZ)
Median: 0.001
L1 norm: 0.027

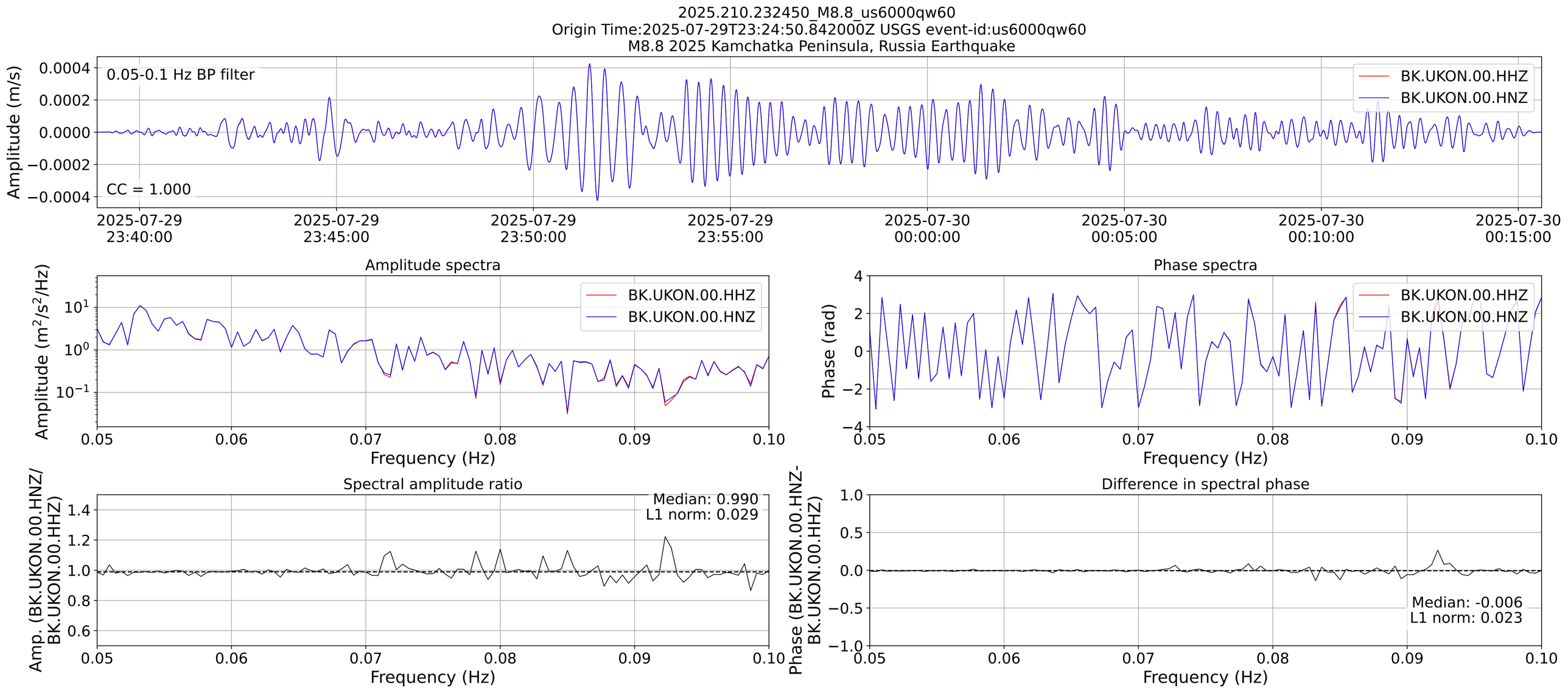

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.TWIT.00.HHE
BK.TWIT.00.HNE
Amplitude (m/s)
−0.0010
−0.0005
0.0000
0.0005
0.0010
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNE/ BK.TWIT.00.HHE)
Median: 0.927
L1 norm: 0.044
Difference in spectral phase
Phase (BK.TWIT.00.HNE- BK.TWIT.00.HHE)
Median: -0.002
L1 norm: 0.047

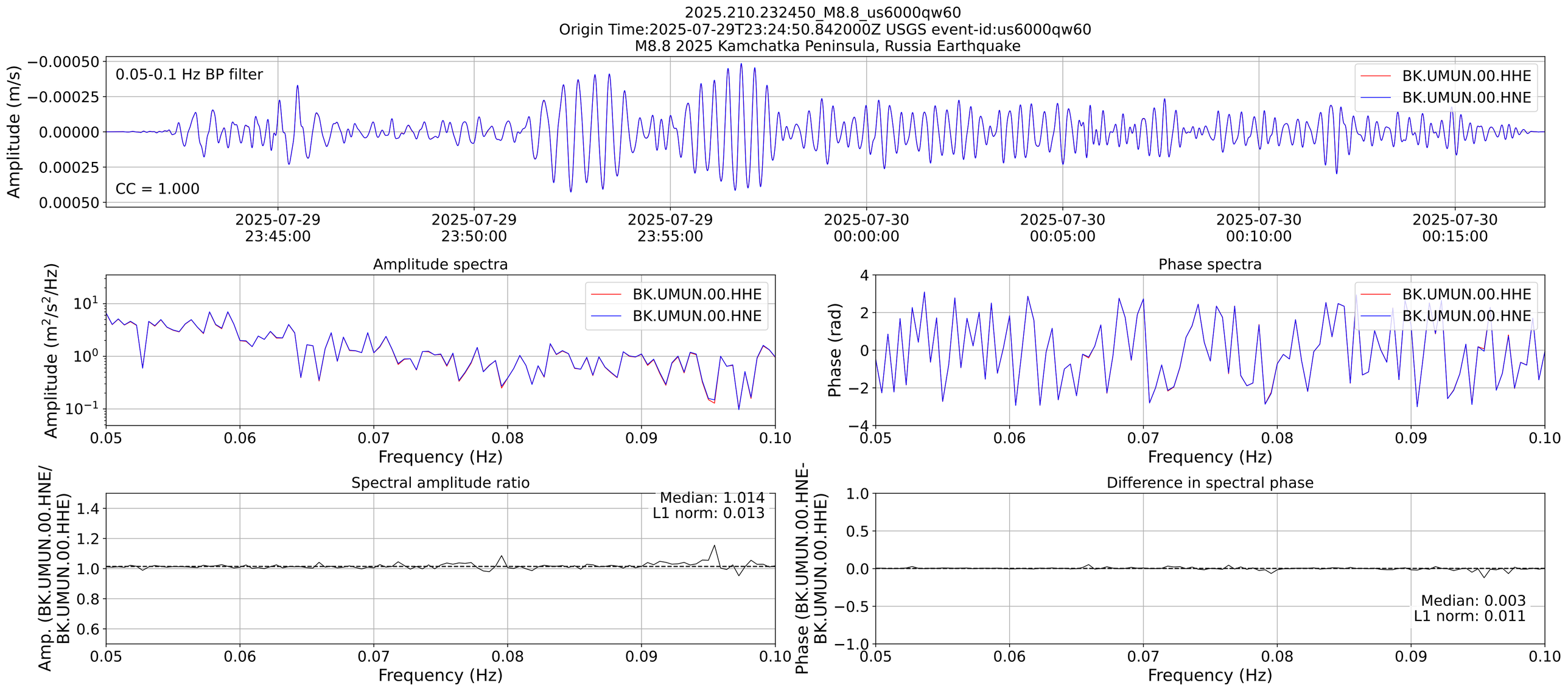

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.TWIT.00.HHN
BK.TWIT.00.HNN
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNN/ BK.TWIT.00.HHN)
Median: 0.957
L1 norm: 0.048
Difference in spectral phase
Phase (BK.TWIT.00.HNN- BK.TWIT.00.HHN)
Median: -0.001
L1 norm: 0.040

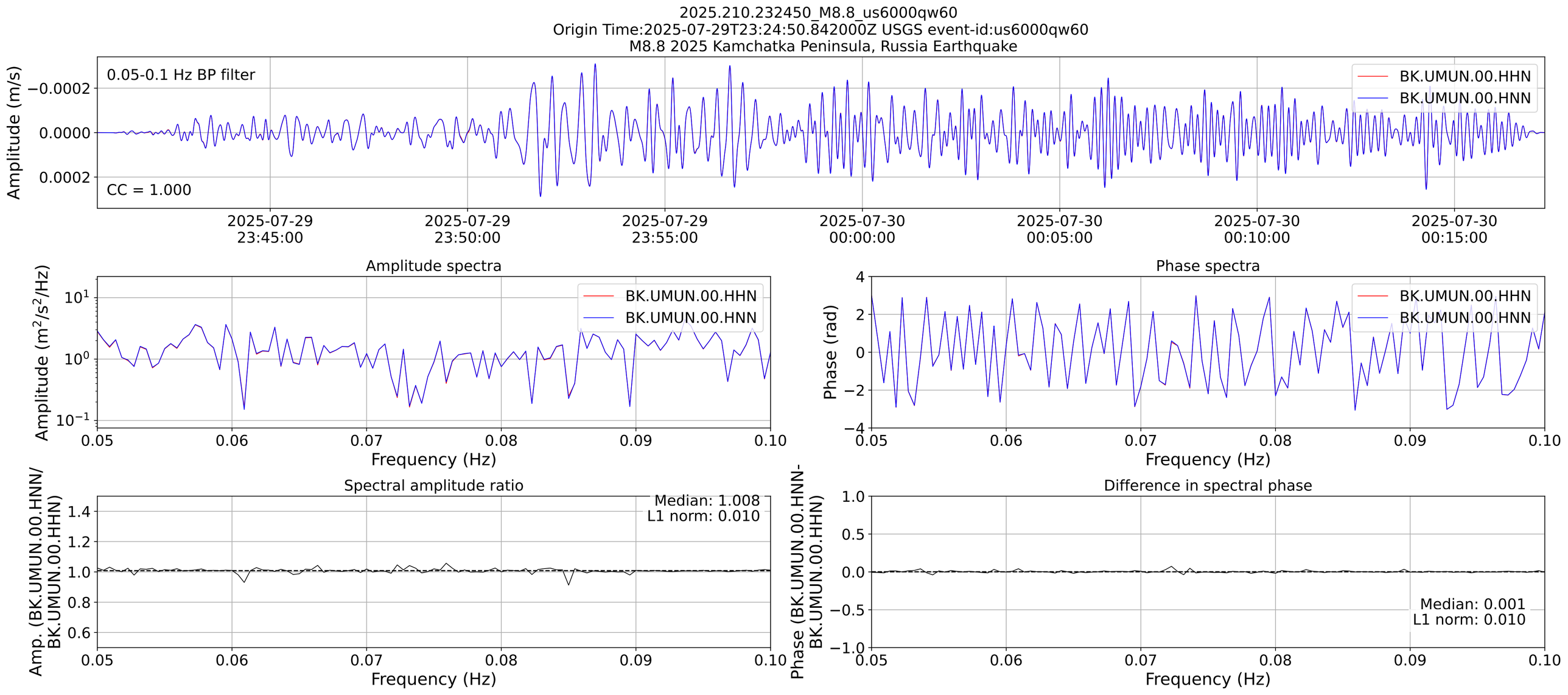

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.TWIT.00.HHZ
BK.TWIT.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNZ/ BK.TWIT.00.HHZ)
Median: 0.991
L1 norm: 0.024
Frequency (Hz)
Difference in spectral phase
Phase (BK.TWIT.00.HNZ- BK.TWIT.00.HHZ)
Median: 0.004
L1 norm: 0.022
Frequency (Hz)

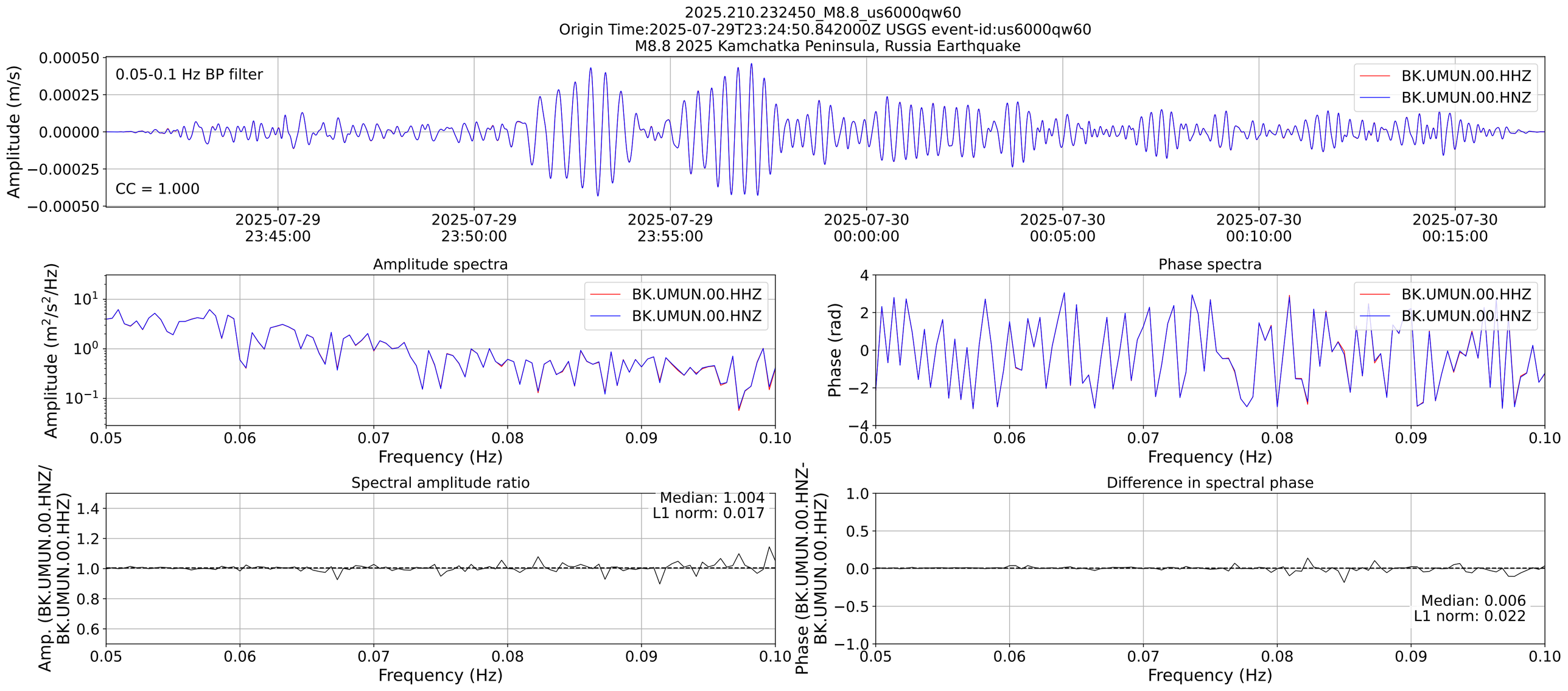

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.UKON.00.HHE
BK.UKON.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNE/ BK.UKON.00.HHE)
Median: 0.996
L1 norm: 0.061
Difference in spectral phase
Phase (BK.UKON.00.HNE- BK.UKON.00.HHE)
Median: -0.002
L1 norm: 0.066

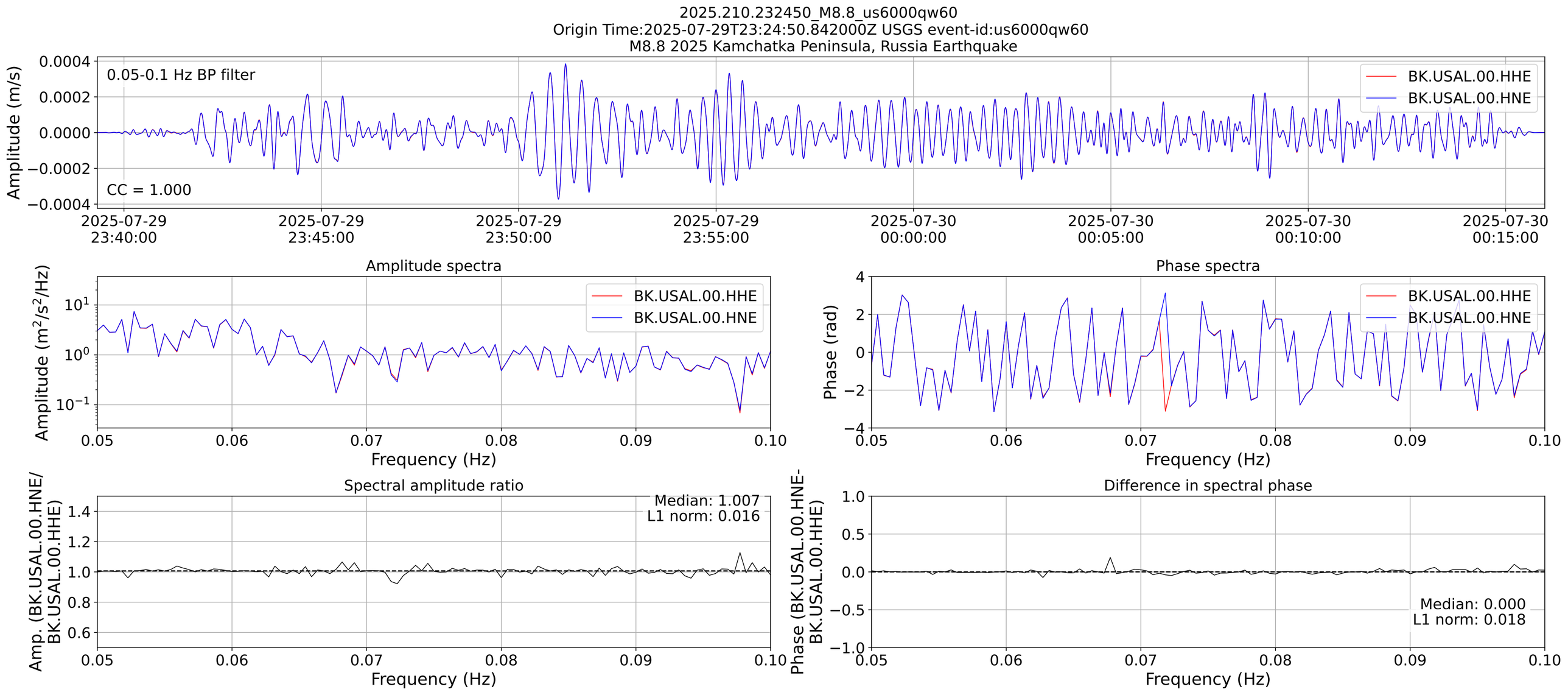

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.UKON.00.HHN
BK.UKON.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNN/ BK.UKON.00.HHN)
Median: 0.998
L1 norm: 0.052
Difference in spectral phase
Phase (BK.UKON.00.HNN- BK.UKON.00.HHN)
Median: -0.011
L1 norm: 0.061

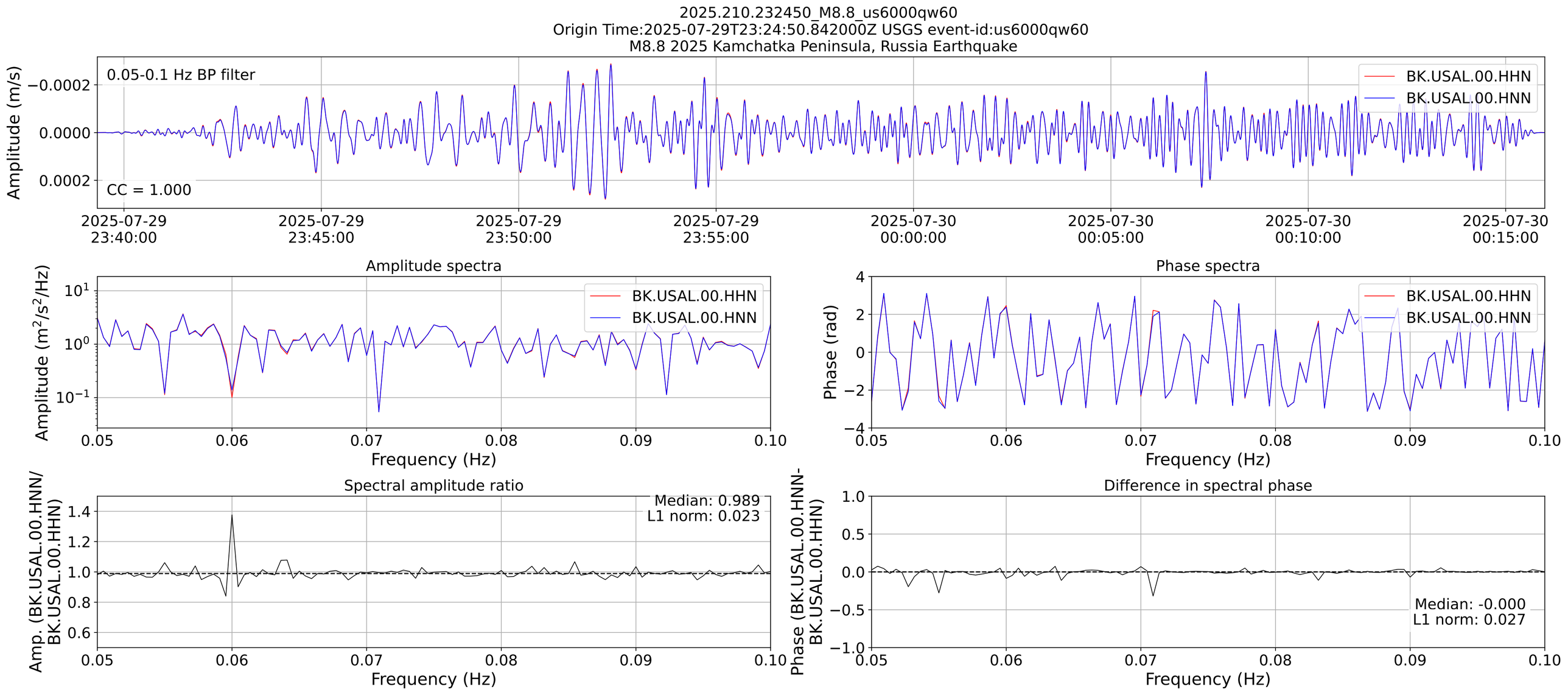

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.UKON.00.HHZ
BK.UKON.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNZ/ BK.UKON.00.HHZ)
Median: 0.990
L1 norm: 0.029
Difference in spectral phase
Phase (BK.UKON.00.HNZ- BK.UKON.00.HHZ)
Median: -0.006
L1 norm: 0.023

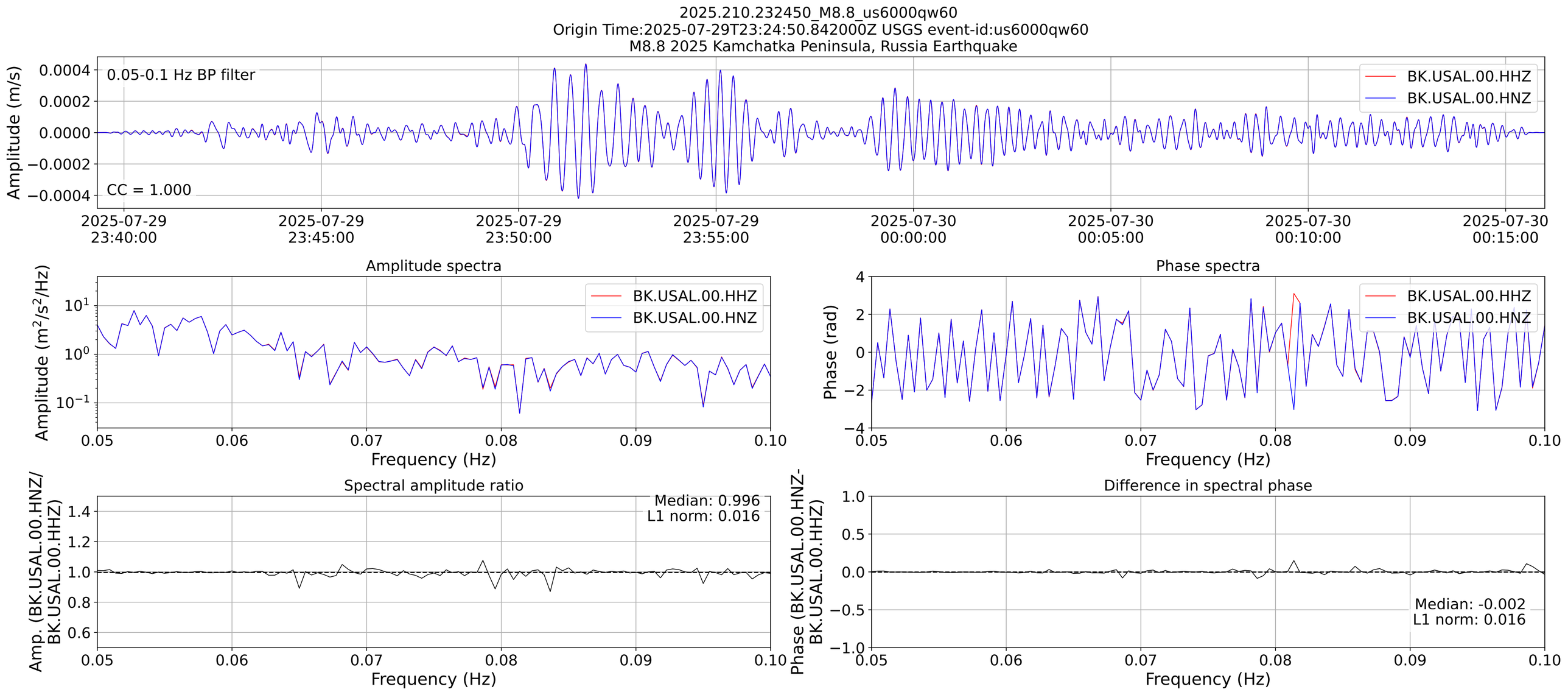

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.UMUN.00.HHE
BK.UMUN.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNE/ BK.UMUN.00.HHE)
Median: 1.014
L1 norm: 0.013
Difference in spectral phase
Phase (BK.UMUN.00.HNE- BK.UMUN.00.HHE)
Median: 0.003
L1 norm: 0.011

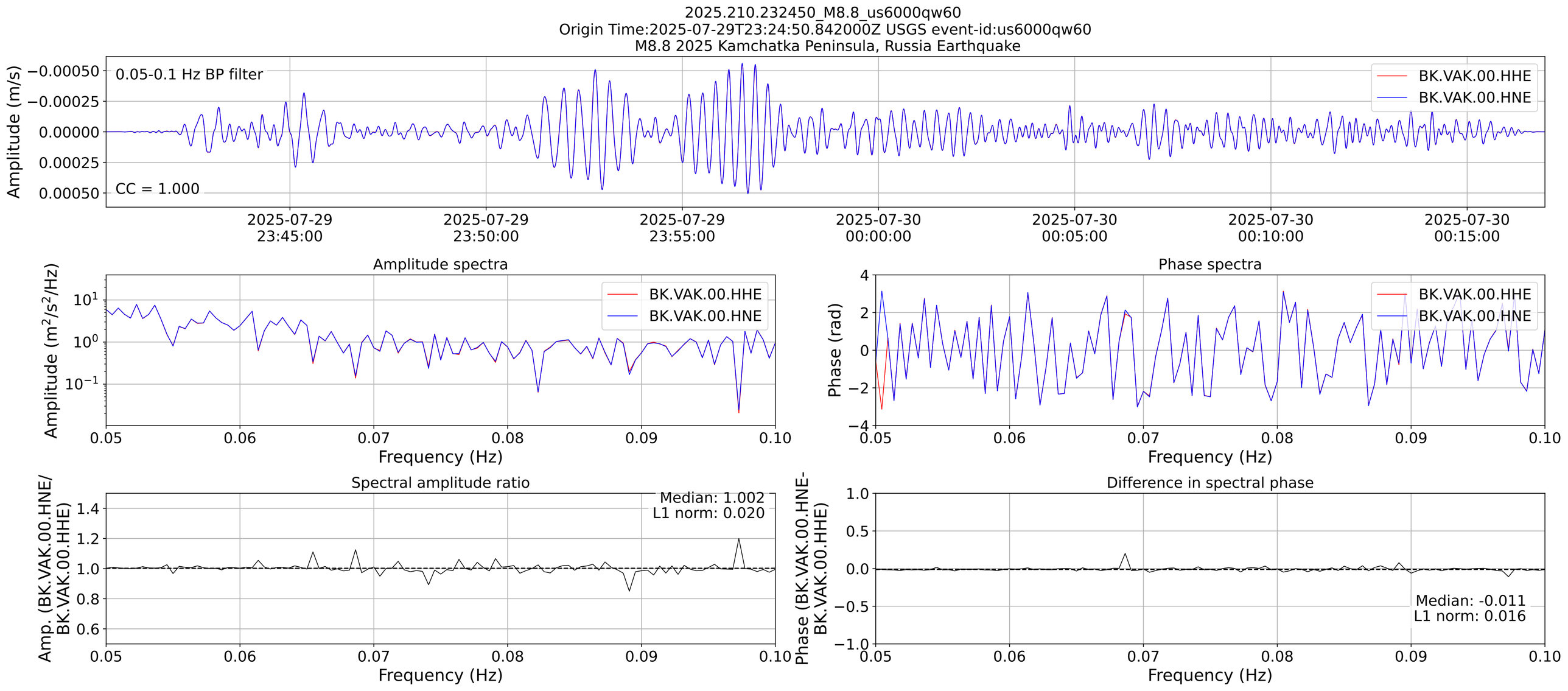

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.UMUN.00.HHN
BK.UMUN.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNN/ BK.UMUN.00.HHN)
Median: 1.008
L1 norm: 0.010
Difference in spectral phase
Phase (BK.UMUN.00.HNN- BK.UMUN.00.HHN)
Median: 0.001
L1 norm: 0.010

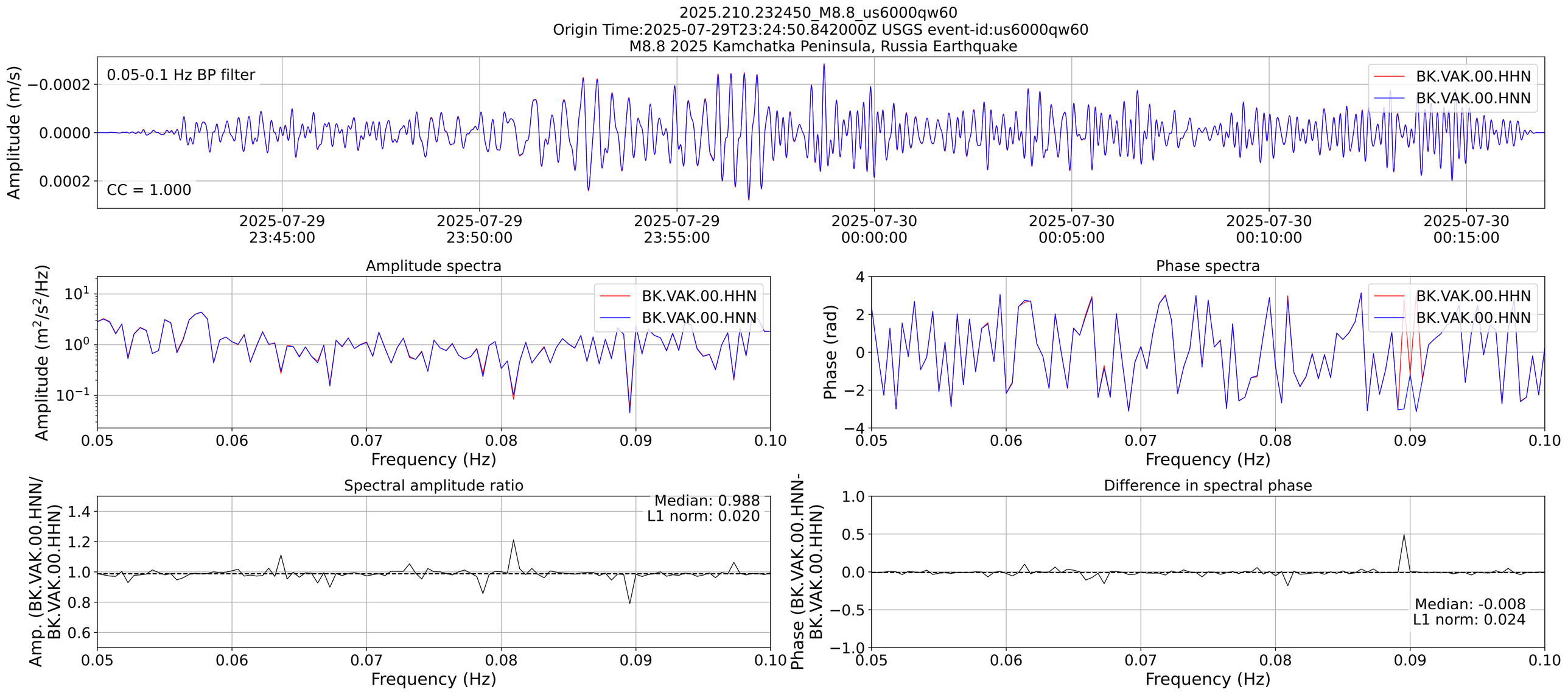

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.UMUN.00.HHZ
BK.UMUN.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNZ/ BK.UMUN.00.HHZ)
Median: 1.004
L1 norm: 0.017
Difference in spectral phase
Phase (BK.UMUN.00.HNZ- BK.UMUN.00.HHZ)
Median: 0.006
L1 norm: 0.022

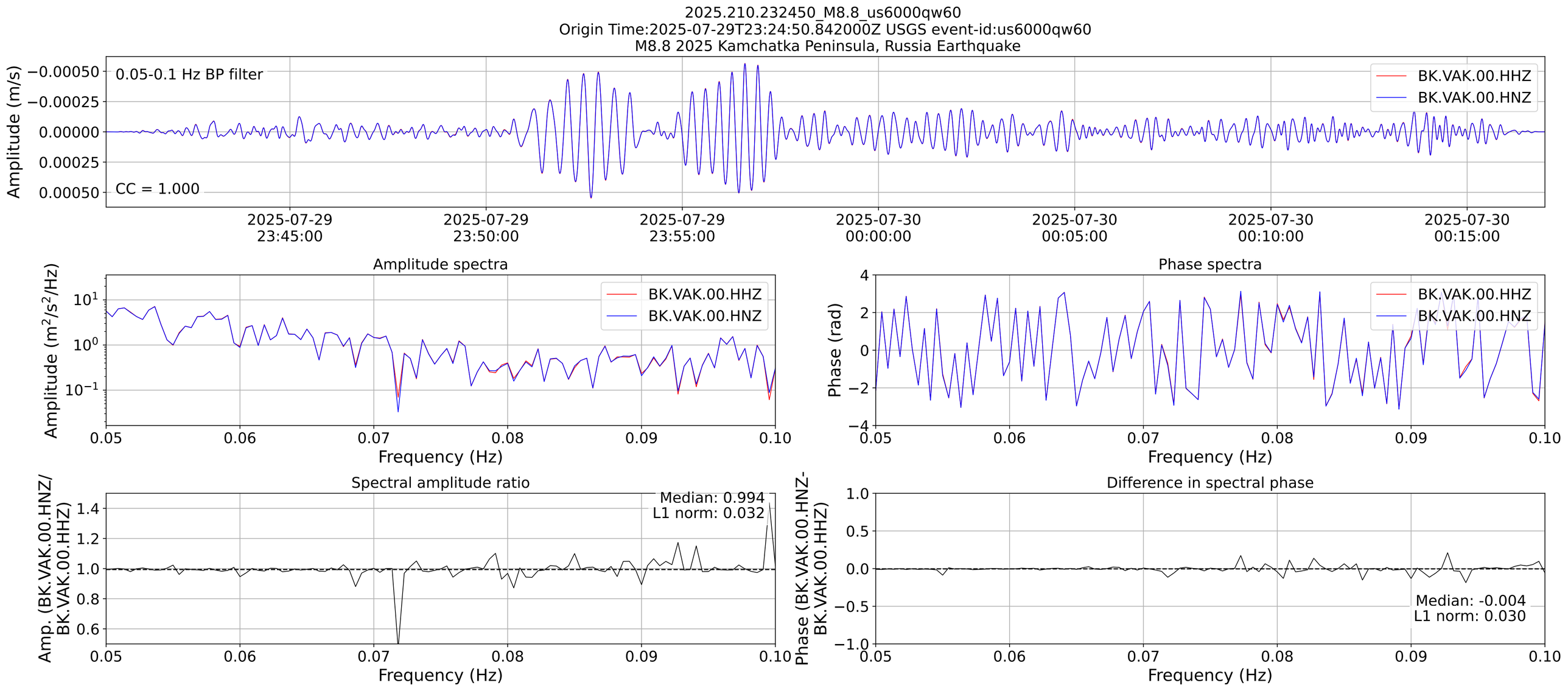

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.USAL.00.HHE
BK.USAL.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNE/ BK.USAL.00.HHE)
Median: 1.007
L1 norm: 0.016
Difference in spectral phase
Phase (BK.USAL.00.HNE- BK.USAL.00.HHE)
Median: 0.000
L1 norm: 0.018

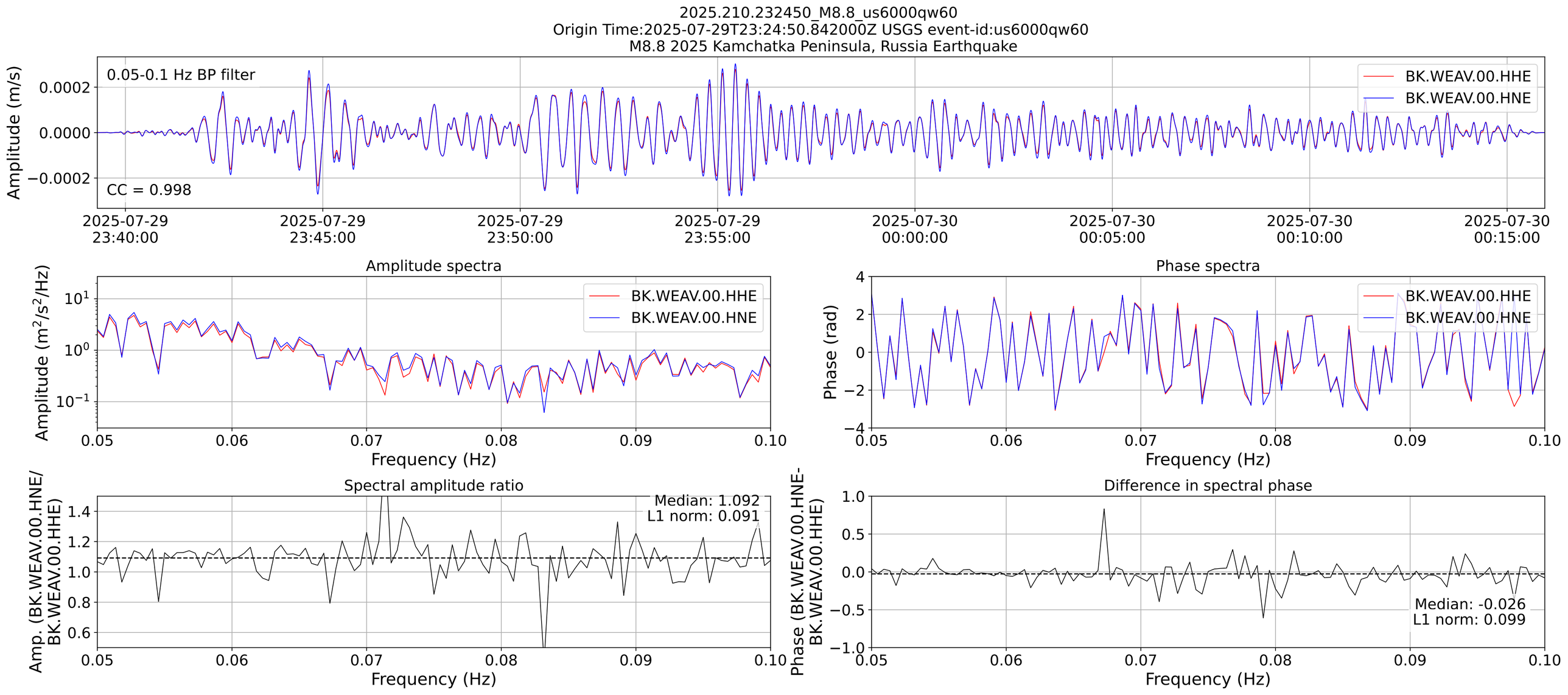

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.USAL.00.HHN
BK.USAL.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNN/ BK.USAL.00.HHN)
Median: 0.989
L1 norm: 0.023
Difference in spectral phase
Phase (BK.USAL.00.HNN- BK.USAL.00.HHN)
Median: -0.000
L1 norm: 0.027

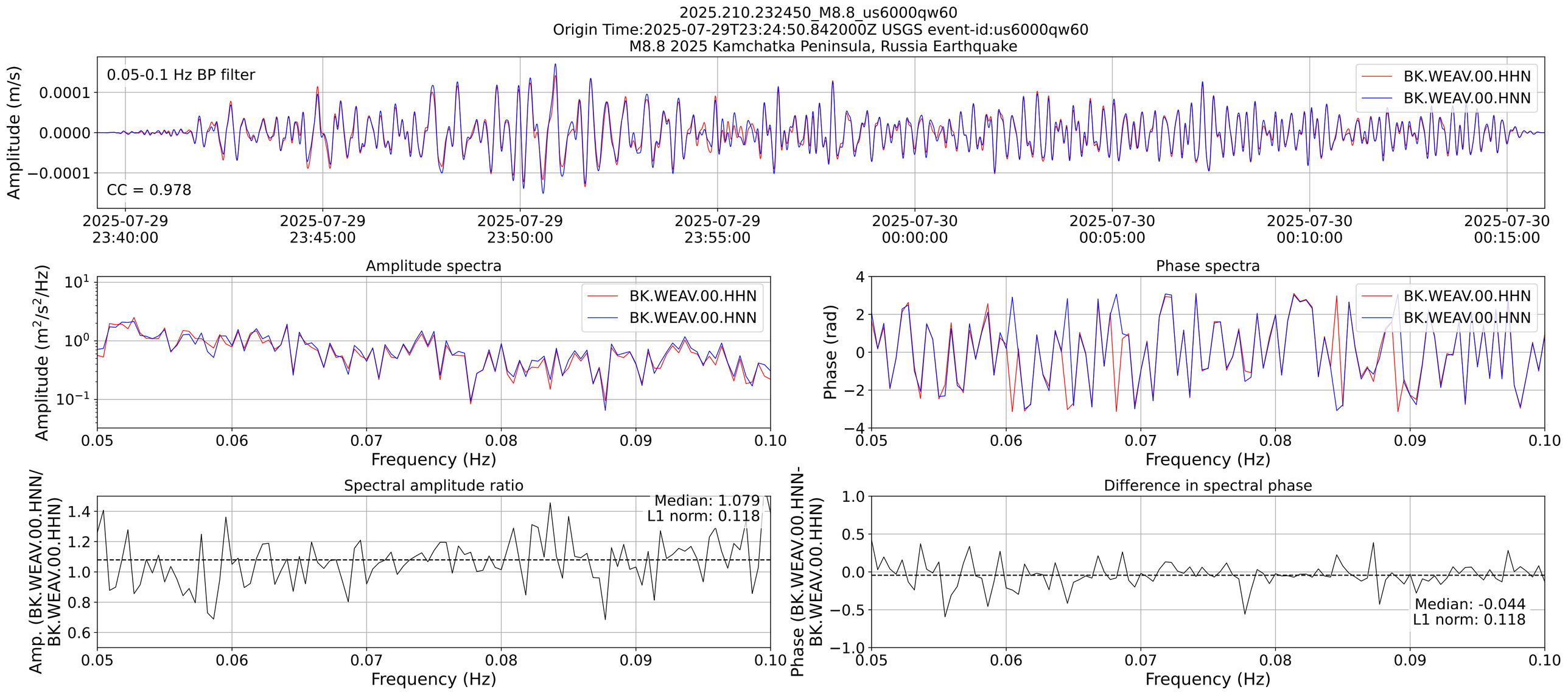

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.USAL.00.HHZ
BK.USAL.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNZ/ BK.USAL.00.HHZ)
Median: 0.996
L1 norm: 0.016
Difference in spectral phase
Phase (BK.USAL.00.HNZ- BK.USAL.00.HHZ)
Median: -0.002
L1 norm: 0.016

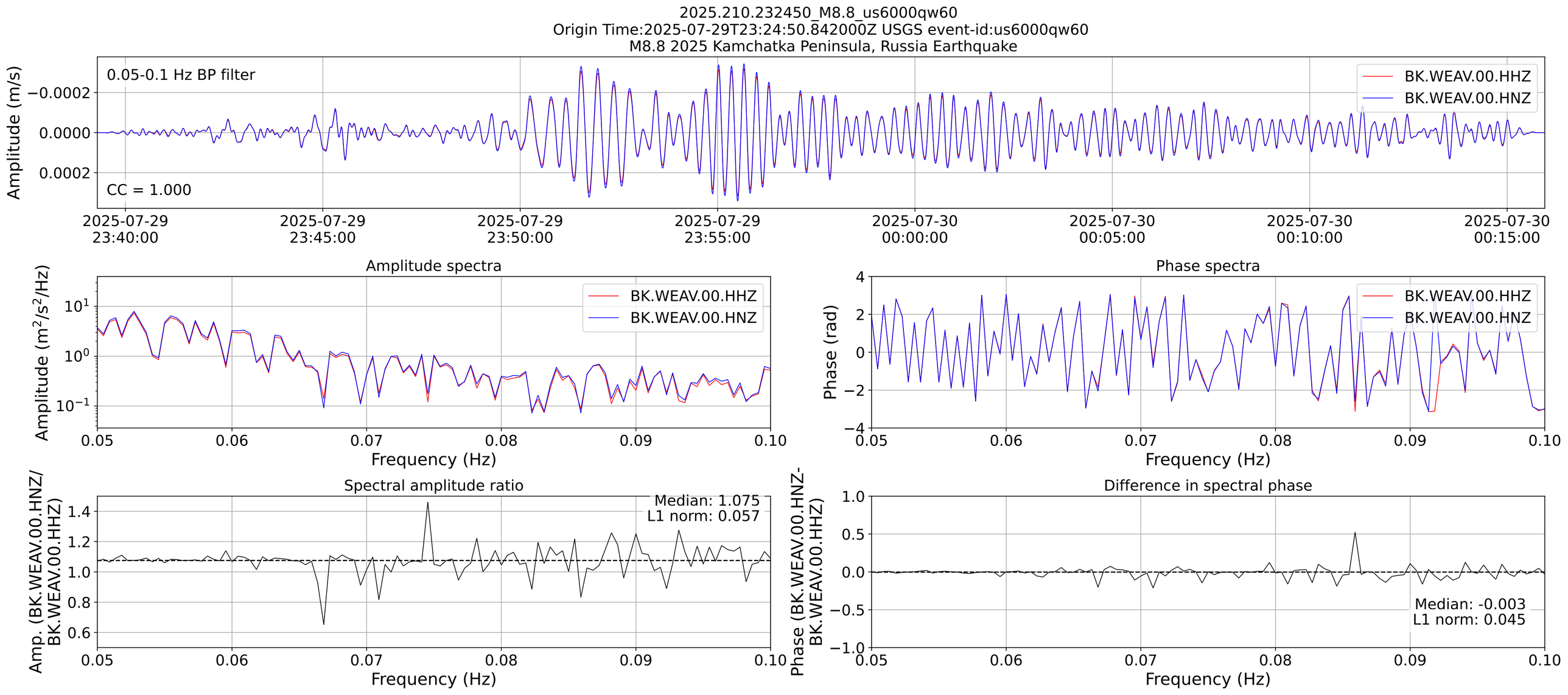

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.VAK.00.HHE
BK.VAK.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNE/ BK.VAK.00.HHE)
Median: 1.002
L1 norm: 0.020
Difference in spectral phase
Phase (BK.VAK.00.HNE- BK.VAK.00.HHE)
Median: -0.011
L1 norm: 0.016

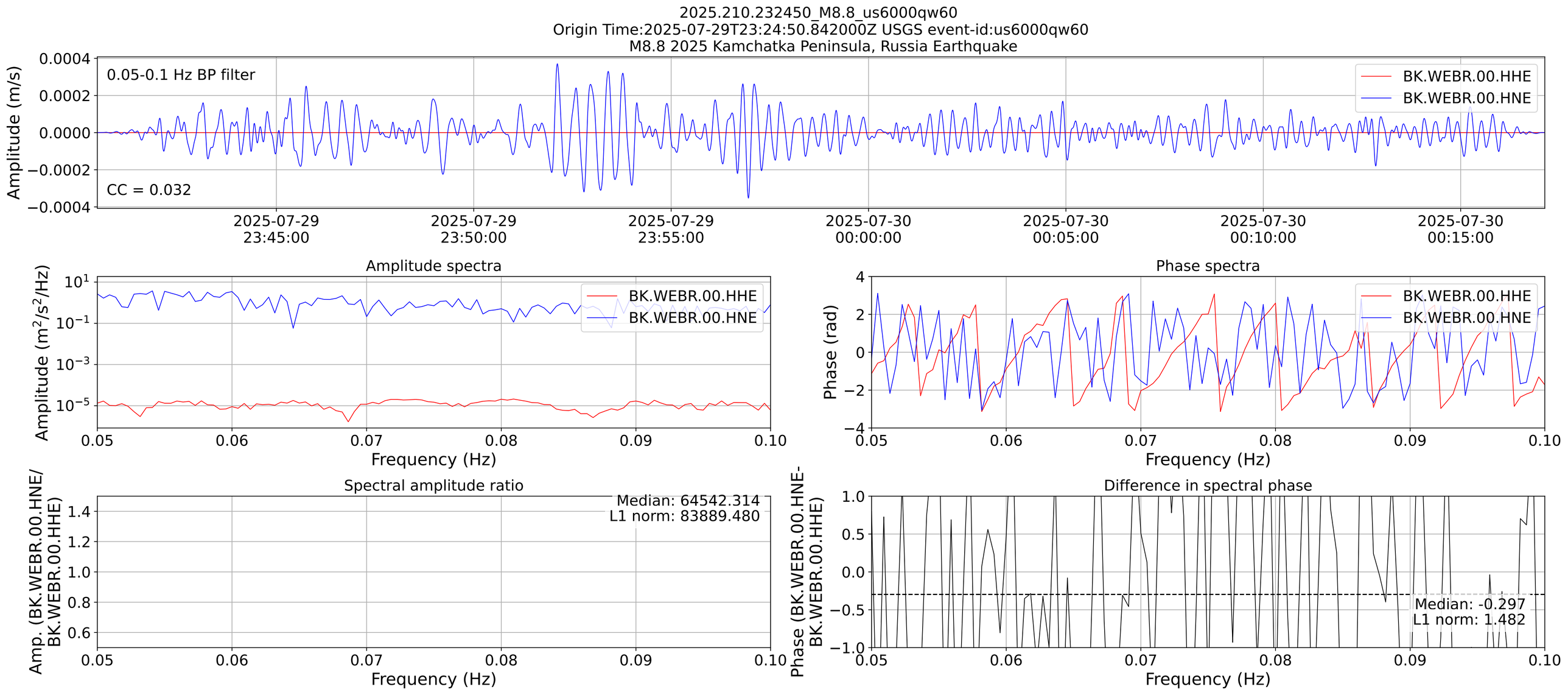

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.VAK.00.HHN
BK.VAK.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNN/ BK.VAK.00.HHN)
Median: 0.988
L1 norm: 0.020
Difference in spectral phase
Phase (BK.VAK.00.HNN- BK.VAK.00.HHN)
Median: -0.008
L1 norm: 0.024

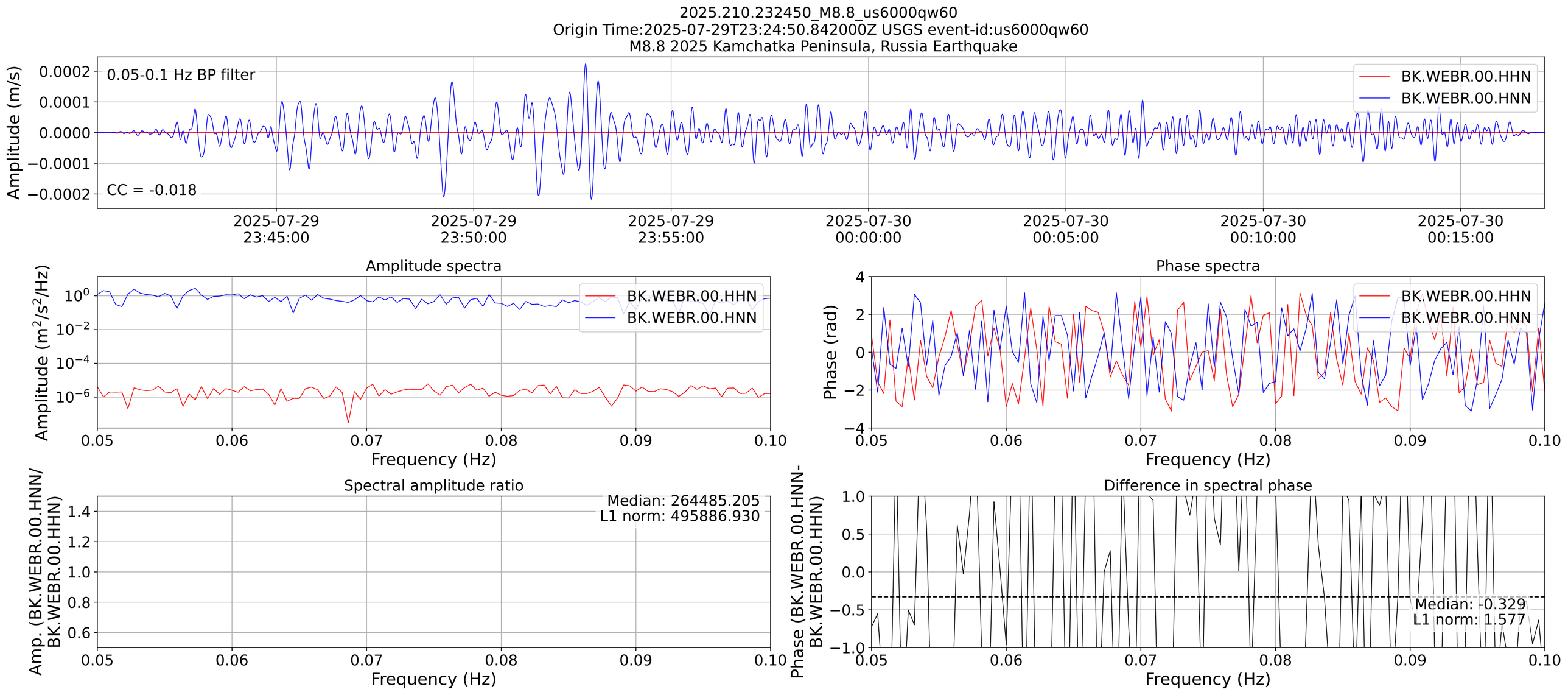

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.VAK.00.HHZ
BK.VAK.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNZ/ BK.VAK.00.HHZ)
Median: 0.994
L1 norm: 0.032
Difference in spectral phase
Phase (BK.VAK.00.HNZ- BK.VAK.00.HHZ)
Median: -0.004
L1 norm: 0.030

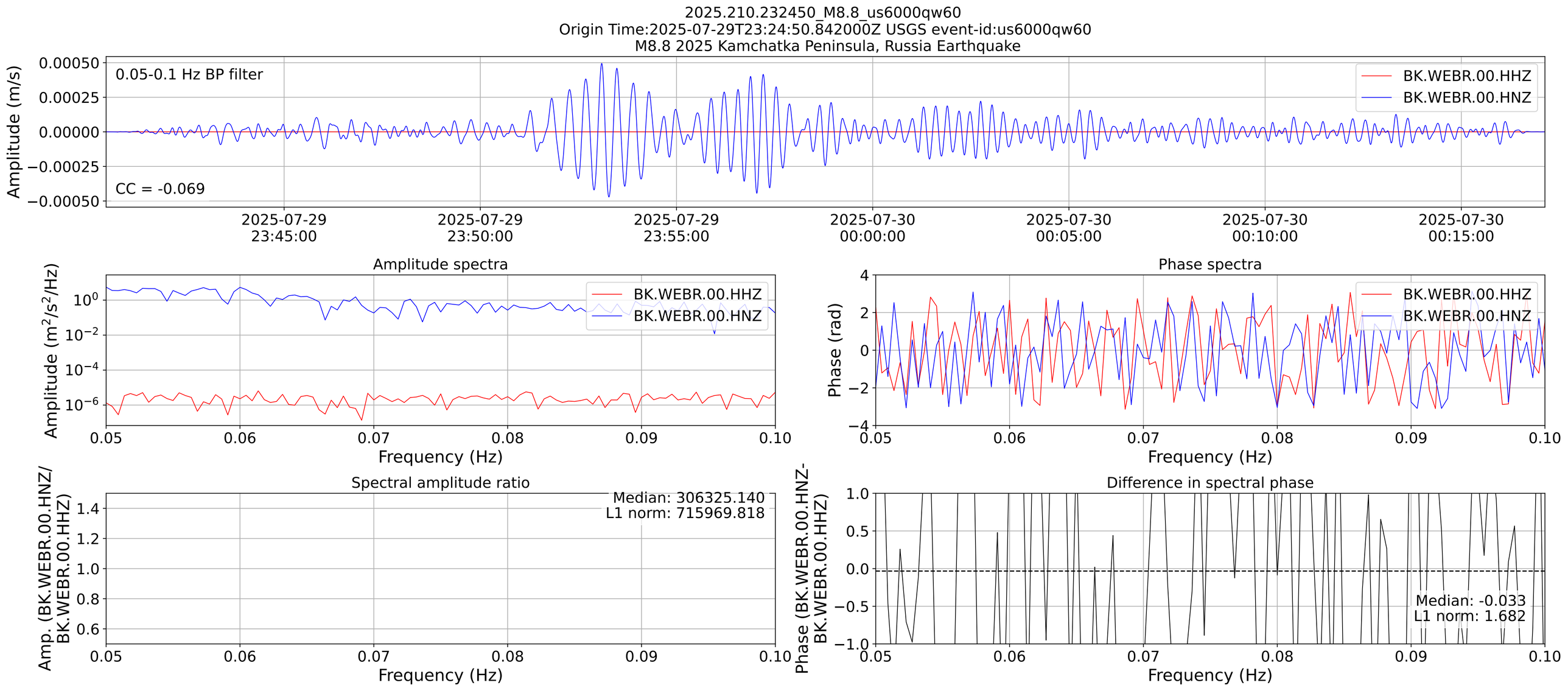

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
BK.WEAV.00.HHE
BK.WEAV.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNE/ BK.WEAV.00.HHE)
Median: 1.092
L1 norm: 0.091
Difference in spectral phase
Phase (BK.WEAV.00.HNE- BK.WEAV.00.HHE)
Median: -0.026
L1 norm: 0.099

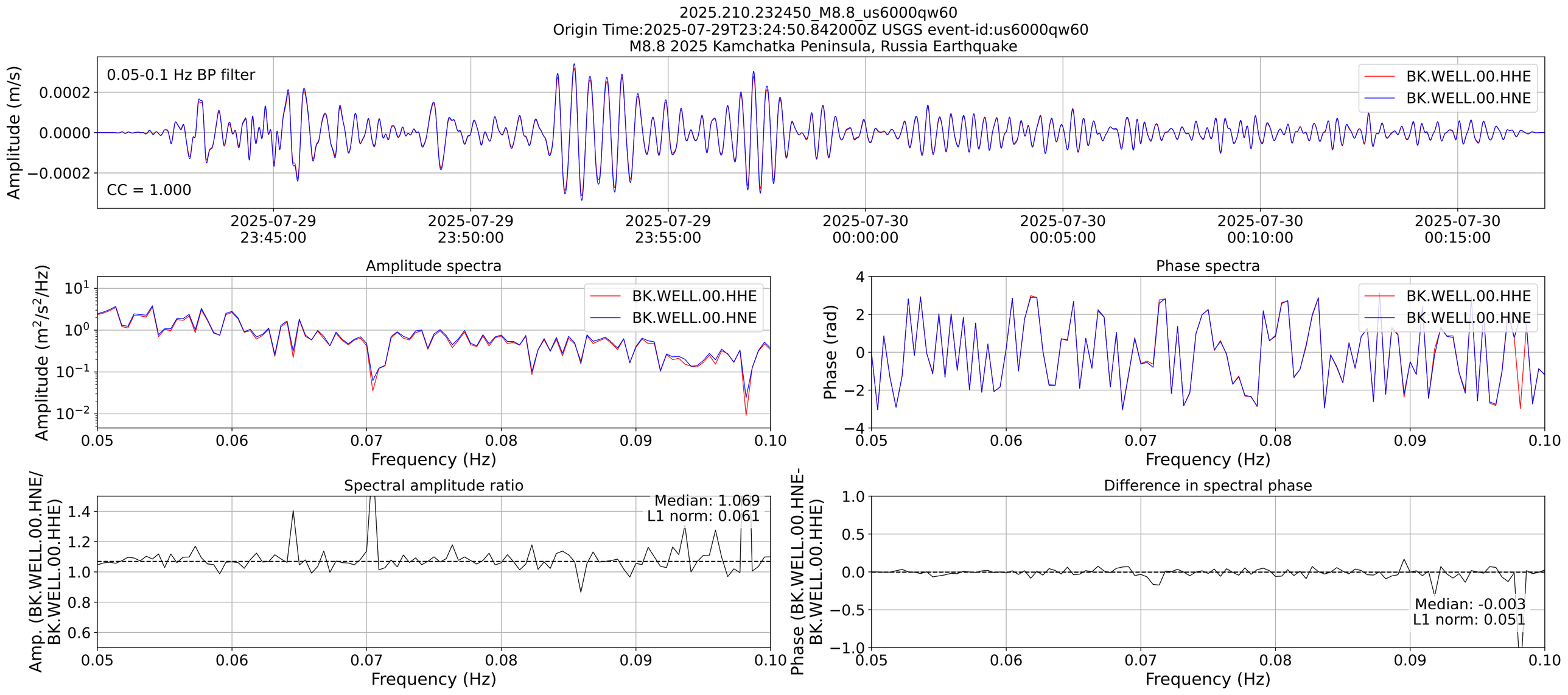

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.978
BK.WEAV.00.HHN
BK.WEAV.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNN/ BK.WEAV.00.HHN)
Median: 1.079
L1 norm: 0.118
Difference in spectral phase
Phase (BK.WEAV.00.HNN- BK.WEAV.00.HHN)
Median: -0.044
L1 norm: 0.118

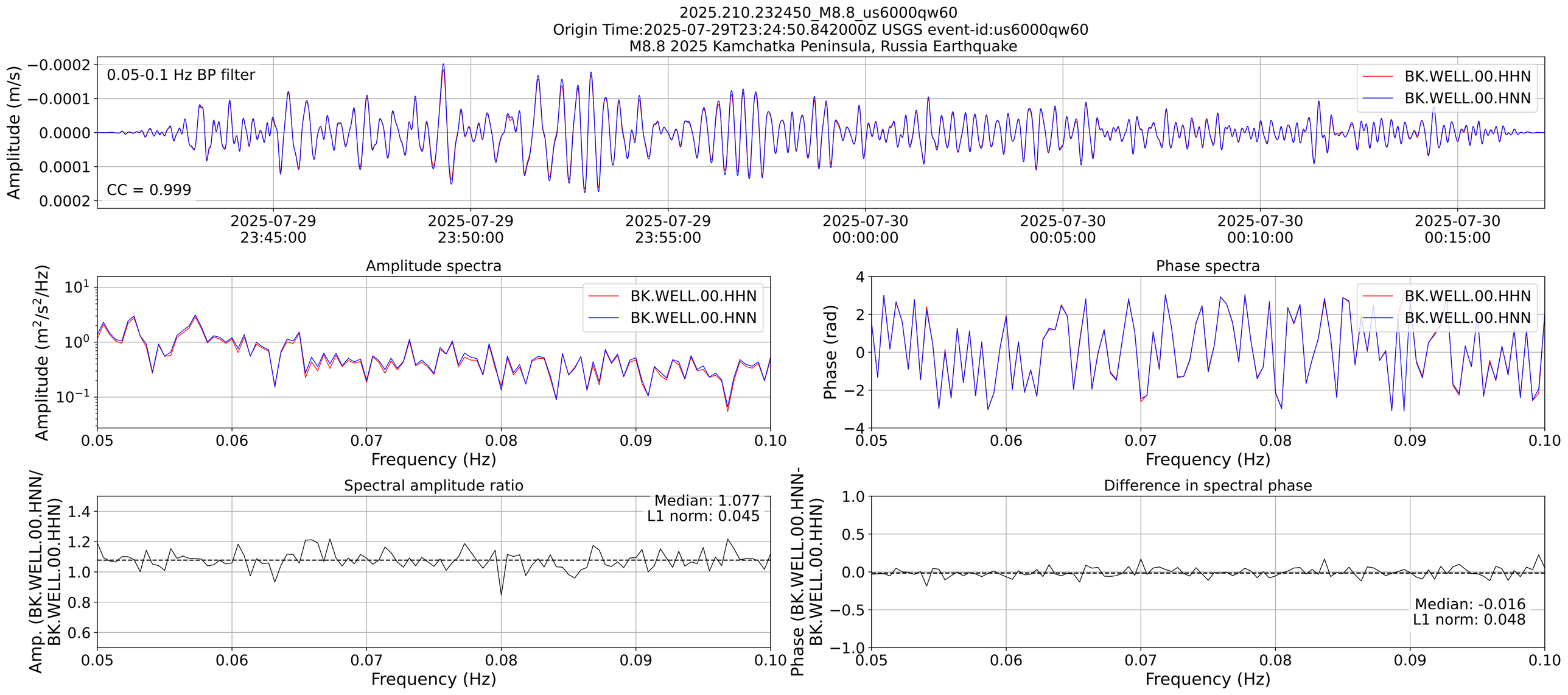

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WEAV.00.HHZ
BK.WEAV.00.HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNZ/ BK.WEAV.00.HHZ)
Median: 1.075
L1 norm: 0.057
Difference in spectral phase
Phase (BK.WEAV.00.HNZ- BK.WEAV.00.HHZ)
Median: -0.003
L1 norm: 0.045

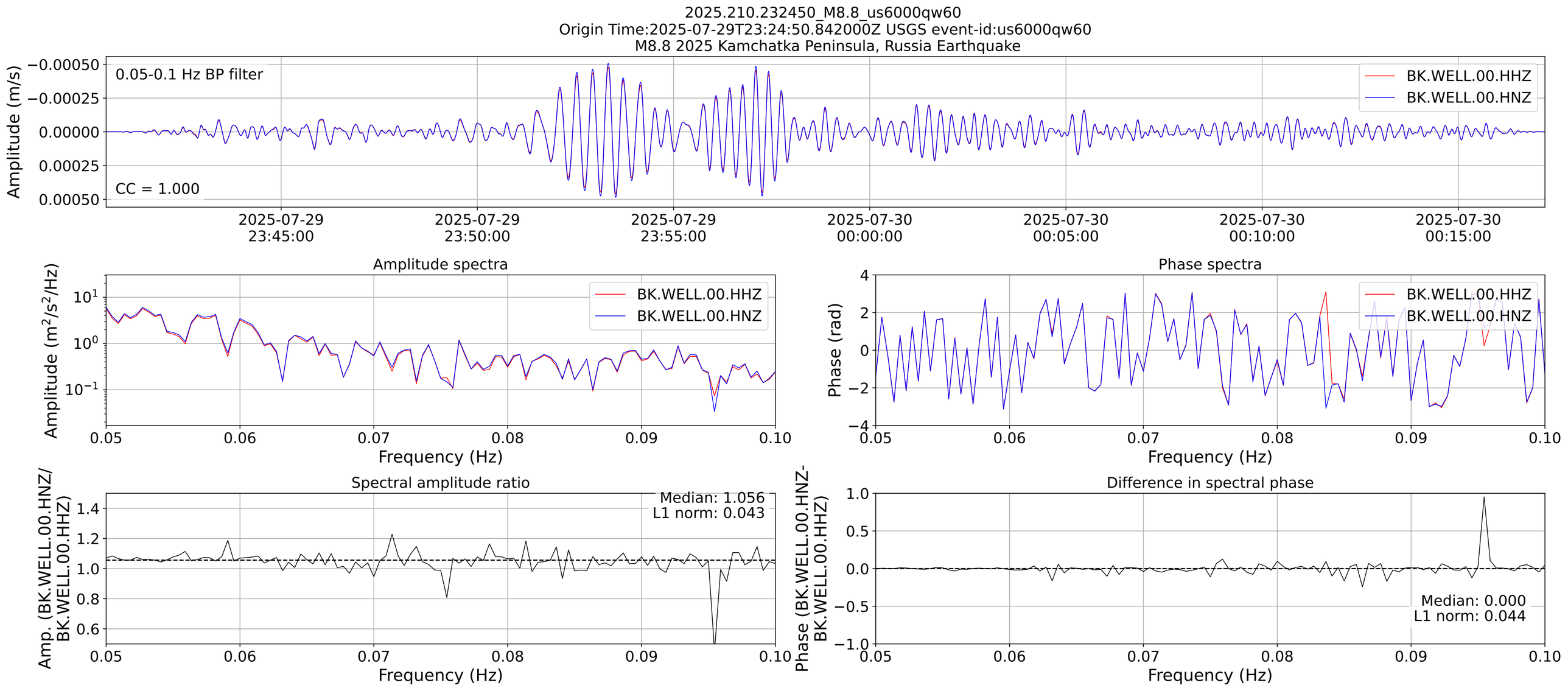

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.032
BK.WEBR.00.HHE
BK.WEBR.00.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNE/ BK.WEBR.00.HHE)
Median: 64542.314
L1 norm: 83889.480
Difference in spectral phase
Phase (BK.WEBR.00.HNE- BK.WEBR.00.HHE)
Median: -0.297
L1 norm: 1.482

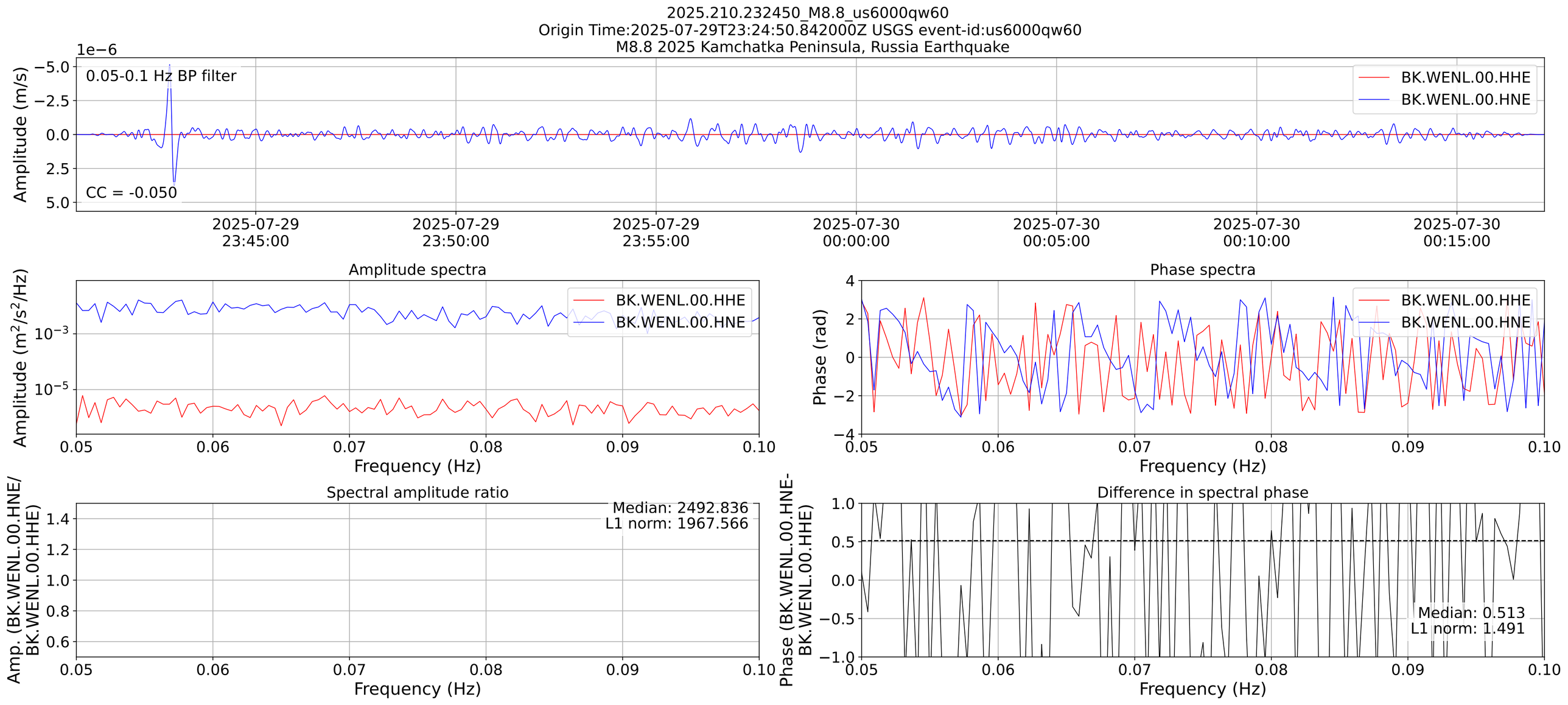

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.018
BK.WEBR.00.HHN
BK.WEBR.00.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNN/ BK.WEBR.00.HHN)
Median: 264485.205
L1 norm: 495886.930
Difference in spectral phase
Phase (BK.WEBR.00.HNN- BK.WEBR.00.HHN)
Median: -0.329
L1 norm: 1.577

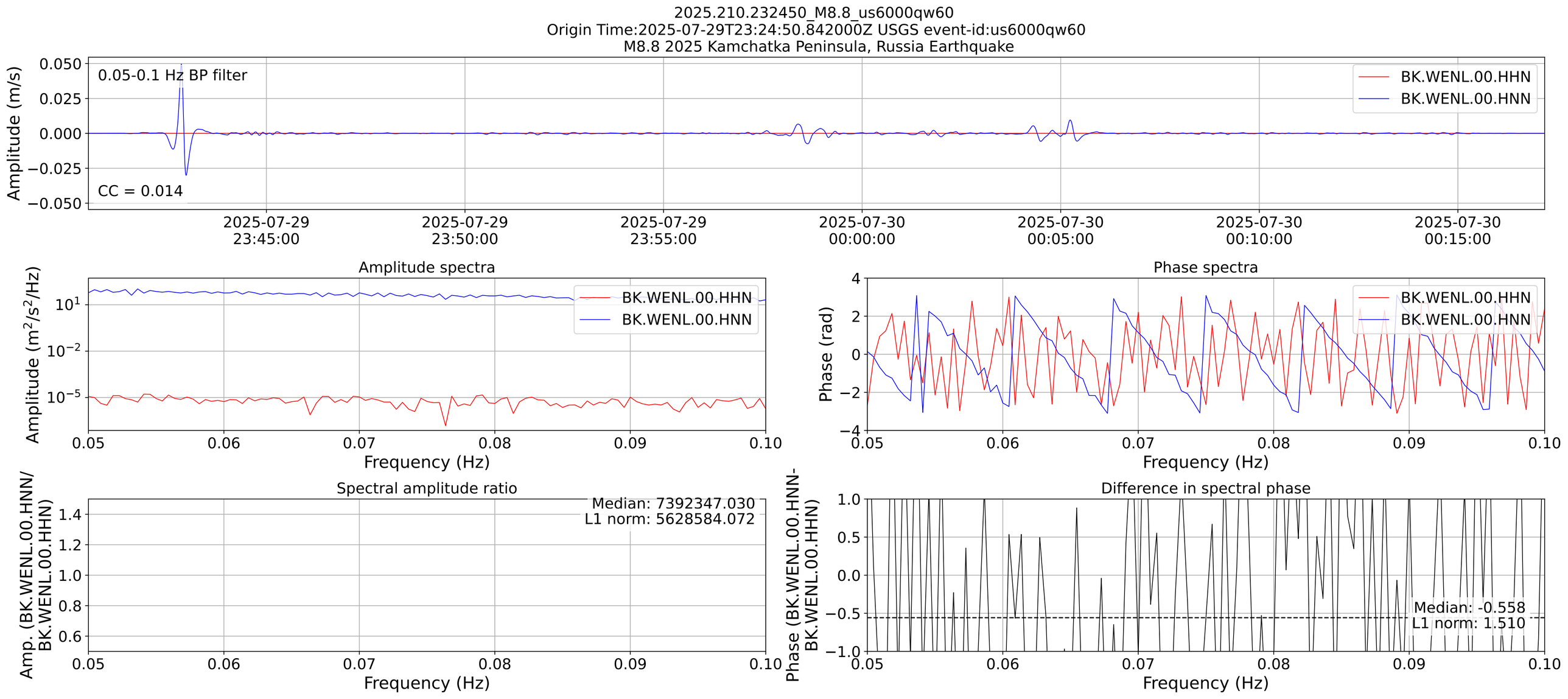

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.069
BK.WEBR.00.HHZ
BK.WEBR.00.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNZ/ BK.WEBR.00.HHZ)
Median: 306325.140
L1 norm: 715969.818
Frequency (Hz)
Difference in spectral phase
Phase (BK.WEBR.00.HNZ- BK.WEBR.00.HHZ)
Median: -0.033
L1 norm: 1.682
Frequency (Hz)

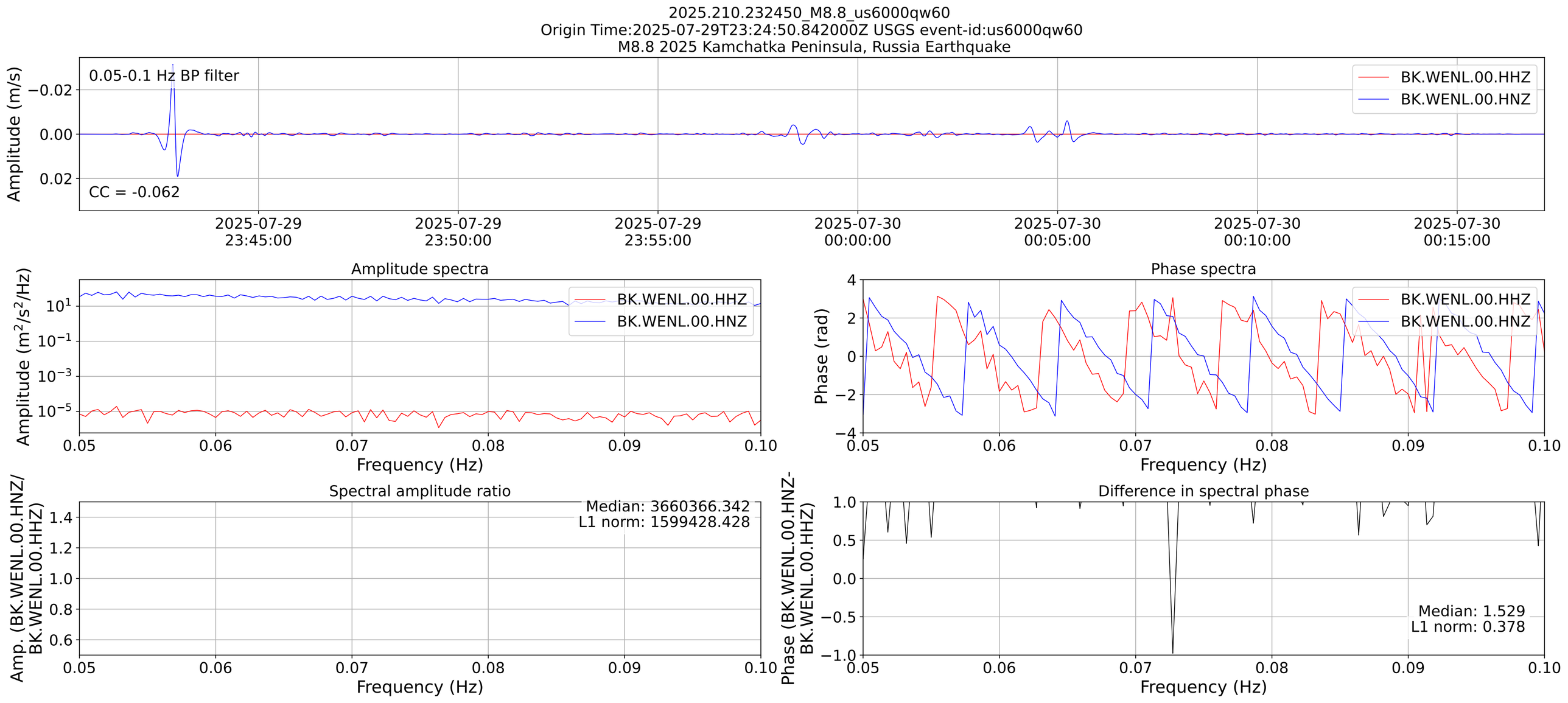

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WELL.00.HHE
BK.WELL.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNE/ BK.WELL.00.HHE)
Median: 1.069
L1 norm: 0.061
Difference in spectral phase
Phase (BK.WELL.00.HNE- BK.WELL.00.HHE)
Median: -0.003
L1 norm: 0.051

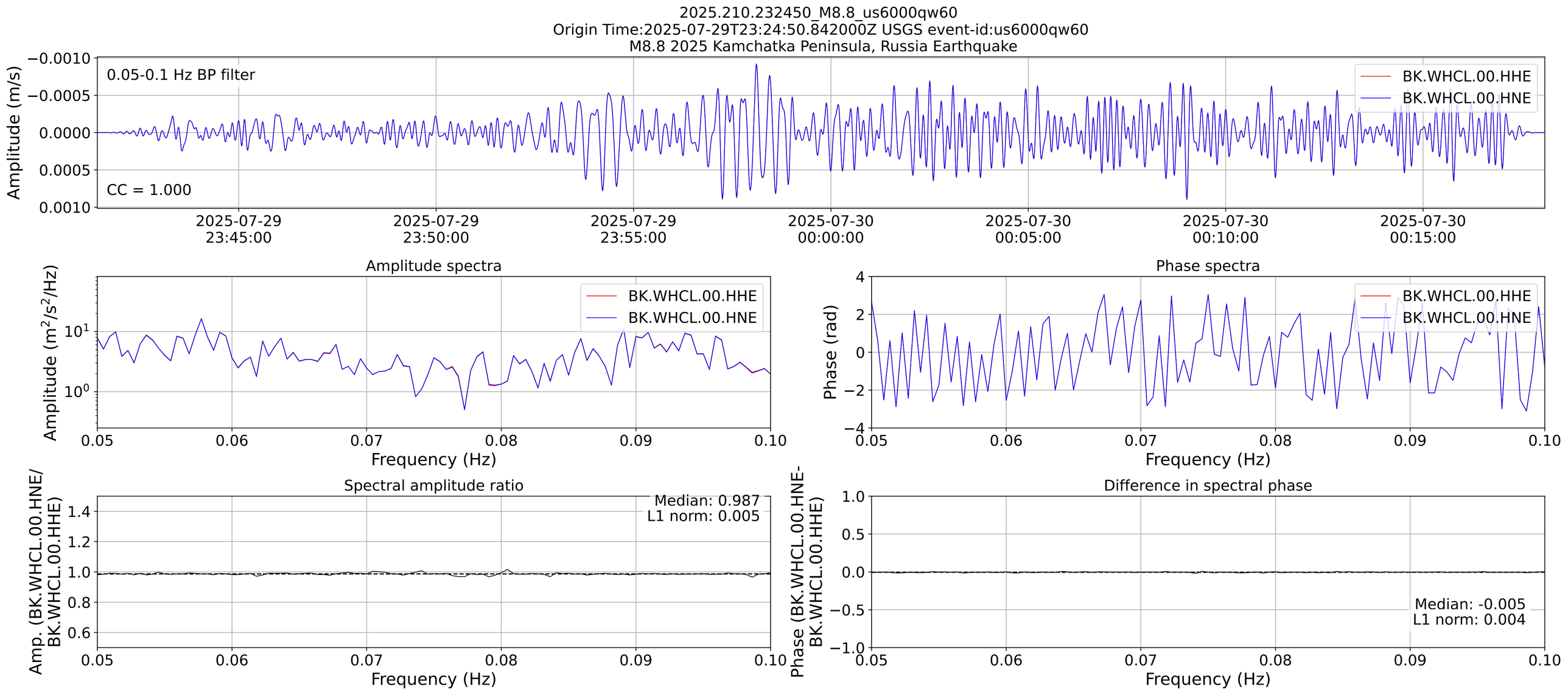

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WELL.00.HHN
BK.WELL.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNN/ BK.WELL.00.HHN)
Median: 1.077
L1 norm: 0.045
Difference in spectral phase
Phase (BK.WELL.00.HNN- BK.WELL.00.HHN)
Median: -0.016
L1 norm: 0.048

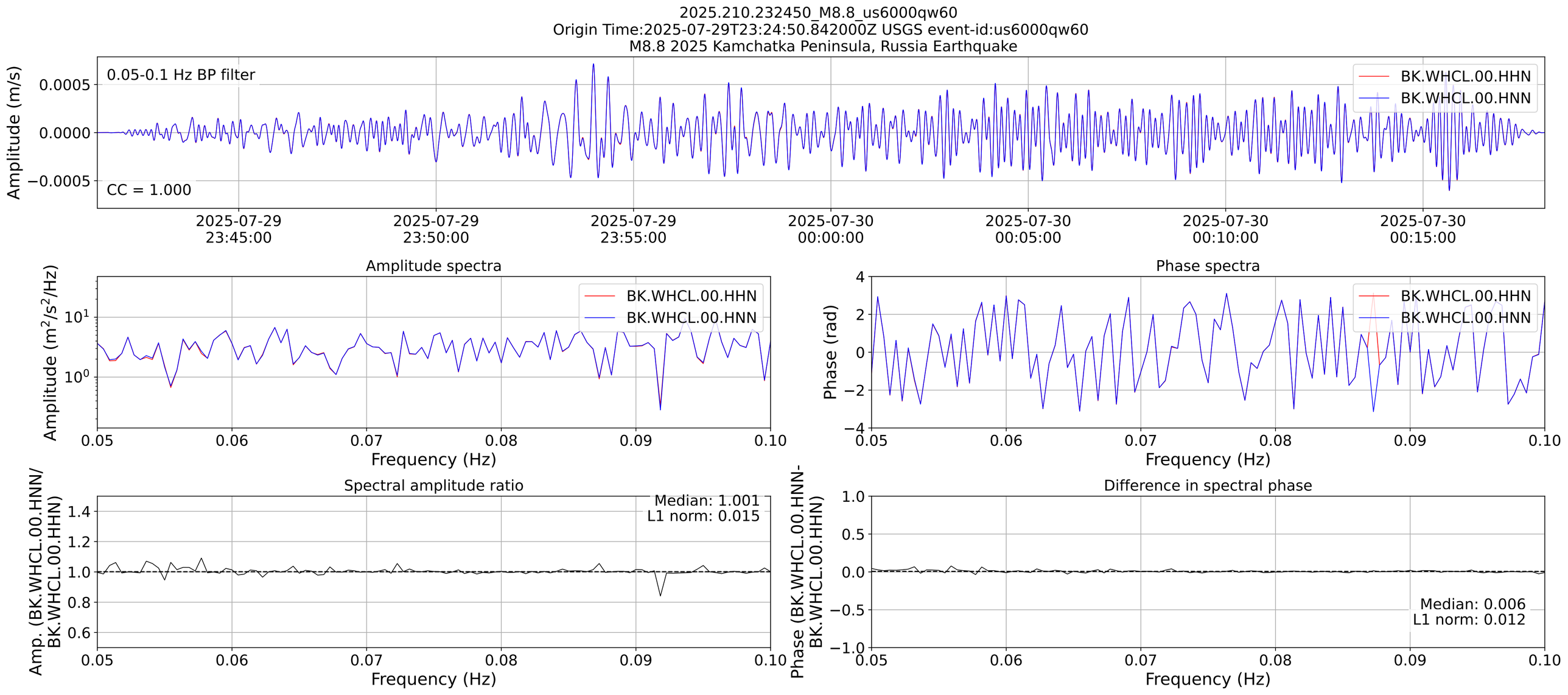

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WELL.00.HHZ
BK.WELL.00.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNZ/ BK.WELL.00.HHZ)
Median: 1.056
L1 norm: 0.043
Difference in spectral phase
Phase (BK.WELL.00.HNZ- BK.WELL.00.HHZ)
Median: 0.000
L1 norm: 0.044

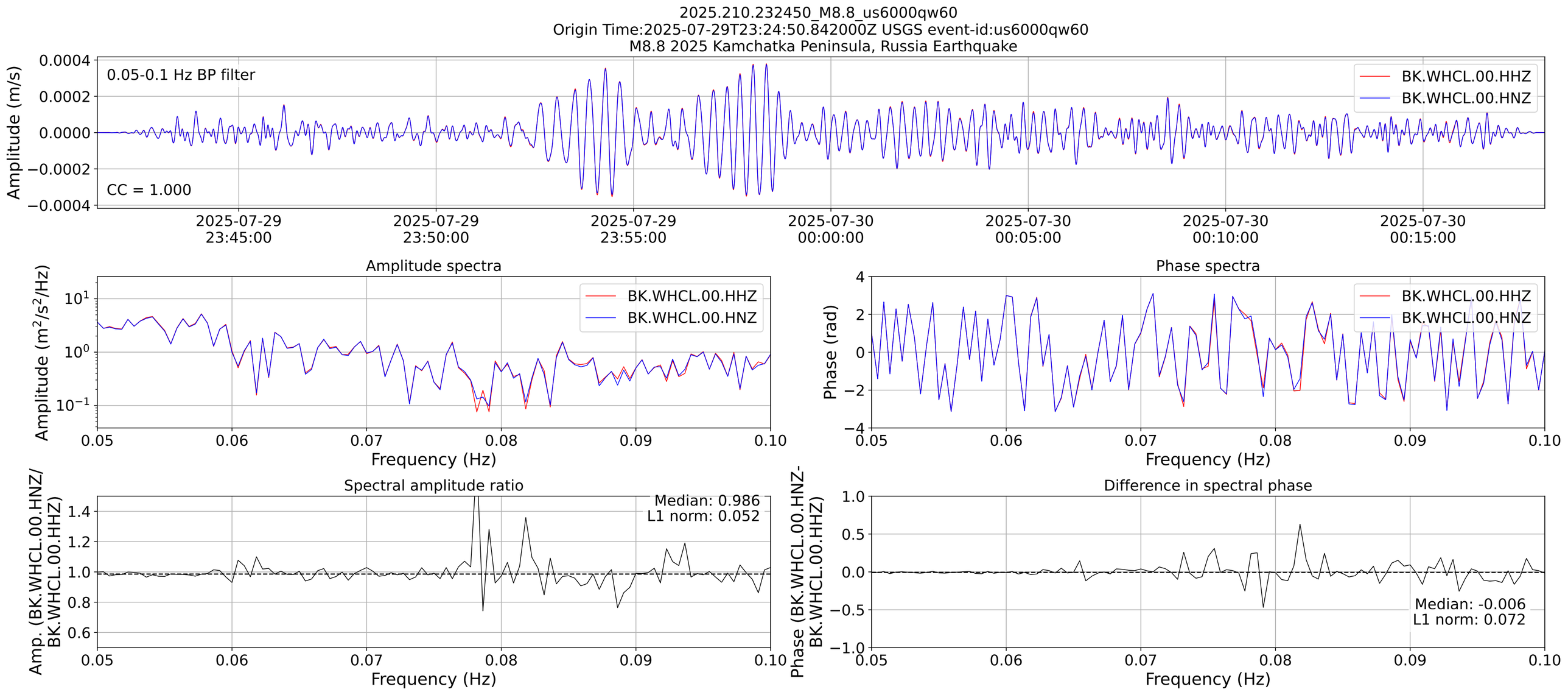

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
1e−6
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = -0.050
BK.WENL.00.HHE
BK.WENL.00.HNE
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WENL.00.HNE/ BK.WENL.00.HHE)
Median: 2492.836
L1 norm: 1967.566
Difference in spectral phase
Phase (BK.WENL.00.HNE-BK.WENL.00.HHE)
Median: 0.513
L1 norm: 1.491

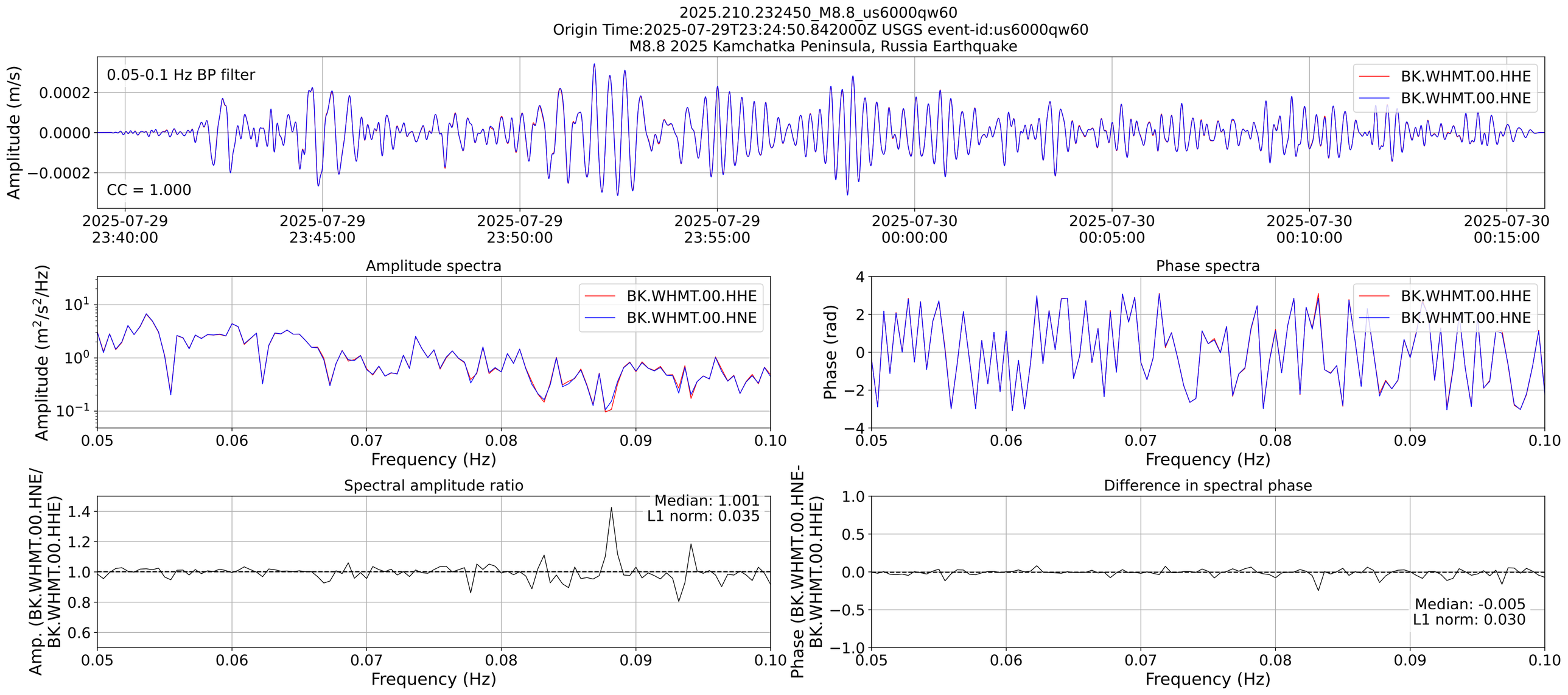

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.014
BK.WENL.00.HHN
BK.WENL.00.HNN
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 7392347.030
L1 norm: 5628584.072
Amp. (BK.WENL.00.HNN/ BK.WENL.00.HHN)
Difference in spectral phase
Phase (BK.WENL.00.HNN- BK.WENL.00.HHN)
Median: -0.558
L1 norm: 1.510

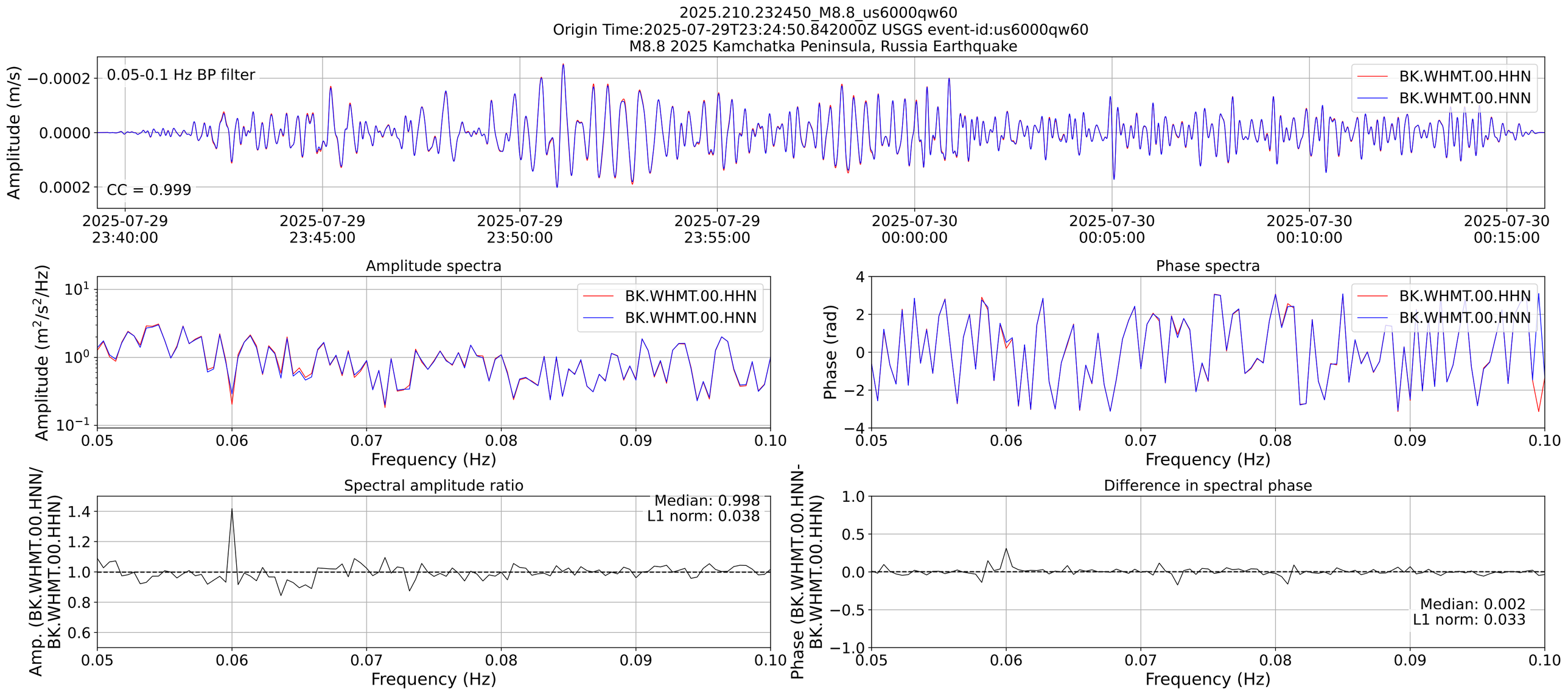

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.062
BK.WENL.00.HHZ
BK.WENL.00.HNZ
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 3660366.342
L1 norm: 1599428.428
Amp. (BK.WENL.00.HNZ/ BK.WENL.00.HHZ)
Difference in spectral phase
Phase (BK.WENL.00.HNZ- BK.WENL.00.HHZ)
Median: 1.529
L1 norm: 0.378

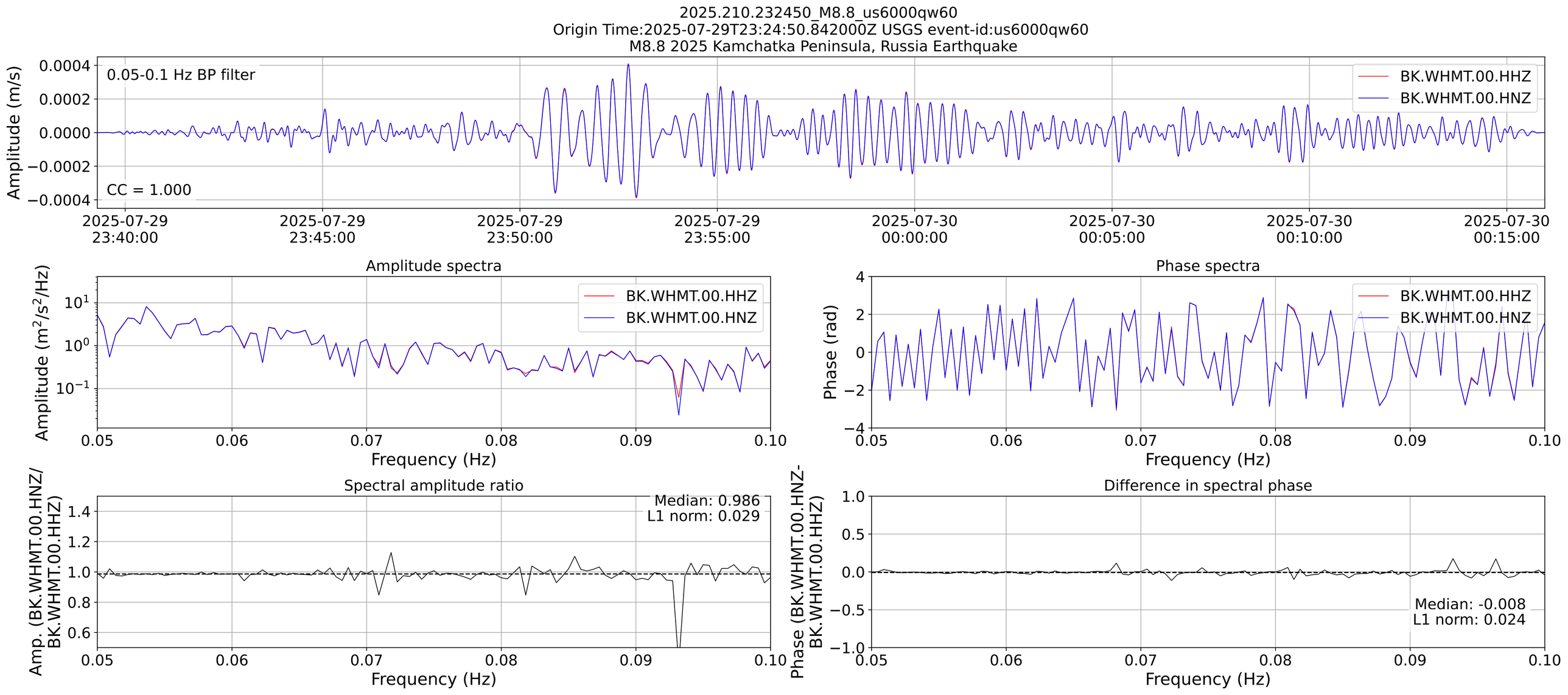

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WHCL.00.HHE
BK.WHCL.00.HNE
Amplitude (m/s)
−0.0010
−0.0005
0.0000
0.0005
0.0010
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNE/ BK.WHCL.00.HHE)
Median: 0.987
L1 norm: 0.005
Difference in spectral phase
Phase (BK.WHCL.00.HNE- BK.WHCL.00.HHE)
Median: -0.005
L1 norm: 0.004

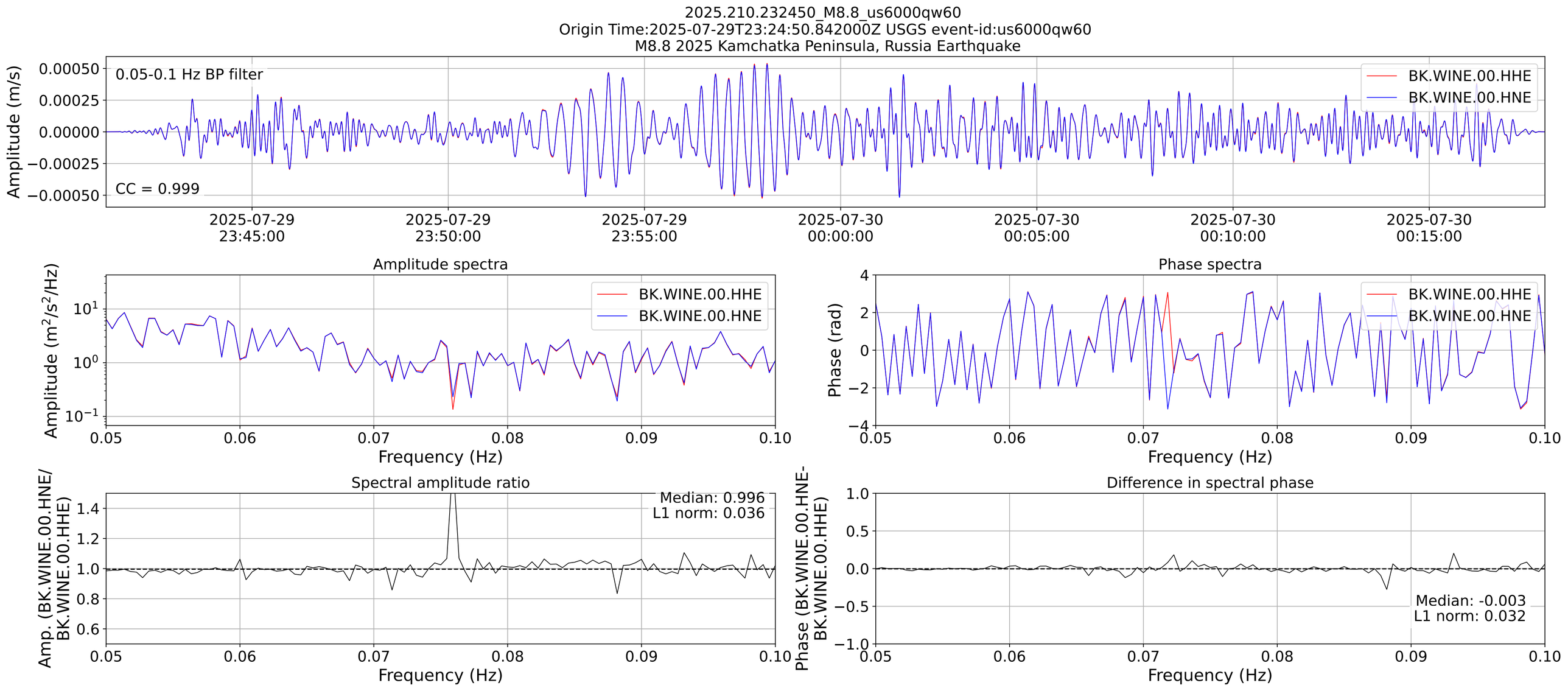

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WHCL.00.HHN
BK.WHCL.00.HNN
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNN/ BK.WHCL.00.HHN)
Median: 1.001
L1 norm: 0.015
Difference in spectral phase
Phase (BK.WHCL.00.HNN-BK.WHCL.00.HHN)
Median: 0.006
L1 norm: 0.012

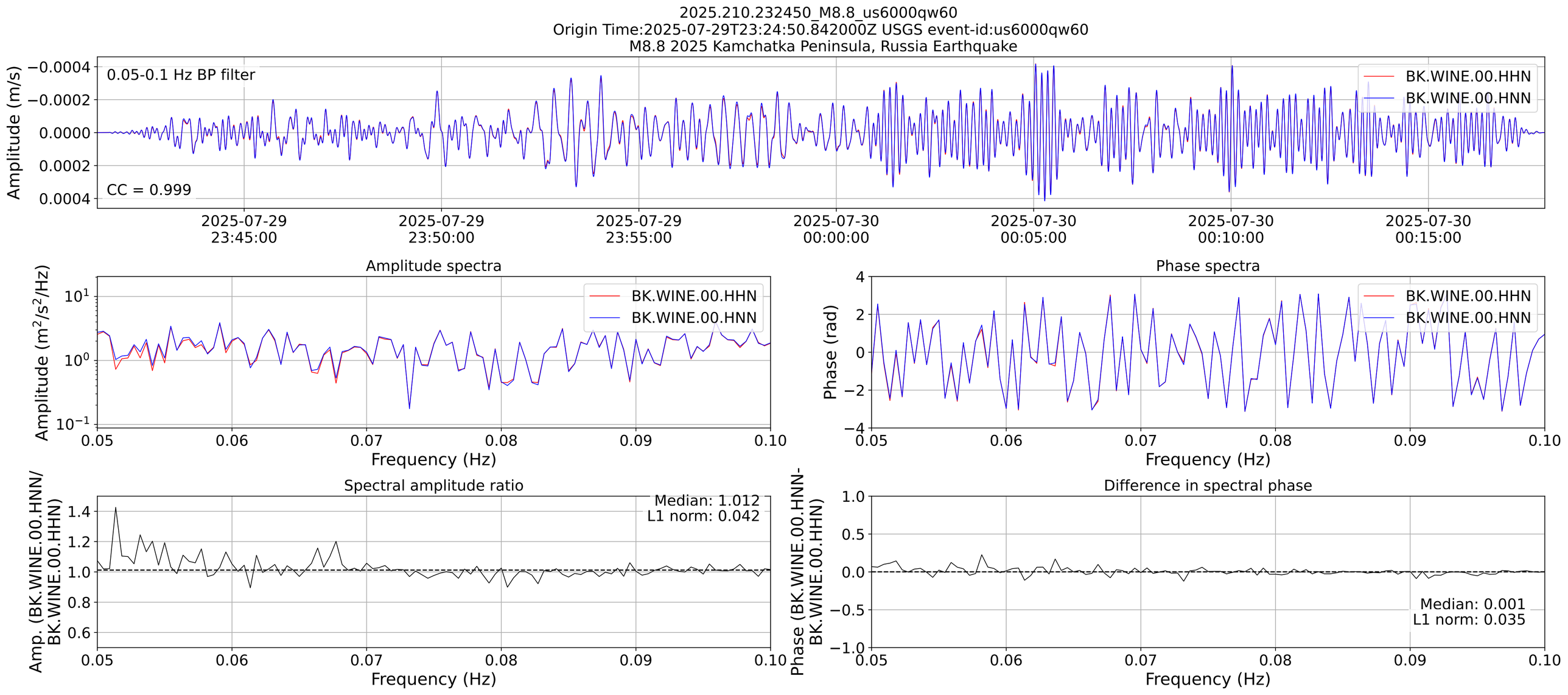

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WHCL.00.HHZ
BK.WHCL.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s⁴/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNZ/ BK.WHCL.00.HHZ)
Median: 0.986
L1 norm: 0.052
Difference in spectral phase
Phase (BK.WHCL.00.HNZ- BK.WHCL.00.HHZ)
Median: -0.006
L1 norm: 0.072

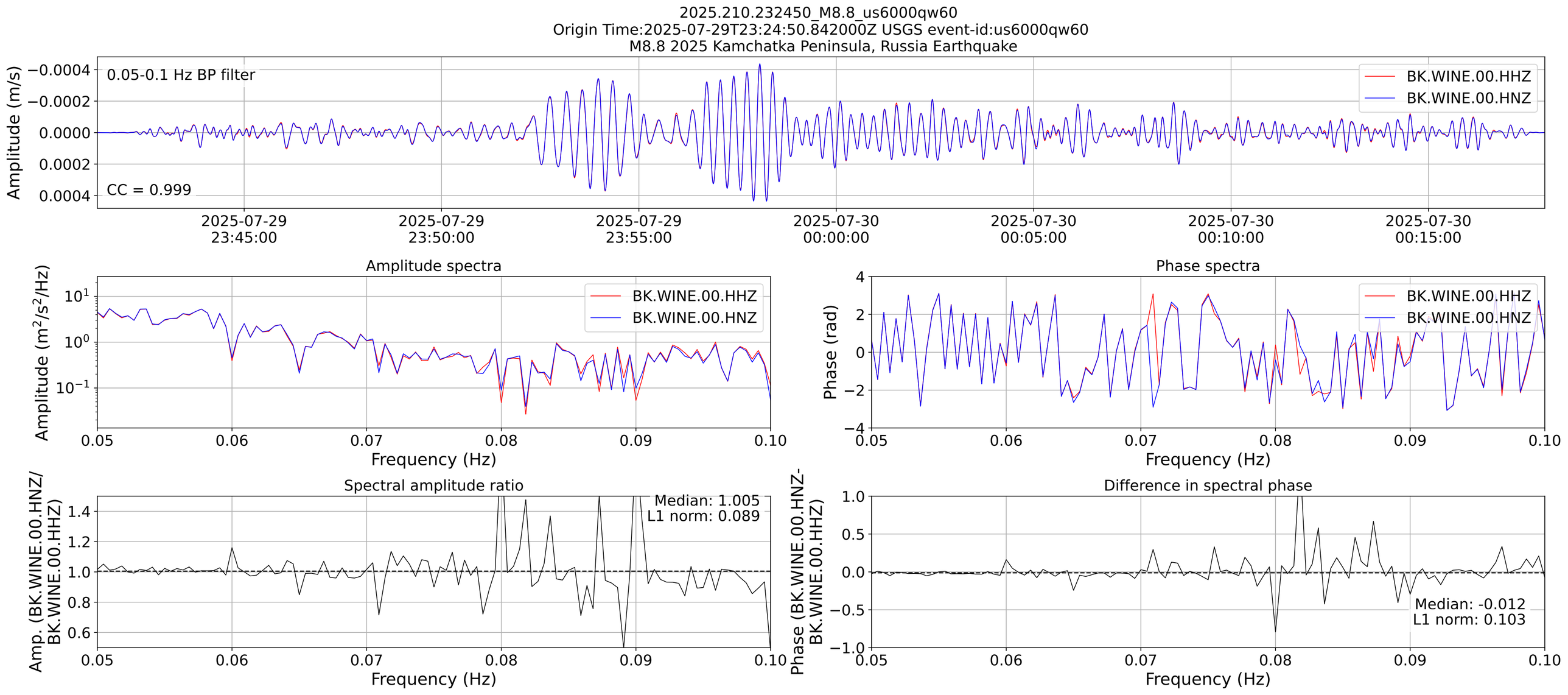

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WHMT.00.HHE
BK.WHMT.00.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHMT.00.HNE/ BK.WHMT.00.HHE)
Median: 1.001
L1 norm: 0.035
Difference in spectral phase
Phase (BK.WHMT.00.HNE- BK.WHMT.00.HHE)
Median: -0.005
L1 norm: 0.030

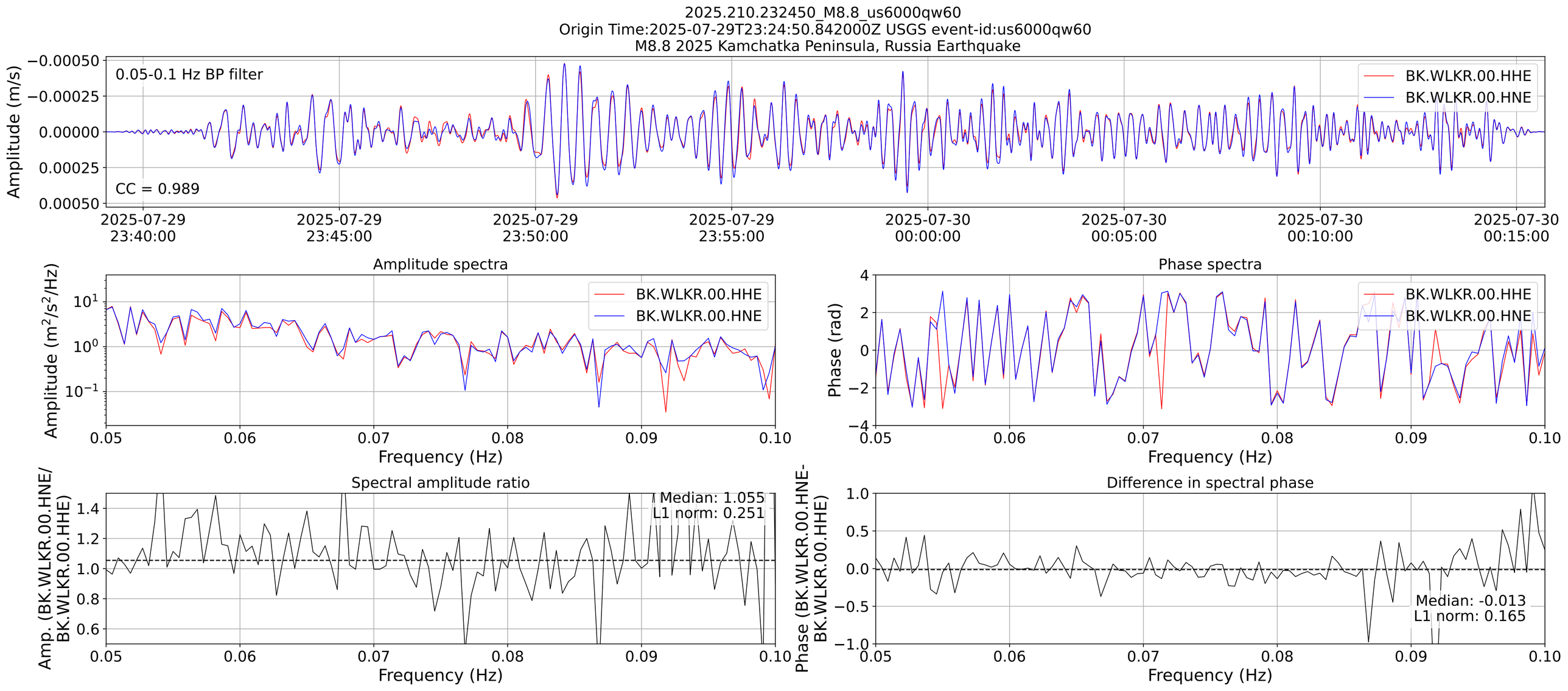

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WHMT.00.HHN
BK.WHMT.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHMT.00.HNN/ BK.WHMT.00.HHN)
Median: 0.998
L1 norm: 0.038
Difference in spectral phase
Phase (BK.WHMT.00.HNN- BK.WHMT.00.HHN)
Median: 0.002
L1 norm: 0.033

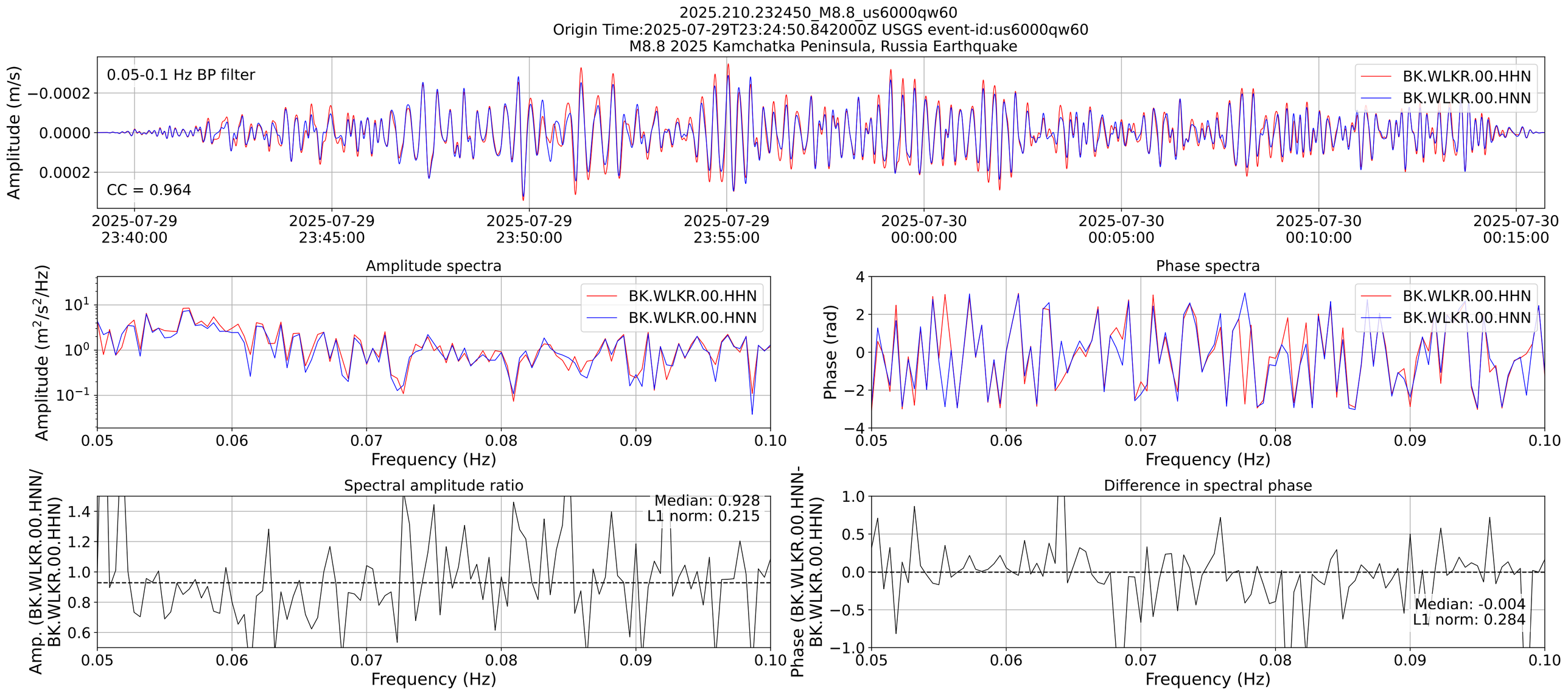

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WHMT.00.HHZ
BK.WHMT.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHMT.00.HNZ/ BK.WHMT.00.HHZ)
Median: 0.986
L1 norm: 0.029
Difference in spectral phase
Phase (BK.WHMT.00.HNZ- BK.WHMT.00.HHZ)
Median: -0.008
L1 norm: 0.024

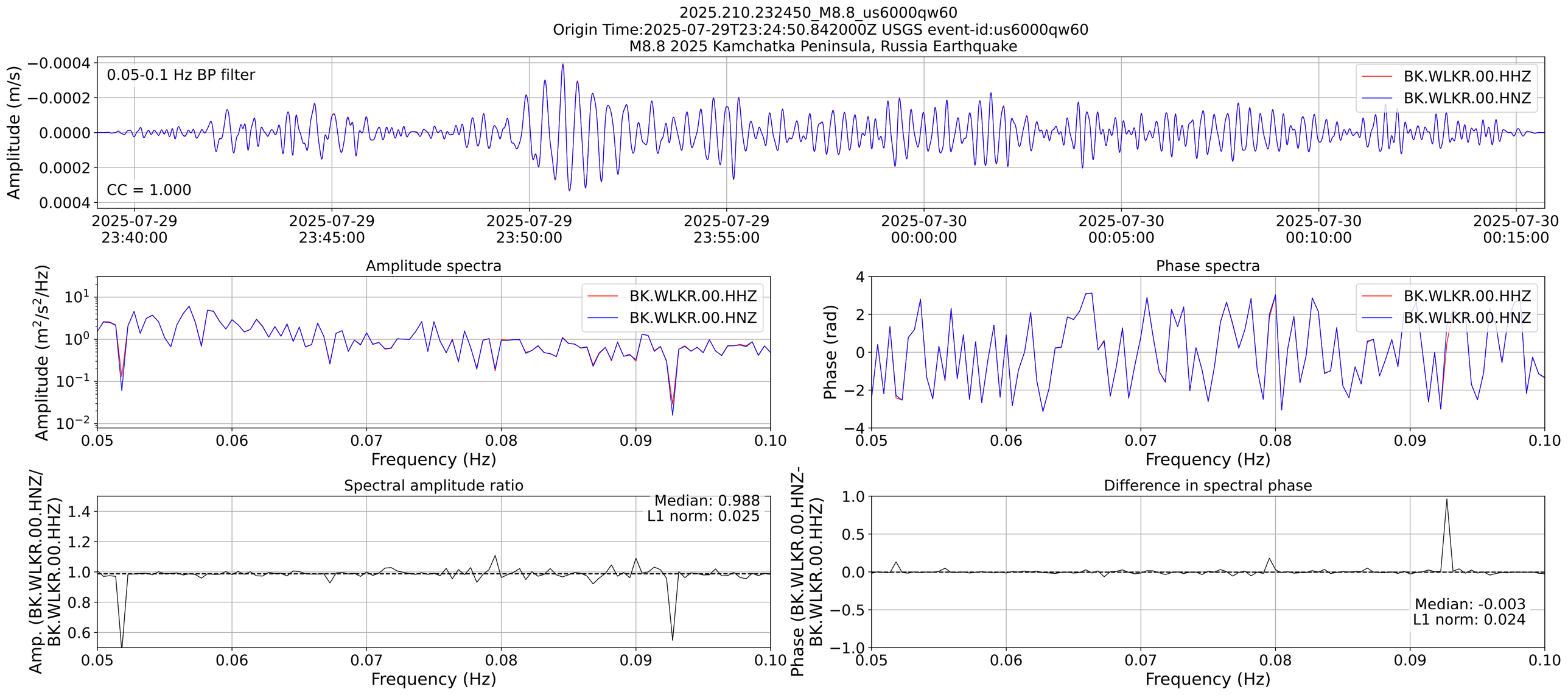

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WINE.00.HHE
BK.WINE.00.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WINE.00.HNE/ BK.WINE.00.HHE)
Median: 0.996
L1 norm: 0.036
Difference in spectral phase
Phase (BK.WINE.00.HNE- BK.WINE.00.HHE)
Median: -0.003
L1 norm: 0.032

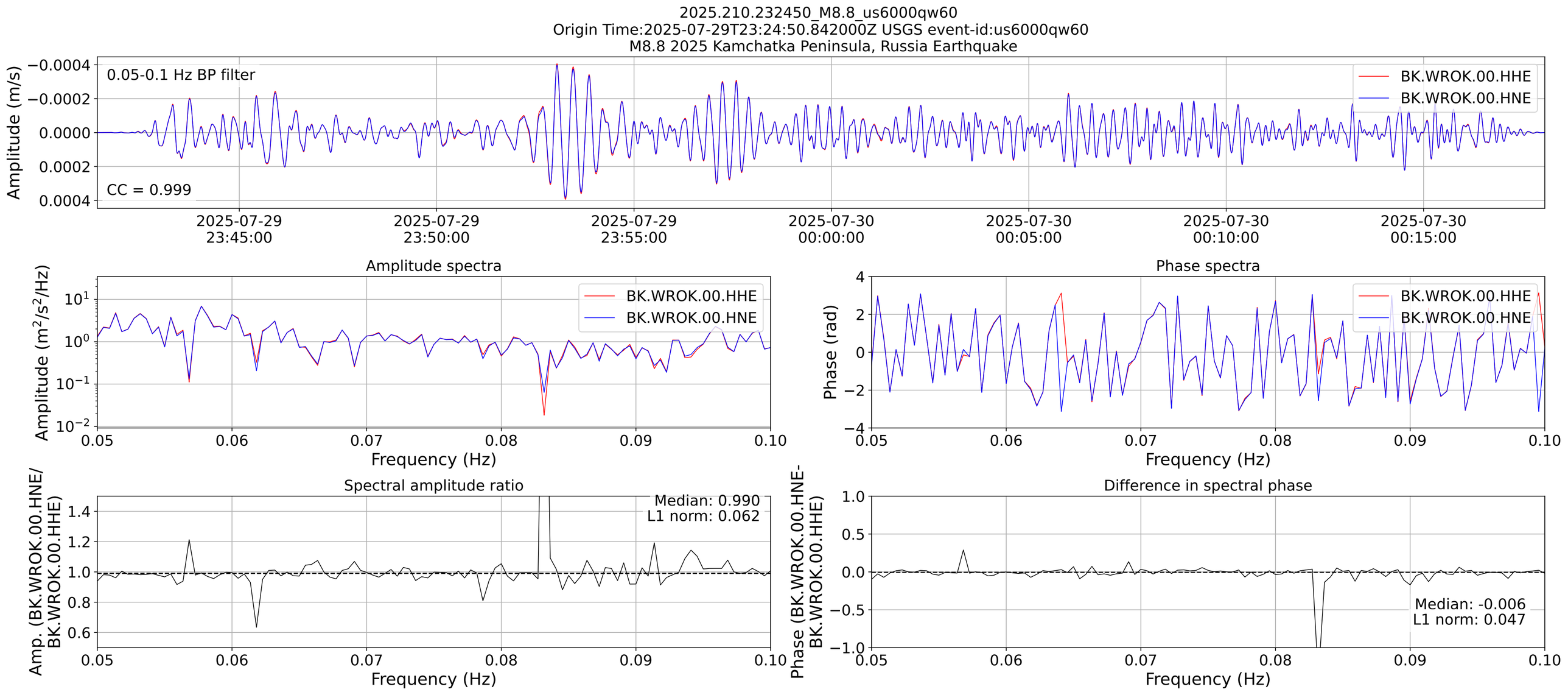

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WINE.00.HHN
BK.WINE.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WINE.00.HNN/ BK.WINE.00.HHN)
Median: 1.012
L1 norm: 0.042
Difference in spectral phase
Phase (BK.WINE.00.HNN- BK.WINE.00.HHN)
Median: 0.001
L1 norm: 0.035

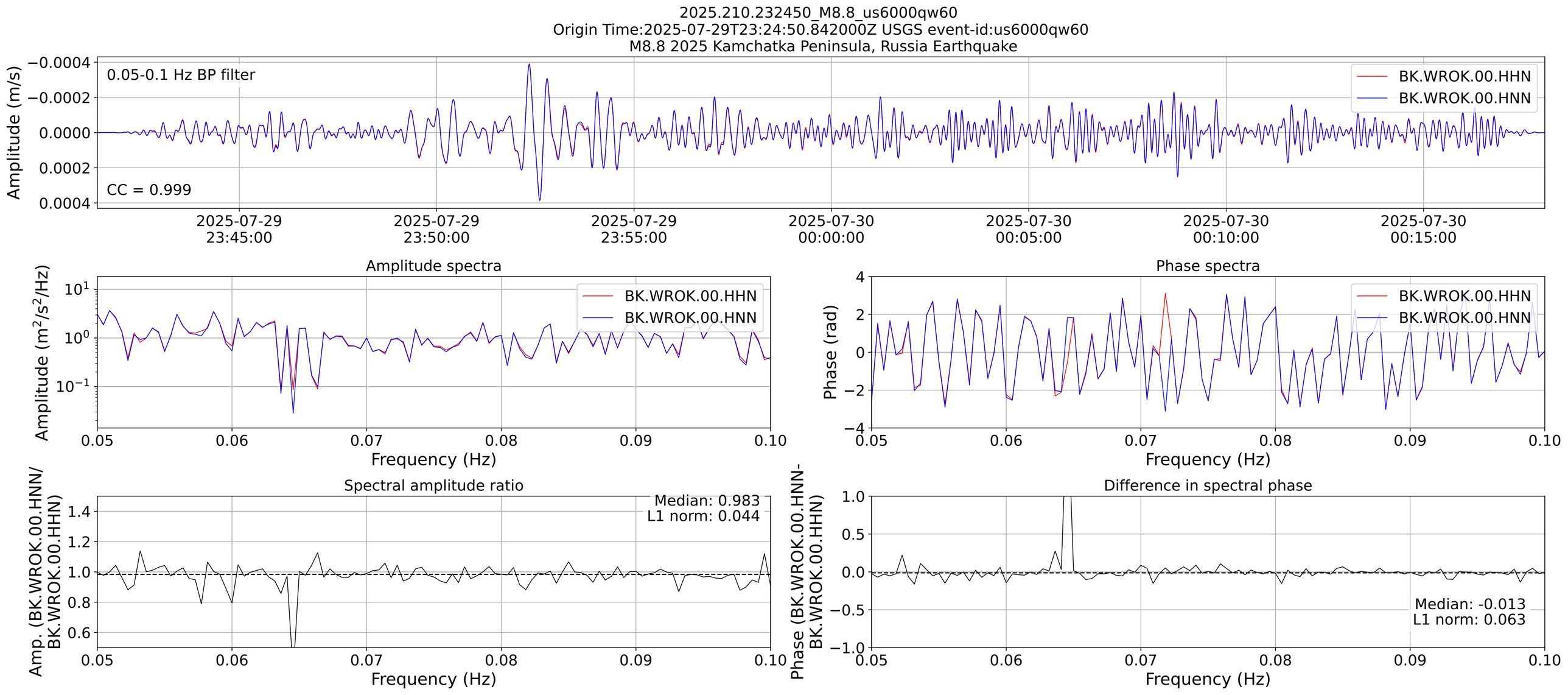

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WINE.00.HHZ
BK.WINE.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WINE.00.HNZ/ BK.WINE.00.HHZ)
Median: 1.005
L1 norm: 0.089
Difference in spectral phase
Phase (BK.WINE.00.HNZ- BK.WINE.00.HHZ)
Median: -0.012
L1 norm: 0.103

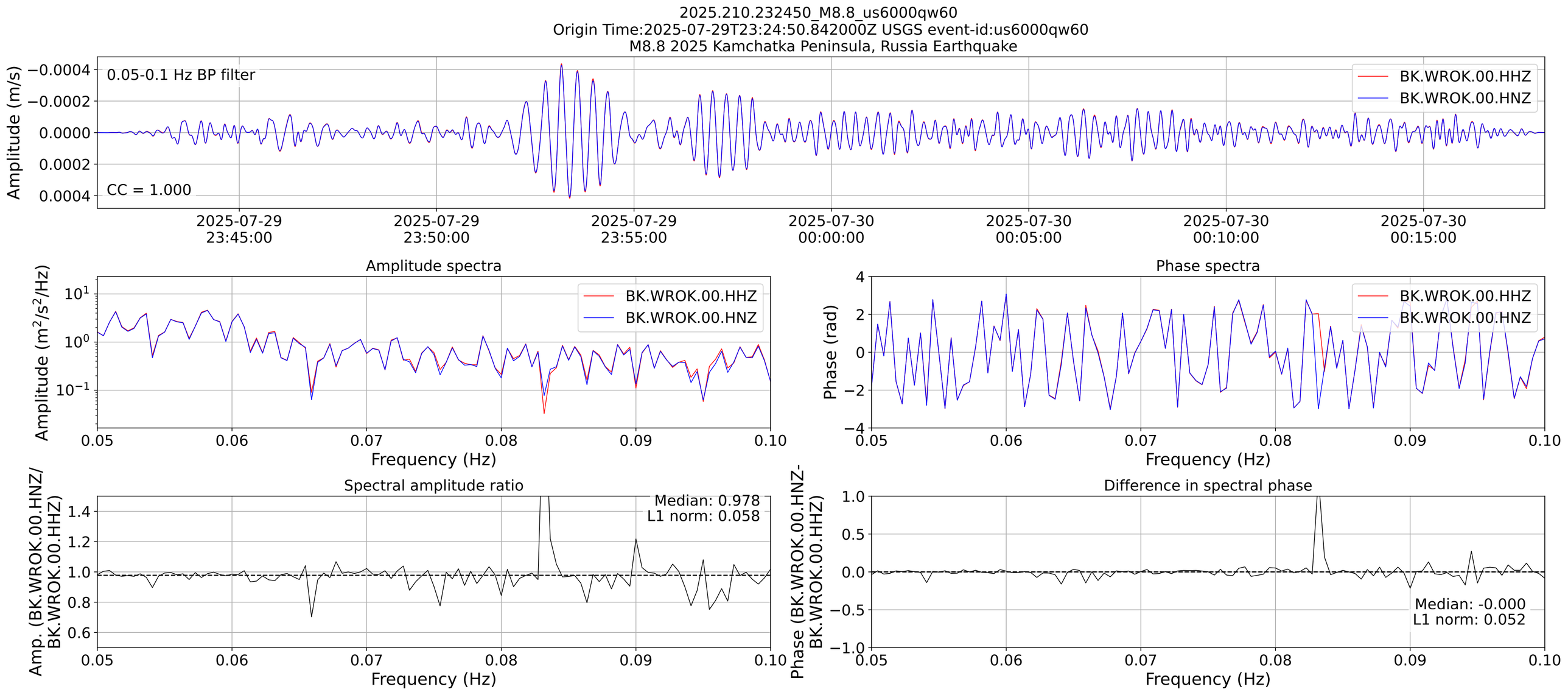

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.989
BK.WLKR.00.HHE
BK.WLKR.00.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNE/ BK.WLKR.00.HHE)
Median: 1.055
L1 norm: 0.251
Difference in spectral phase
Phase (BK.WLKR.00.HNE- BK.WLKR.00.HHE)
Median: -0.013
L1 norm: 0.165

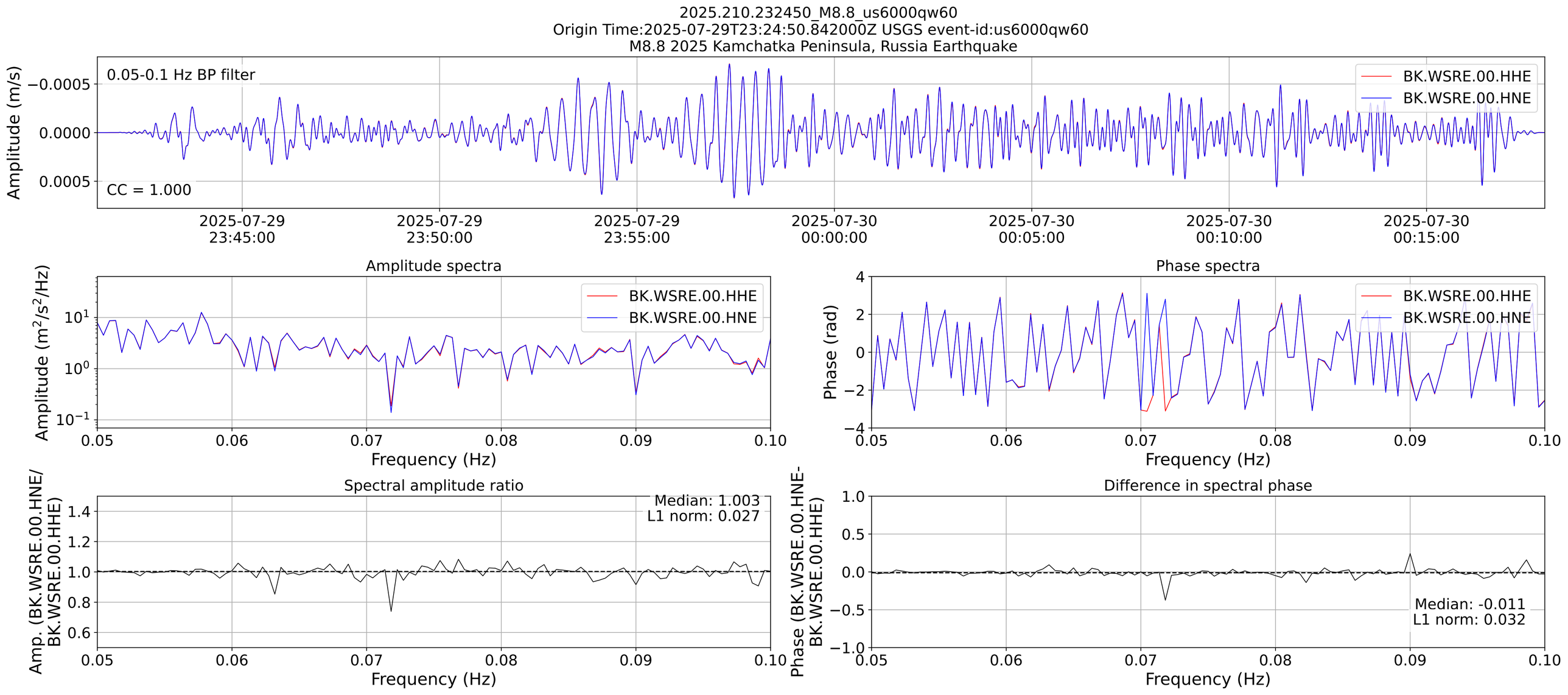

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.964
BK.WLKR.00.HHN
BK.WLKR.00.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNN/ BK.WLKR.00.HHN)
Median: 0.928
L1 norm: 0.215
Difference in spectral phase
Phase (BK.WLKR.00.HNN- BK.WLKR.00.HHN)
Median: -0.004
L1 norm: 0.284

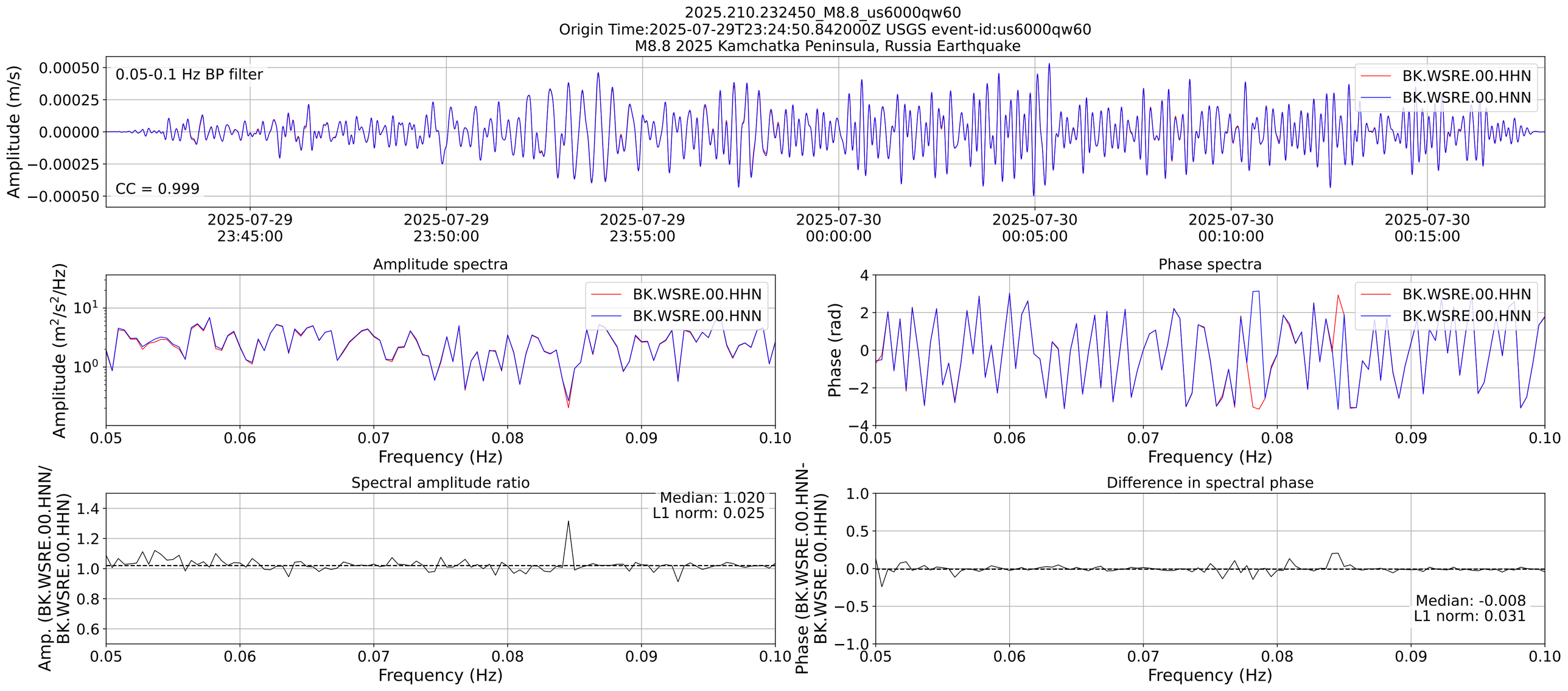

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WLKR.00.HHZ
BK.WLKR.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNZ/ BK.WLKR.00.HHZ)
Median: 0.988
L1 norm: 0.025
Difference in spectral phase
Phase (BK.WLKR.00.HNZ- BK.WLKR.00.HHZ)
Median: -0.003
L1 norm: 0.024

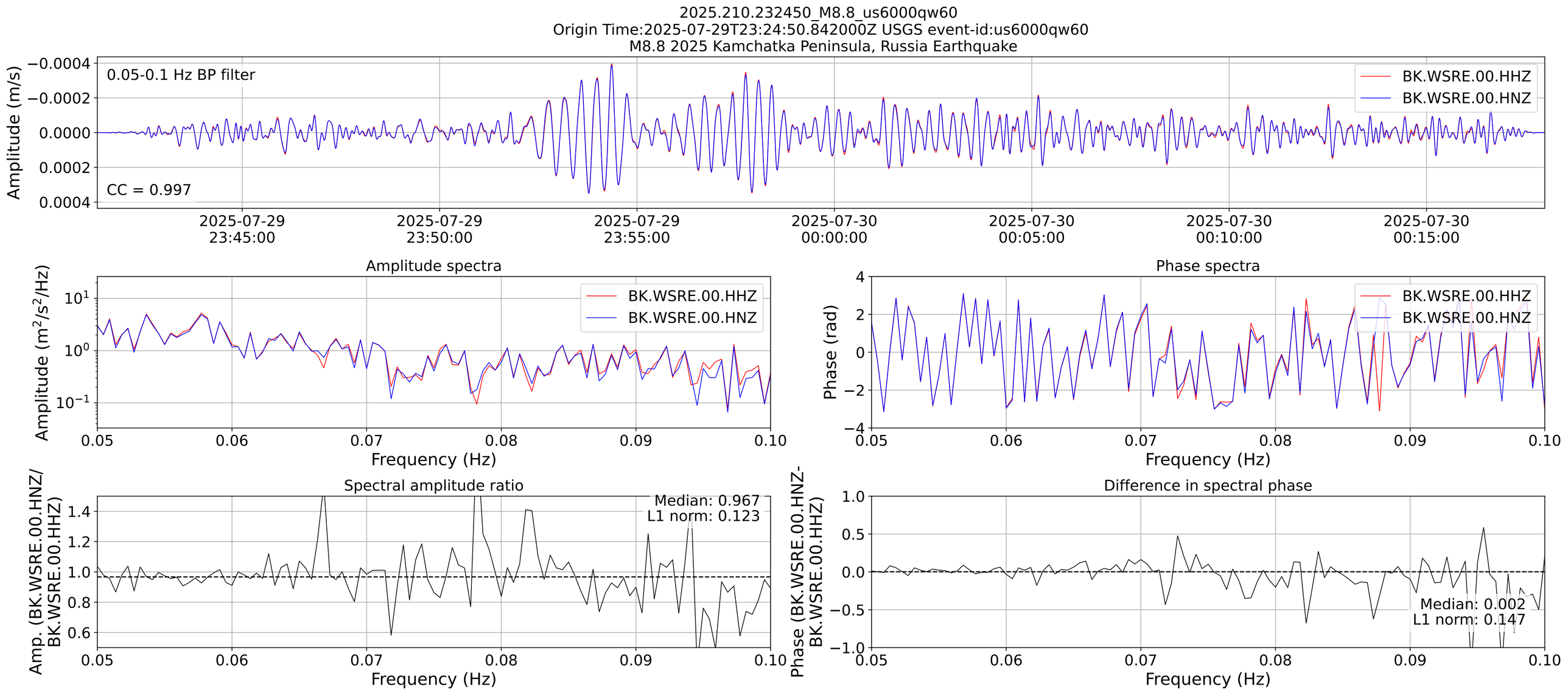

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WROK.00.HHE
BK.WROK.00.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNE/ BK.WROK.00.HHE)
Median: 0.990
L1 norm: 0.062
Difference in spectral phase
Phase (BK.WROK.00.HNE- BK.WROK.00.HHE)
Median: -0.006
L1 norm: 0.047

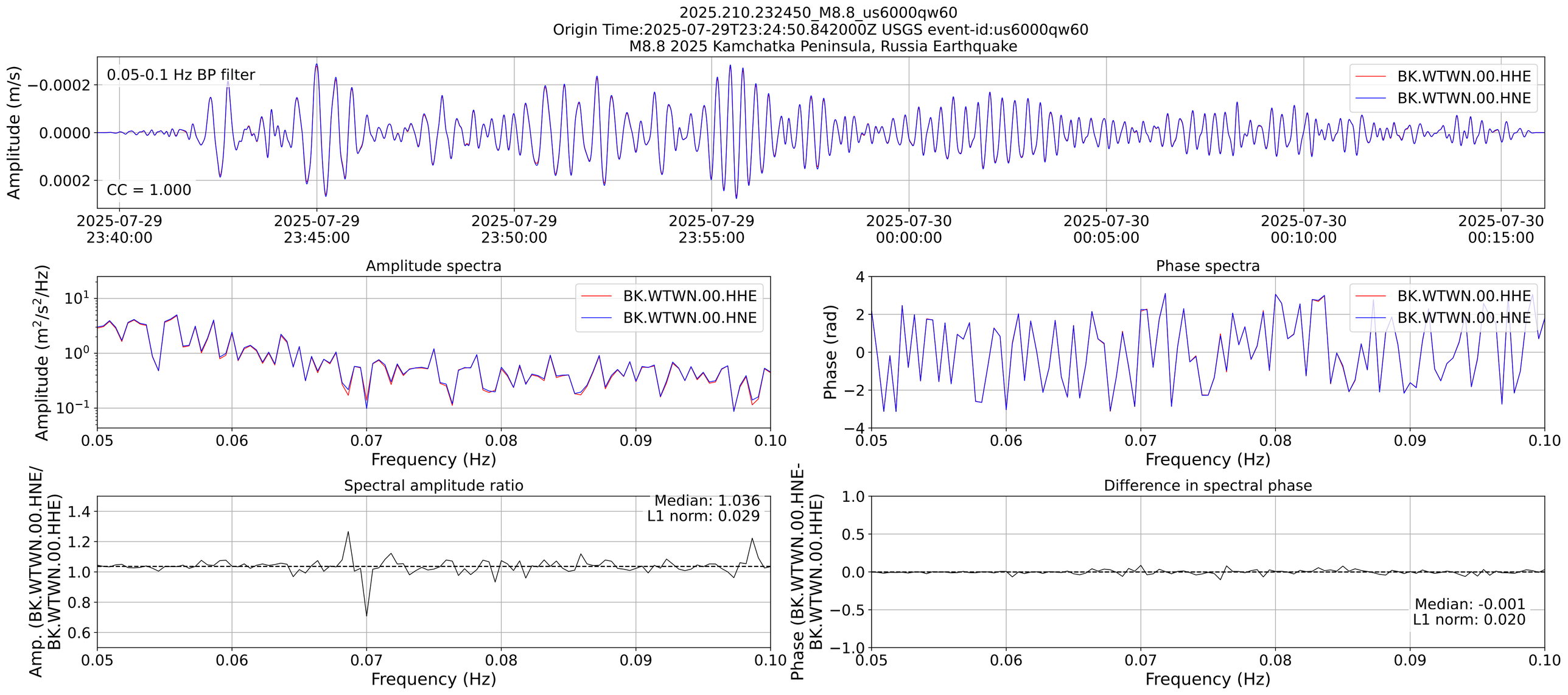

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WROK.00.HHN
BK.WROK.00.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNN/ BK.WROK.00.HHN)
Median: 0.983
L1 norm: 0.044
Difference in spectral phase
Phase (BK.WROK.00.HNN- BK.WROK.00.HHN)
Median: -0.013
L1 norm: 0.063

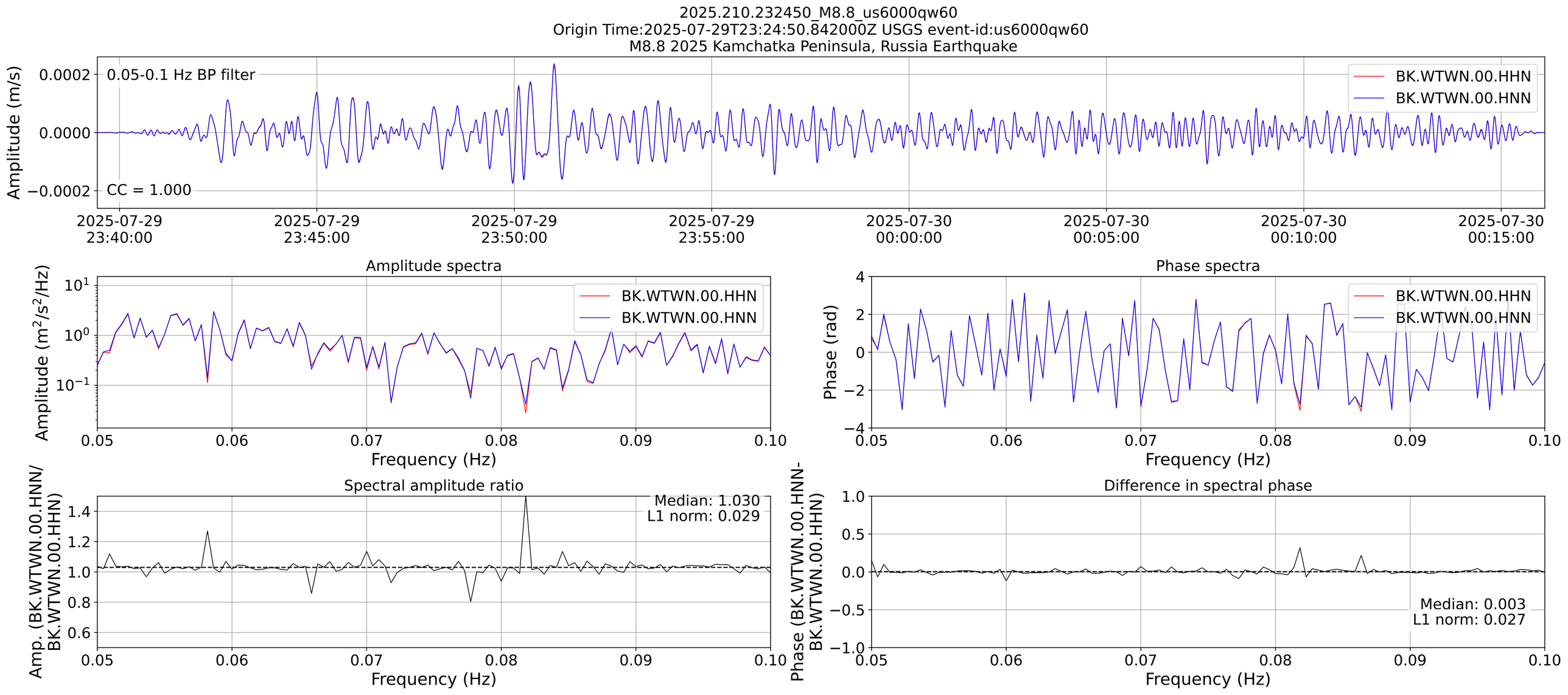

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WROK.00.HHZ
BK.WROK.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNZ/ BK.WROK.00.HHZ)
Median: 0.978
L1 norm: 0.058
Difference in spectral phase
Phase (BK.WROK.00.HNZ- BK.WROK.00.HHZ)
Median: -0.000
L1 norm: 0.052

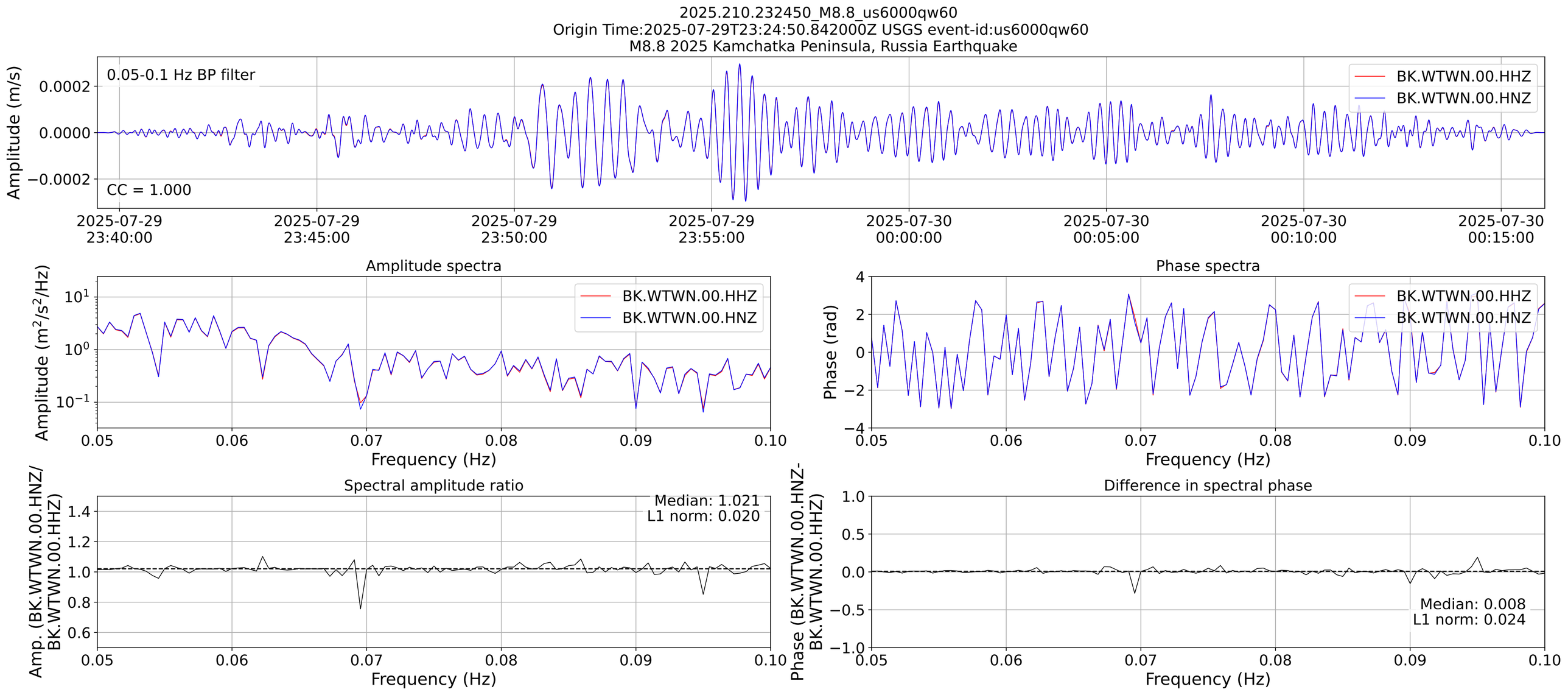

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WSRE.00.HHE
BK.WSRE.00.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNE/ BK.WSRE.00.HHE)
Median: 1.003
L1 norm: 0.027
Difference in spectral phase
Phase (BK.WSRE.00.HNE- BK.WSRE.00.HHE)
Median: -0.011
L1 norm: 0.032

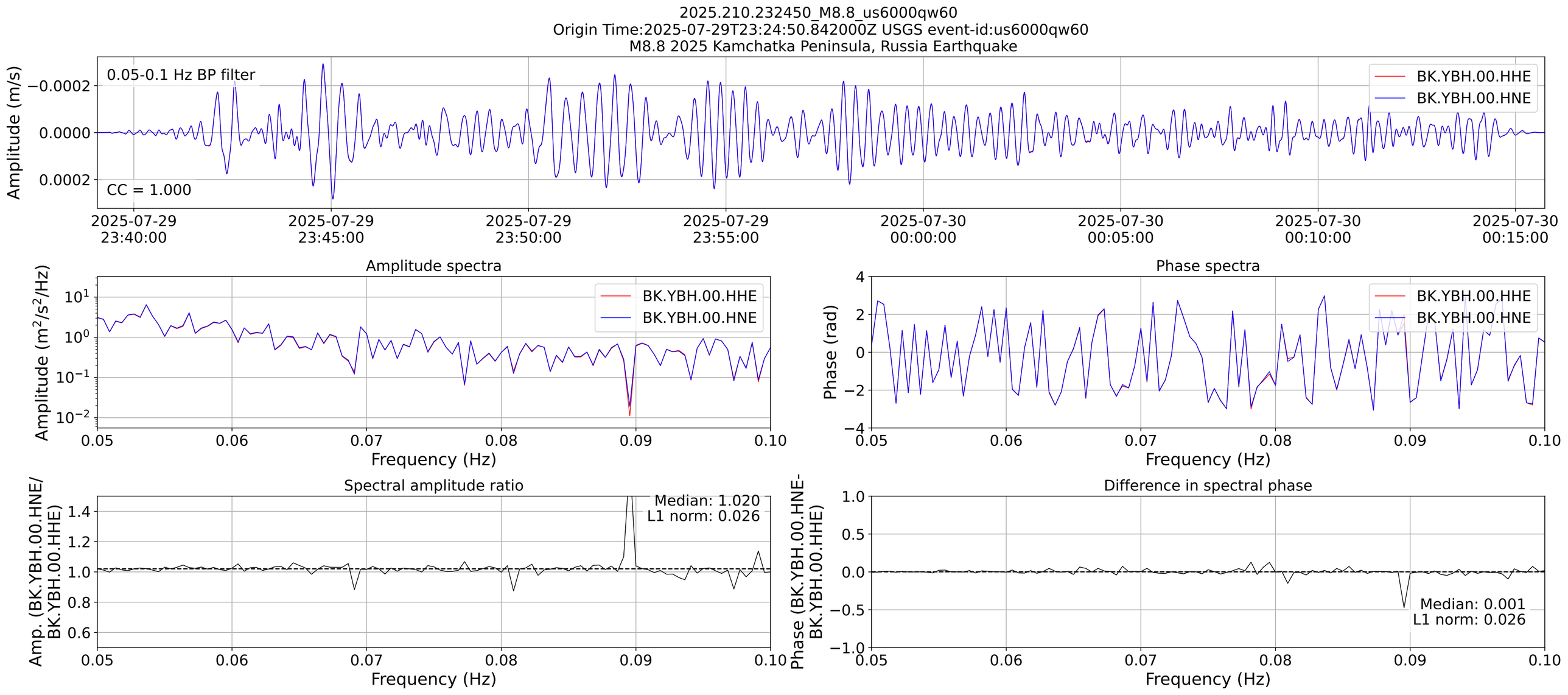

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.WSRE.00.HHN
BK.WSRE.00.HNN
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNN/ BK.WSRE.00.HHN)
Median: 1.020
L1 norm: 0.025
Difference in spectral phase
Phase (BK.WSRE.00.HNN- BK.WSRE.00.HHN)
Median: -0.008
L1 norm: 0.031

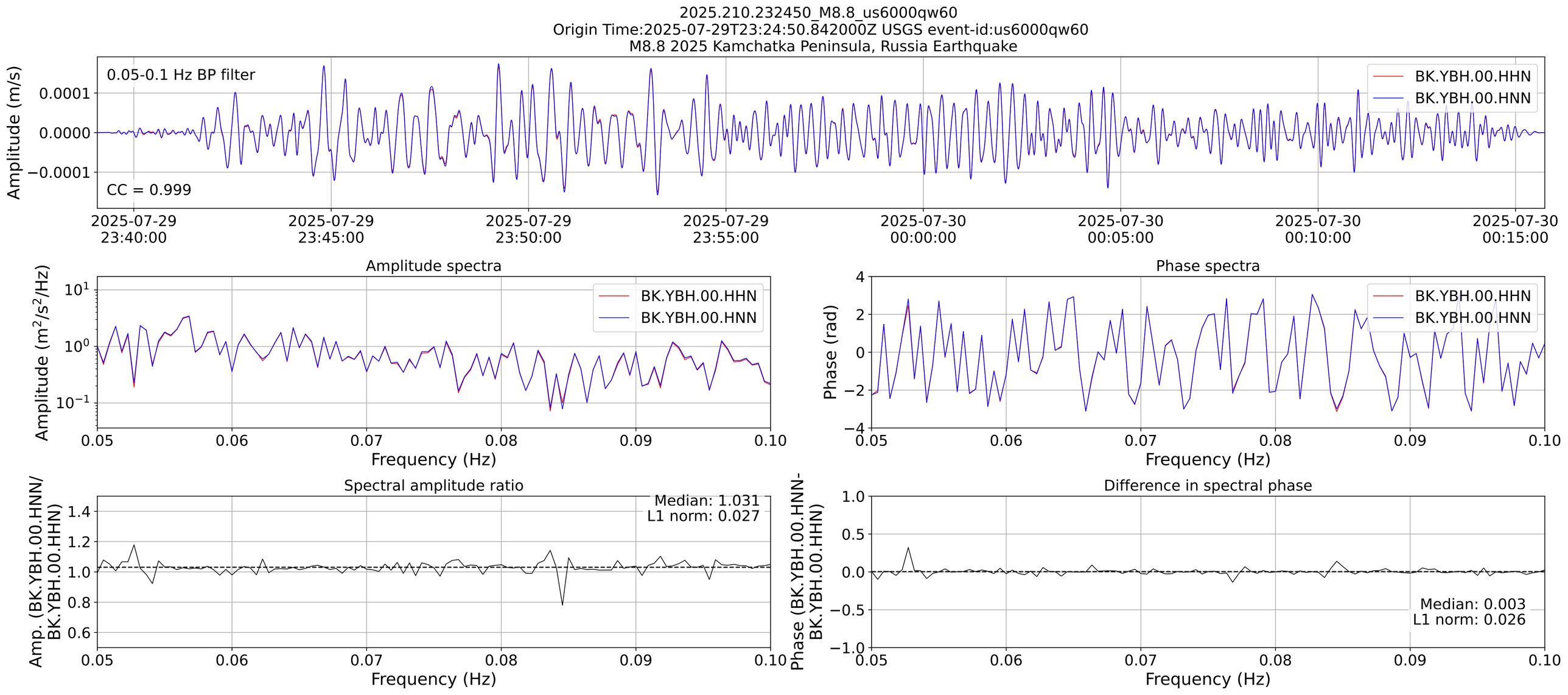

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
BK.WSRE.00.HHZ
BK.WSRE.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNZ/ BK.WSRE.00.HHZ)
Median: 0.967
L1 norm: 0.123
Difference in spectral phase
Phase (BK.WSRE.00.HNZ- BK.WSRE.00.HHZ)
Median: 0.002
L1 norm: 0.147

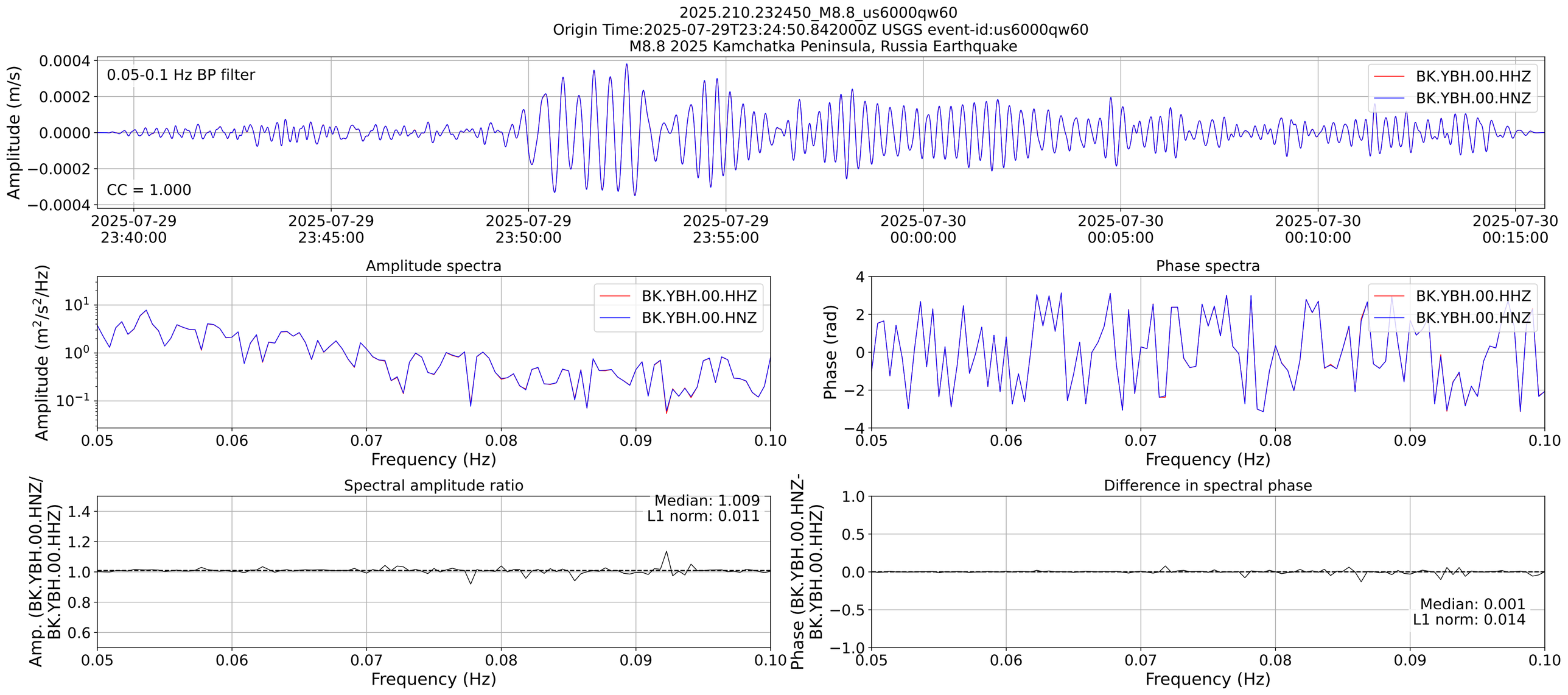

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WTWN.00.HHE
BK.WTWN.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNE/ BK.WTWN.00.HHE)
Median: 1.036
L1 norm: 0.029
Difference in spectral phase
Phase (BK.WTWN.00.HNE- BK.WTWN.00.HHE)
Median: -0.001
L1 norm: 0.020

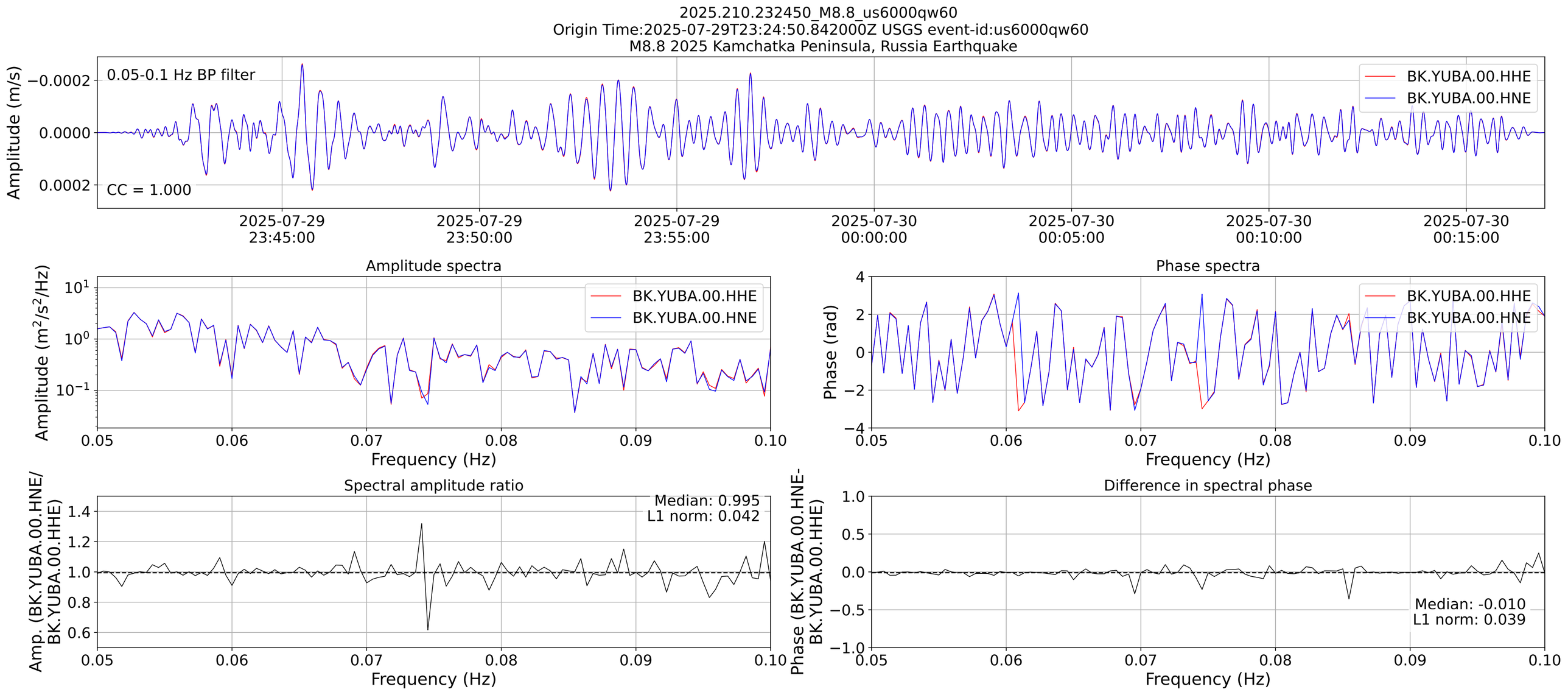

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WTWN.00.HHN
BK.WTWN.00.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNN/ BK.WTWN.00.HHN)
Median: 1.030
L1 norm: 0.029
Difference in spectral phase
Phase (BK.WTWN.00.HNN- BK.WTWN.00.HHN)
Median: 0.003
L1 norm: 0.027

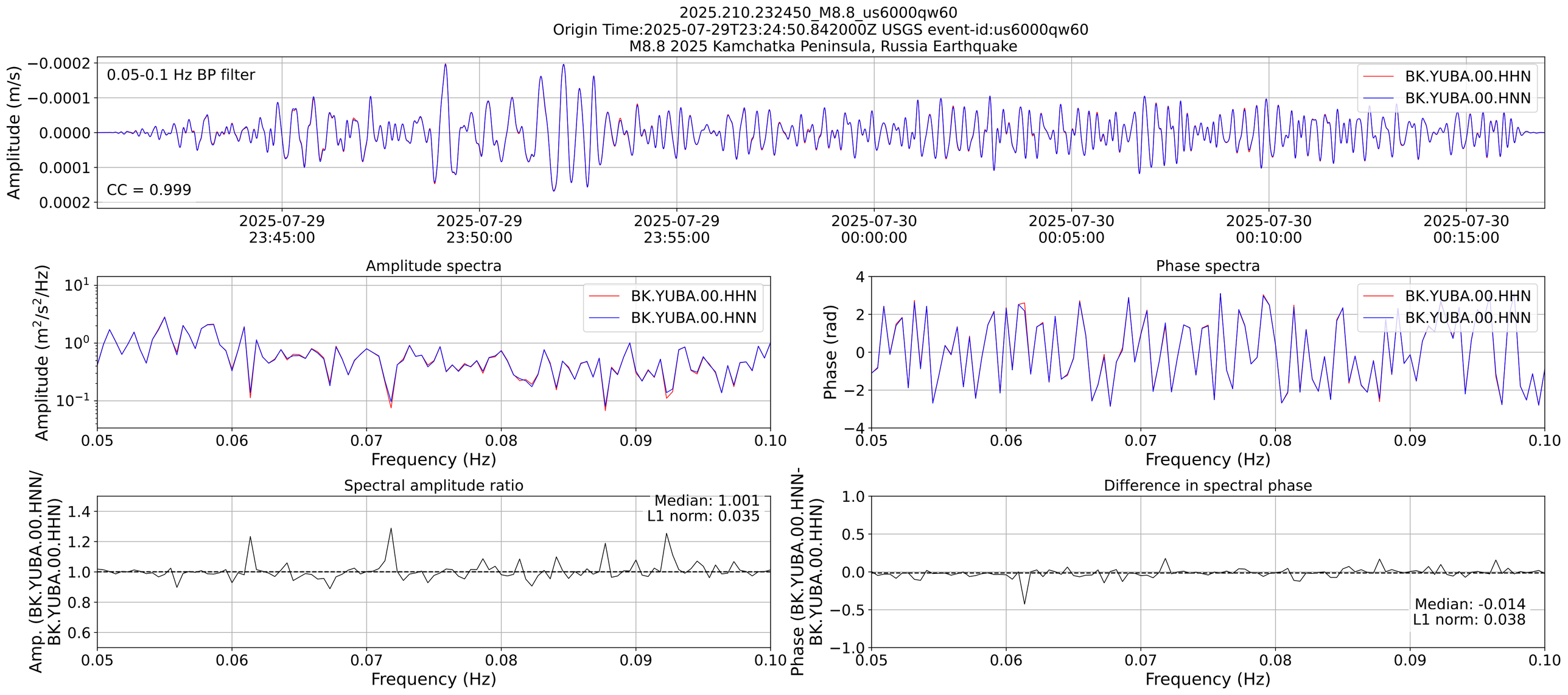

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.WTWN.00.HHZ
BK.WTWN.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNZ/ BK.WTWN.00.HHZ)
Median: 1.021
L1 norm: 0.020
Difference in spectral phase
Phase (BK.WTWN.00.HNZ- BK.WTWN.00.HHZ)
Median: 0.008
L1 norm: 0.024

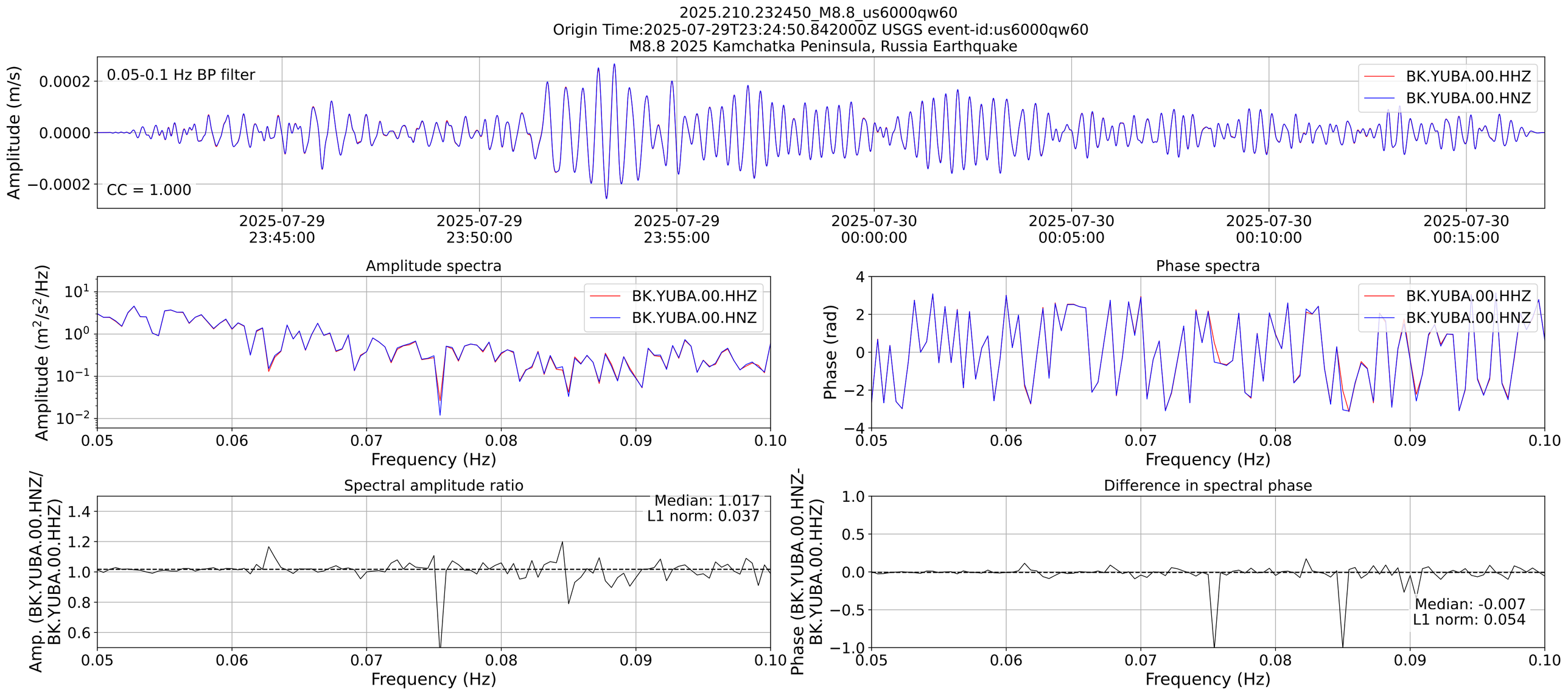

2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.YBH.00.HHE
BK.YBH.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNE/ BK.YBH.00.HHE)
Median: 1.020
L1 norm: 0.026
Difference in spectral phase
Phase (BK.YBH.00.HNE- BK.YBH.00.HHE)
Median: 0.001
L1 norm: 0.026


2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.YBH.00.HHN
BK.YBH.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNN/ BK.YBH.00.HHN)
Median: 1.031
L1 norm: 0.027
Difference in spectral phase
Phase (BK.YBH.00.HNN- BK.YBH.00.HHN)
Median: 0.003
L1 norm: 0.026


2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.YBH.00.HHZ
BK.YBH.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNZ/ BK.YBH.00.HHZ)
Median: 1.009
L1 norm: 0.011
Difference in spectral phase
Phase (BK.YBH.00.HNZ- BK.YBH.00.HHZ)
Median: 0.001
L1 norm: 0.014


2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.YUBA.00.HHE
BK.YUBA.00.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNE/ BK.YUBA.00.HHE)
Median: 0.995
L1 norm: 0.042
Difference in spectral phase
Phase (BK.YUBA.00.HNE- BK.YUBA.00.HHE)
Median: -0.010
L1 norm: 0.039


2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
BK.YUBA.00.HHN
BK.YUBA.00.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNN/ BK.YUBA.00.HHN)
Median: 1.001
L1 norm: 0.035
Difference in spectral phase
Phase (BK.YUBA.00.HNN- BK.YUBA.00.HHN)
Median: -0.014
L1 norm: 0.038


2025.210.232450_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:50.842000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
BK.YUBA.00.HHZ
BK.YUBA.00.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 00:05:00
2025-07-30 00:10:00
2025-07-30 00:15:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNZ/ BK.YUBA.00.HHZ)
Median: 1.017
L1 norm: 0.037
Difference in spectral phase
Phase (BK.YUBA.00.HNZ- BK.YUBA.00.HHZ)
Median: -0.007
L1 norm: 0.054