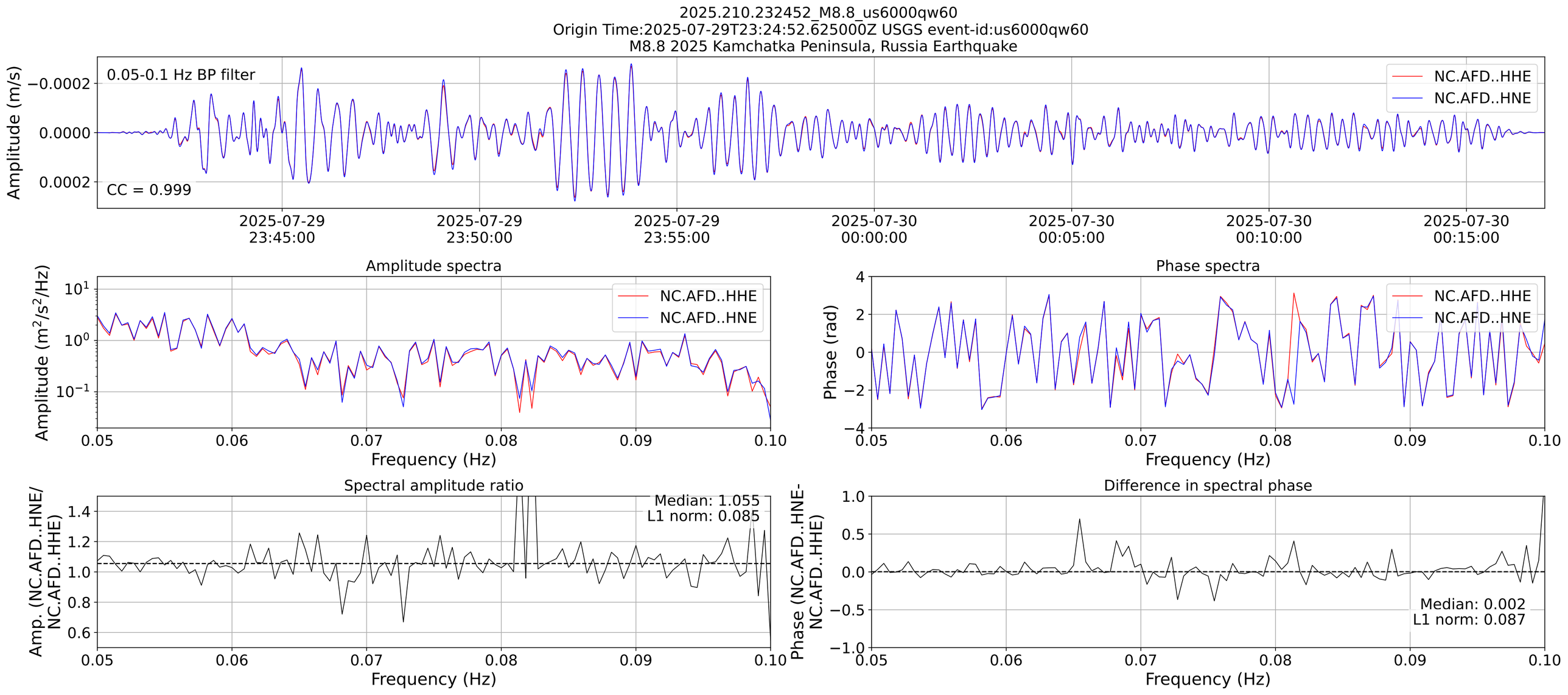
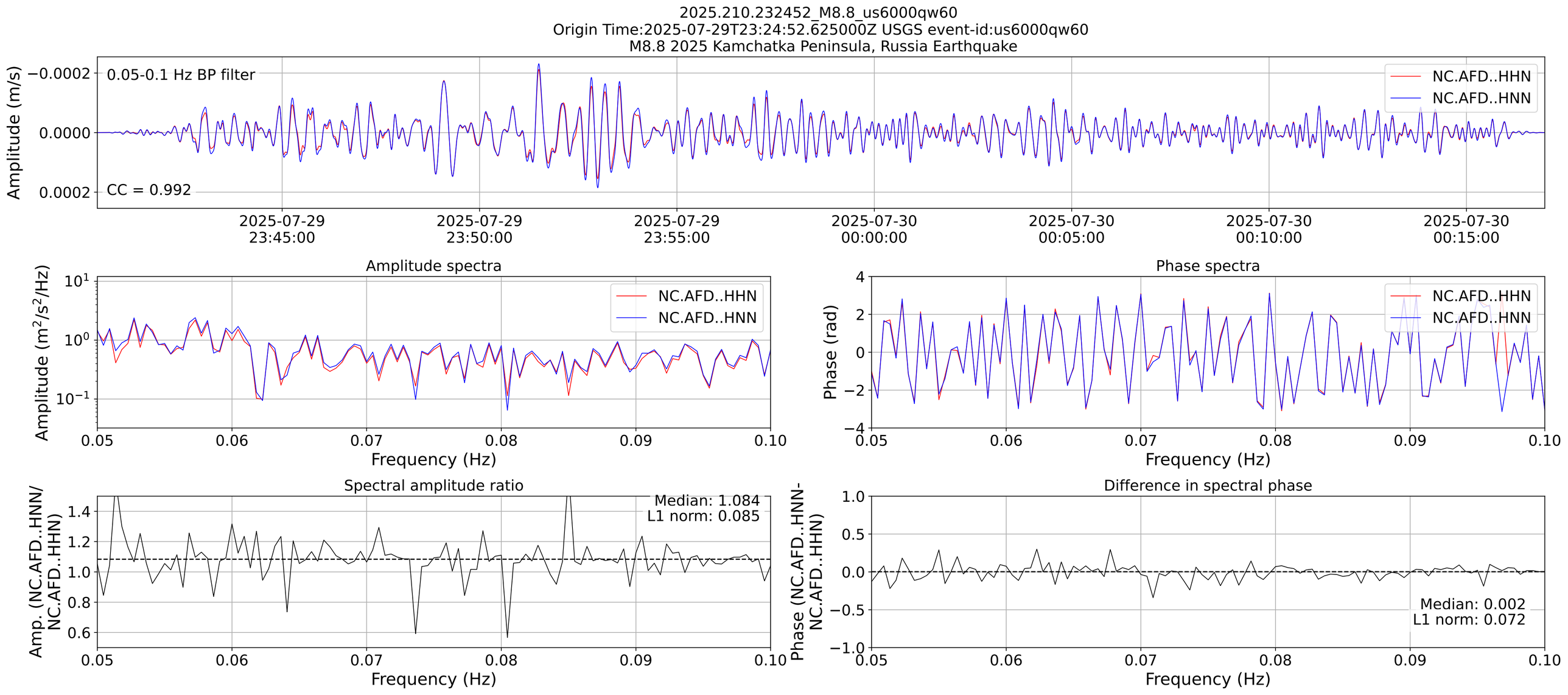
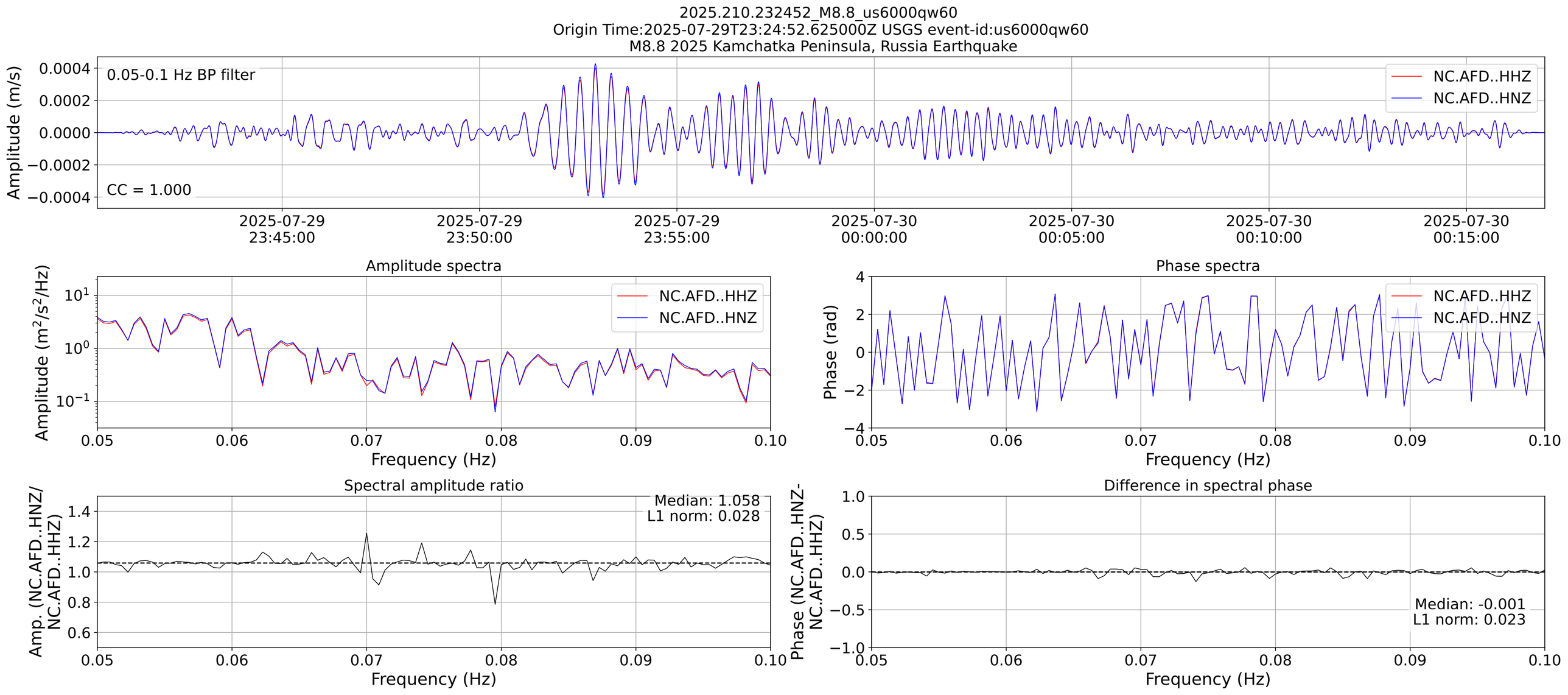
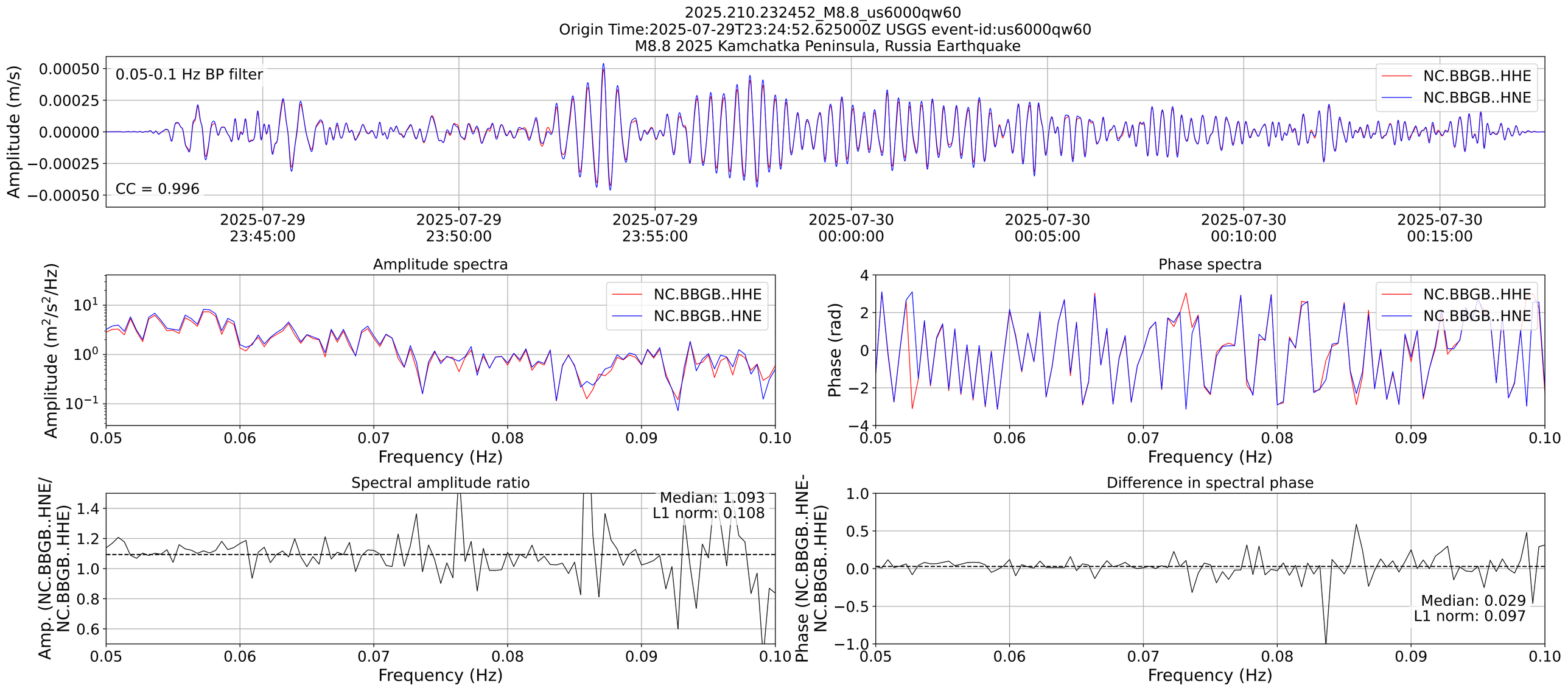
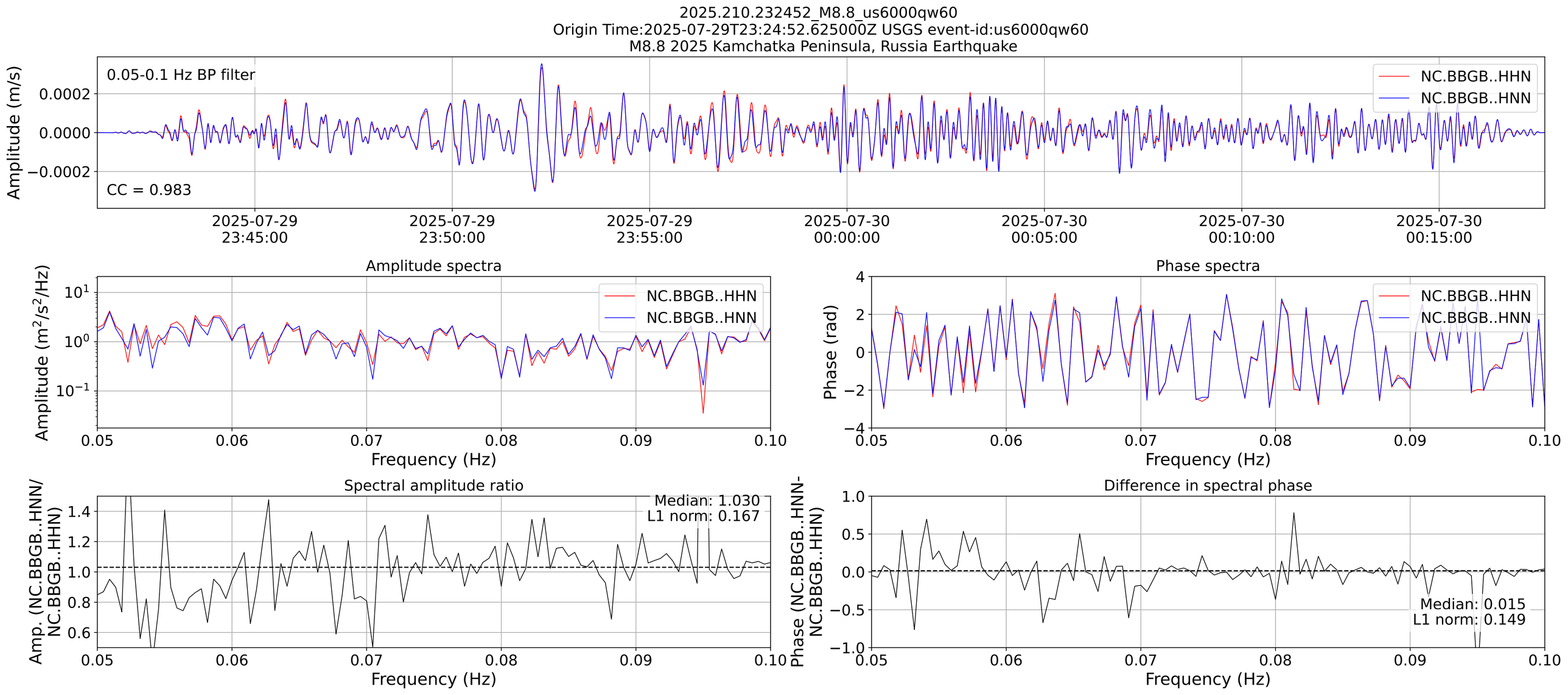
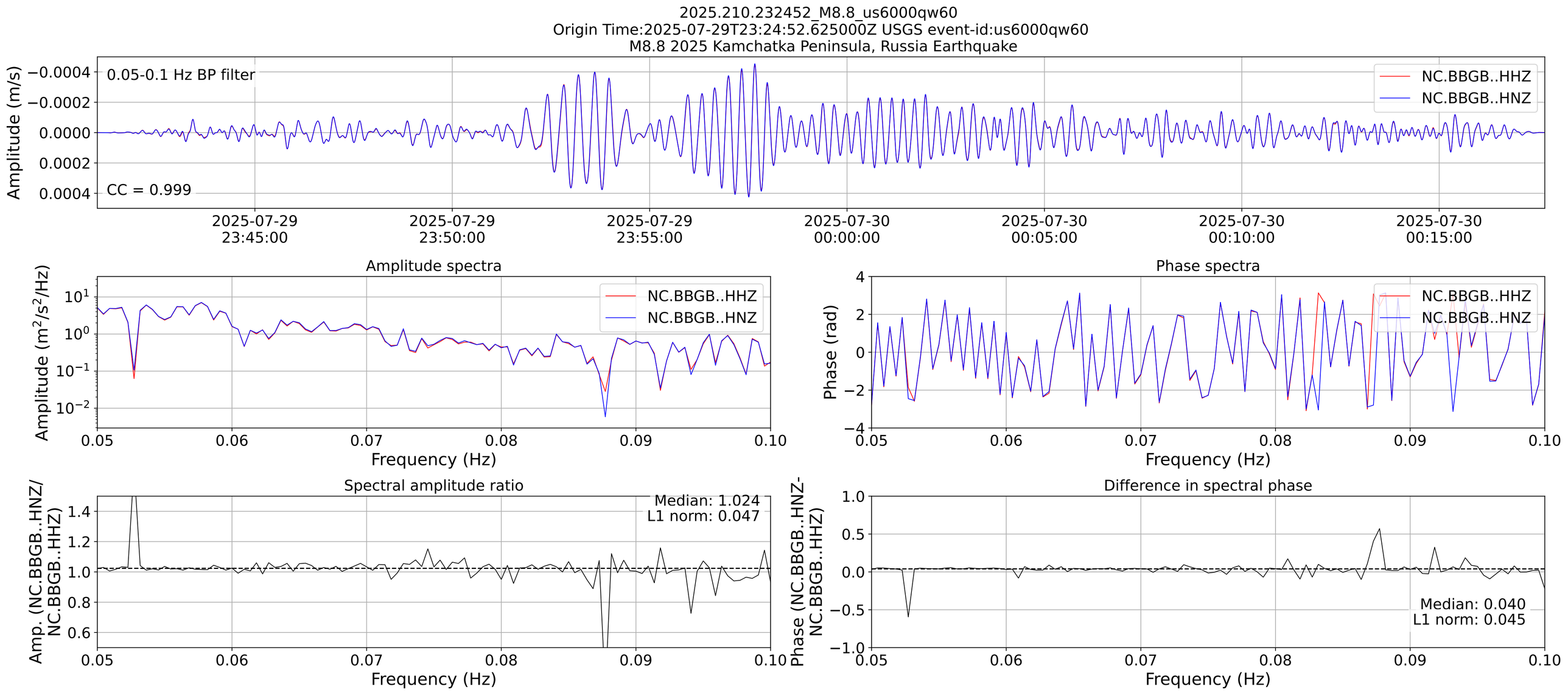

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.AFD..HHE
NC.AFD..HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.AFD..HNE/ NC.AFD..HHE)
Median: 1.055
L1 norm: 0.085
Difference in spectral phase
Phase (NC.AFD..HNE- NC.AFD..HHE)
Median: 0.002
L1 norm: 0.087

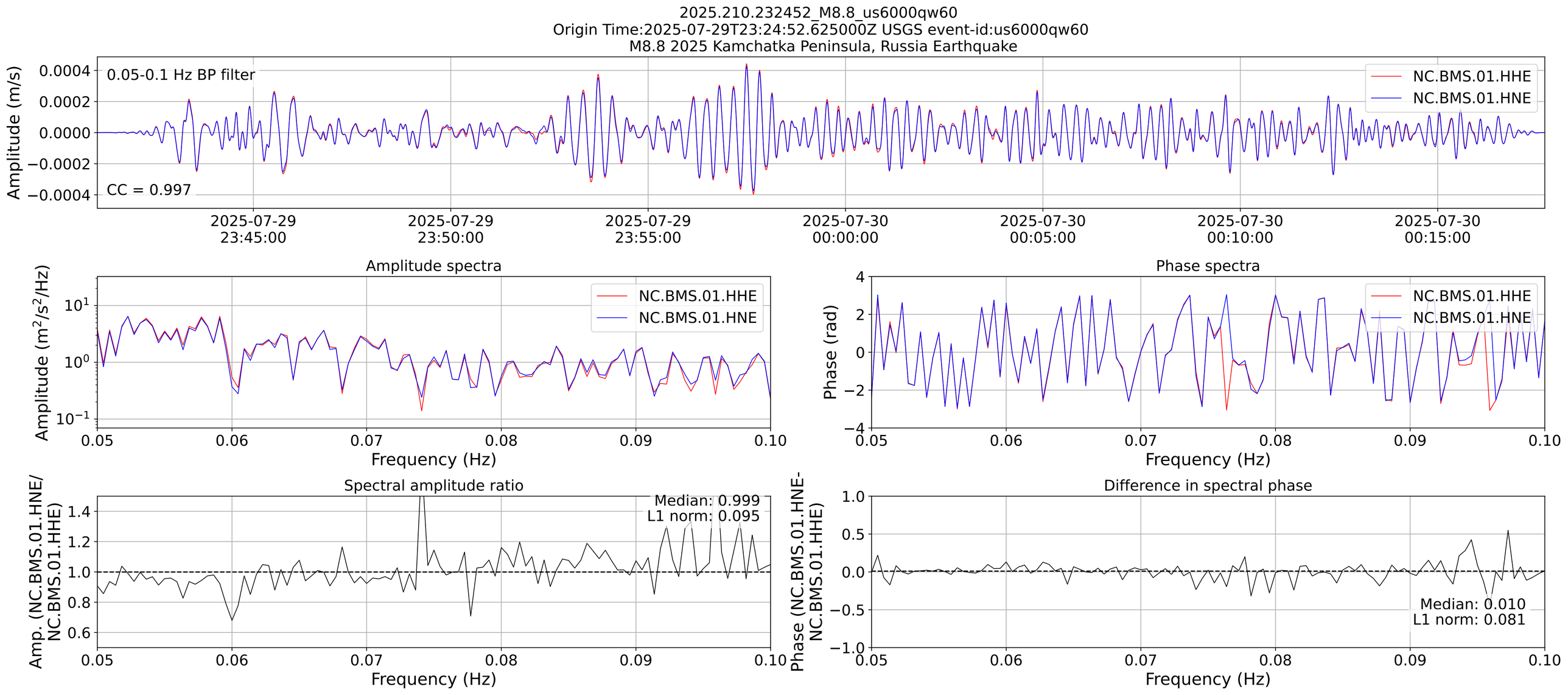

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.992
NC.AFD..HHN
NC.AFD..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.AFD..HNN/ NC.AFD..HHN)
Median: 1.084
L1 norm: 0.085
Difference in spectral phase
Phase (NC.AFD..HNN- NC.AFD..HHN)
Median: 0.002
L1 norm: 0.072

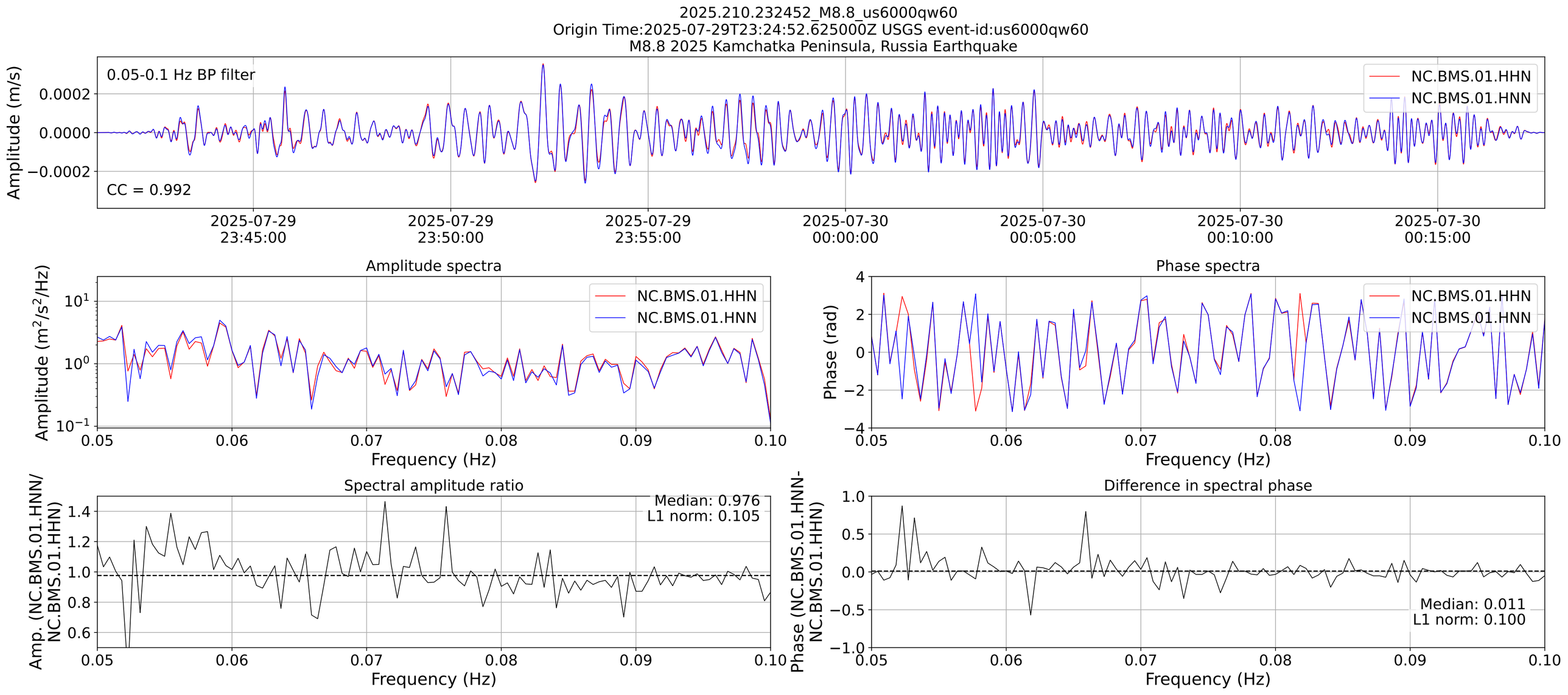

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.AFD..HHZ
NC.AFD..HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.AFD..HNZ/ NC.AFD..HHZ)
Median: 1.058
L1 norm: 0.028
Difference in spectral phase
Phase (NC.AFD..HNZ- NC.AFD..HHZ)
Median: -0.001
L1 norm: 0.023

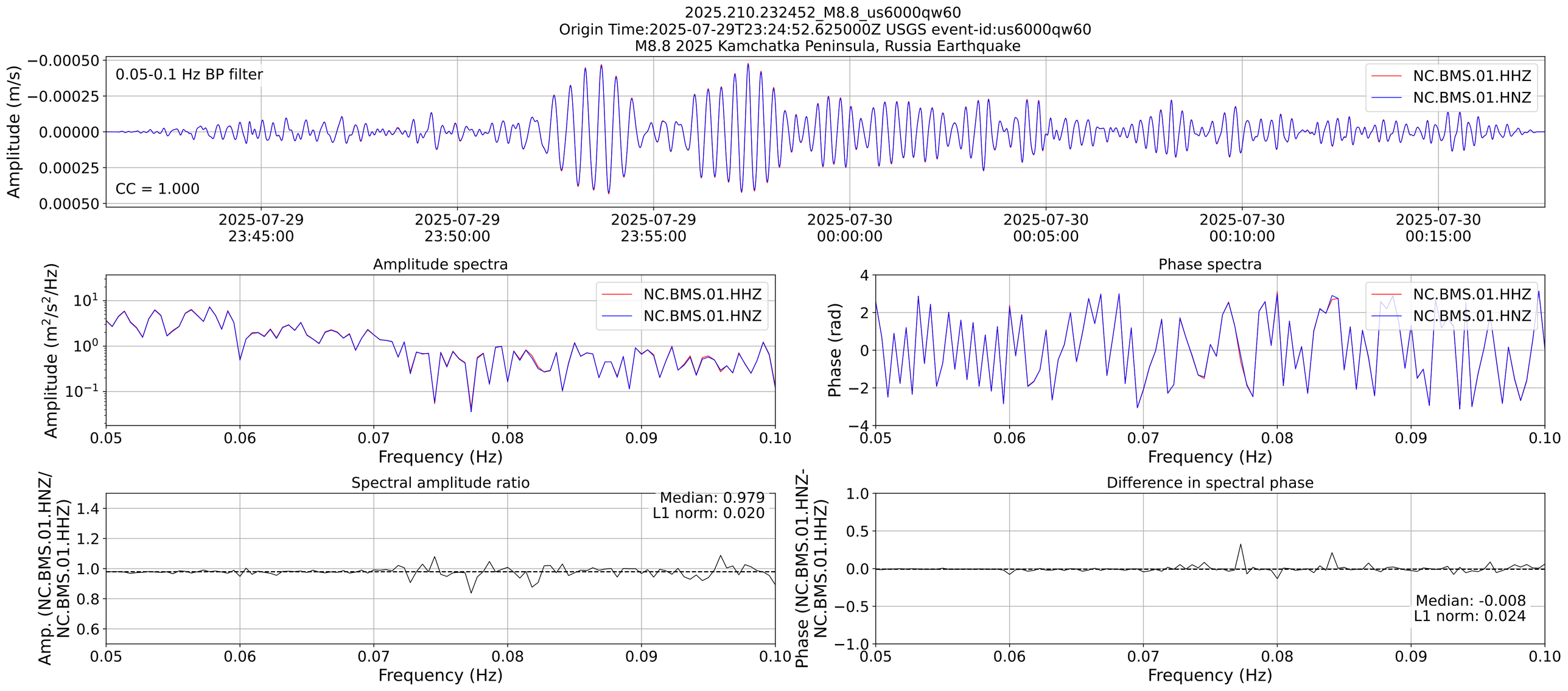

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
NC.BBGB..HHE
NC.BBGB..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.BBGB..HNE/ NC.BBGB..HHE)
Median: 1.093
L1 norm: 0.108
Difference in spectral phase
Phase (NC.BBGB..HNE- NC.BBGB..HHE)
Median: 0.029
L1 norm: 0.097

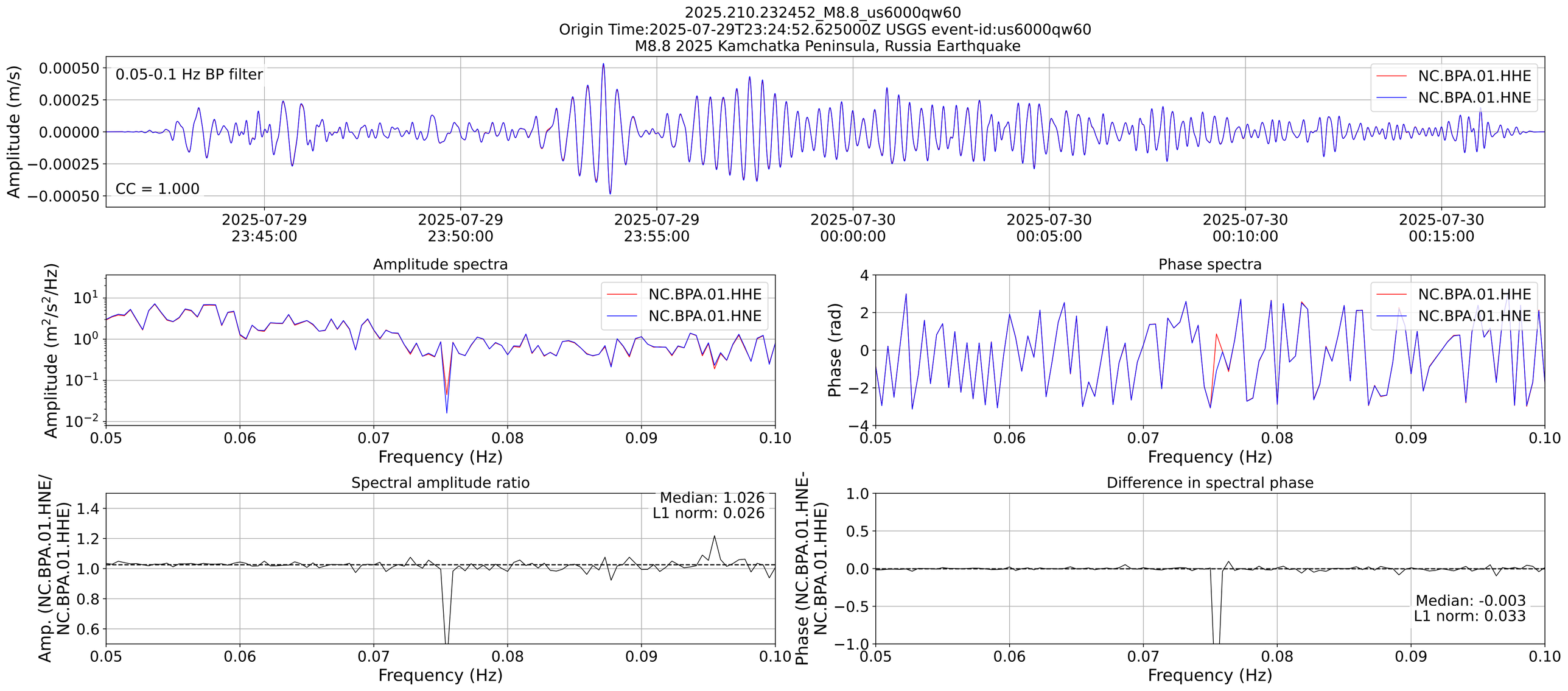

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.983
NC.BBGB..HHN
NC.BBGB..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.BBGB..HNN/ NC.BBGB..HHN)
Median: 1.030
L1 norm: 0.167
Difference in spectral phase
Phase (NC.BBGB..HNN- NC.BBGB..HHN)
Median: 0.015
L1 norm: 0.149

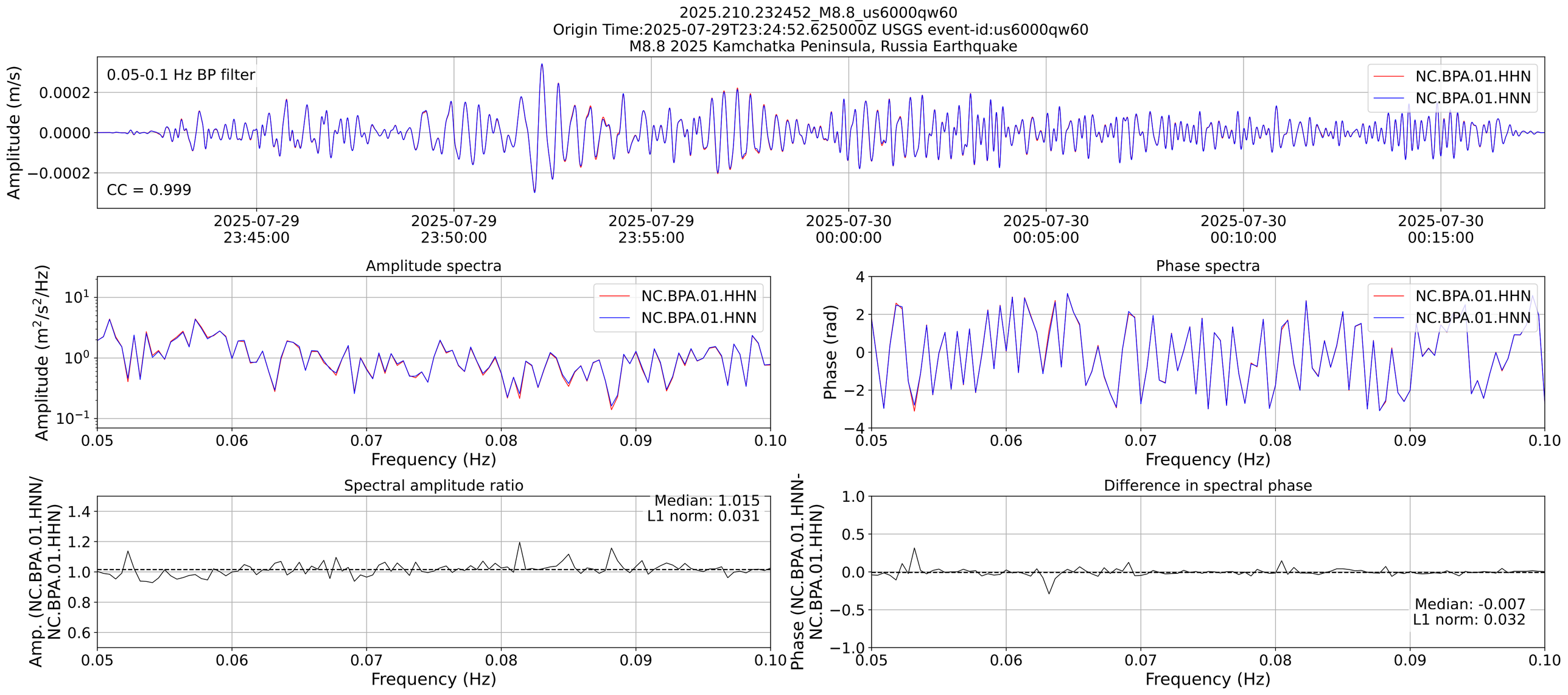

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.BBGB..HHZ
NC.BBGB..HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.BBGB..HNZ/ NC.BBGB..HHZ)
Median: 1.024
L1 norm: 0.047
Difference in spectral phase
Phase (NC.BBGB..HNZ- NC.BBGB..HHZ)
Median: 0.040
L1 norm: 0.045

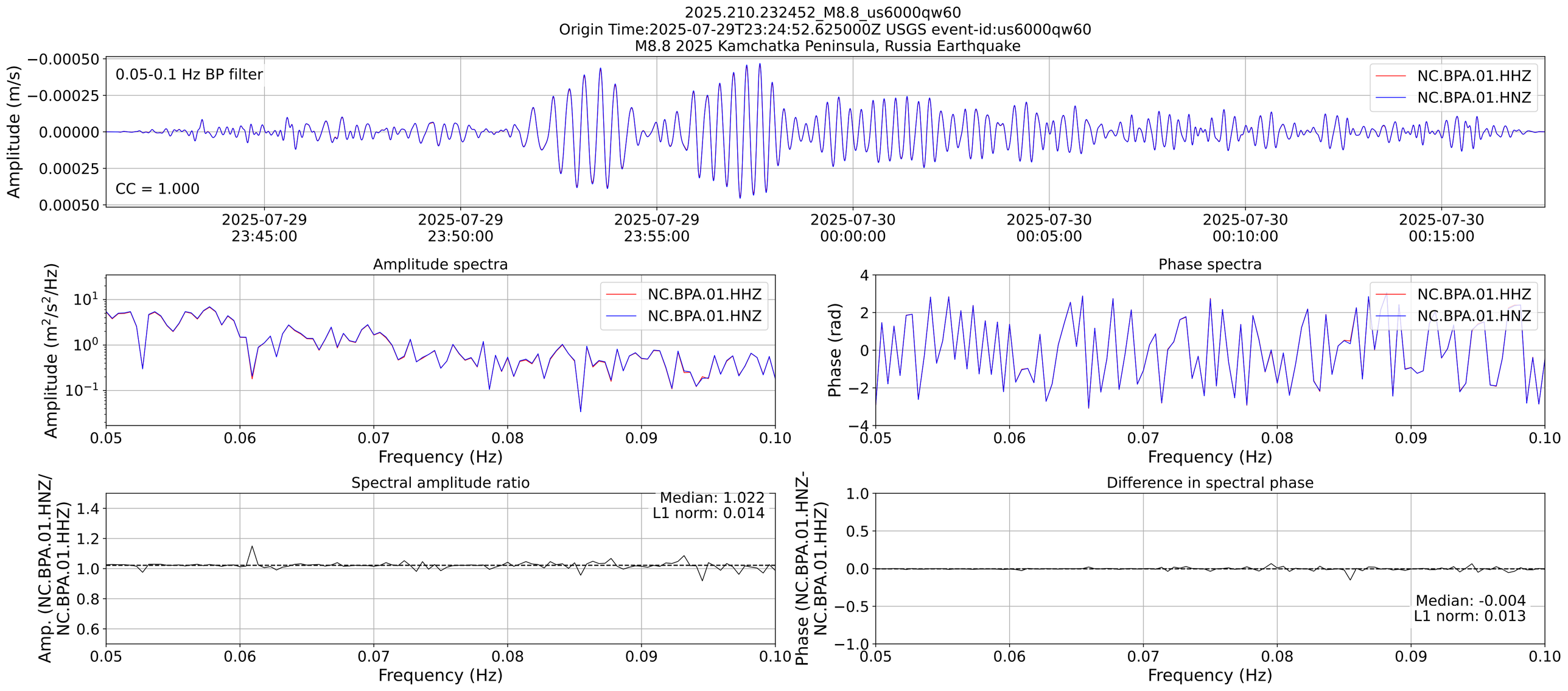

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.BMS.01.HHE
NC.BMS.01.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.BMS.01.HNE/ NC.BMS.01.HHE)
Median: 0.999
L1 norm: 0.095
Difference in spectral phase
Phase (NC.BMS.01.HNE- NC.BMS.01.HHE)
Median: 0.010
L1 norm: 0.081

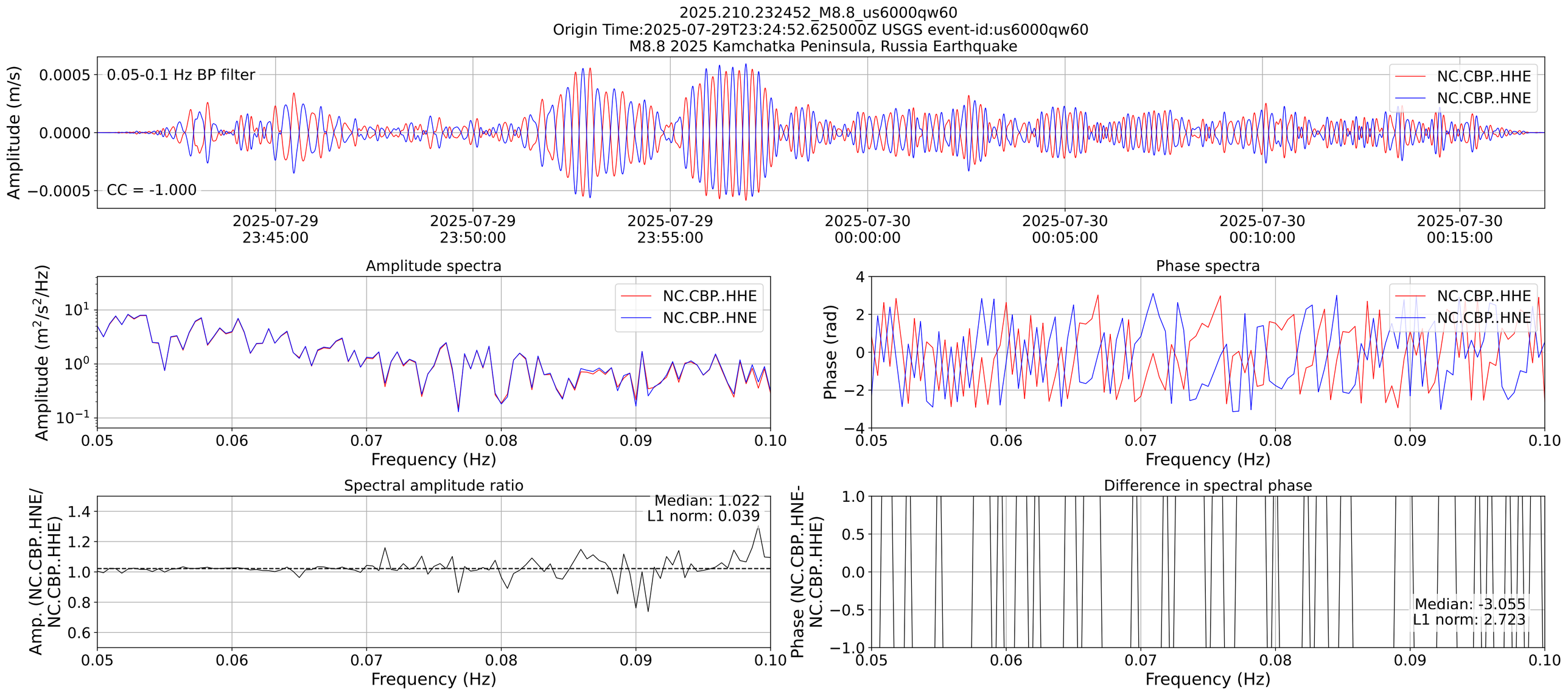

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.992
NC.BMS.01.HHN
NC.BMS.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.BMS.01.HNN/ NC.BMS.01.HHN)
Median: 0.976
L1 norm: 0.105
Difference in spectral phase
Phase (NC.BMS.01.HNN-NC.BMS.01.HHN)
Median: 0.011
L1 norm: 0.100

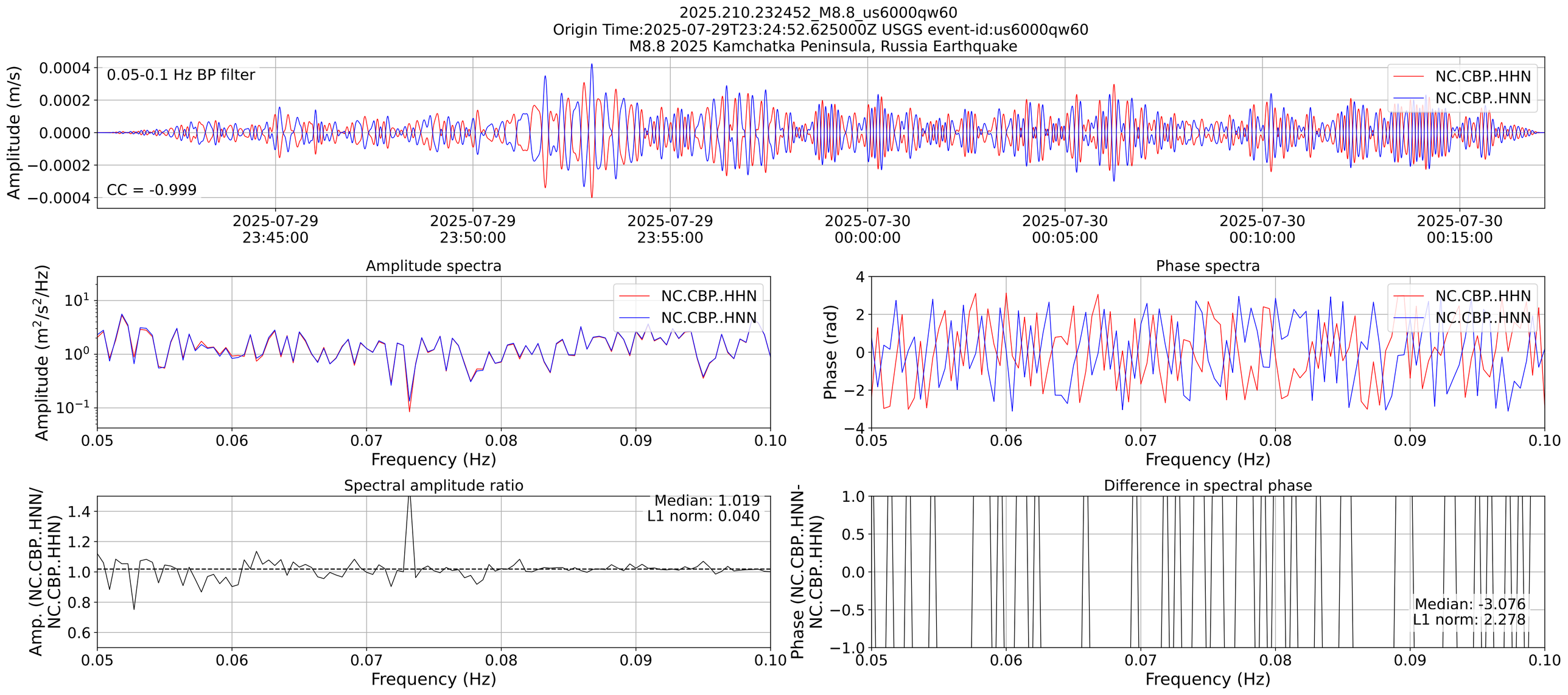

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.BMS.01.HHZ
NC.BMS.01.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.BMS.01.HNZ/ NC.BMS.01.HHZ)
Median: 0.979
L1 norm: 0.020
Difference in spectral phase
Phase (NC.BMS.01.HNZ-NC.BMS.01.HHZ)
Median: -0.008
L1 norm: 0.024

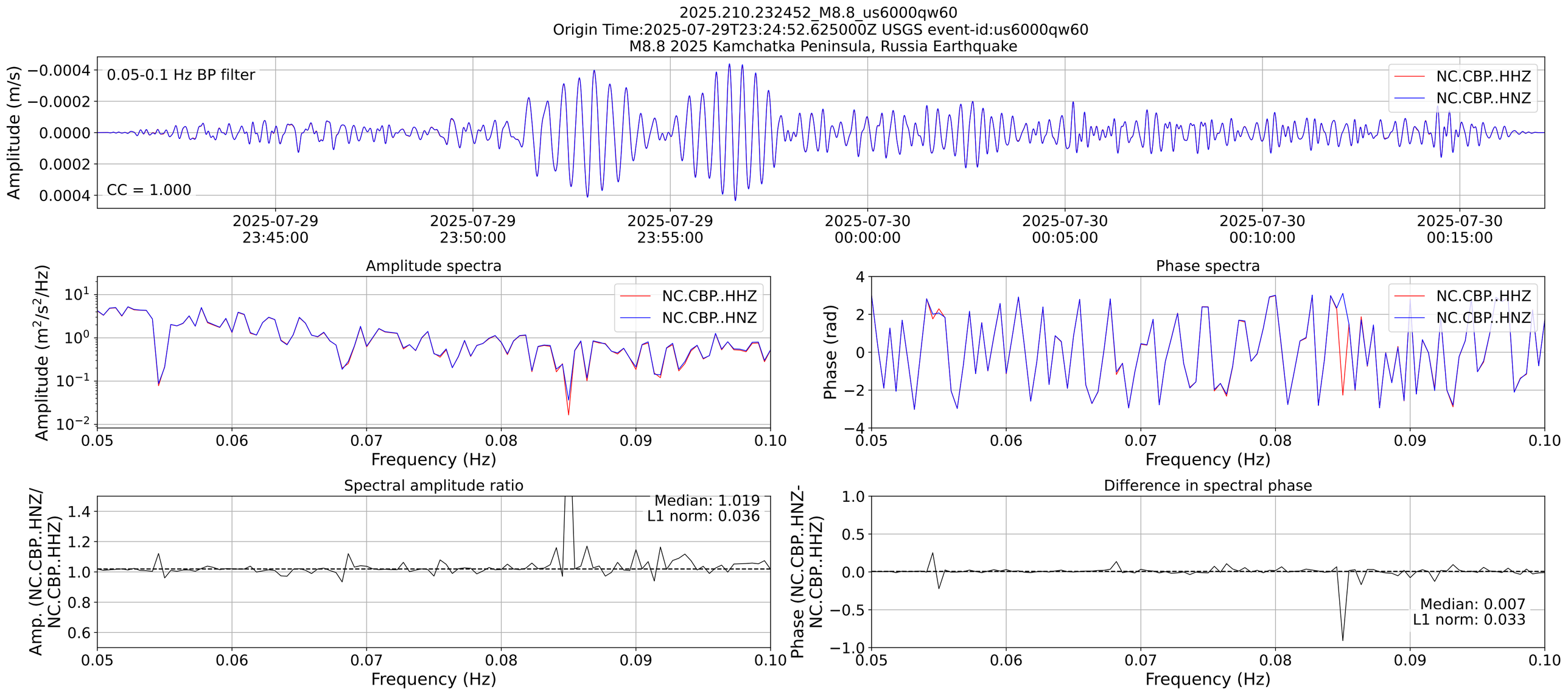

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.BPA.01.HHE
NC.BPA.01.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.BPA.01.HNE/ NC.BPA.01.HHE)
Median: 1.026
L1 norm: 0.026
Difference in spectral phase
Phase (NC.BPA.01.HNE- NC.BPA.01.HHE)
Median: -0.003
L1 norm: 0.033

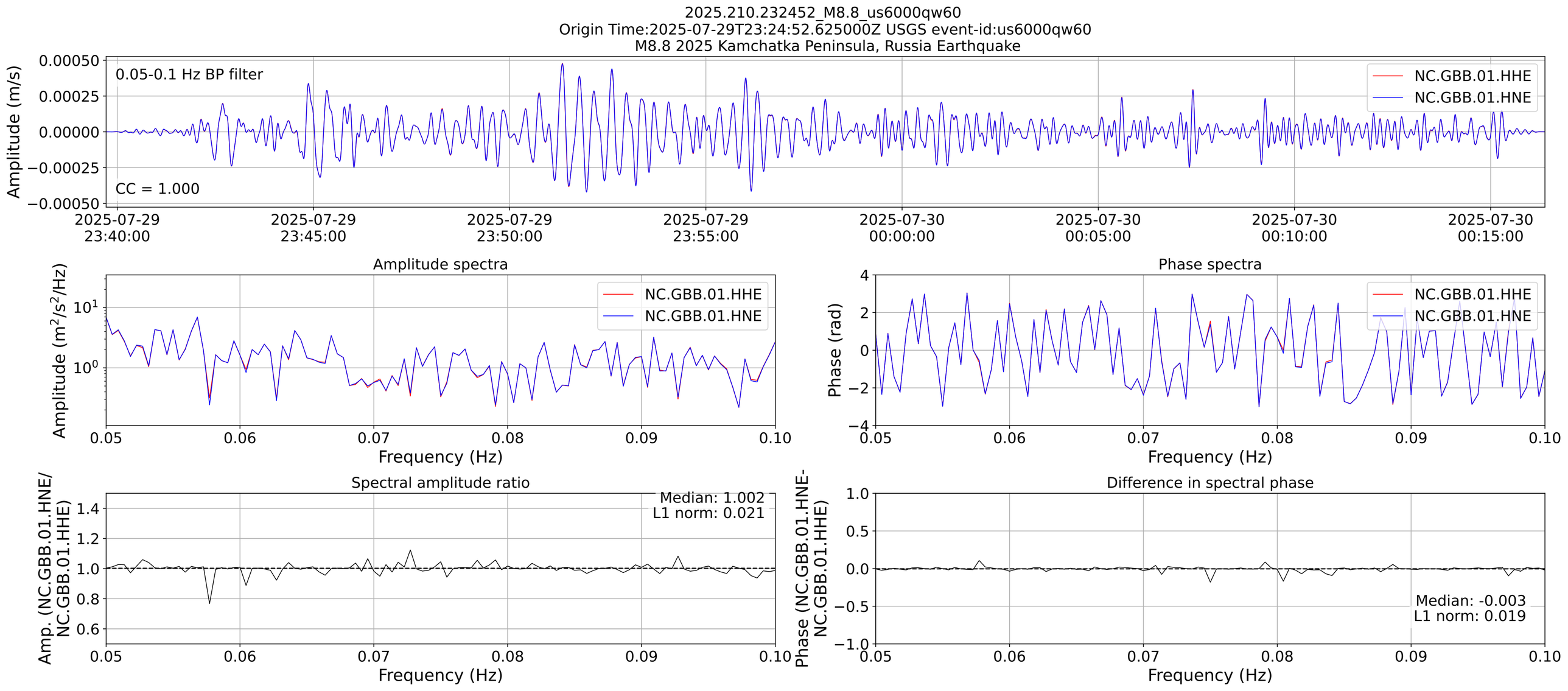

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.BPA.01.HHN
NC.BPA.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.BPA.01.HNN/ NC.BPA.01.HHN)
Median: 1.015
L1 norm: 0.031
Difference in spectral phase
Phase (NC.BPA.01.HNN-NC.BPA.01.HHN)
Median: -0.007
L1 norm: 0.032

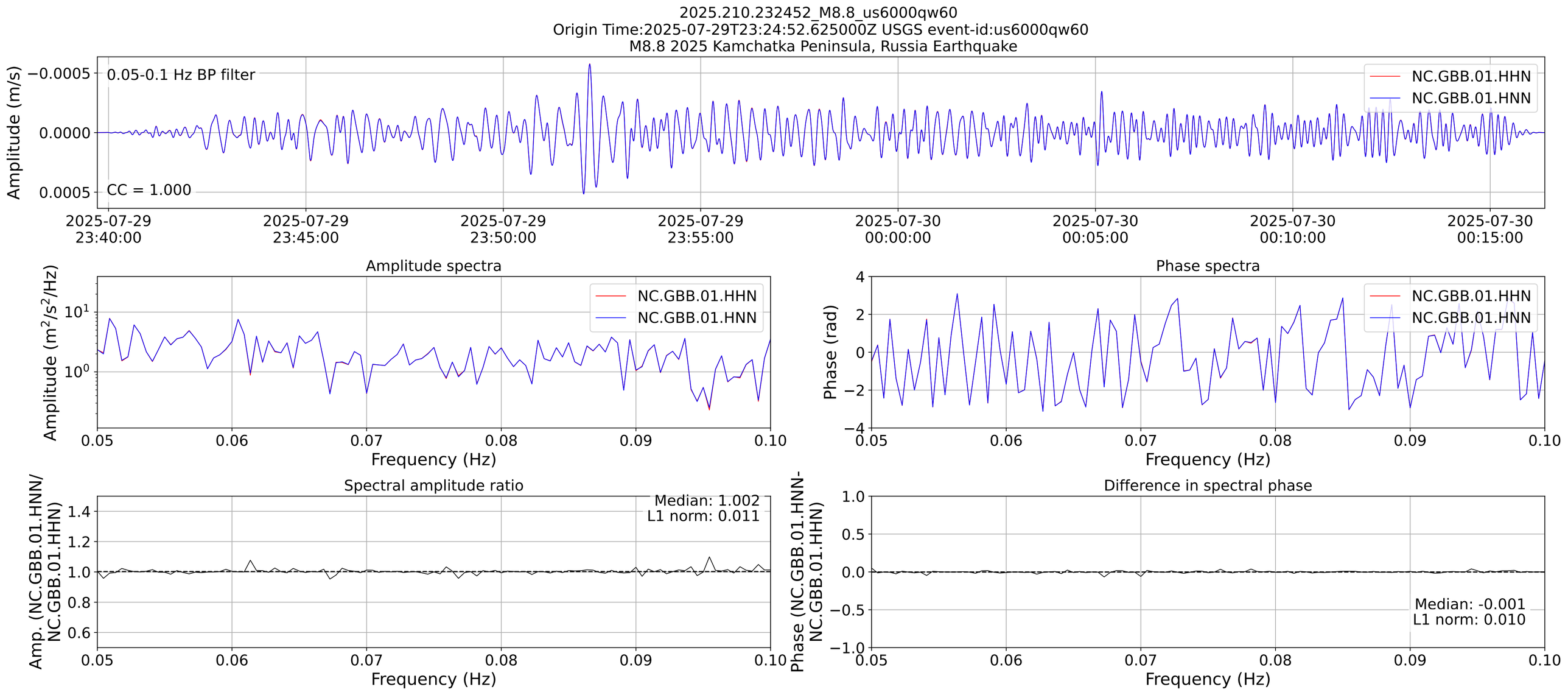

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.BPA.01.HHZ
NC.BPA.01.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.BPA.01.HNZ/ NC.BPA.01.HHZ)
Median: 1.022
L1 norm: 0.014
Difference in spectral phase
Phase (NC.BPA.01.HNZ-NC.BPA.01.HHZ)
Median: -0.004
L1 norm: 0.013

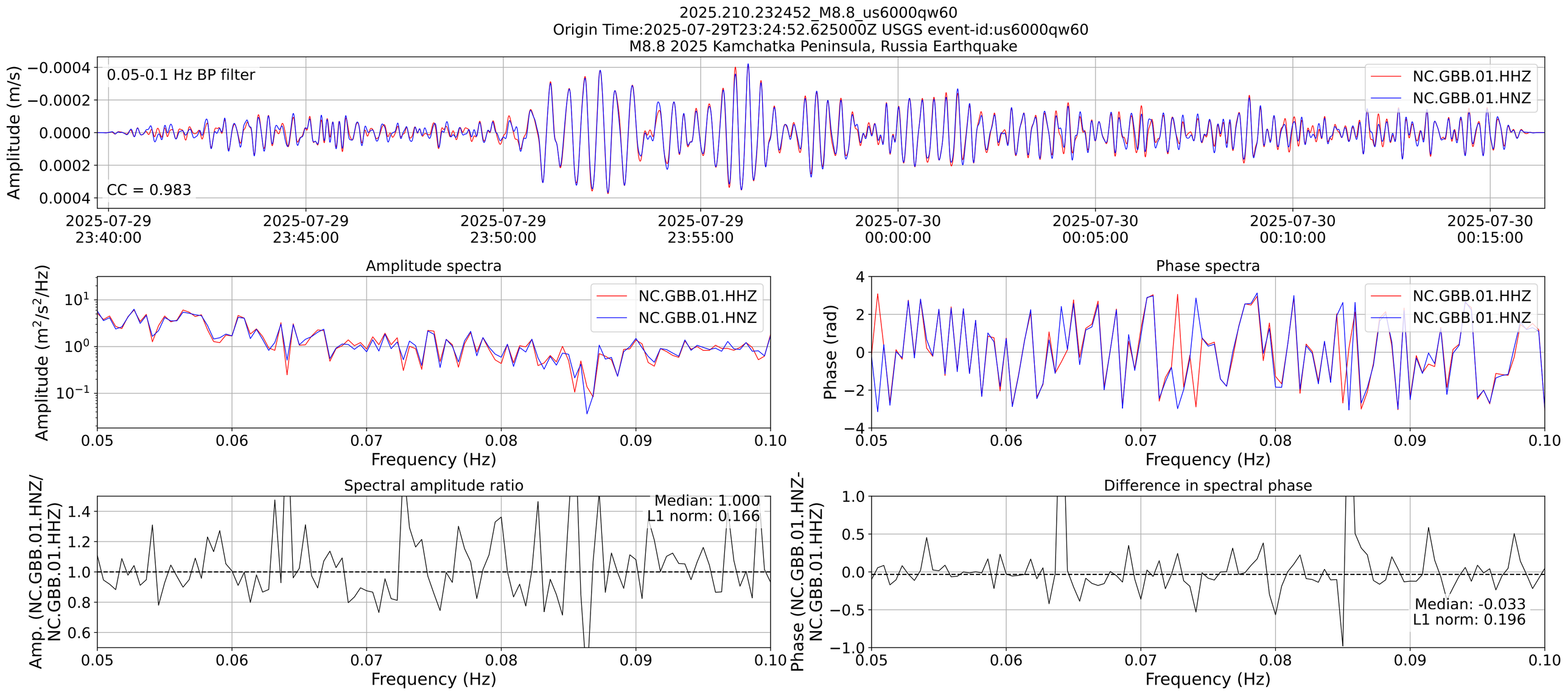

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -1.000
NC.CBP..HHE
NC.CBP..HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.CBP..HNE/ NC.CBP..HHE)
Median: 1.022
L1 norm: 0.039
Difference in spectral phase
Phase (NC.CBP..HNE- NC.CBP..HHE)
Median: -3.055
L1 norm: 2.723

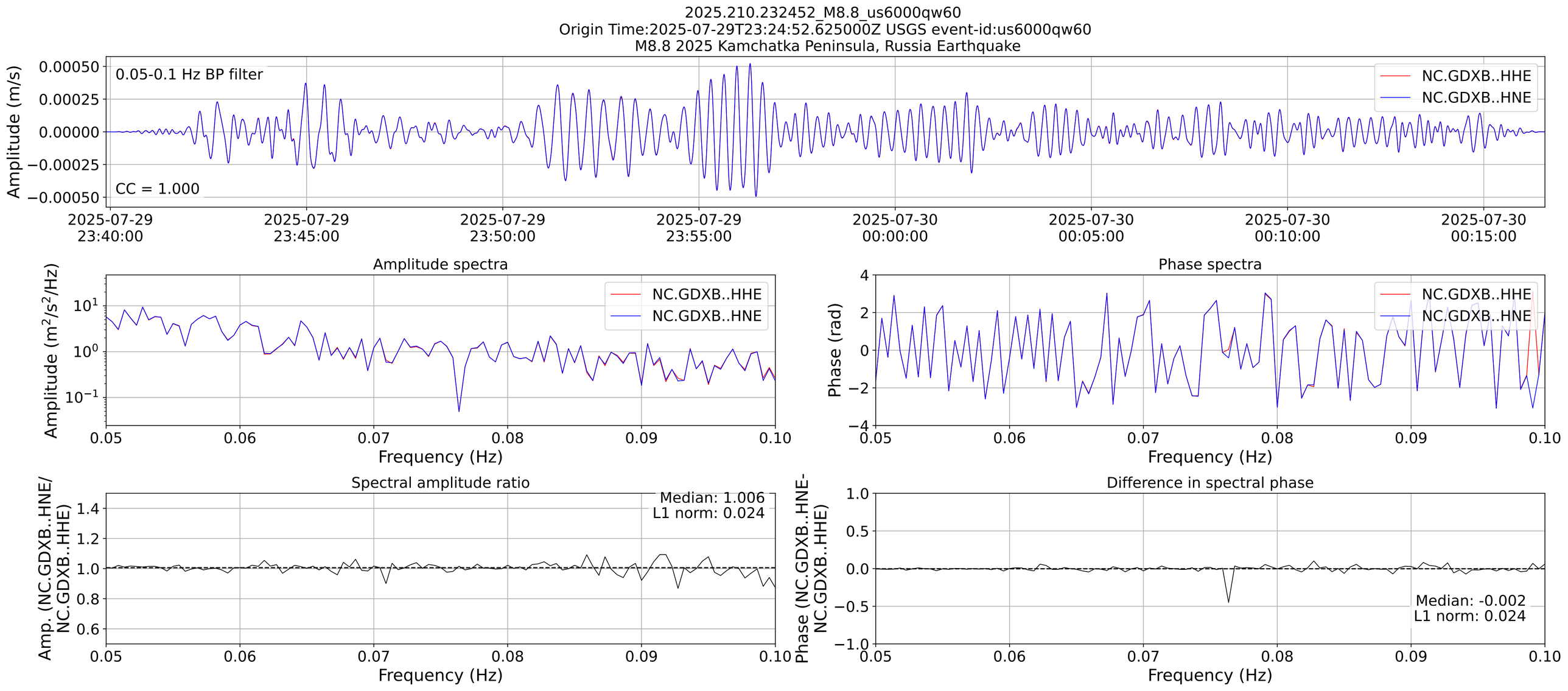

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.999
NC.CBP..HHN
NC.CBP..HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.CBP..HNN/ NC.CBP..HHN)
Median: 1.019
L1 norm: 0.040
Difference in spectral phase
Phase (NC.CBP..HNN- NC.CBP..HHN)
Median: -3.076
L1 norm: 2.278

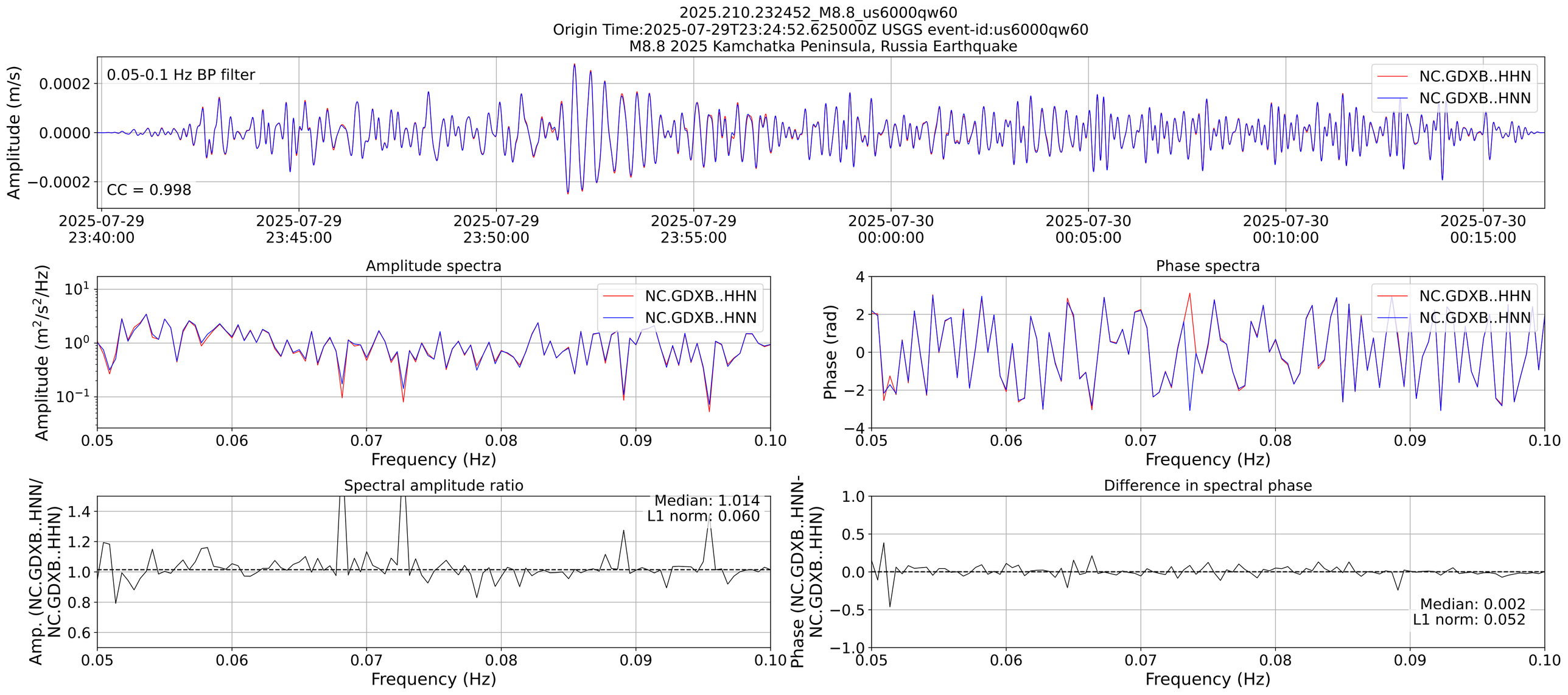

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.CBP..HHZ
NC.CBP..HNZ
Amplitude (m/s)
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
2025-07-30 00:00:00
2025-07-30 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. (NC.CBP..HNZ/ NC.CBP..HHZ)
Median: 1.019
L1 norm: 0.036
Difference in spectral phase
Phase (NC.CBP..HNZ- NC.CBP..HHZ)
Median: 0.007
L1 norm: 0.033

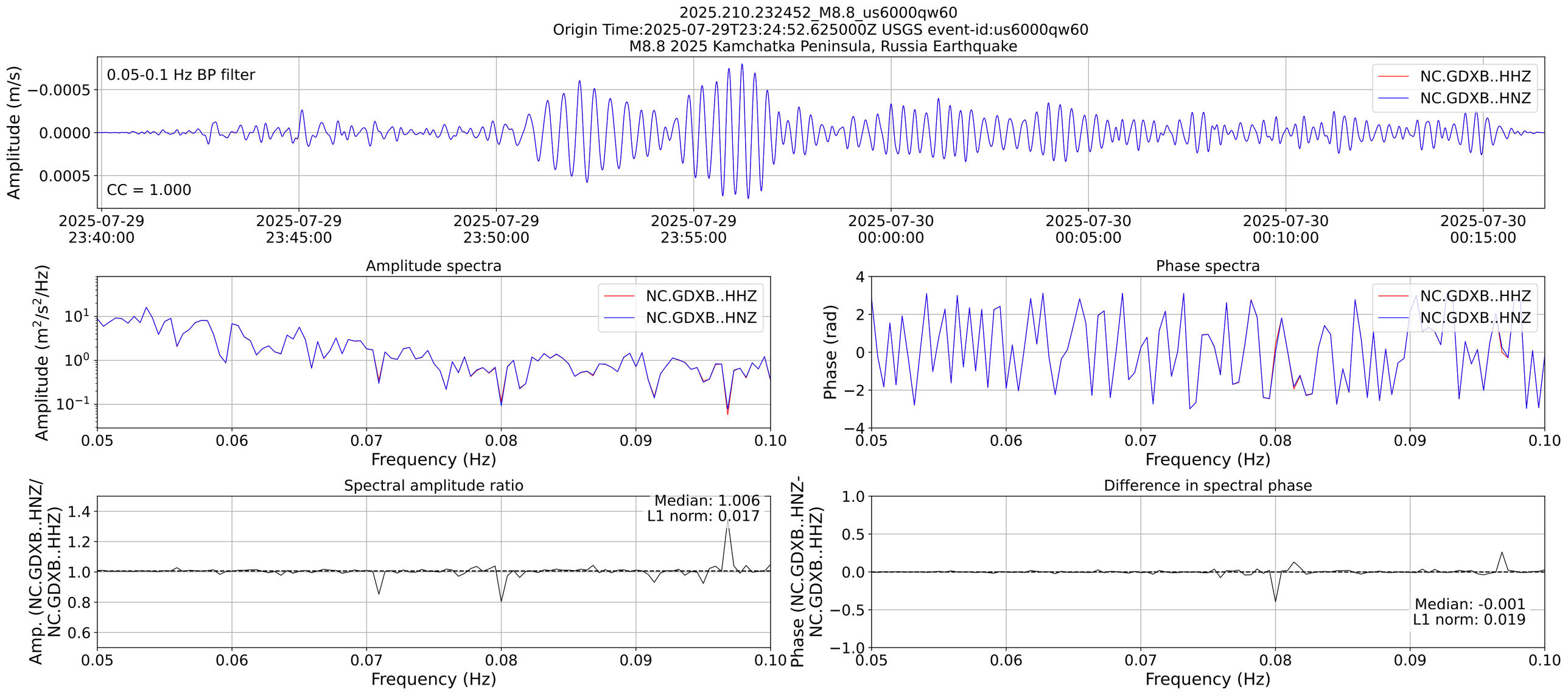

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GBB.01.HHE
NC.GBB.01.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GBB.01.HNE/ NC.GBB.01.HHE)
Median: 1.002
L1 norm: 0.021
Difference in spectral phase
Phase (NC.GBB.01.HNE- NC.GBB.01.HHE)
Median: -0.003
L1 norm: 0.019

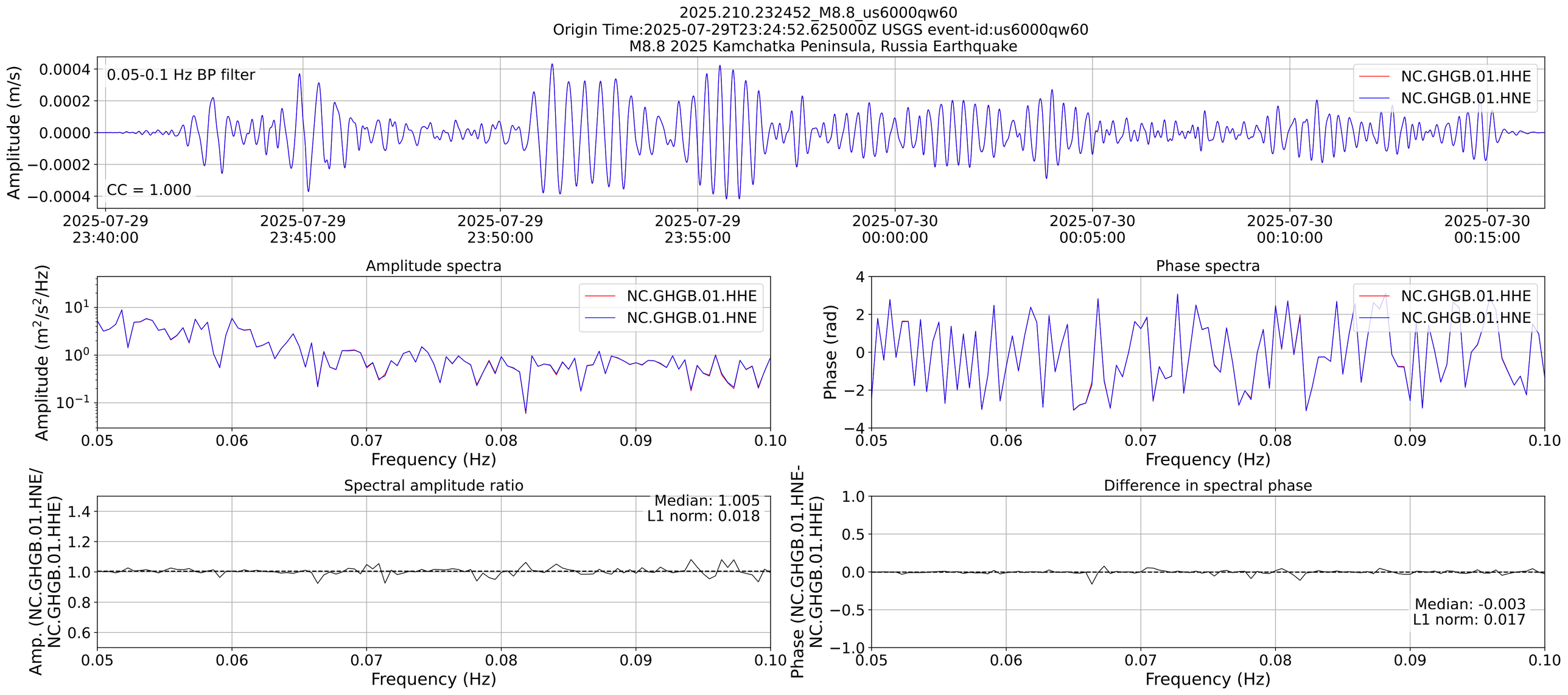

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GBB.01.HHN
NC.GBB.01.HNN
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GBB.01.HNN/ NC.GBB.01.HHN)
Median: 1.002
L1 norm: 0.011
Difference in spectral phase
Phase (NC.GBB.01.HNN-NC.GBB.01.HHN)
Median: -0.001
L1 norm: 0.010

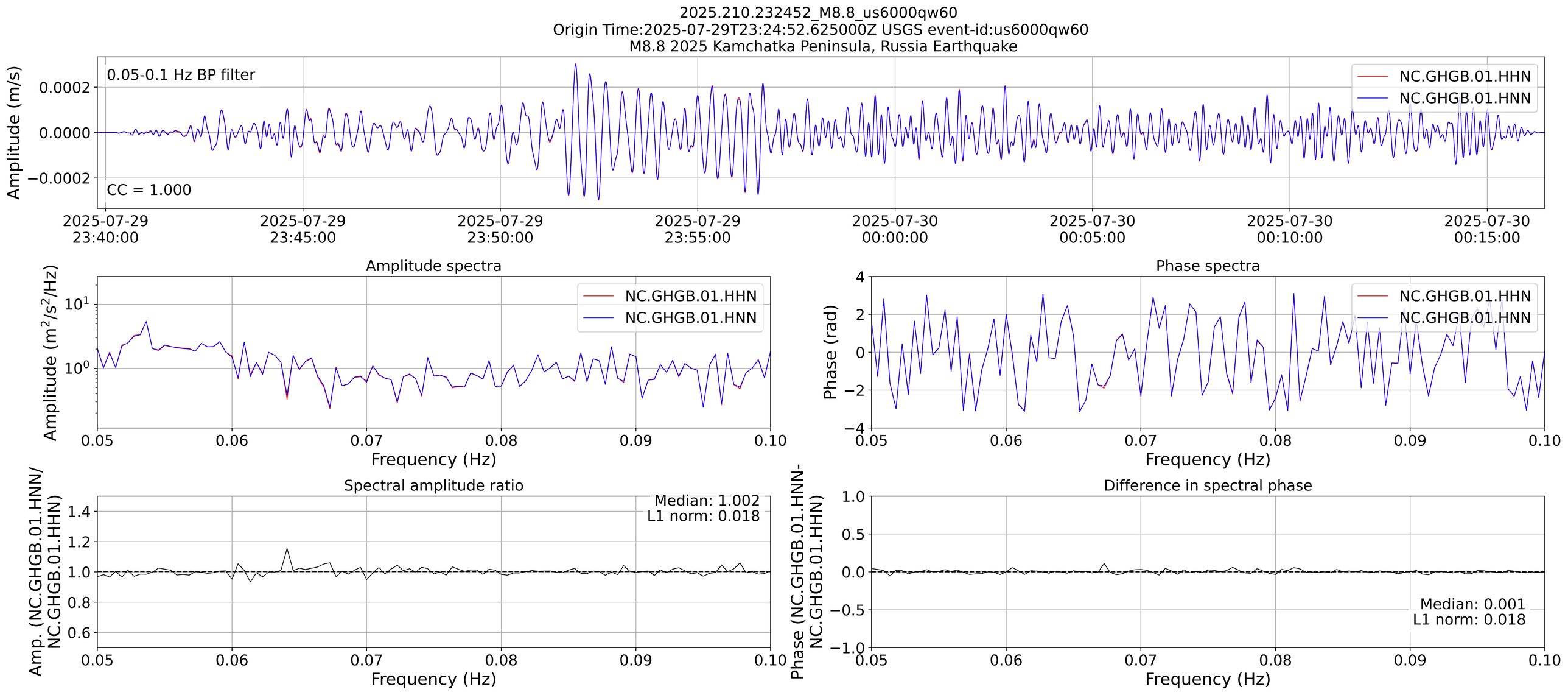

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.983
NC.GBB.01.HHZ
NC.GBB.01.HNZ
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.GBB.01.HNZ/ NC.GBB.01.HHZ)
Median: 1.000
L1 norm: 0.166
Difference in spectral phase
Phase (NC.GBB.01.HNZ-NC.GBB.01.HHZ)
Median: -0.033
L1 norm: 0.196

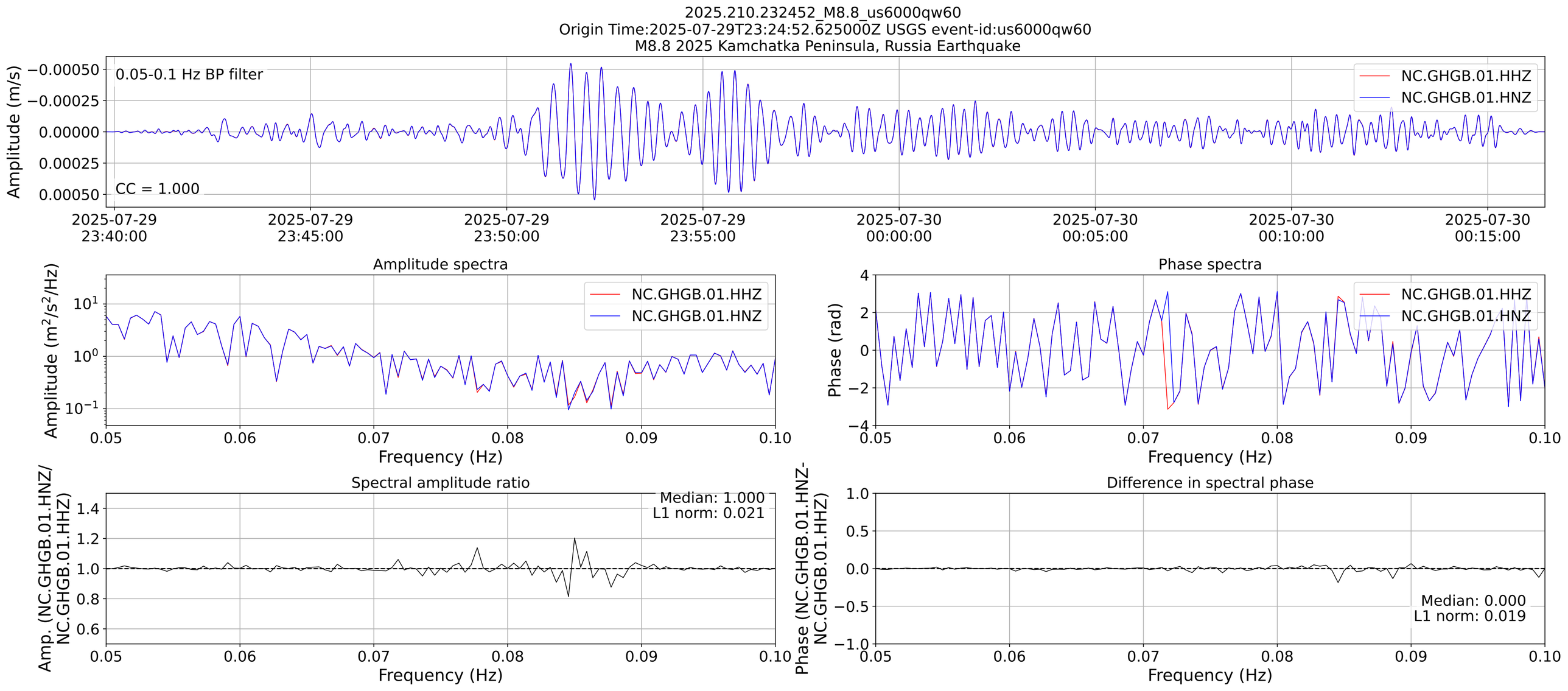

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GDXB..HHE
NC.GDXB..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GDXB..HNE/ NC.GDXB..HHE)
Median: 1.006
L1 norm: 0.024
Difference in spectral phase
Phase (NC.GDXB..HNE- NC.GDXB..HHE)
Median: -0.002
L1 norm: 0.024

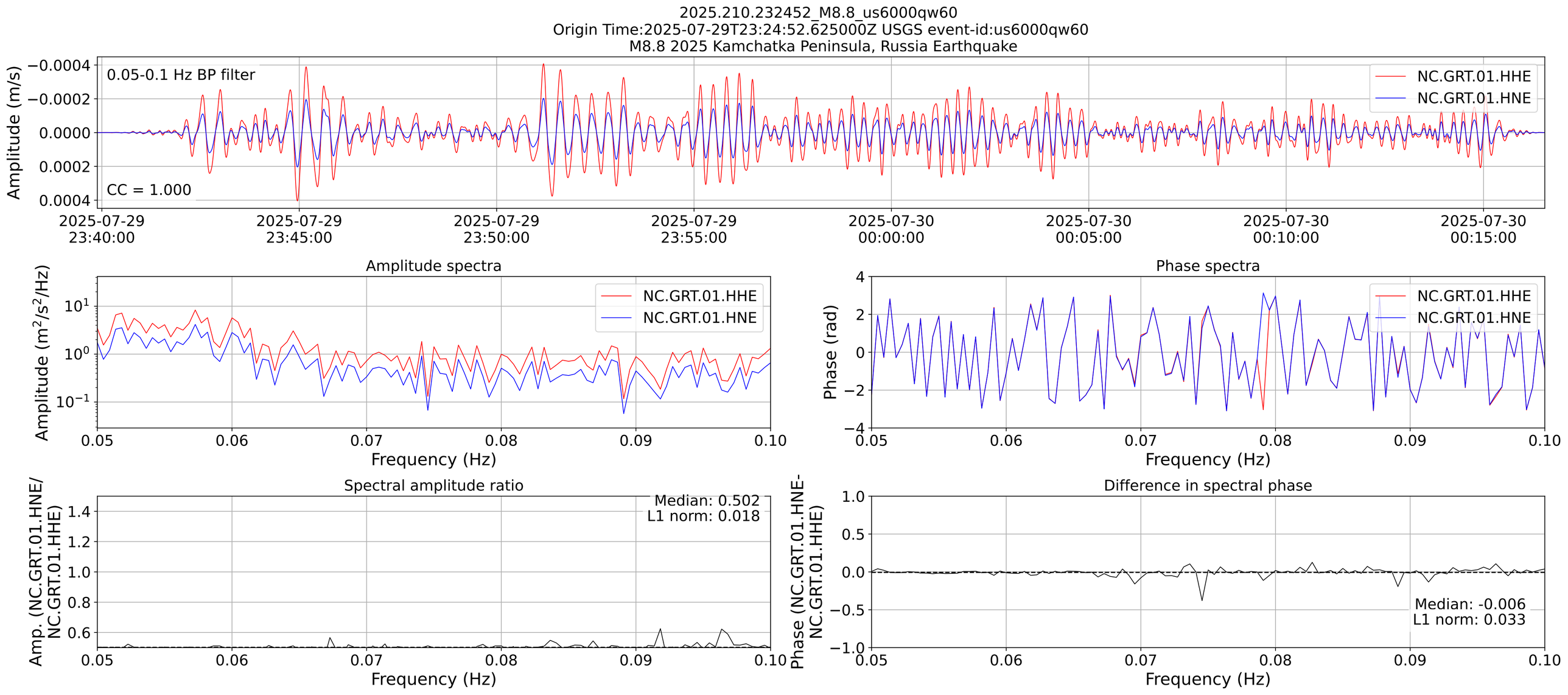

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
NC.GDXB..HHN
NC.GDXB..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GDXB..HNN/ NC.GDXB..HHN)
Median: 1.014
L1 norm: 0.060
Difference in spectral phase
Phase (NC.GDXB..HNN- NC.GDXB..HHN)
Median: 0.002
L1 norm: 0.052

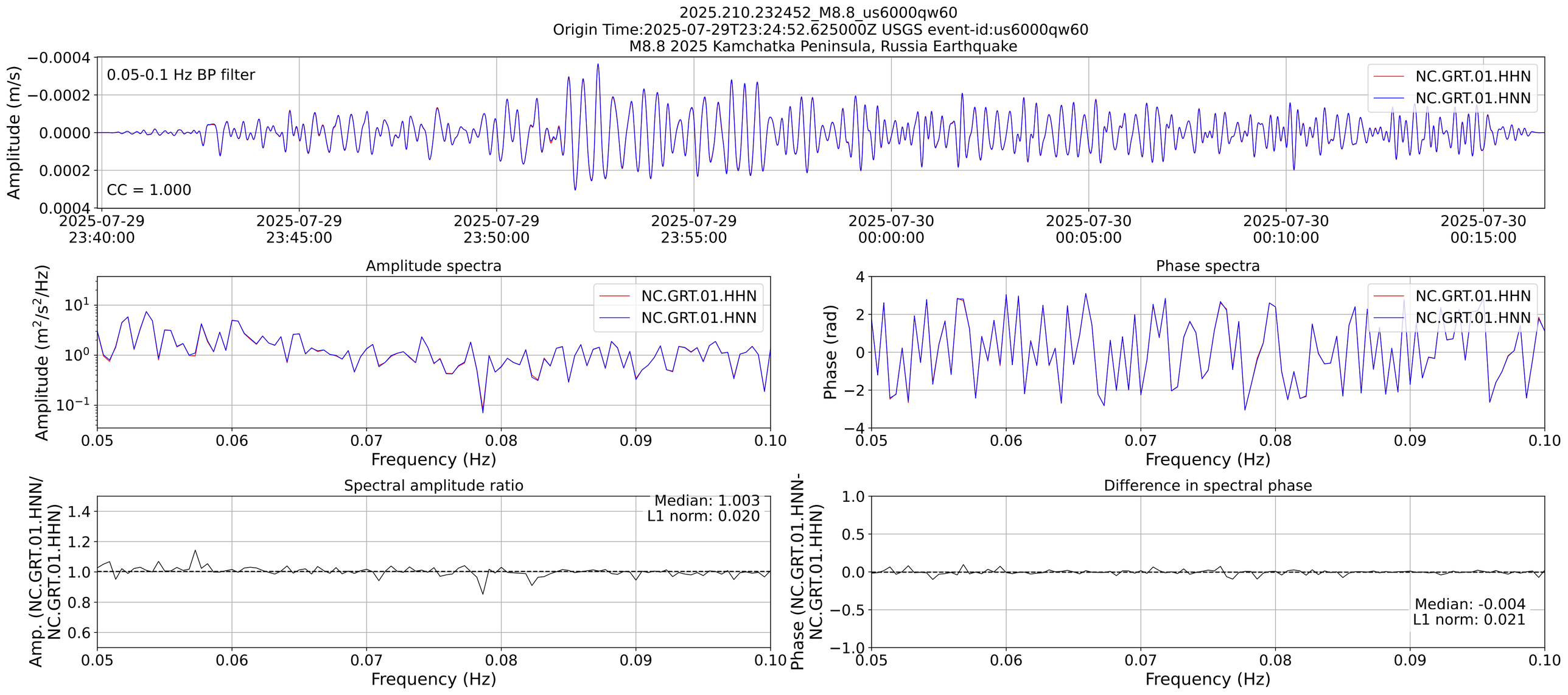

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GDXB..HHZ
NC.GDXB..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GDXB..HNZ/ NC.GDXB..HHZ)
Median: 1.006
L1 norm: 0.017
Difference in spectral phase
Phase (NC.GDXB..HNZ- NC.GDXB..HHZ)
Median: -0.001
L1 norm: 0.019

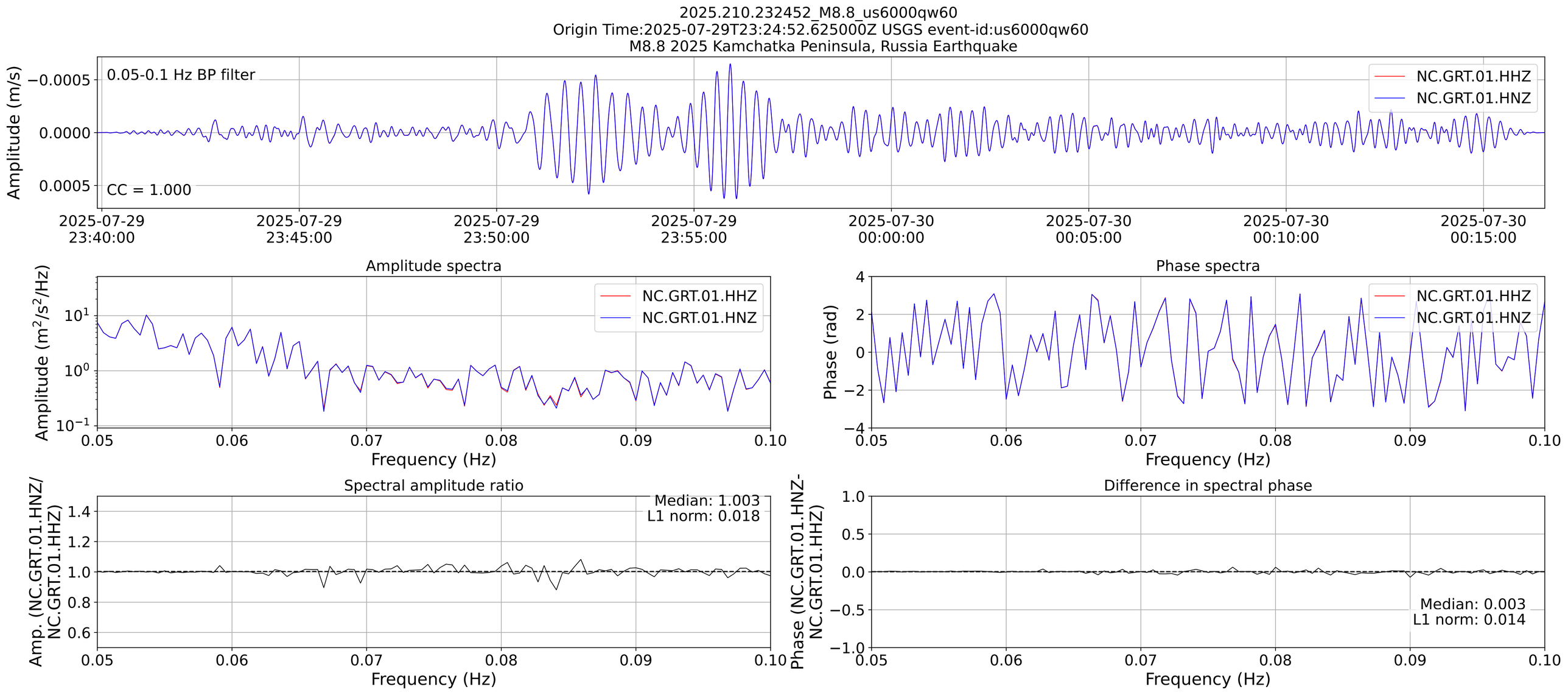

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GHGB.01.HHE
NC.GHGB.01.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GHGB.01.HNE/ NC.GHGB.01.HHE)
Median: 1.005
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GHGB.01.HNE- NC.GHGB.01.HHE)
Median: -0.003
L1 norm: 0.017

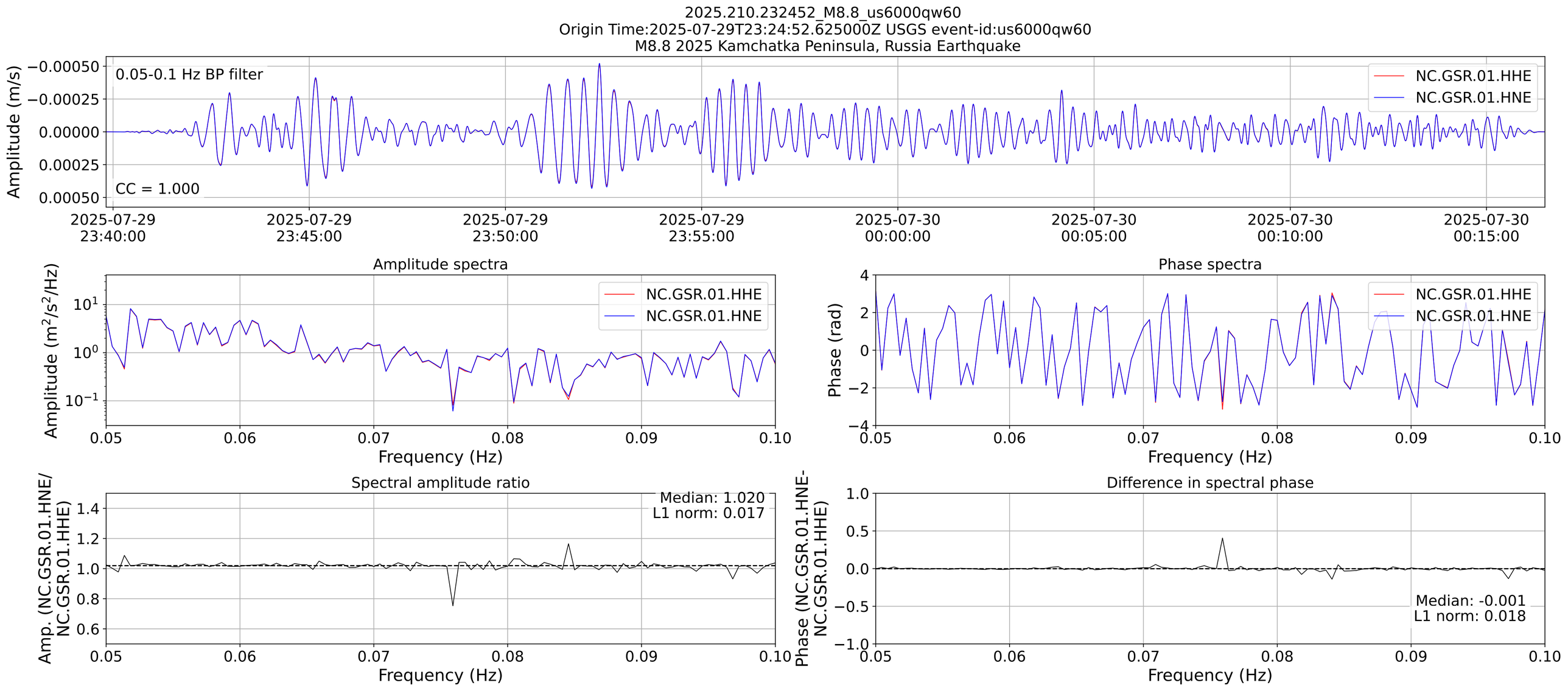

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GHGB.01.HHN
NC.GHGB.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GHGB.01.HNN/ NC.GHGB.01.HHN)
Median: 1.002
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GHGB.01.HNN- NC.GHGB.01.HHN)
Median: 0.001
L1 norm: 0.018

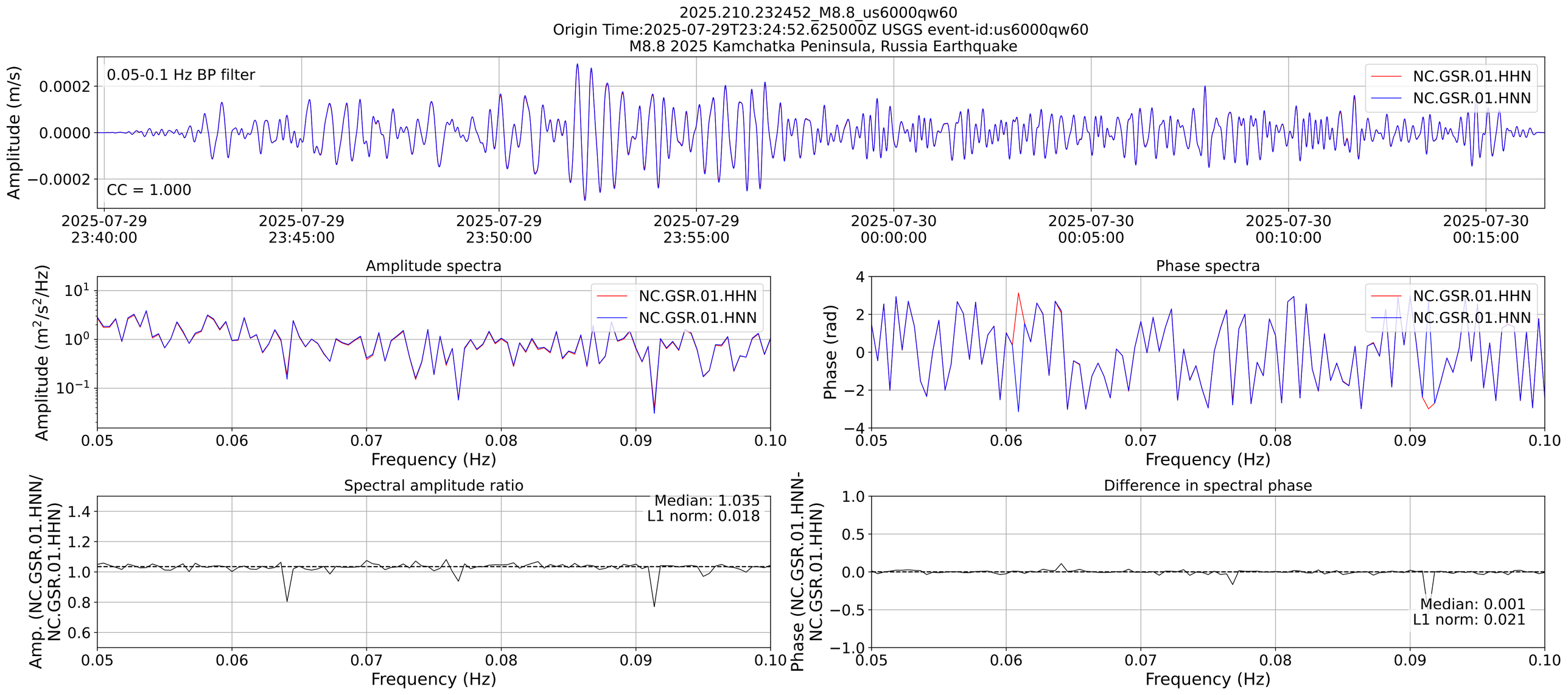

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GHGB.01.HHZ
NC.GHGB.01.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GHGB.01.HNZ/ NC.GHGB.01.HHZ)
Median: 1.000
L1 norm: 0.021
Difference in spectral phase
Phase (NC.GHGB.01.HNZ- NC.GHGB.01.HHZ)
Median: 0.000
L1 norm: 0.019

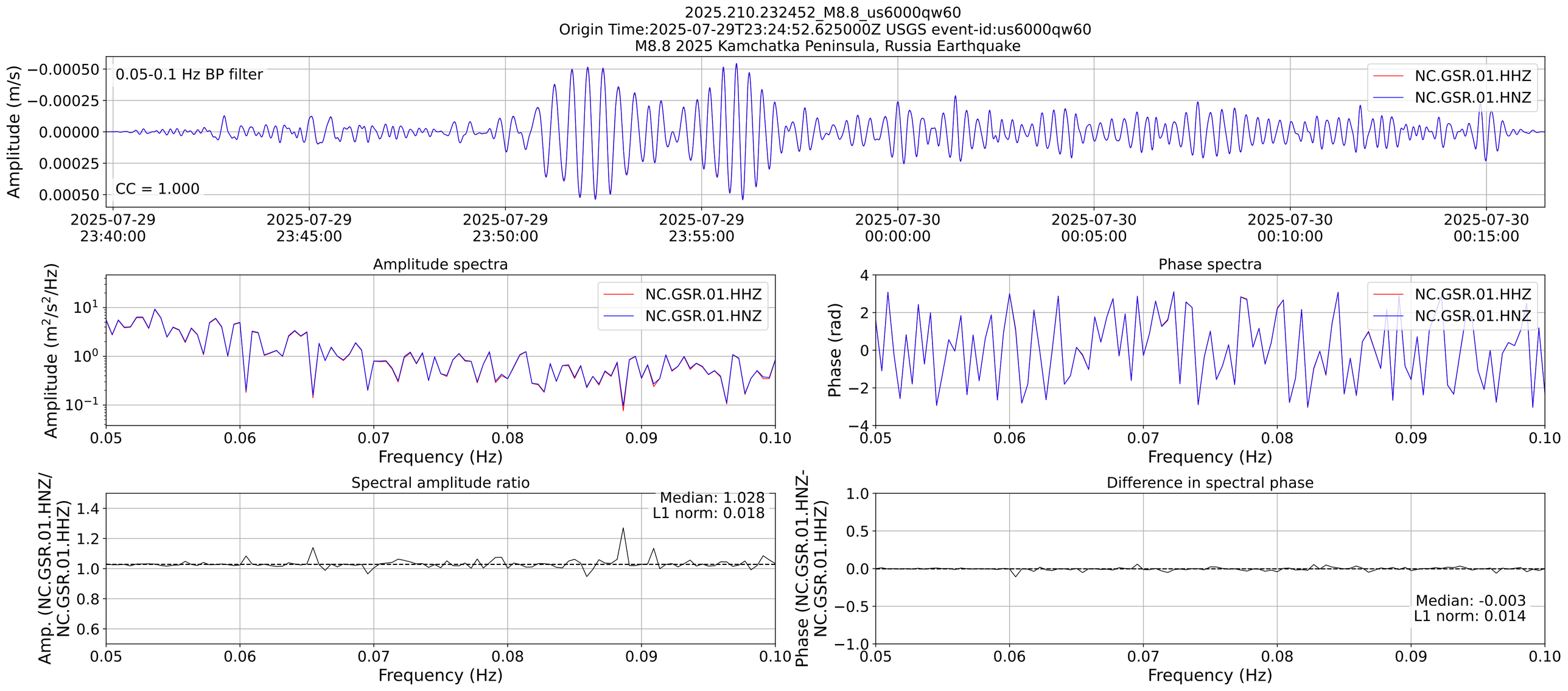

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GRT.01.HHE
NC.GRT.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.GRT.01.HNE/ NC.GRT.01.HHE)
Median: 0.502
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GRT.01.HNE- NC.GRT.01.HHE)
Median: -0.006
L1 norm: 0.033

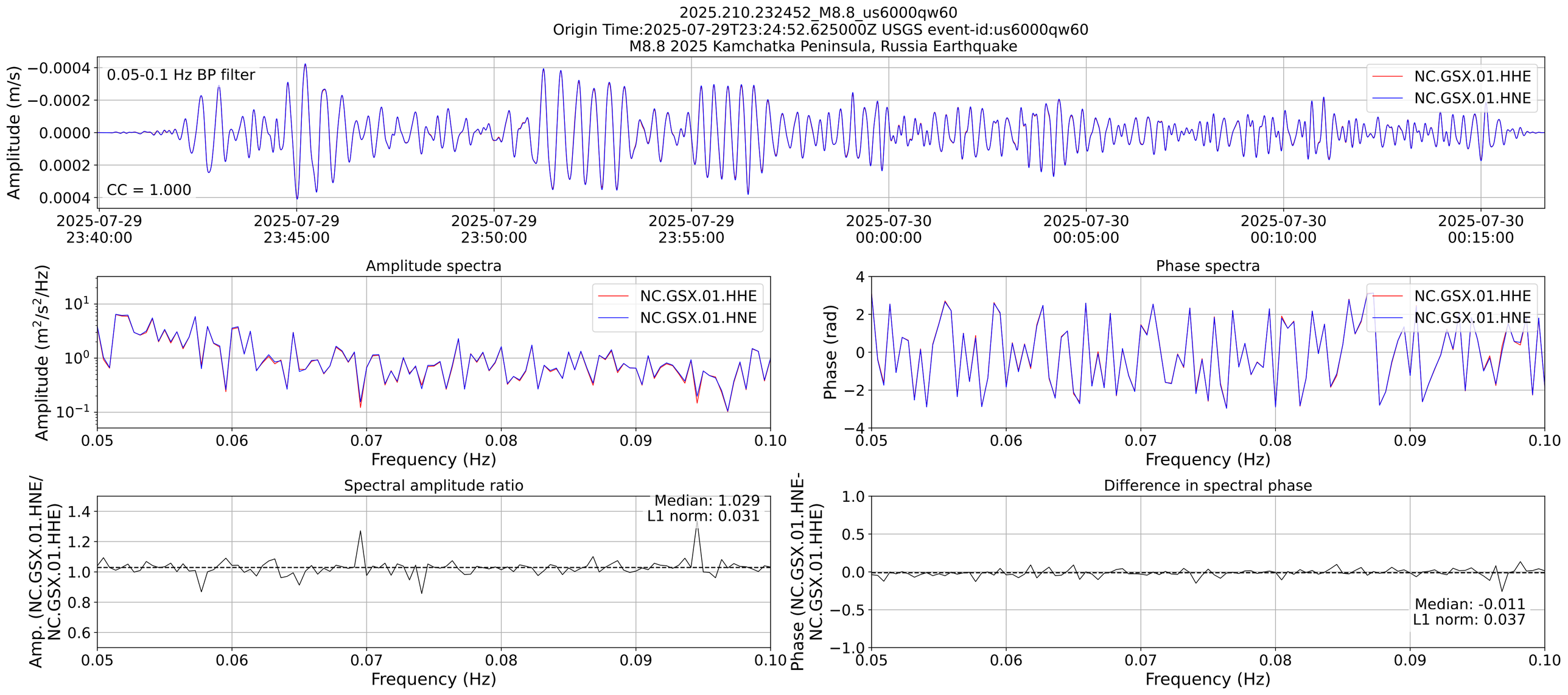

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GRT.01.HHN
NC.GRT.01.HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.GRT.01.HNN/ NC.GRT.01.HHN)
Median: 1.003
L1 norm: 0.020
Difference in spectral phase
Phase (NC.GRT.01.HNN- NC.GRT.01.HHN)
Median: -0.004
L1 norm: 0.021

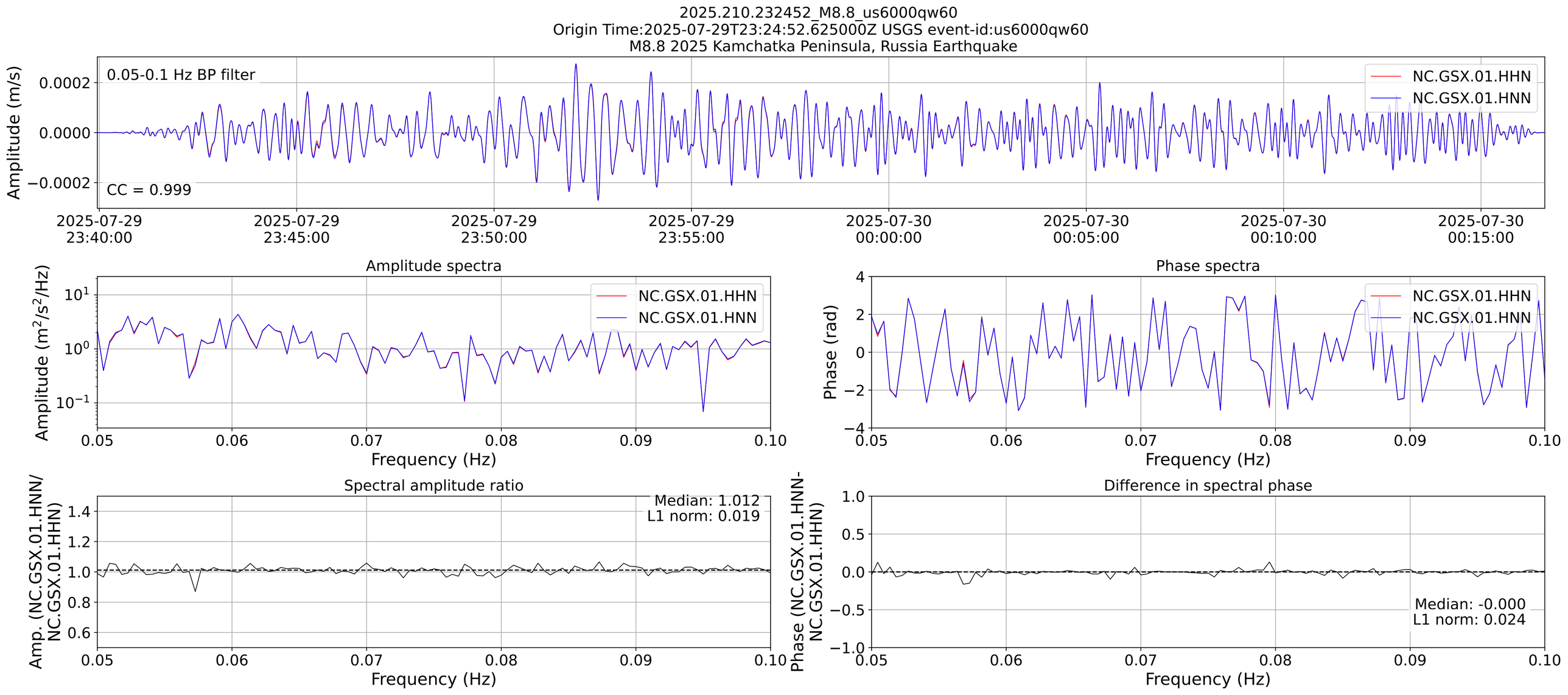

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GRT.01.HHZ
NC.GRT.01.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GRT.01.HNZ/ NC.GRT.01.HHZ)
Median: 1.003
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GRT.01.HNZ- NC.GRT.01.HHZ)
Median: 0.003
L1 norm: 0.014

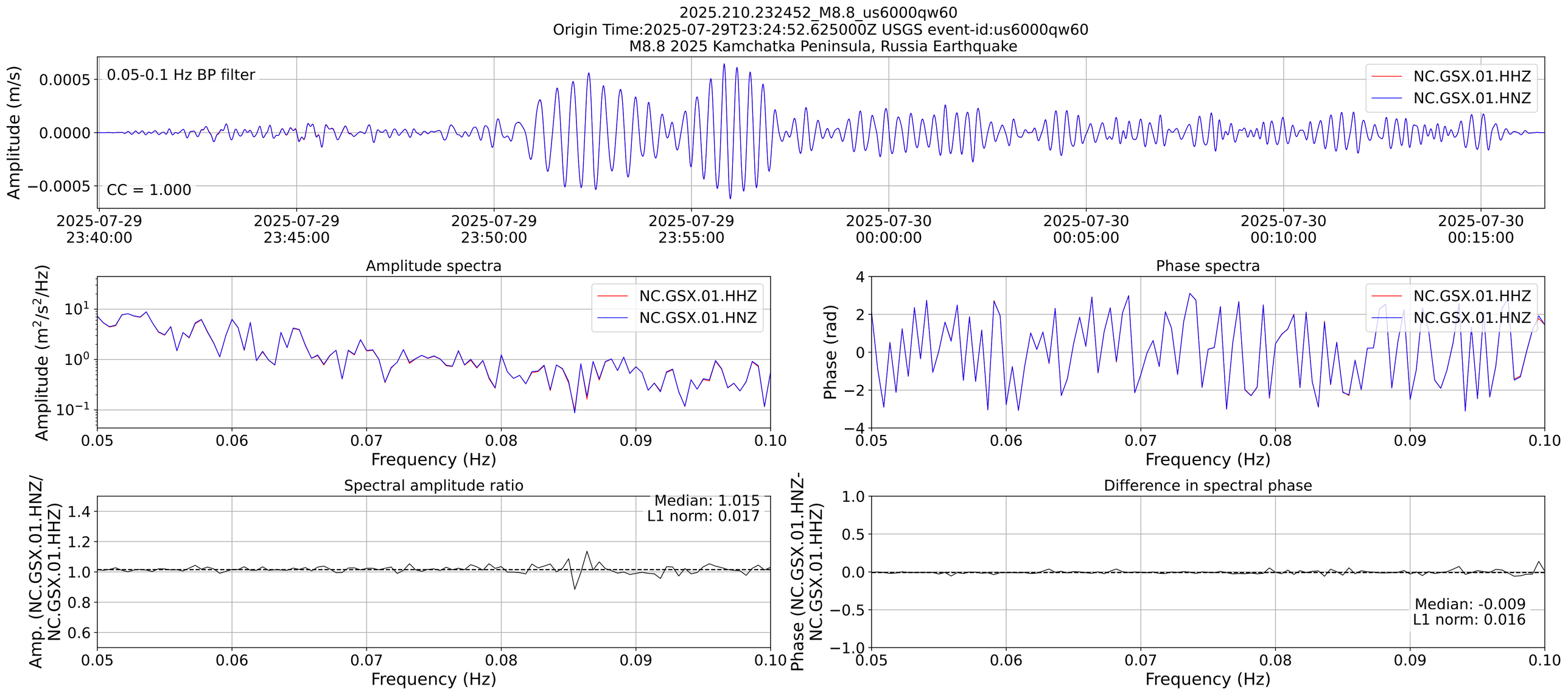

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GSR.01.HHE
NC.GSR.01.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GSR.01.HNE/ NC.GSR.01.HHE)
Median: 1.020
L1 norm: 0.017
Difference in spectral phase
Phase (NC.GSR.01.HNE- NC.GSR.01.HHE)
Median: -0.001
L1 norm: 0.018

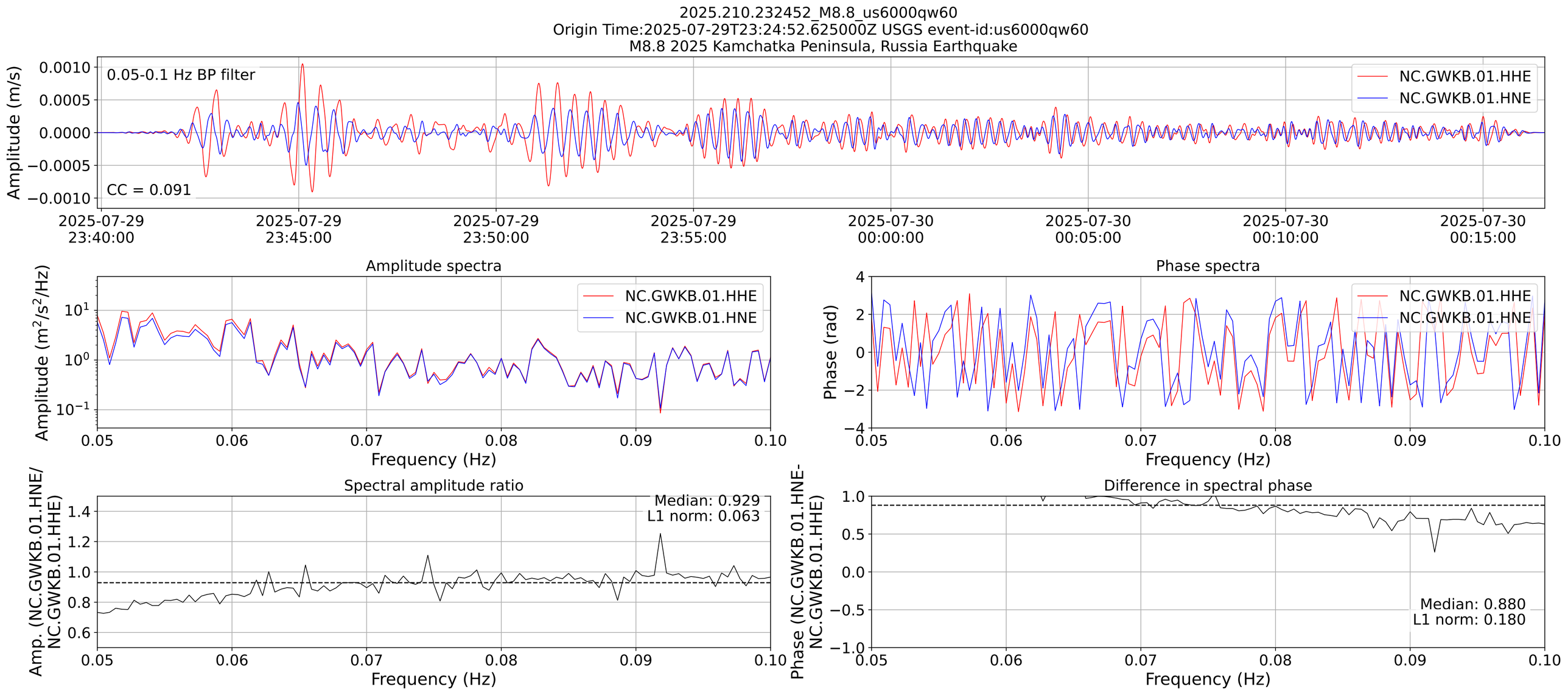

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GSR.01.HHN
NC.GSR.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GSR.01.HNN/ NC.GSR.01.HHN)
Median: 1.035
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GSR.01.HNN-NC.GSR.01.HHN)
Median: 0.001
L1 norm: 0.021

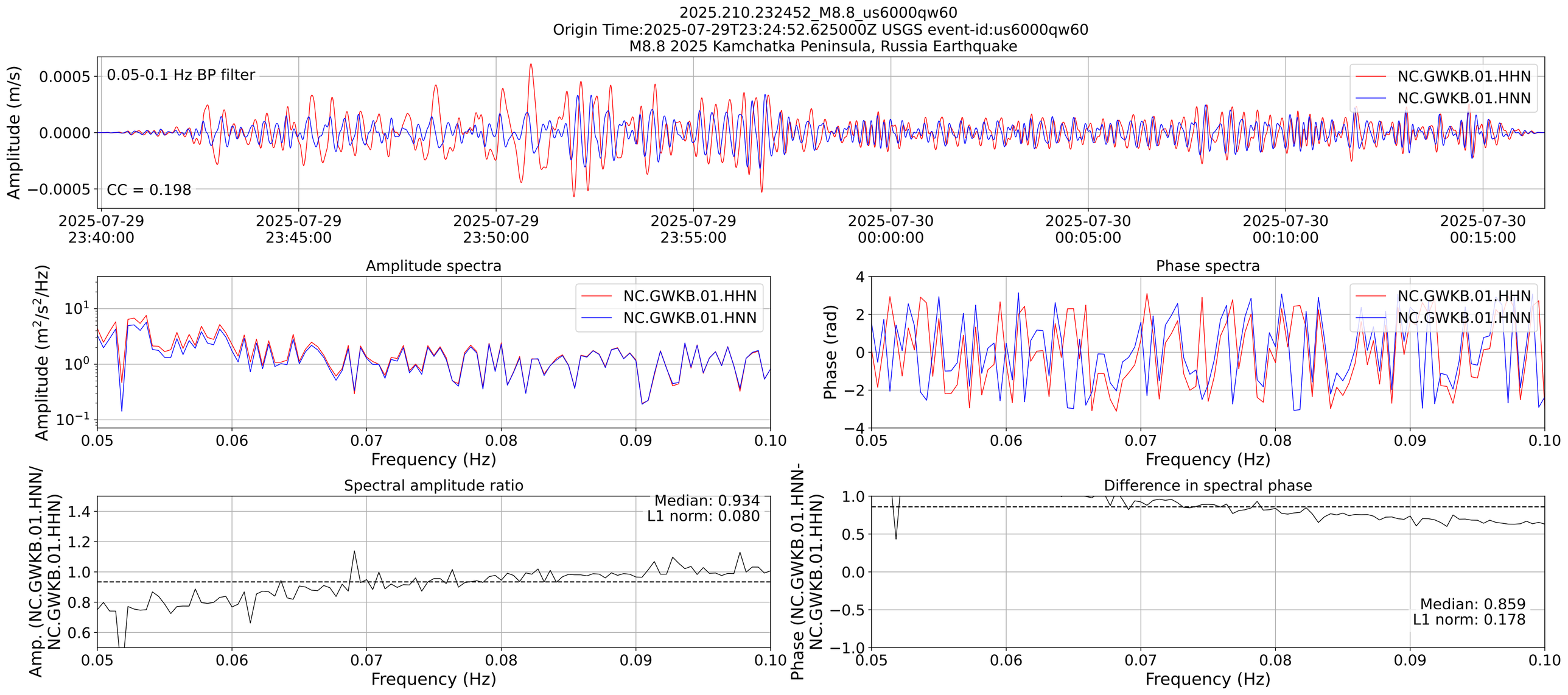

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GSR.01.HHZ
NC.GSR.01.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.GSR.01.HNZ/ NC.GSR.01.HHZ)
Median: 1.028
L1 norm: 0.018
Difference in spectral phase
Phase (NC.GSR.01.HNZ- NC.GSR.01.HHZ)
Median: -0.003
L1 norm: 0.014

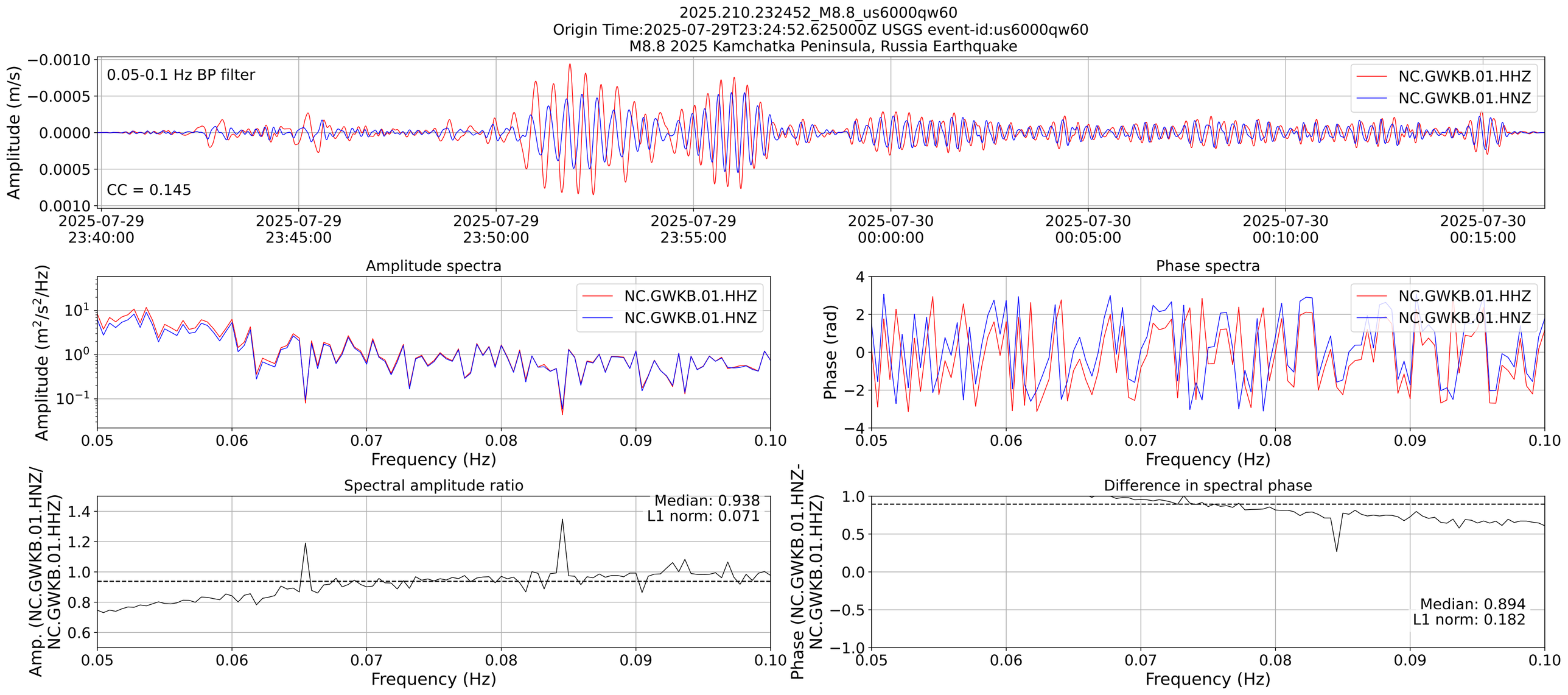

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GSX.01.HHE
NC.GSX.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.GSX.01.HNE/ NC.GSX.01.HHE)
Median: 1.029
L1 norm: 0.031
Difference in spectral phase
Phase (NC.GSX.01.HNE- NC.GSX.01.HHE)
Median: -0.011
L1 norm: 0.037

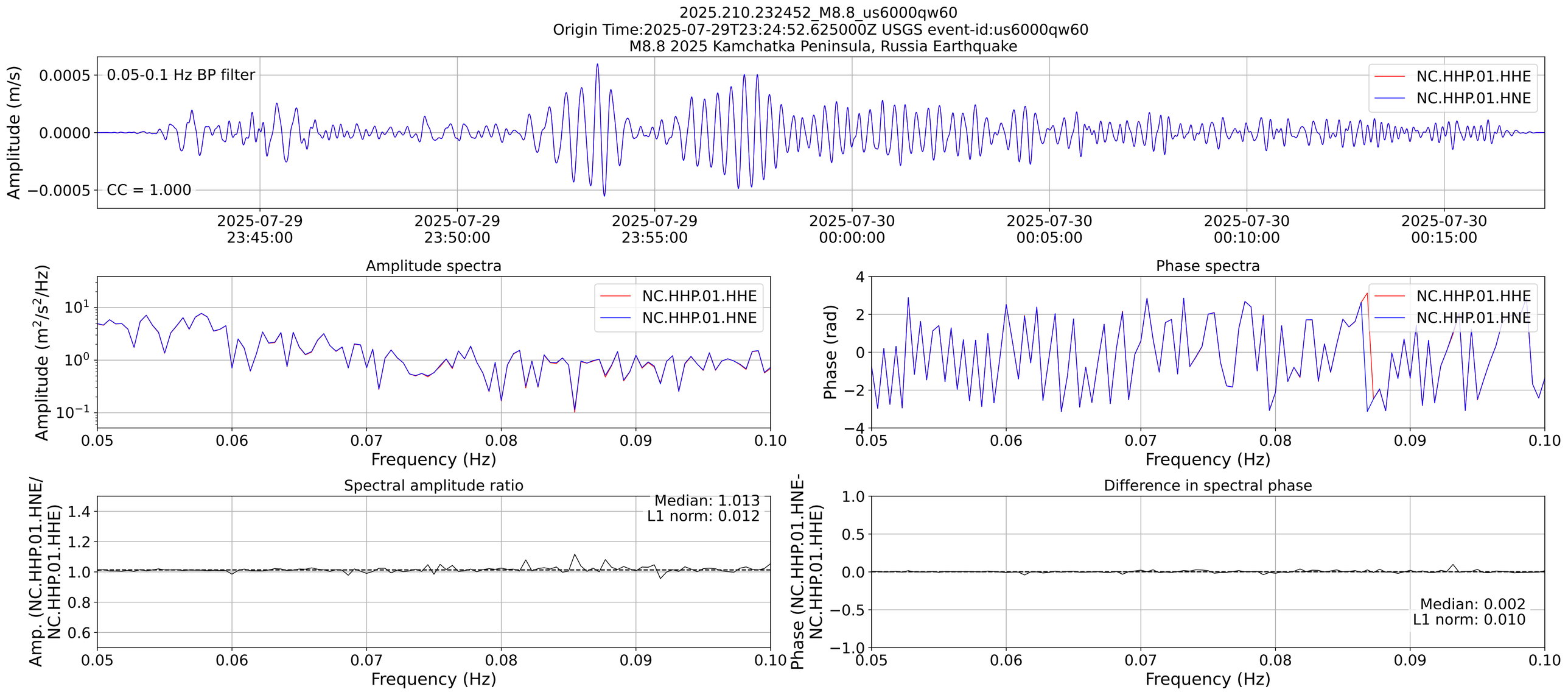

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.GSX.01.HHN
NC.GSX.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GSX.01.HNN/ NC.GSX.01.HHN)
Median: 1.012
L1 norm: 0.019
Difference in spectral phase
Phase (NC.GSX.01.HNN-NC.GSX.01.HHN)
Median: -0.000
L1 norm: 0.024

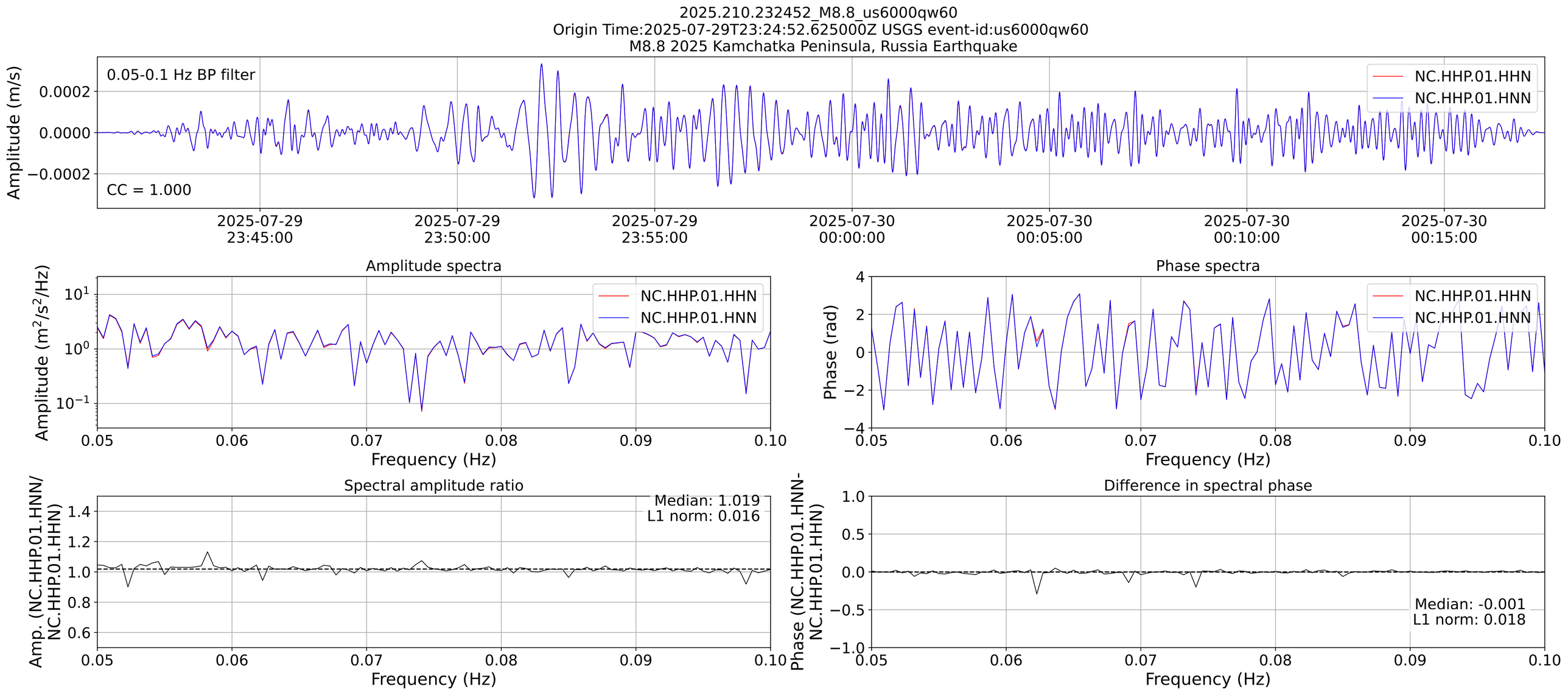

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.GSX.01.HHZ
NC.GSX.01.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GSX.01.HNZ/ NC.GSX.01.HHZ)
Median: 1.015
L1 norm: 0.017
Difference in spectral phase
Phase (NC.GSX.01.HNZ-NC.GSX.01.HHZ)
Median: -0.009
L1 norm: 0.016

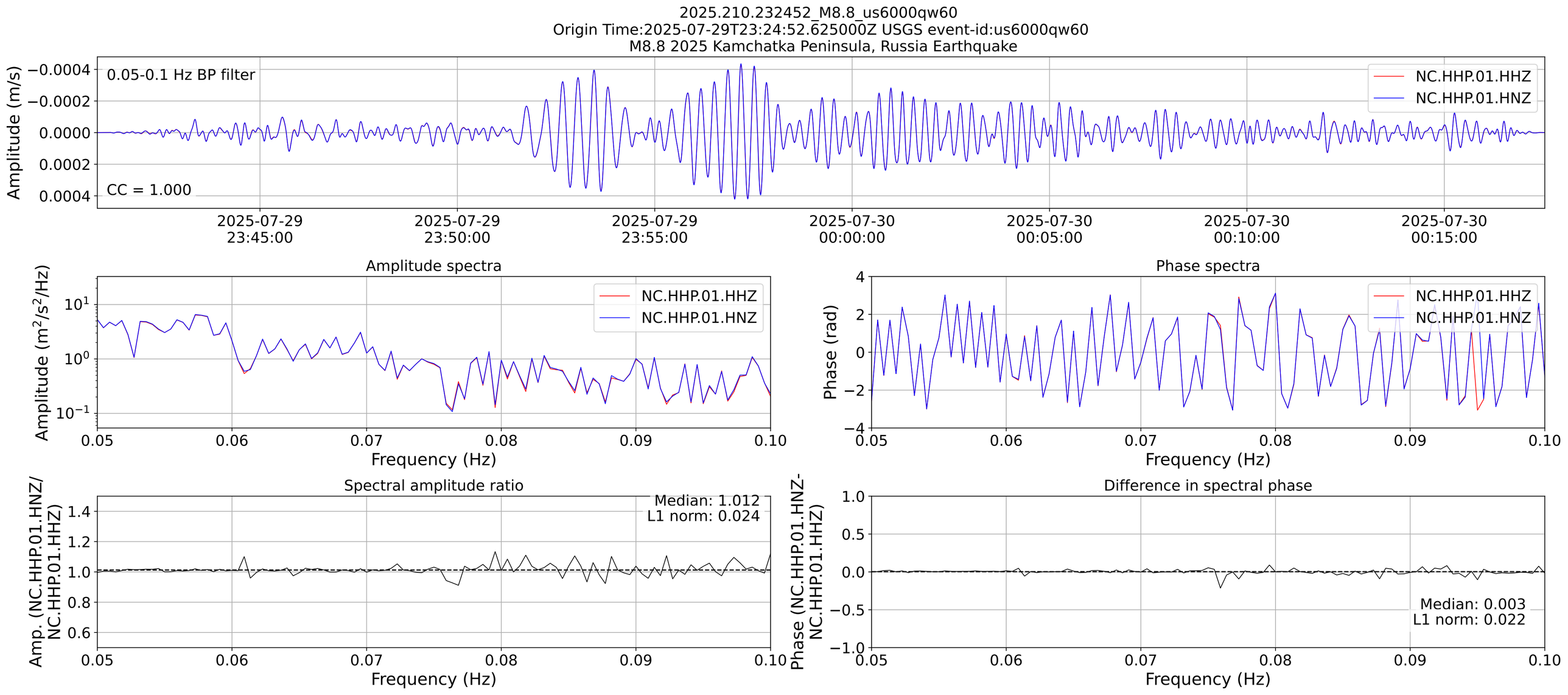

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.091
NC.GWKB.01.HHE
NC.GWKB.01.HNE
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.GWKB.01.HNE/ NC.GWKB.01.HHE)
Median: 0.929
L1 norm: 0.063
Difference in spectral phase
Phase (NC.GWKB.01.HNE- NC.GWKB.01.HHE)
Median: 0.880
L1 norm: 0.180

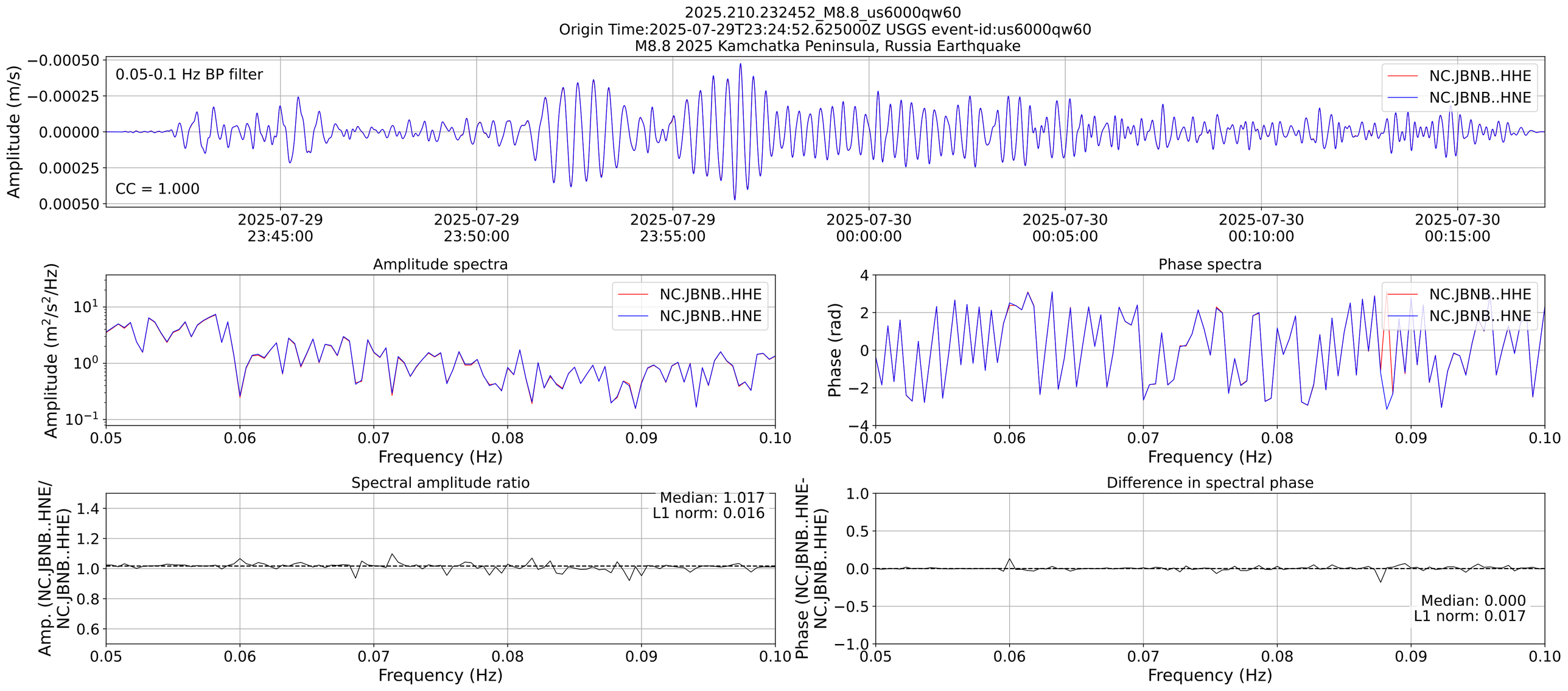

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.198
NC.GWKB.01.HHN
NC.GWKB.01.HNN
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.GWKB.01.HNN/ NC.GWKB.01.HHN)
Median: 0.934
L1 norm: 0.080
Difference in spectral phase
Phase (NC.GWKB.01.HNN- NC.GWKB.01.HHN)
Median: 0.859
L1 norm: 0.178

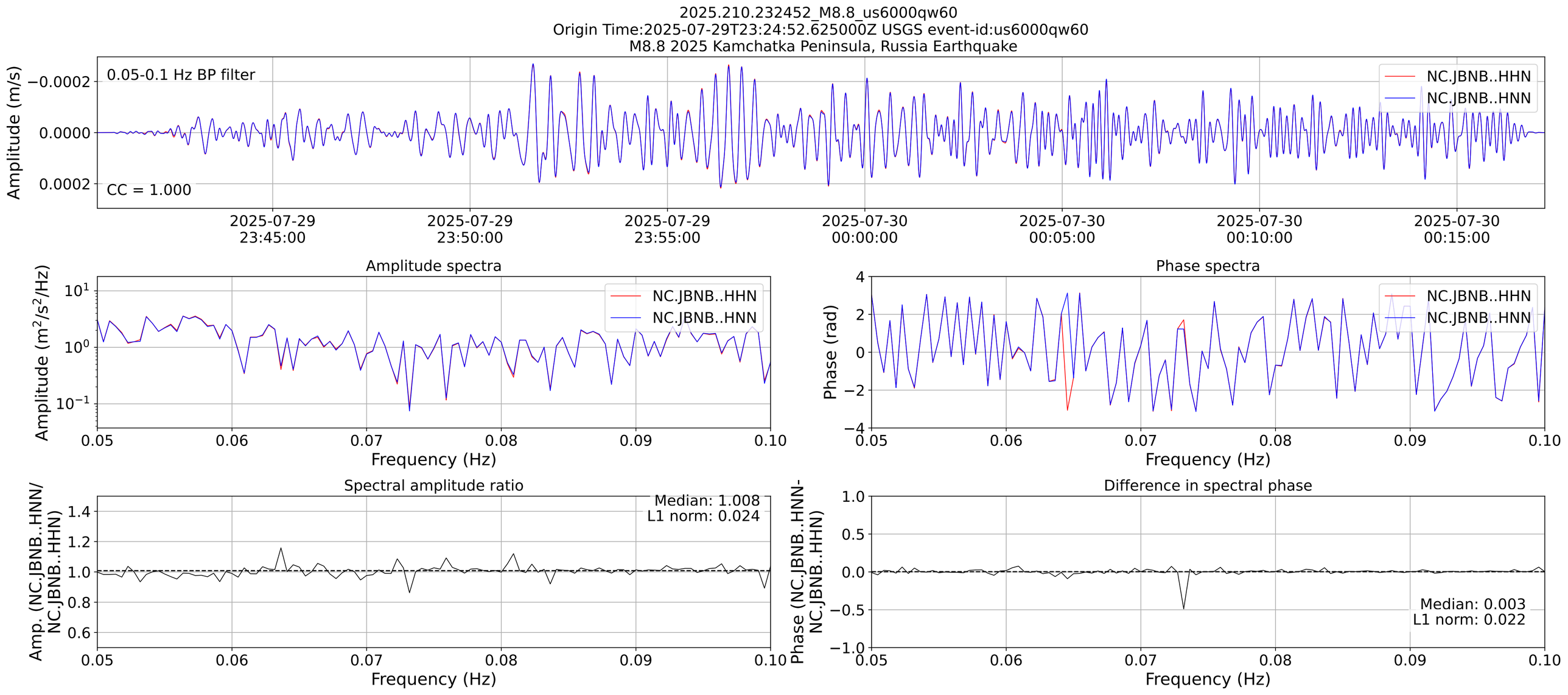

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.145
NC.GWKB.01.HHZ
NC.GWKB.01.HNZ
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.GWKB.01.HNZ/ NC.GWKB.01.HHZ)
Median: 0.938
L1 norm: 0.071
Difference in spectral phase
Phase (NC.GWKB.01.HNZ- NC.GWKB.01.HHZ)
Median: 0.894
L1 norm: 0.182

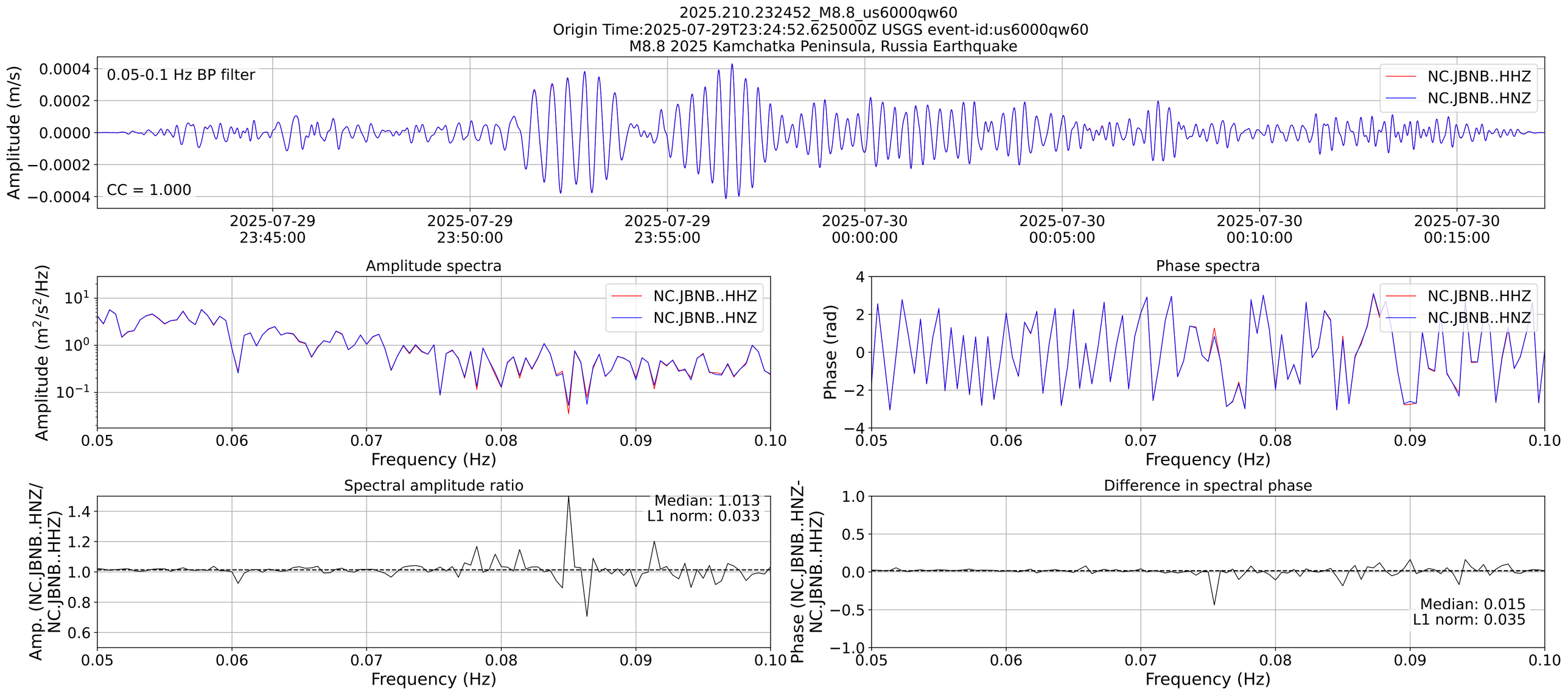

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.HHP.01.HHE
NC.HHP.01.HNE
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.HHP.01.HNE/ NC.HHP.01.HHE)
Median: 1.013
L1 norm: 0.012
Difference in spectral phase
Phase (NC.HHP.01.HNE- NC.HHP.01.HHE)
Median: 0.002
L1 norm: 0.010

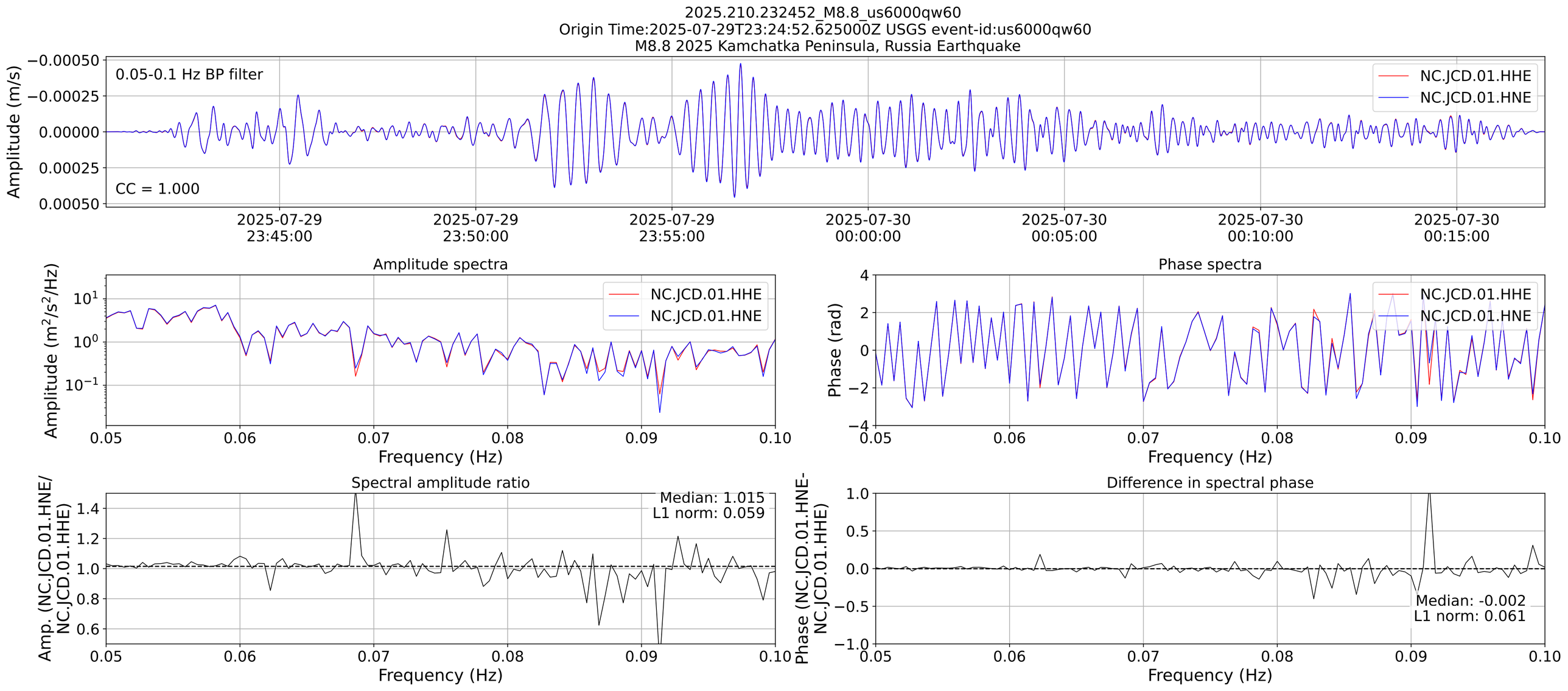

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.HHP.01.HHN
NC.HHP.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.HHP.01.HNN/ NC.HHP.01.HHN)
Median: 1.019
L1 norm: 0.016
Difference in spectral phase
Phase (NC.HHP.01.HNN-NC.HHP.01.HHN)
Median: -0.001
L1 norm: 0.018

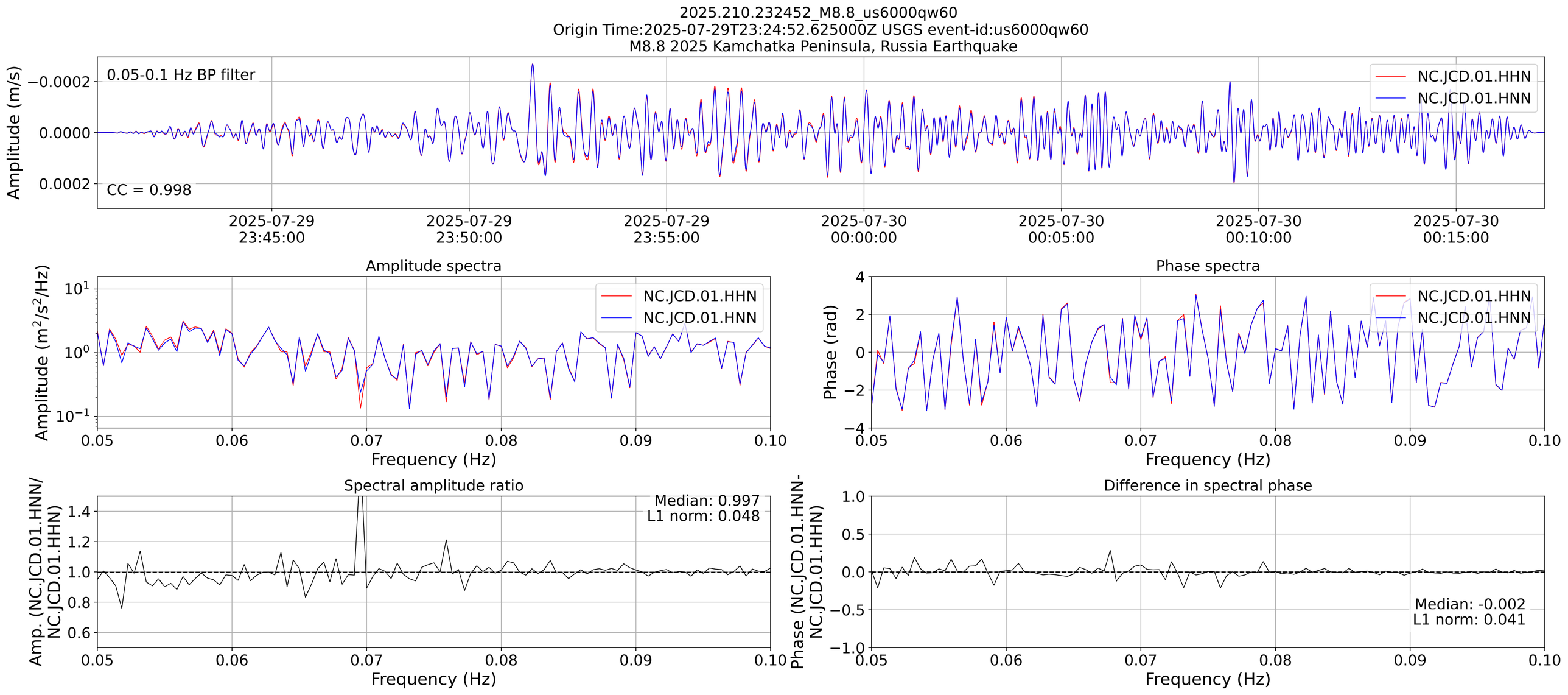

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.HHP.01.HHZ
NC.HHP.01.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.HHP.01.HNZ/ NC.HHP.01.HHZ)
Median: 1.012
L1 norm: 0.024
Difference in spectral phase
Phase (NC.HHP.01.HNZ- NC.HHP.01.HHZ)
Median: 0.003
L1 norm: 0.022

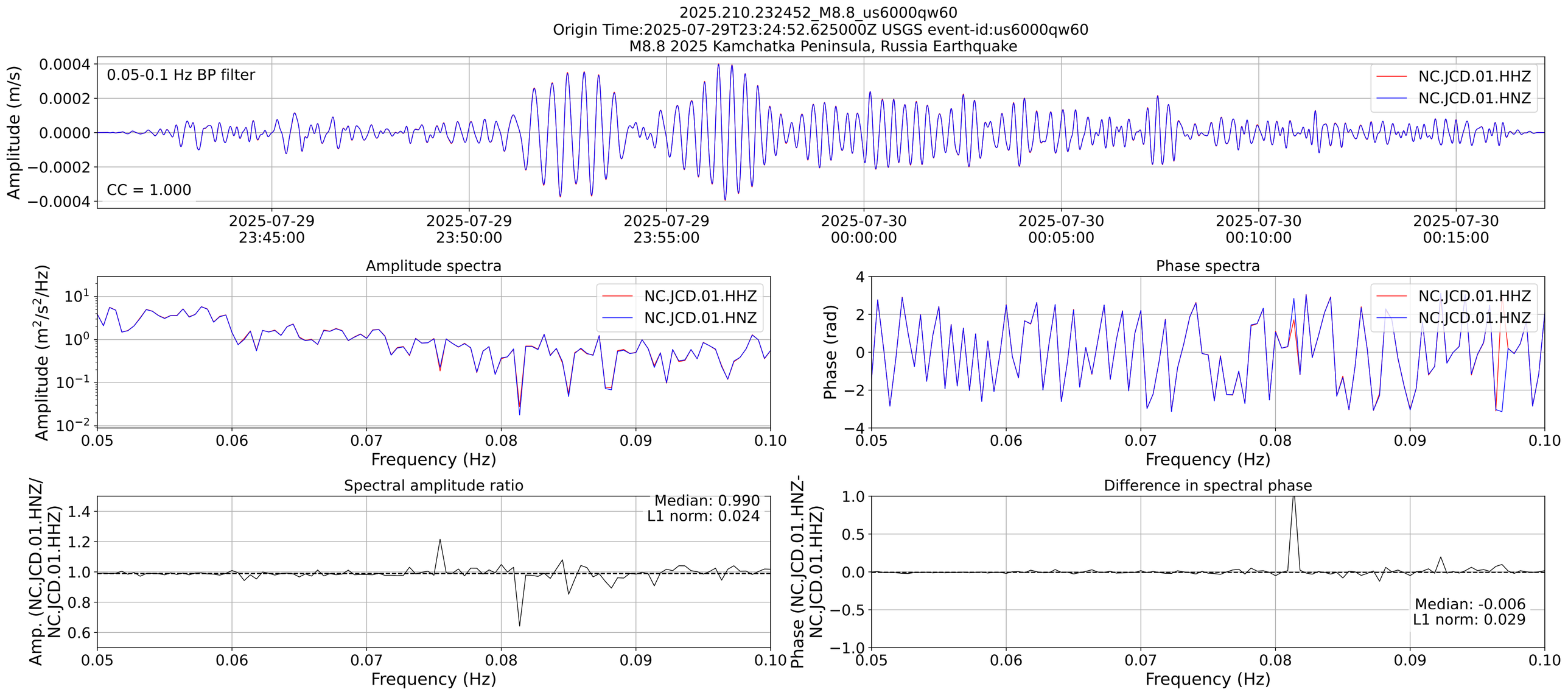

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JBNB..HHE
NC.JBNB..HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.JBNB..HNE/ NC.JBNB..HHE)
Median: 1.017
L1 norm: 0.016
Difference in spectral phase
Phase (NC.JBNB..HNE- NC.JBNB..HHE)
Median: 0.000
L1 norm: 0.017

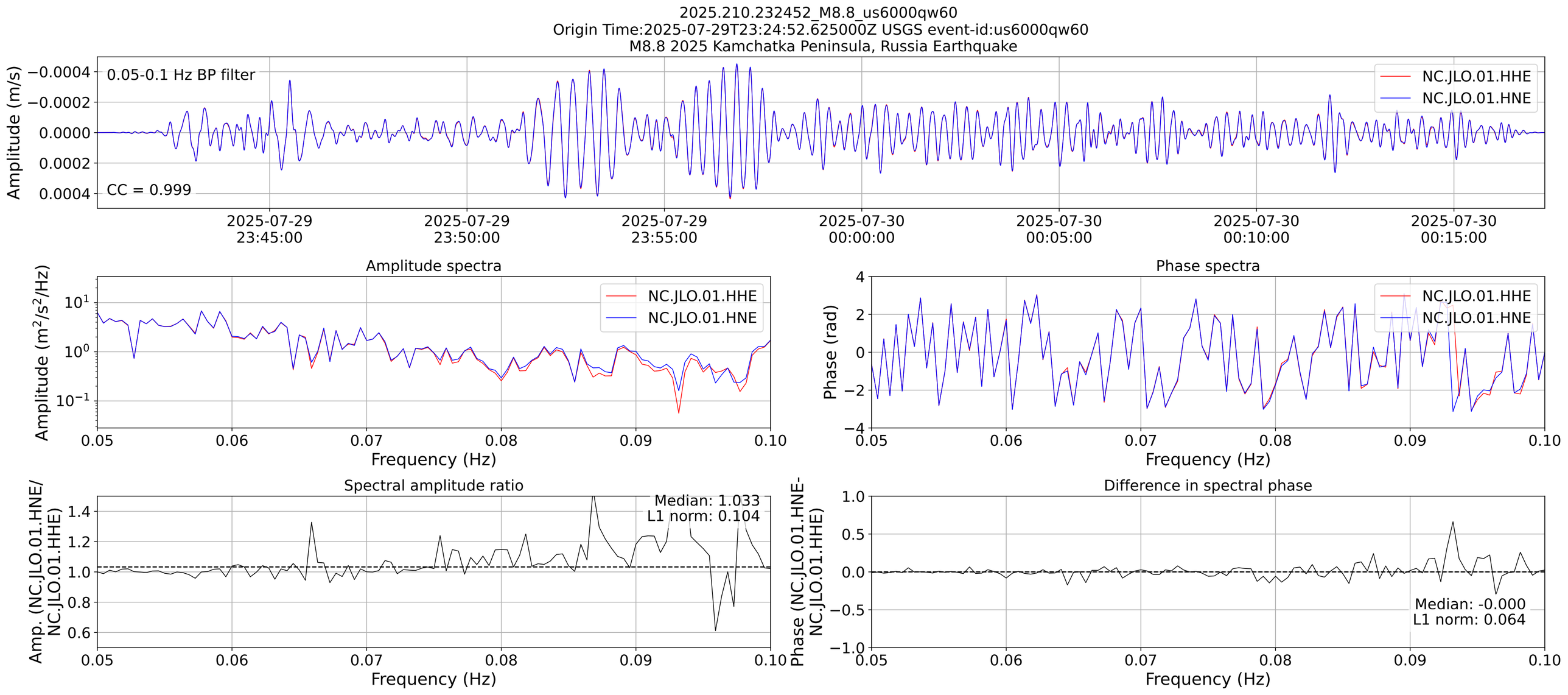

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JBNB..HHN
NC.JBNB..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.JBNB..HNN/ NC.JBNB..HHN)
Median: 1.008
L1 norm: 0.024
Difference in spectral phase
Phase (NC.JBNB..HNN- NC.JBNB..HHN)
Median: 0.003
L1 norm: 0.022

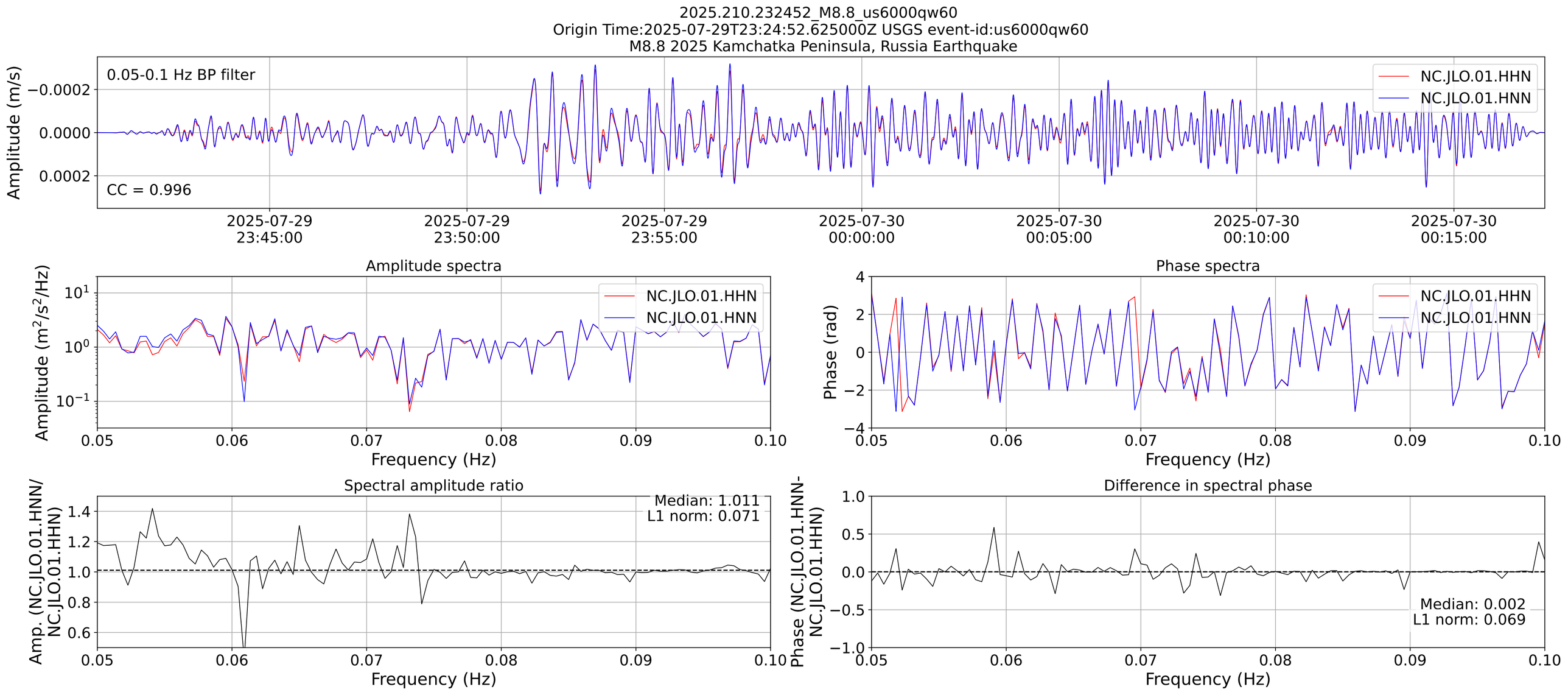

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JBNB..HHZ
NC.JBNB..HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.JBNB..HNZ/ NC.JBNB..HHZ)
Median: 1.013
L1 norm: 0.033
Difference in spectral phase
Phase (NC.JBNB..HNZ- NC.JBNB..HHZ)
Median: 0.015
L1 norm: 0.035

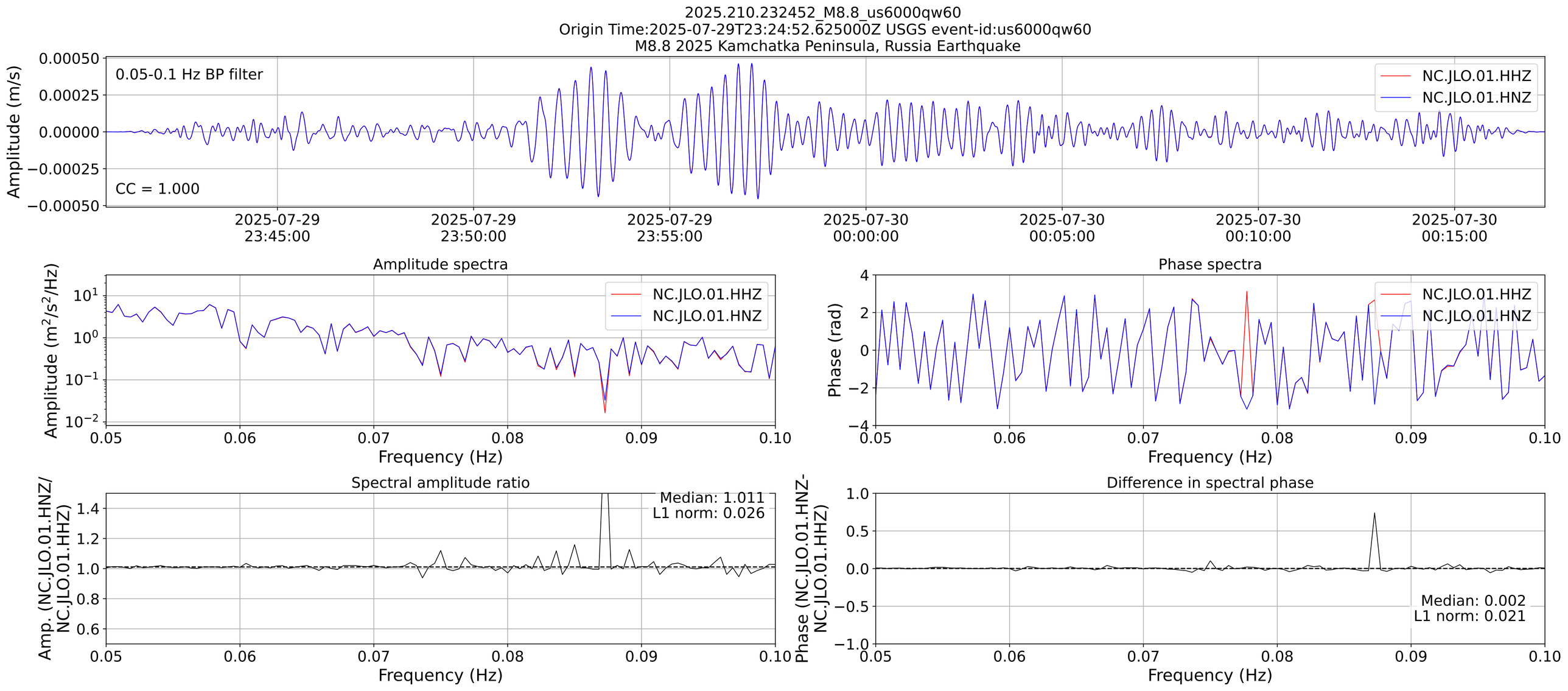

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JCD.01.HHE
NC.JCD.01.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.JCD.01.HNE/ NC.JCD.01.HHE)
Median: 1.015
L1 norm: 0.059
Difference in spectral phase
Phase (NC.JCD.01.HNE- NC.JCD.01.HHE)
Median: -0.002
L1 norm: 0.061

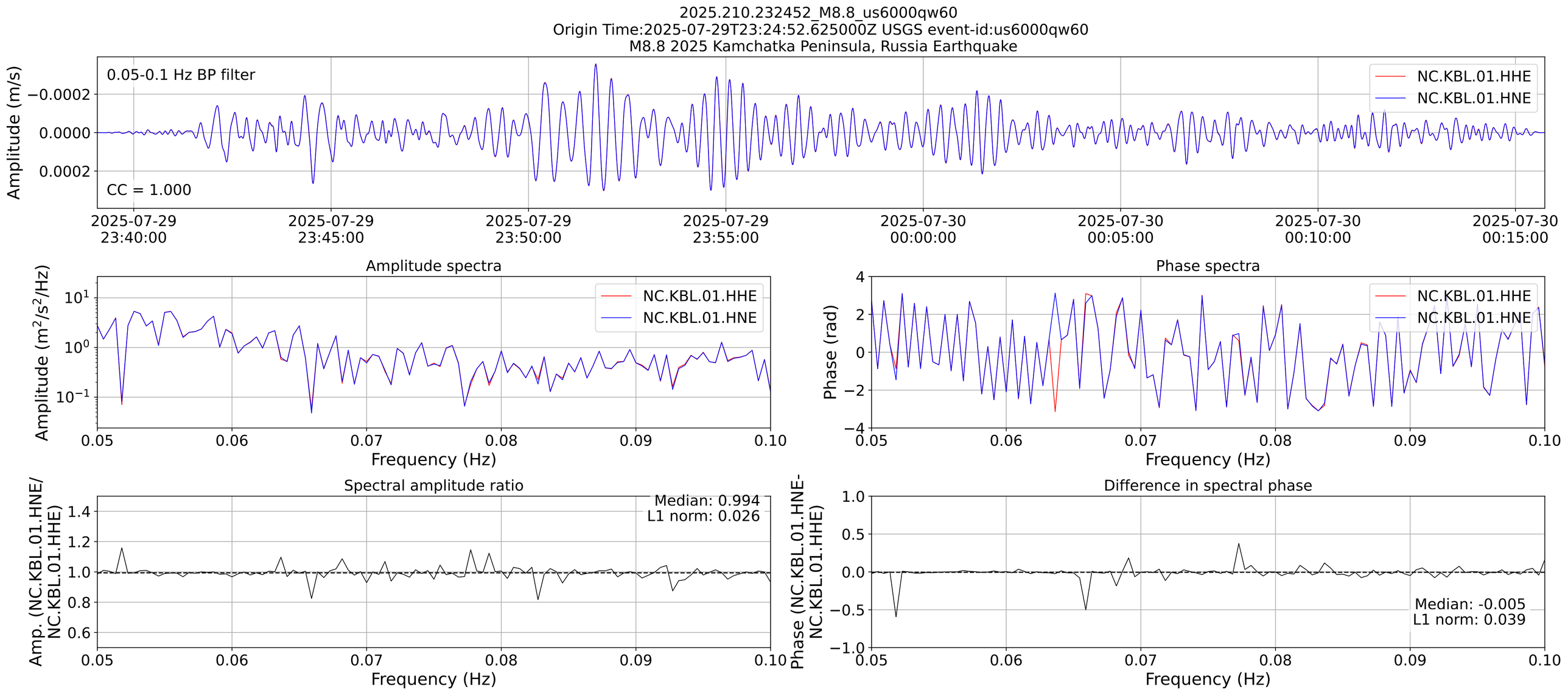

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
NC.JCD.01.HHN
NC.JCD.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.JCD.01.HNN/ NC.JCD.01.HHN)
Median: 0.997
L1 norm: 0.048
Difference in spectral phase
Phase (NC.JCD.01.HNN- NC.JCD.01.HHN)
Median: -0.002
L1 norm: 0.041

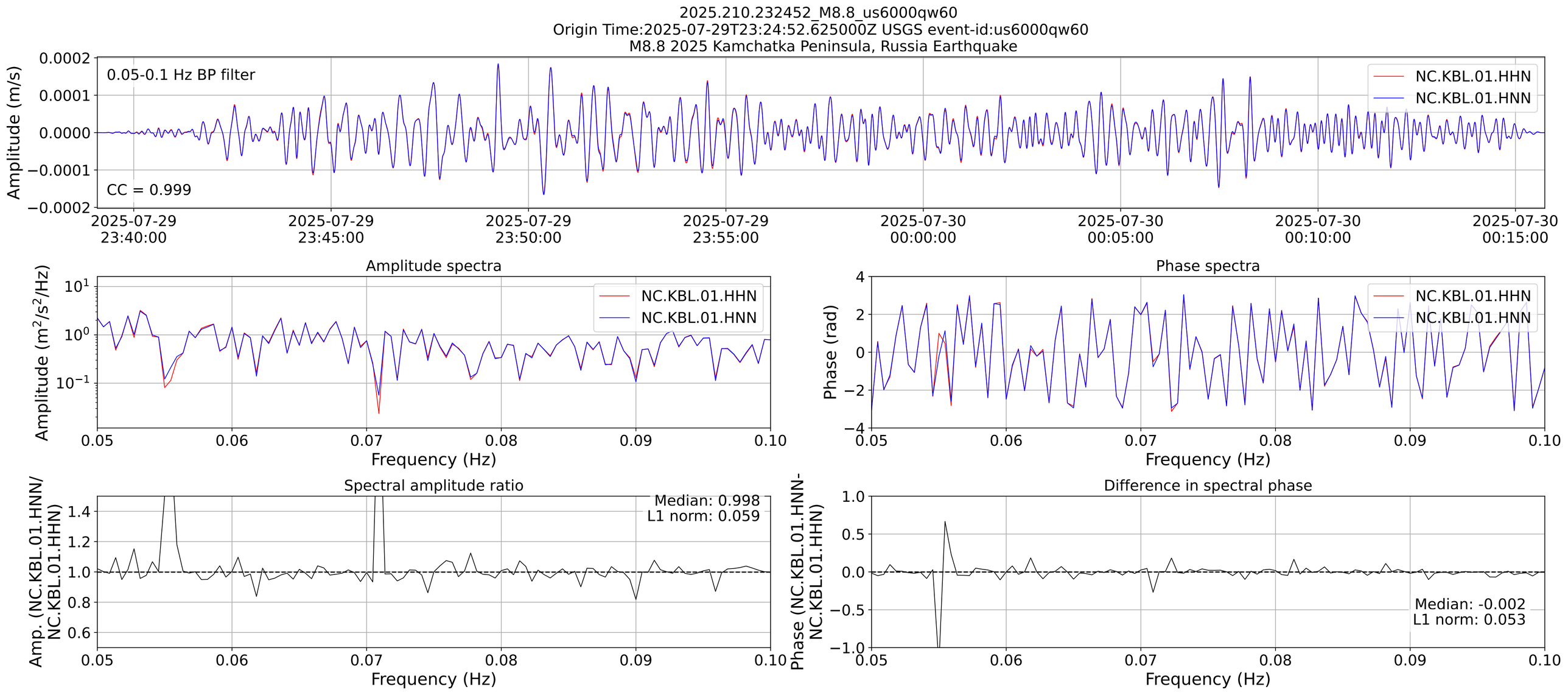

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JCD.01.HHZ
NC.JCD.01.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.JCD.01.HNZ/ NC.JCD.01.HHZ)
Median: 0.990
L1 norm: 0.024
Difference in spectral phase
Phase (NC.JCD.01.HNZ- NC.JCD.01.HHZ)
Median: -0.006
L1 norm: 0.029

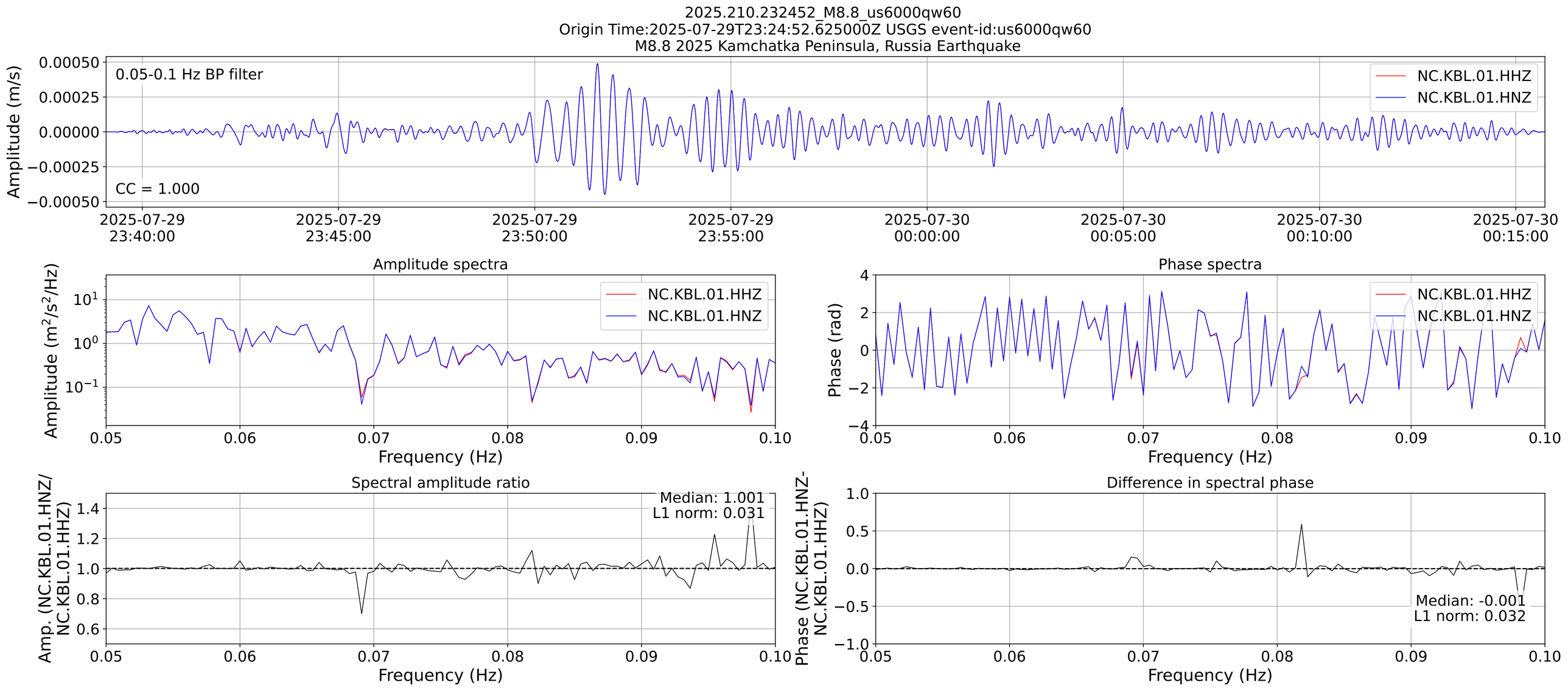

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.JLO.01.HHE
NC.JLO.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.JLO.01.HNE/ NC.JLO.01.HHE)
Median: 1.033
L1 norm: 0.104
Difference in spectral phase
Phase (NC.JLO.01.HNE- NC.JLO.01.HHE)
Median: -0.000
L1 norm: 0.064

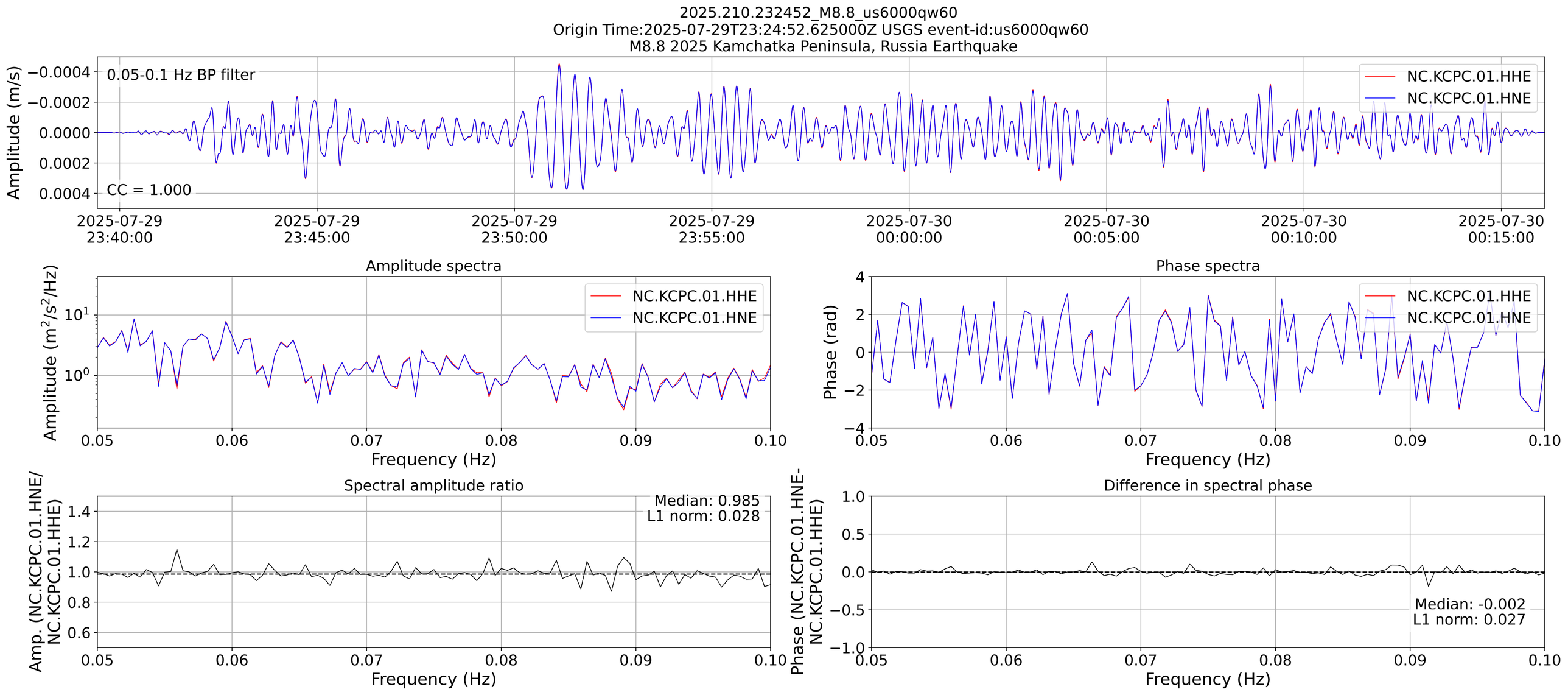

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
NC.JLO.01.HHN
NC.JLO.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.JLO.01.HNN/ NC.JLO.01.HHN)
Median: 1.011
L1 norm: 0.071
Difference in spectral phase
Phase (NC.JLO.01.HNN- NC.JLO.01.HHN)
Median: 0.002
L1 norm: 0.069

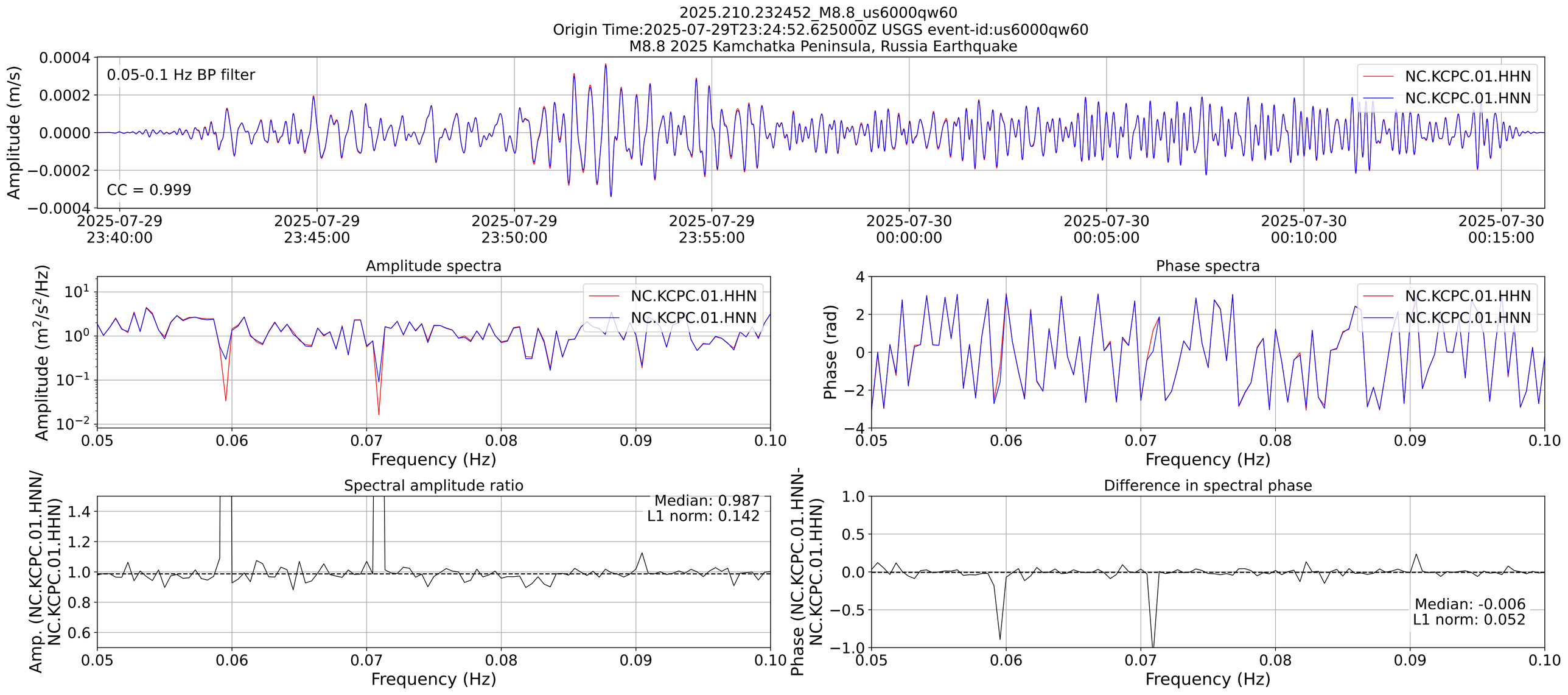

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.JLO.01.HHZ
NC.JLO.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.JLO.01.HNZ/ NC.JLO.01.HHZ)
Median: 1.011
L1 norm: 0.026
Difference in spectral phase
Phase (NC.JLO.01.HNZ-NC.JLO.01.HHZ)
Median: 0.002
L1 norm: 0.021

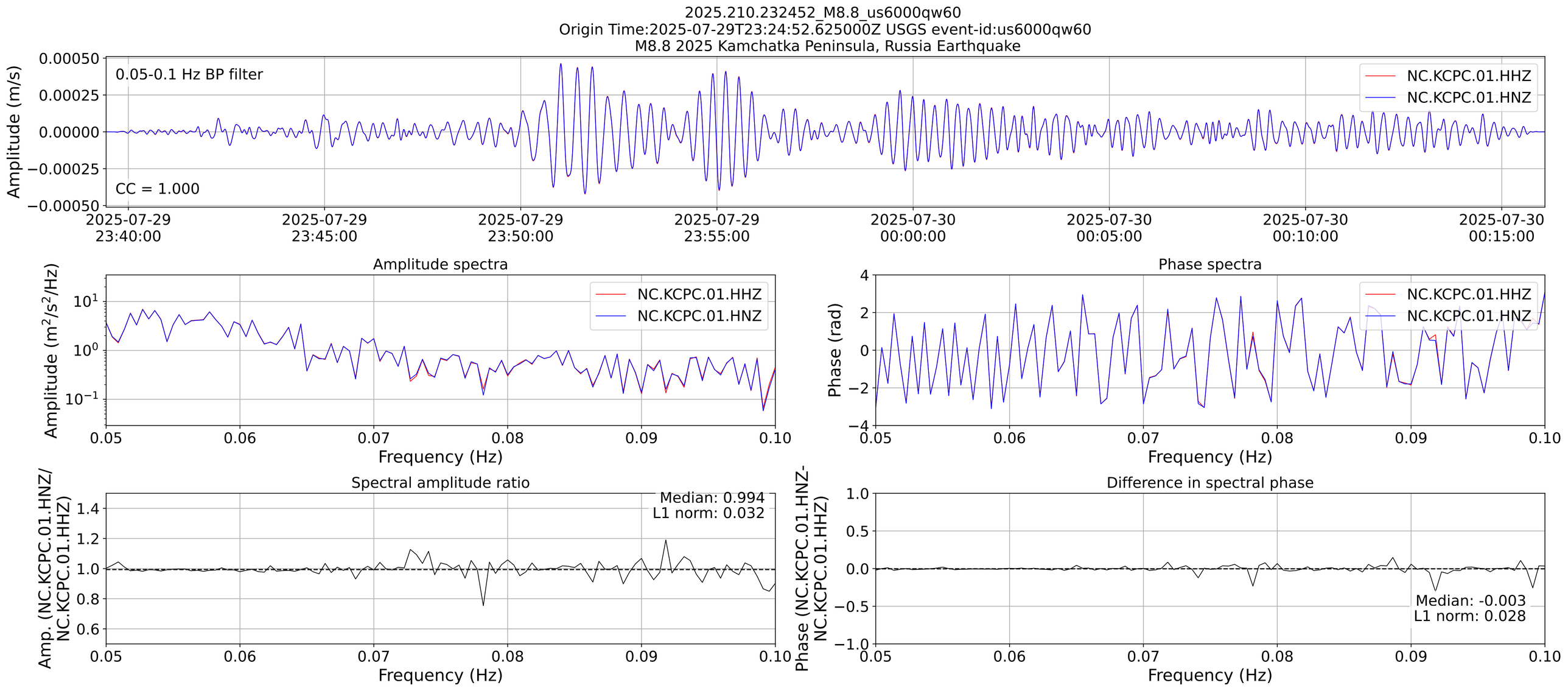

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KBL.01.HHE
NC.KBL.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KBL.01.HNE/ NC.KBL.01.HHE)
Median: 0.994
L1 norm: 0.026
Difference in spectral phase
Phase (NC.KBL.01.HNE- NC.KBL.01.HHE)
Median: -0.005
L1 norm: 0.039

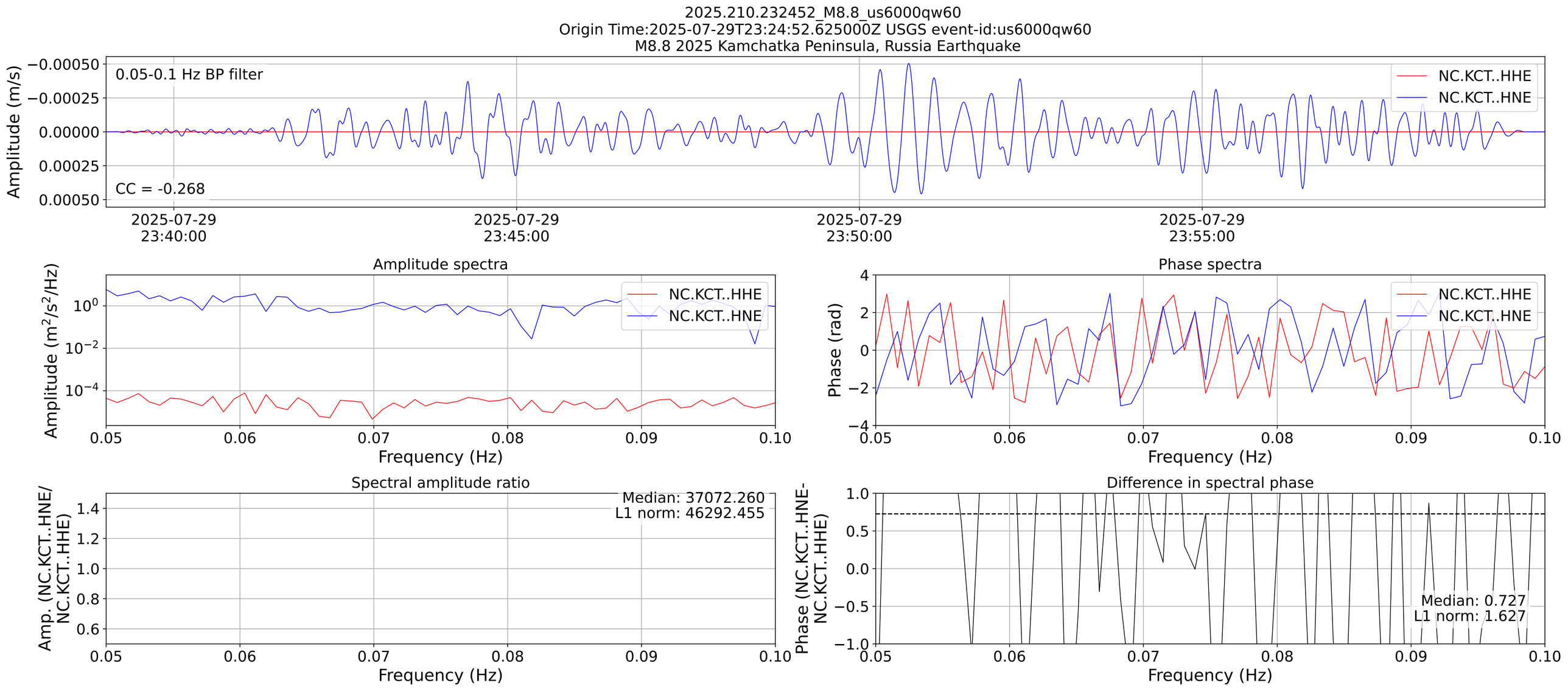

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KBL.01.HHN
NC.KBL.01.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KBL.01.HNN/ NC.KBL.01.HHN)
Median: 0.998
L1 norm: 0.059
Difference in spectral phase
Phase (NC.KBL.01.HNN- NC.KBL.01.HHN)
Median: -0.002
L1 norm: 0.053

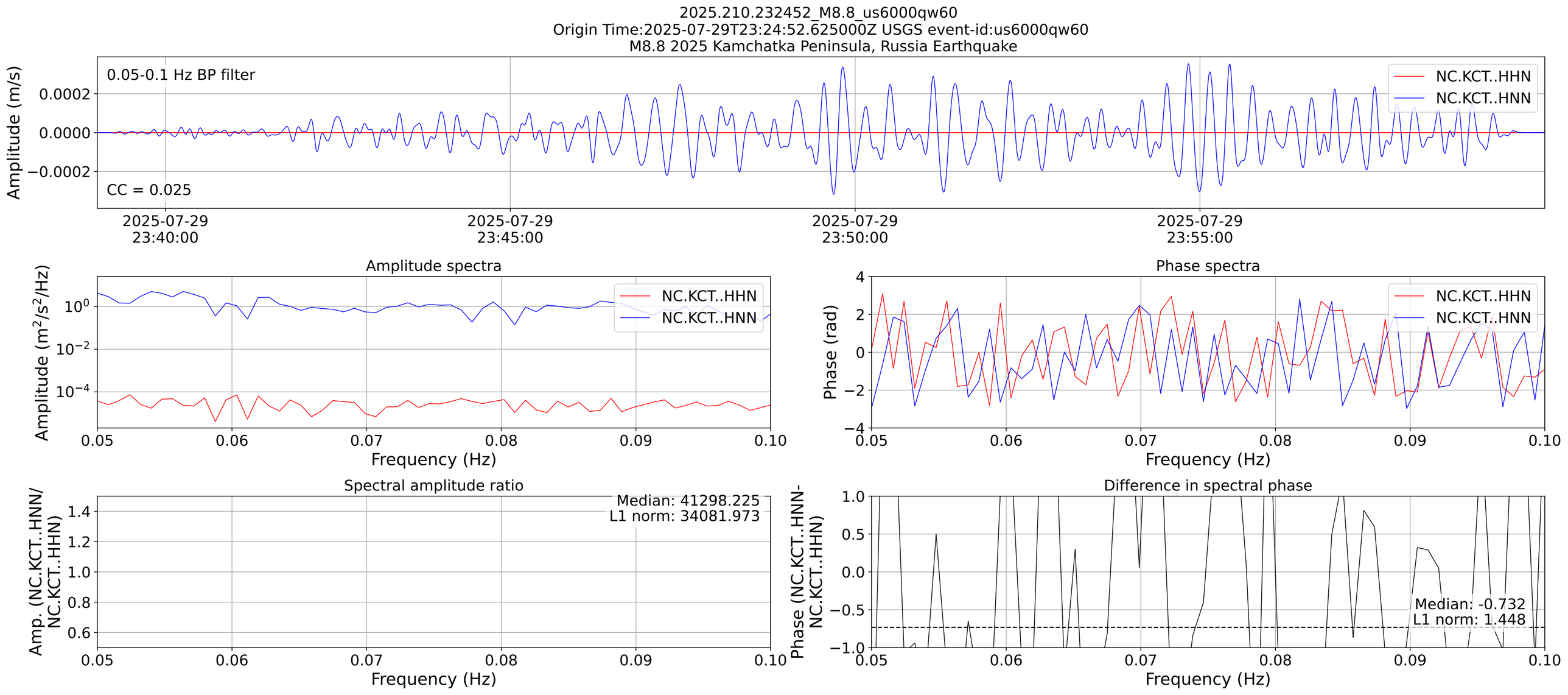

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KBL.01.HHZ
NC.KBL.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.KBL.01.HNZ/ NC.KBL.01.HHZ)
Median: 1.001
L1 norm: 0.031
Difference in spectral phase
Phase (NC.KBL.01.HNZ-NC.KBL.01.HHZ)
Median: -0.001
L1 norm: 0.032

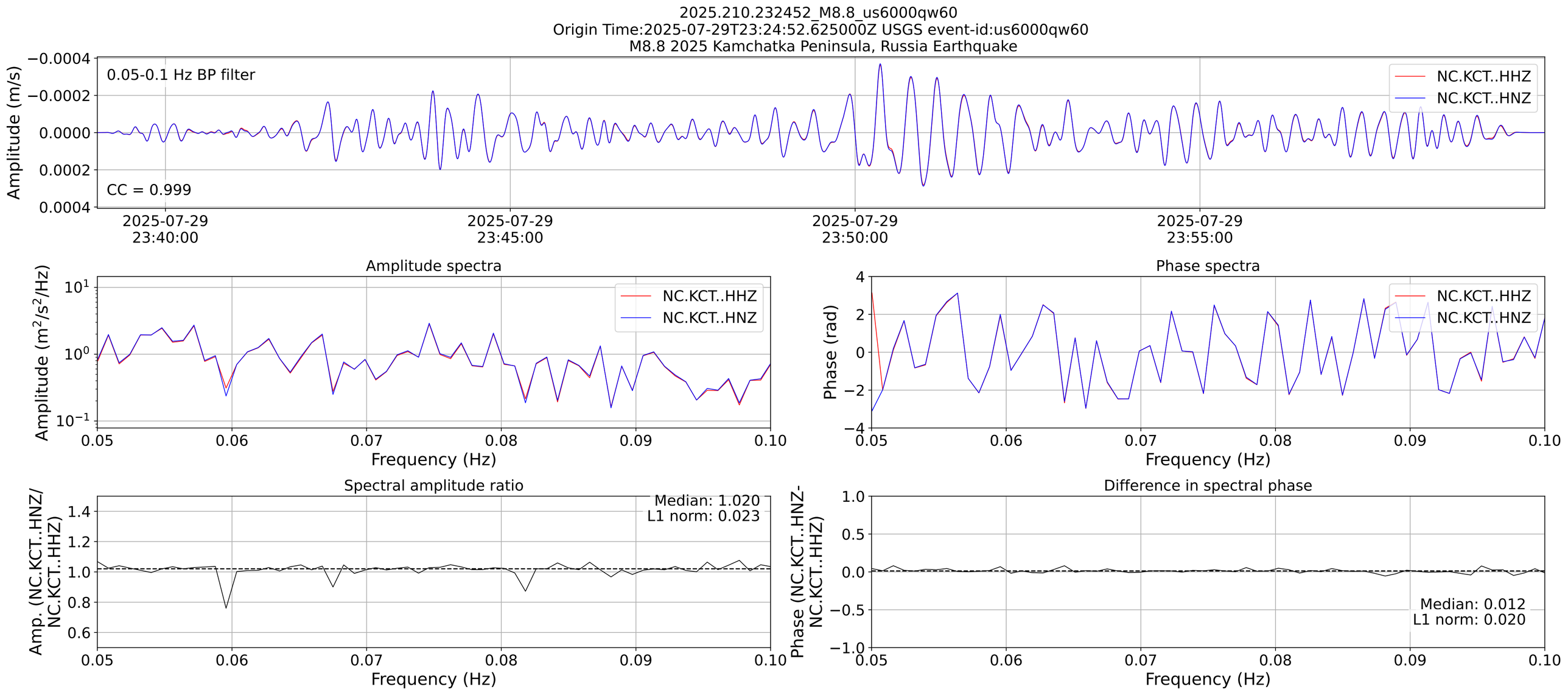

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KCPC.01.HHE
NC.KCPC.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.KCPC.01.HNE/ NC.KCPC.01.HHE)
Median: 0.985
L1 norm: 0.028
Difference in spectral phase
Phase (NC.KCPC.01.HNE- NC.KCPC.01.HHE)
Median: -0.002
L1 norm: 0.027

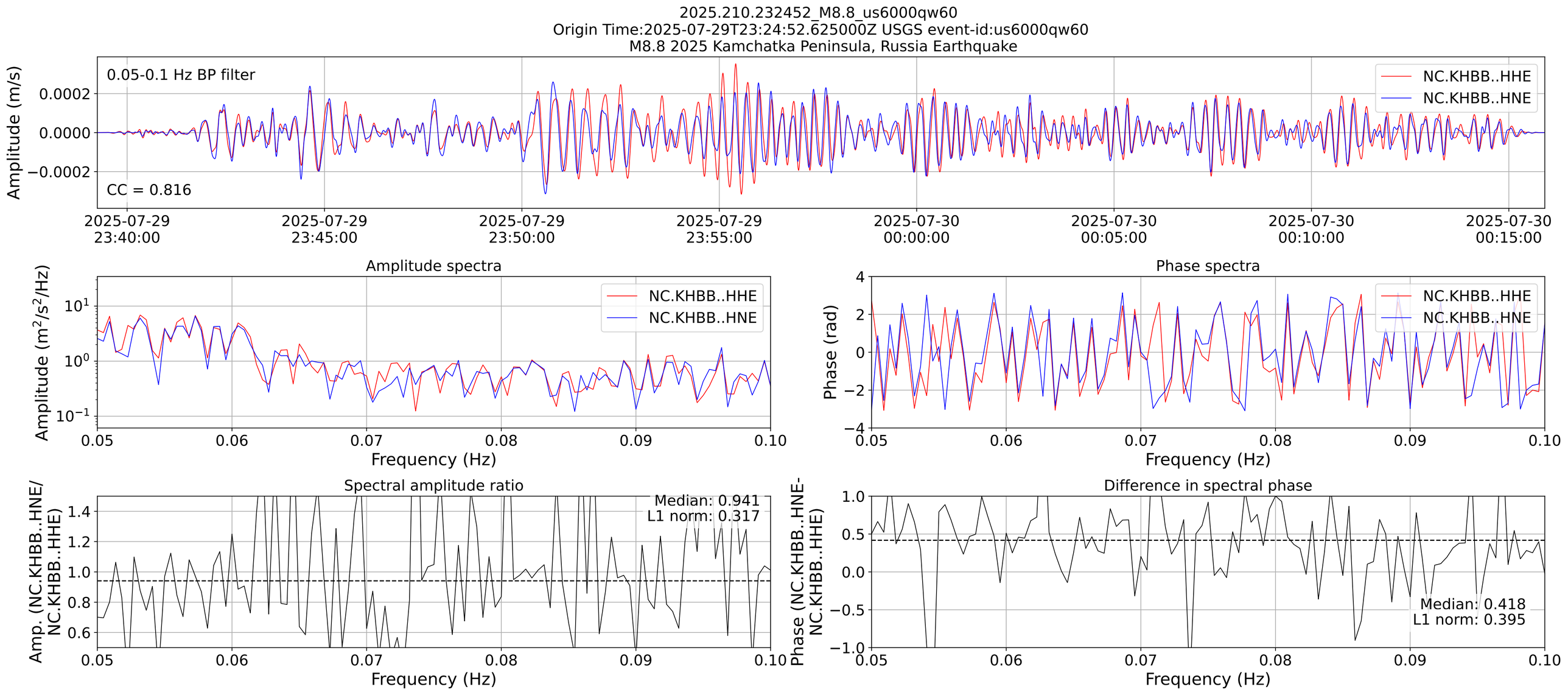

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KCPC.01.HHN
NC.KCPC.01.HNN
Amplitude (m/s)
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.KCPC.01.HNN/ NC.KCPC.01.HHN)
Median: 0.987
L1 norm: 0.142
Difference in spectral phase
Phase (NC.KCPC.01.HNN- NC.KCPC.01.HHN)
Median: -0.006
L1 norm: 0.052

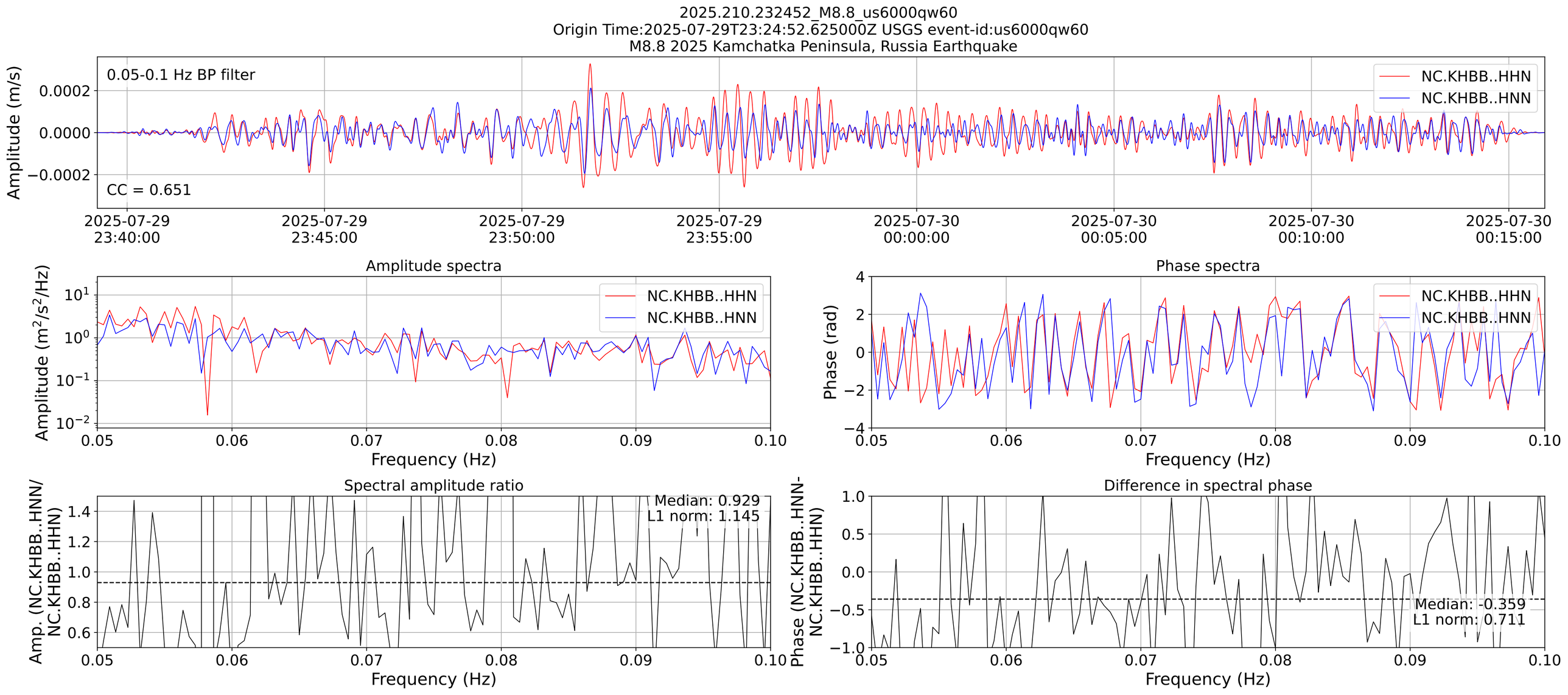

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KCPC.01.HHZ
NC.KCPC.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.KCPC.01.HNZ/ NC.KCPC.01.HHZ)
Median: 0.994
L1 norm: 0.032
Difference in spectral phase
Phase (NC.KCPC.01.HNZ- NC.KCPC.01.HHZ)
Median: -0.003
L1 norm: 0.028

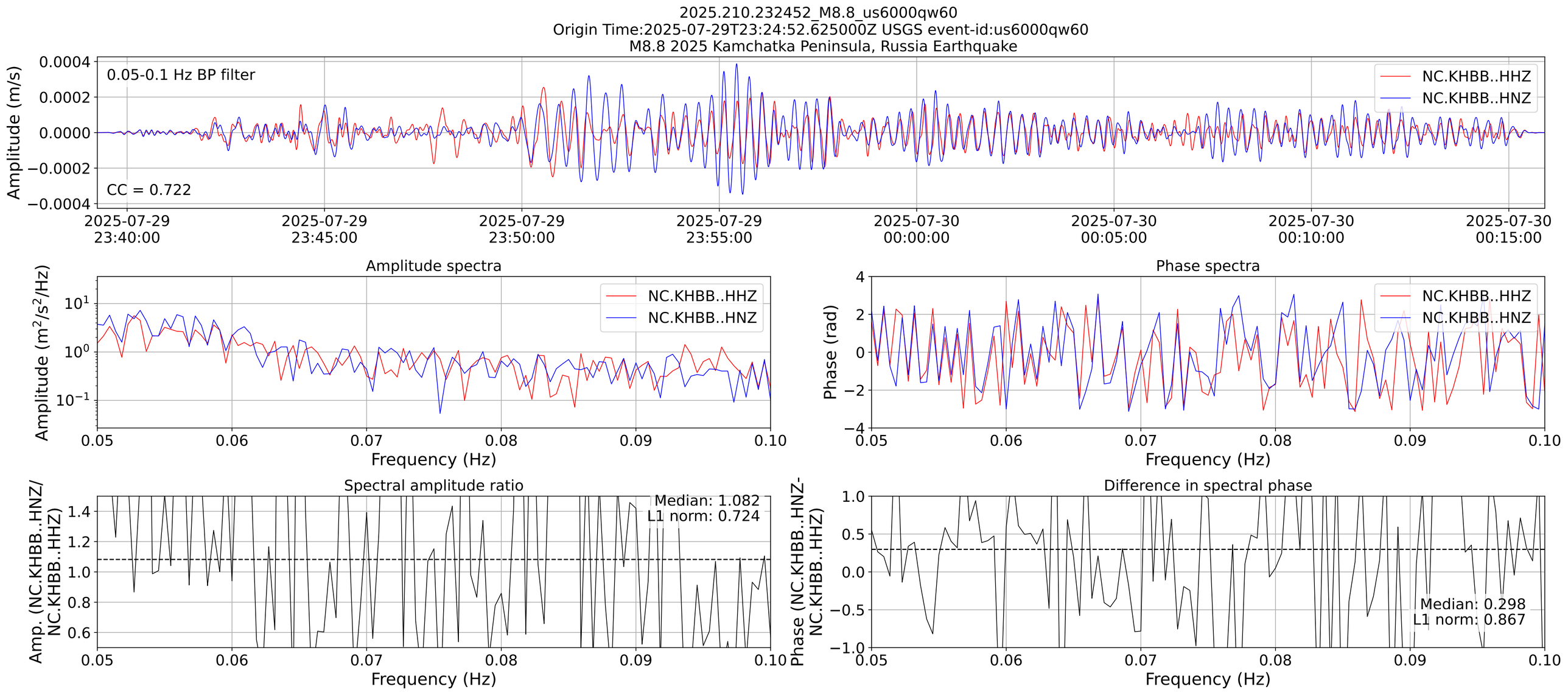

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.268
NC.KCT..HHE
NC.KCT..HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.KCT..HNE/ NC.KCT..HHE)
Median: 37072.260
L1 norm: 46292.455
Difference in spectral phase
Phase (NC.KCT..HNE- NC.KCT..HHE)
Median: 0.727
L1 norm: 1.627

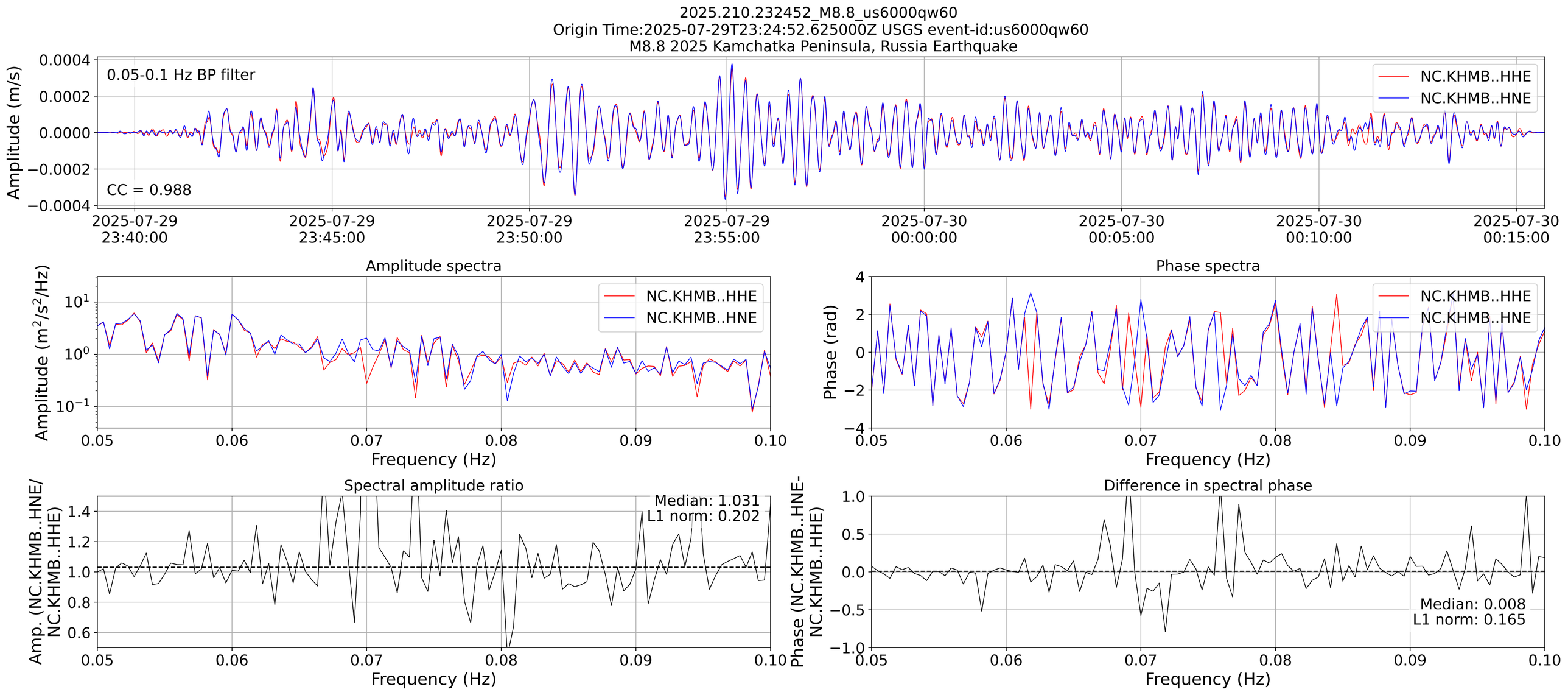

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.025
NC.KCT..HHN
NC.KCT..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.KCT..HNN/ NC.KCT..HHN)
Median: 41298.225
L1 norm: 34081.973
Difference in spectral phase
Phase (NC.KCT..HNN- NC.KCT..HHN)
Median: -0.732
L1 norm: 1.448

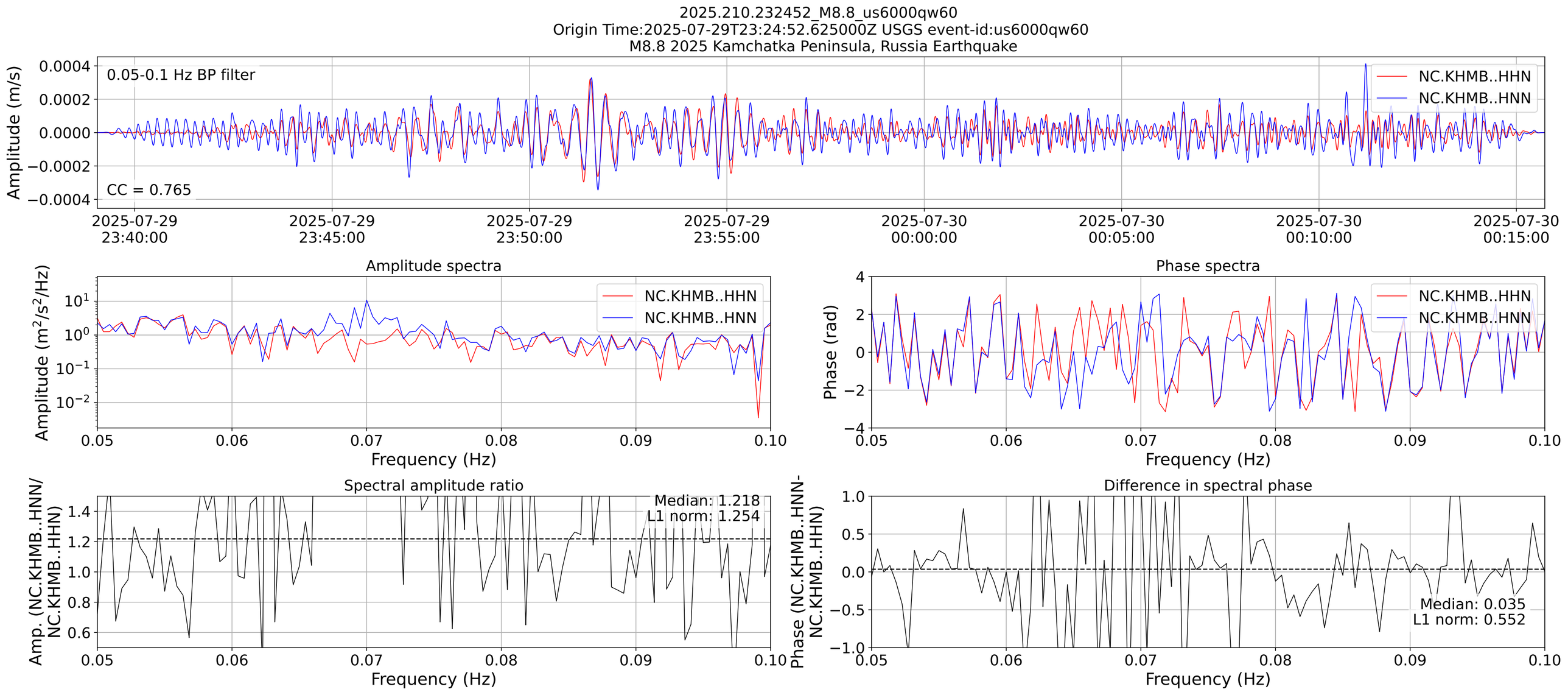

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KCT..HHZ
NC.KCT..HNZ
Amplitude (m/s)
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (NC.KCT..HNZ/ NC.KCT..HHZ)
Median: 1.020
L1 norm: 0.023
Difference in spectral phase
Phase (NC.KCT..HNZ- NC.KCT..HHZ)
Median: 0.012
L1 norm: 0.020

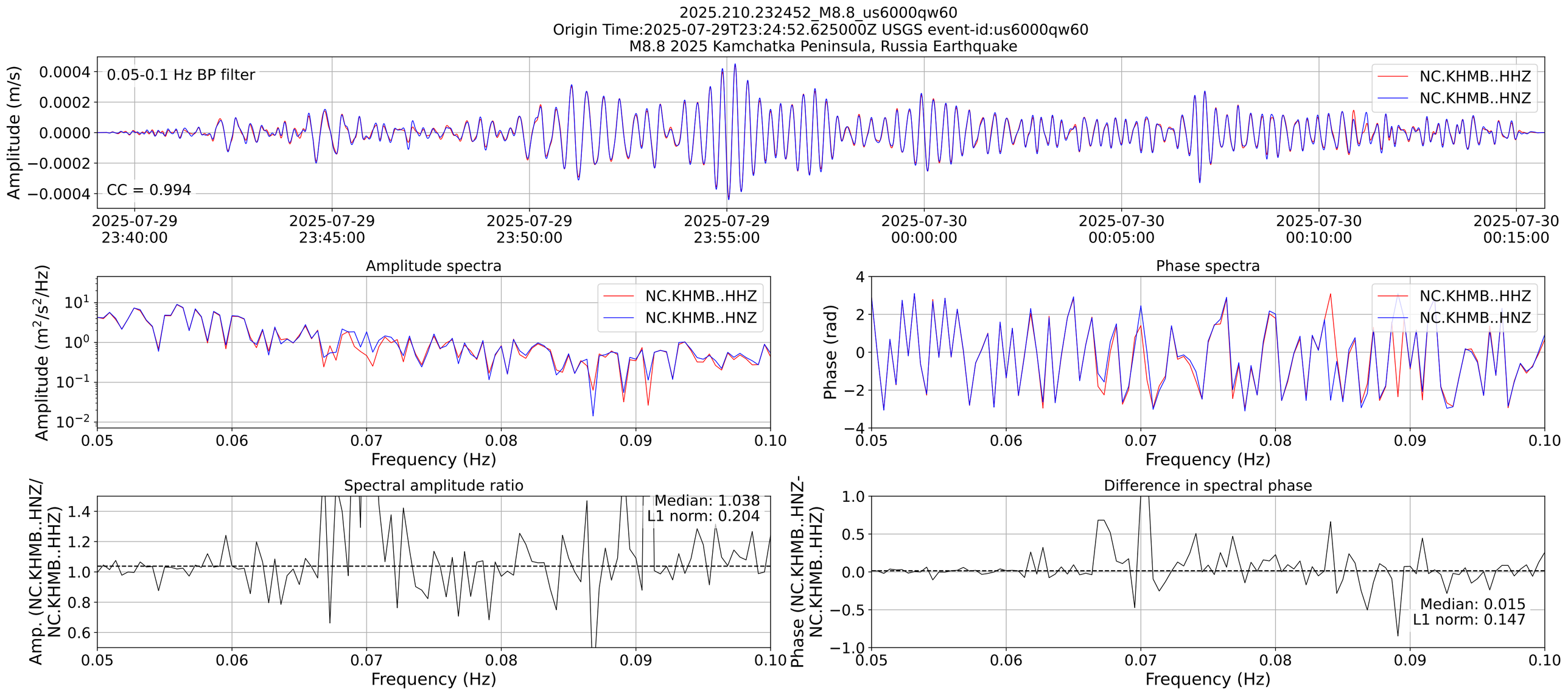

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.816
NC.KHBB..HHE
NC.KHBB..HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KHBB..HNE/ NC.KHBB..HHE)
Median: 0.941
L1 norm: 0.317
Difference in spectral phase
Phase (NC.KHBB..HNE- NC.KHBB..HHE)
Median: 0.418
L1 norm: 0.395

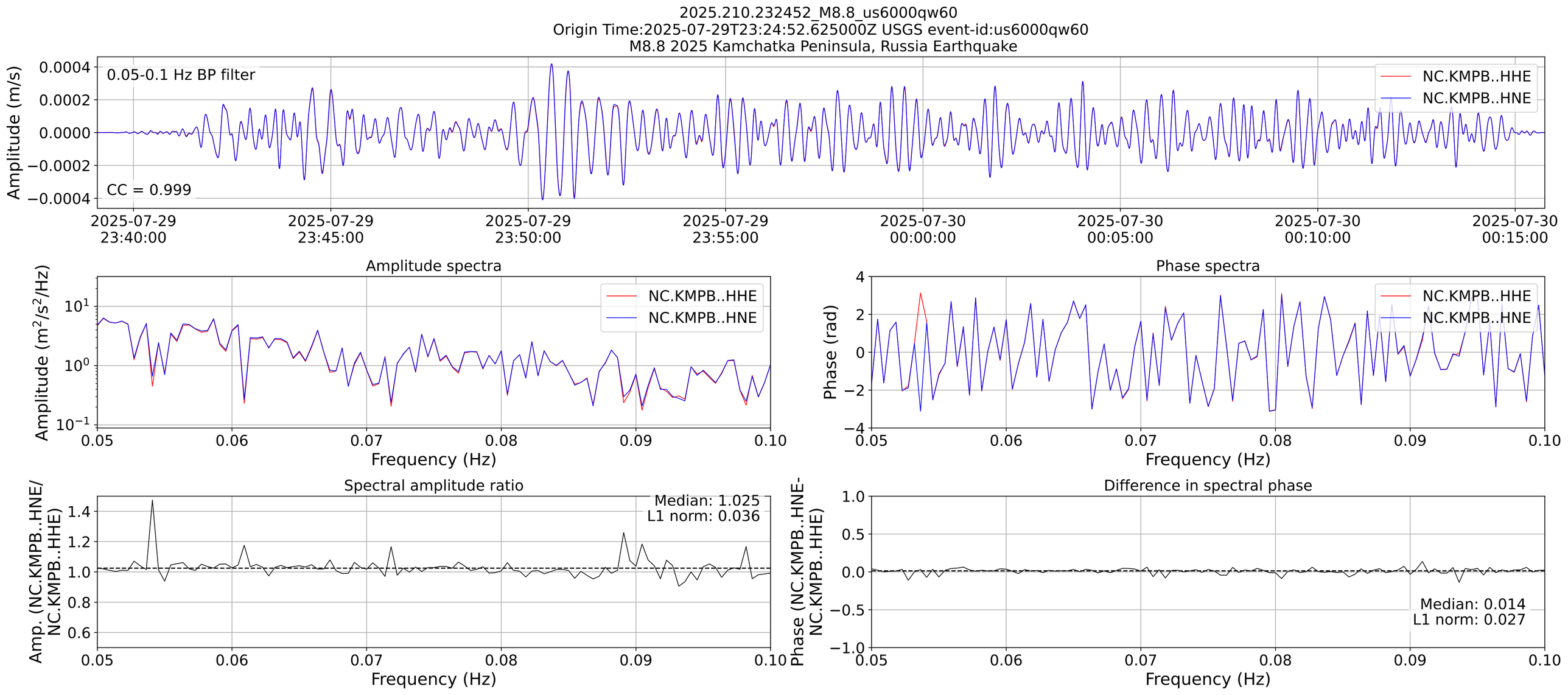

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.651
NC.KHBB..HHN
NC.KHBB..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KHBB..HNN/ NC.KHBB..HHN)
Median: 0.929
L1 norm: 1.145
Difference in spectral phase
Phase (NC.KHBB..HNN- NC.KHBB..HHN)
Median: -0.359
L1 norm: 0.711

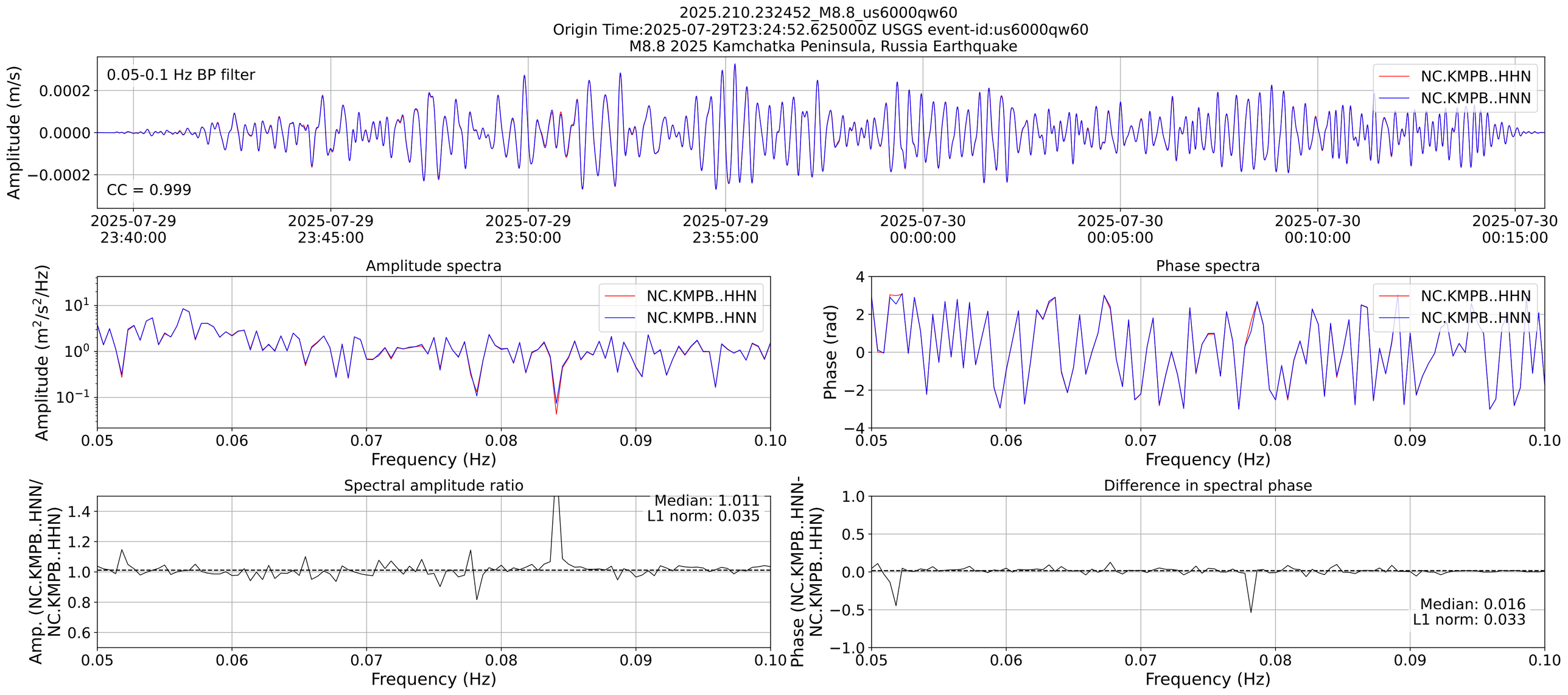

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.722
NC.KHBB..HHZ
NC.KHBB..HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KHBB..HNZ/ NC.KHBB..HHZ)
Median: 1.082
L1 norm: 0.724
Difference in spectral phase
Phase (NC.KHBB..HNZ- NC.KHBB..HHZ)
Median: 0.298
L1 norm: 0.867

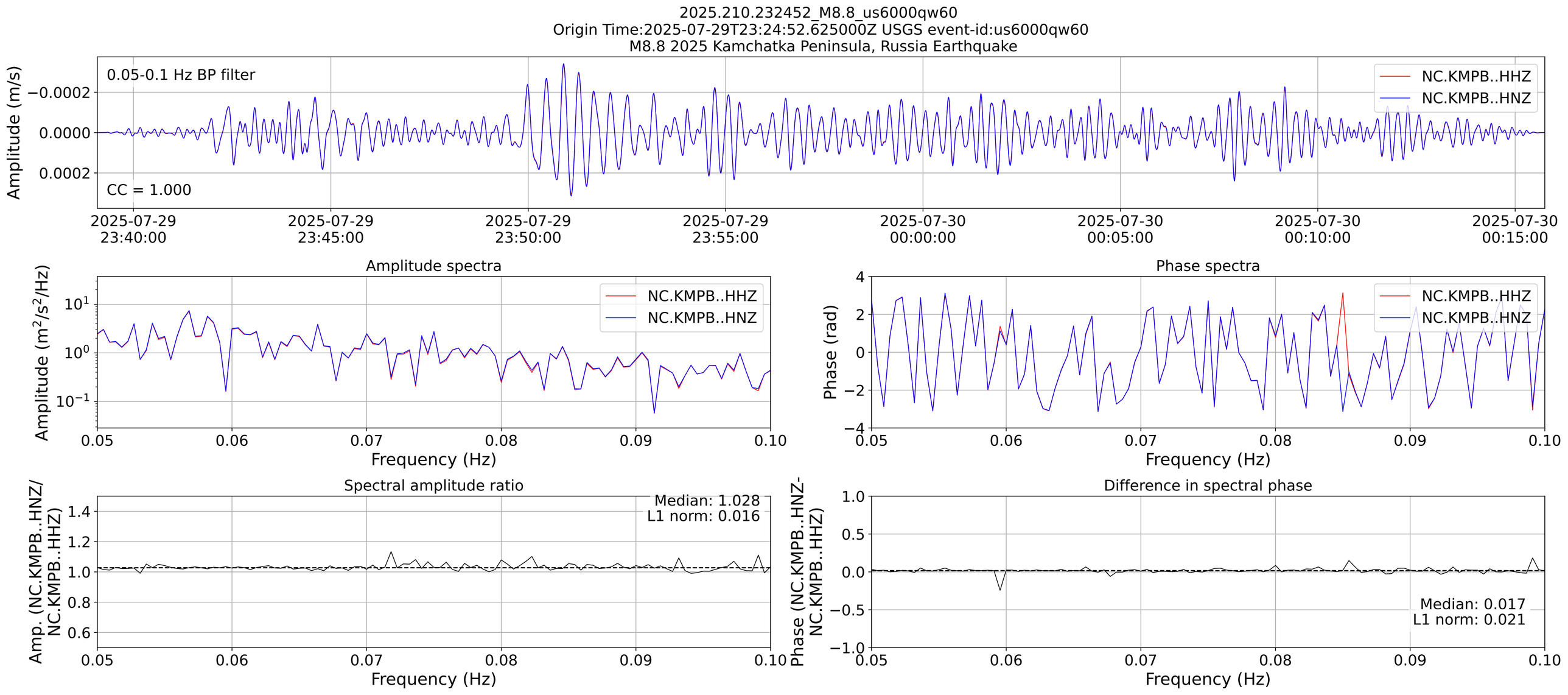

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.988
NC.KHMB..HHE
NC.KHMB..HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KHMB..HNE/ NC.KHMB..HHE)
Median: 1.031
L1 norm: 0.202
Difference in spectral phase
Phase (NC.KHMB..HNE- NC.KHMB..HHE)
Median: 0.008
L1 norm: 0.165

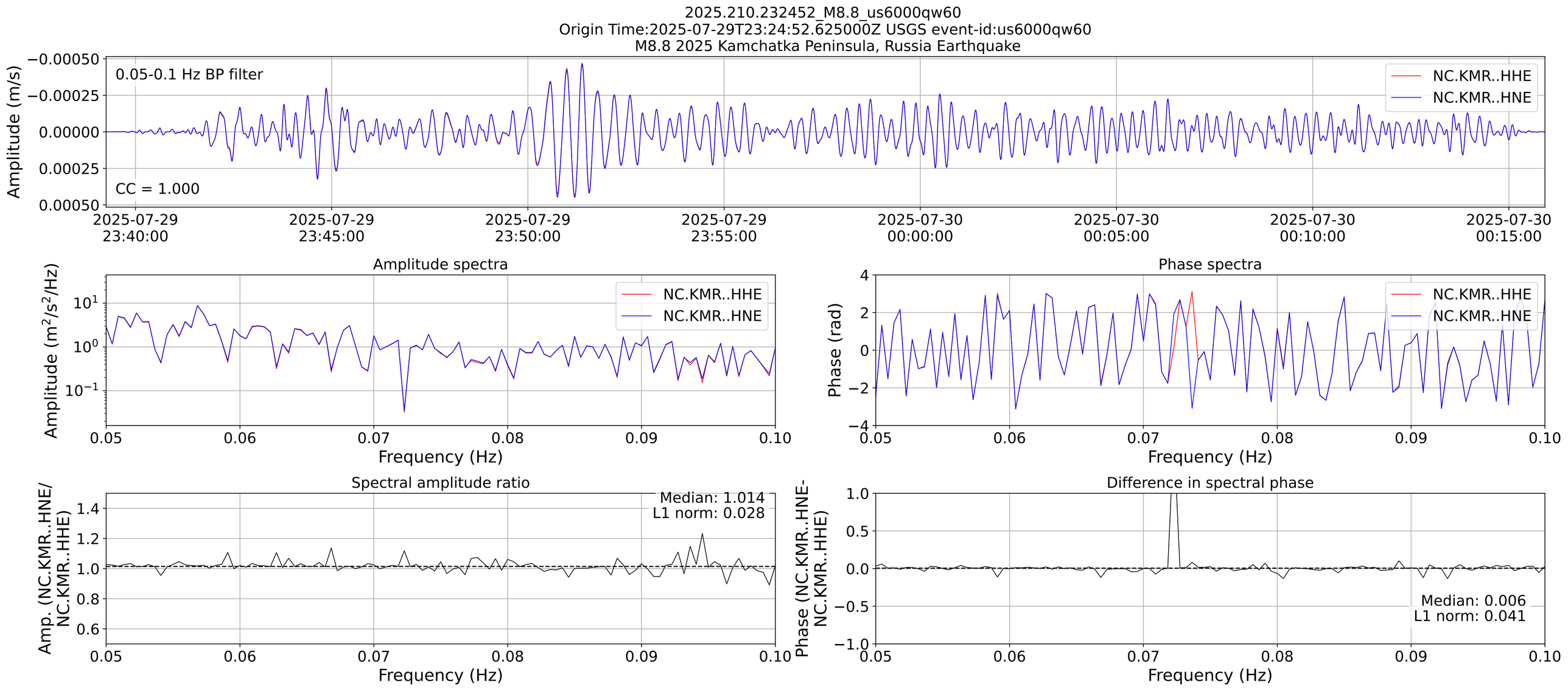

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.765
NC.KHMB..HHN
NC.KHMB..HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KHMB..HNN/ NC.KHMB..HHN)
Median: 1.218
L1 norm: 1.254
Difference in spectral phase
Phase (NC.KHMB..HNN- NC.KHMB..HHN)
Median: 0.035
L1 norm: 0.552

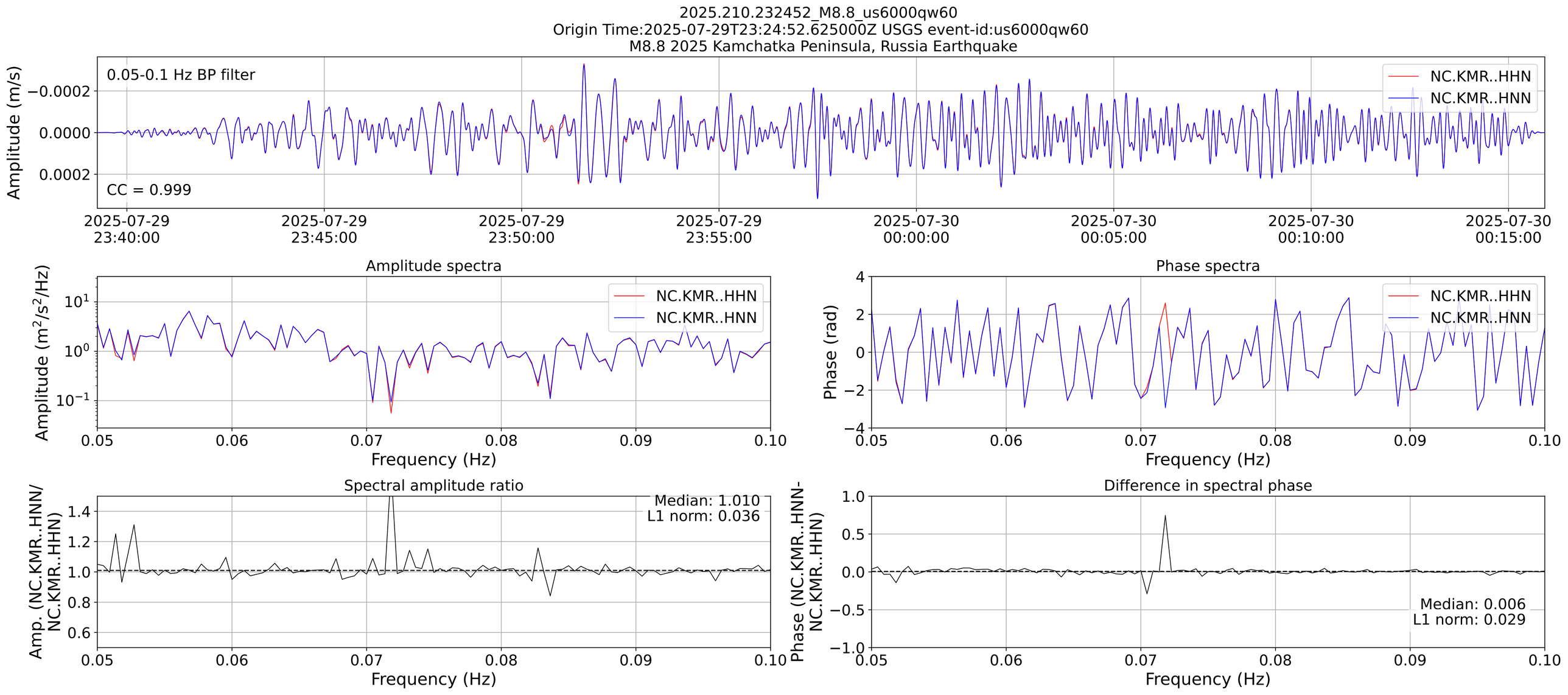

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
NC.KHMB..HHZ
NC.KHMB..HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KHMB..HNZ/ NC.KHMB..HHZ)
Median: 1.038
L1 norm: 0.204
Difference in spectral phase
Phase (NC.KHMB..HNZ- NC.KHMB..HHZ)
Median: 0.015
L1 norm: 0.147

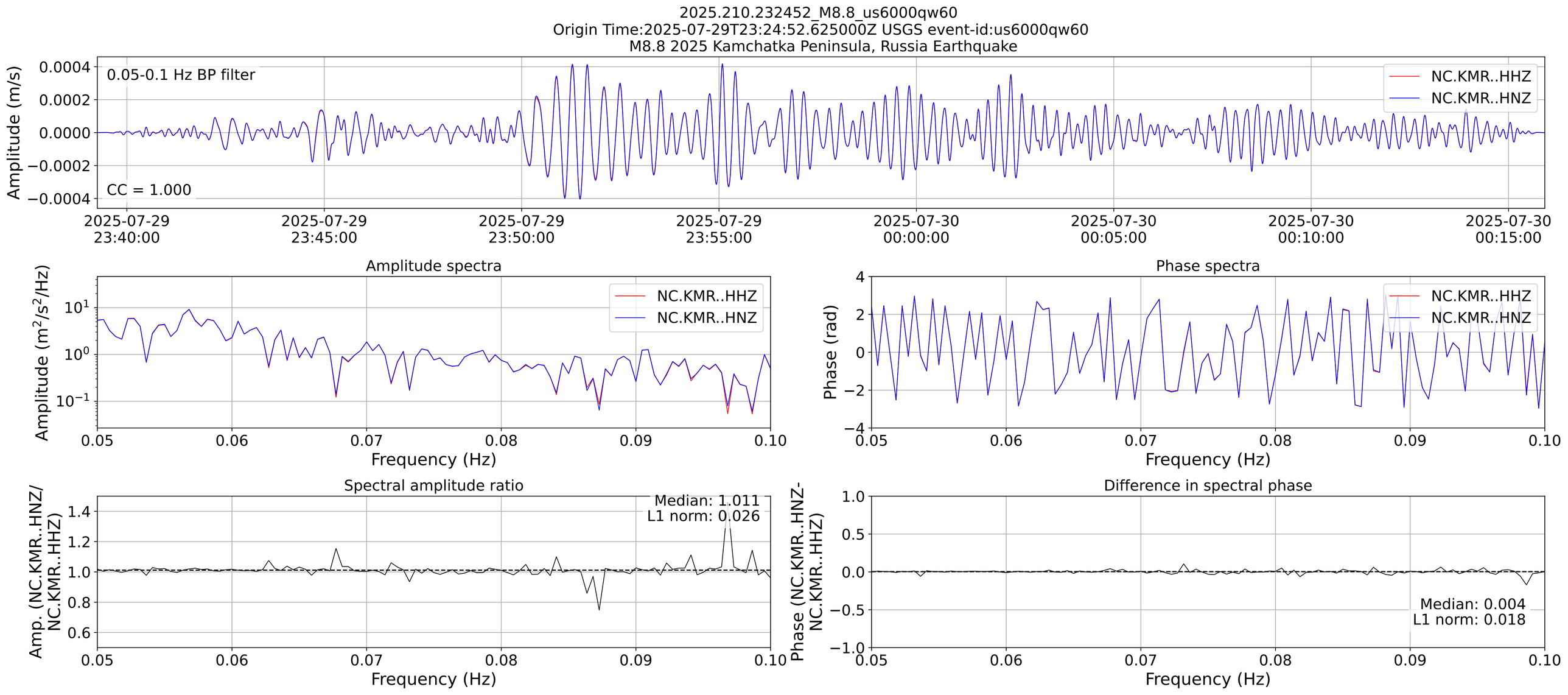

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KMPB..HHE
NC.KMPB..HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KMPB..HNE/ NC.KMPB..HHE)
Median: 1.025
L1 norm: 0.036
Difference in spectral phase
Phase (NC.KMPB..HNE- NC.KMPB..HHE)
Median: 0.014
L1 norm: 0.027

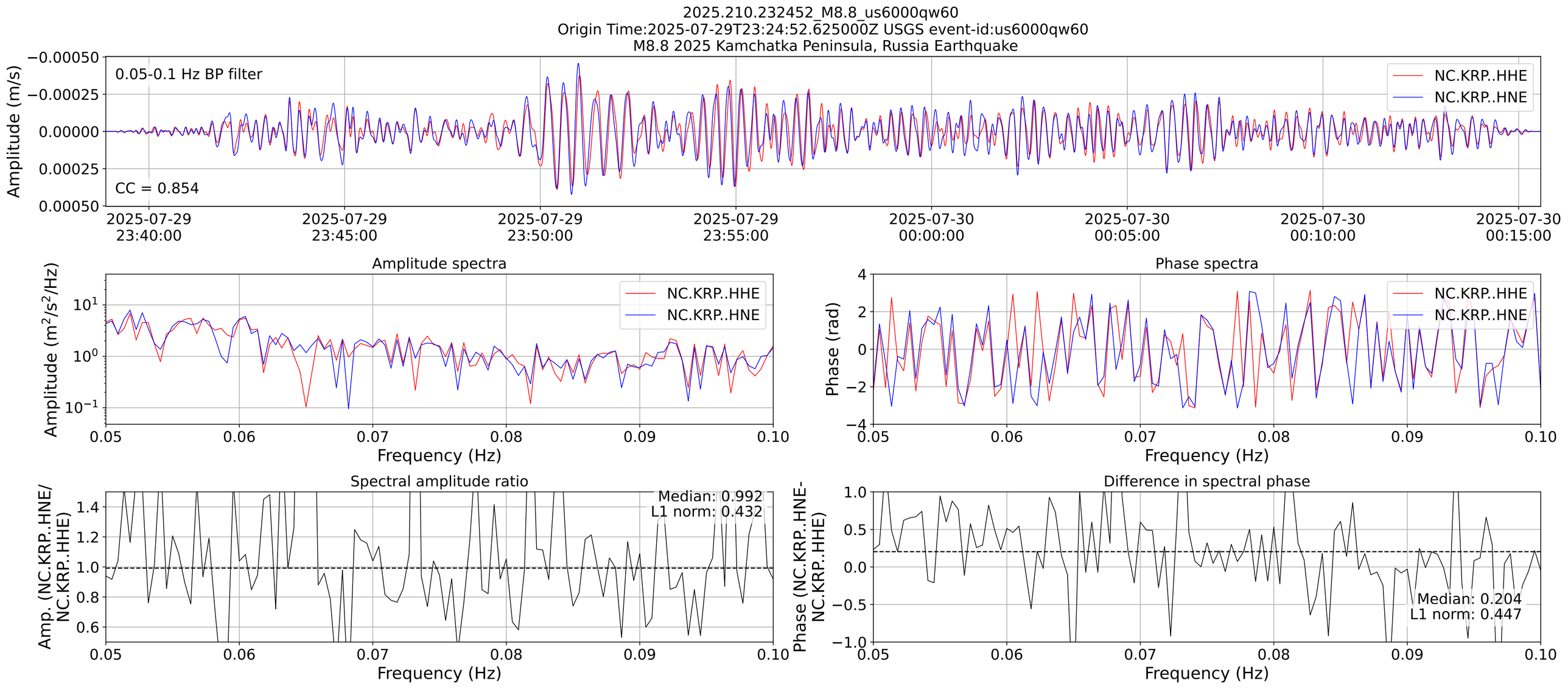

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KMPB..HHN
NC.KMPB..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KMPB..HNN/ NC.KMPB..HHN)
Median: 1.011
L1 norm: 0.035
Difference in spectral phase
Phase (NC.KMPB..HNN- NC.KMPB..HHN)
Median: 0.016
L1 norm: 0.033

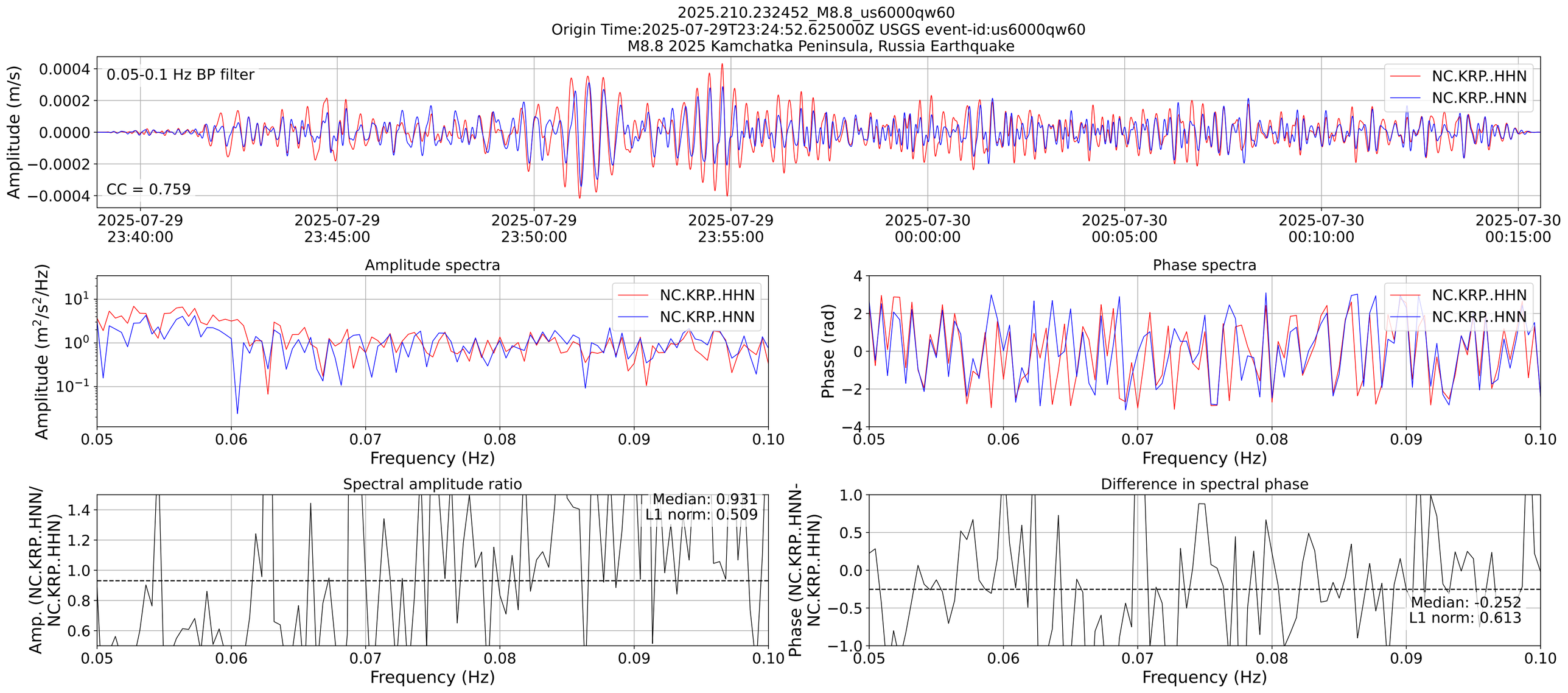

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KMPB..HHZ
NC.KMPB..HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KMPB..HNZ/ NC.KMPB..HHZ)
Median: 1.028
L1 norm: 0.016
Difference in spectral phase
Phase (NC.KMPB..HNZ- NC.KMPB..HHZ)
Median: 0.017
L1 norm: 0.021

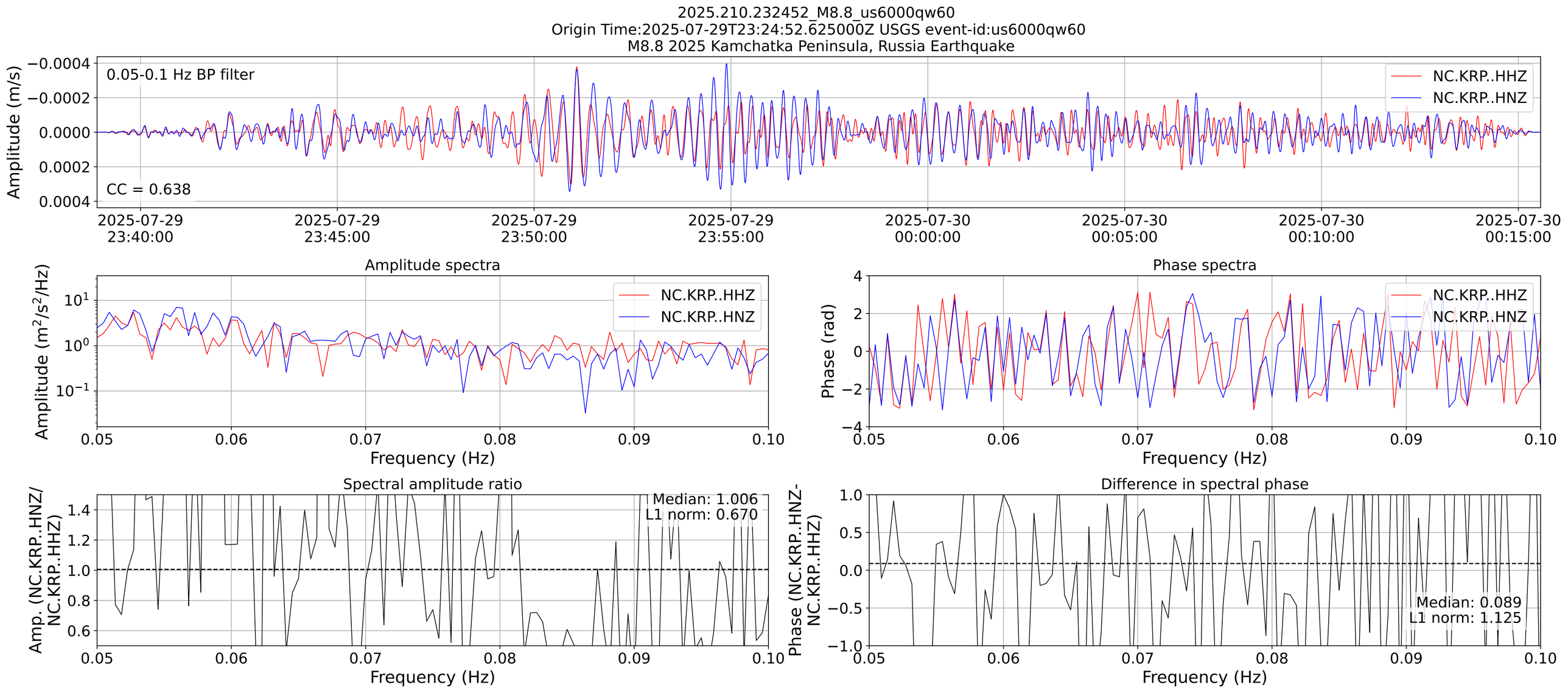

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KMR..HHE
NC.KMR..HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.KMR..HNE/ NC.KMR..HHE)
Median: 1.014
L1 norm: 0.028
Difference in spectral phase
Phase (NC.KMR..HNE- NC.KMR..HHE)
Median: 0.006
L1 norm: 0.041

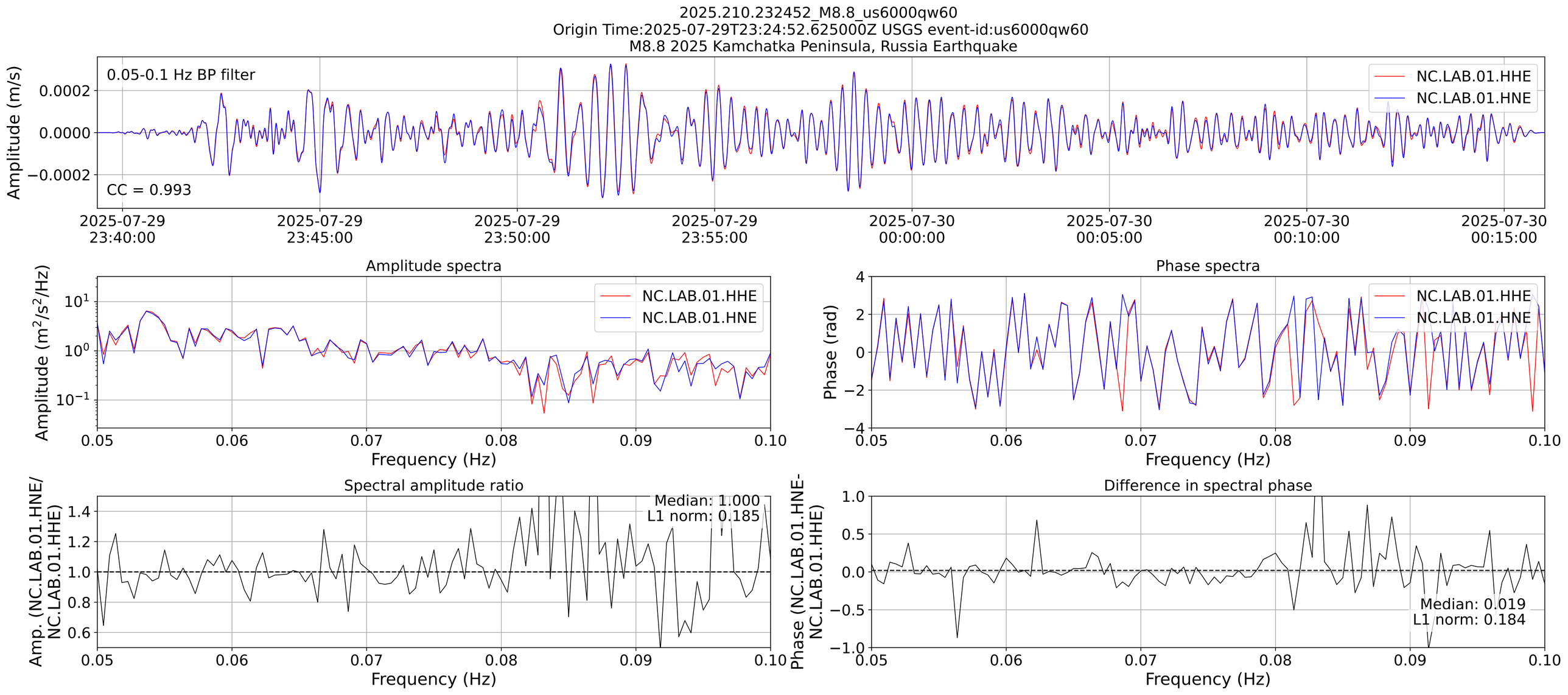

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.KMR..HHN
NC.KMR..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.KMR..HNN/ NC.KMR..HHN)
Median: 1.010
L1 norm: 0.036
Difference in spectral phase
Phase (NC.KMR..HNN- NC.KMR..HHN)
Median: 0.006
L1 norm: 0.029

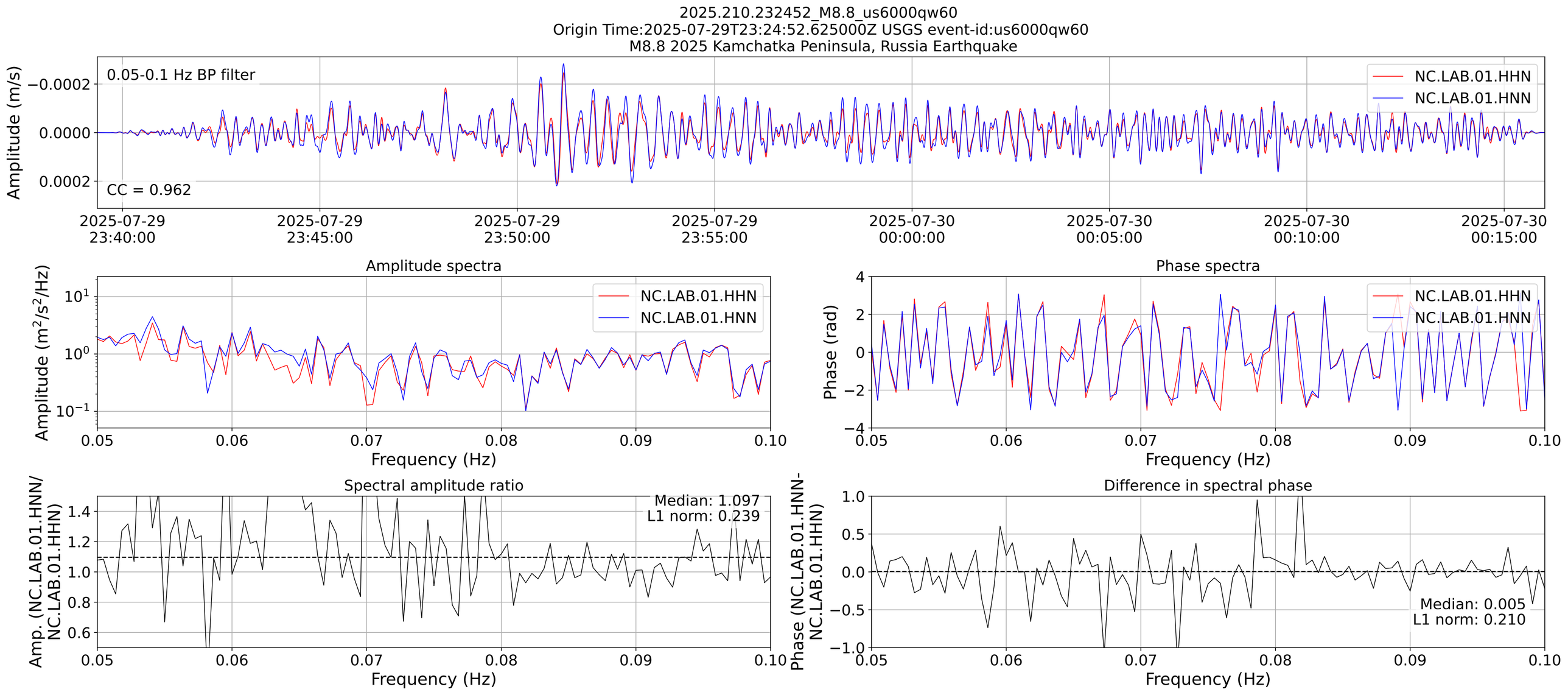

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.KMR..HHZ
NC.KMR..HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KMR..HNZ/ NC.KMR..HHZ)
Median: 1.011
L1 norm: 0.026
Difference in spectral phase
Phase (NC.KMR..HNZ- NC.KMR..HHZ)
Median: 0.004
L1 norm: 0.018

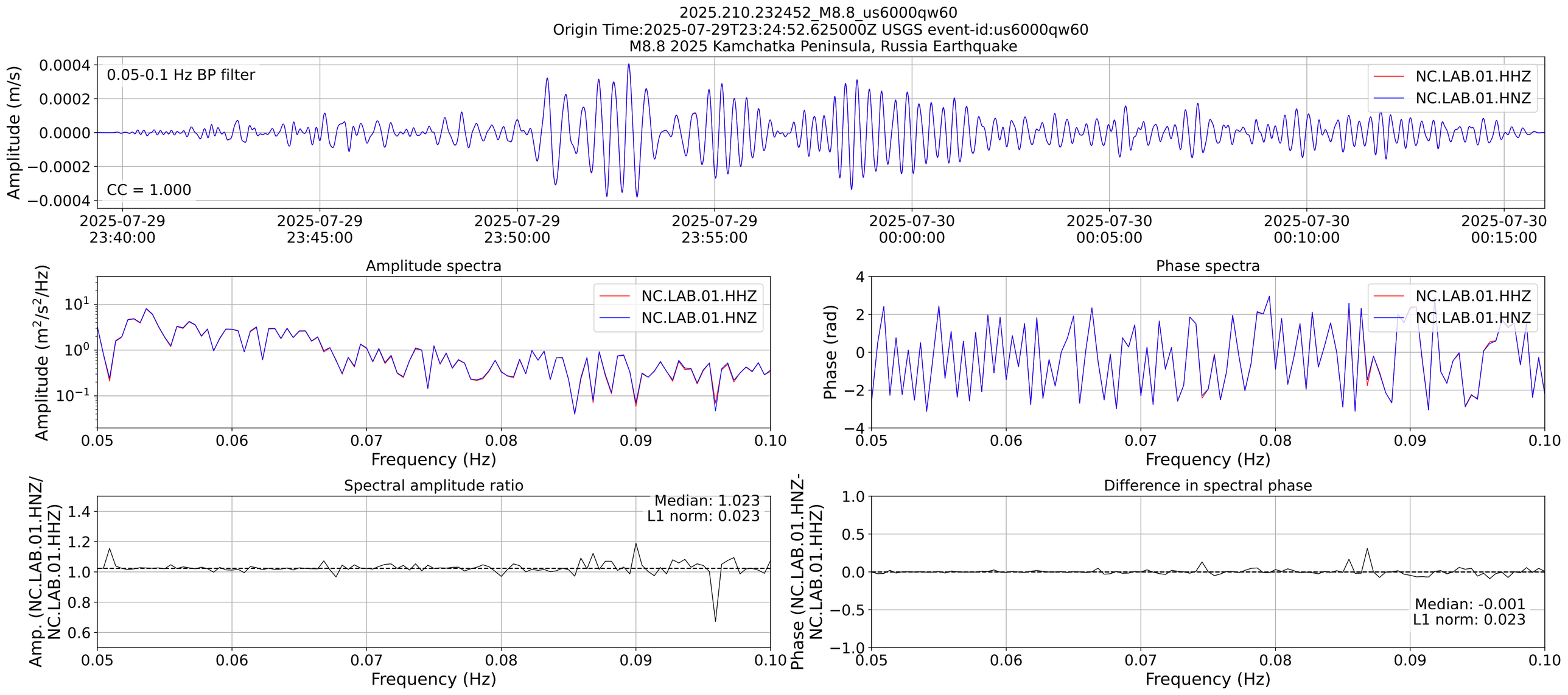

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.854
NC.KRP..HHE
NC.KRP..HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.KRP..HNE/ NC.KRP..HHE)
Median: 0.992
L1 norm: 0.432
Difference in spectral phase
Phase (NC.KRP..HNE- NC.KRP..HHE)
Median: 0.204
L1 norm: 0.447

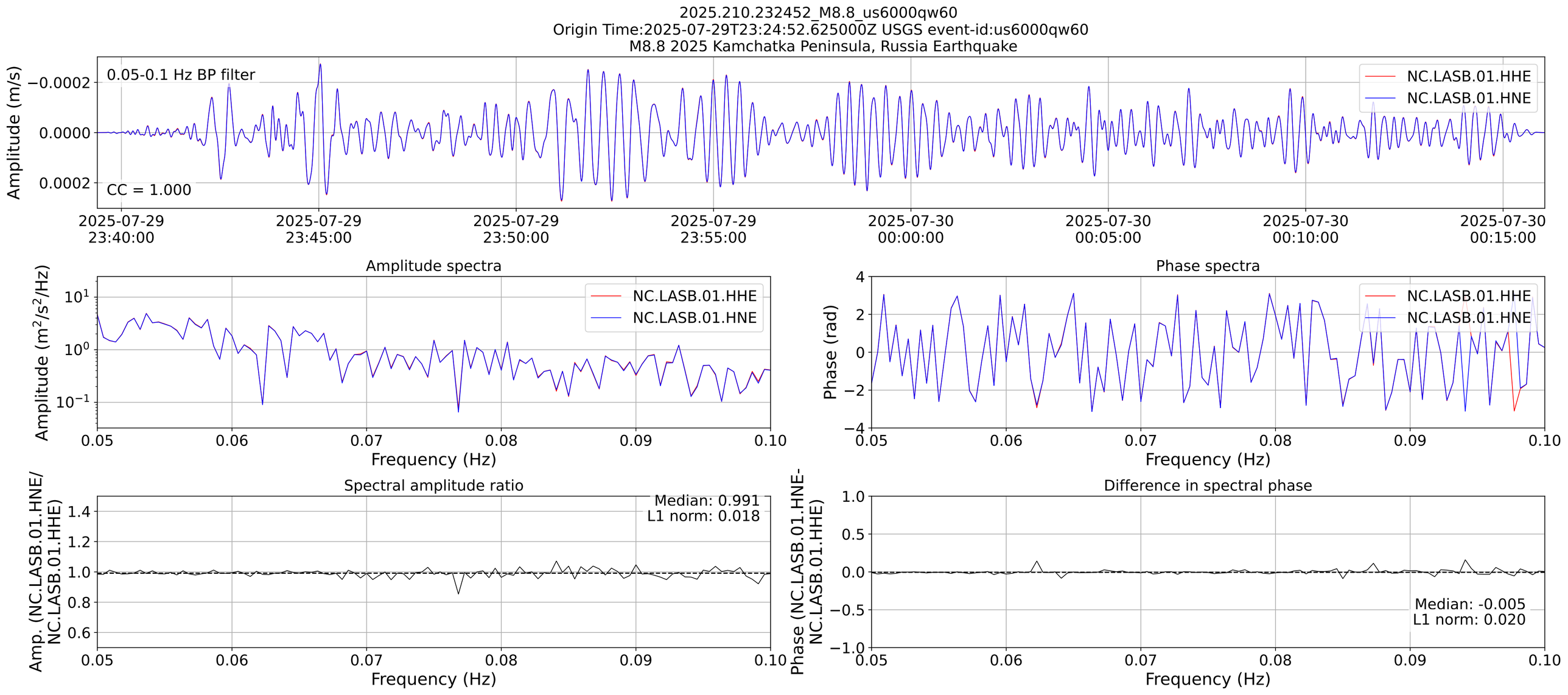

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.759
NC.KRP..HHN
NC.KRP..HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KRP..HNN/ NC.KRP..HHN)
Median: 0.931
L1 norm: 0.509
Difference in spectral phase
Phase (NC.KRP..HNN- NC.KRP..HHN)
Median: -0.252
L1 norm: 0.613

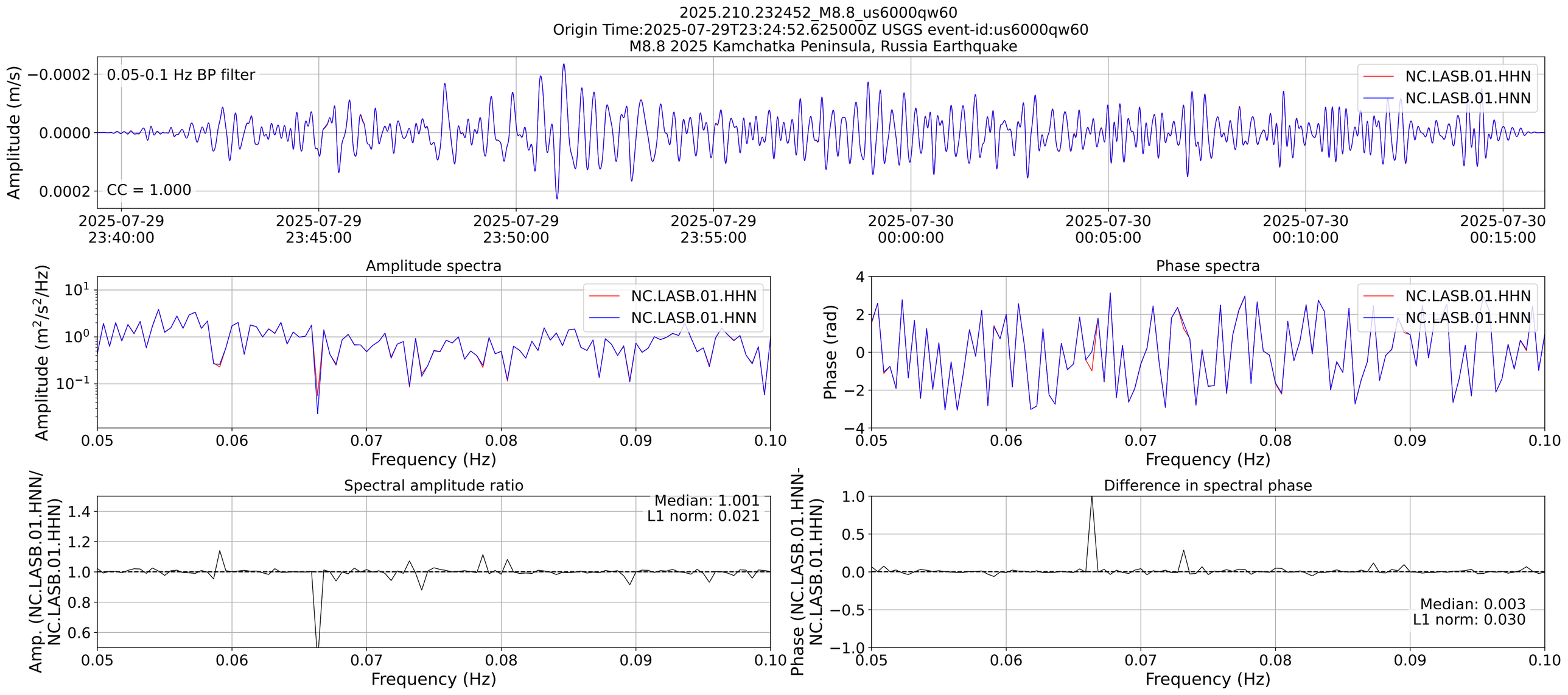

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.638
NC.KRP..HHZ
NC.KRP..HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.KRP..HNZ/ NC.KRP..HHZ)
Median: 1.006
L1 norm: 0.670
Difference in spectral phase
Phase (NC.KRP..HNZ- NC.KRP..HHZ)
Median: 0.089
L1 norm: 1.125

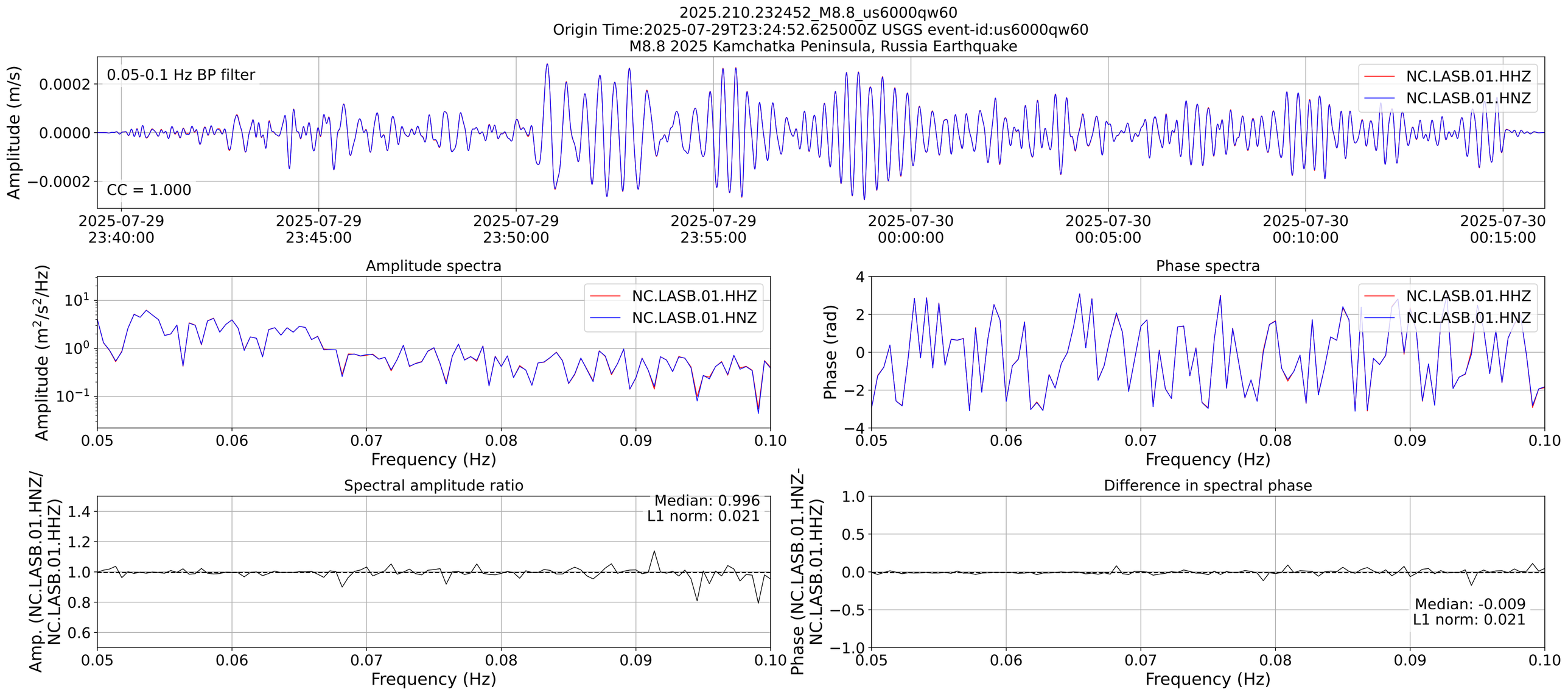

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.993
NC.LAB.01.HHE
NC.LAB.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LAB.01.HNE/ NC.LAB.01.HHE)
Median: 1.000
L1 norm: 0.185
Difference in spectral phase
Phase (NC.LAB.01.HNE- NC.LAB.01.HHE)
Median: 0.019
L1 norm: 0.184

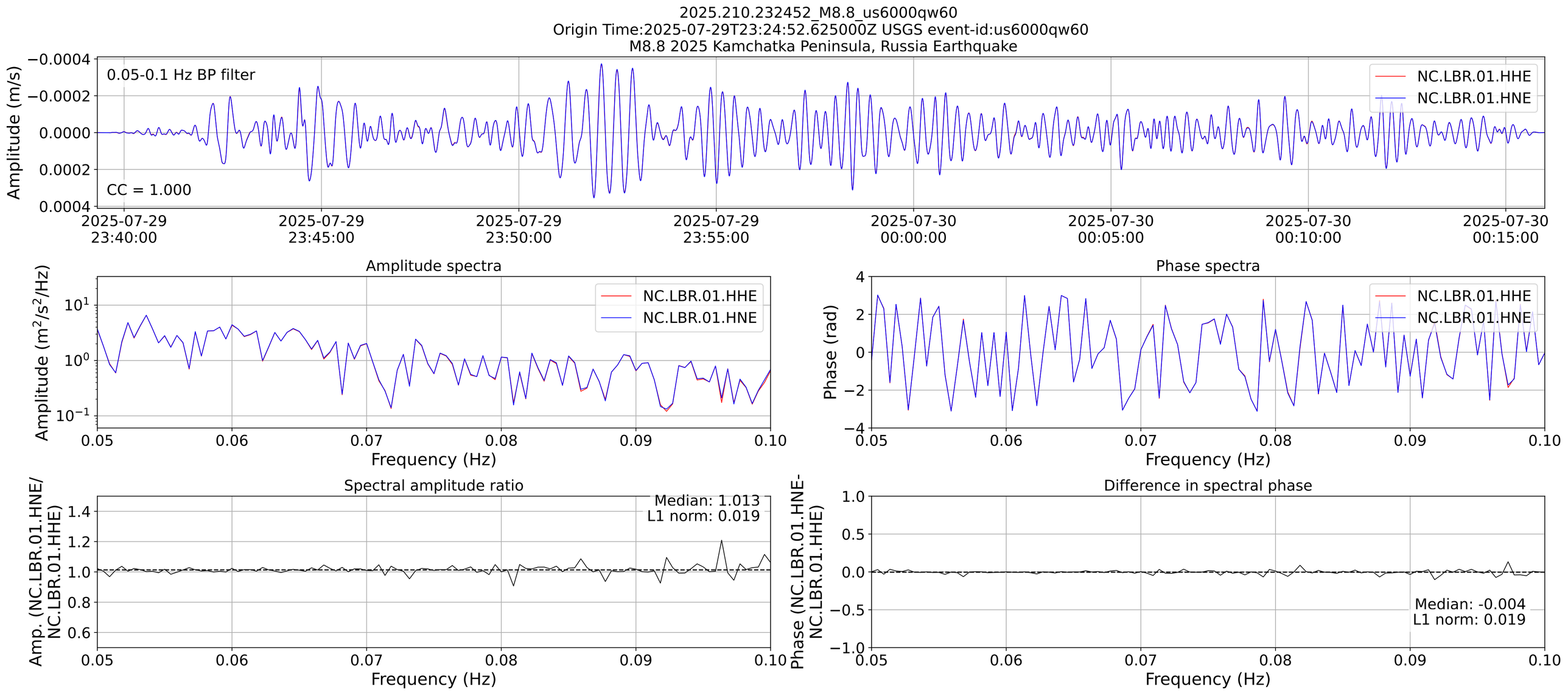

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.962
NC.LAB.01.HHN
NC.LAB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LAB.01.HNN/ NC.LAB.01.HHN)
Median: 1.097
L1 norm: 0.239
Difference in spectral phase
Phase (NC.LAB.01.HNN- NC.LAB.01.HHN)
Median: 0.005
L1 norm: 0.210

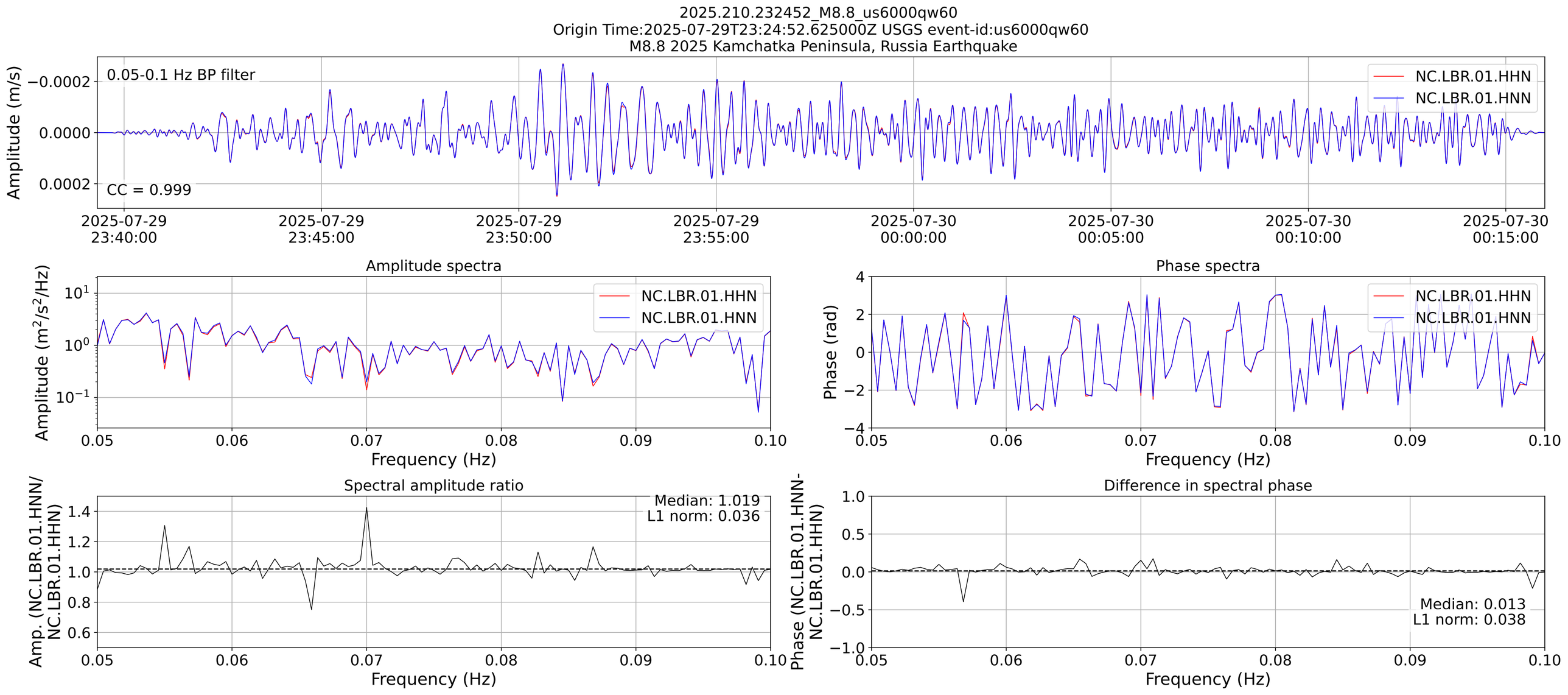

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LAB.01.HHZ
NC.LAB.01.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LAB.01.HNZ/ NC.LAB.01.HHZ)
Median: 1.023
L1 norm: 0.023
Difference in spectral phase
Phase (NC.LAB.01.HNZ-NC.LAB.01.HHZ)
Median: -0.001
L1 norm: 0.023

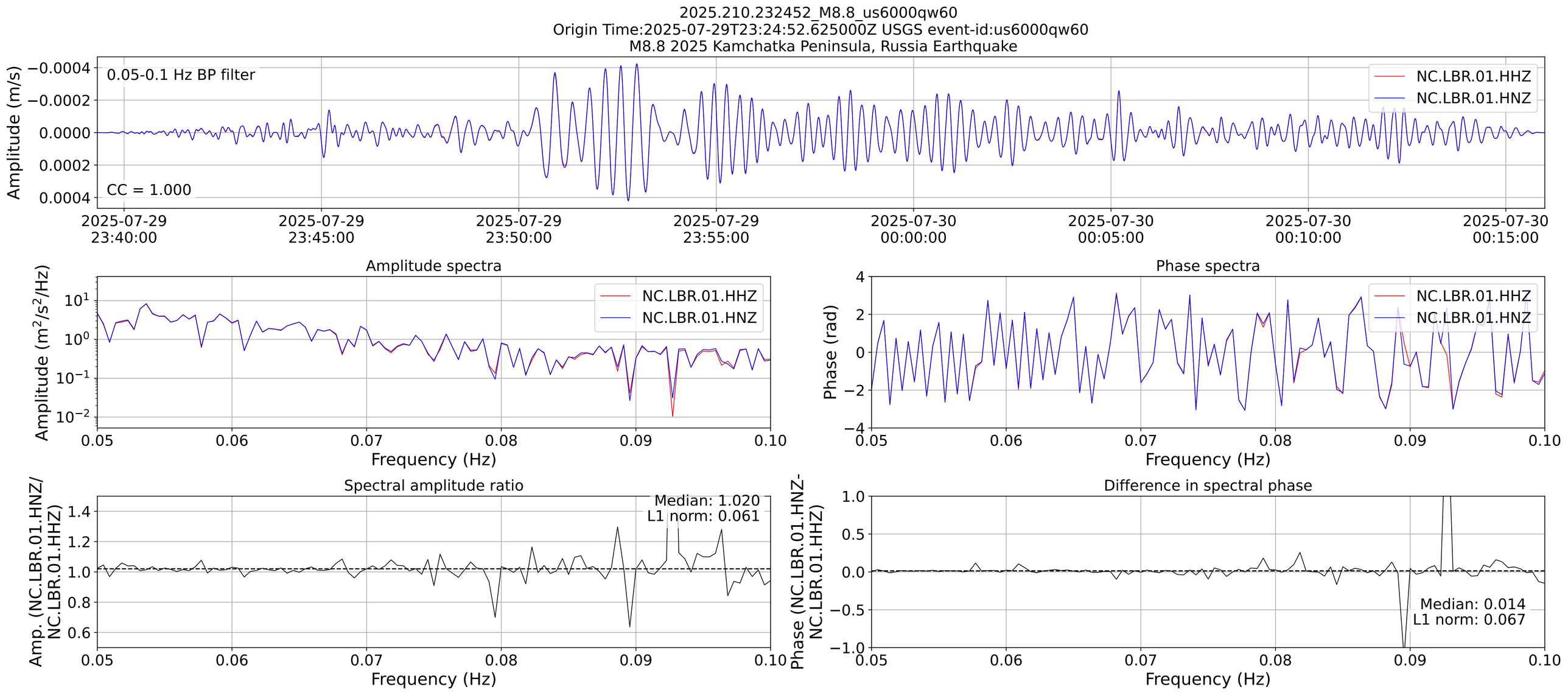

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LASB.01.HHE
NC.LASB.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LASB.01.HNE/ NC.LASB.01.HHE)
Median: 0.991
L1 norm: 0.018
Difference in spectral phase
Phase (NC.LASB.01.HNE- NC.LASB.01.HHE)
Median: -0.005
L1 norm: 0.020

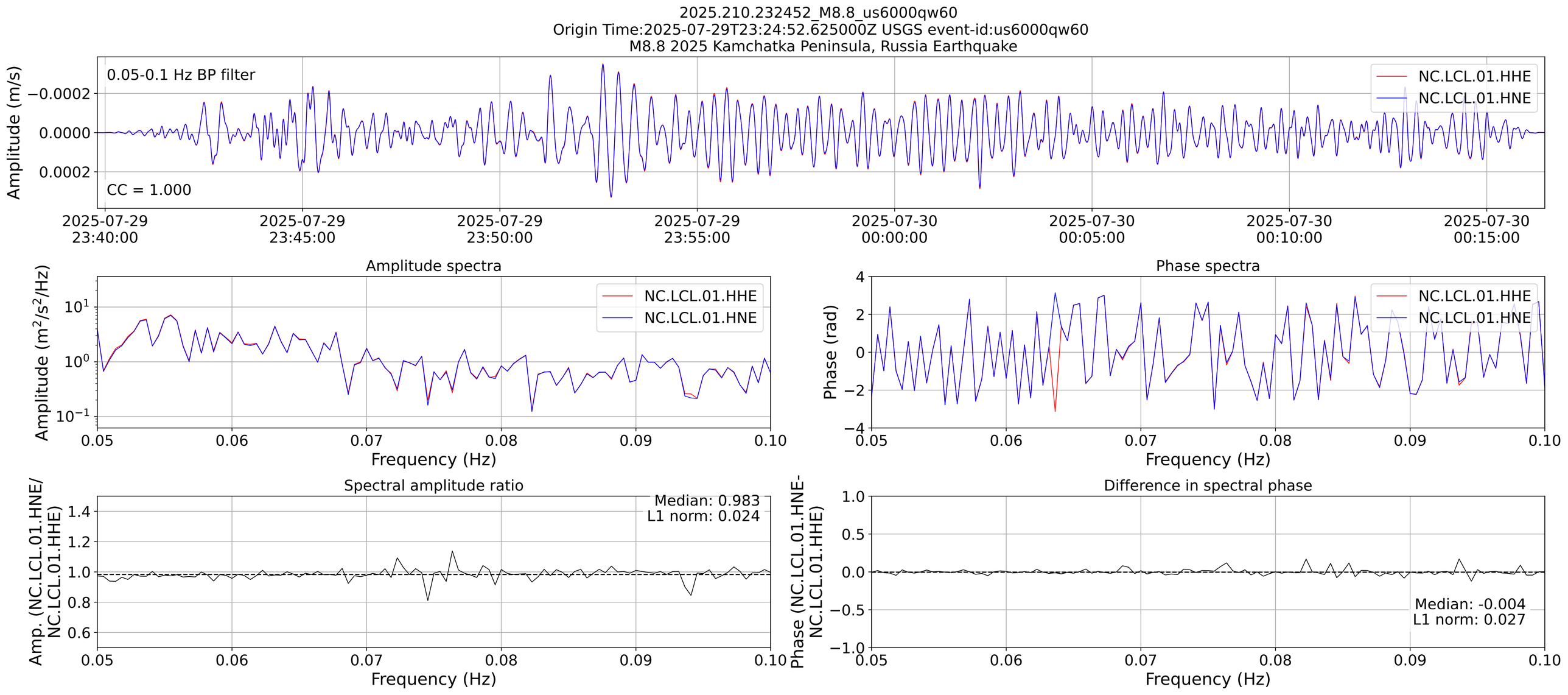

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LASB.01.HHN
NC.LASB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LASB.01.HNN/ NC.LASB.01.HHN)
Median: 1.001
L1 norm: 0.021
Difference in spectral phase
Phase (NC.LASB.01.HNN- NC.LASB.01.HHN)
Median: 0.003
L1 norm: 0.030

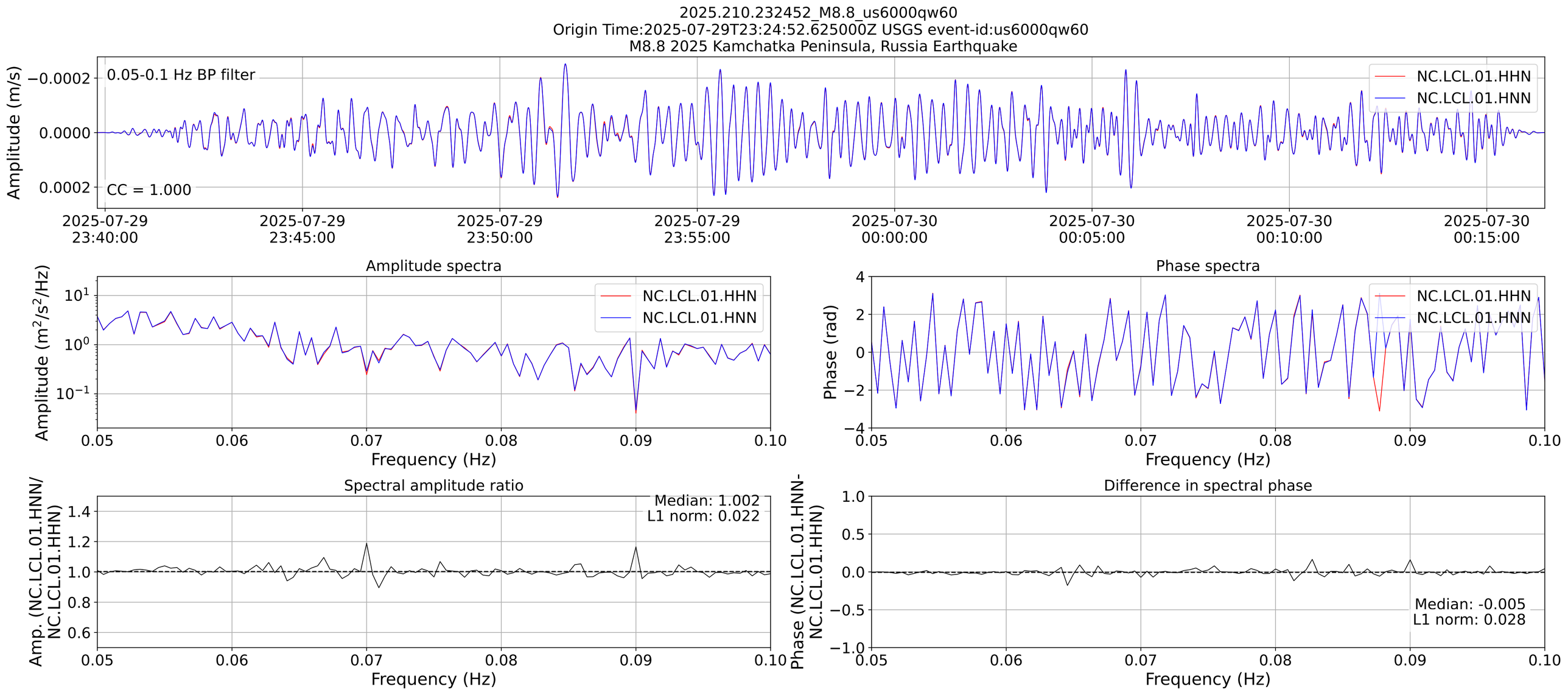

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LASB.01.HHZ
NC.LASB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LASB.01.HNZ/ NC.LASB.01.HHZ)
Median: 0.996
L1 norm: 0.021
Difference in spectral phase
Phase (NC.LASB.01.HNZ- NC.LASB.01.HHZ)
Median: -0.009
L1 norm: 0.021

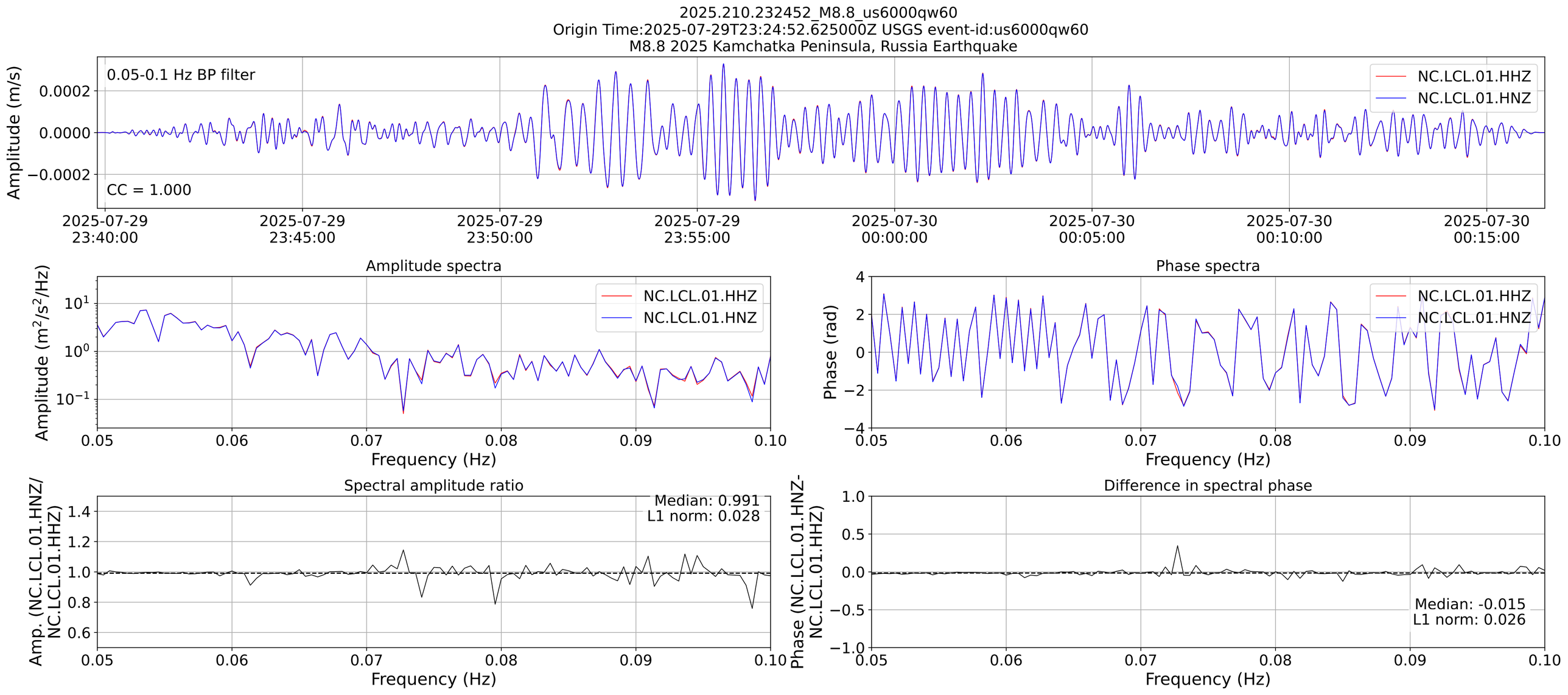

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LBR.01.HHE
NC.LBR.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LBR.01.HNE/ NC.LBR.01.HHE)
Median: 1.013
L1 norm: 0.019
Difference in spectral phase
Phase (NC.LBR.01.HNE- NC.LBR.01.HHE)
Median: -0.004
L1 norm: 0.019

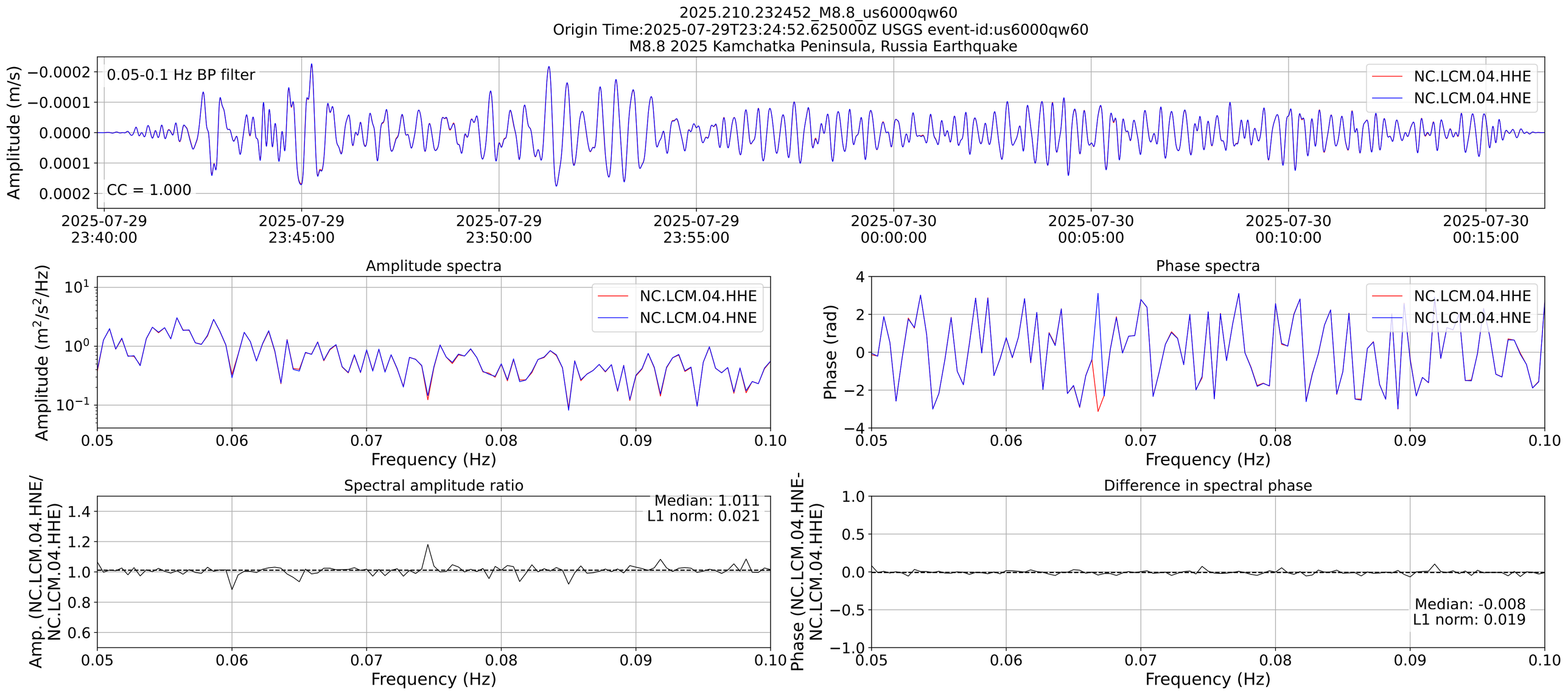

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LBR.01.HHN
NC.LBR.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LBR.01.HNN/ NC.LBR.01.HHN)
Median: 1.019
L1 norm: 0.036
Difference in spectral phase
Phase (NC.LBR.01.HNN- NC.LBR.01.HHN)
Median: 0.013
L1 norm: 0.038

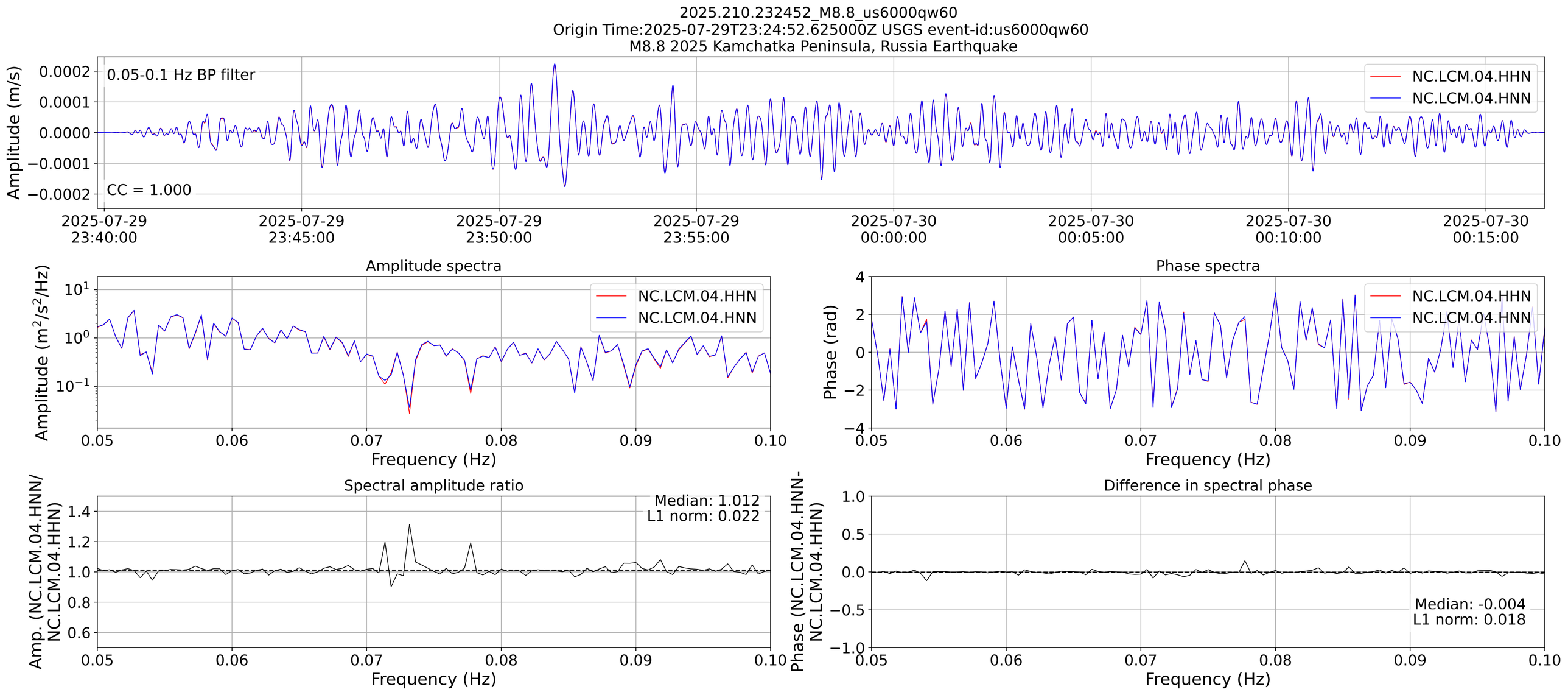

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LBR.01.HHZ
NC.LBR.01.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LBR.01.HNZ/ NC.LBR.01.HHZ)
Median: 1.020
L1 norm: 0.061
Difference in spectral phase
Phase (NC.LBR.01.HNZ- NC.LBR.01.HHZ)
Median: 0.014
L1 norm: 0.067

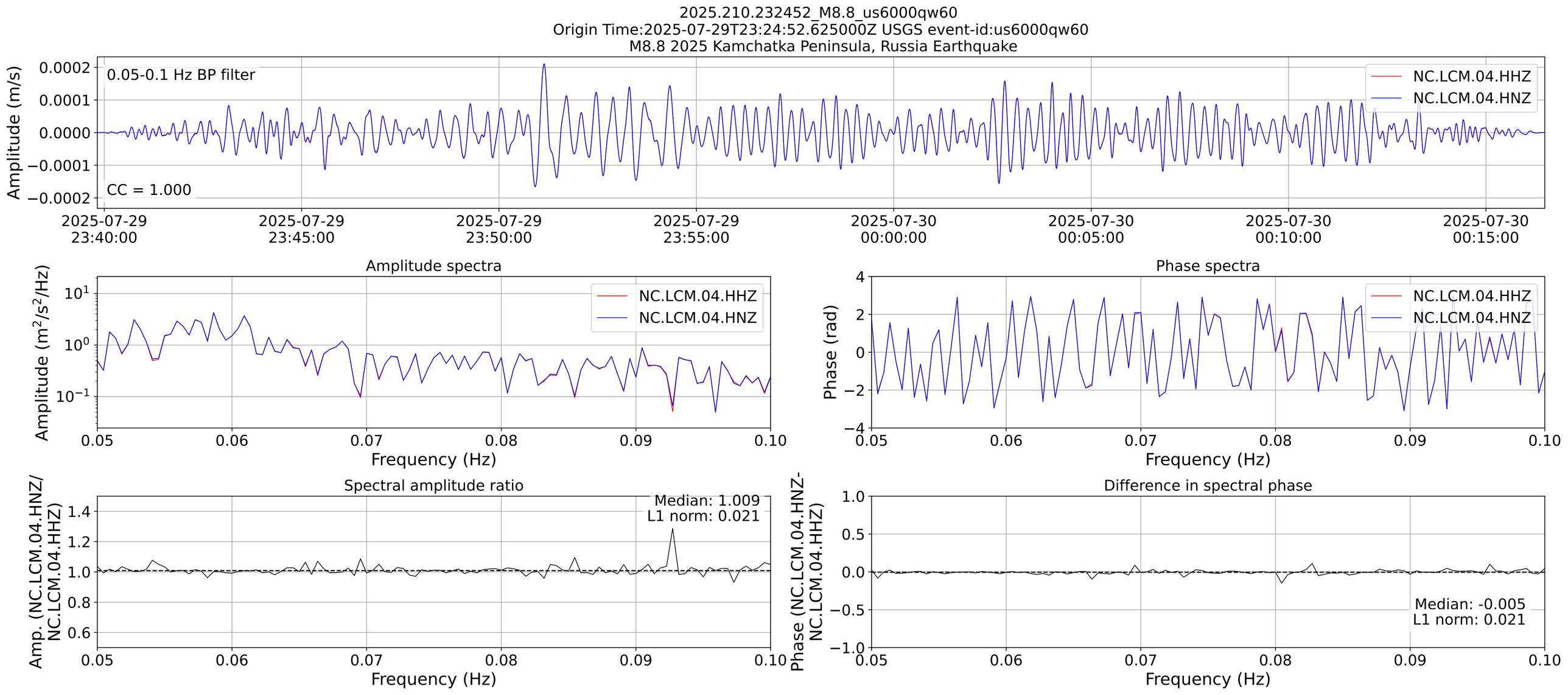

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCL.01.HHE
NC.LCL.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LCL.01.HNE/ NC.LCL.01.HHE)
Median: 0.983
L1 norm: 0.024
Difference in spectral phase
Phase (NC.LCL.01.HNE- NC.LCL.01.HHE)
Median: -0.004
L1 norm: 0.027

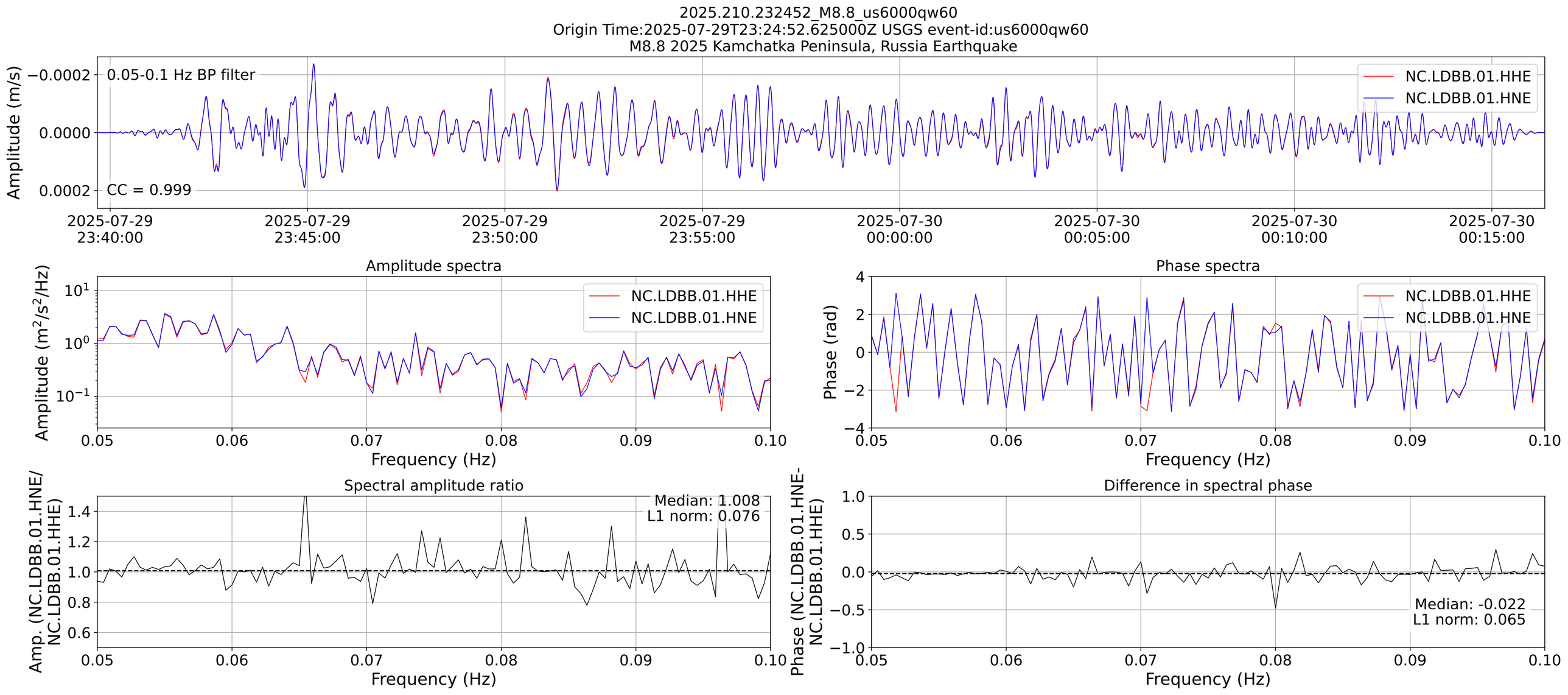

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCL.01.HHN
NC.LCL.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LCL.01.HNN/ NC.LCL.01.HHN)
Median: 1.002
L1 norm: 0.022
Difference in spectral phase
Phase (NC.LCL.01.HNN- NC.LCL.01.HHN)
Median: -0.005
L1 norm: 0.028

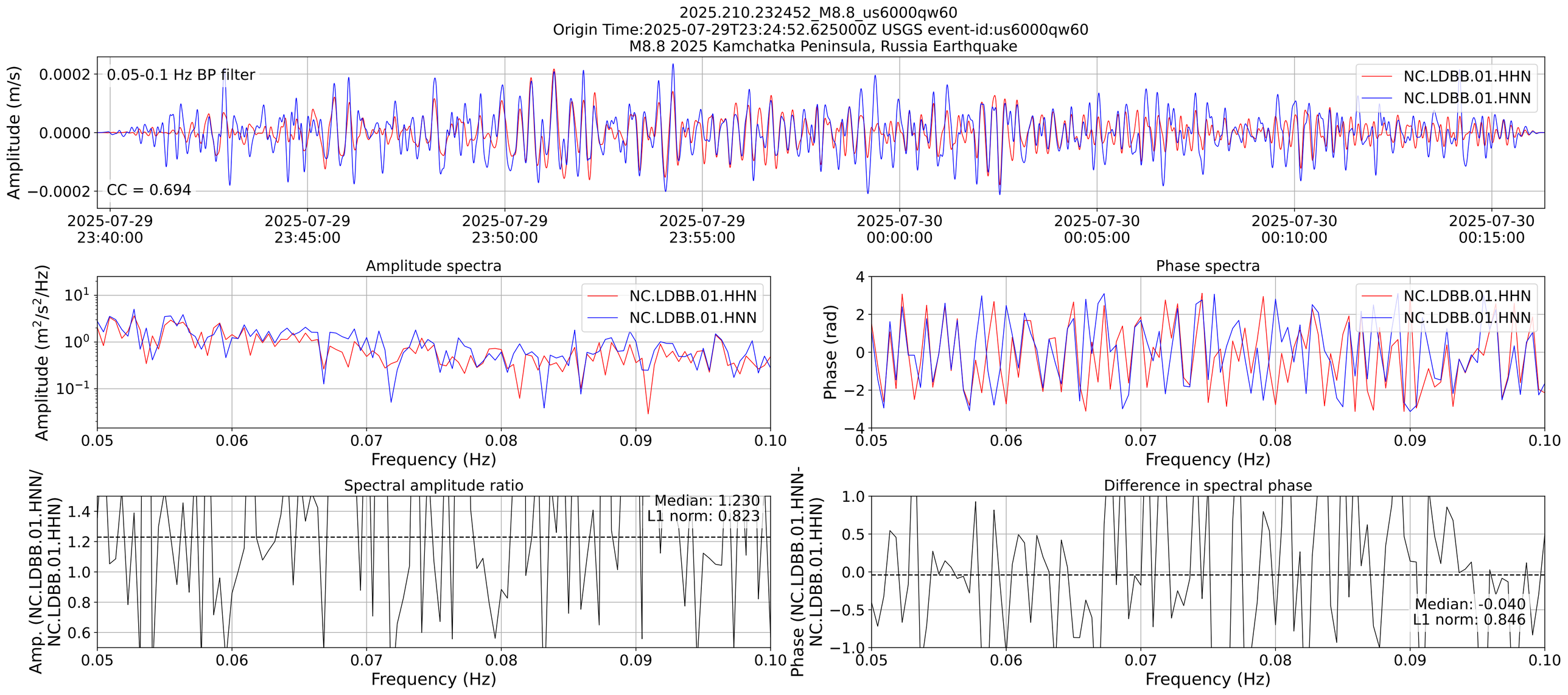

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCL.01.HHZ
NC.LCL.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LCL.01.HNZ/ NC.LCL.01.HHZ)
Median: 0.991
L1 norm: 0.028
Difference in spectral phase
Phase (NC.LCL.01.HNZ- NC.LCL.01.HHZ)
Median: -0.015
L1 norm: 0.026

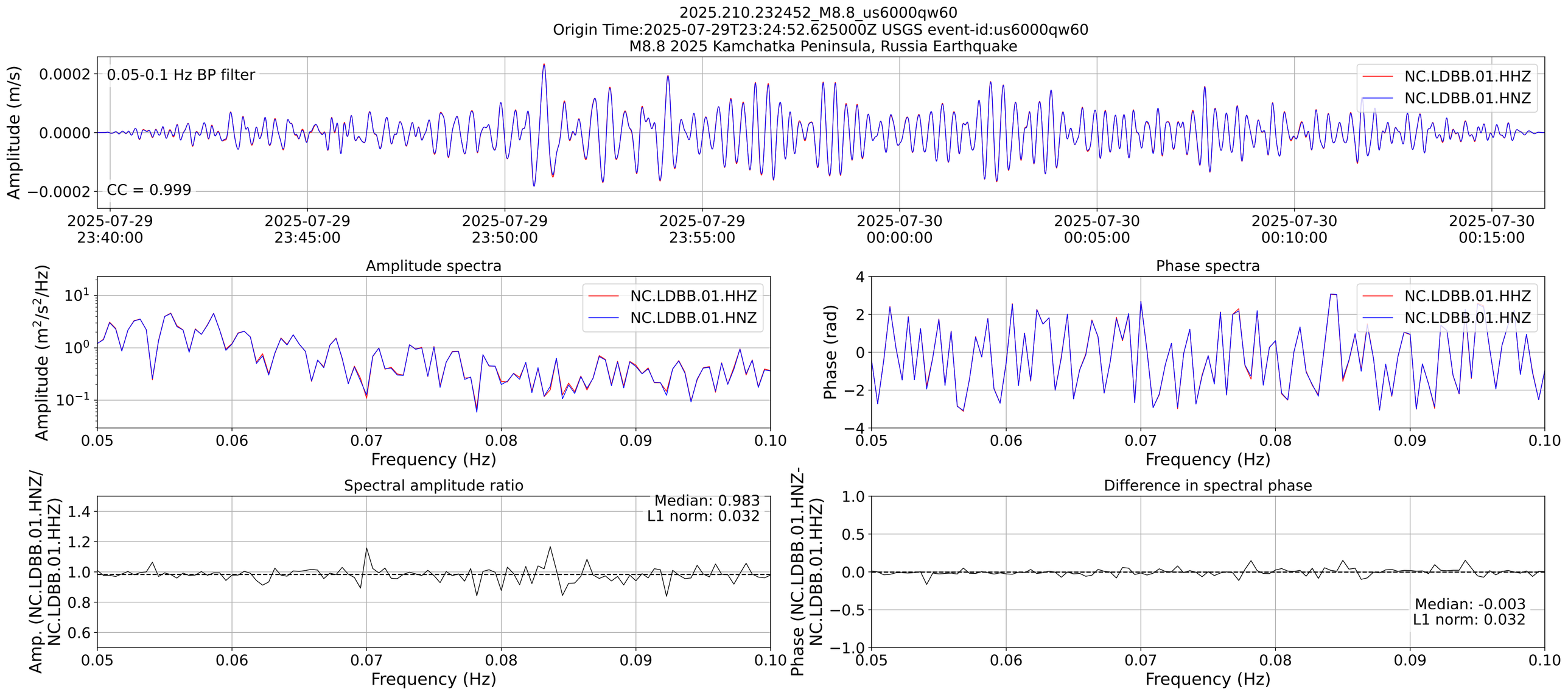

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCM.04.HHE
NC.LCM.04.HNE
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LCM.04.HNE/ NC.LCM.04.HHE)
Median: 1.011
L1 norm: 0.021
Difference in spectral phase
Phase (NC.LCM.04.HNE- NC.LCM.04.HHE)
Median: -0.008
L1 norm: 0.019

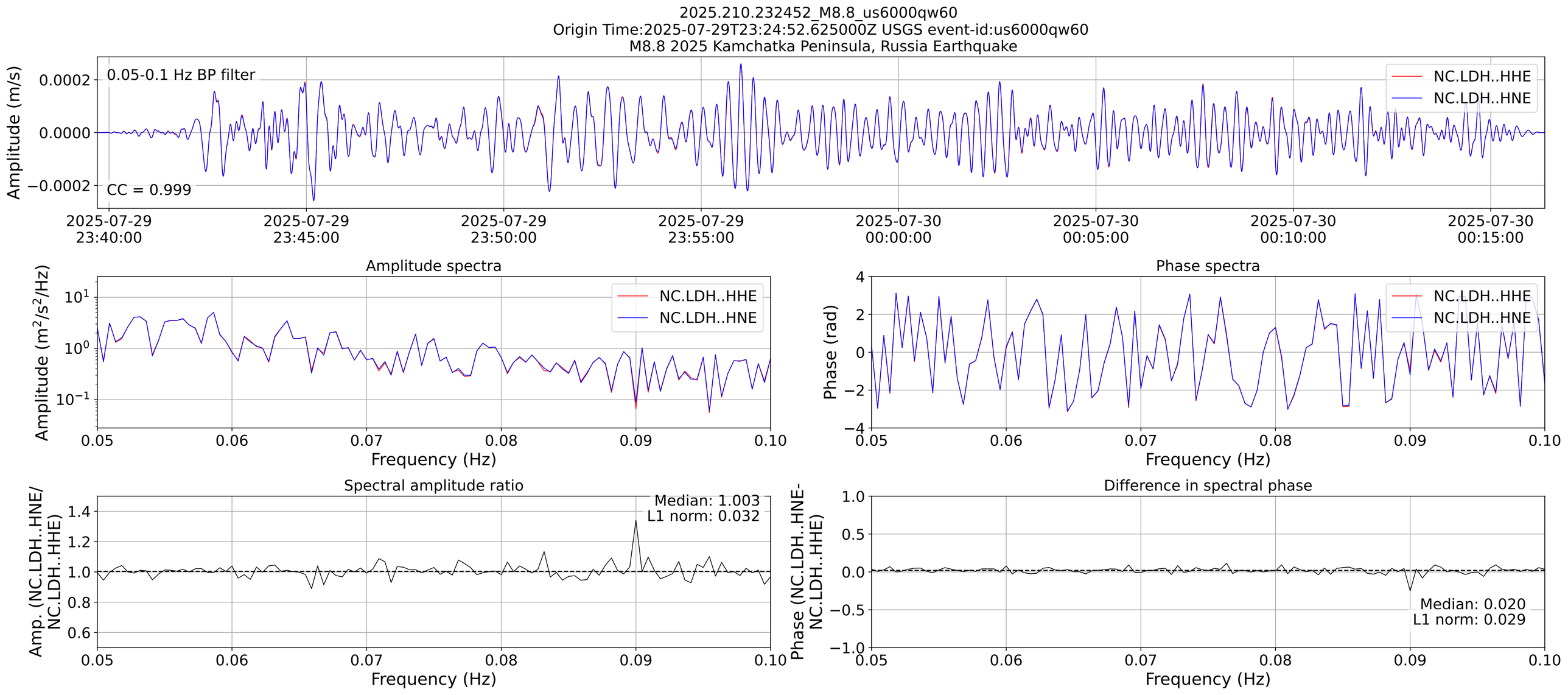

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCM.04.HHN
NC.LCM.04.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LCM.04.HNN/ NC.LCM.04.HHN)
Median: 1.012
L1 norm: 0.022
Difference in spectral phase
Phase (NC.LCM.04.HNN-NC.LCM.04.HHN)
Median: -0.004
L1 norm: 0.018

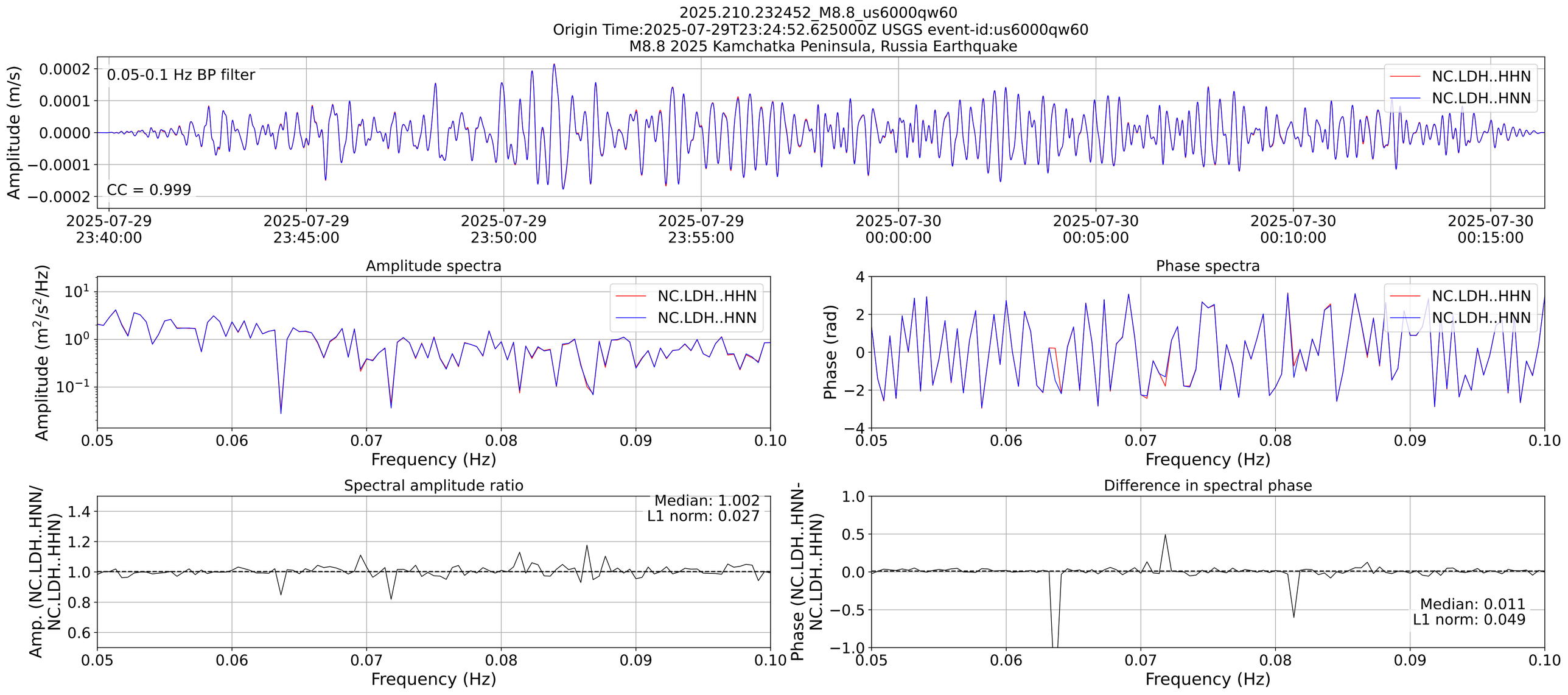

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LCM.04.HHZ
NC.LCM.04.HNZ
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LCM.04.HNZ/ NC.LCM.04.HHZ)
Median: 1.009
L1 norm: 0.021
Difference in spectral phase
Phase (NC.LCM.04.HNZ- NC.LCM.04.HHZ)
Median: -0.005
L1 norm: 0.021

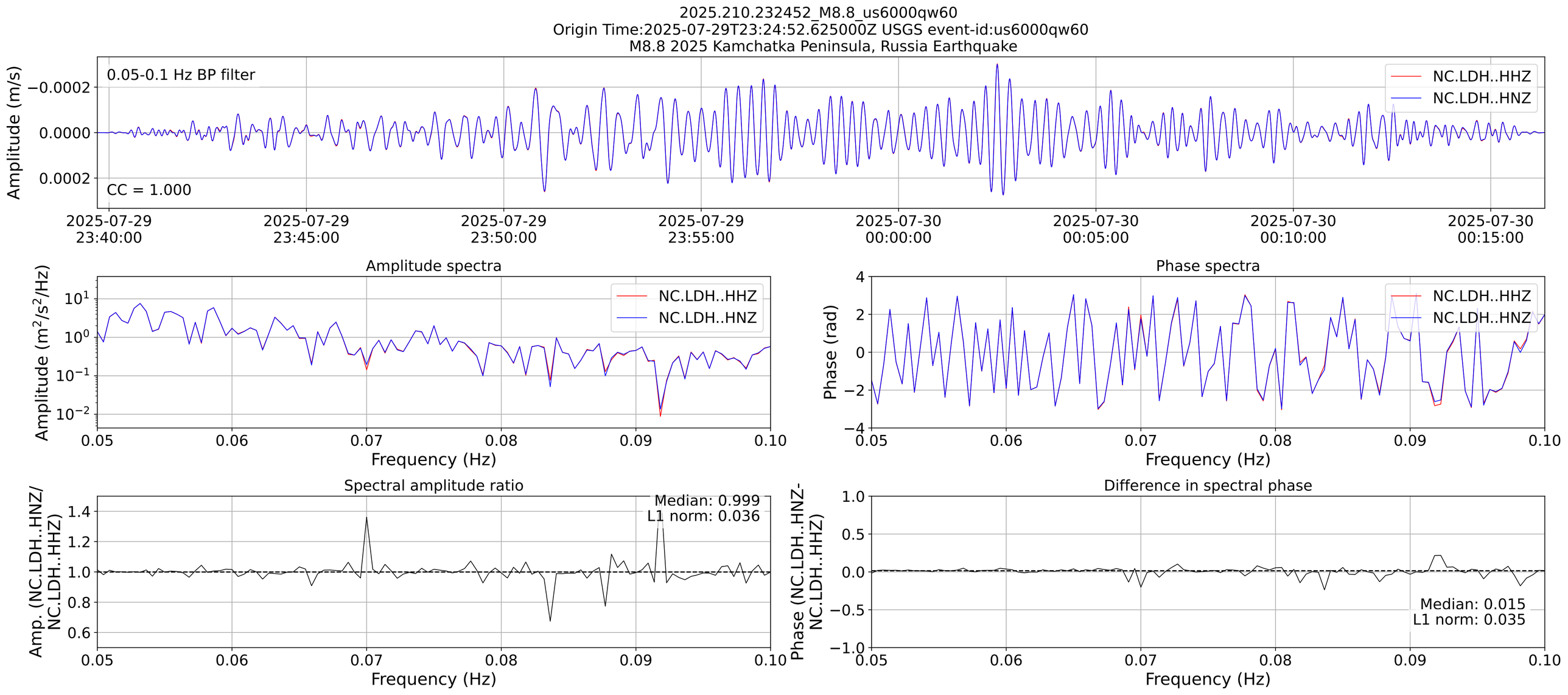

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LDBB.01.HHE
NC.LDBB.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LDBB.01.HNE/ NC.LDBB.01.HHE)
Median: 1.008
L1 norm: 0.076
Difference in spectral phase
Phase (NC.LDBB.01.HNE- NC.LDBB.01.HHE)
Median: -0.022
L1 norm: 0.065

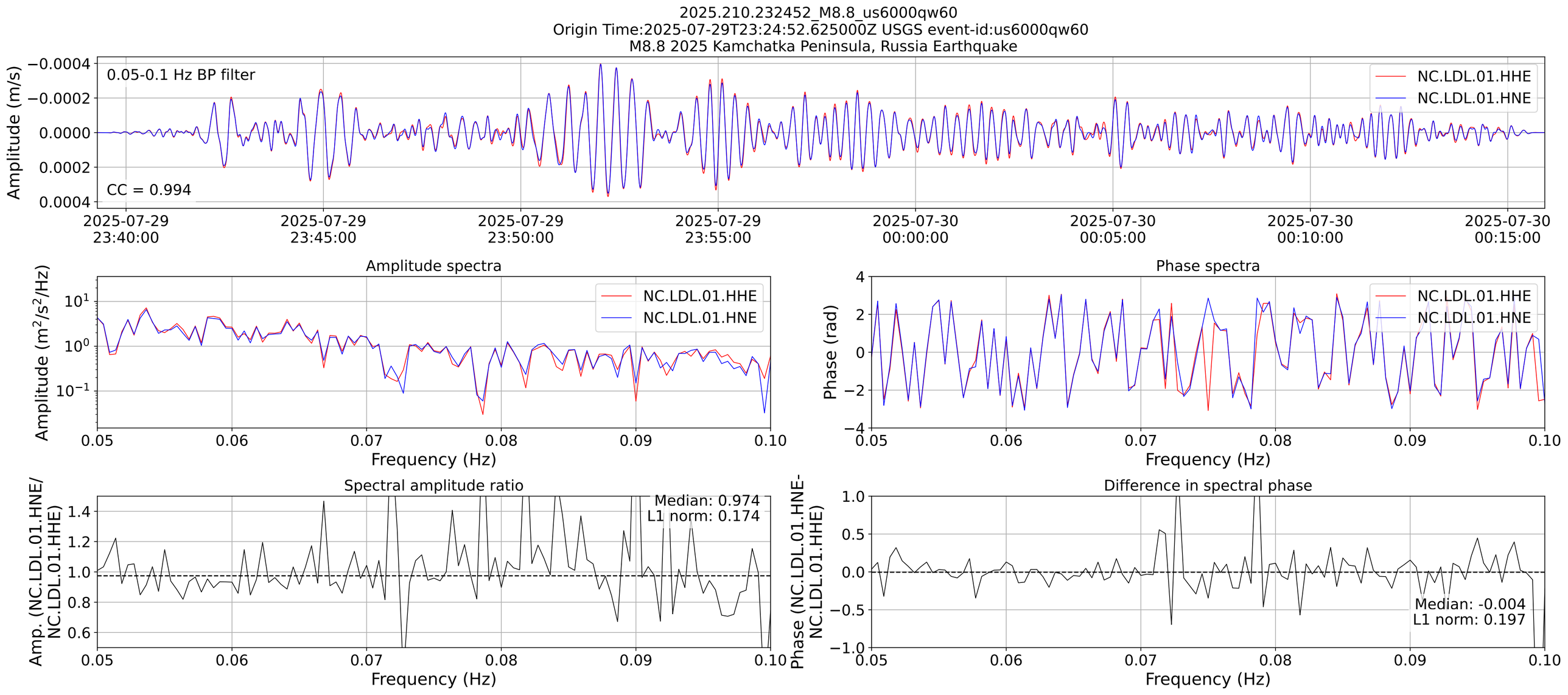

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.694
NC.LDBB.01.HHN
NC.LDBB.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LDBB.01.HNN/ NC.LDBB.01.HHN)
Median: 1.230
L1 norm: 0.823
Difference in spectral phase
Phase (NC.LDBB.01.HNN- NC.LDBB.01.HHN)
Median: -0.040
L1 norm: 0.846

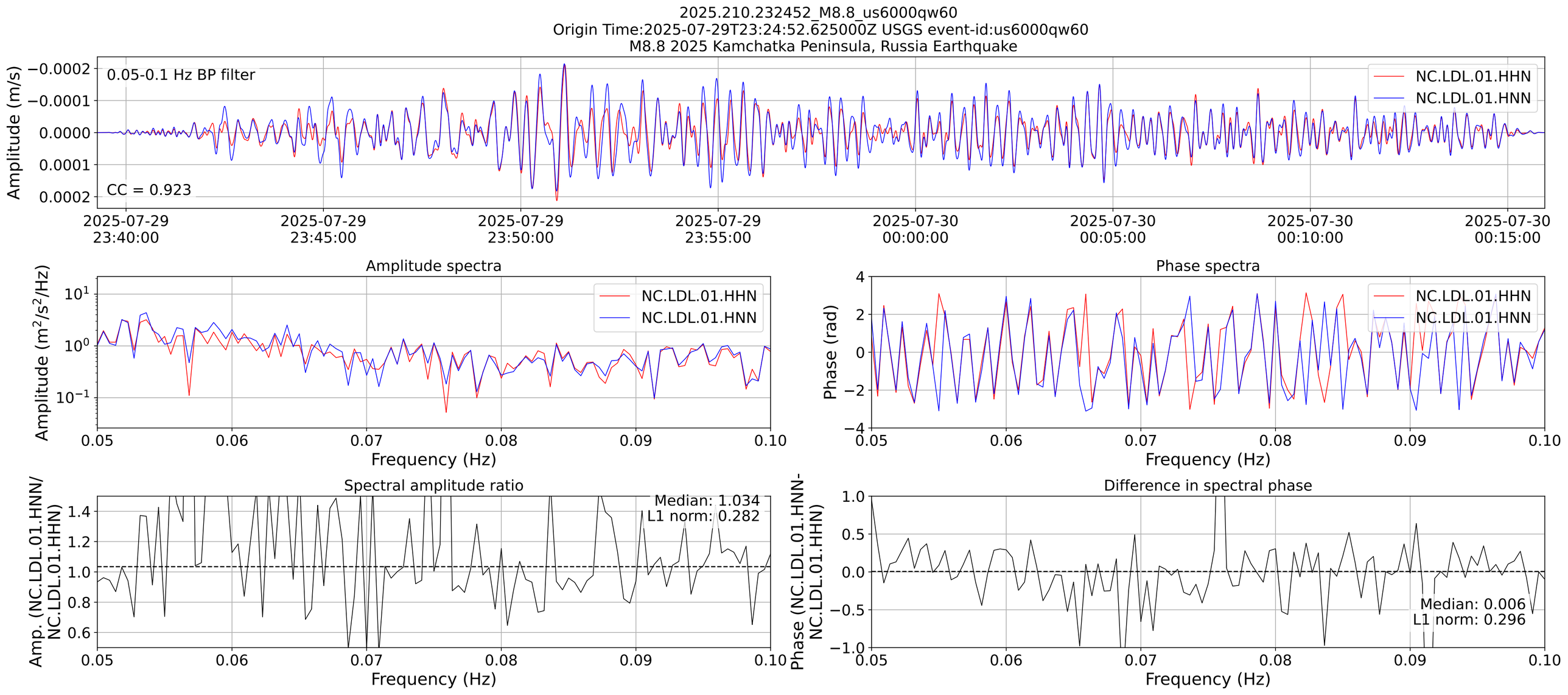

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LDBB.01.HHZ
NC.LDBB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LDBB.01.HNZ/ NC.LDBB.01.HHZ)
Median: 0.983
L1 norm: 0.032
Difference in spectral phase
Phase (NC.LDBB.01.HNZ- NC.LDBB.01.HHZ)
Median: -0.003
L1 norm: 0.032

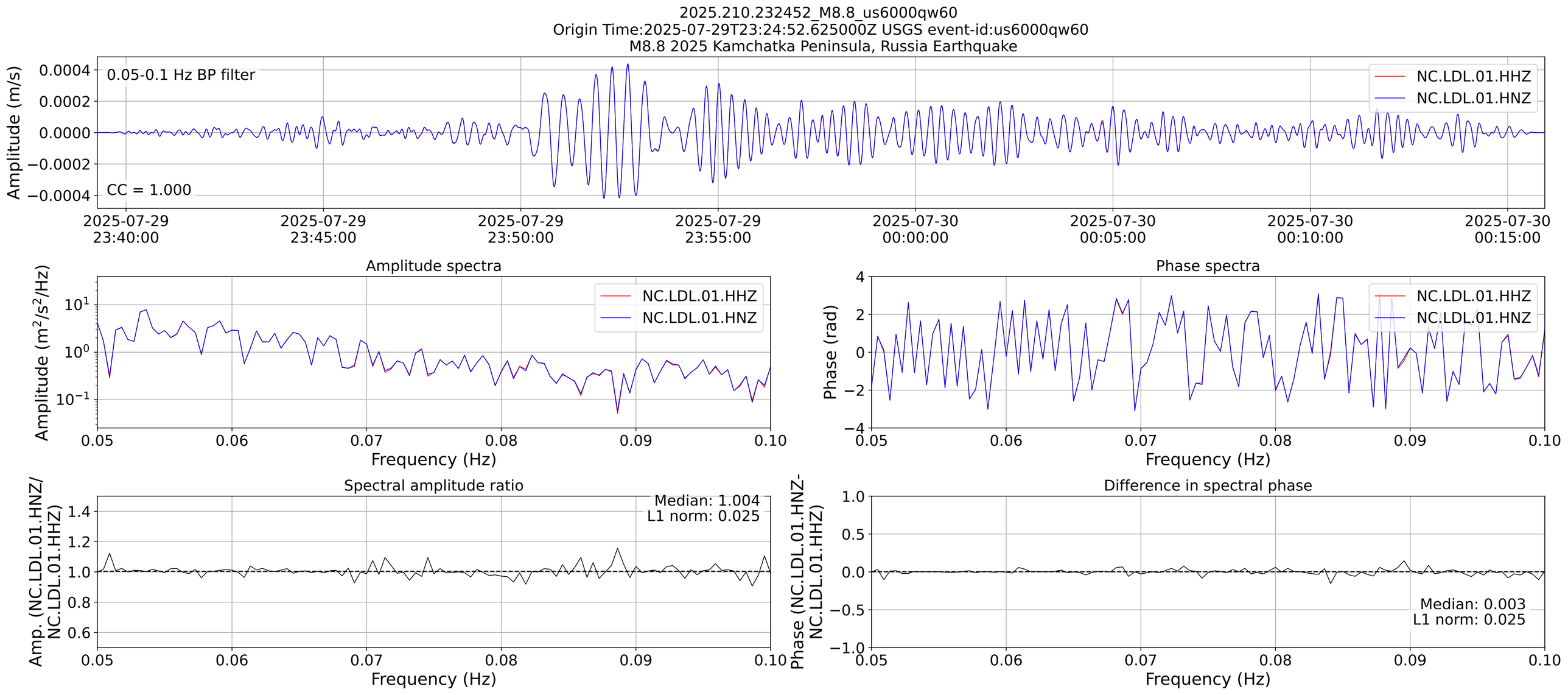

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LDH..HHE
NC.LDH..HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LDH..HNE/ NC.LDH..HHE)
Median: 1.003
L1 norm: 0.032
Difference in spectral phase
Phase (NC.LDH..HNE- NC.LDH..HHE)
Median: 0.020
L1 norm: 0.029

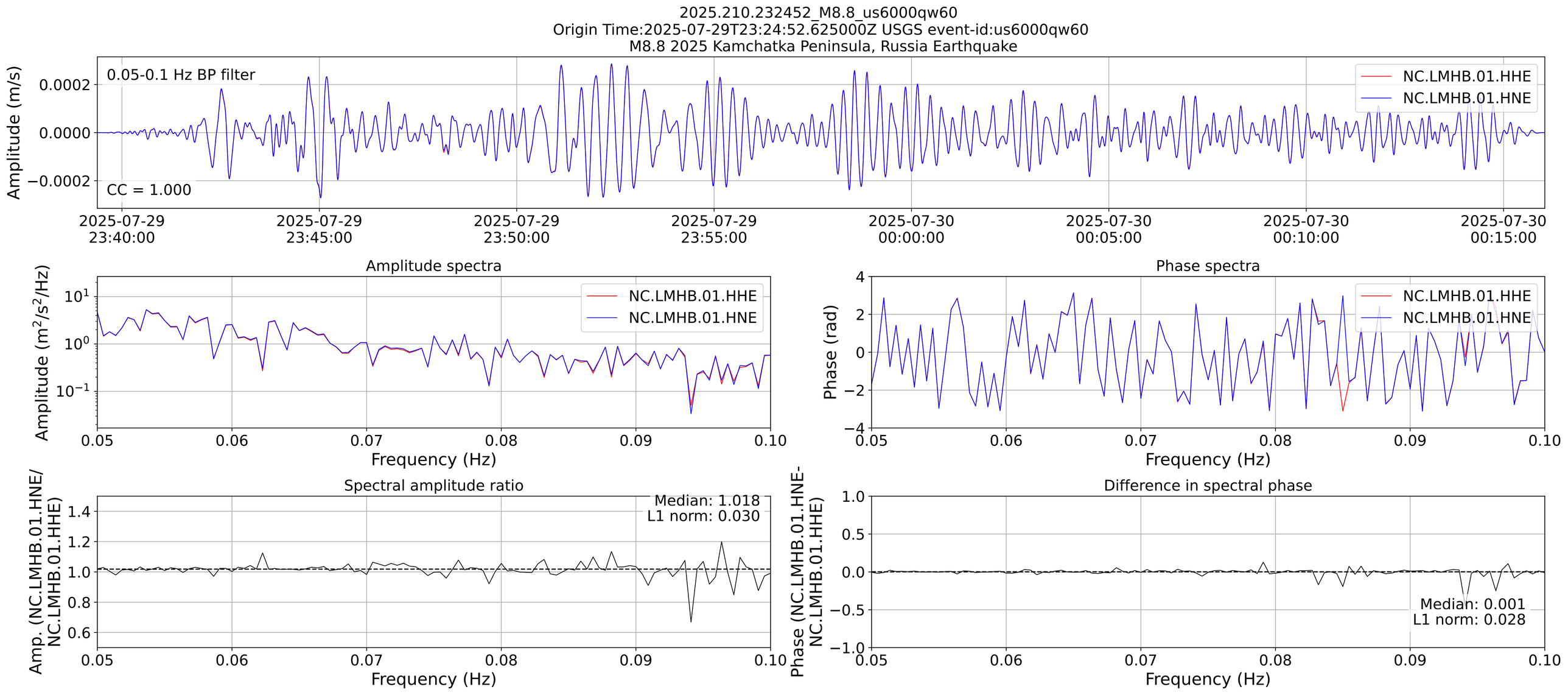

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LDH..HHN
NC.LDH..HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LDH..HNN/ NC.LDH..HHN)
Median: 1.002
L1 norm: 0.027
Difference in spectral phase
Phase (NC.LDH..HNN- NC.LDH..HHN)
Median: 0.011
L1 norm: 0.049

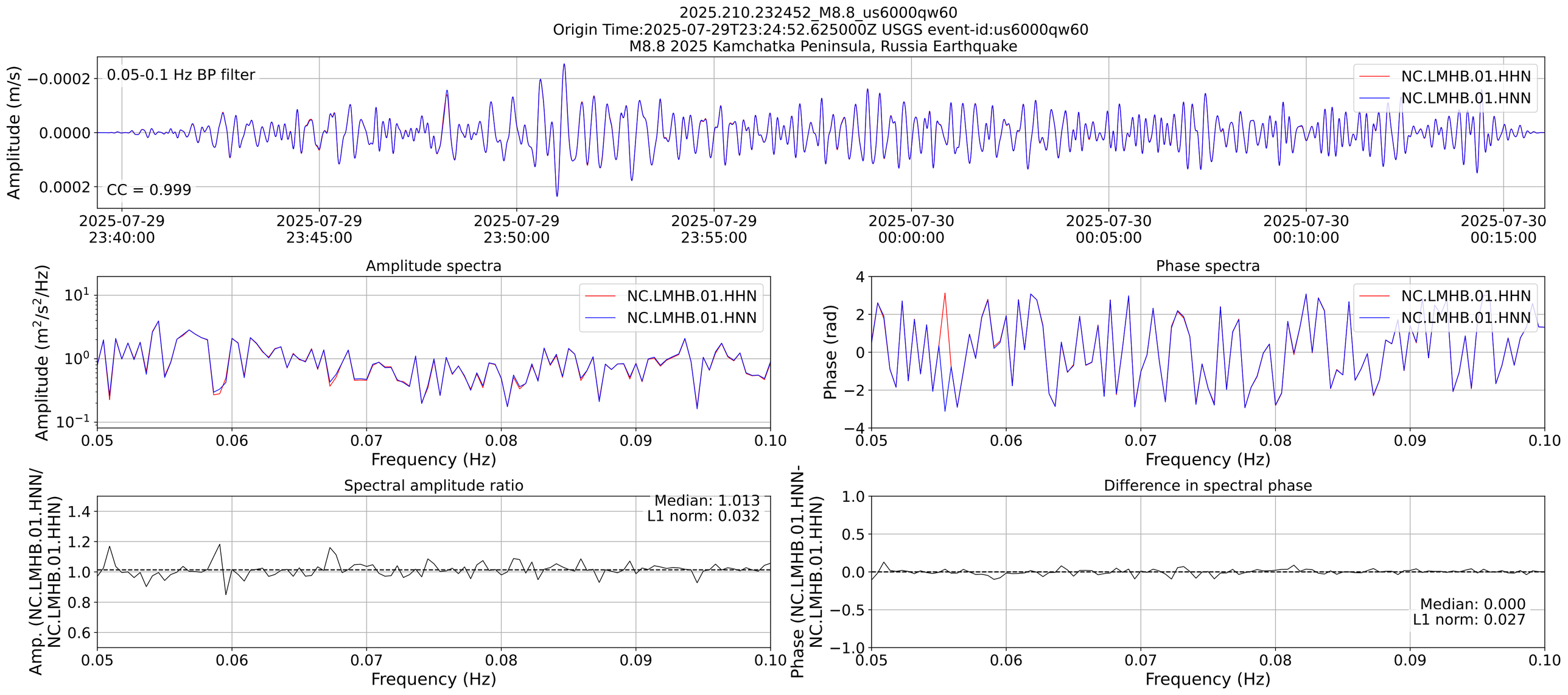

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LDH..HHZ
NC.LDH..HNZ
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LDH..HNZ/ NC.LDH..HHZ)
Median: 0.999
L1 norm: 0.036
Difference in spectral phase
Phase (NC.LDH..HNZ- NC.LDH..HHZ)
Median: 0.015
L1 norm: 0.035

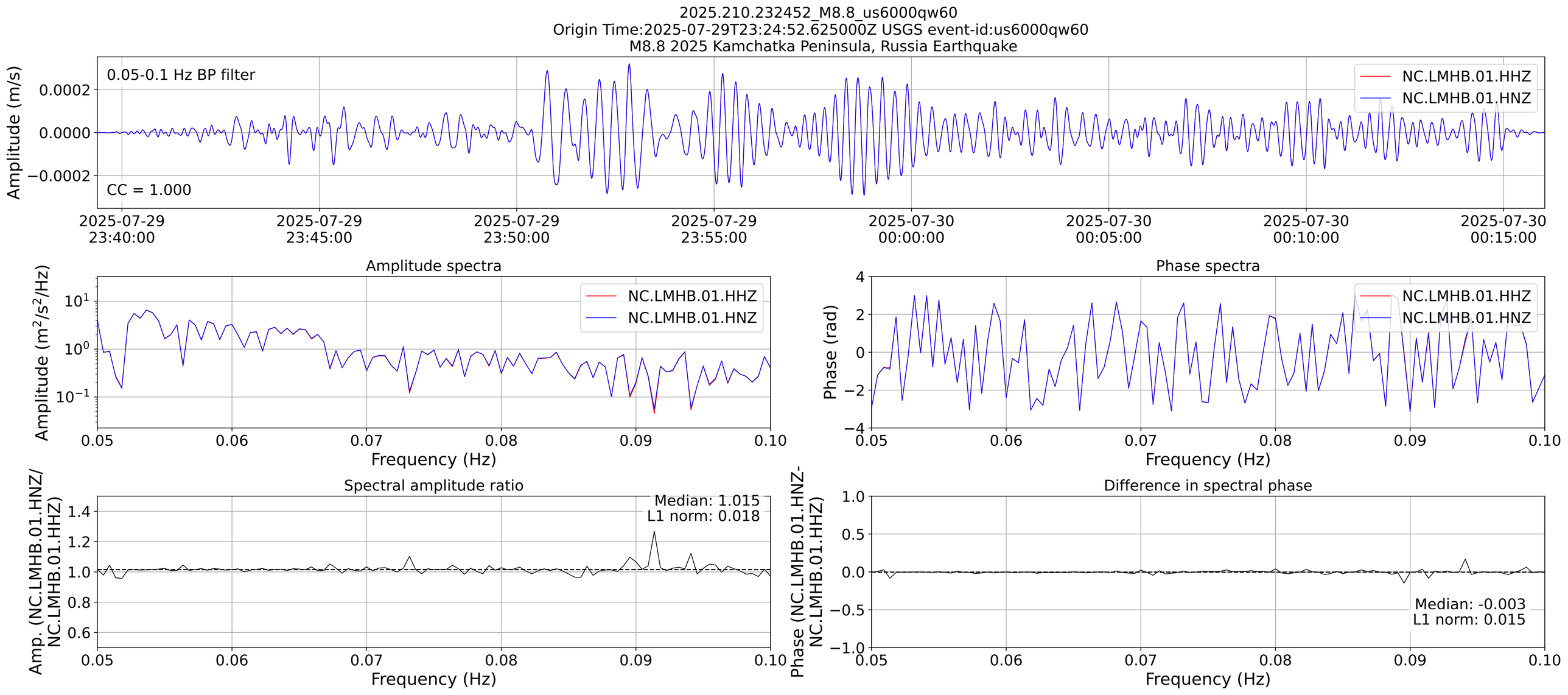

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
NC.LDL.01.HHE
NC.LDL.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LDL.01.HNE/ NC.LDL.01.HHE)
Median: 0.974
L1 norm: 0.174
Difference in spectral phase
Phase (NC.LDL.01.HNE- NC.LDL.01.HHE)
Median: -0.004
L1 norm: 0.197

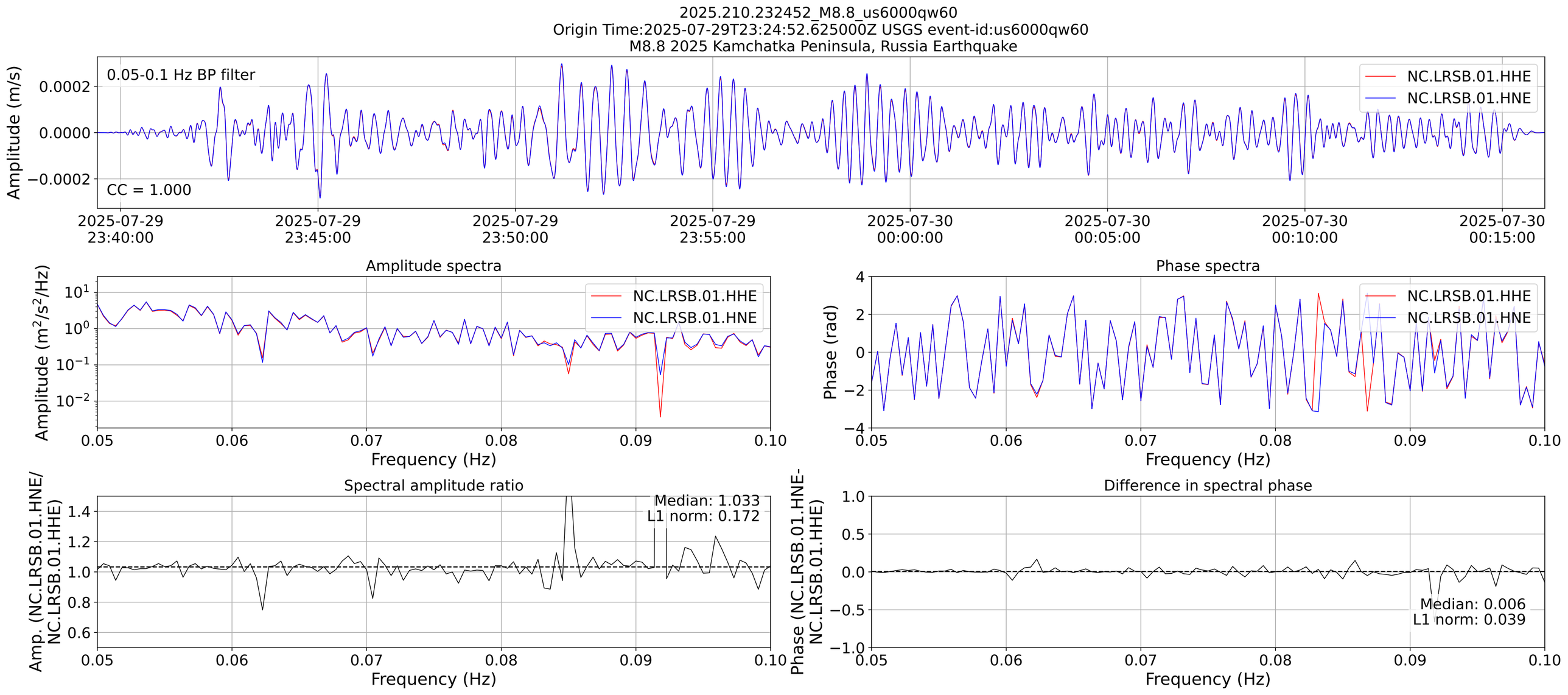

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.923
NC.LDL.01.HHN
NC.LDL.01.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LDL.01.HNN/ NC.LDL.01.HHN)
Median: 1.034
L1 norm: 0.282
Difference in spectral phase
Phase (NC.LDL.01.HNN- NC.LDL.01.HHN)
Median: 0.006
L1 norm: 0.296

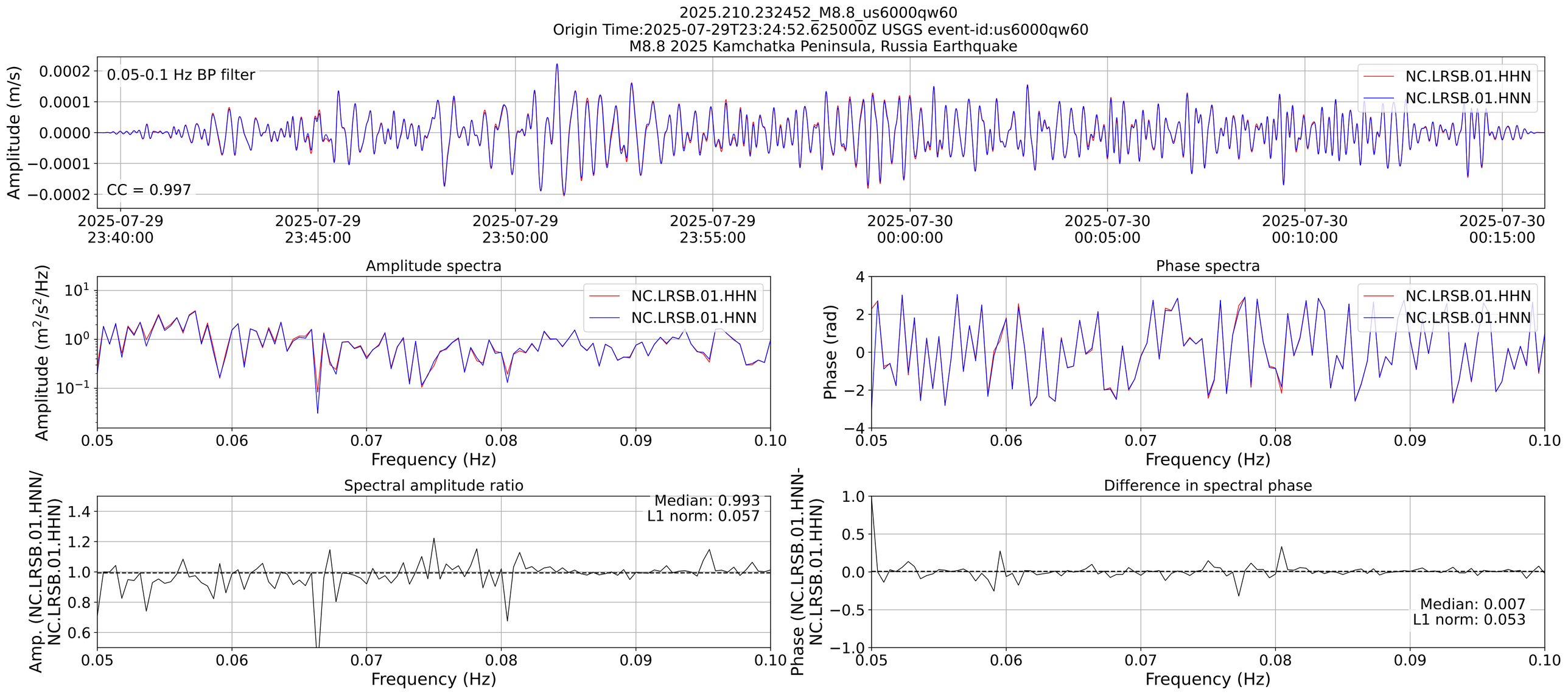

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LDL.01.HHZ
NC.LDL.01.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LDL.01.HNZ/ NC.LDL.01.HHZ)
Median: 1.004
L1 norm: 0.025
Difference in spectral phase
Phase (NC.LDL.01.HNZ- NC.LDL.01.HHZ)
Median: 0.003
L1 norm: 0.025

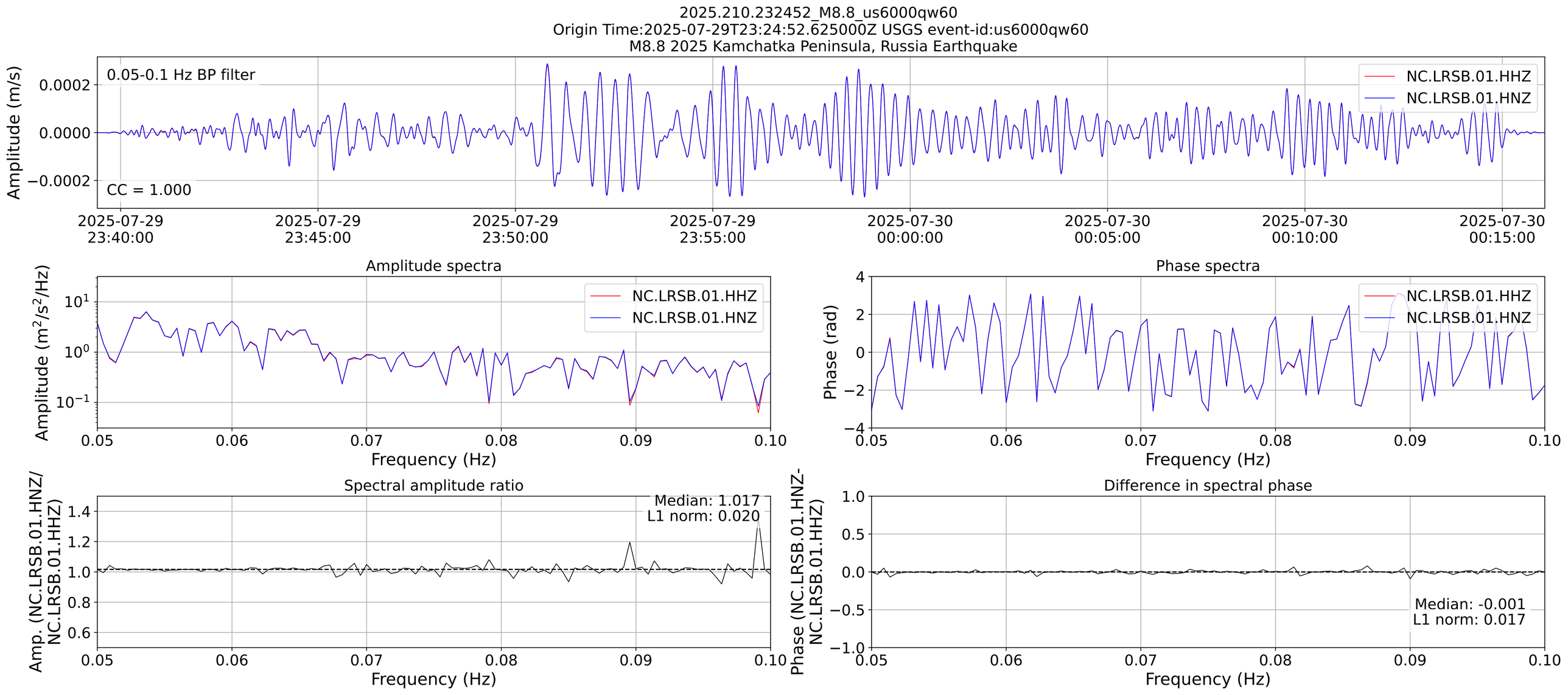

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LMHB.01.HHE
NC.LMHB.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LMHB.01.HNE/ NC.LMHB.01.HHE)
Median: 1.018
L1 norm: 0.030
Difference in spectral phase
Phase (NC.LMHB.01.HNE- NC.LMHB.01.HHE)
Median: 0.001
L1 norm: 0.028

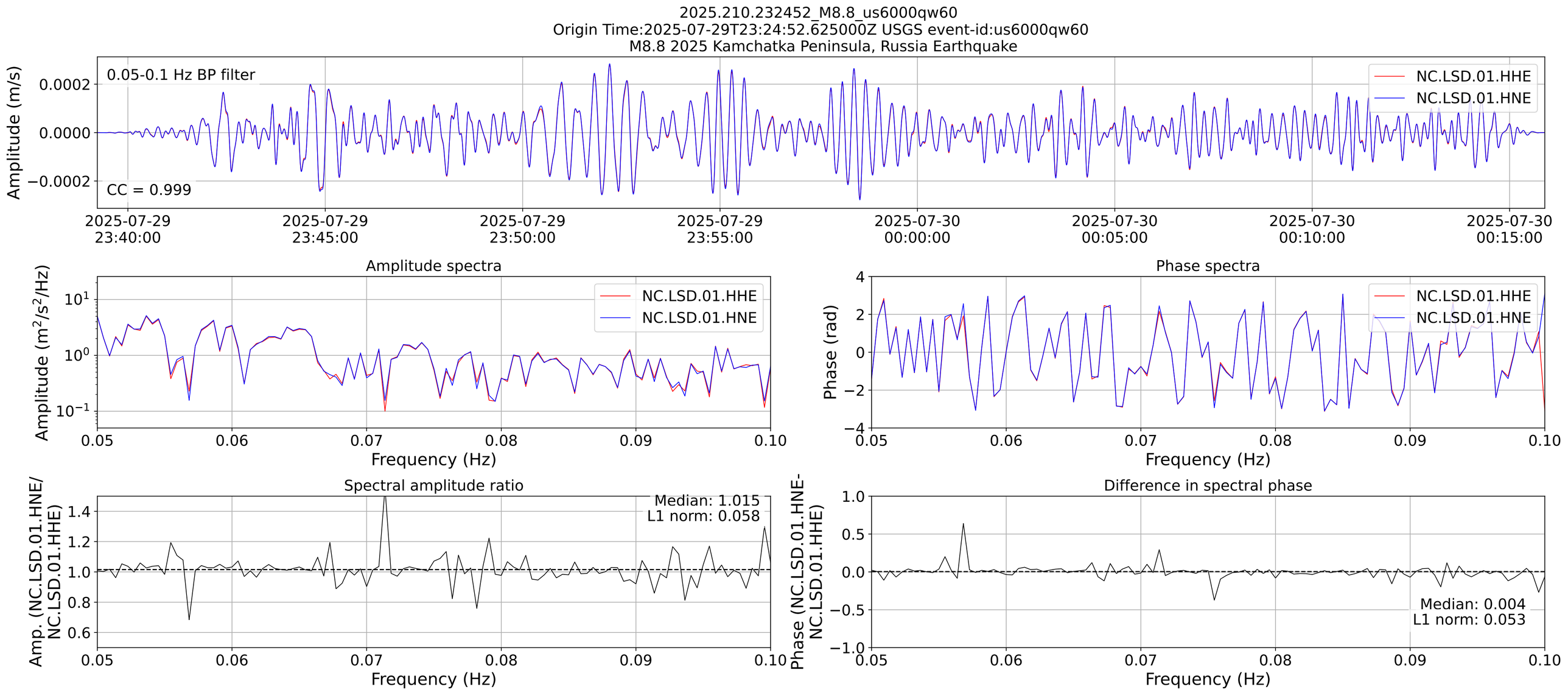

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LMHB.01.HHN
NC.LMHB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LMHB.01.HNN/ NC.LMHB.01.HHN)
Median: 1.013
L1 norm: 0.032
Difference in spectral phase
Phase (NC.LMHB.01.HNN- NC.LMHB.01.HHN)
Median: 0.000
L1 norm: 0.027

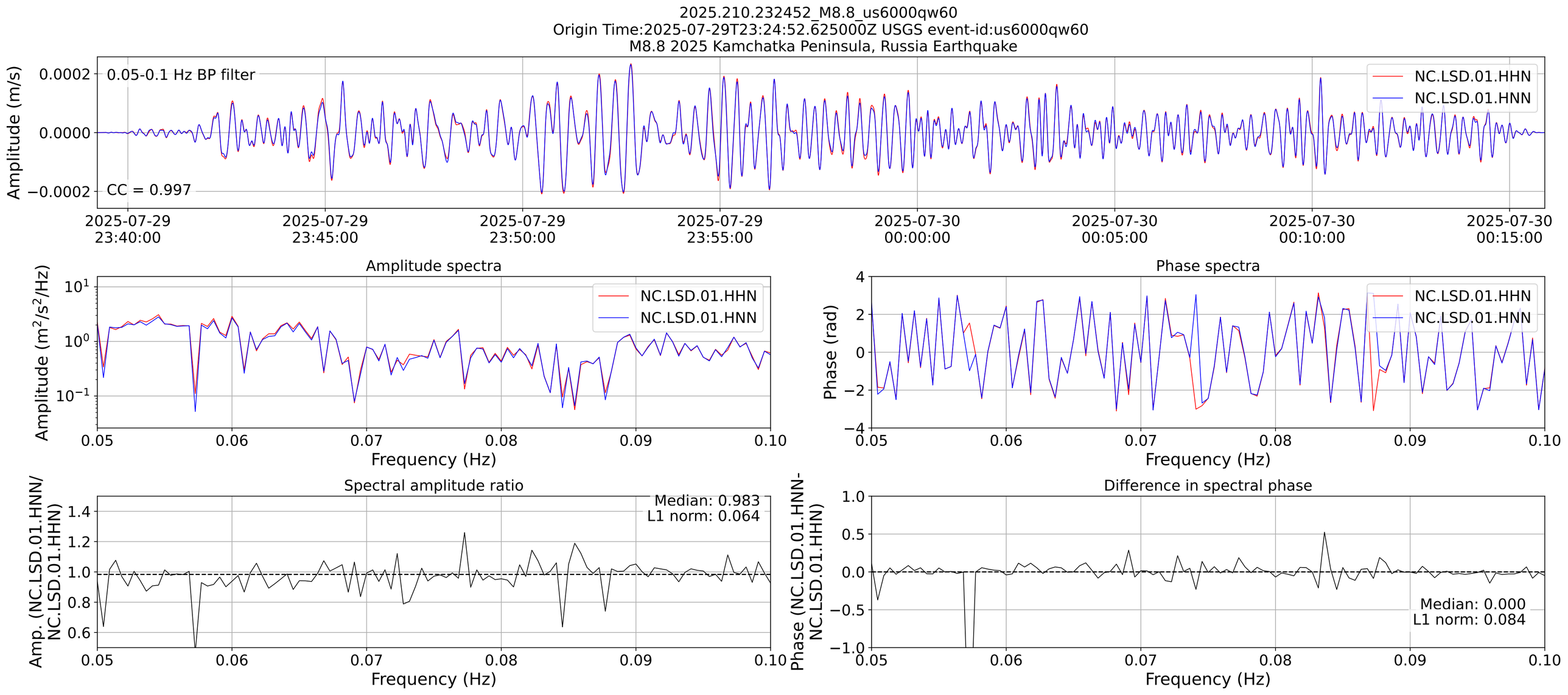

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LMHB.01.HHZ
NC.LMHB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LMHB.01.HNZ/ NC.LMHB.01.HHZ)
Median: 1.015
L1 norm: 0.018
Difference in spectral phase
Phase (NC.LMHB.01.HNZ- NC.LMHB.01.HHZ)
Median: -0.003
L1 norm: 0.015

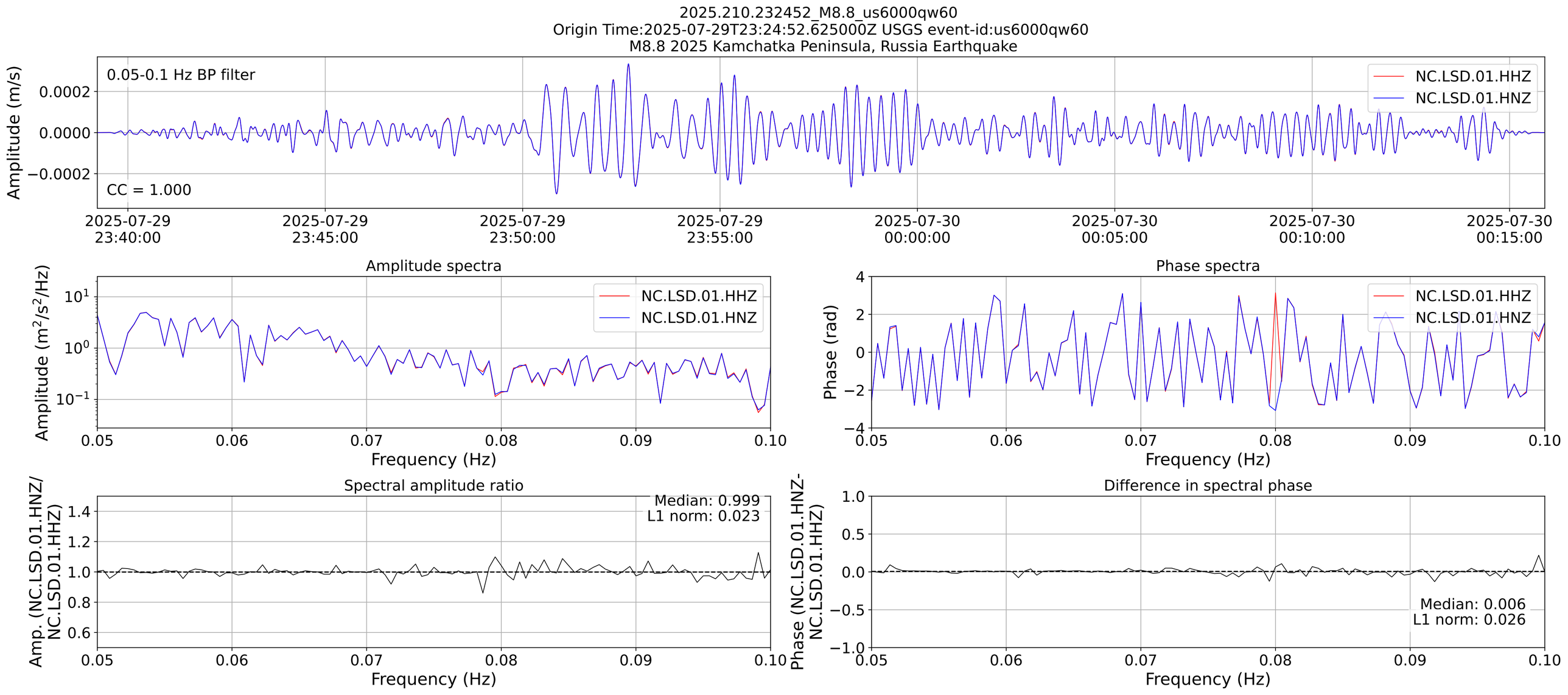

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LRSB.01.HHE
NC.LRSB.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LRSB.01.HNE/ NC.LRSB.01.HHE)
Median: 1.033
L1 norm: 0.172
Difference in spectral phase
Phase (NC.LRSB.01.HNE- NC.LRSB.01.HHE)
Median: 0.006
L1 norm: 0.039

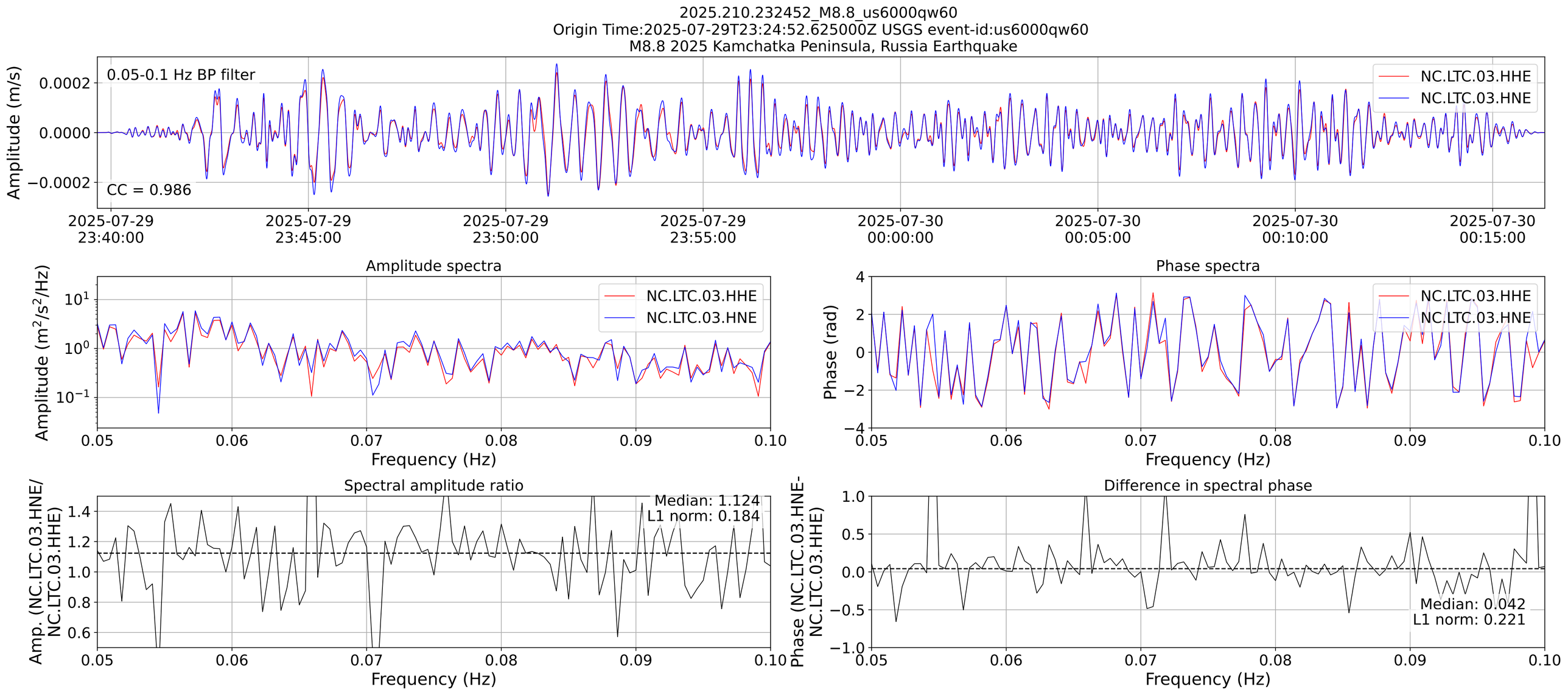

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.LRSB.01.HHN
NC.LRSB.01.HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.LRSB.01.HNN/ NC.LRSB.01.HHN)
Median: 0.993
L1 norm: 0.057
Difference in spectral phase
Phase (NC.LRSB.01.HNN- NC.LRSB.01.HHN)
Median: 0.007
L1 norm: 0.053

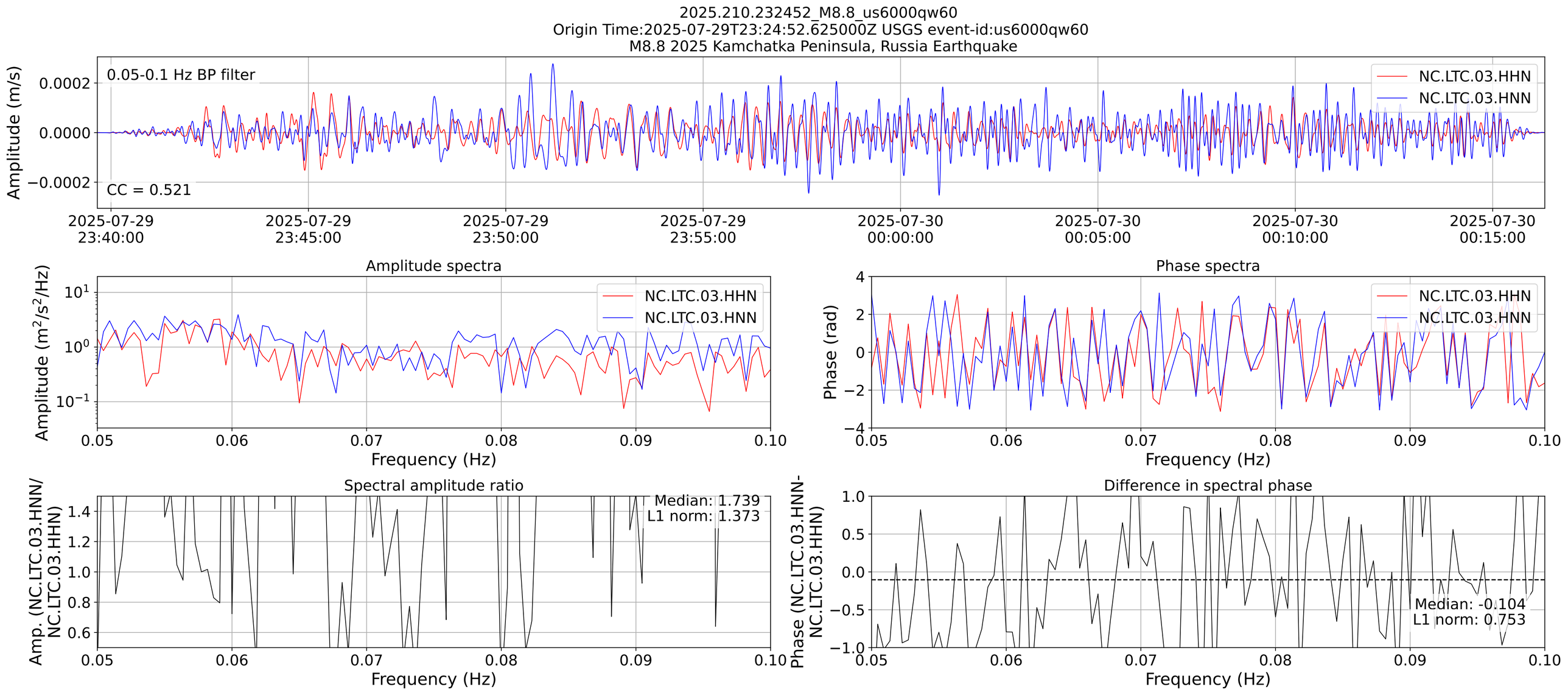

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LRSB.01.HHZ
NC.LRSB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LRSB.01.HNZ/ NC.LRSB.01.HHZ)
Median: 1.017
L1 norm: 0.020
Difference in spectral phase
Phase (NC.LRSB.01.HNZ- NC.LRSB.01.HHZ)
Median: -0.001
L1 norm: 0.017

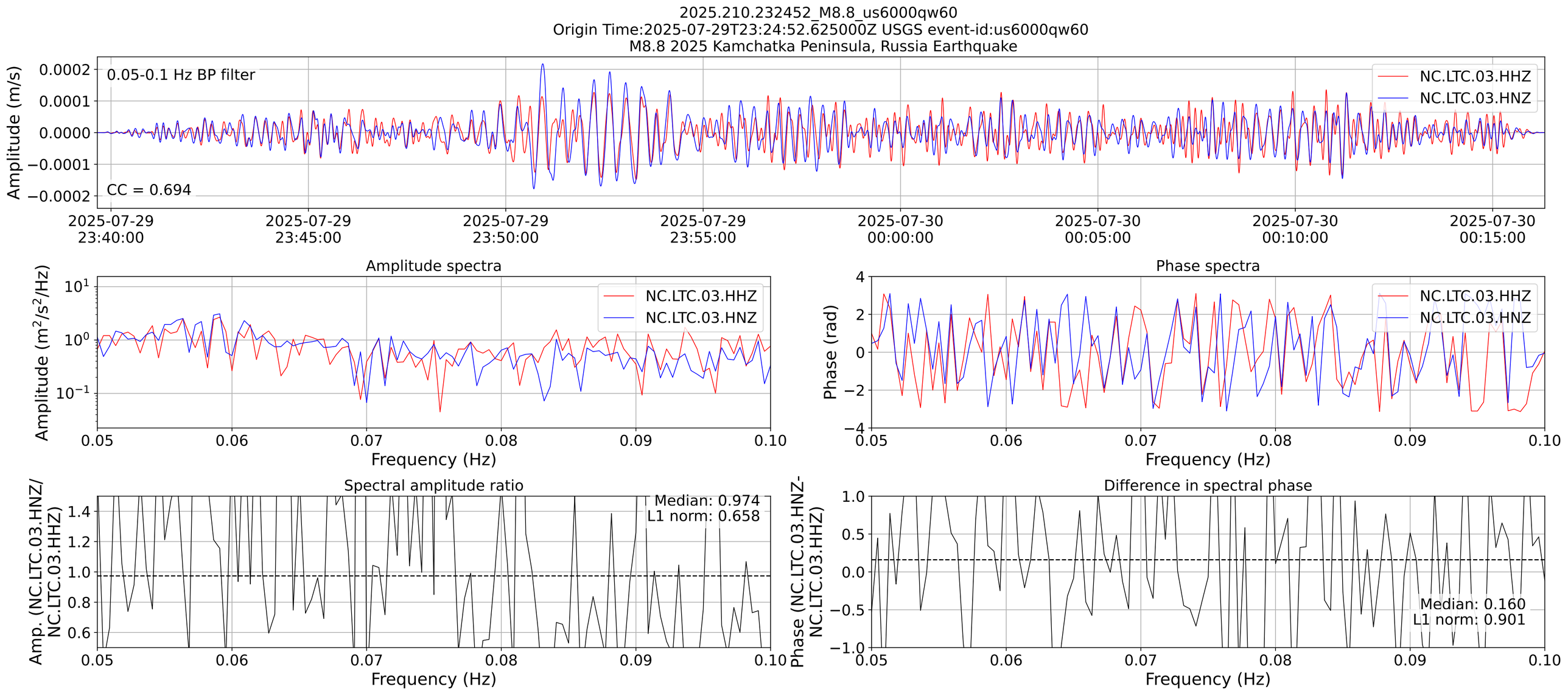

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LSD.01.HHE
NC.LSD.01.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LSD.01.HNE/ NC.LSD.01.HHE)
Median: 1.015
L1 norm: 0.058
Difference in spectral phase
Phase (NC.LSD.01.HNE- NC.LSD.01.HHE)
Median: 0.004
L1 norm: 0.053

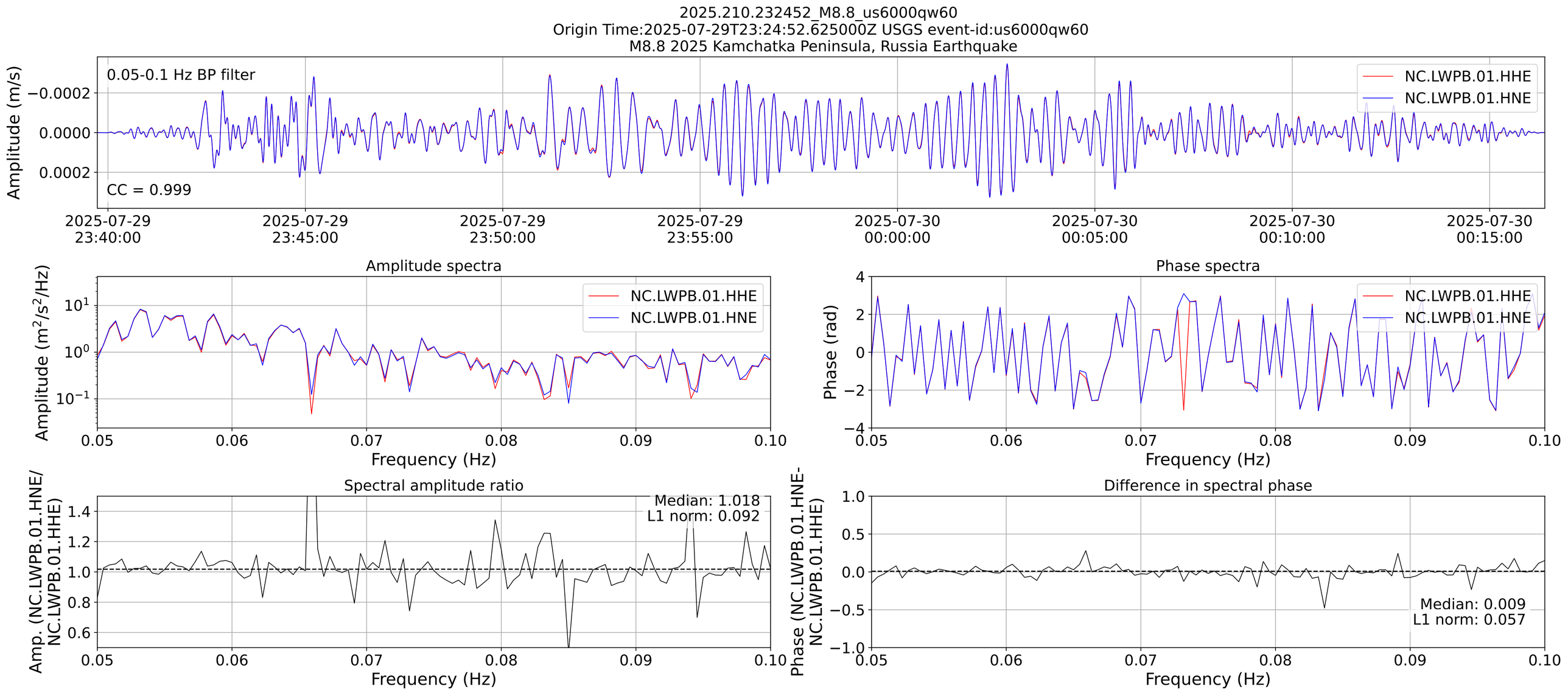

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.LSD.01.HHN
NC.LSD.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LSD.01.HNN/ NC.LSD.01.HHN)
Median: 0.983
L1 norm: 0.064
Difference in spectral phase
Phase (NC.LSD.01.HNN- NC.LSD.01.HHN)
Median: 0.000
L1 norm: 0.084

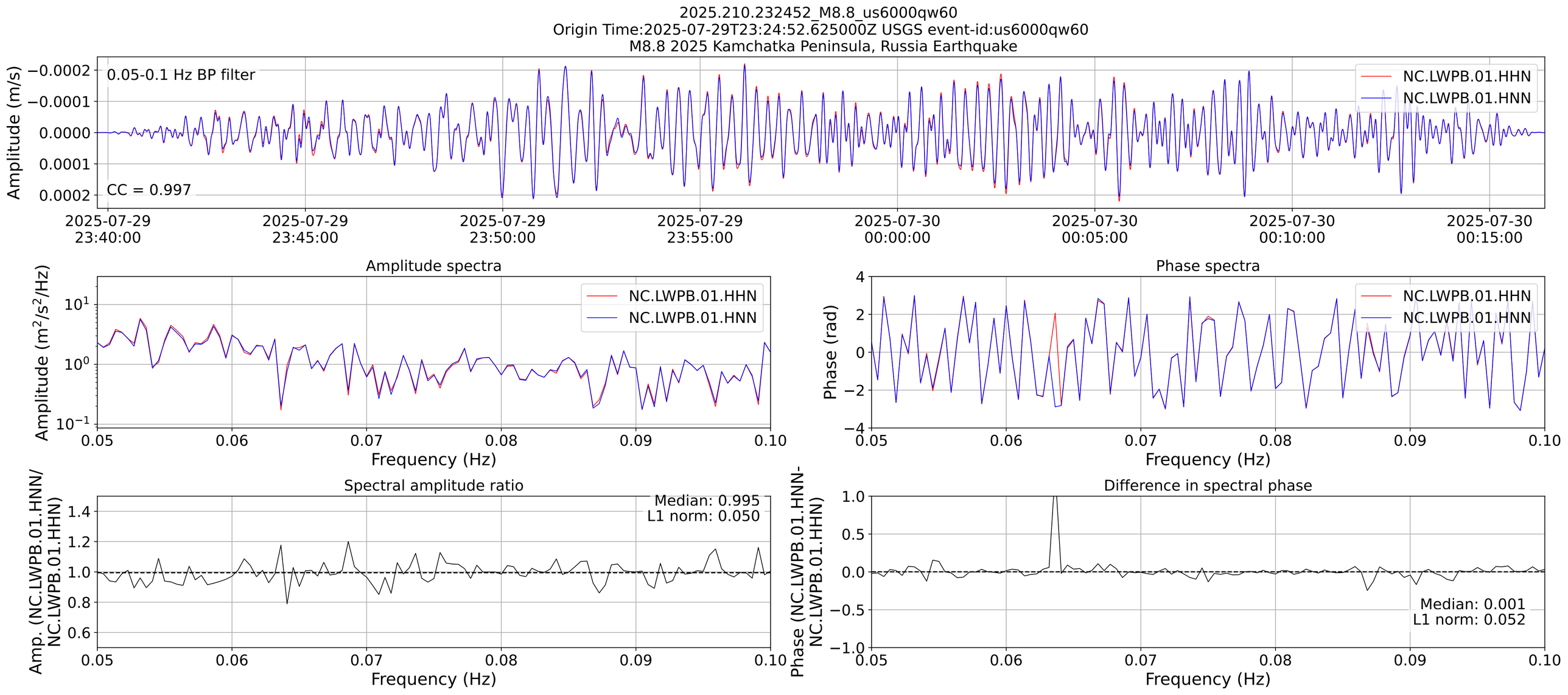

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LSD.01.HHZ
NC.LSD.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LSD.01.HNZ/ NC.LSD.01.HHZ)
Median: 0.999
L1 norm: 0.023
Difference in spectral phase
Phase (NC.LSD.01.HNZ- NC.LSD.01.HHZ)
Median: 0.006
L1 norm: 0.026

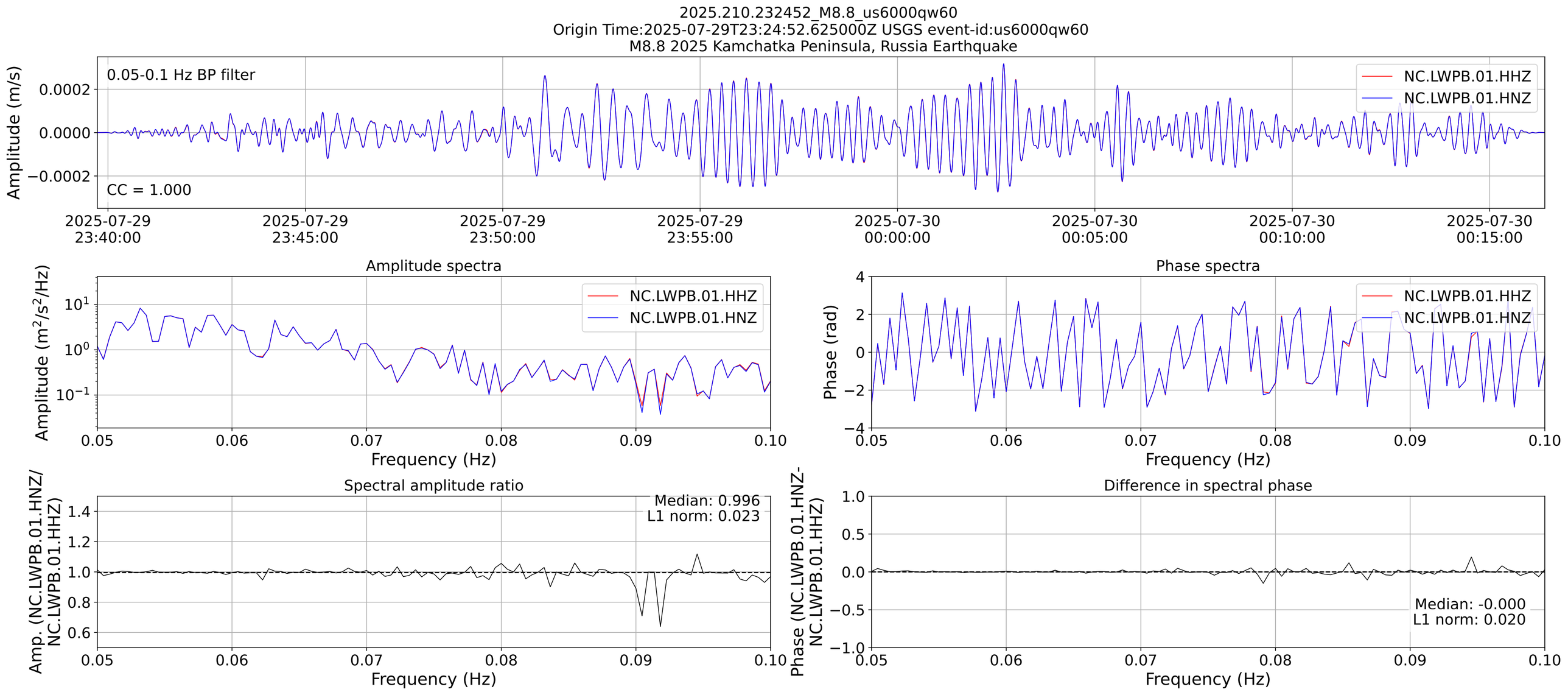

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.986
NC.LTC.03.HHE
NC.LTC.03.HNE
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LTC.03.HNE/ NC.LTC.03.HHE)
Median: 1.124
L1 norm: 0.184
Difference in spectral phase
Phase (NC.LTC.03.HNE- NC.LTC.03.HHE)
Median: 0.042
L1 norm: 0.221

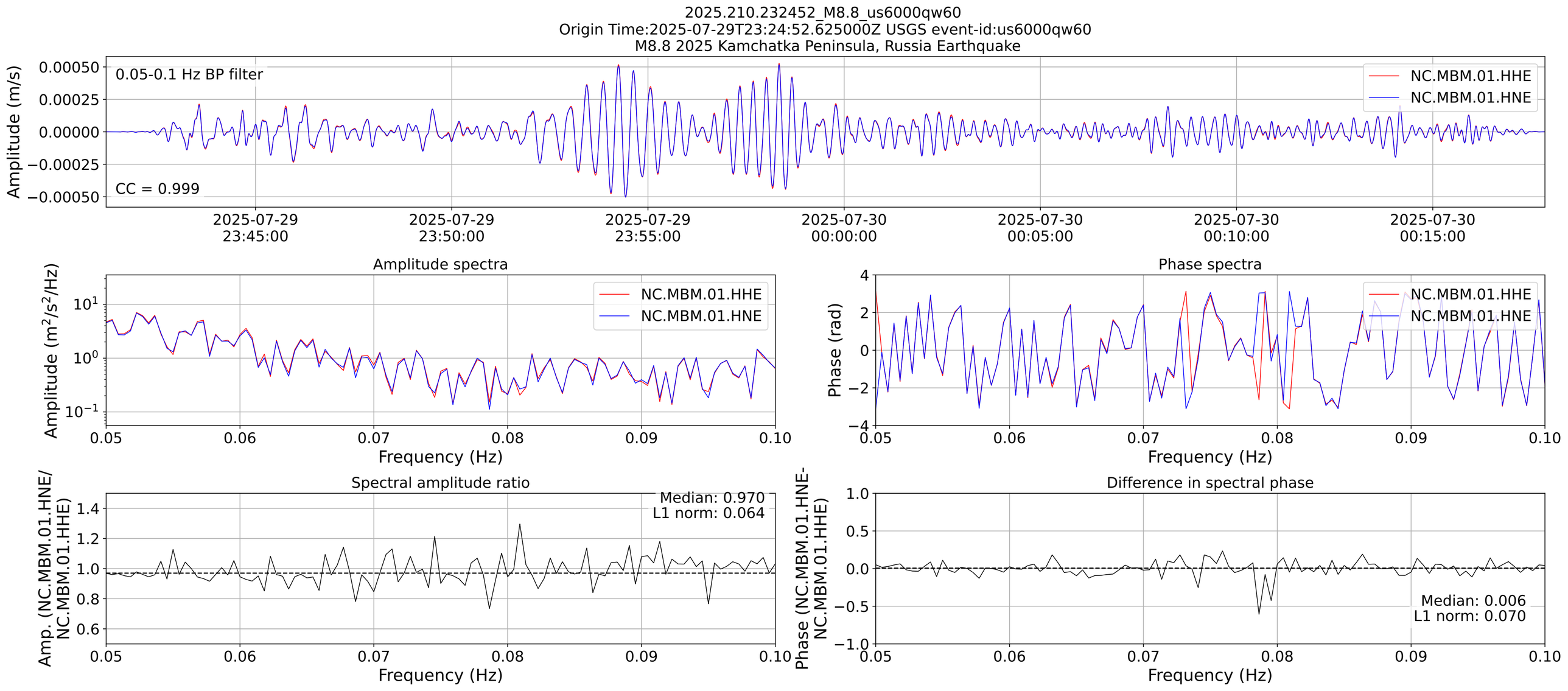

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.521
NC.LTC.03.HHN
NC.LTC.03.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LTC.03.HNN/ NC.LTC.03.HHN)
Median: 1.739
L1 norm: 1.373
Difference in spectral phase
Phase (NC.LTC.03.HNN- NC.LTC.03.HHN)
Median: -0.104
L1 norm: 0.753

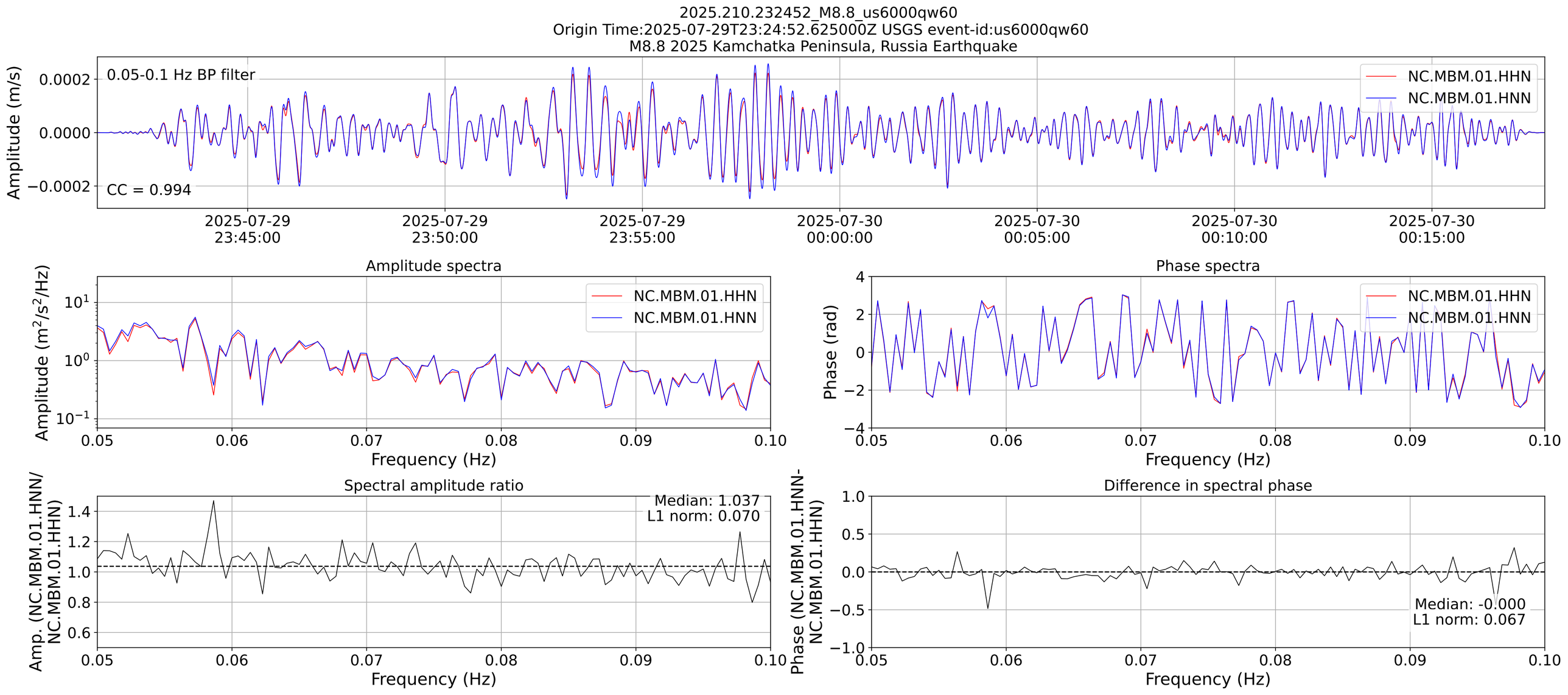

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.694
NC.LTC.03.HHZ
NC.LTC.03.HNZ
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 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. (NC.LTC.03.HNZ/ NC.LTC.03.HHZ)
Median: 0.974
L1 norm: 0.658
Difference in spectral phase
Phase (NC.LTC.03.HNZ- NC.LTC.03.HHZ)
Median: 0.160
L1 norm: 0.901

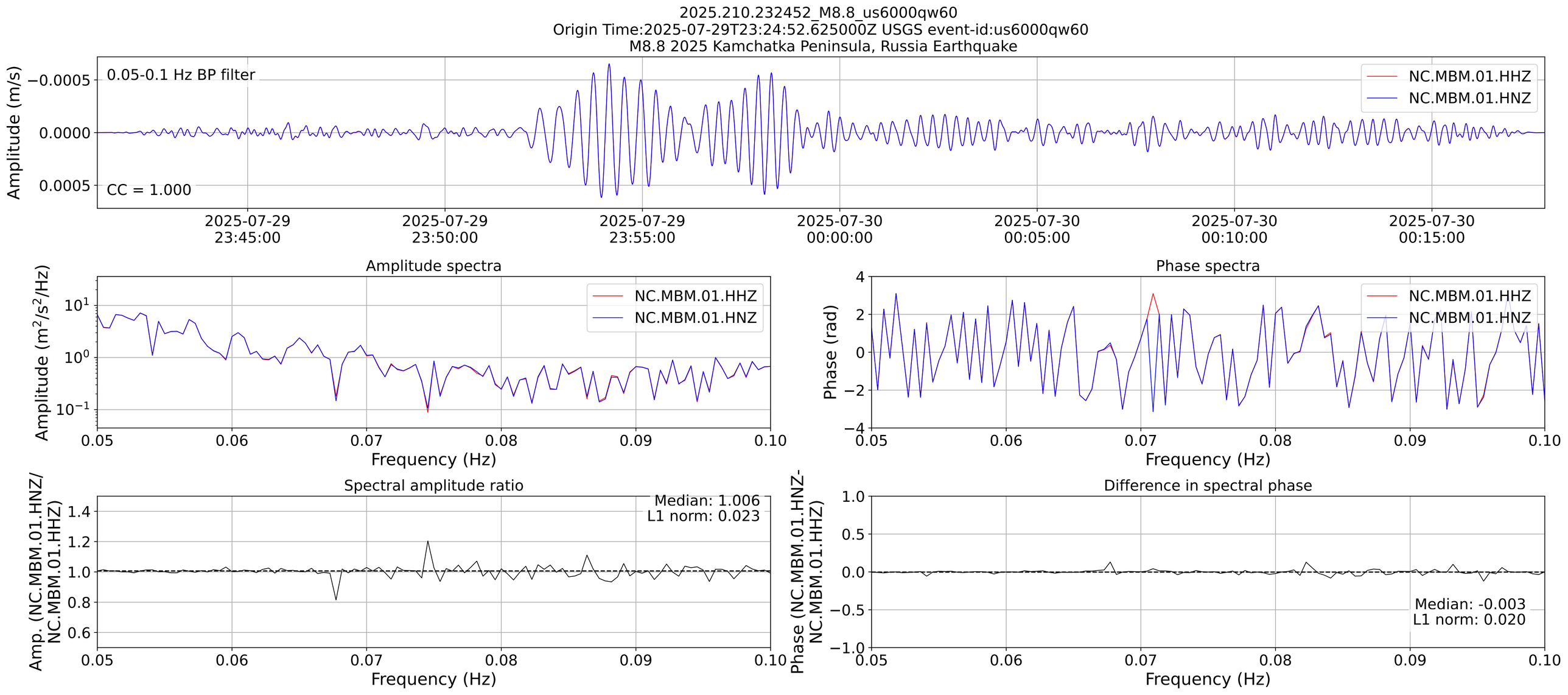

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.LWPB.01.HHE
NC.LWPB.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LWPB.01.HNE/ NC.LWPB.01.HHE)
Median: 1.018
L1 norm: 0.092
Difference in spectral phase
Phase (NC.LWPB.01.HNE- NC.LWPB.01.HHE)
Median: 0.009
L1 norm: 0.057

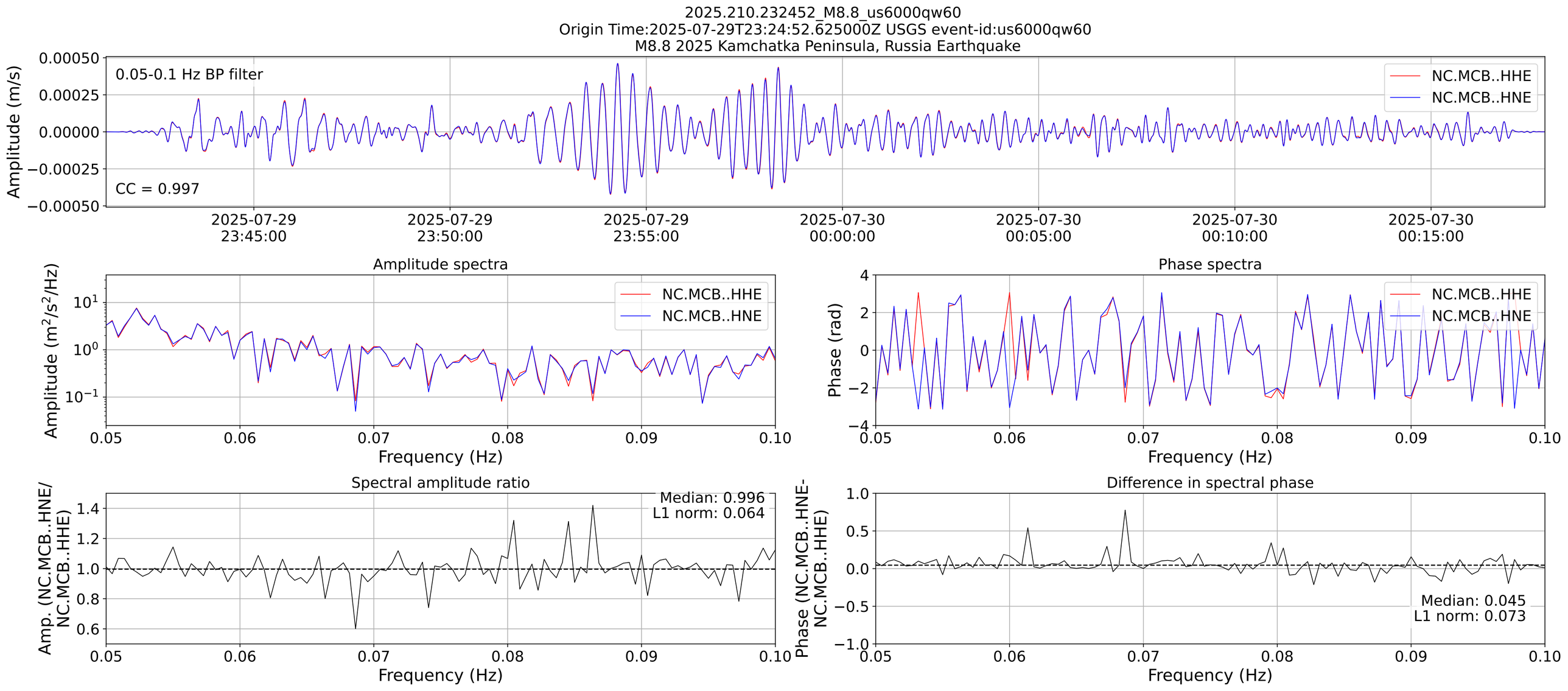

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.LWPB.01.HHN
NC.LWPB.01.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.LWPB.01.HNN/ NC.LWPB.01.HHN)
Median: 0.995
L1 norm: 0.050
Difference in spectral phase
Phase (NC.LWPB.01.HNN- NC.LWPB.01.HHN)
Median: 0.001
L1 norm: 0.052

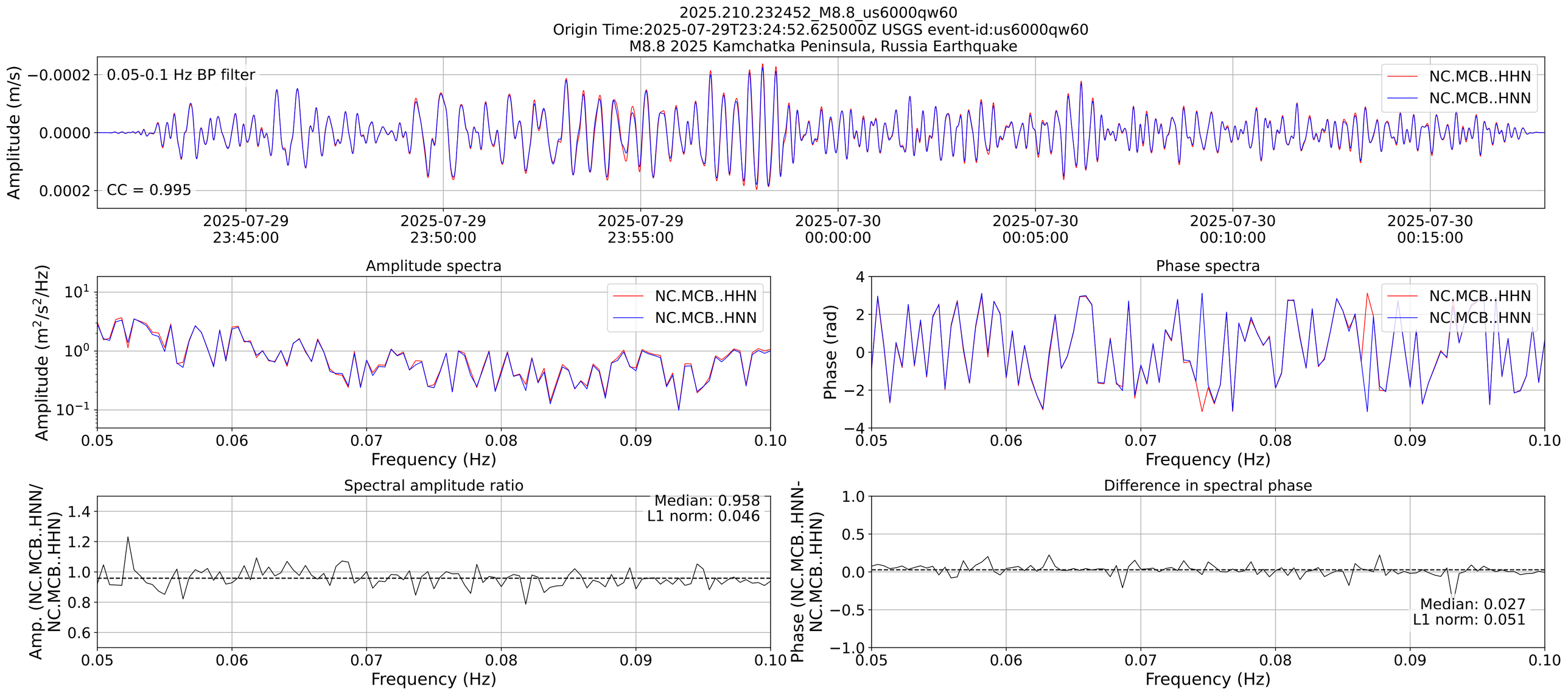

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.LWPB.01.HHZ
NC.LWPB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.LWPB.01.HNZ/ NC.LWPB.01.HHZ)
Median: 0.996
L1 norm: 0.023
Difference in spectral phase
Phase (NC.LWPB.01.HNZ- NC.LWPB.01.HHZ)
Median: -0.000
L1 norm: 0.020

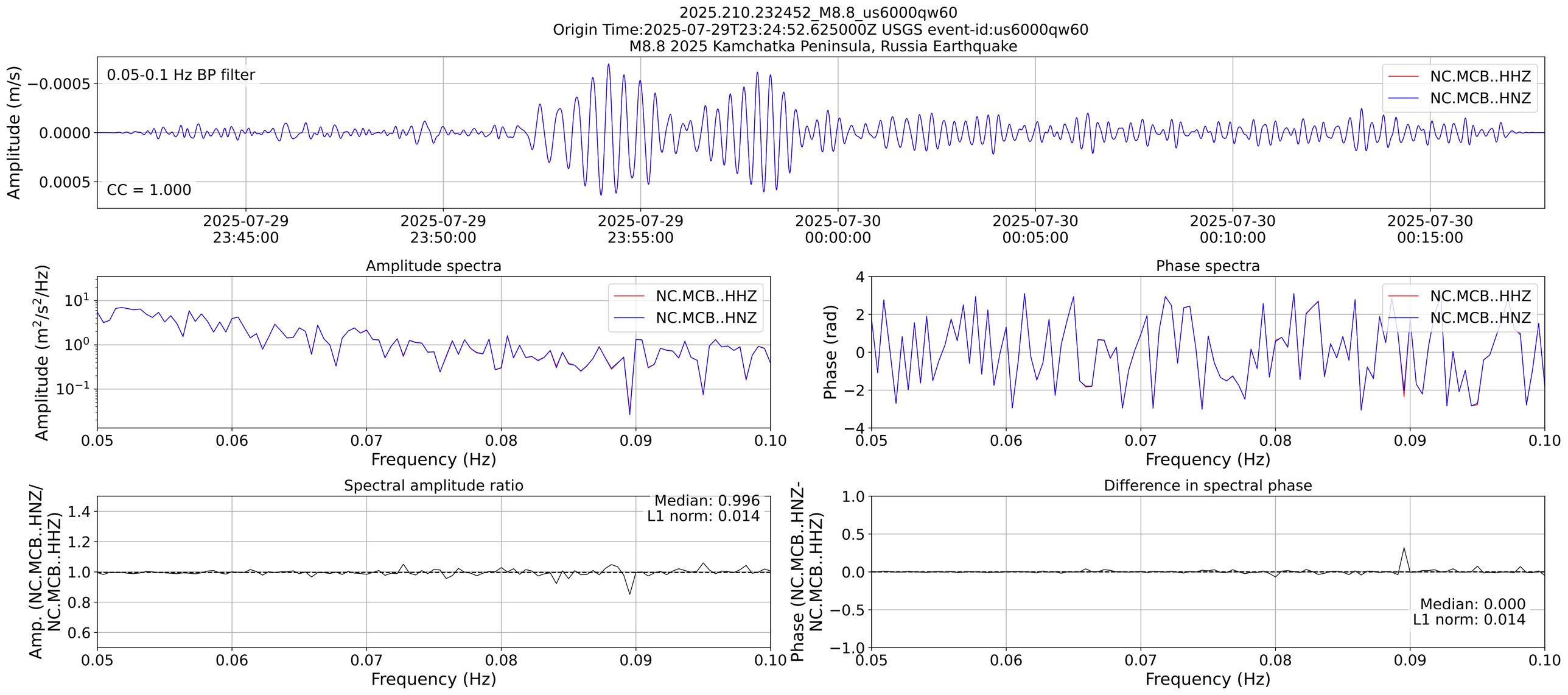

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.MBM.01.HHE
NC.MBM.01.HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MBM.01.HNE/ NC.MBM.01.HHE)
Median: 0.970
L1 norm: 0.064
Difference in spectral phase
Phase (NC.MBM.01.HNE- NC.MBM.01.HHE)
Median: 0.006
L1 norm: 0.070

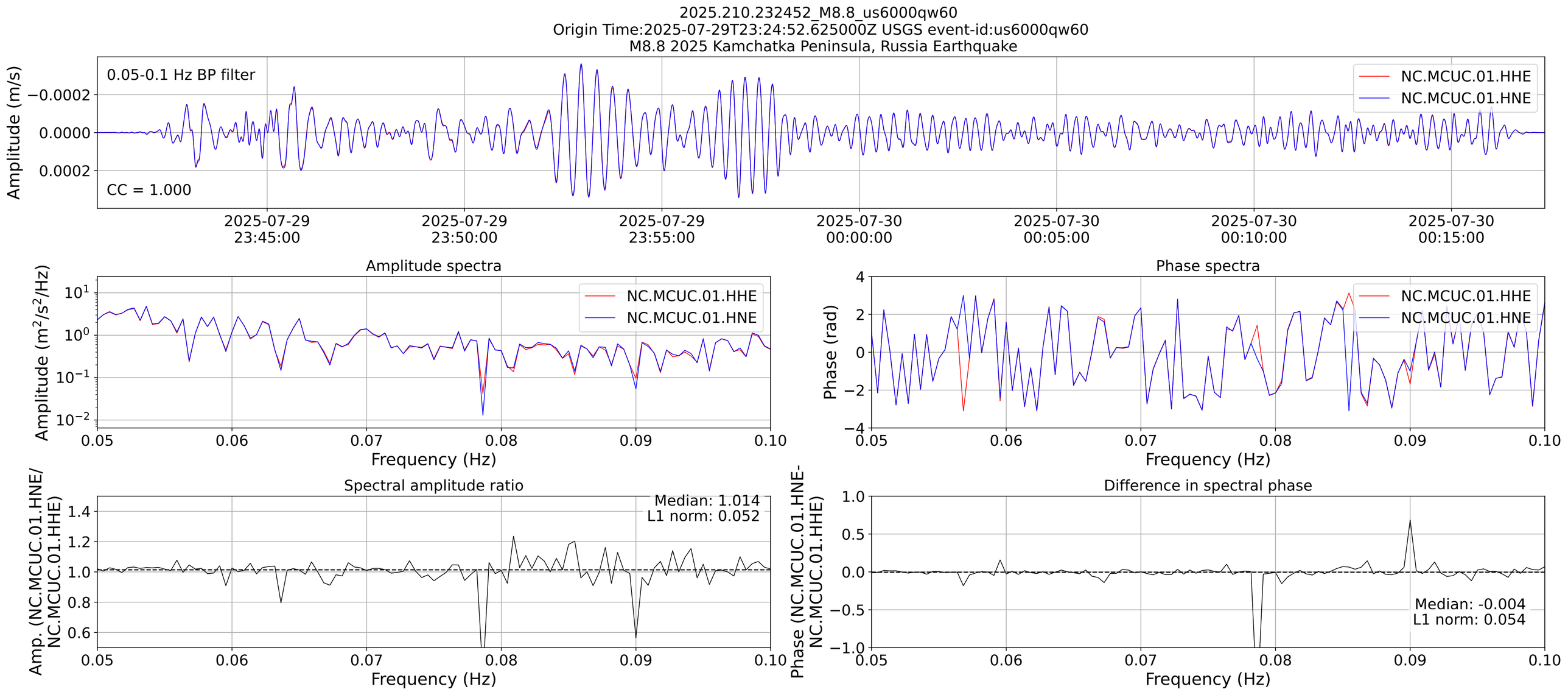

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.994
NC.MBM.01.HHN
NC.MBM.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MBM.01.HNN/ NC.MBM.01.HHN)
Median: 1.037
L1 norm: 0.070
Difference in spectral phase
Phase (NC.MBM.01.HNN-NC.MBM.01.HHN)
Median: -0.000
L1 norm: 0.067

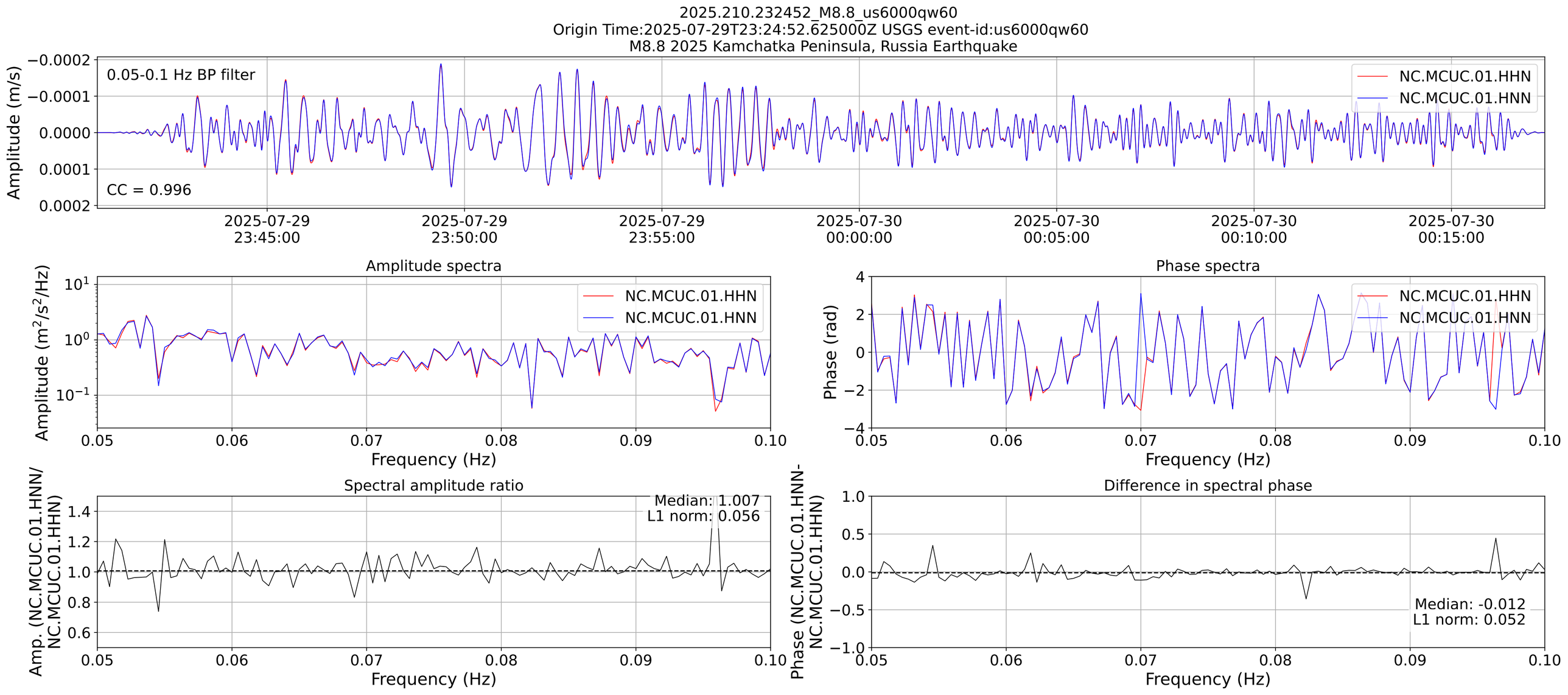

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MBM.01.HHZ
NC.MBM.01.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MBM.01.HNZ/ NC.MBM.01.HHZ)
Median: 1.006
L1 norm: 0.023
Difference in spectral phase
Phase (NC.MBM.01.HNZ-NC.MBM.01.HHZ)
Median: -0.003
L1 norm: 0.020

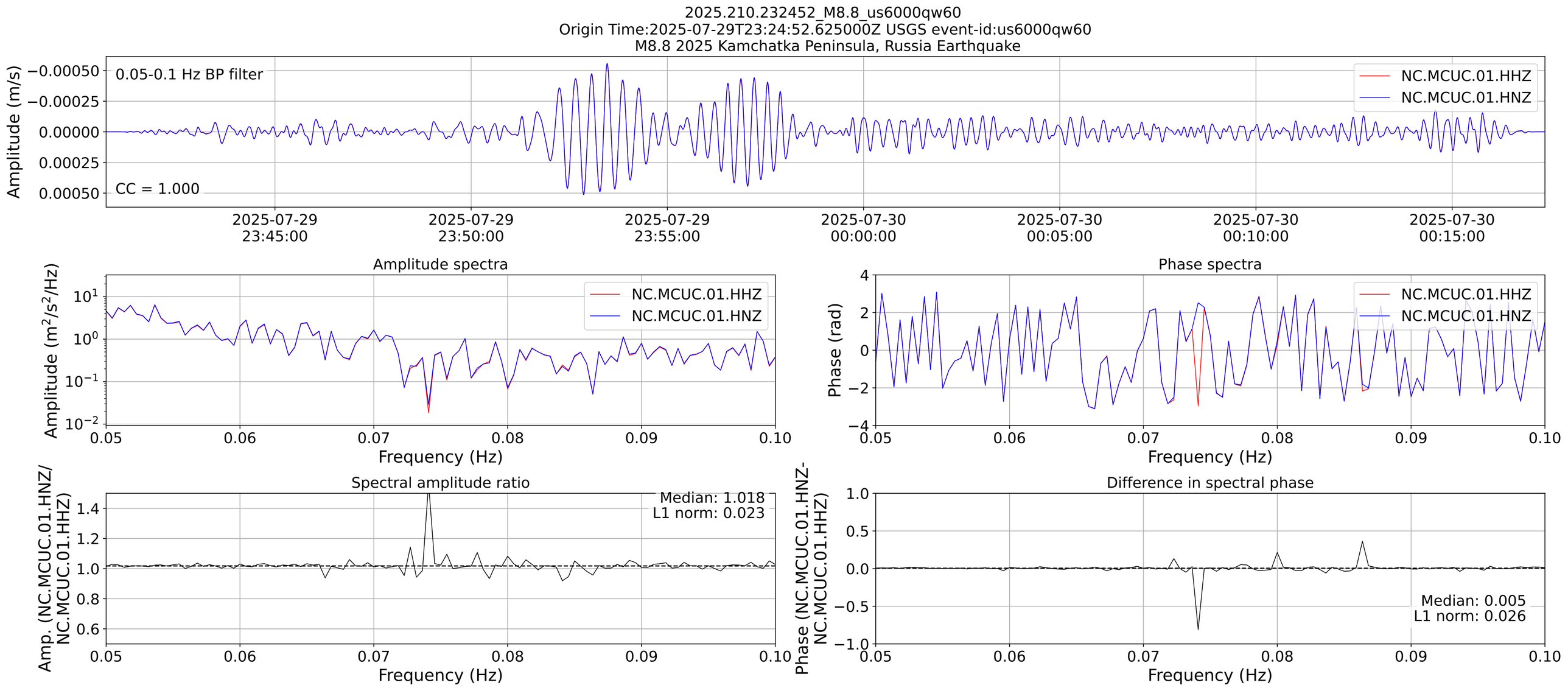

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.MCB..HHE
NC.MCB..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MCB..HNE/ NC.MCB..HHE)
Median: 0.996
L1 norm: 0.064
Difference in spectral phase
Phase (NC.MCB..HNE- NC.MCB..HHE)
Median: 0.045
L1 norm: 0.073

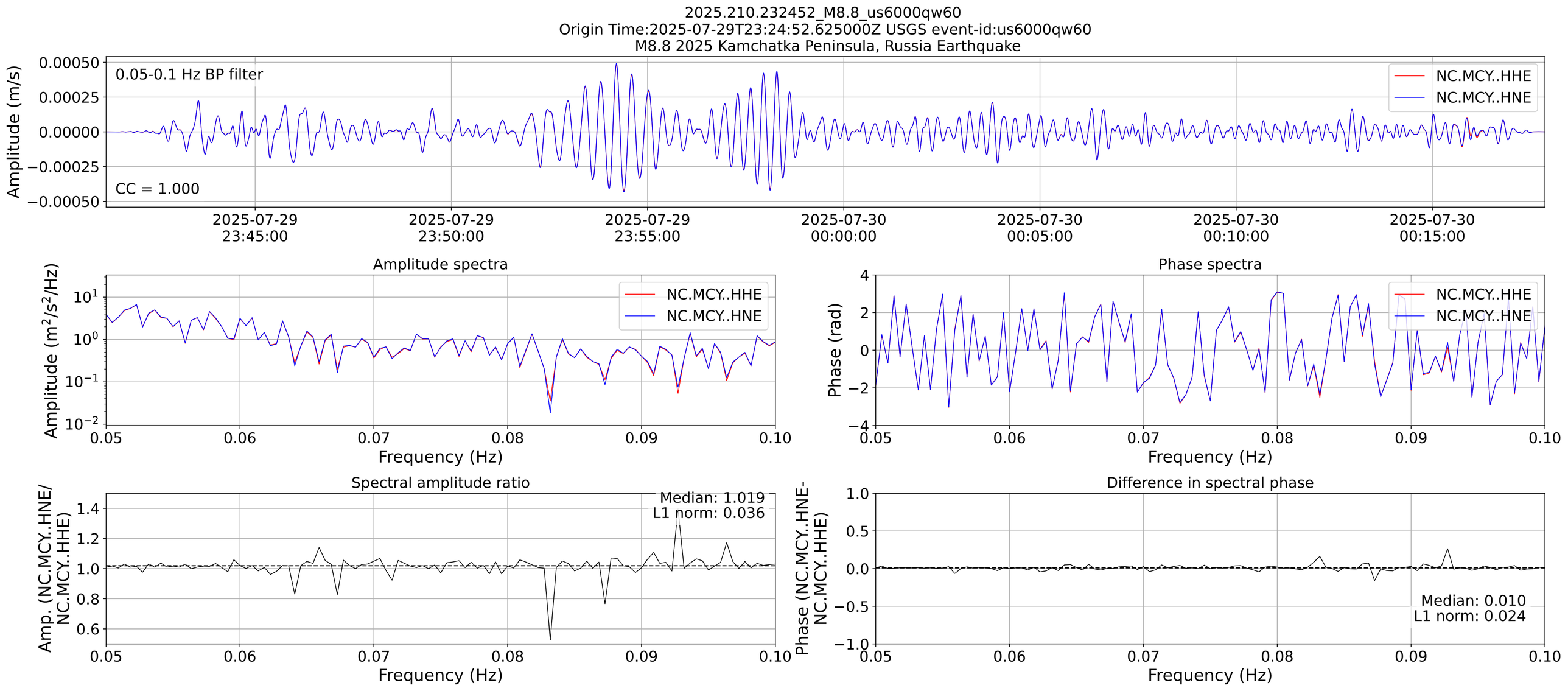

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.995
NC.MCB..HHN
NC.MCB..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MCB..HNN/ NC.MCB..HHN)
Median: 0.958
L1 norm: 0.046
Difference in spectral phase
Phase (NC.MCB..HNN- NC.MCB..HHN)
Median: 0.027
L1 norm: 0.051

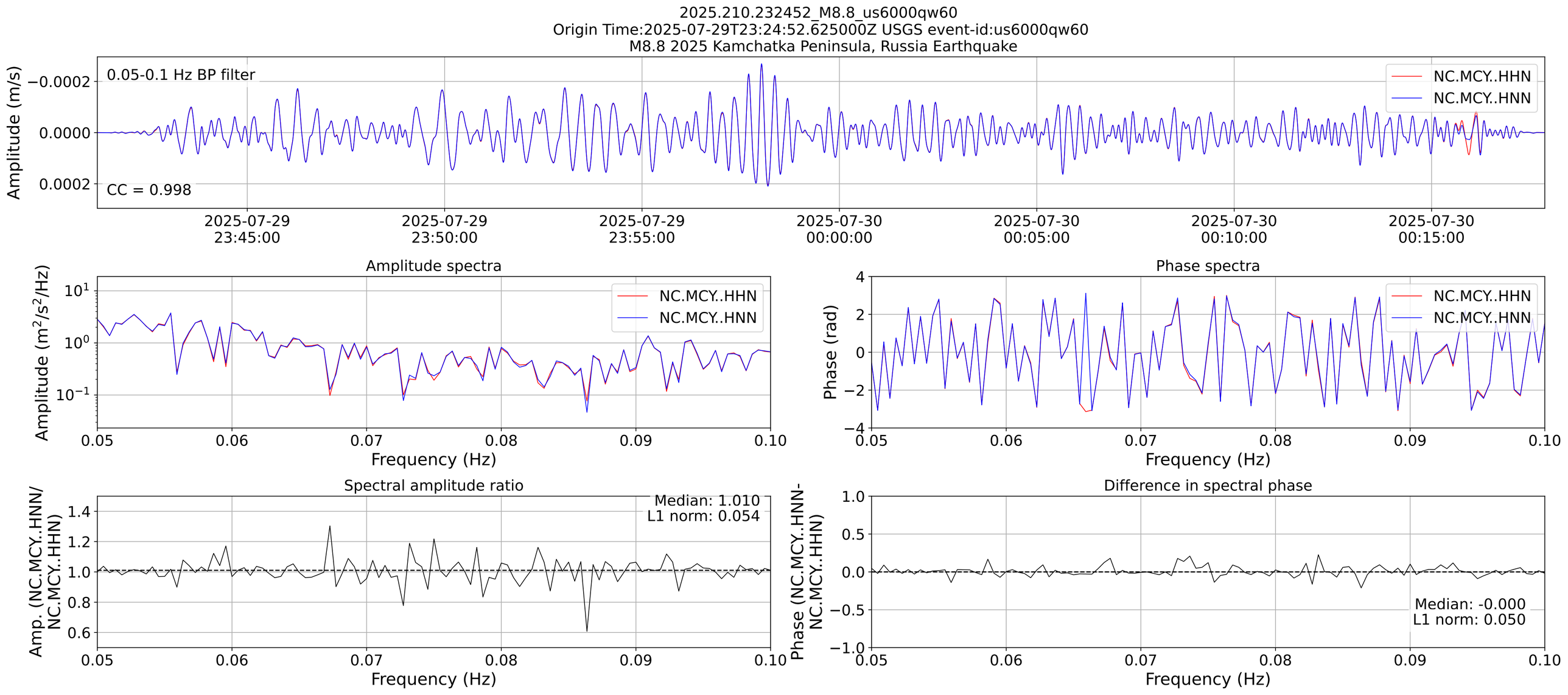

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MCB..HHZ
NC.MCB..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MCB..HNZ/ NC.MCB..HHZ)
Median: 0.996
L1 norm: 0.014
Difference in spectral phase
Phase (NC.MCB..HNZ- NC.MCB..HHZ)
Median: 0.000
L1 norm: 0.014

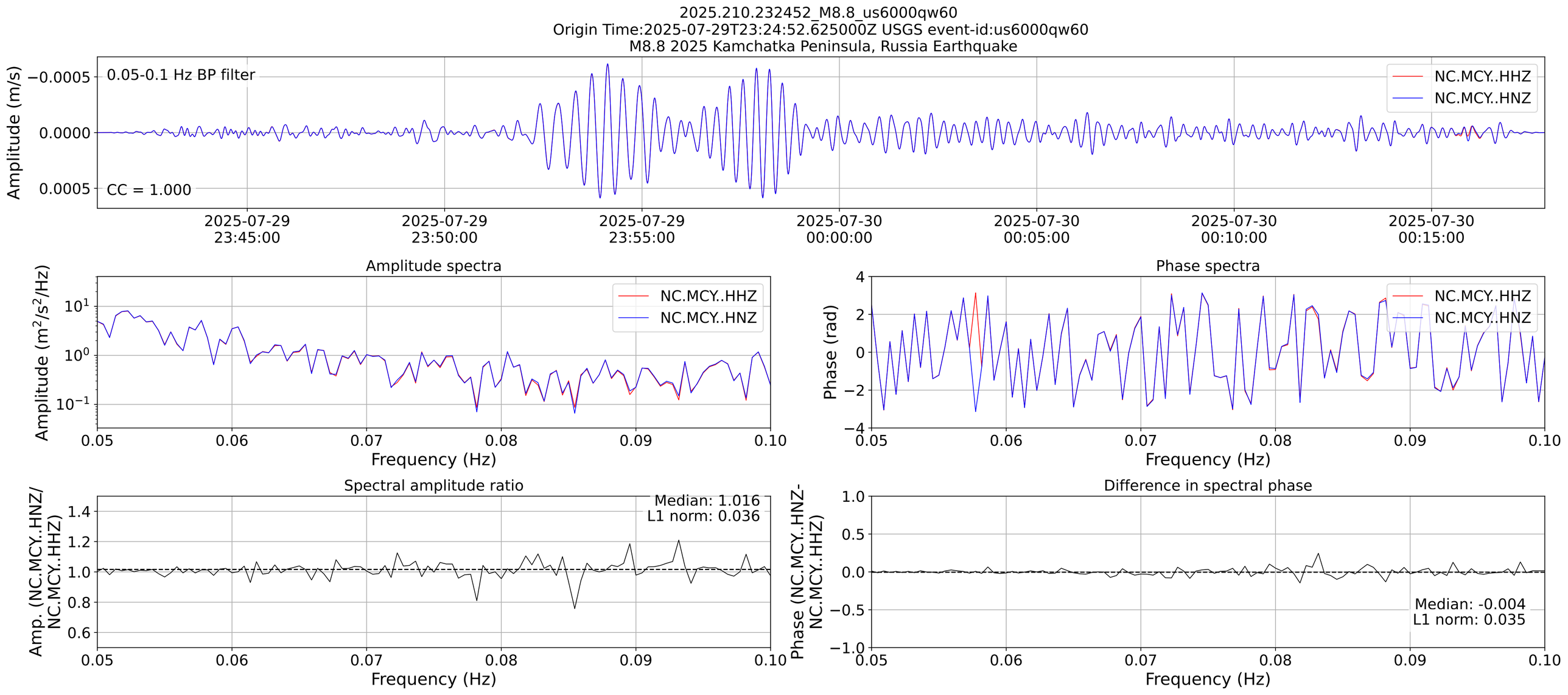

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MCUC.01.HHE
NC.MCUC.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MCUC.01.HNE/ NC.MCUC.01.HHE)
Median: 1.014
L1 norm: 0.052
Difference in spectral phase
Phase (NC.MCUC.01.HNE- NC.MCUC.01.HHE)
Median: -0.004
L1 norm: 0.054

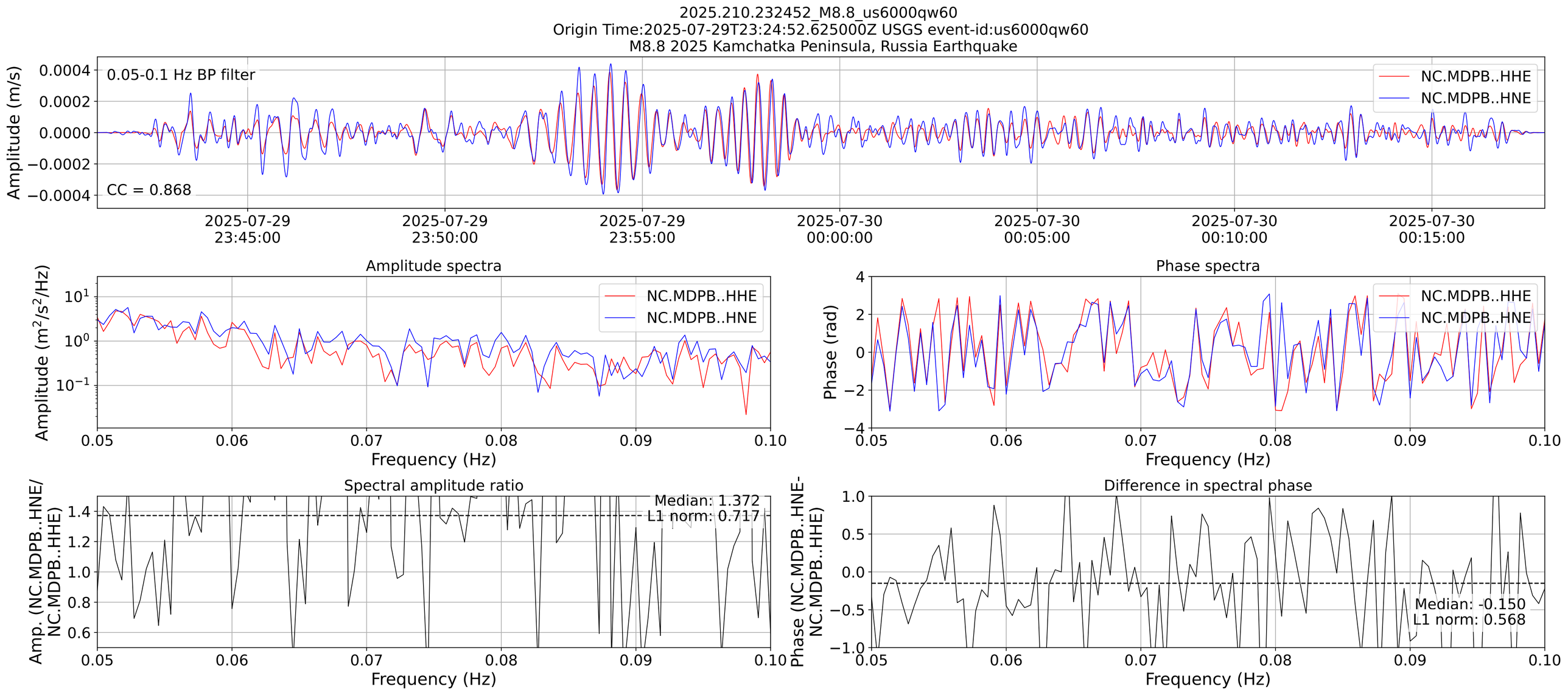

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.996
NC.MCUC.01.HHN
NC.MCUC.01.HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MCUC.01.HNN/ NC.MCUC.01.HHN)
Median: 1.007
L1 norm: 0.056
Difference in spectral phase
Phase (NC.MCUC.01.HNN-NC.MCUC.01.HHN)
Median: -0.012
L1 norm: 0.052

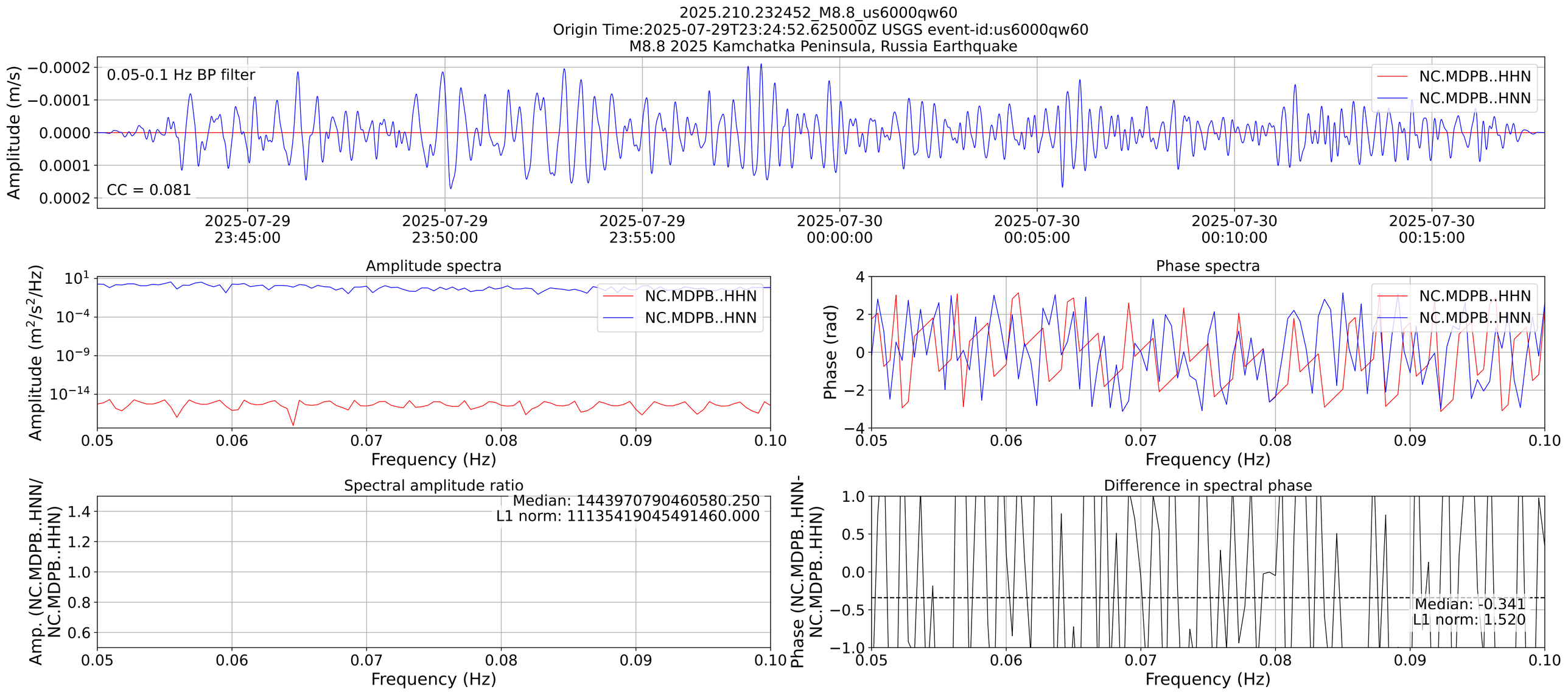

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MCUC.01.HHZ
NC.MCUC.01.HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MCUC.01.HNZ/ NC.MCUC.01.HHZ)
Median: 1.018
L1 norm: 0.023
Difference in spectral phase
Phase (NC.MCUC.01.HNZ- NC.MCUC.01.HHZ)
Median: 0.005
L1 norm: 0.026

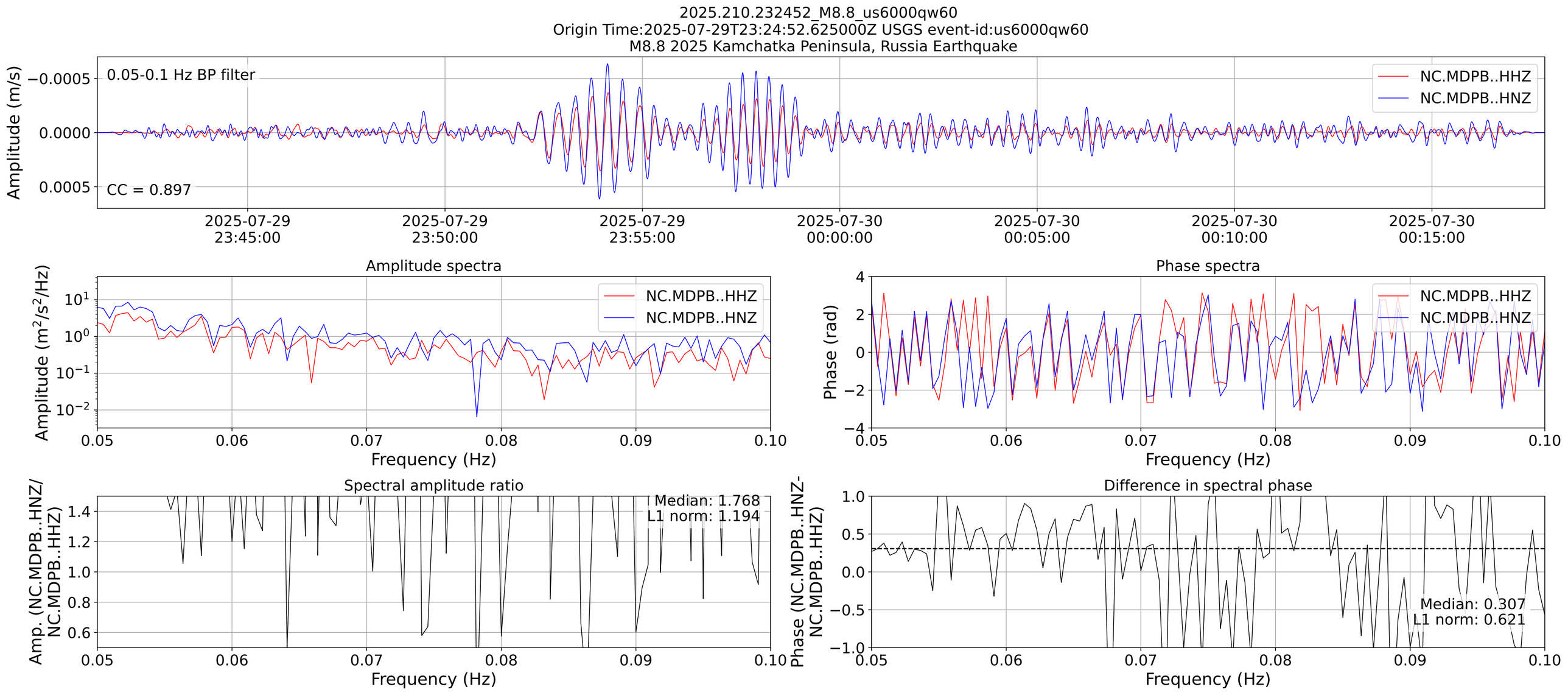

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MCY..HHE
NC.MCY..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MCY..HNE/ NC.MCY..HHE)
Median: 1.019
L1 norm: 0.036
Difference in spectral phase
Phase (NC.MCY..HNE- NC.MCY..HHE)
Median: 0.010
L1 norm: 0.024

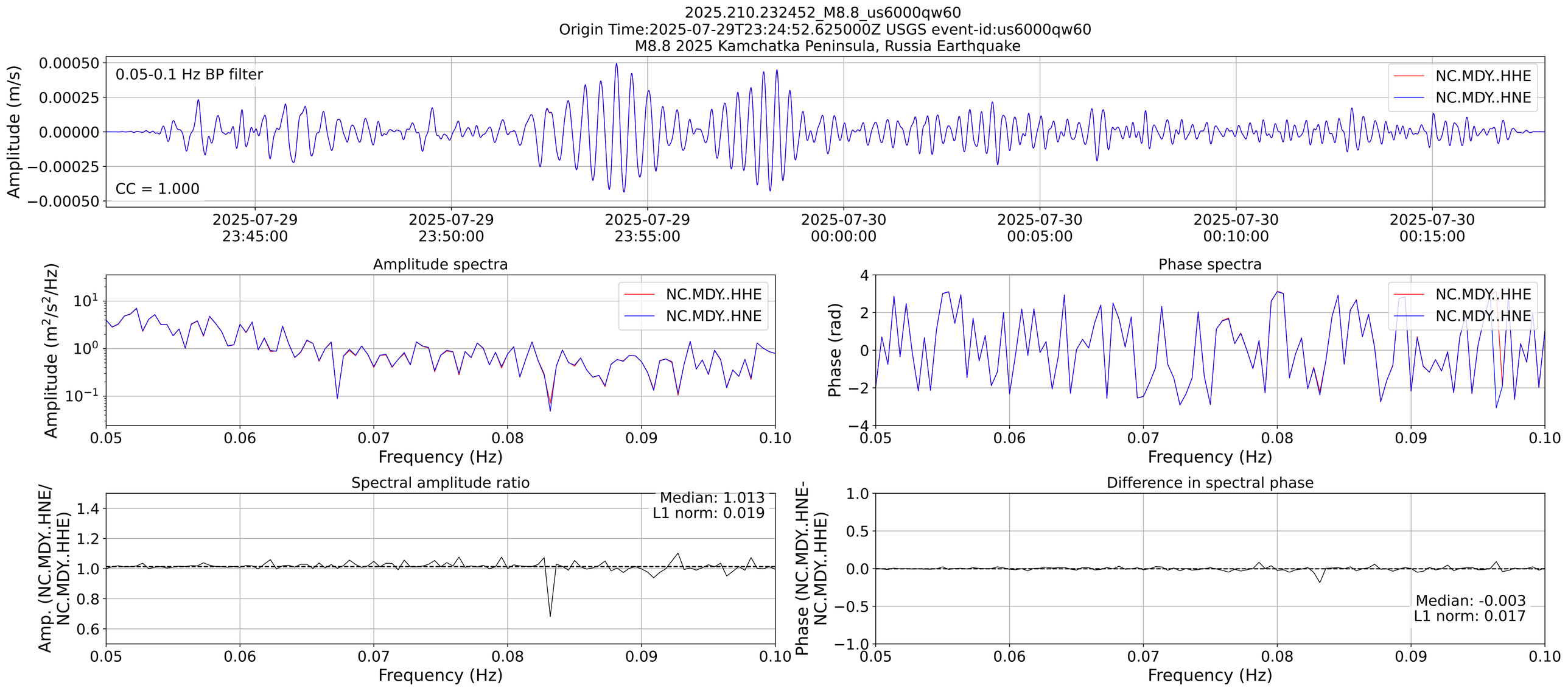

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
NC.MCY..HHN
NC.MCY..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MCY..HNN/ NC.MCY..HHN)
Median: 1.010
L1 norm: 0.054
Difference in spectral phase
Phase (NC.MCY..HNN- NC.MCY..HHN)
Median: -0.000
L1 norm: 0.050

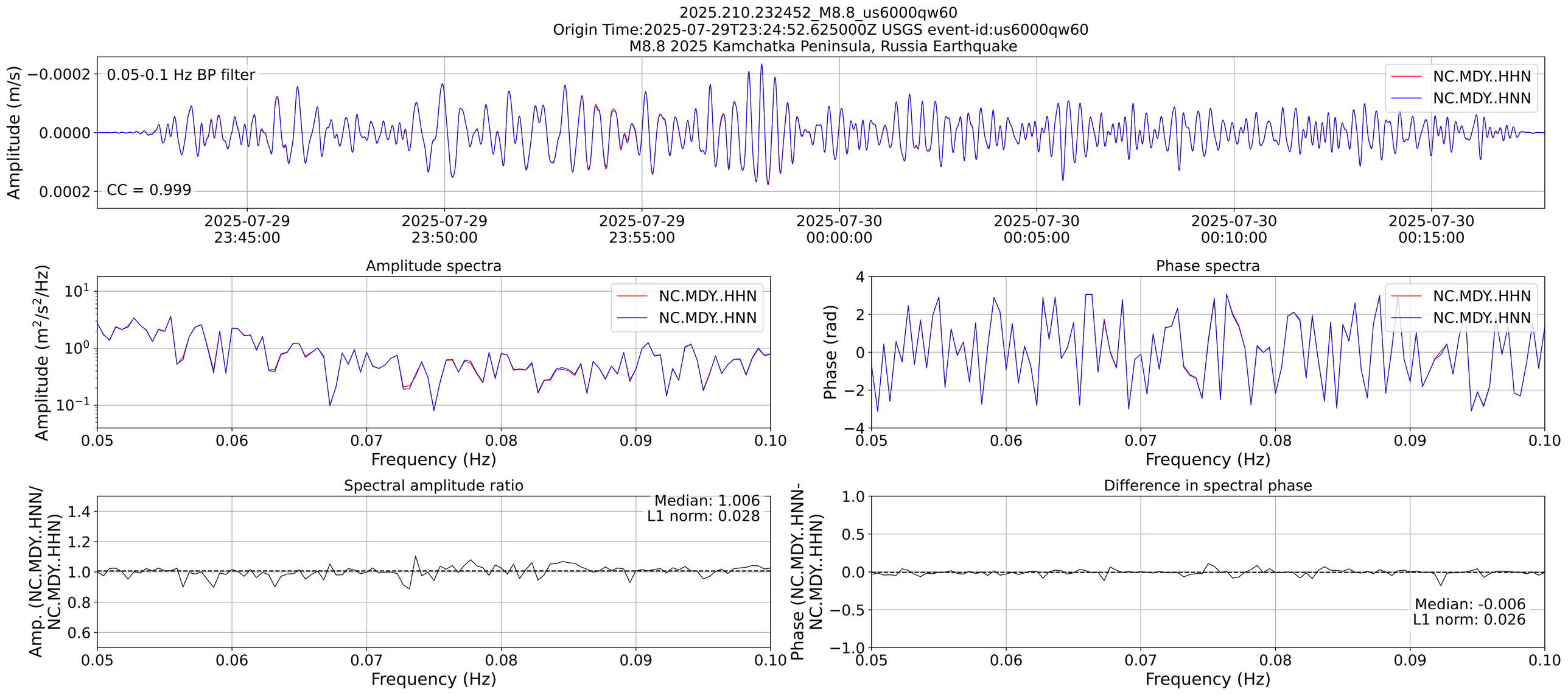

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MCY..HHZ
NC.MCY..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MCY..HNZ/ NC.MCY..HHZ)
Median: 1.016
L1 norm: 0.036
Difference in spectral phase
Phase (NC.MCY..HNZ- NC.MCY..HHZ)
Median: -0.004
L1 norm: 0.035

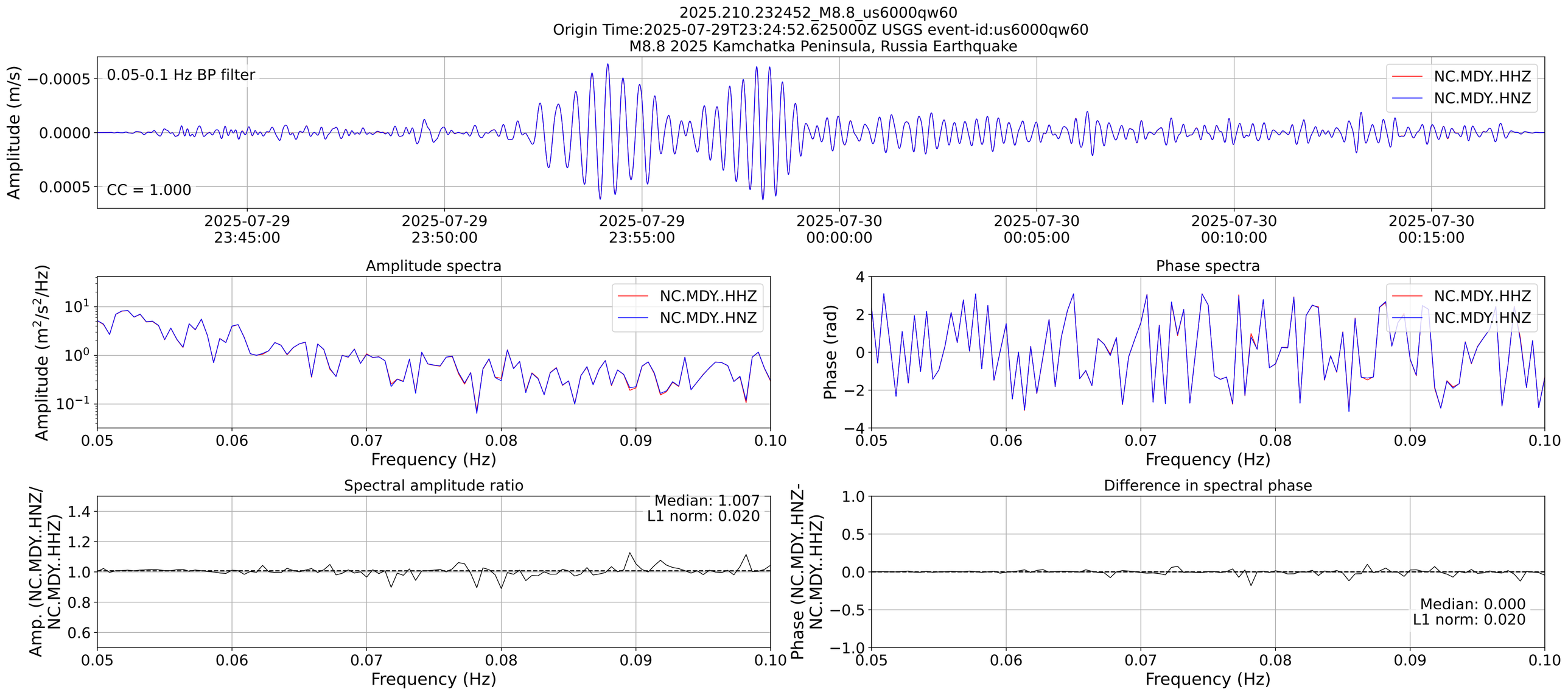

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.868
NC.MDPB..HHE
NC.MDPB..HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.MDPB..HNE/ NC.MDPB..HHE)
Median: 1.372
L1 norm: 0.717
Difference in spectral phase
Phase (NC.MDPB..HNE- NC.MDPB..HHE)
Median: -0.150
L1 norm: 0.568

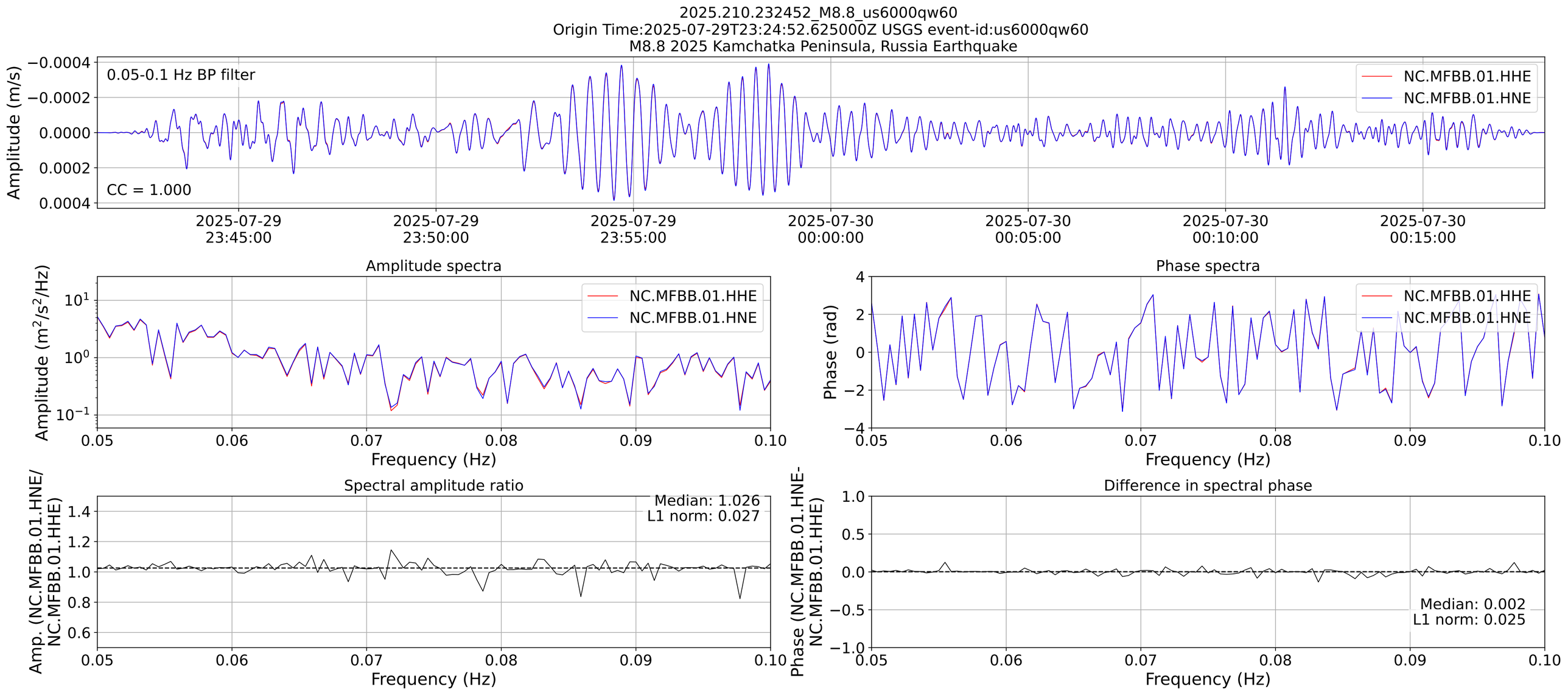

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.081
NC.MDPB..HHN
NC.MDPB..HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.MDPB..HNN/ NC.MDPB..HHN)
Median: 1443970790460580.250
L1 norm: 11135419045491460.000
Difference in spectral phase
Phase (NC.MDPB..HNN- NC.MDPB..HHN)
Median: -0.341
L1 norm: 1.520

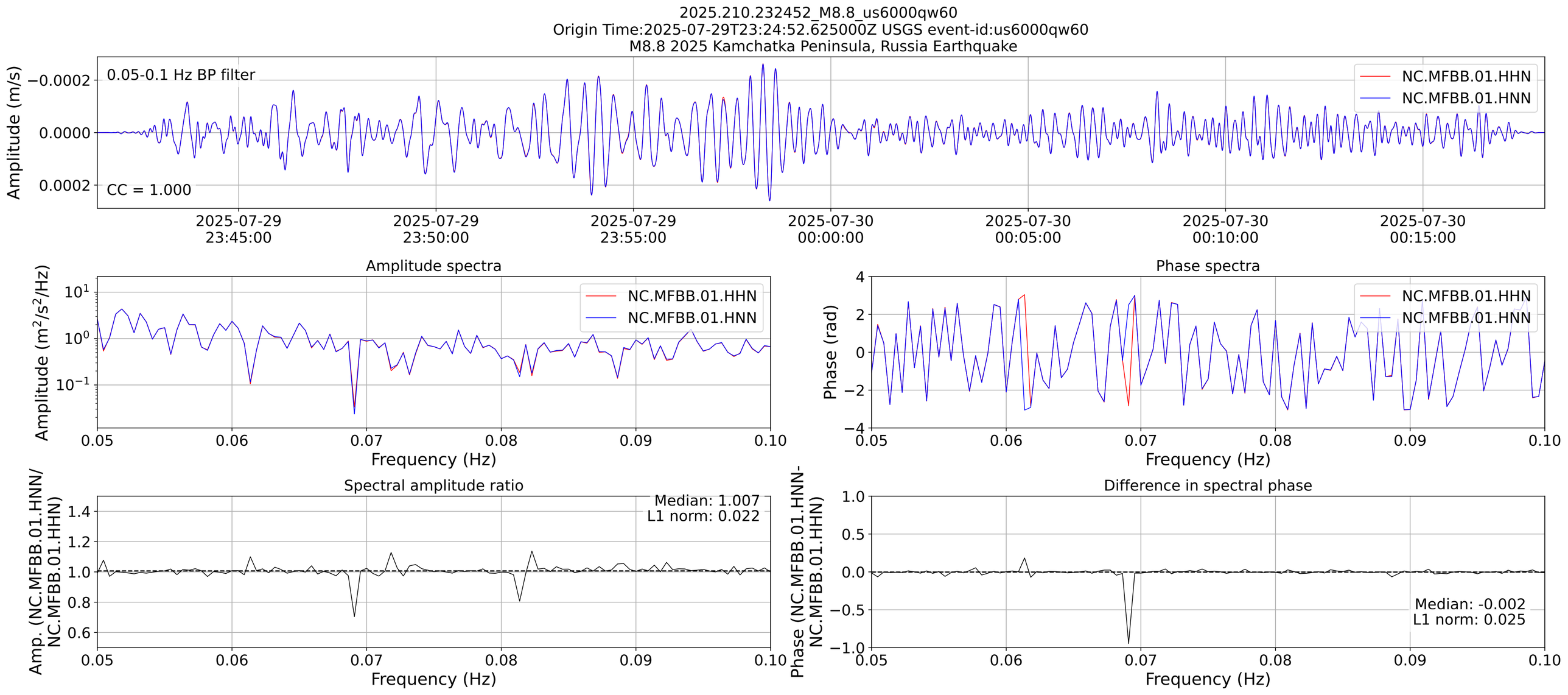

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.897
NC.MDPB..HHZ
NC.MDPB..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MDPB..HNZ/ NC.MDPB..HHZ)
Median: 1.768
L1 norm: 1.194
Difference in spectral phase
Phase (NC.MDPB..HNZ- NC.MDPB..HHZ)
Median: 0.307
L1 norm: 0.621

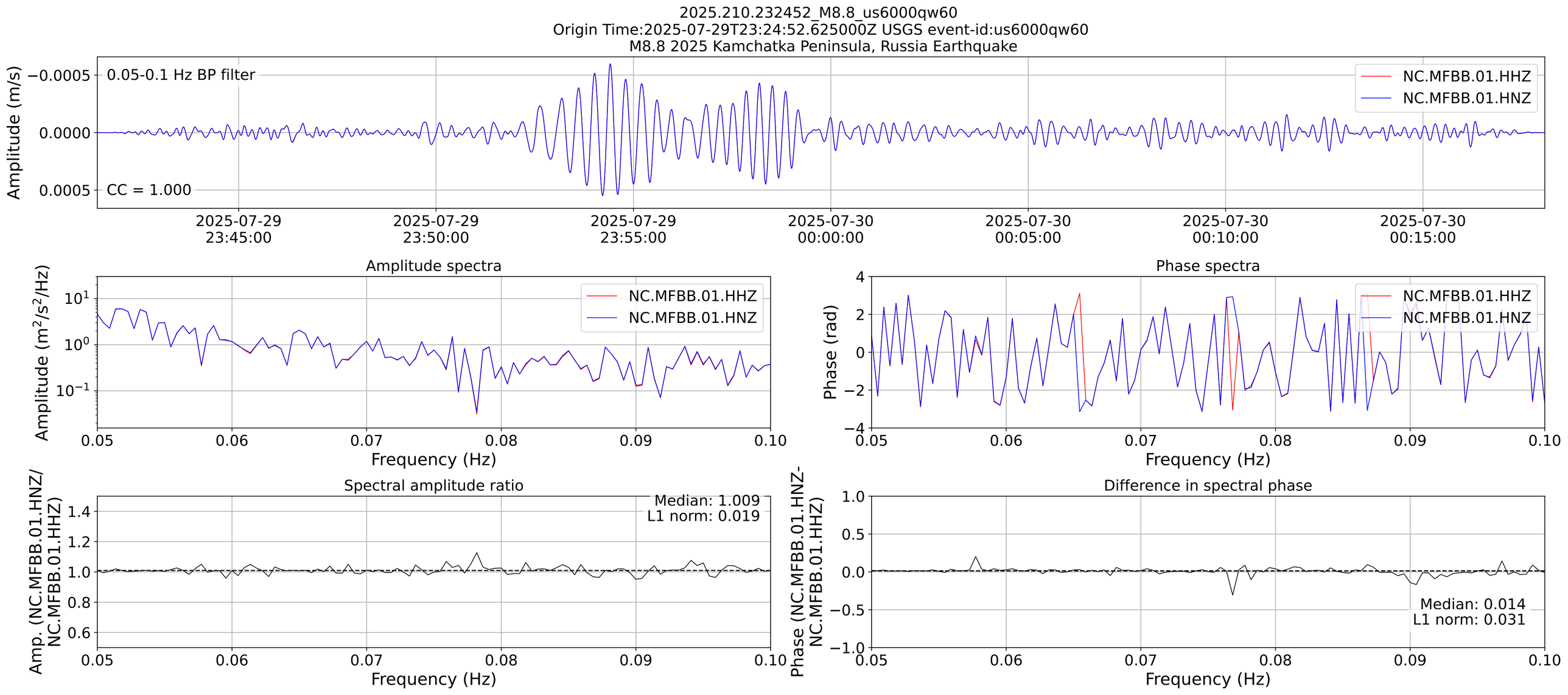

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MDY..HHE
NC.MDY..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MDY..HNE/ NC.MDY..HHE)
Median: 1.013
L1 norm: 0.019
Difference in spectral phase
Phase (NC.MDY..HNE- NC.MDY..HHE)
Median: -0.003
L1 norm: 0.017

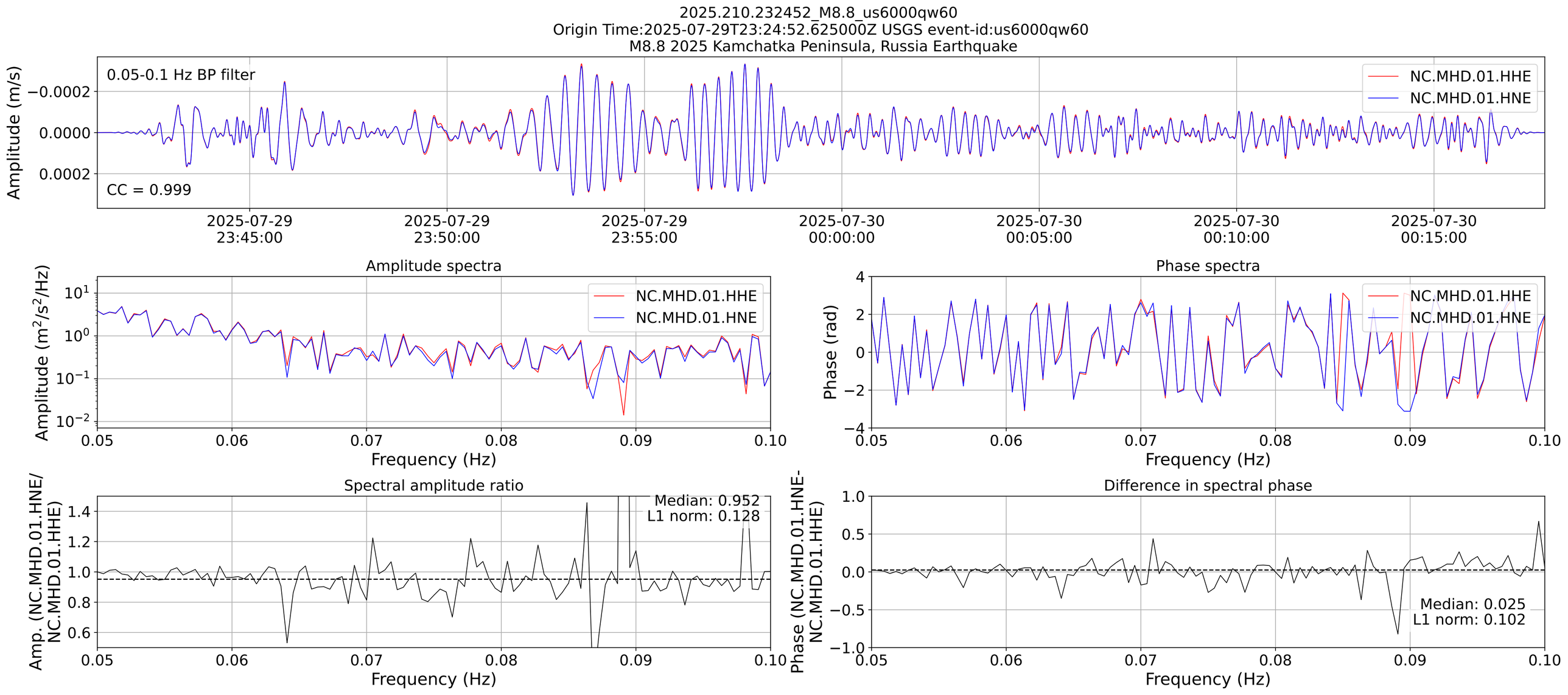

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.MDY..HHN
NC.MDY..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MDY..HNN/ NC.MDY..HHN)
Median: 1.006
L1 norm: 0.028
Difference in spectral phase
Phase (NC.MDY..HNN- NC.MDY..HHN)
Median: -0.006
L1 norm: 0.026

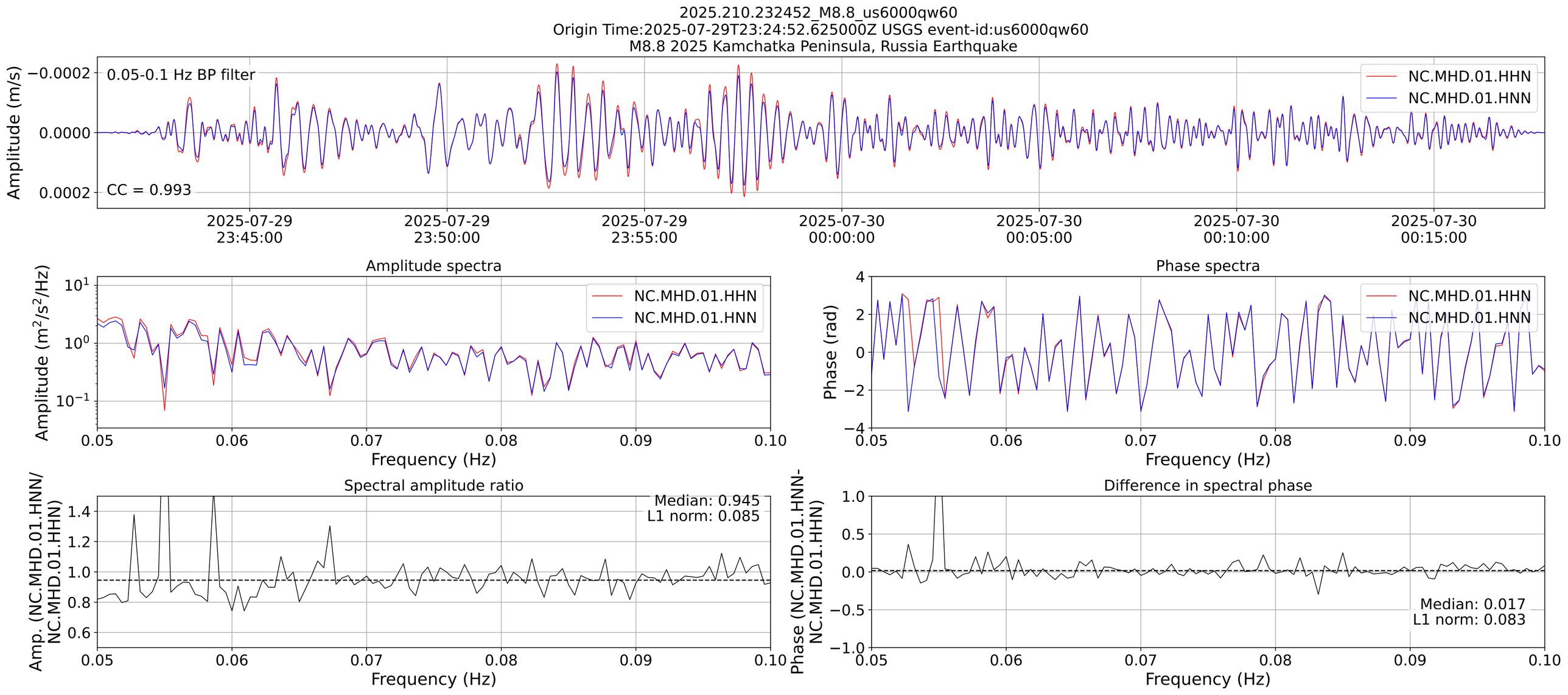

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MDY..HHZ
NC.MDY..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MDY..HNZ/ NC.MDY..HHZ)
Median: 1.007
L1 norm: 0.020
Difference in spectral phase
Phase (NC.MDY..HNZ- NC.MDY..HHZ)
Median: 0.000
L1 norm: 0.020

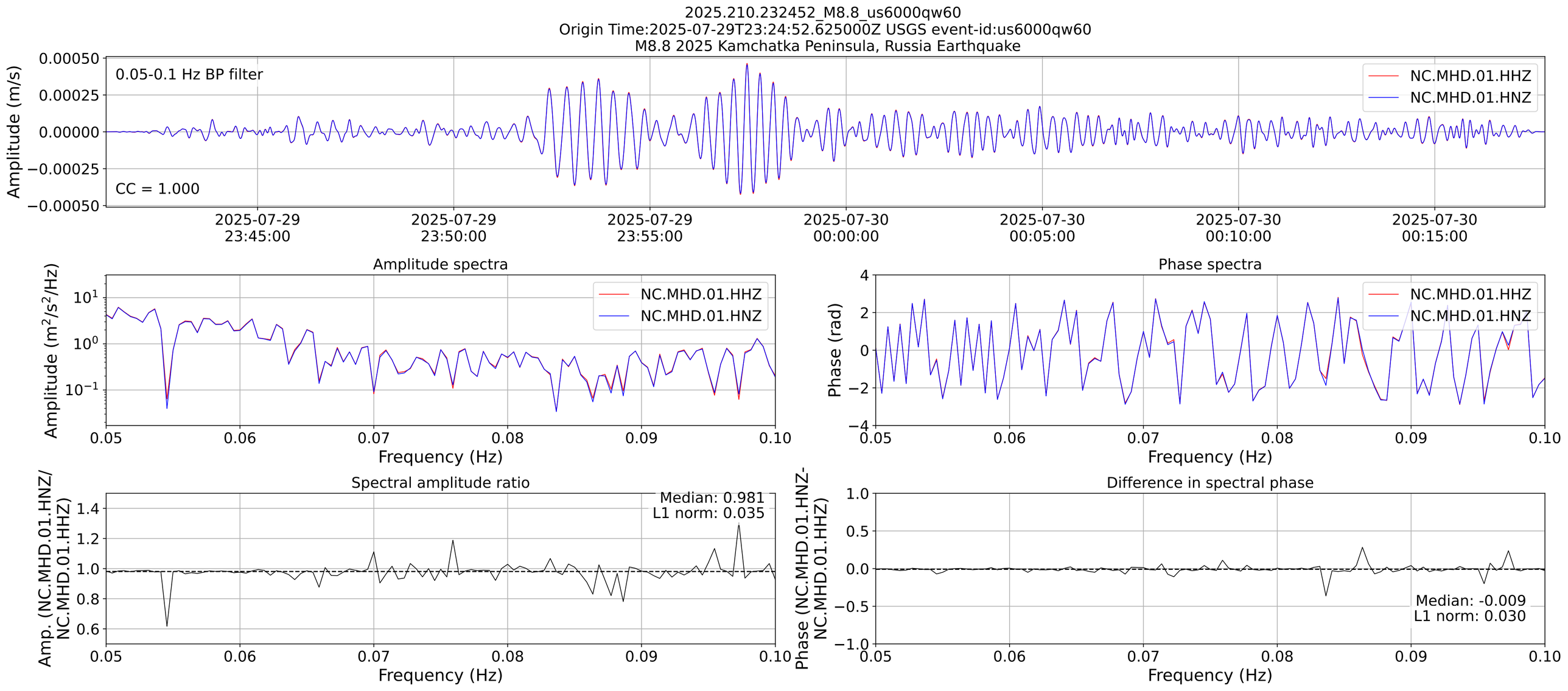

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MFBB.01.HHE
NC.MFBB.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MFBB.01.HNE/ NC.MFBB.01.HHE)
Median: 1.026
L1 norm: 0.027
Difference in spectral phase
Phase (NC.MFBB.01.HNE- NC.MFBB.01.HHE)
Median: 0.002
L1 norm: 0.025

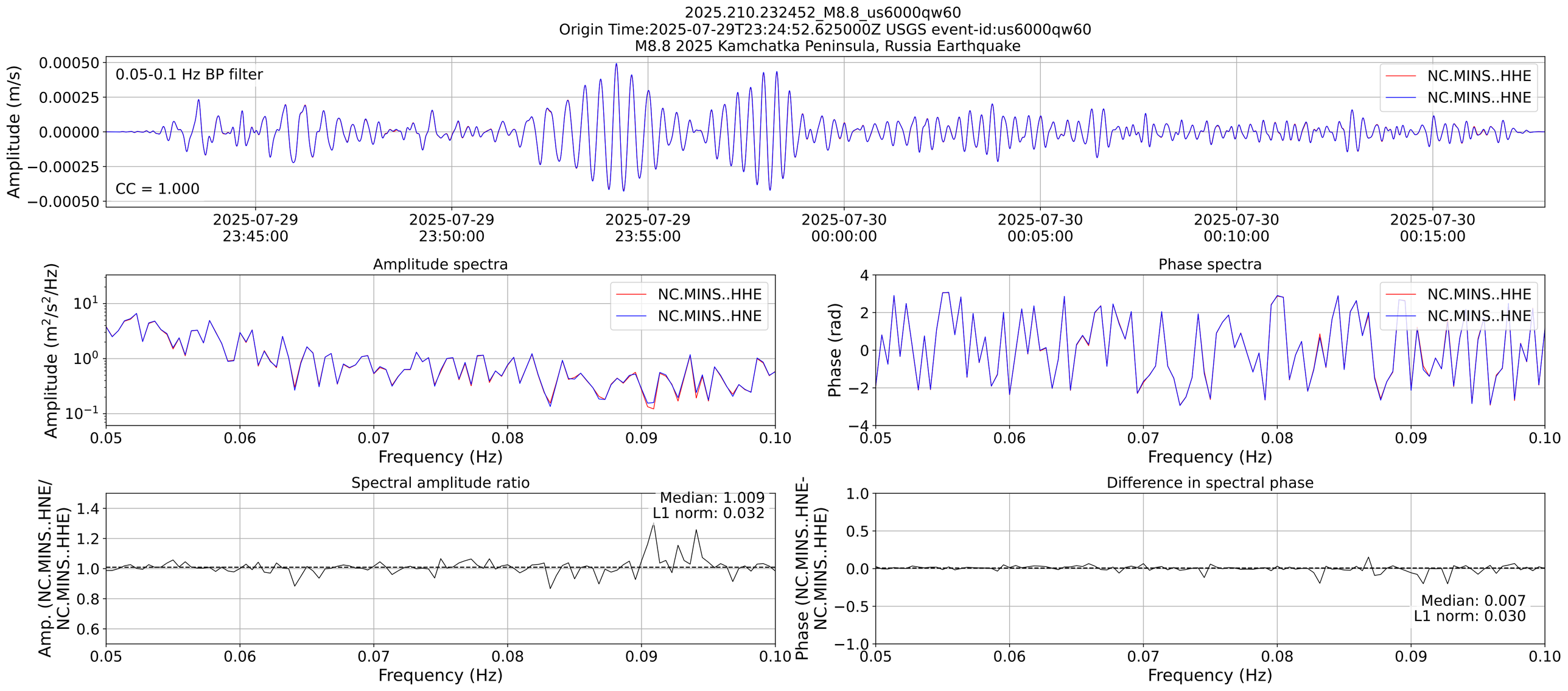

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MFBB.01.HHN
NC.MFBB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MFBB.01.HNN/ NC.MFBB.01.HHN)
Median: 1.007
L1 norm: 0.022
Difference in spectral phase
Phase (NC.MFBB.01.HNN-NC.MFBB.01.HHN)
Median: -0.002
L1 norm: 0.025

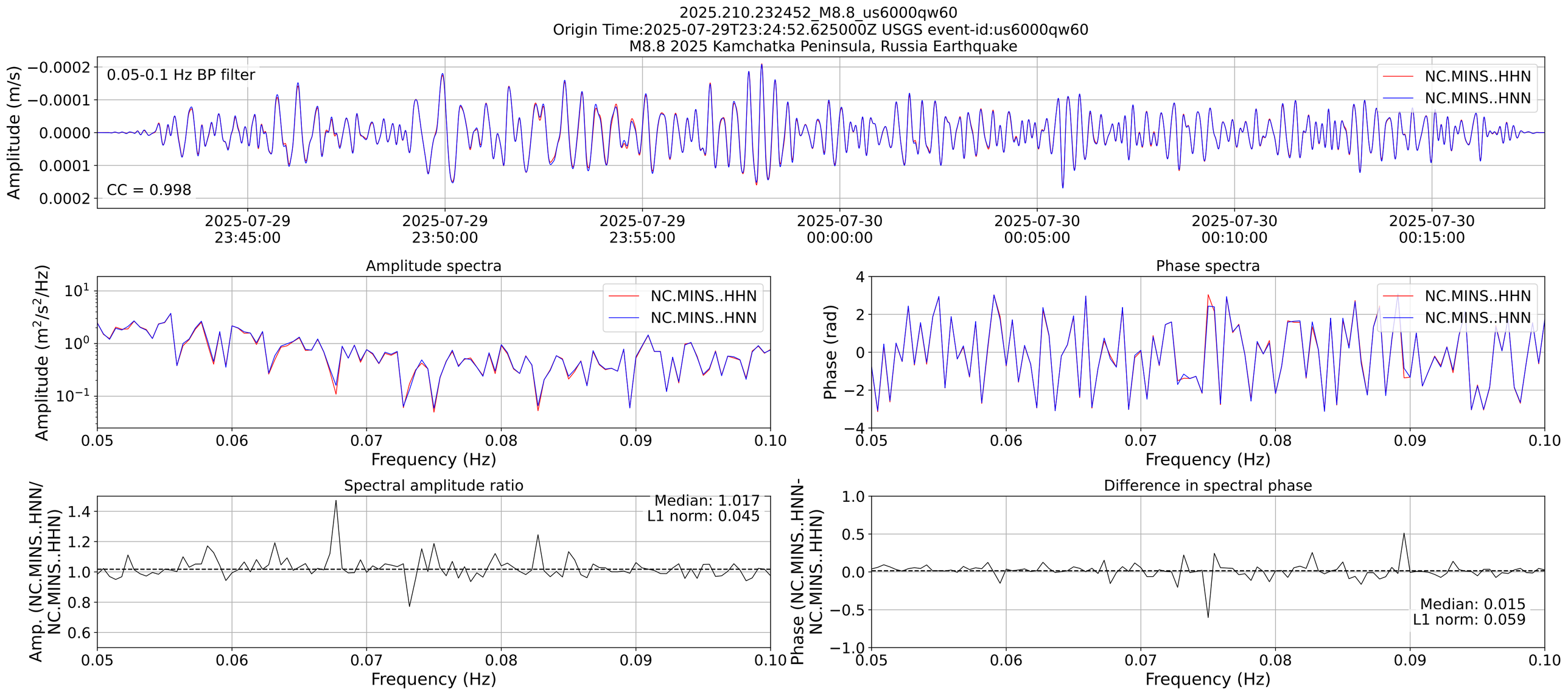

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MFBB.01.HHZ
NC.MFBB.01.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MFBB.01.HNZ/ NC.MFBB.01.HHZ)
Median: 1.009
L1 norm: 0.019
Difference in spectral phase
Phase (NC.MFBB.01.HNZ- NC.MFBB.01.HHZ)
Median: 0.014
L1 norm: 0.031

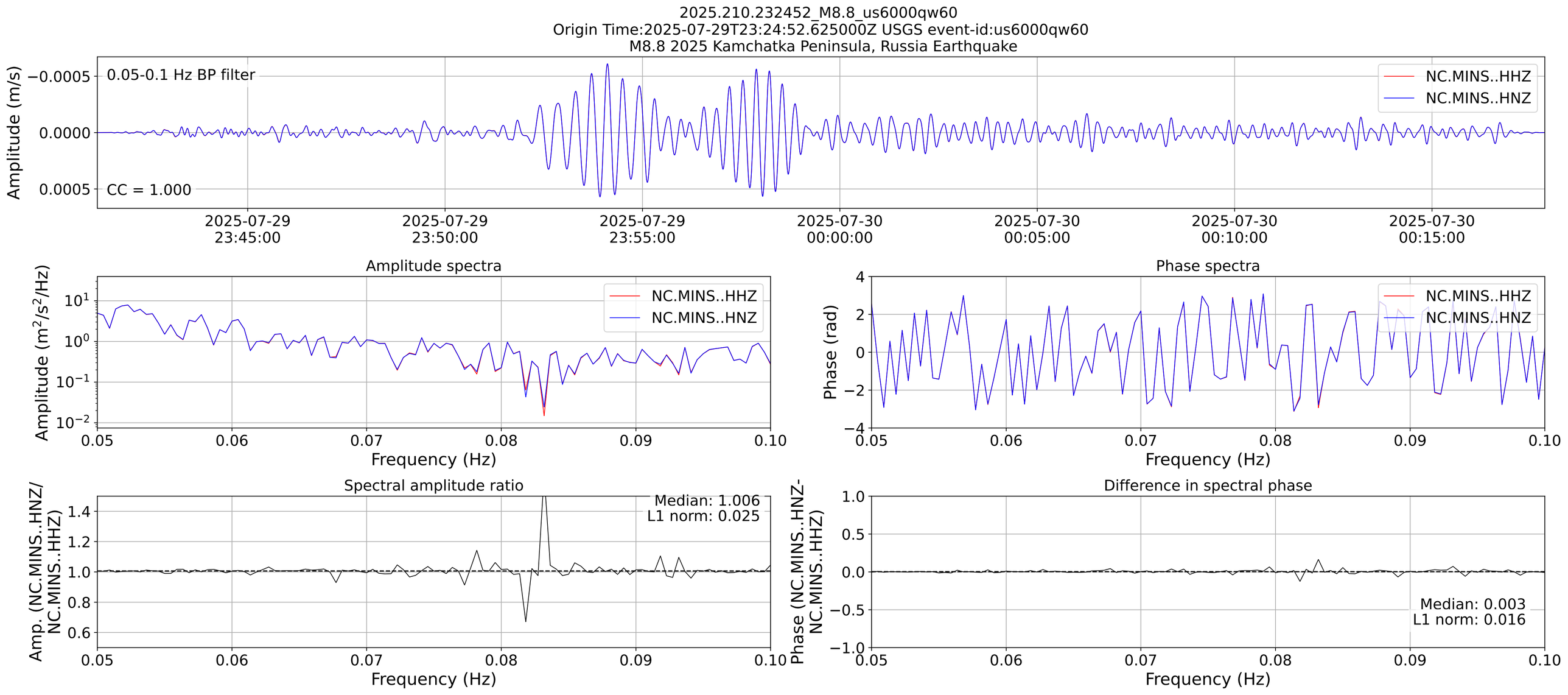

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.MHD.01.HHE
NC.MHD.01.HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MHD.01.HNE/ NC.MHD.01.HHE)
Median: 0.952
L1 norm: 0.128
Difference in spectral phase
Phase (NC.MHD.01.HNE- NC.MHD.01.HHE)
Median: 0.025
L1 norm: 0.102

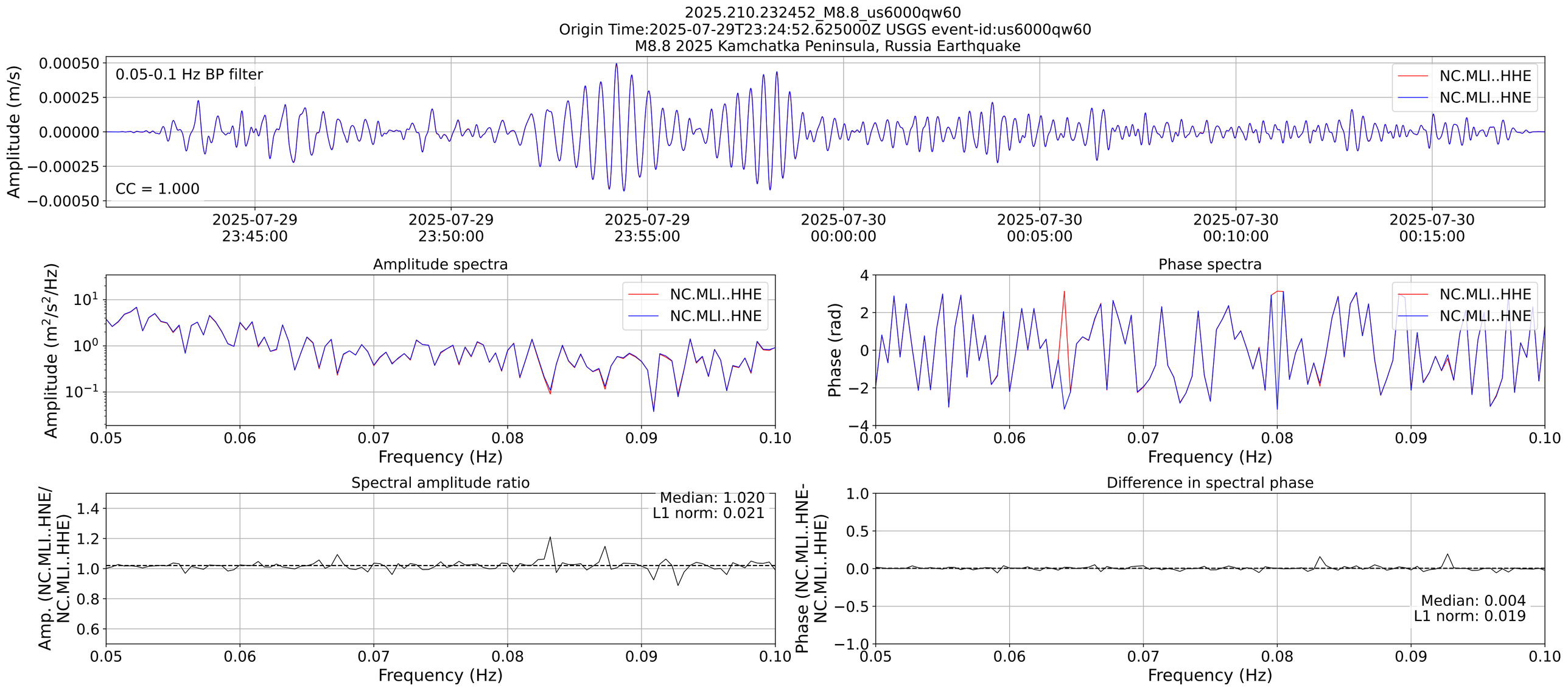

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.993
NC.MHD.01.HHN
NC.MHD.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MHD.01.HNN/ NC.MHD.01.HHN)
Median: 0.945
L1 norm: 0.085
Difference in spectral phase
Phase (NC.MHD.01.HNN- NC.MHD.01.HHN)
Median: 0.017
L1 norm: 0.083

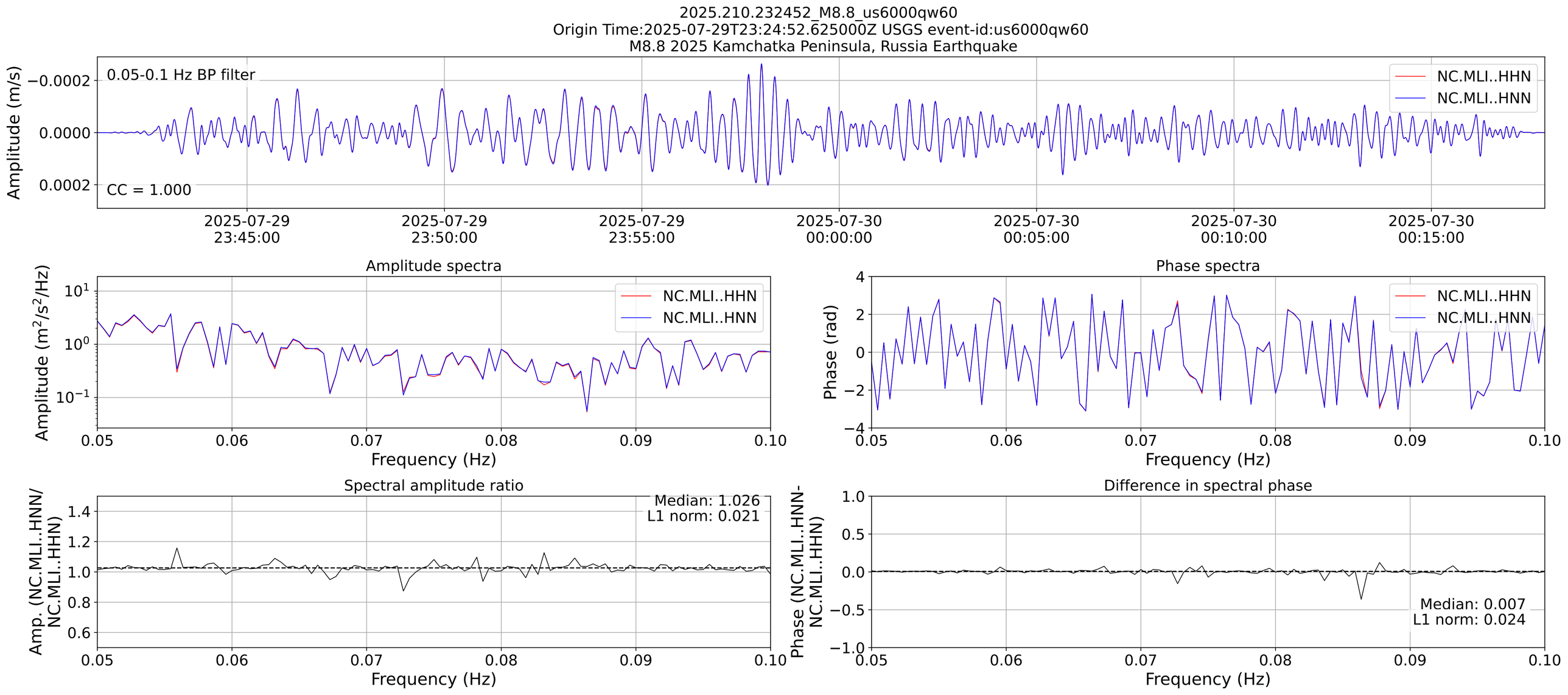

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MHD.01.HHZ
NC.MHD.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MHD.01.HNZ/ NC.MHD.01.HHZ)
Median: 0.981
L1 norm: 0.035
Difference in spectral phase
Phase (NC.MHD.01.HNZ- NC.MHD.01.HHZ)
Median: -0.009
L1 norm: 0.030

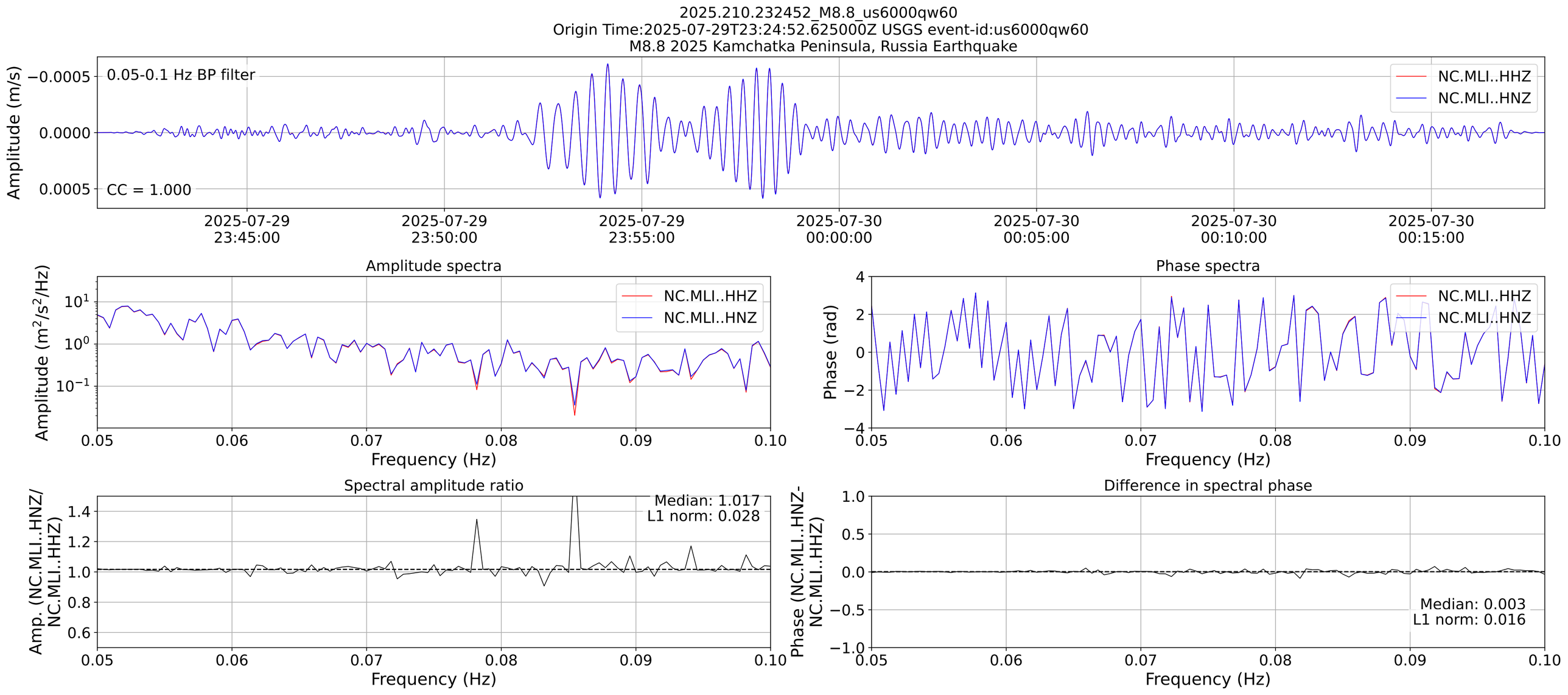

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MINS..HHE
NC.MINS..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MINS..HNE/ NC.MINS..HHE)
Median: 1.009
L1 norm: 0.032
Difference in spectral phase
Phase (NC.MINS..HNE- NC.MINS..HHE)
Median: 0.007
L1 norm: 0.030

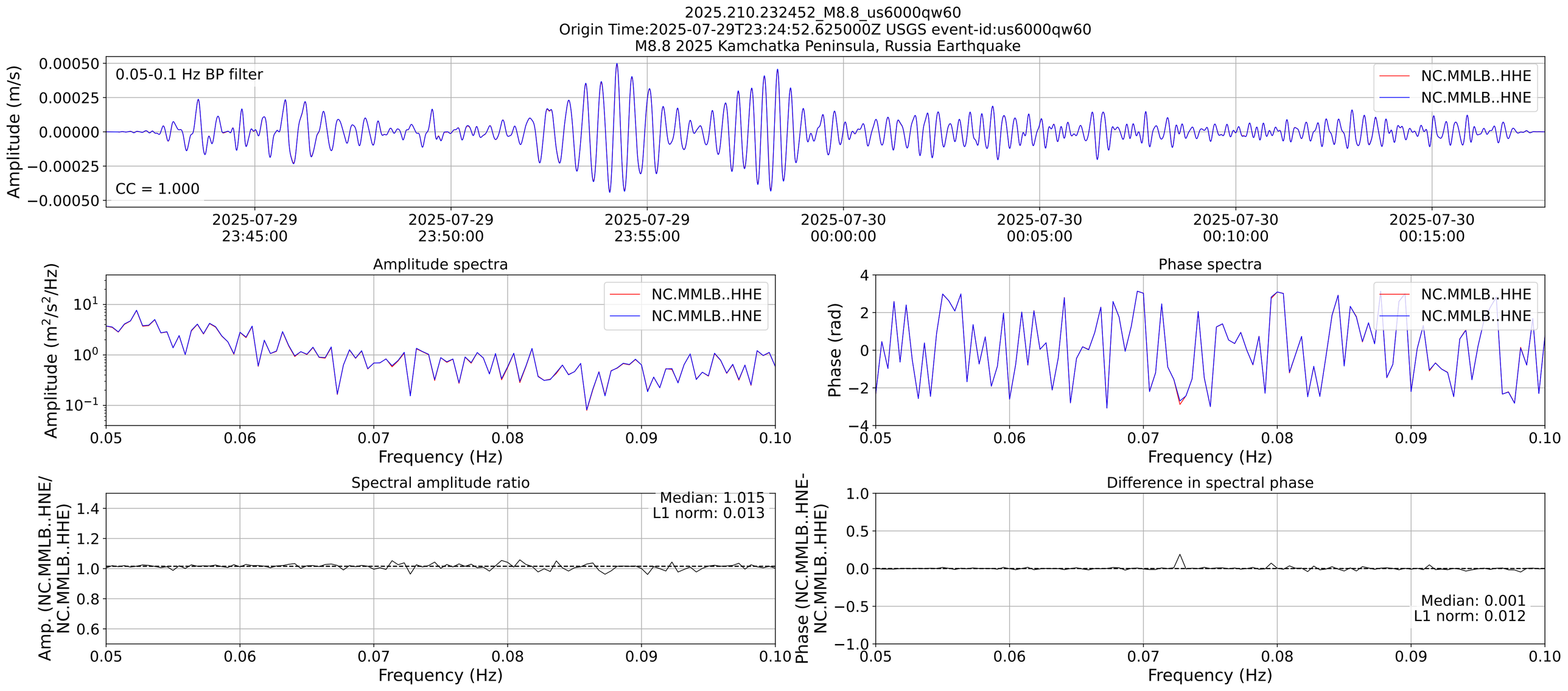

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.998
NC.MINS..HHN
NC.MINS..HNN
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.MINS..HNN/ NC.MINS..HHN)
Median: 1.017
L1 norm: 0.045
Difference in spectral phase
Phase (NC.MINS..HNN- NC.MINS..HHN)
Median: 0.015
L1 norm: 0.059

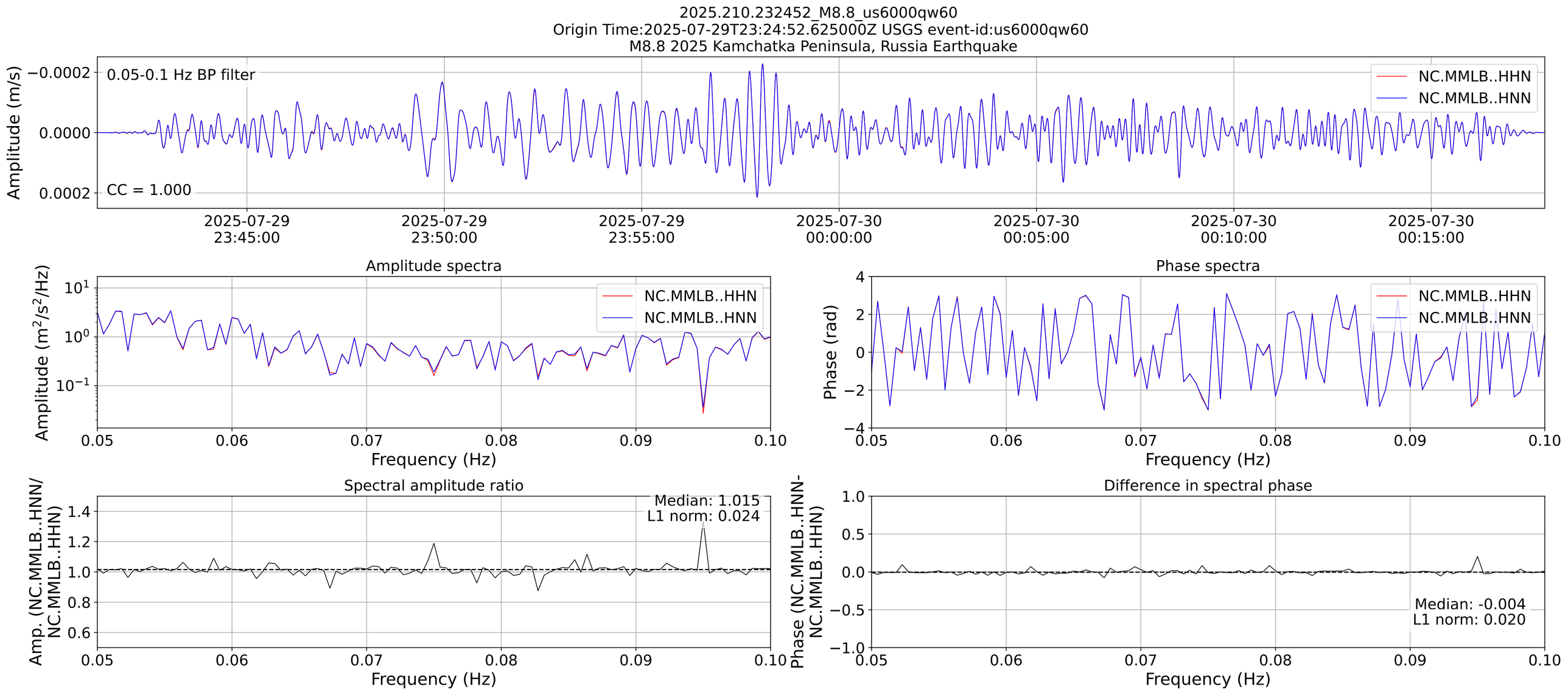

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MINS..HHZ
NC.MINS..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MINS..HNZ/ NC.MINS..HHZ)
Median: 1.006
L1 norm: 0.025
Difference in spectral phase
Phase (NC.MINS..HNZ-NC.MINS..HHZ)
Median: 0.003
L1 norm: 0.016

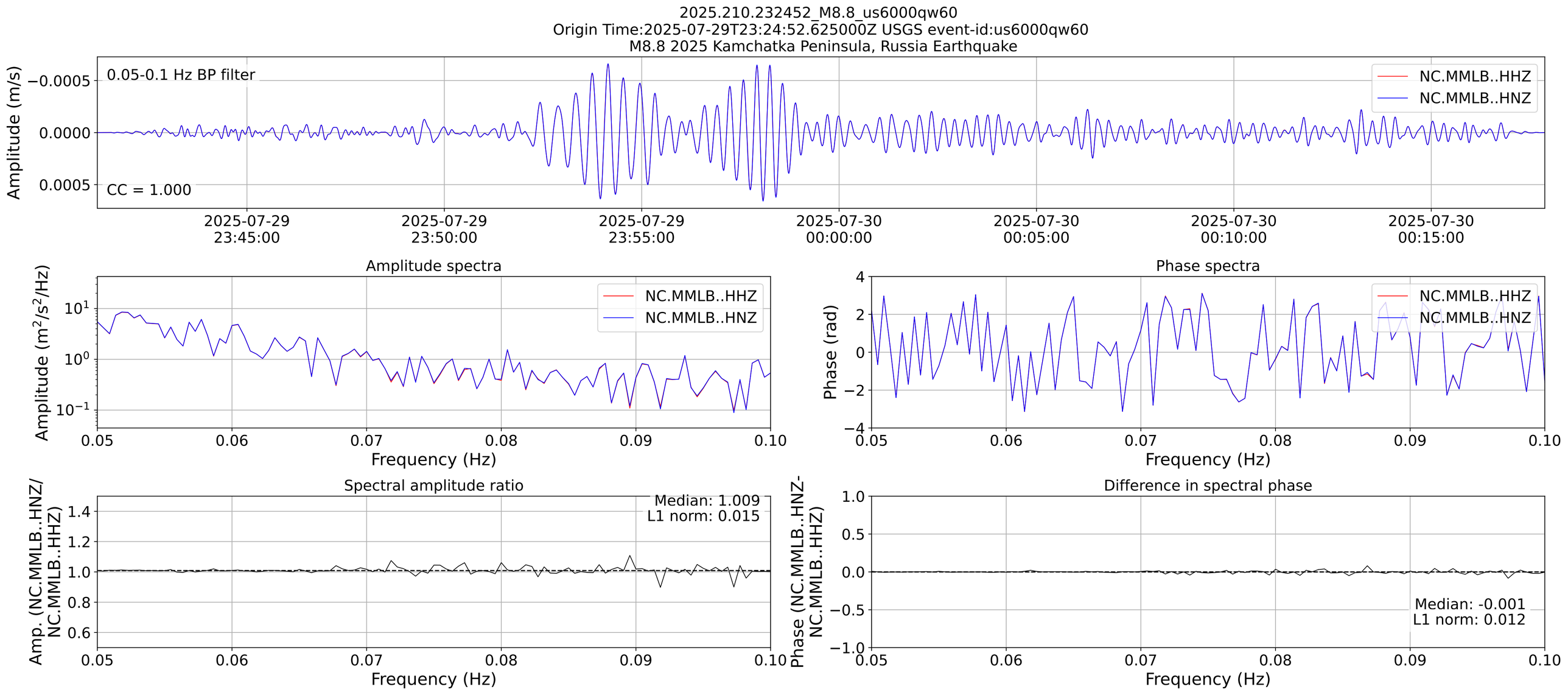

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MLI..HHE
NC.MLI..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MLI..HNE/ NC.MLI..HHE)
Median: 1.020
L1 norm: 0.021
Difference in spectral phase
Phase (NC.MLI..HNE- NC.MLI..HHE)
Median: 0.004
L1 norm: 0.019

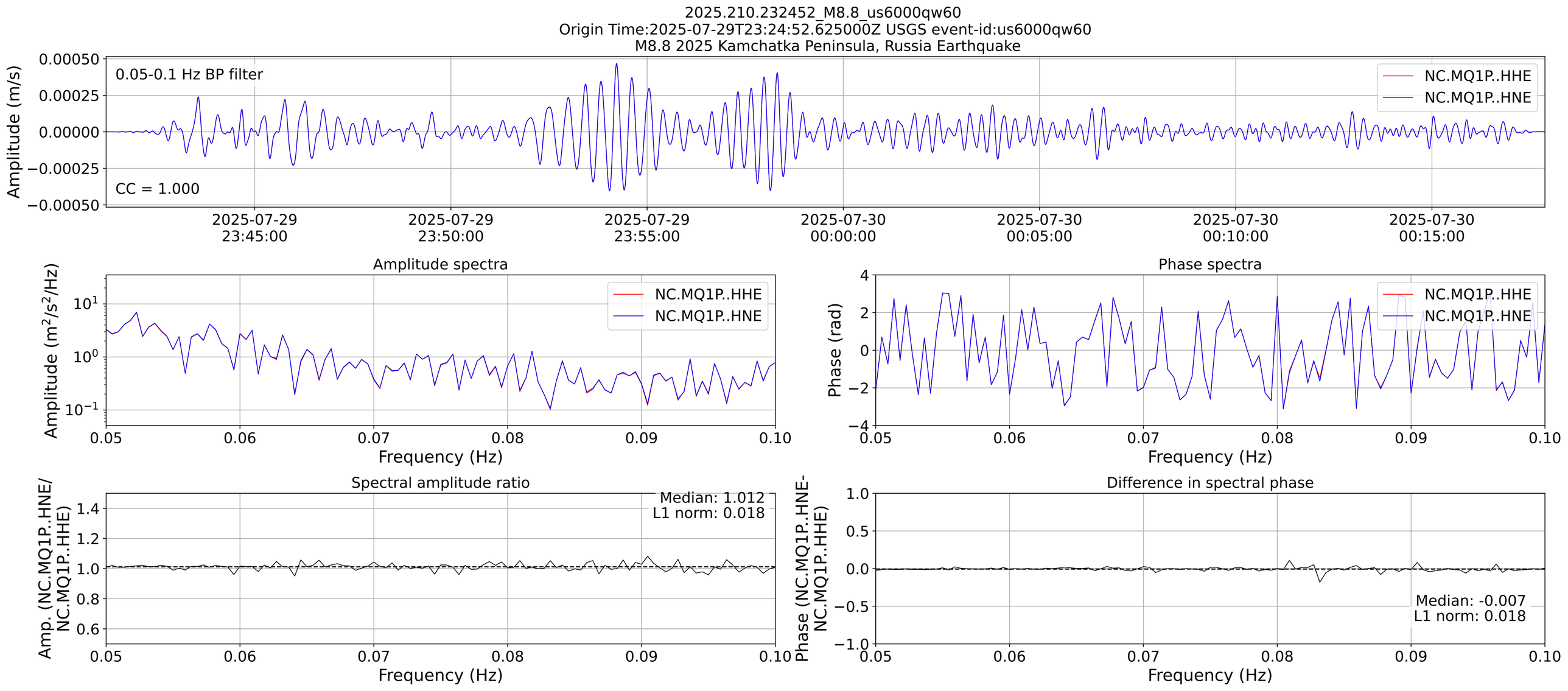

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MLI..HHN
NC.MLI..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MLI..HNN/ NC.MLI..HHN)
Median: 1.026
L1 norm: 0.021
Difference in spectral phase
Phase (NC.MLI..HNN- NC.MLI..HHN)
Median: 0.007
L1 norm: 0.024

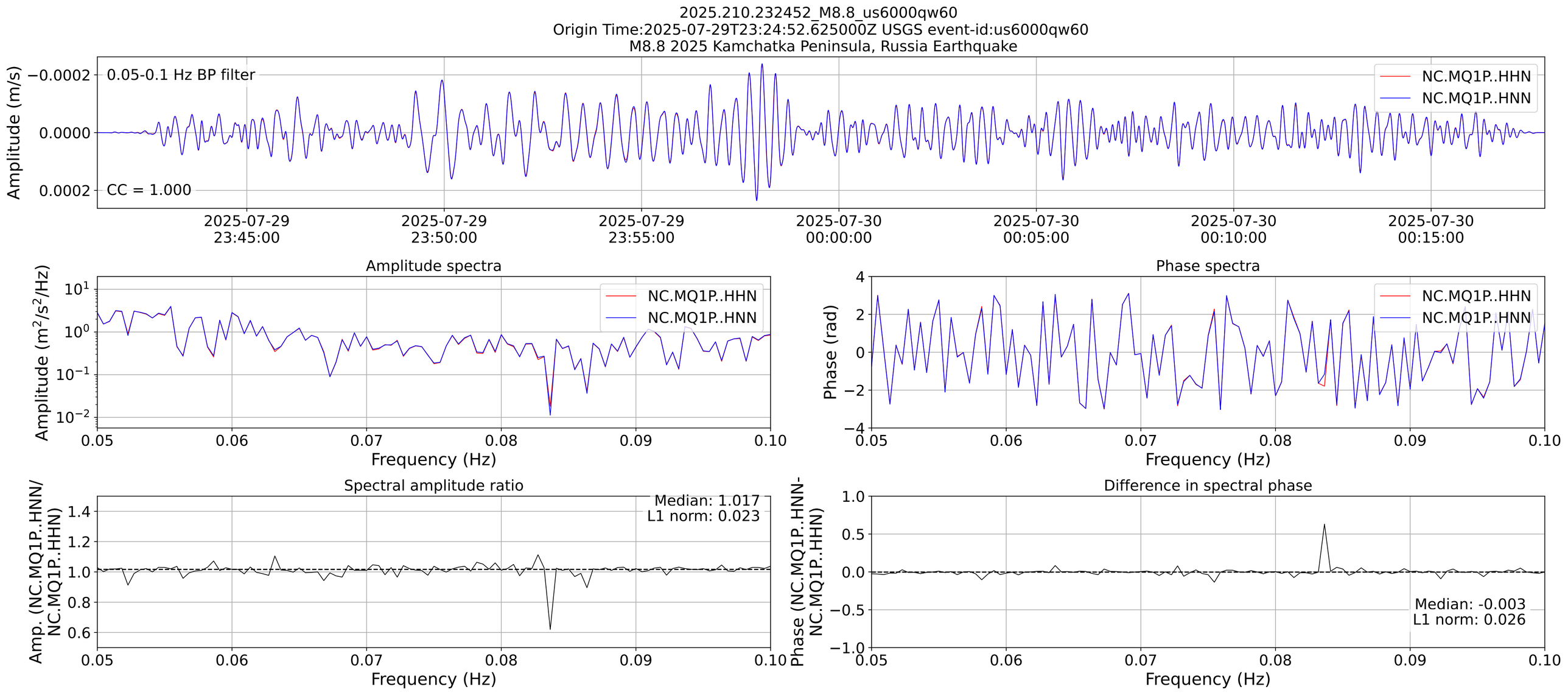

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MLI..HHZ
NC.MLI..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MLI..HNZ/ NC.MLI..HHZ)
Median: 1.017
L1 norm: 0.028
Difference in spectral phase
Phase (NC.MLI..HNZ- NC.MLI..HHZ)
Median: 0.003
L1 norm: 0.016

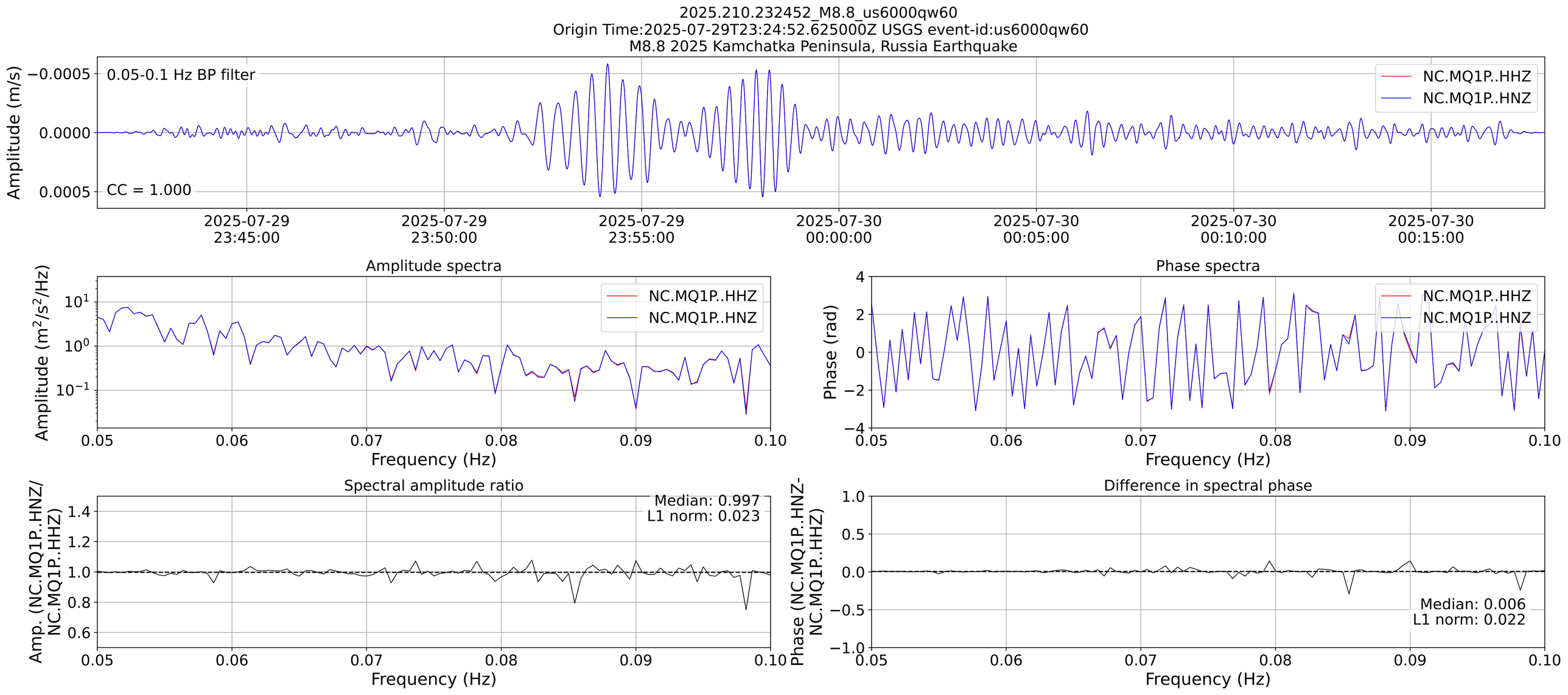

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MMLB..HHE
NC.MMLB..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MMLB..HNE/ NC.MMLB..HHE)
Median: 1.015
L1 norm: 0.013
Difference in spectral phase
Phase (NC.MMLB..HNE- NC.MMLB..HHE)
Median: 0.001
L1 norm: 0.012

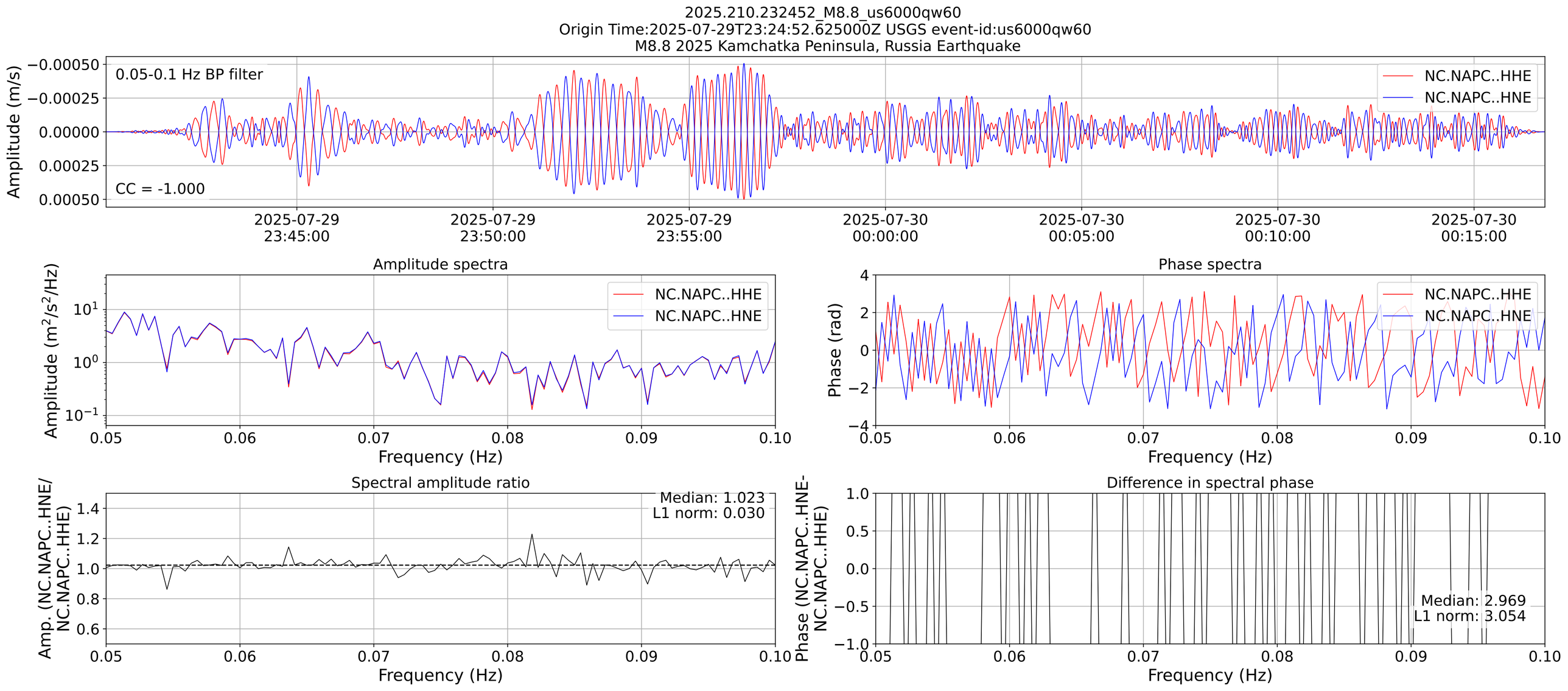

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MMLB..HHN
NC.MMLB..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MMLB..HNN/ NC.MMLB..HHN)
Median: 1.015
L1 norm: 0.024
Difference in spectral phase
Phase (NC.MMLB..HNN- NC.MMLB..HHN)
Median: -0.004
L1 norm: 0.020

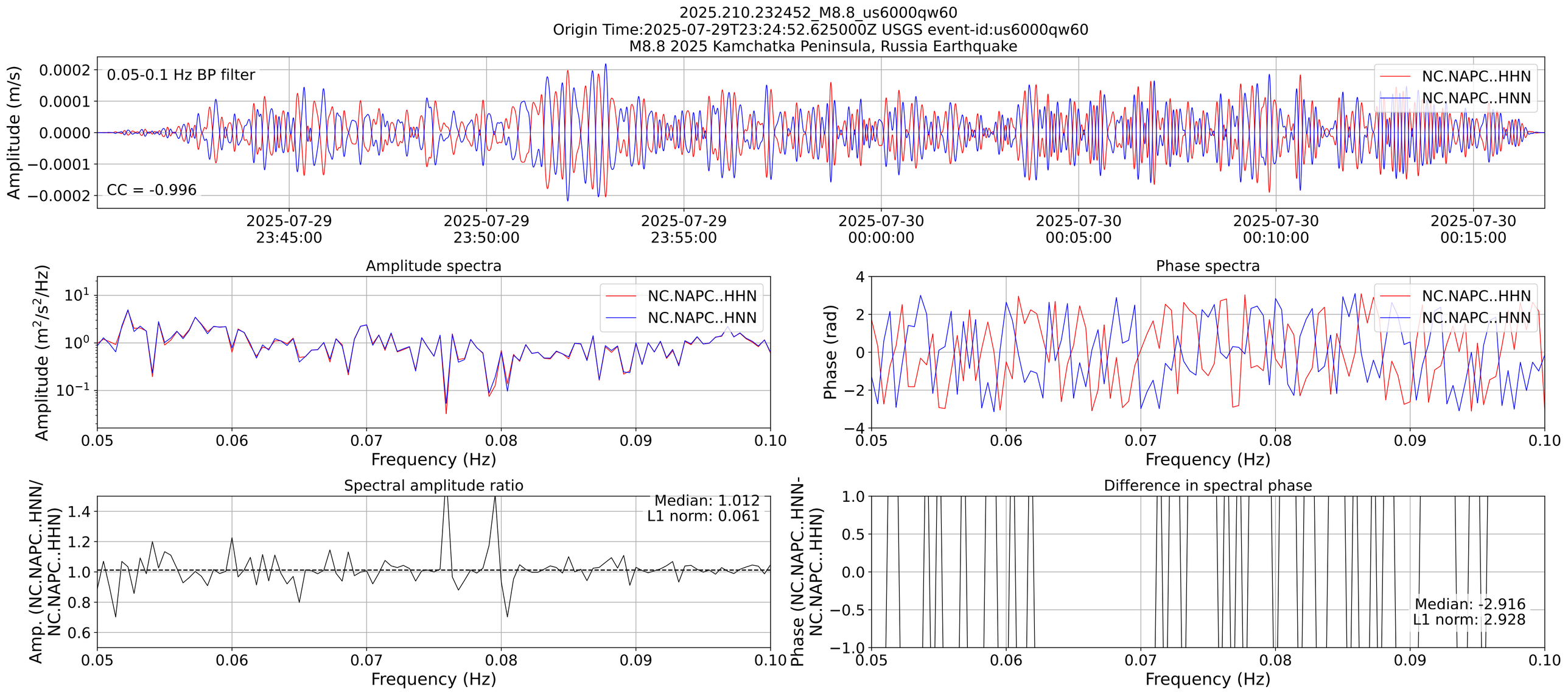

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MMLB..HHZ
NC.MMLB..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MMLB..HNZ/ NC.MMLB..HHZ)
Median: 1.009
L1 norm: 0.015
Difference in spectral phase
Phase (NC.MMLB..HNZ- NC.MMLB..HHZ)
Median: -0.001
L1 norm: 0.012

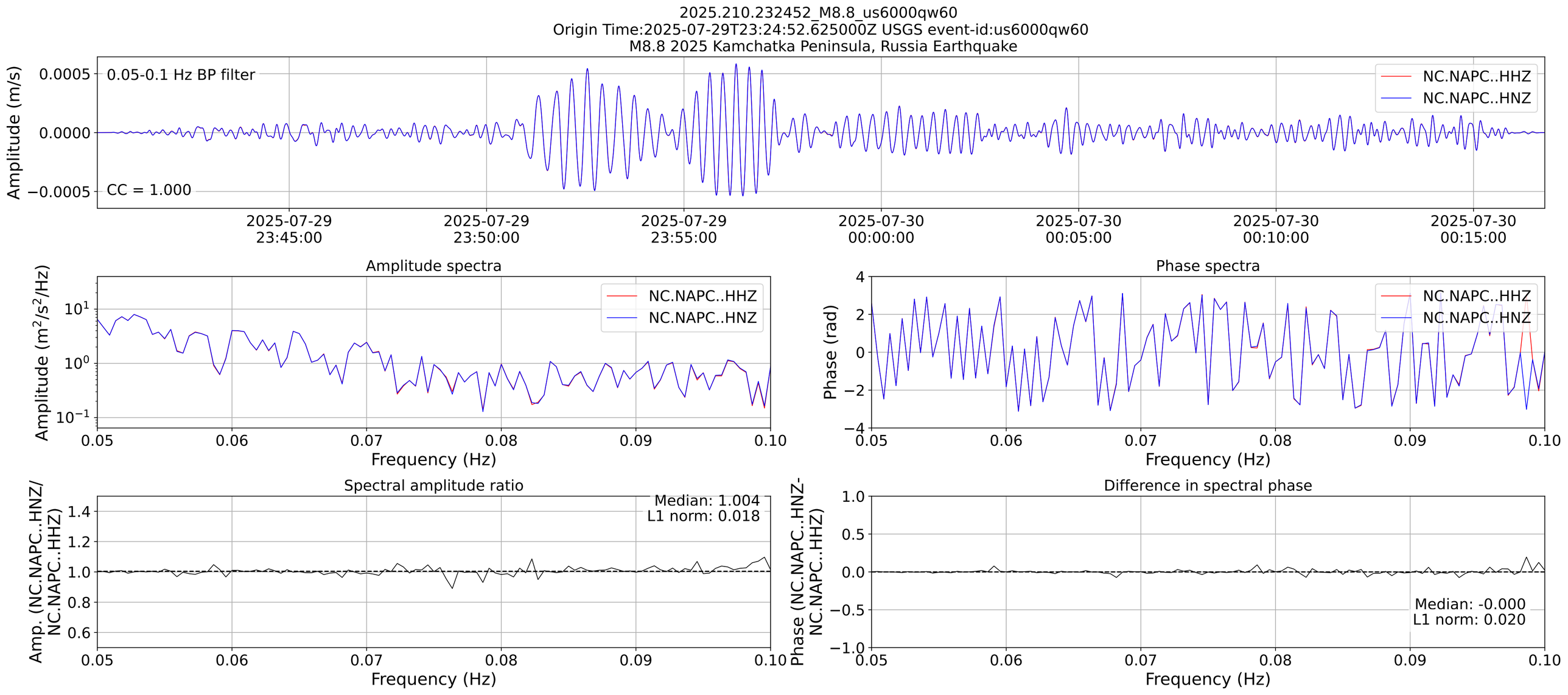

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MQ1P..HHE
NC.MQ1P..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.MQ1P..HNE/ NC.MQ1P..HHE)
Median: 1.012
L1 norm: 0.018
Difference in spectral phase
Phase (NC.MQ1P..HNE- NC.MQ1P..HHE)
Median: -0.007
L1 norm: 0.018

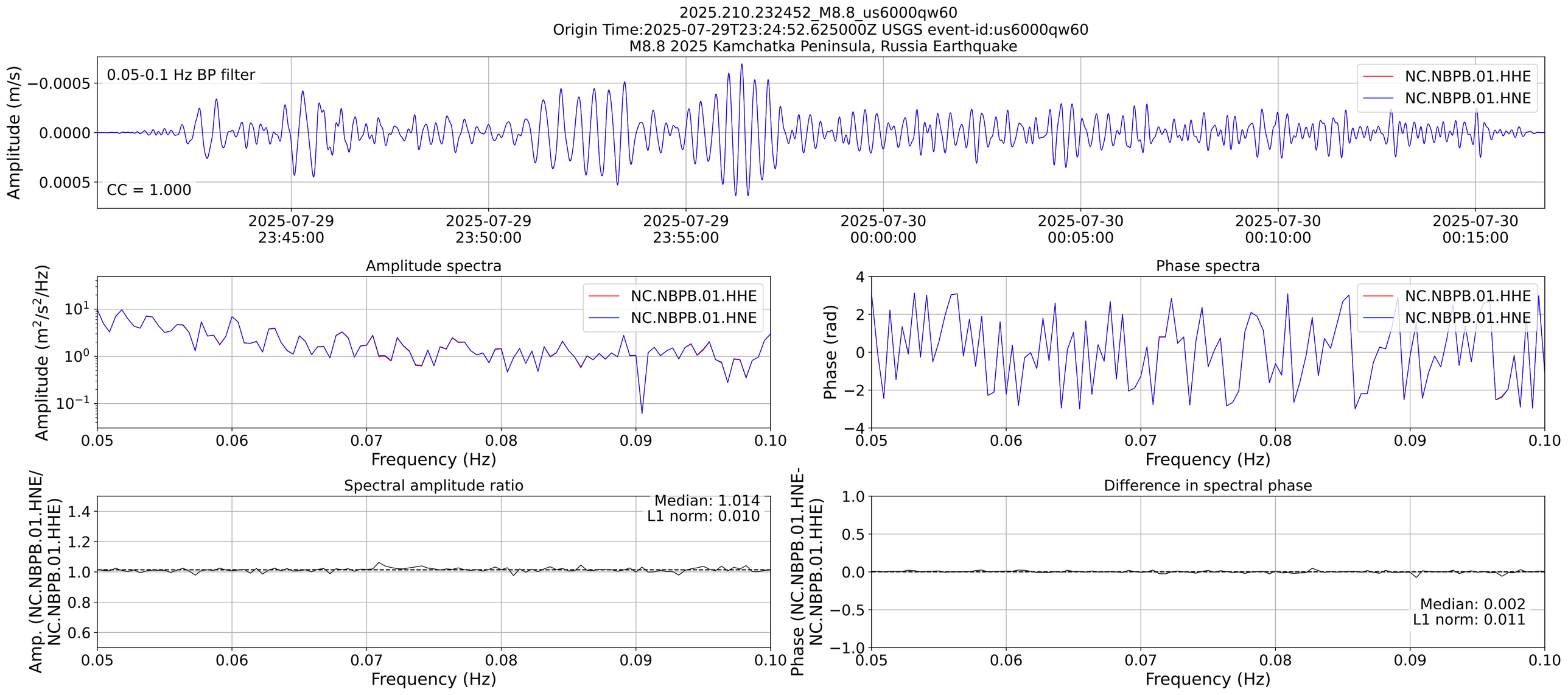

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MQ1P..HHN
NC.MQ1P..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MQ1P..HNN/ NC.MQ1P..HHN)
Median: 1.017
L1 norm: 0.023
Difference in spectral phase
Phase (NC.MQ1P..HNN- NC.MQ1P..HHN)
Median: -0.003
L1 norm: 0.026

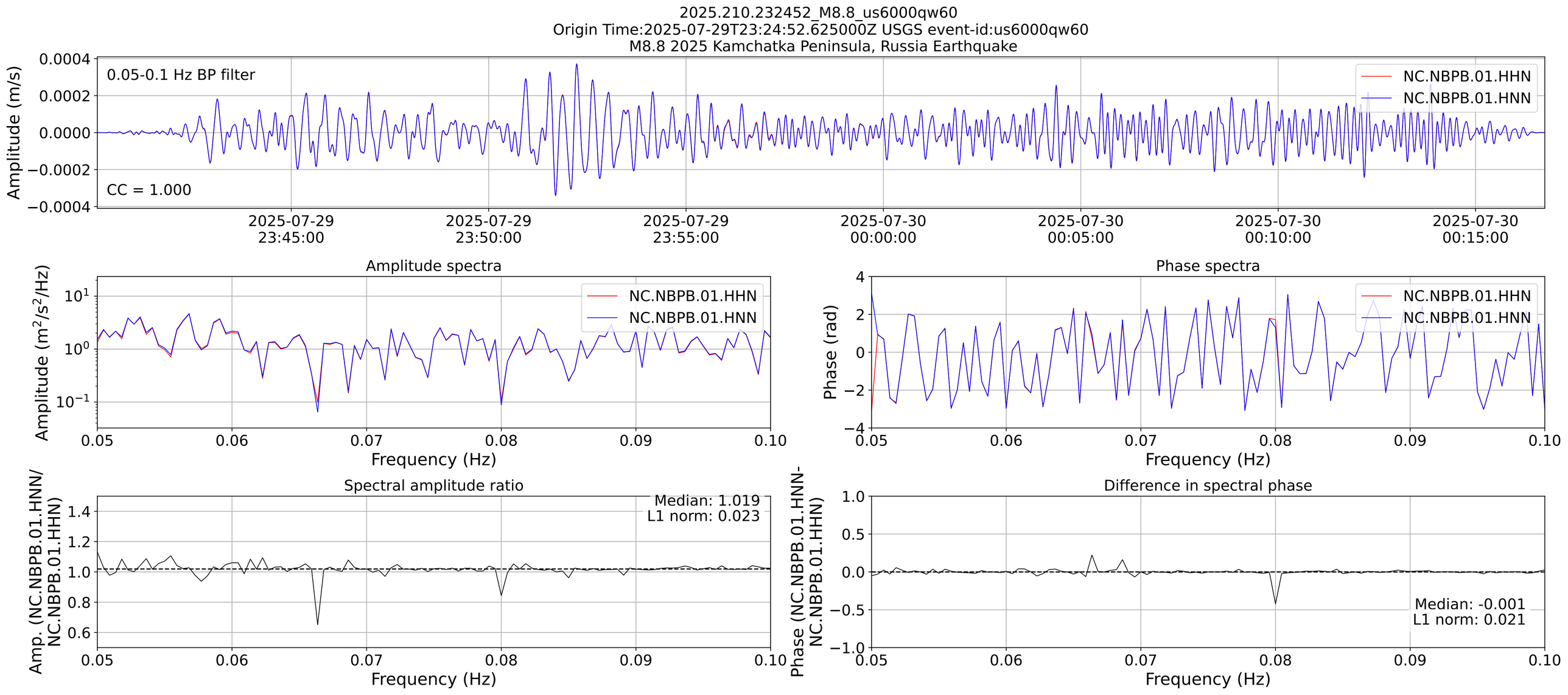

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.MQ1P..HHZ
NC.MQ1P..HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.MQ1P..HNZ/ NC.MQ1P..HHZ)
Median: 0.997
L1 norm: 0.023
Difference in spectral phase
Phase (NC.MQ1P..HNZ- NC.MQ1P..HHZ)
Median: 0.006
L1 norm: 0.022

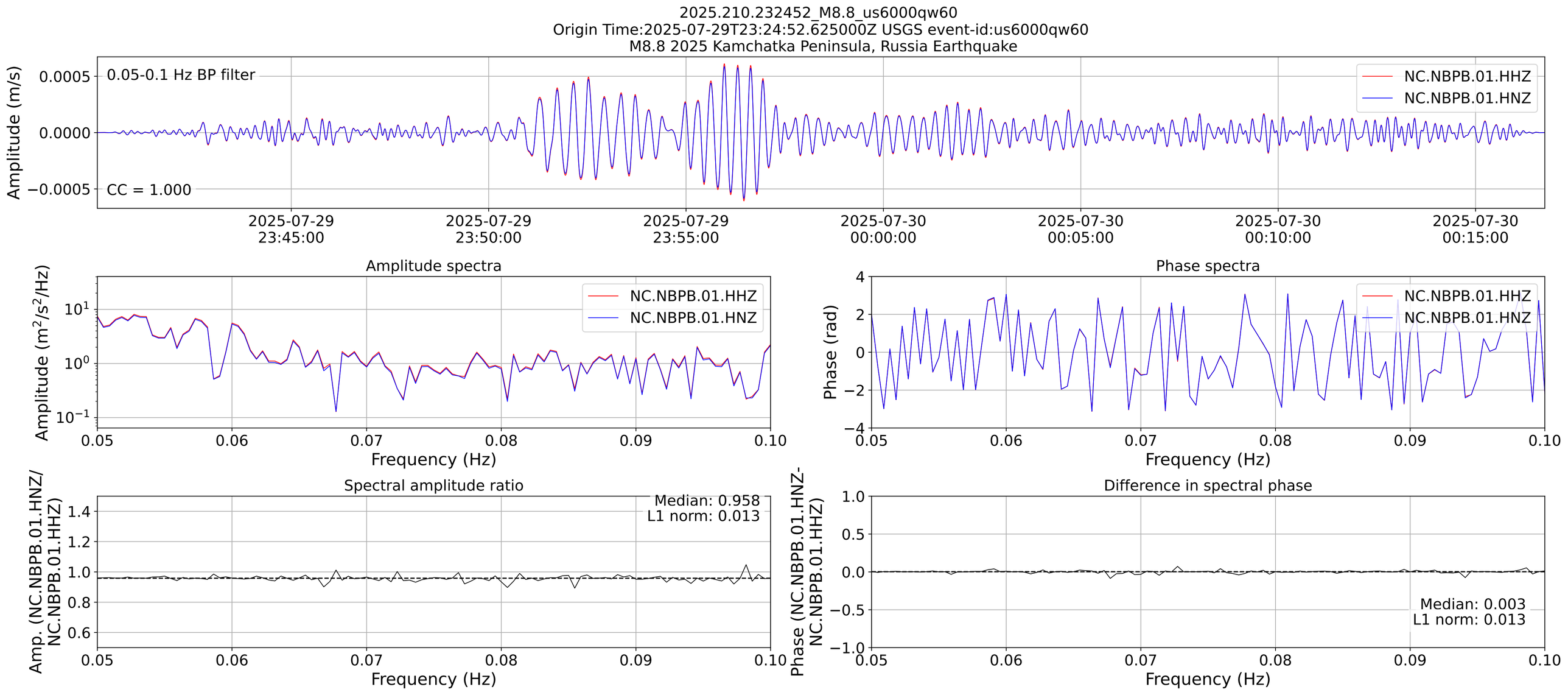

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -1.000
NC.NAPC..HHE
NC.NAPC..HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NAPC..HNE/ NC.NAPC..HHE)
Median: 1.023
L1 norm: 0.030
Difference in spectral phase
Phase (NC.NAPC..HNE- NC.NAPC..HHE)
Median: 2.969
L1 norm: 3.054

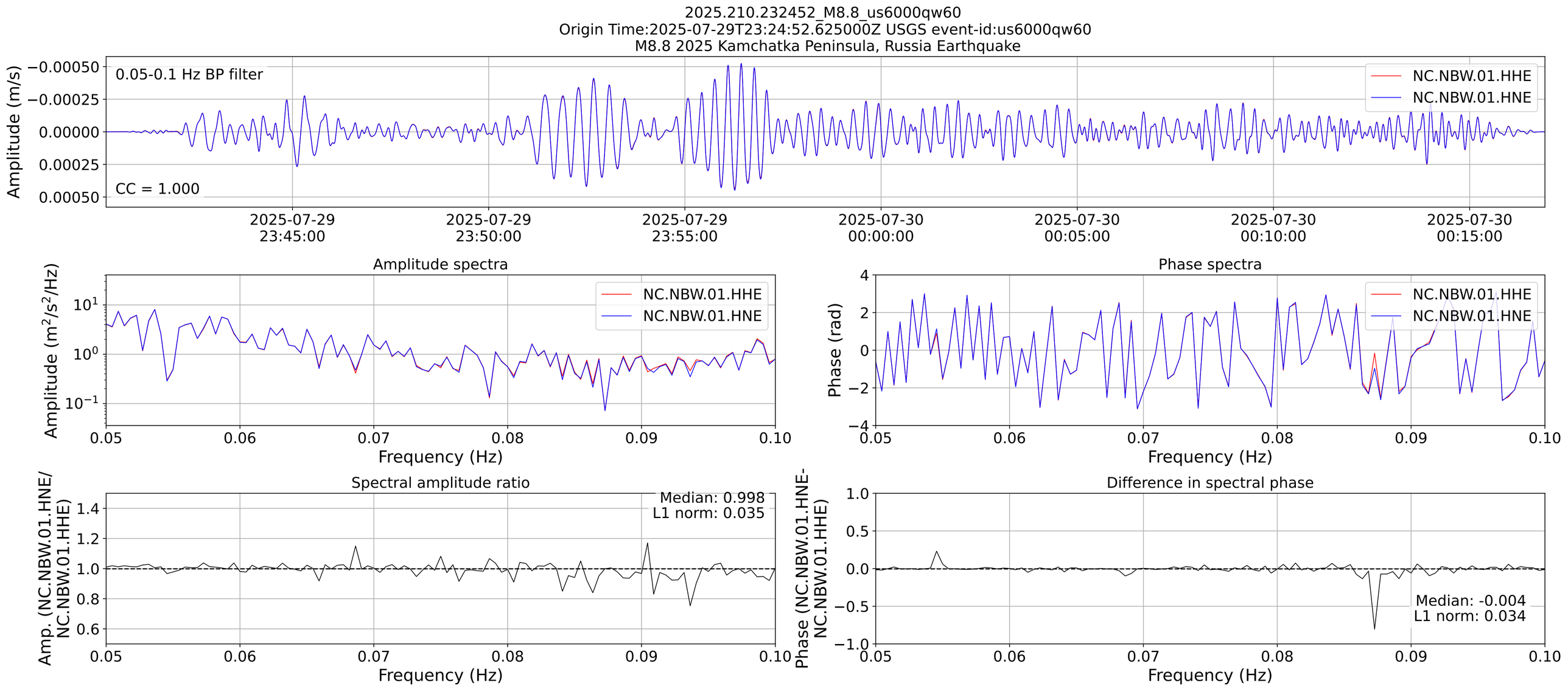

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.996
NC.NAPC..HHN
NC.NAPC..HNN
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.NAPC..HNN/ NC.NAPC..HHN)
Median: 1.012
L1 norm: 0.061
Difference in spectral phase
Phase (NC.NAPC..HNN- NC.NAPC..HHN)
Median: -2.916
L1 norm: 2.928

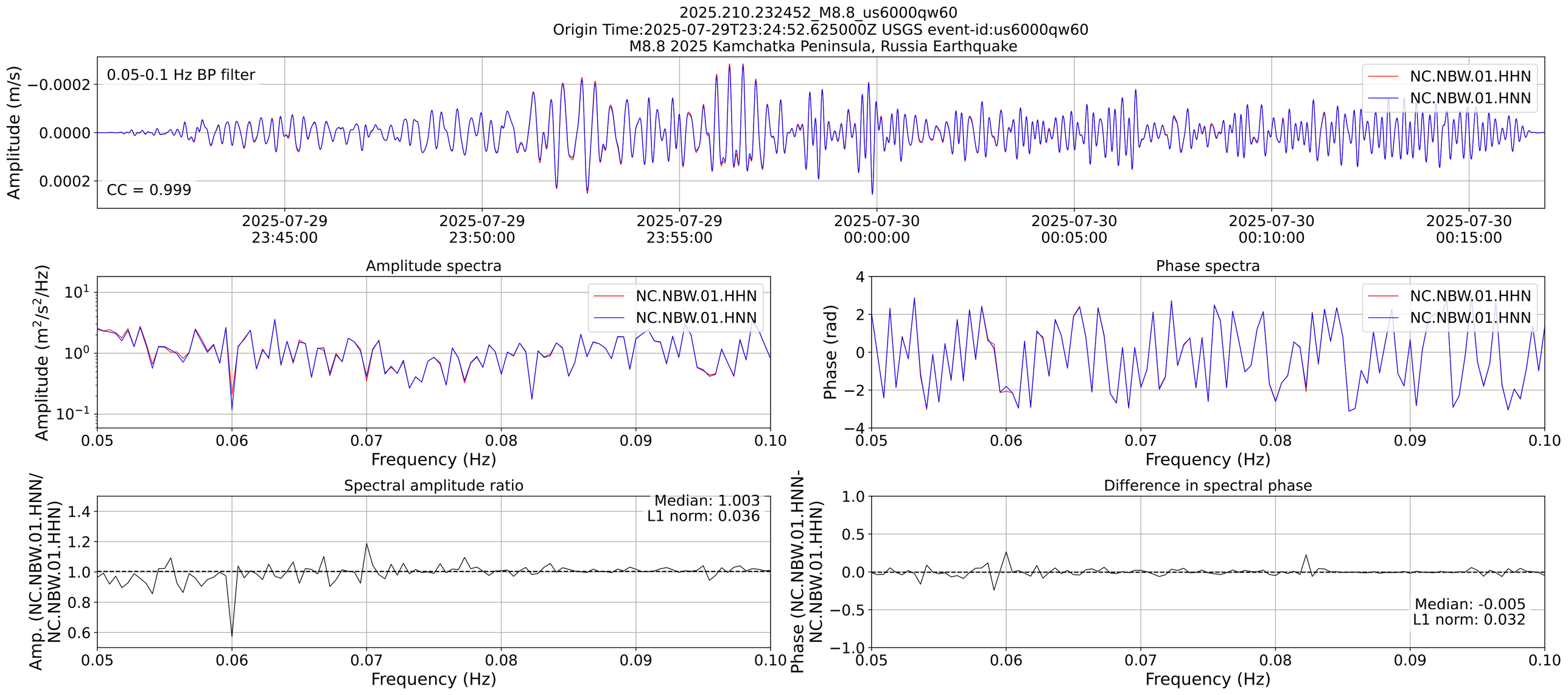

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NAPC..HHZ
NC.NAPC..HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NAPC..HNZ/ NC.NAPC..HHZ)
Median: 1.004
L1 norm: 0.018
Difference in spectral phase
Phase (NC.NAPC..HNZ- NC.NAPC..HHZ)
Median: -0.000
L1 norm: 0.020

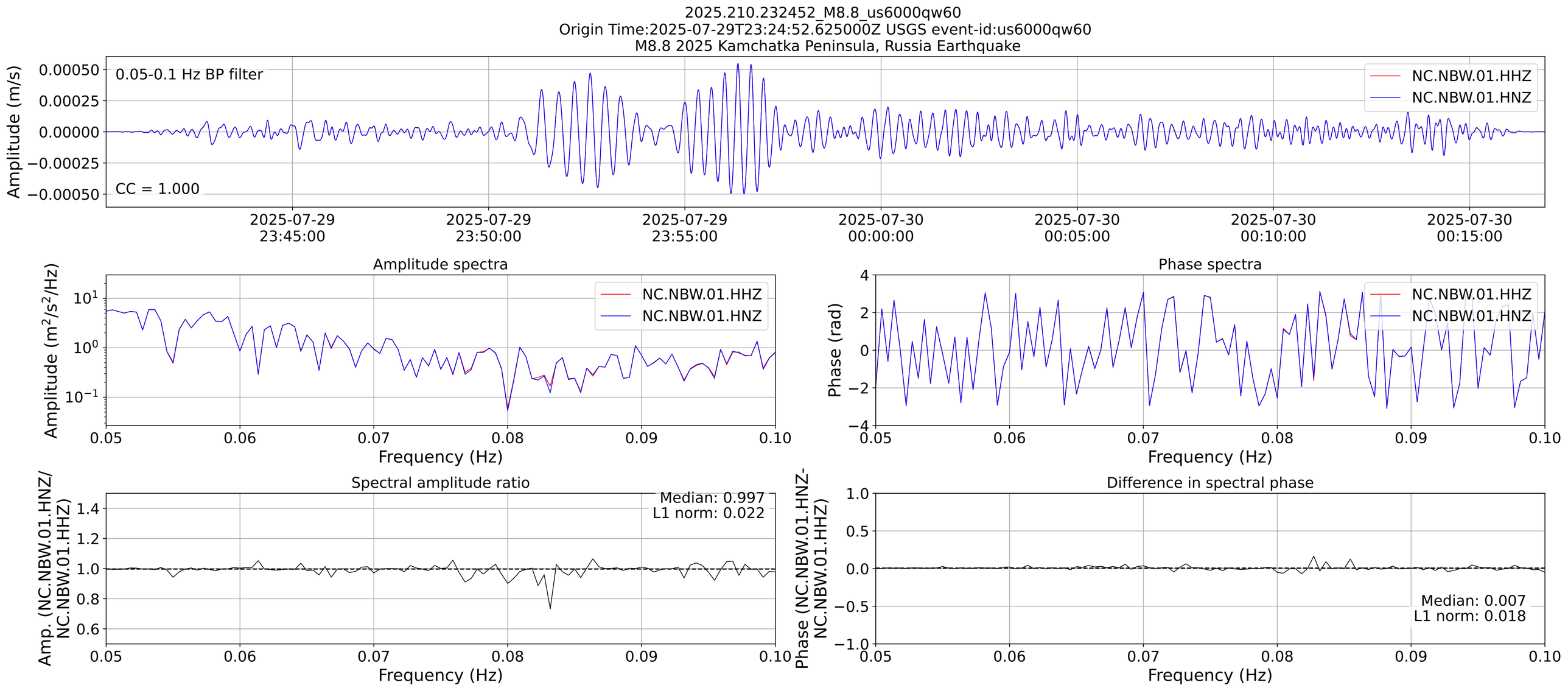

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NBPB.01.HHE
NC.NBPB.01.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NBPB.01.HNE/ NC.NBPB.01.HHE)
Median: 1.014
L1 norm: 0.010
Difference in spectral phase
Phase (NC.NBPB.01.HNE- NC.NBPB.01.HHE)
Median: 0.002
L1 norm: 0.011

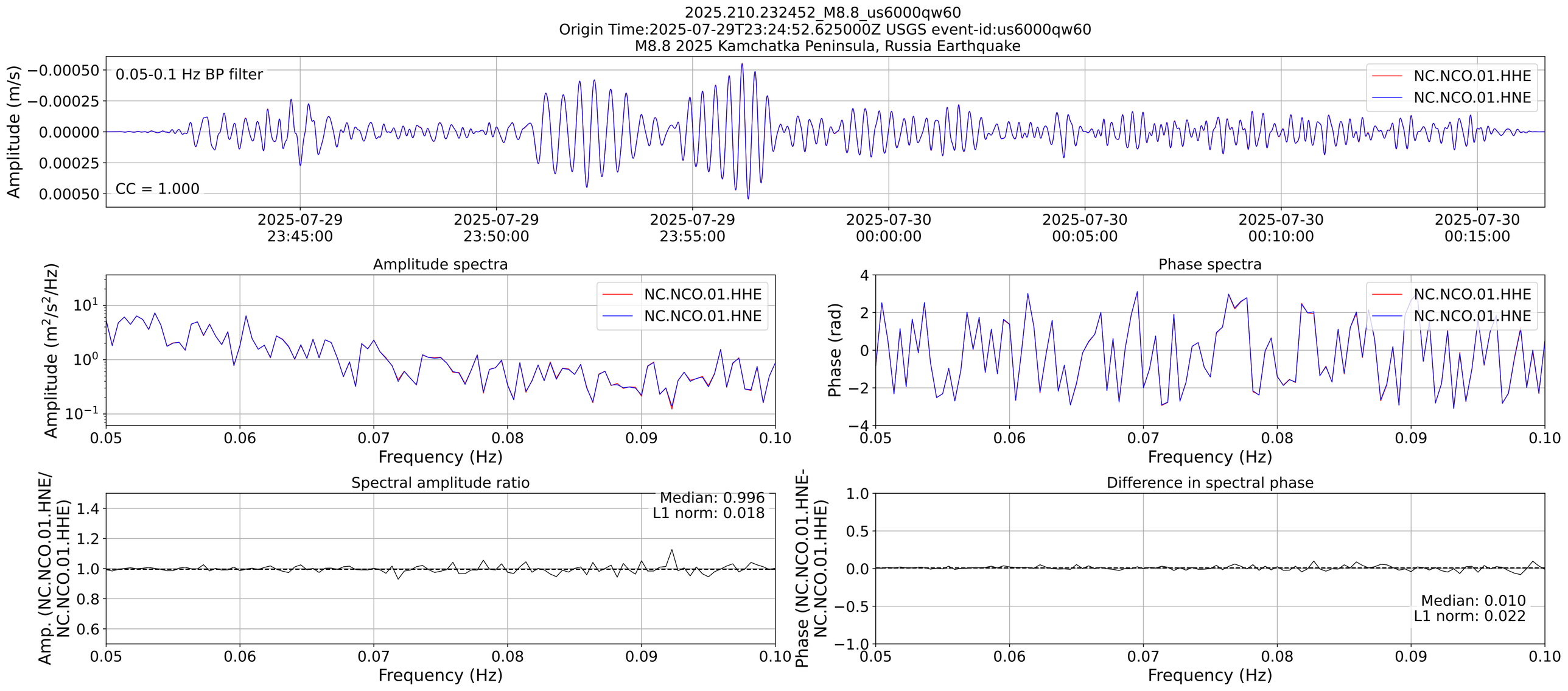

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NBPB.01.HHN
NC.NBPB.01.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NBPB.01.HNN/ NC.NBPB.01.HHN)
Median: 1.019
L1 norm: 0.023
Difference in spectral phase
Phase (NC.NBPB.01.HNN- NC.NBPB.01.HHN)
Median: -0.001
L1 norm: 0.021

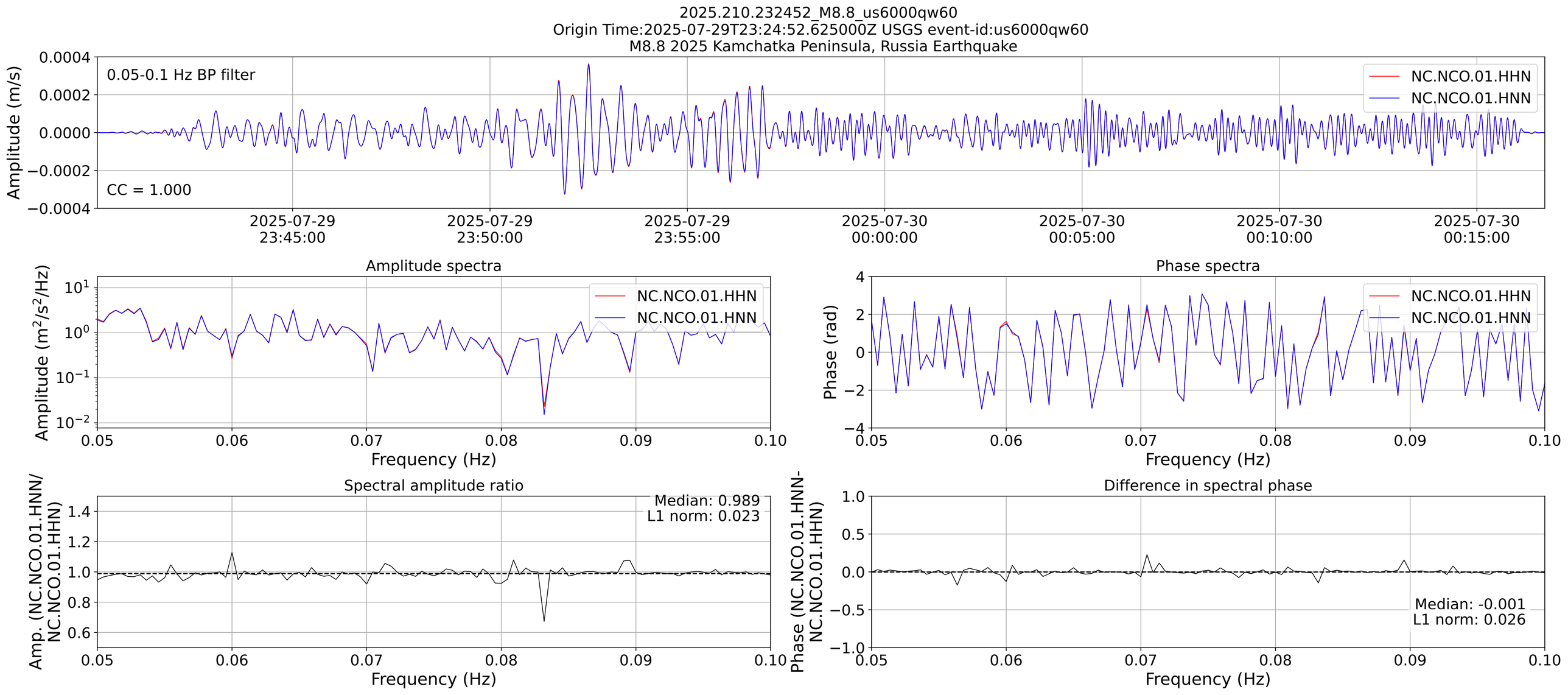

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NBPB.01.HHZ
NC.NBPB.01.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NBPB.01.HNZ/ NC.NBPB.01.HHZ)
Median: 0.958
L1 norm: 0.013
Difference in spectral phase
Phase (NC.NBPB.01.HNZ- NC.NBPB.01.HHZ)
Median: 0.003
L1 norm: 0.013

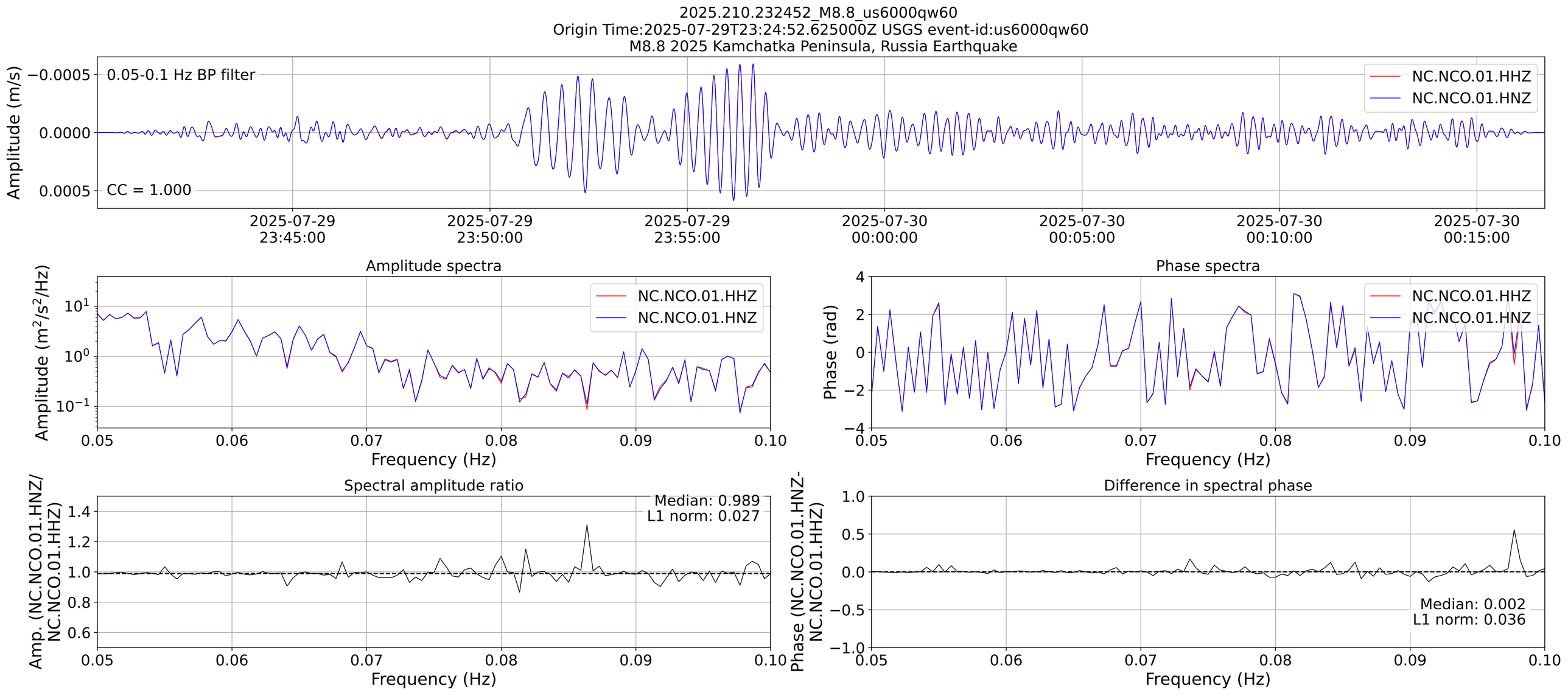

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NBW.01.HHE
NC.NBW.01.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NBW.01.HNE/ NC.NBW.01.HHE)
Median: 0.998
L1 norm: 0.035
Difference in spectral phase
Phase (NC.NBW.01.HNE- NC.NBW.01.HHE)
Median: -0.004
L1 norm: 0.034

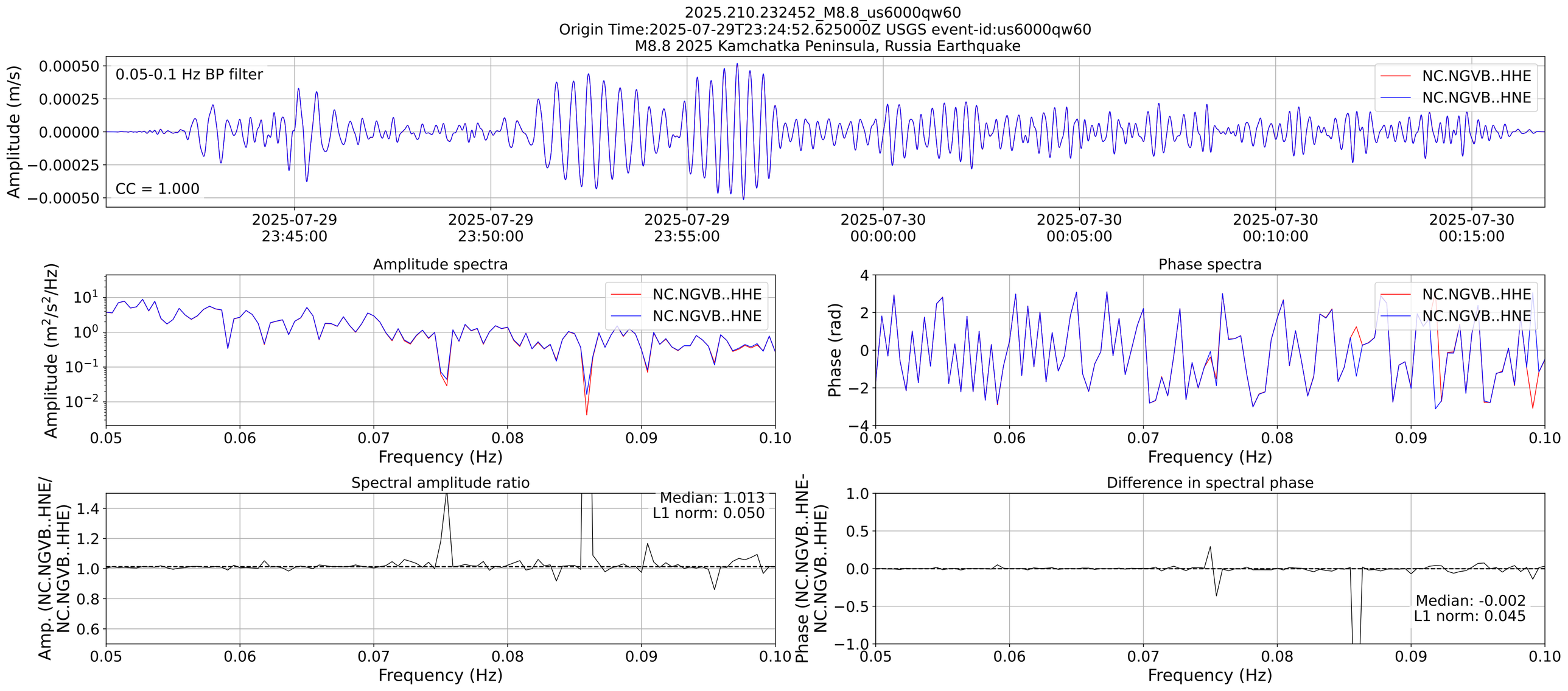

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.NBW.01.HHN
NC.NBW.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NBW.01.HNN/ NC.NBW.01.HHN)
Median: 1.003
L1 norm: 0.036
Difference in spectral phase
Phase (NC.NBW.01.HNN- NC.NBW.01.HHN)
Median: -0.005
L1 norm: 0.032

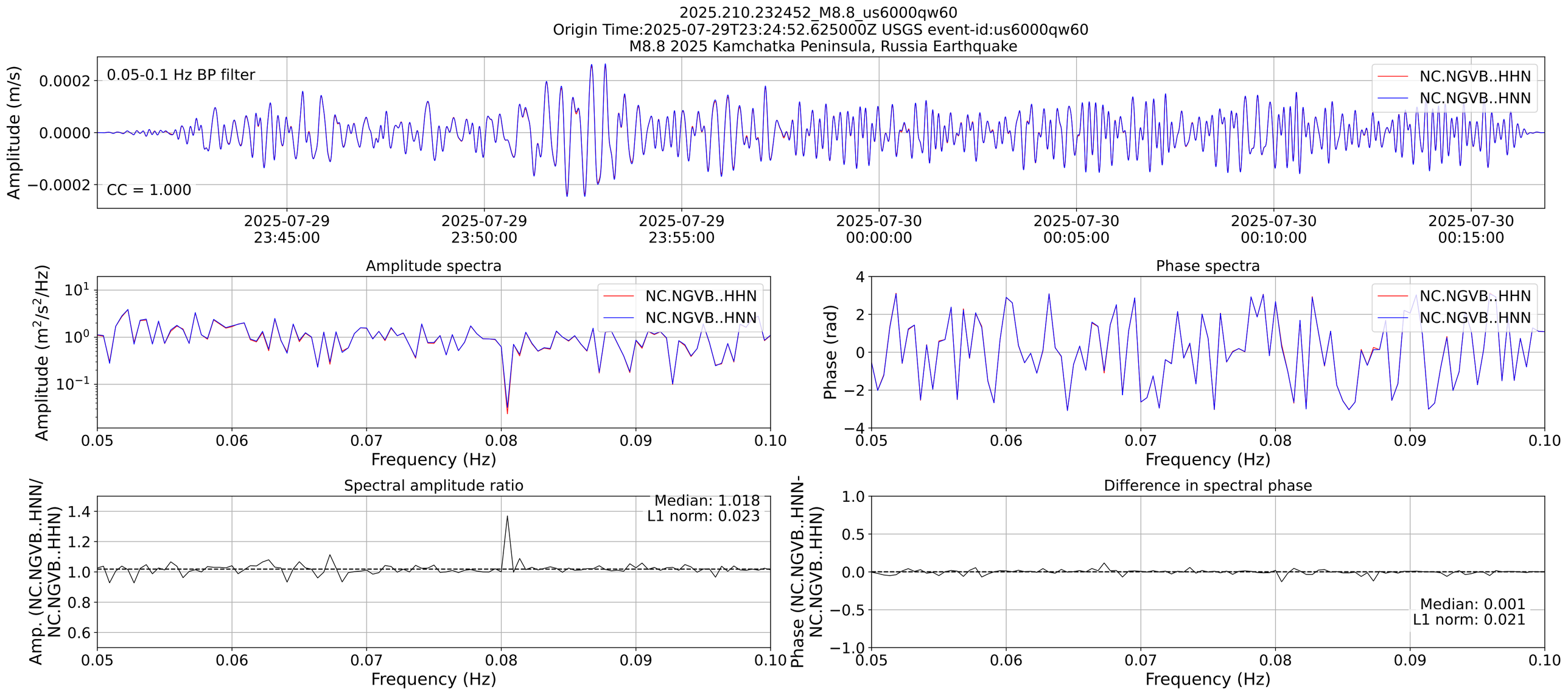

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NBW.01.HHZ
NC.NBW.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NBW.01.HNZ/ NC.NBW.01.HHZ)
Median: 0.997
L1 norm: 0.022
Difference in spectral phase
Phase (NC.NBW.01.HNZ- NC.NBW.01.HHZ)
Median: 0.007
L1 norm: 0.018

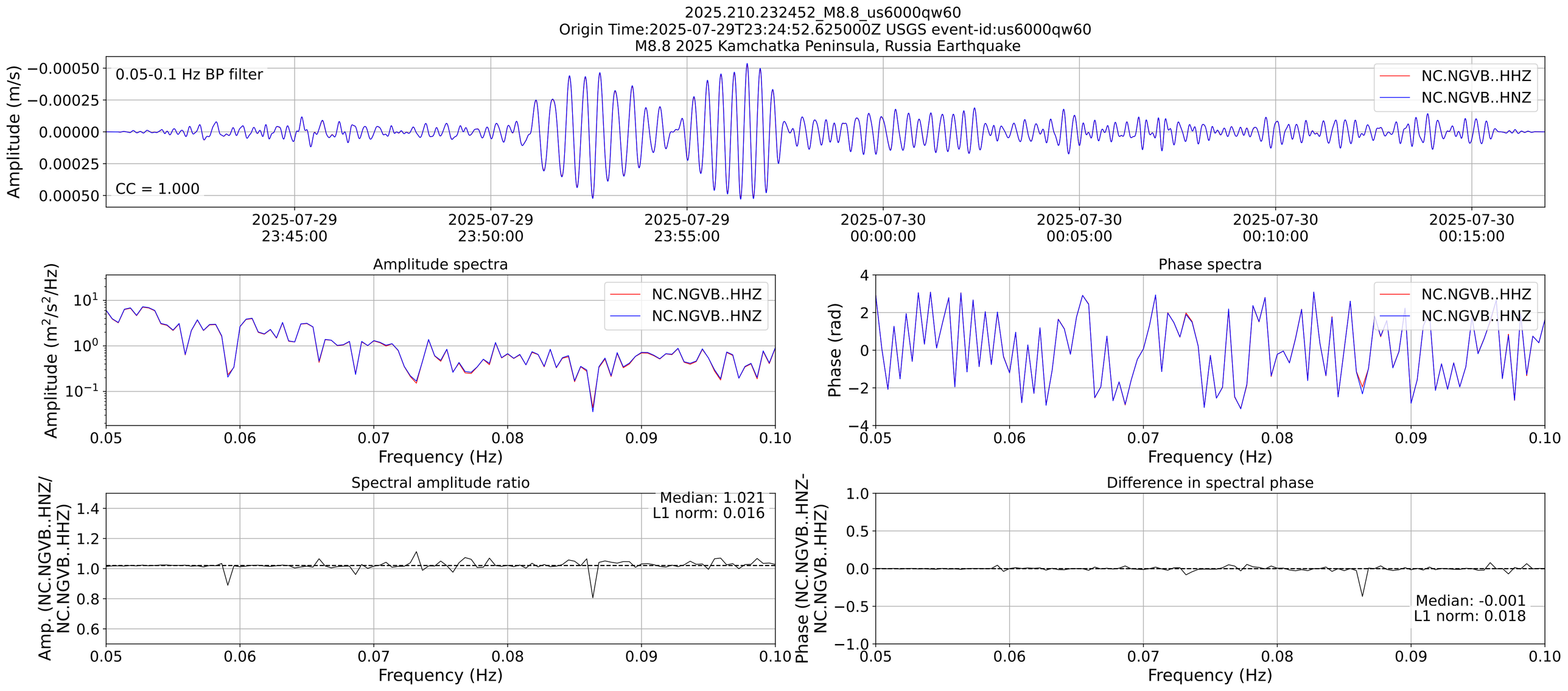

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NCO.01.HHE
NC.NCO.01.HNE
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NCO.01.HNE/ NC.NCO.01.HHE)
Median: 0.996
L1 norm: 0.018
Difference in spectral phase
Phase (NC.NCO.01.HNE- NC.NCO.01.HHE)
Median: 0.010
L1 norm: 0.022

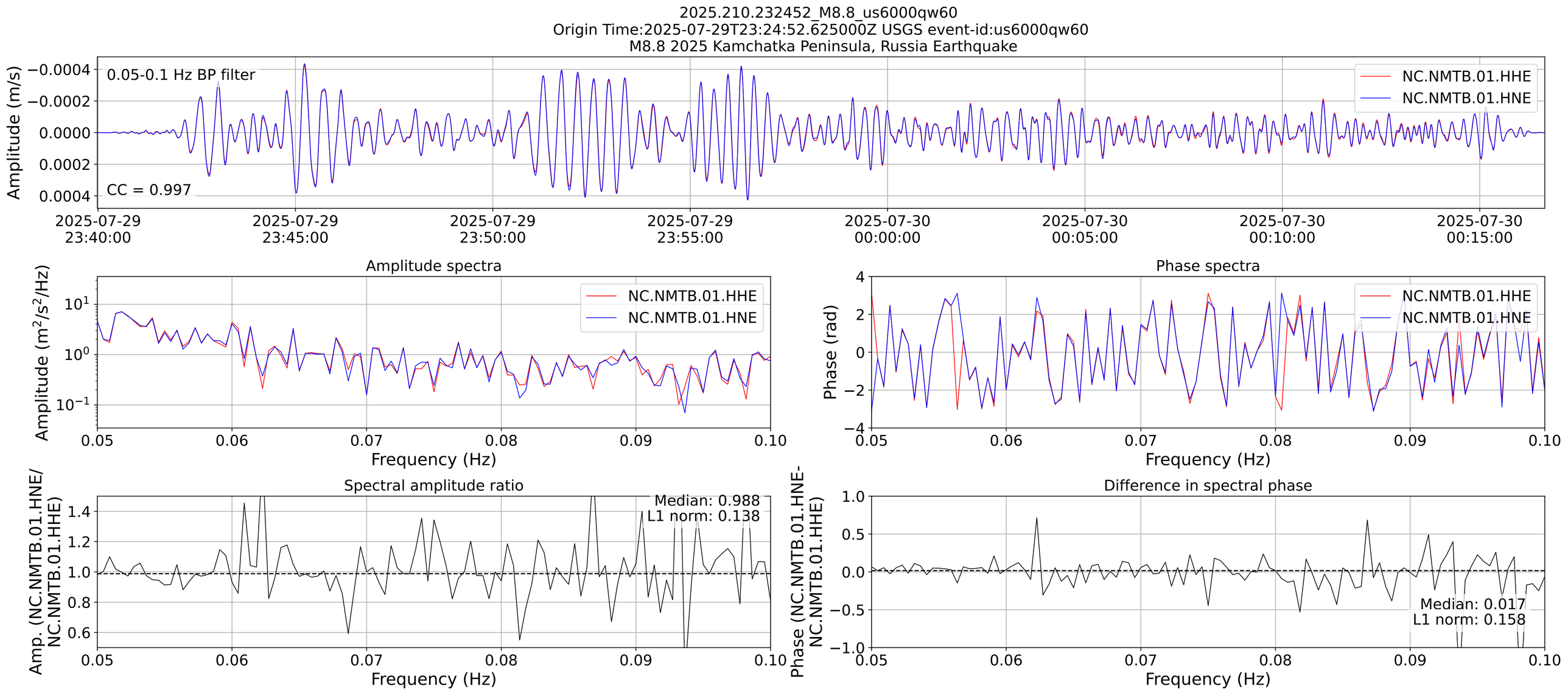

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NCO.01.HHN
NC.NCO.01.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.NCO.01.HNN/ NC.NCO.01.HHN)
Median: 0.989
L1 norm: 0.023
Difference in spectral phase
Phase (NC.NCO.01.HNN- NC.NCO.01.HHN)
Median: -0.001
L1 norm: 0.026

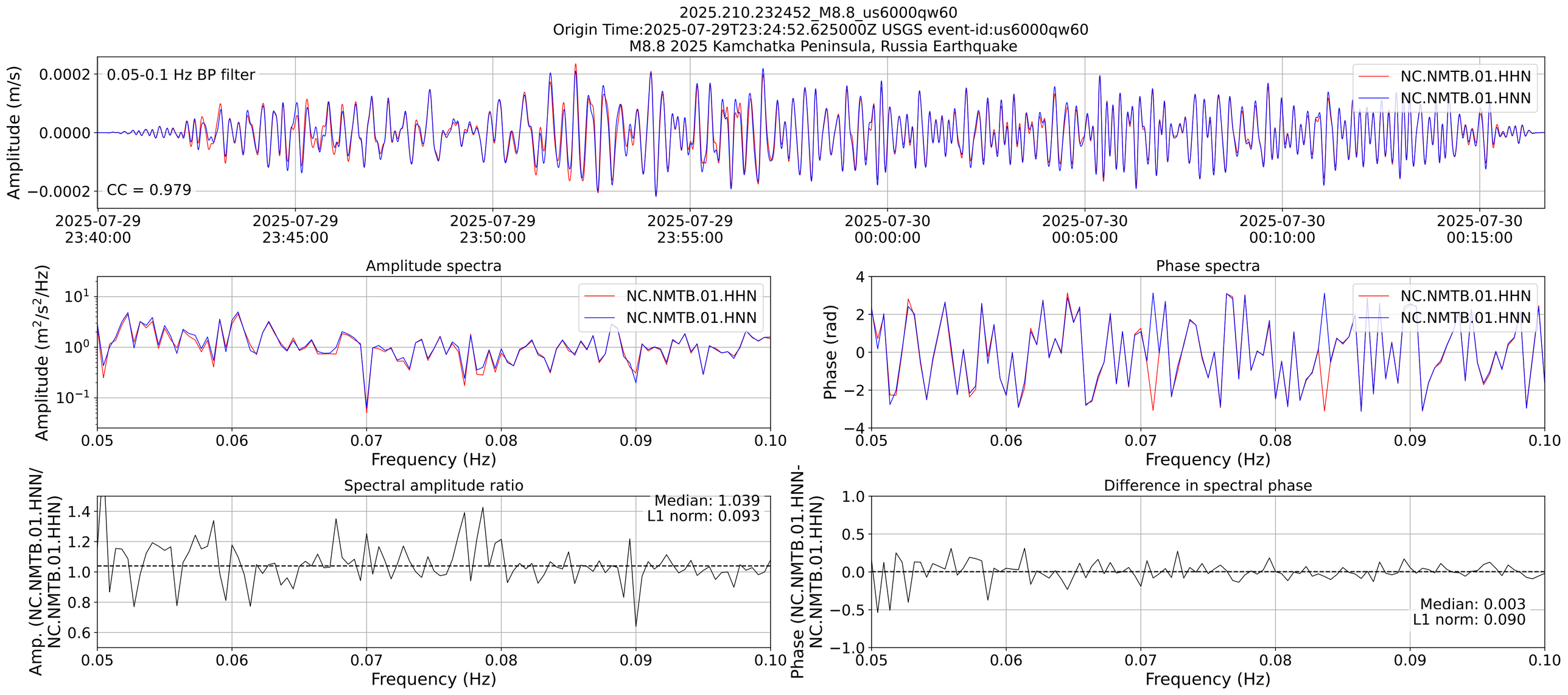

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NCO.01.HHZ
NC.NCO.01.HNZ
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NCO.01.HNZ/ NC.NCO.01.HHZ)
Median: 0.989
L1 norm: 0.027
Difference in spectral phase
Phase (NC.NCO.01.HNZ- NC.NCO.01.HHZ)
Median: 0.002
L1 norm: 0.036

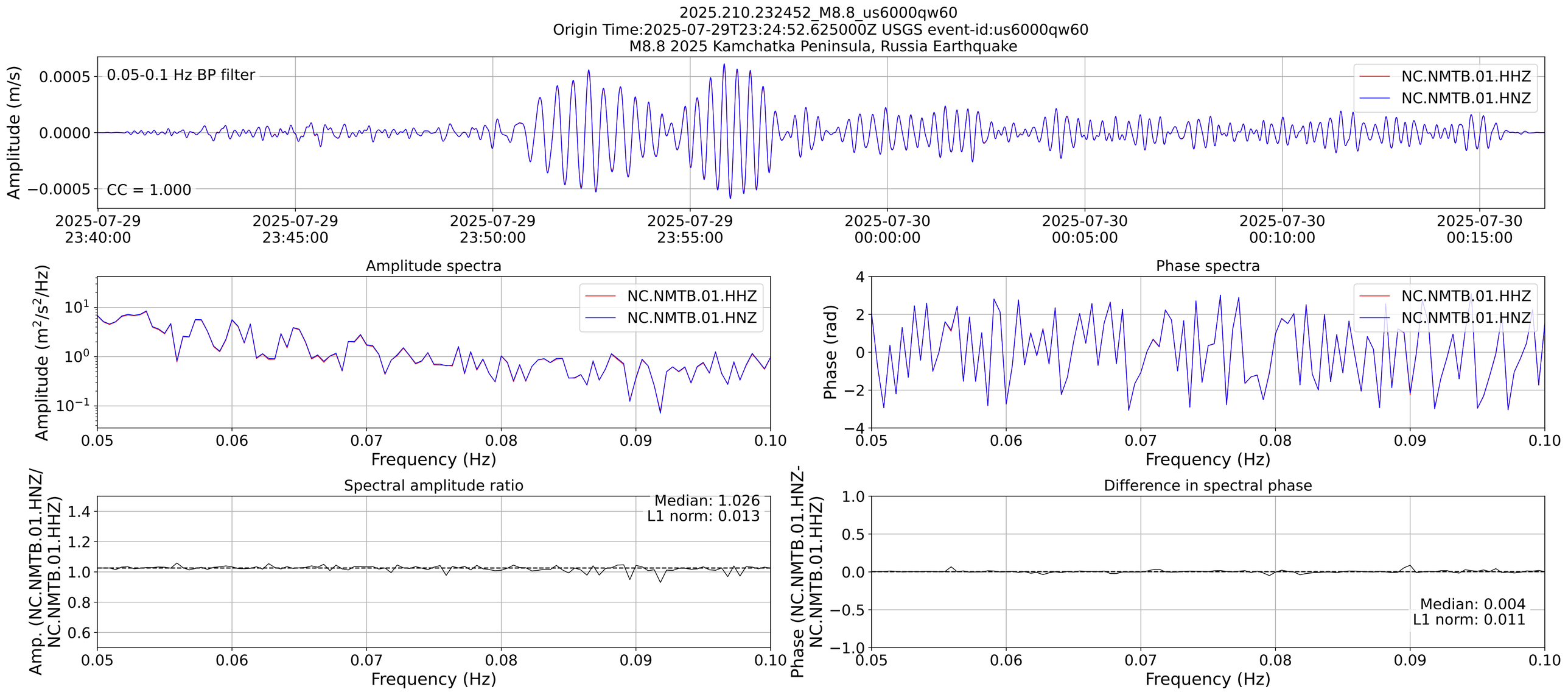

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NGVB..HHE
NC.NGVB..HNE
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NGVB..HNE/ NC.NGVB..HHE)
Median: 1.013
L1 norm: 0.050
Difference in spectral phase
Phase (NC.NGVB..HNE- NC.NGVB..HHE)
Median: -0.002
L1 norm: 0.045

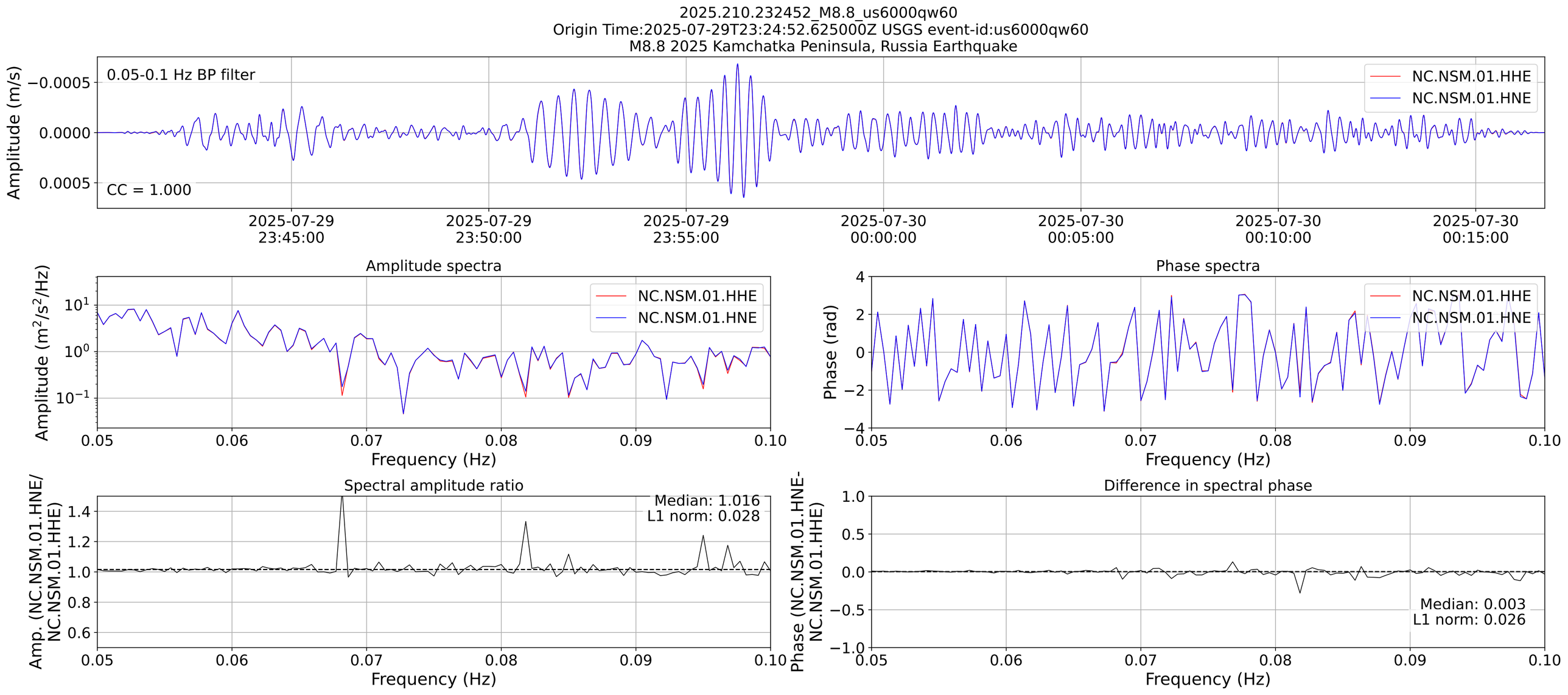

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NGVB..HHN
NC.NGVB..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NGVB..HNN/ NC.NGVB..HHN)
Median: 1.018
L1 norm: 0.023
Difference in spectral phase
Phase (NC.NGVB..HNN- NC.NGVB..HHN)
Median: 0.001
L1 norm: 0.021

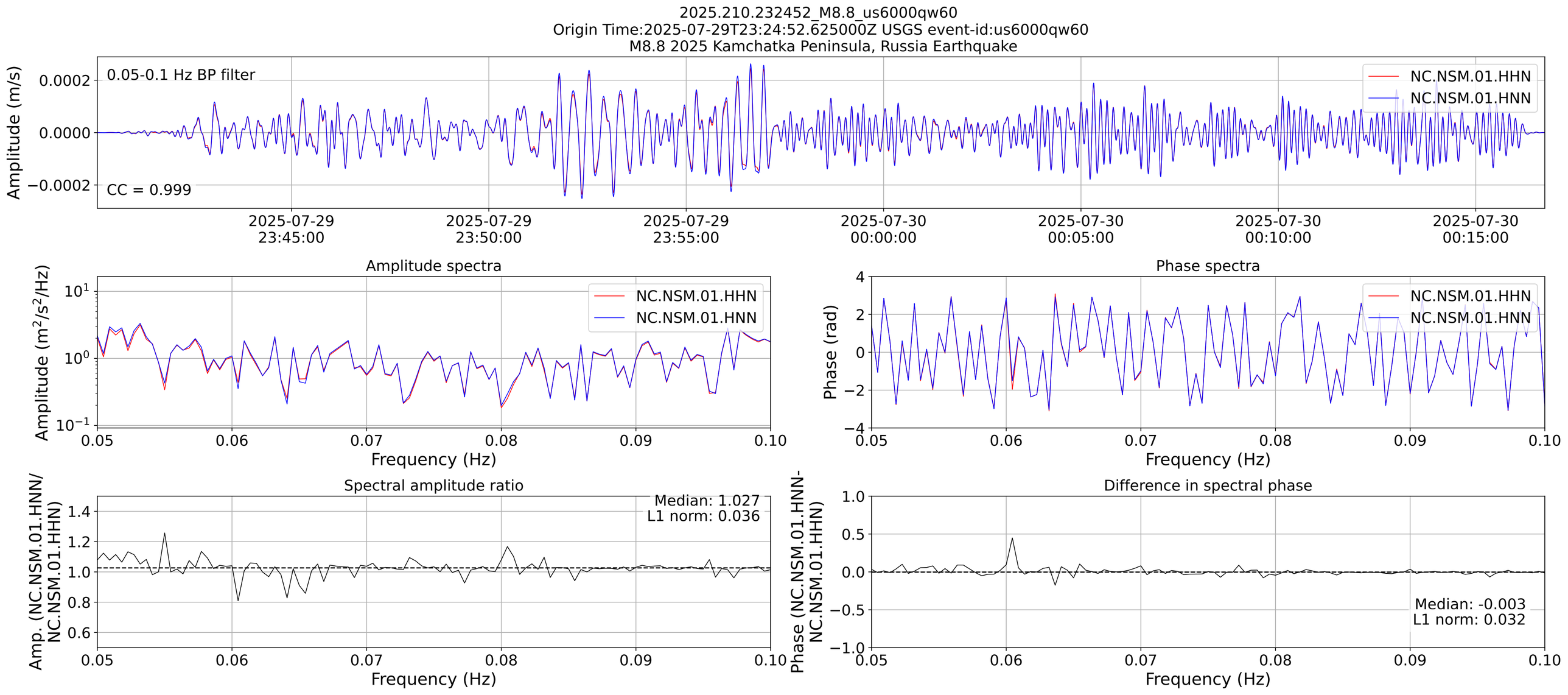

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NGVB..HHZ
NC.NGVB..HNZ
Amplitude (m/s)
−0.00050
−0.00025
0.00000
0.00025
0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NGVB..HNZ/ NC.NGVB..HHZ)
Median: 1.021
L1 norm: 0.016
Difference in spectral phase
Phase (NC.NGVB..HNZ- NC.NGVB..HHZ)
Median: -0.001
L1 norm: 0.018

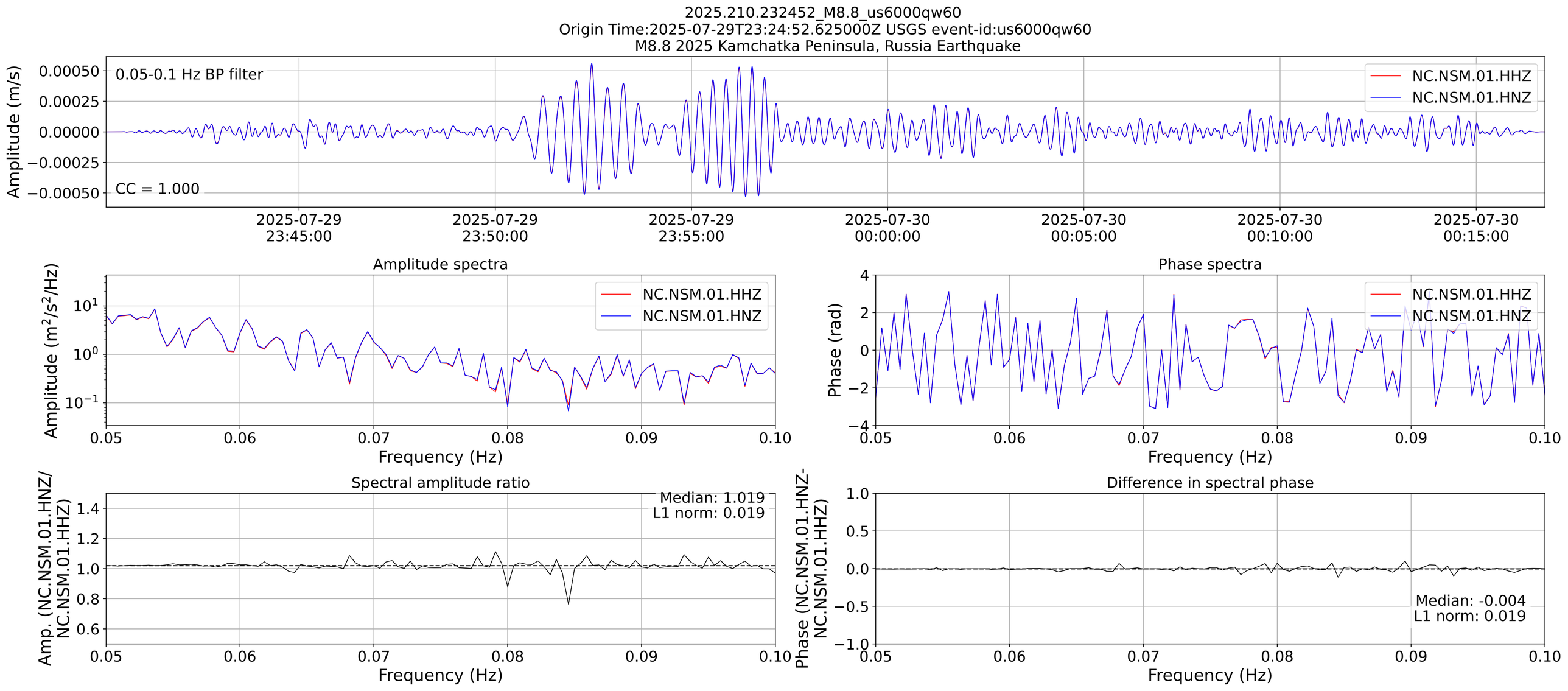

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.NMTB.01.HHE
NC.NMTB.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:40:00
2025-07-29 23:45:00
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. (NC.NMTB.01.HNE/ NC.NMTB.01.HHE)
Median: 0.988
L1 norm: 0.138
Difference in spectral phase
Phase (NC.NMTB.01.HNE- NC.NMTB.01.HHE)
Median: 0.017
L1 norm: 0.158

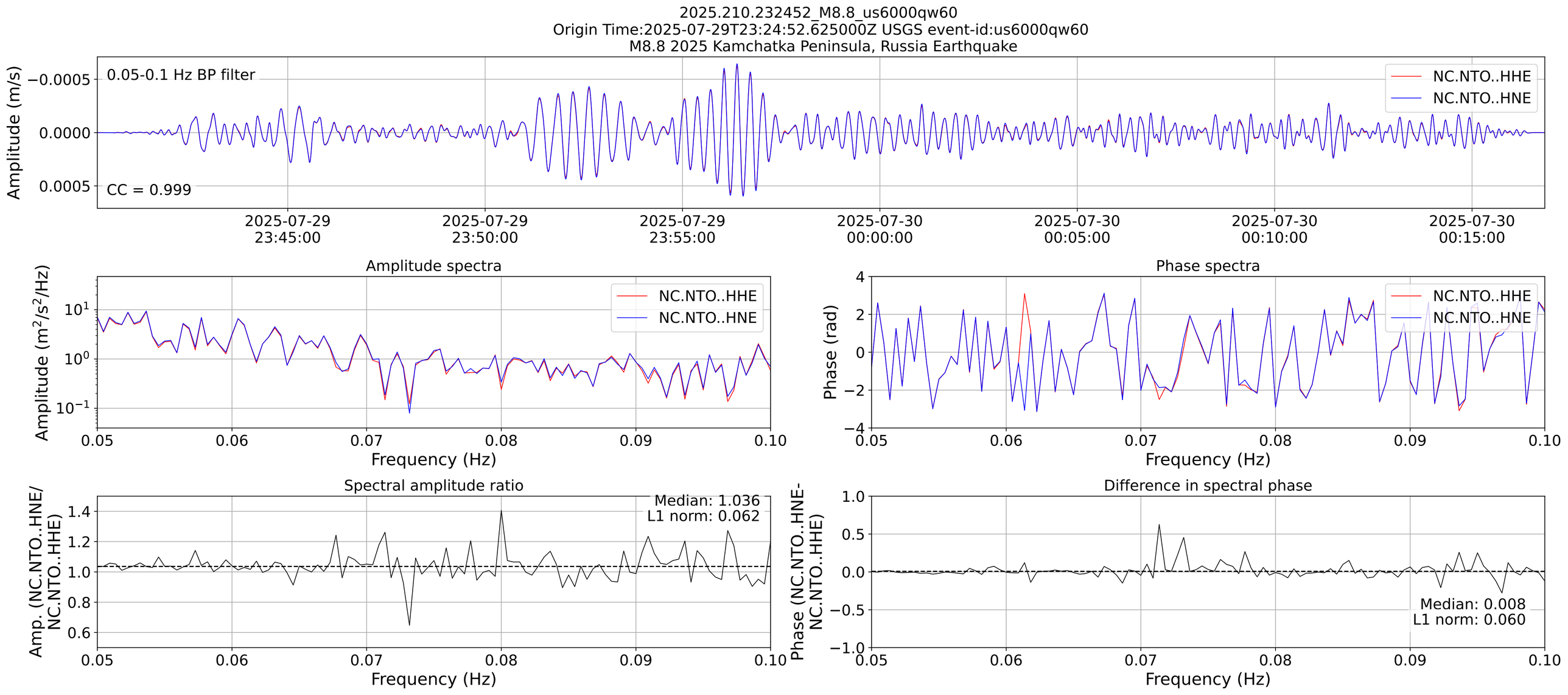

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.979
NC.NMTB.01.HHN
NC.NMTB.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NMTB.01.HNN/ NC.NMTB.01.HHN)
Median: 1.039
L1 norm: 0.093
Difference in spectral phase
Phase (NC.NMTB.01.HNN- NC.NMTB.01.HHN)
Median: 0.003
L1 norm: 0.090

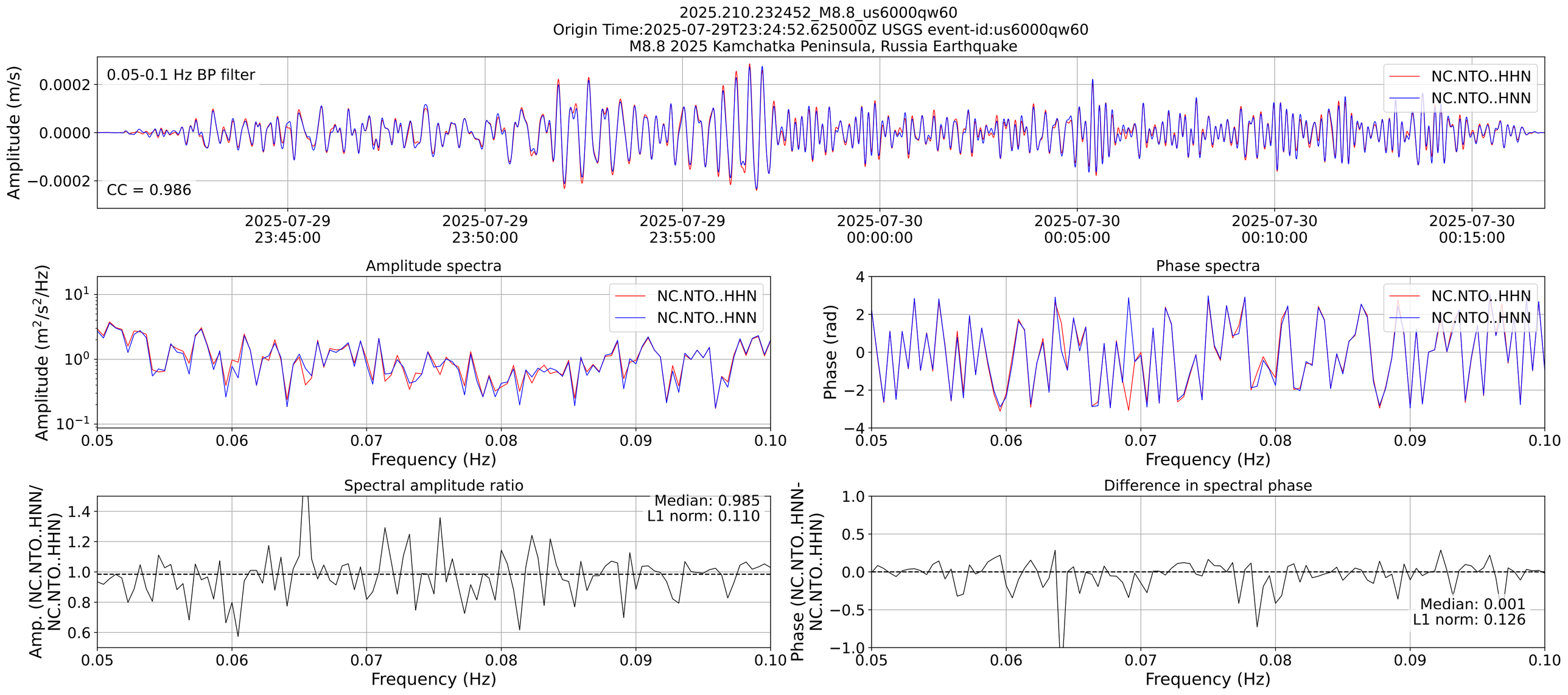

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NMTB.01.HHZ
NC.NMTB.01.HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:40:00
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NMTB.01.HNZ/ NC.NMTB.01.HHZ)
Median: 1.026
L1 norm: 0.013
Difference in spectral phase
Phase (NC.NMTB.01.HNZ- NC.NMTB.01.HHZ)
Median: 0.004
L1 norm: 0.011

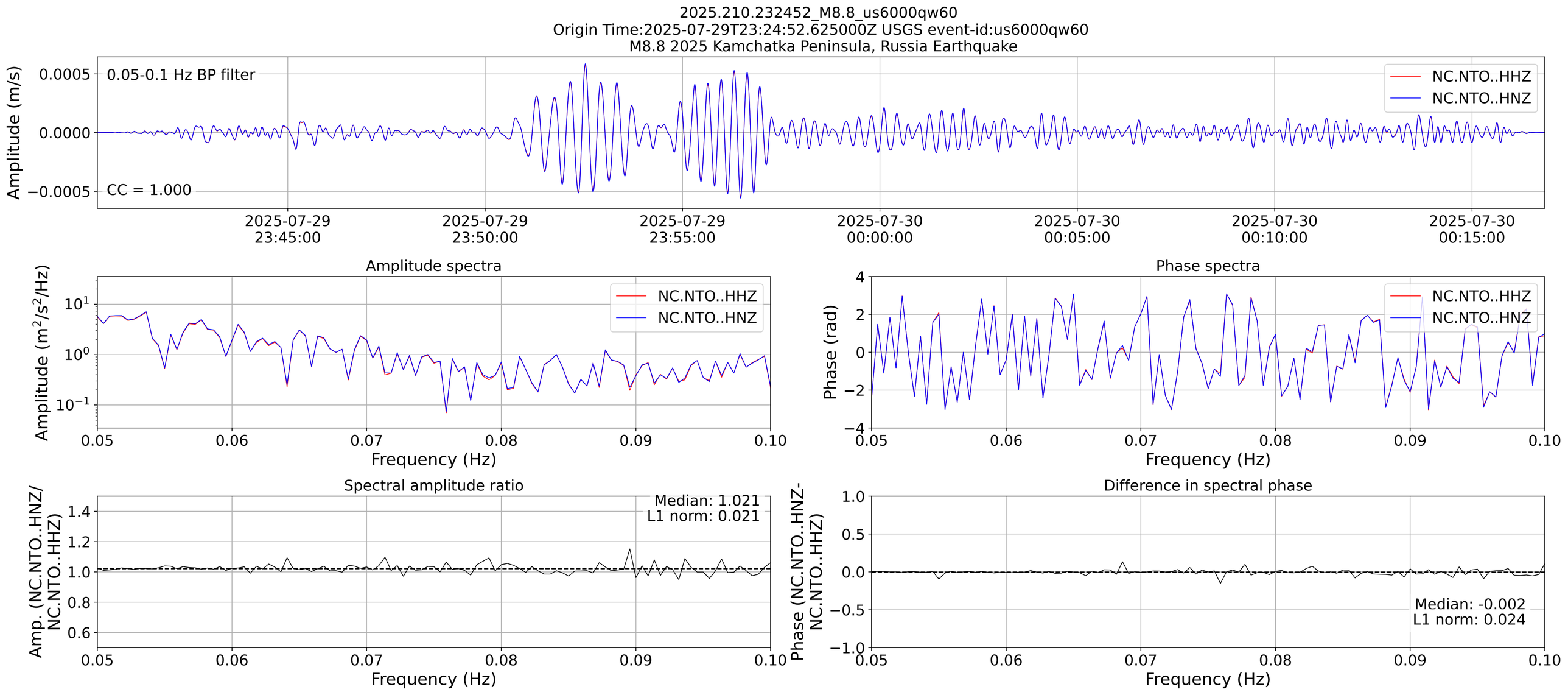

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NSM.01.HHE
NC.NSM.01.HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NSM.01.HNE/ NC.NSM.01.HHE)
Median: 1.016
L1 norm: 0.028
Difference in spectral phase
Phase (NC.NSM.01.HNE- NC.NSM.01.HHE)
Median: 0.003
L1 norm: 0.026

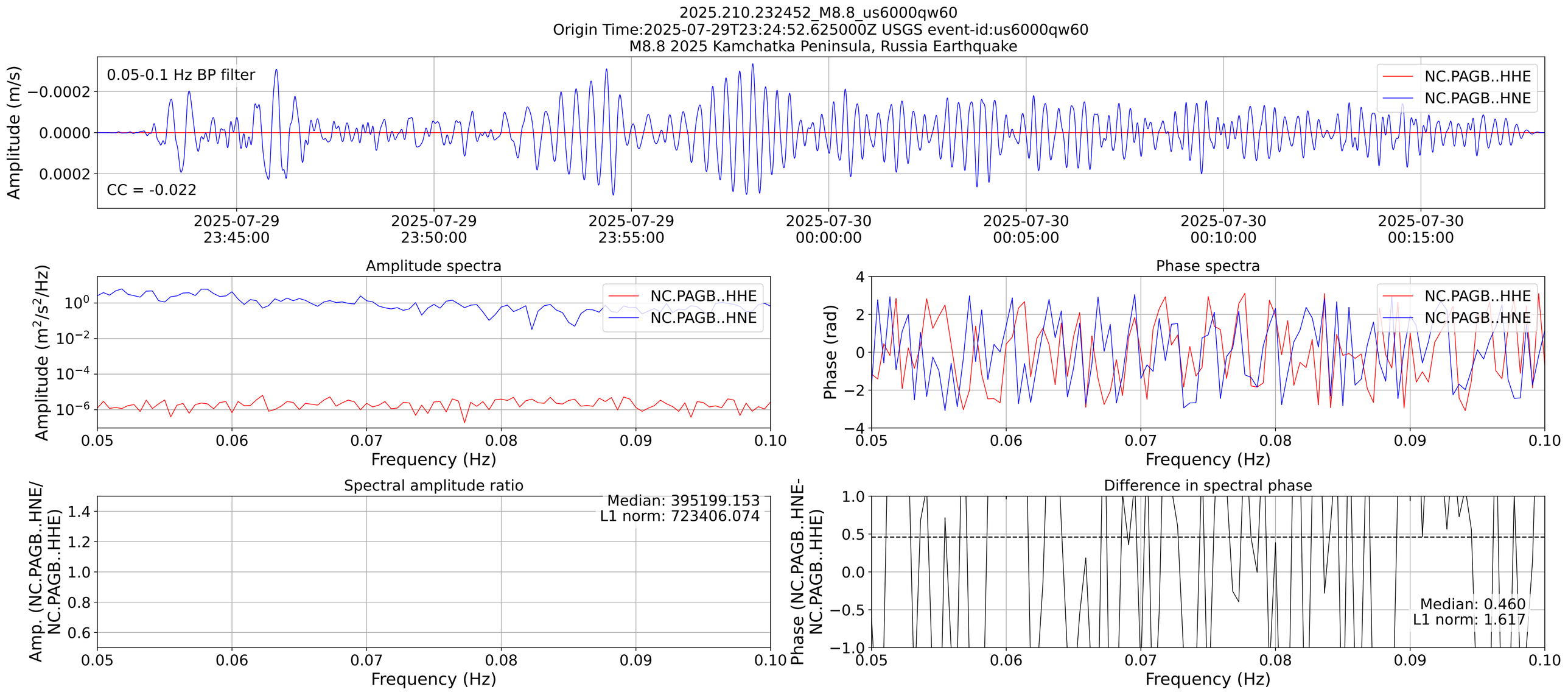

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.NSM.01.HHN
NC.NSM.01.HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NSM.01.HNN/ NC.NSM.01.HHN)
Median: 1.027
L1 norm: 0.036
Difference in spectral phase
Phase (NC.NSM.01.HNN- NC.NSM.01.HHN)
Median: -0.003
L1 norm: 0.032

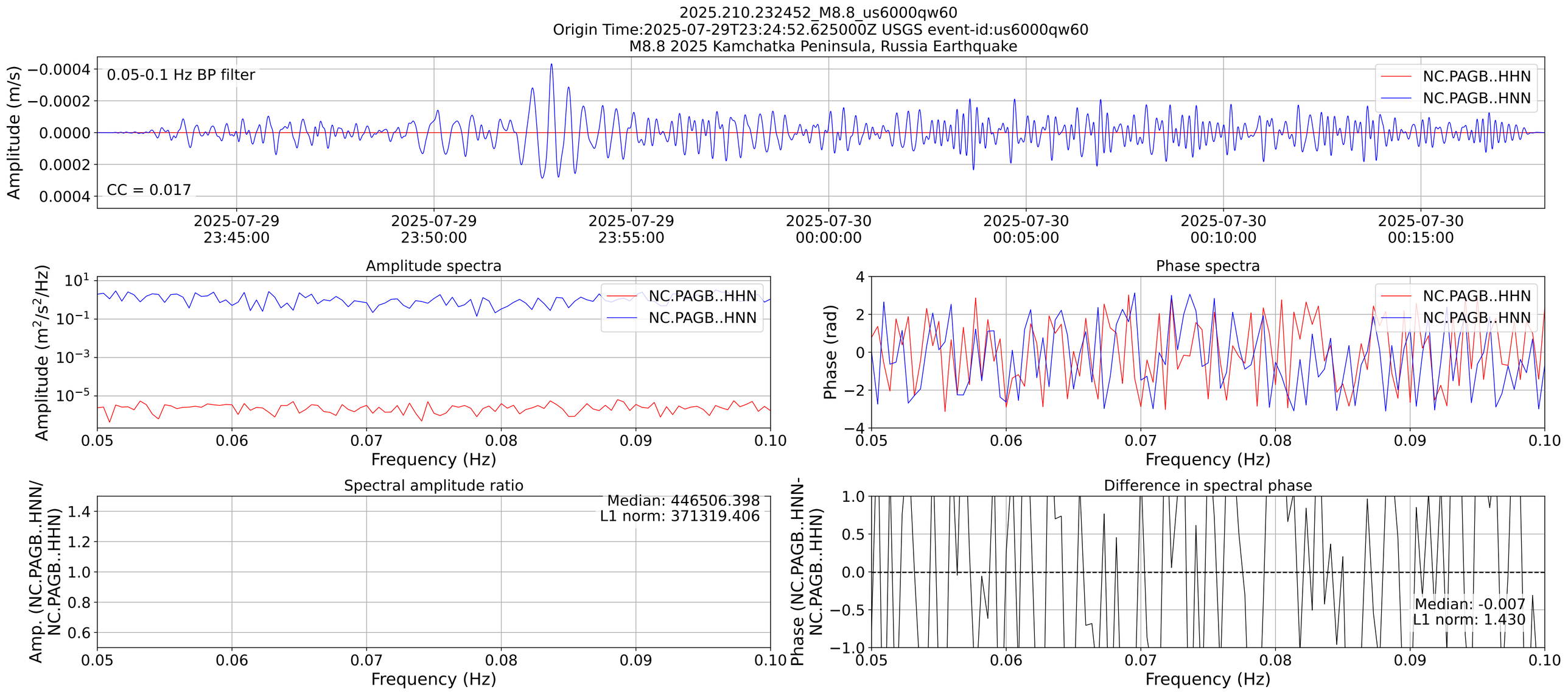

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NSM.01.HHZ
NC.NSM.01.HNZ
Amplitude (m/s)
0.00050
0.00025
0.00000
−0.00025
−0.00050
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.NSM.01.HNZ/ NC.NSM.01.HHZ)
Median: 1.019
L1 norm: 0.019
Difference in spectral phase
Phase (NC.NSM.01.HNZ- NC.NSM.01.HHZ)
Median: -0.004
L1 norm: 0.019

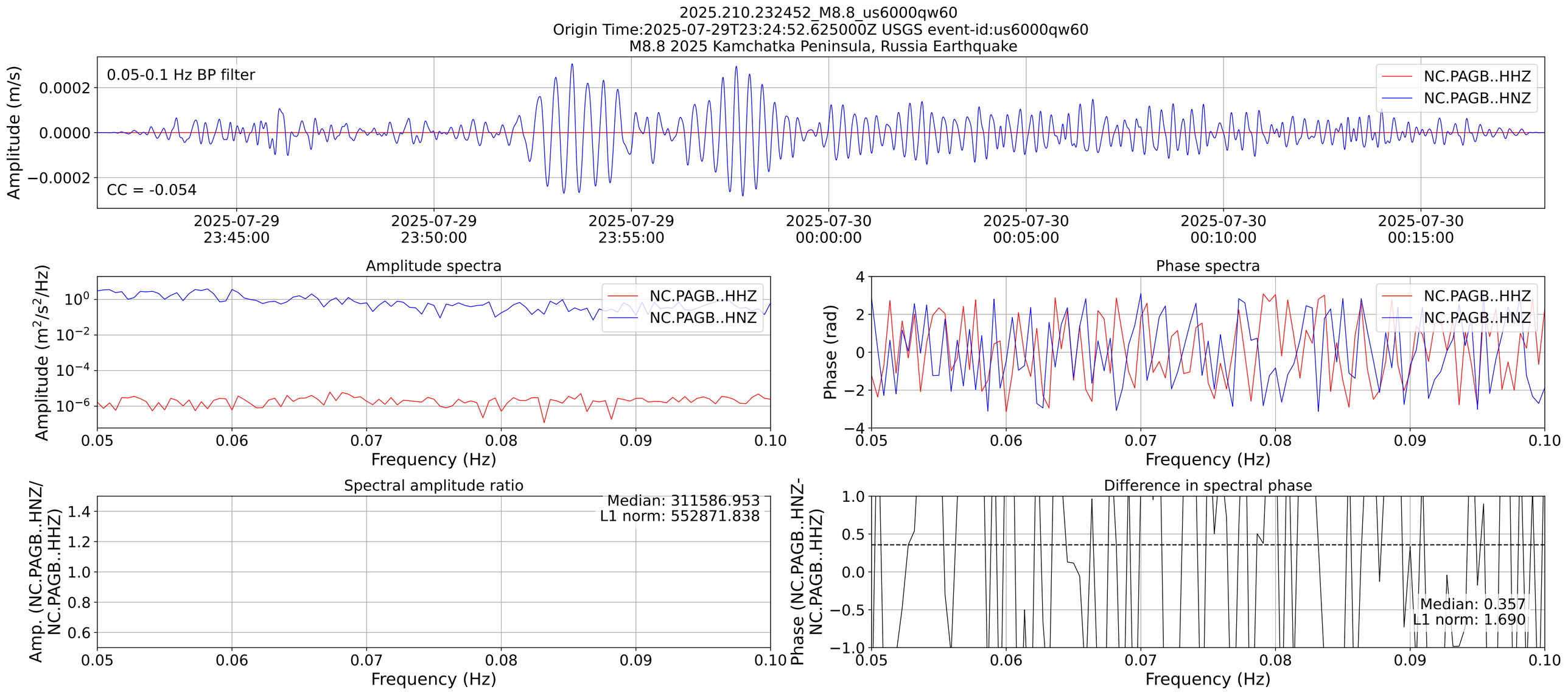

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.NTO..HHE
NC.NTO..HNE
Amplitude (m/s)
−0.0005
0.0000
0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NTO..HNE/ NC.NTO..HHE)
Median: 1.036
L1 norm: 0.062
Difference in spectral phase
Phase (NC.NTO..HNE- NC.NTO..HHE)
Median: 0.008
L1 norm: 0.060

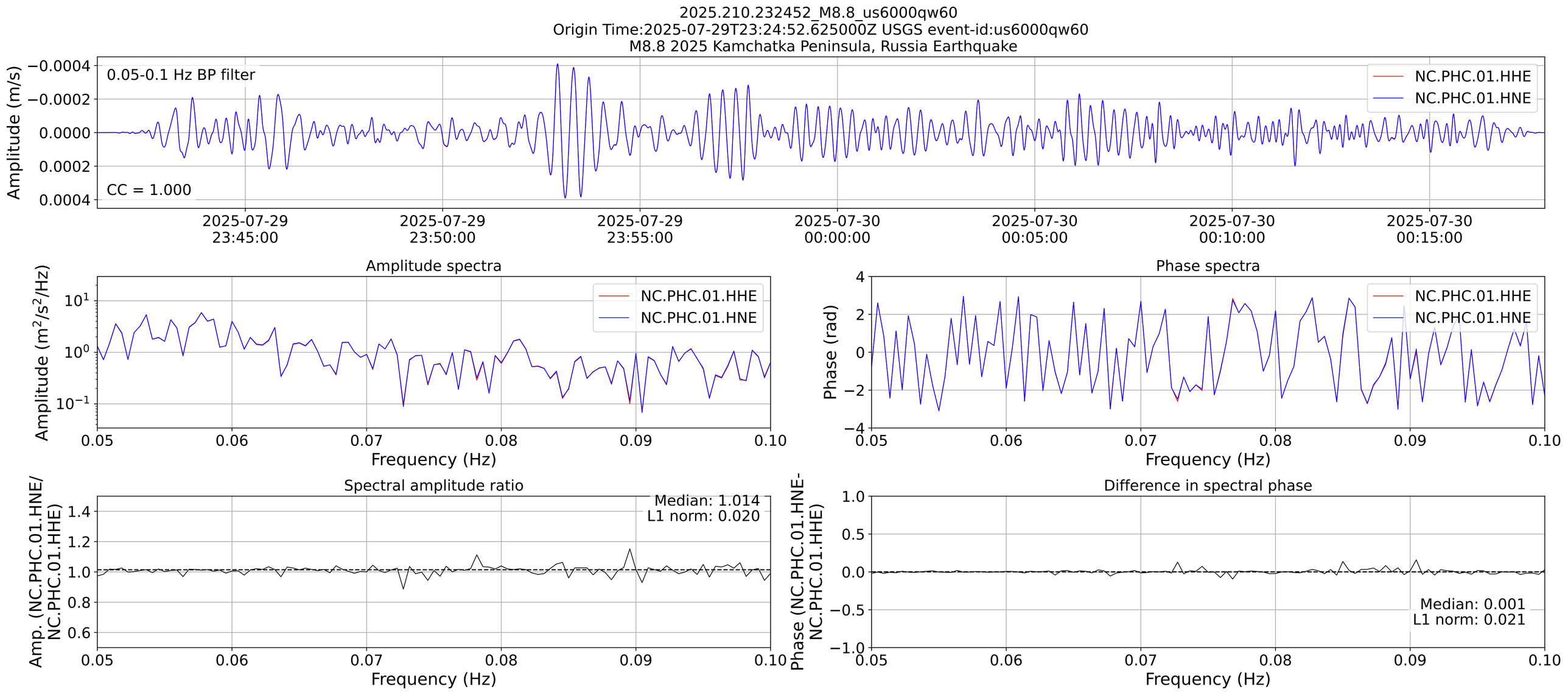

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.986
NC.NTO..HHN
NC.NTO..HNN
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NTO..HNN/ NC.NTO..HHN)
Median: 0.985
L1 norm: 0.110
Difference in spectral phase
Phase (NC.NTO..HNN- NC.NTO..HHN)
Median: 0.001
L1 norm: 0.126

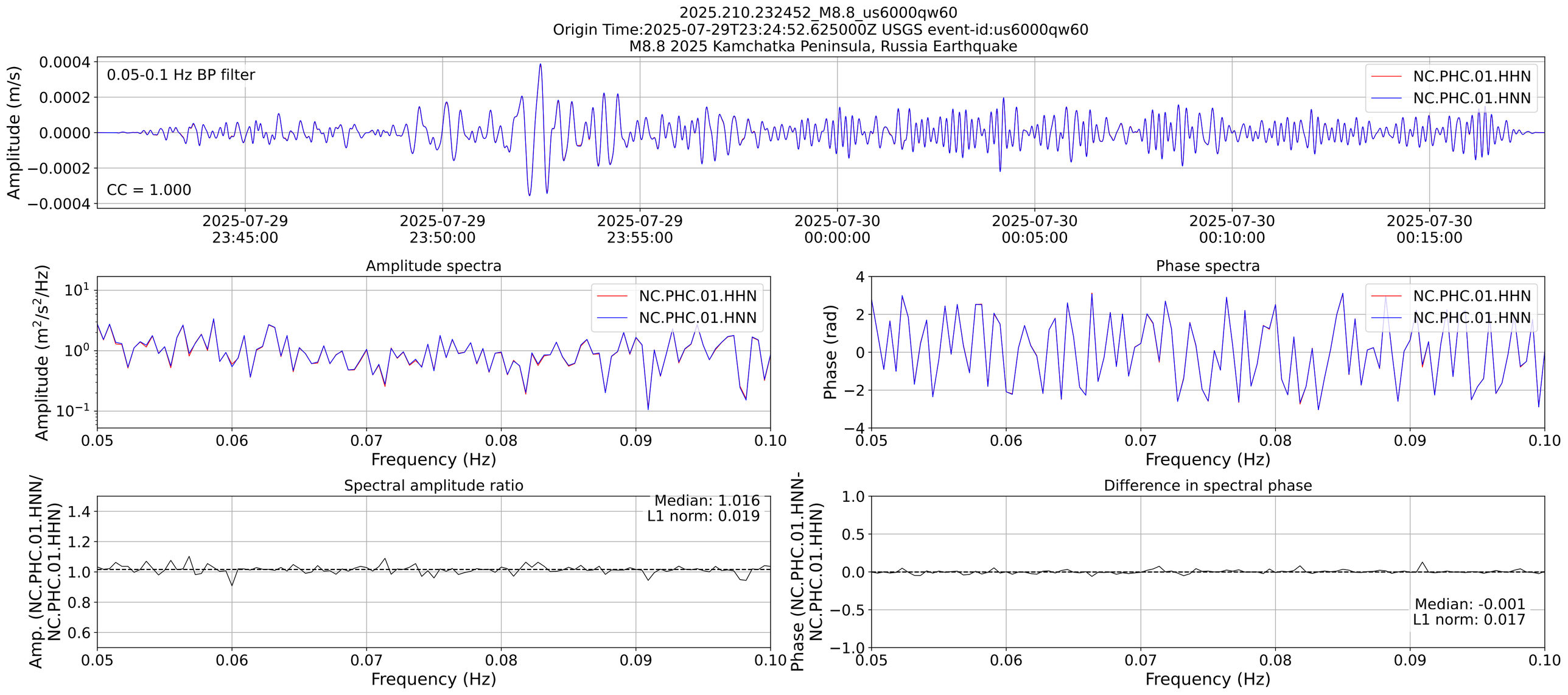

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.NTO..HHZ
NC.NTO..HNZ
Amplitude (m/s)
0.0005
0.0000
−0.0005
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.NTO..HNZ/ NC.NTO..HHZ)
Median: 1.021
L1 norm: 0.021
Difference in spectral phase
Phase (NC.NTO..HNZ- NC.NTO..HHZ)
Median: -0.002
L1 norm: 0.024

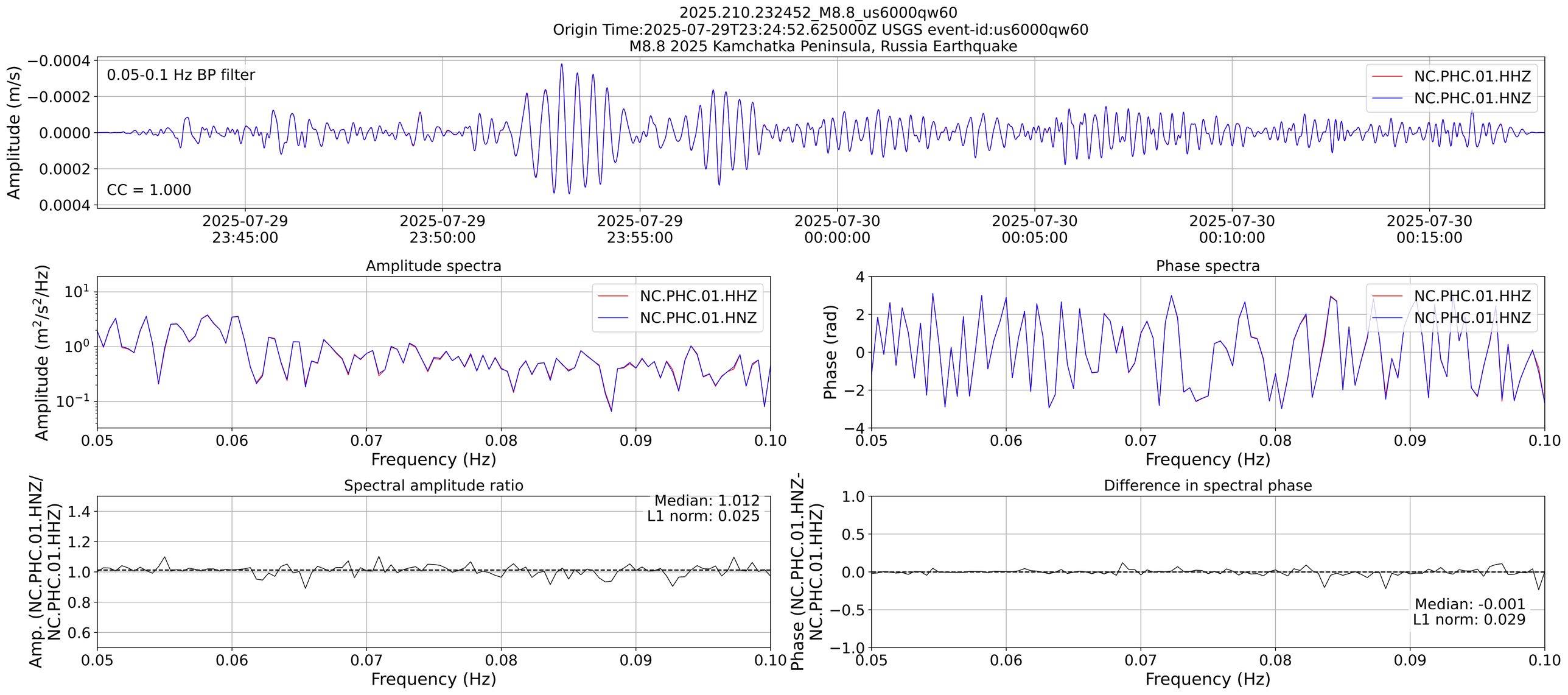

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.022
NC.PAGB..HHE
NC.PAGB..HNE
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.PAGB..HNE/ NC.PAGB..HHE)
Median: 395199.153
L1 norm: 723406.074
Difference in spectral phase
Phase (NC.PAGB..HNE- NC.PAGB..HHE)
Median: 0.460
L1 norm: 1.617

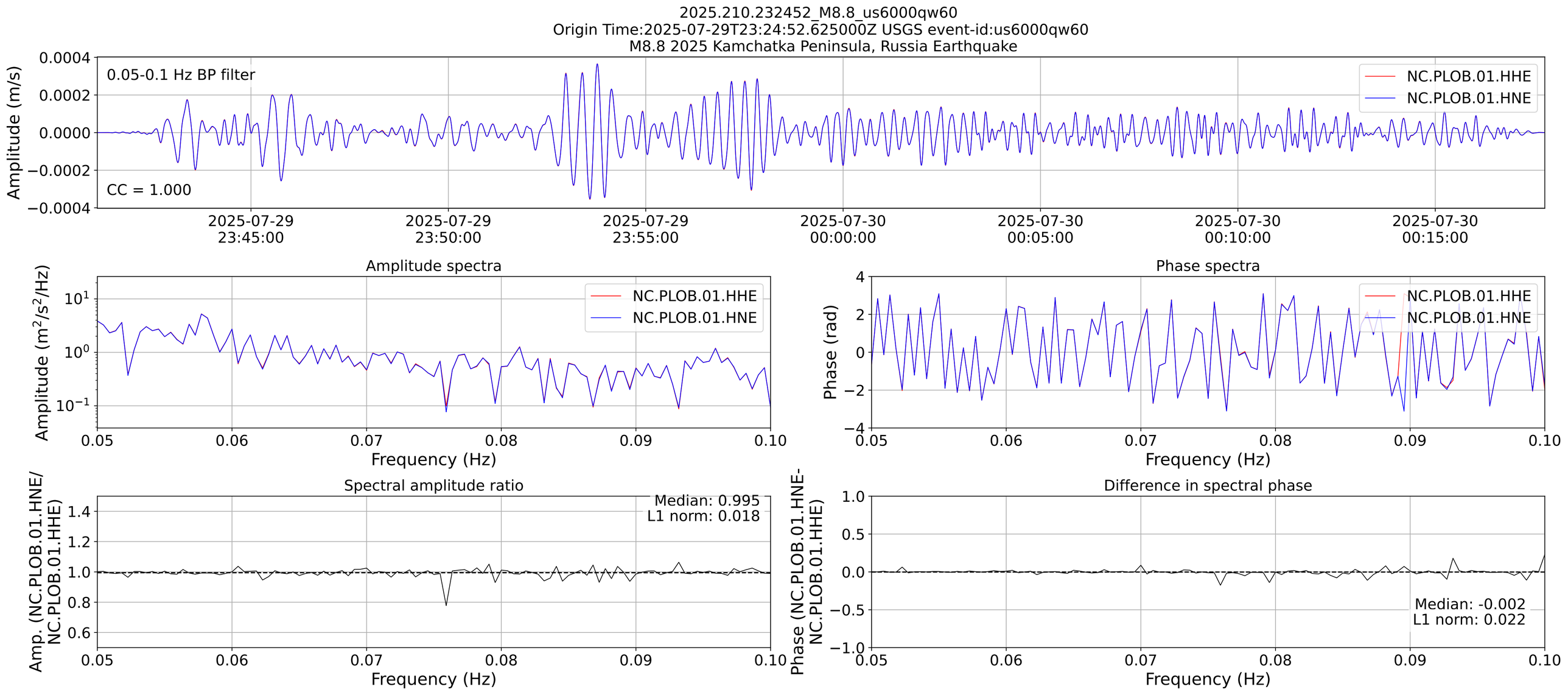

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.017
NC.PAGB..HHN
NC.PAGB..HNN
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PAGB..HNN/ NC.PAGB..HHN)
Median: 446506.398
L1 norm: 371319.406
Difference in spectral phase
Phase (NC.PAGB..HNN- NC.PAGB..HHN)
Median: -0.007
L1 norm: 1.430

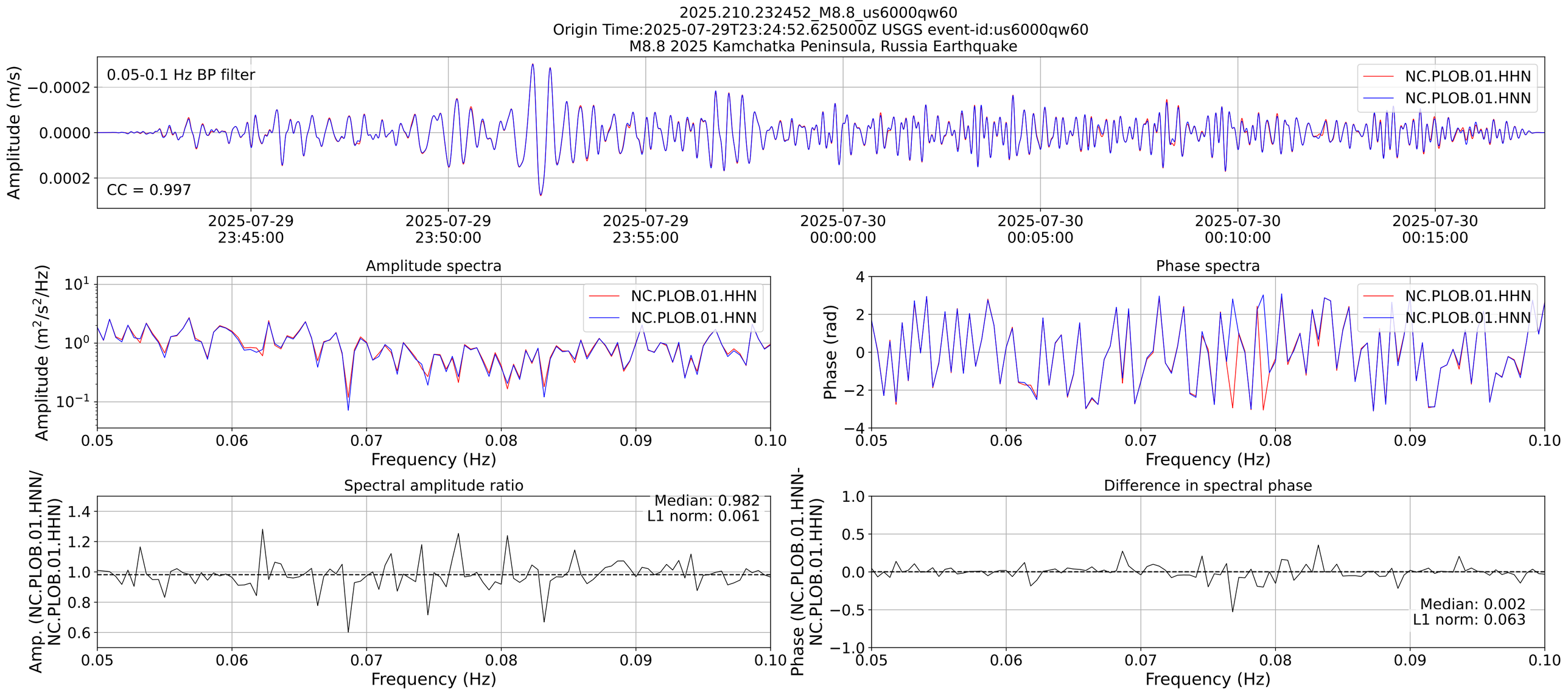

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -0.054
NC.PAGB..HHZ
NC.PAGB..HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.PAGB..HNZ/ NC.PAGB..HHZ)
Median: 311586.953
L1 norm: 552871.838
Difference in spectral phase
Phase (NC.PAGB..HNZ- NC.PAGB..HHZ)
Median: 0.357
L1 norm: 1.690

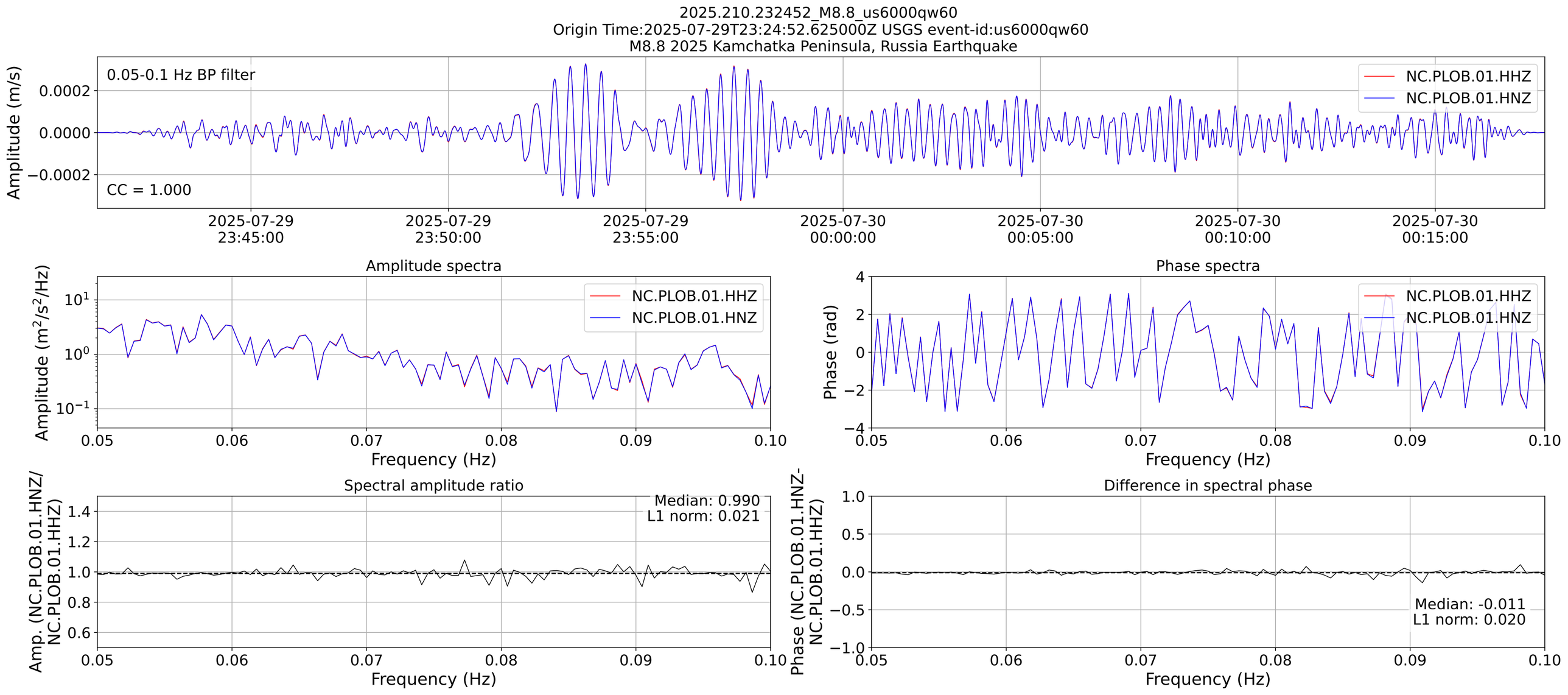

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PHC.01.HHE
NC.PHC.01.HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PHC.01.HNE/ NC.PHC.01.HHE)
Median: 1.014
L1 norm: 0.020
Difference in spectral phase
Phase (NC.PHC.01.HNE- NC.PHC.01.HHE)
Median: 0.001
L1 norm: 0.021

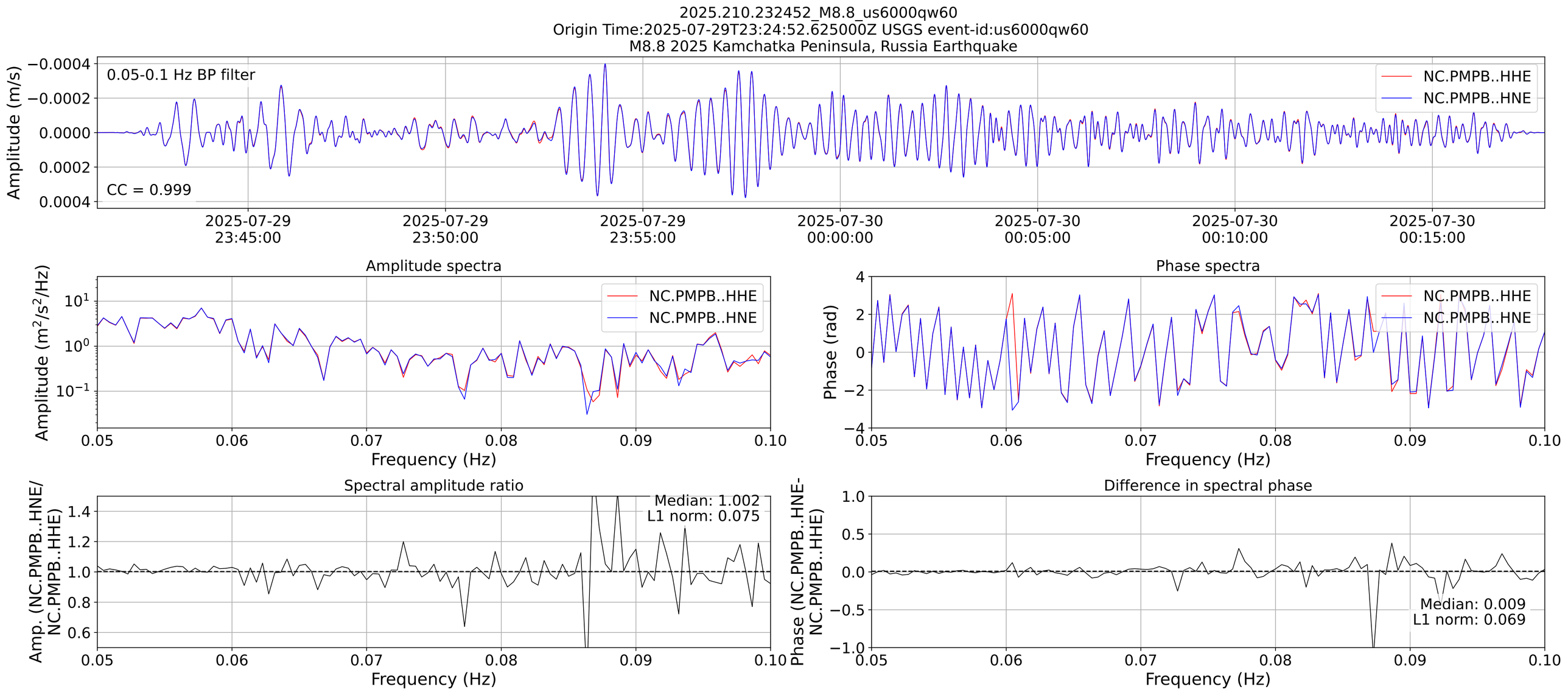

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PHC.01.HHN
NC.PHC.01.HNN
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PHC.01.HNN/ NC.PHC.01.HHN)
Median: 1.016
L1 norm: 0.019
Difference in spectral phase
Phase (NC.PHC.01.HNN- NC.PHC.01.HHN)
Median: -0.001
L1 norm: 0.017

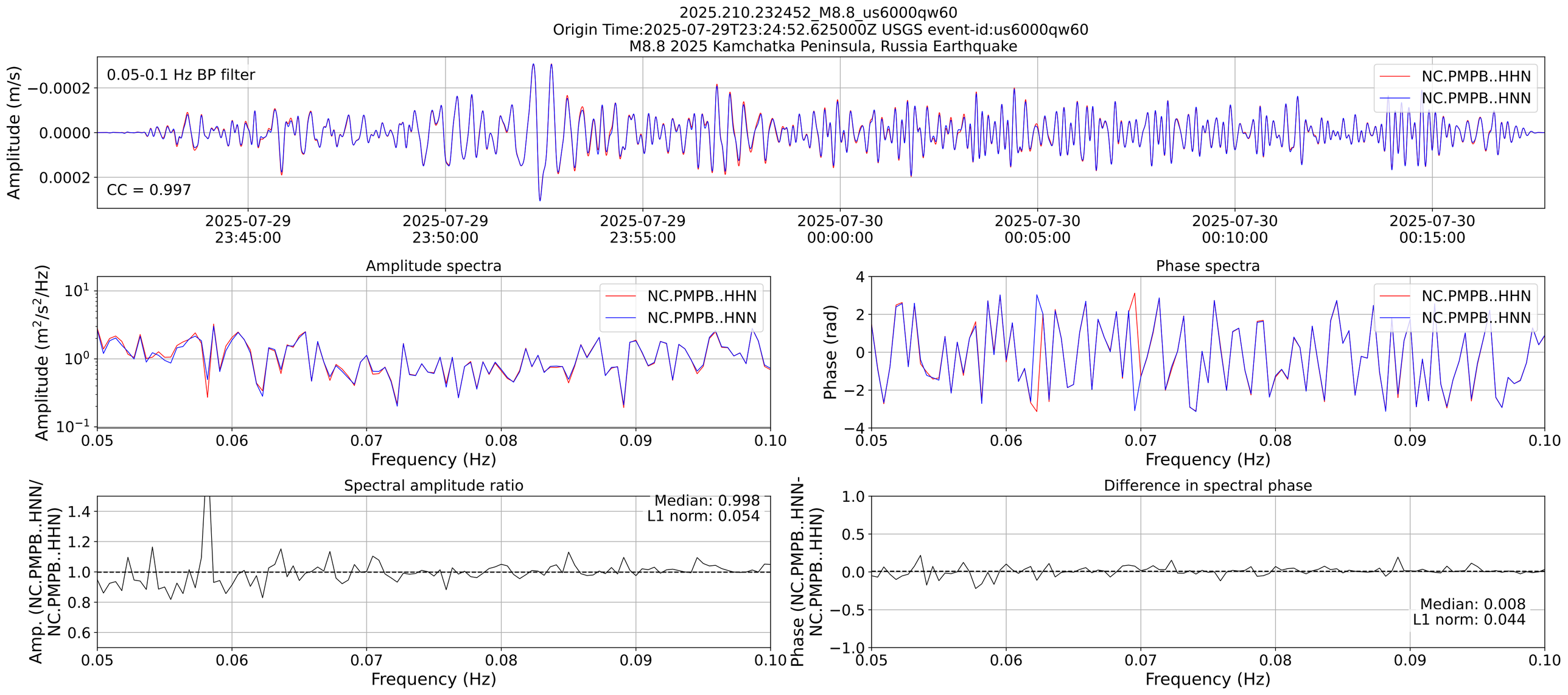

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PHC.01.HHZ
NC.PHC.01.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PHC.01.HNZ/ NC.PHC.01.HHZ)
Median: 1.012
L1 norm: 0.025
Difference in spectral phase
Phase (NC.PHC.01.HNZ-NC.PHC.01.HHZ)
Median: -0.001
L1 norm: 0.029

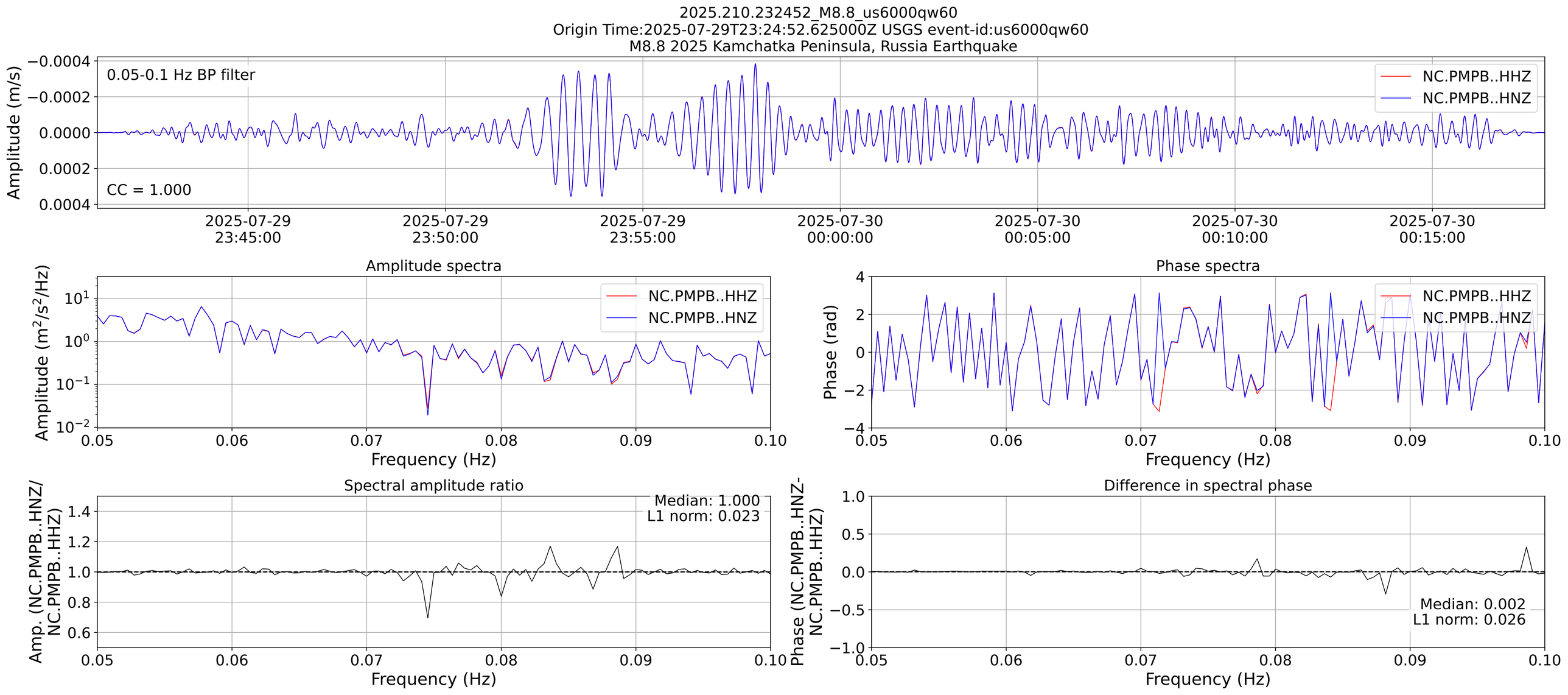

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PLOB.01.HHE
NC.PLOB.01.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
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. (NC.PLOB.01.HNE/ NC.PLOB.01.HHE)
Median: 0.995
L1 norm: 0.018
Difference in spectral phase
Phase (NC.PLOB.01.HNE- NC.PLOB.01.HHE)
Median: -0.002
L1 norm: 0.022

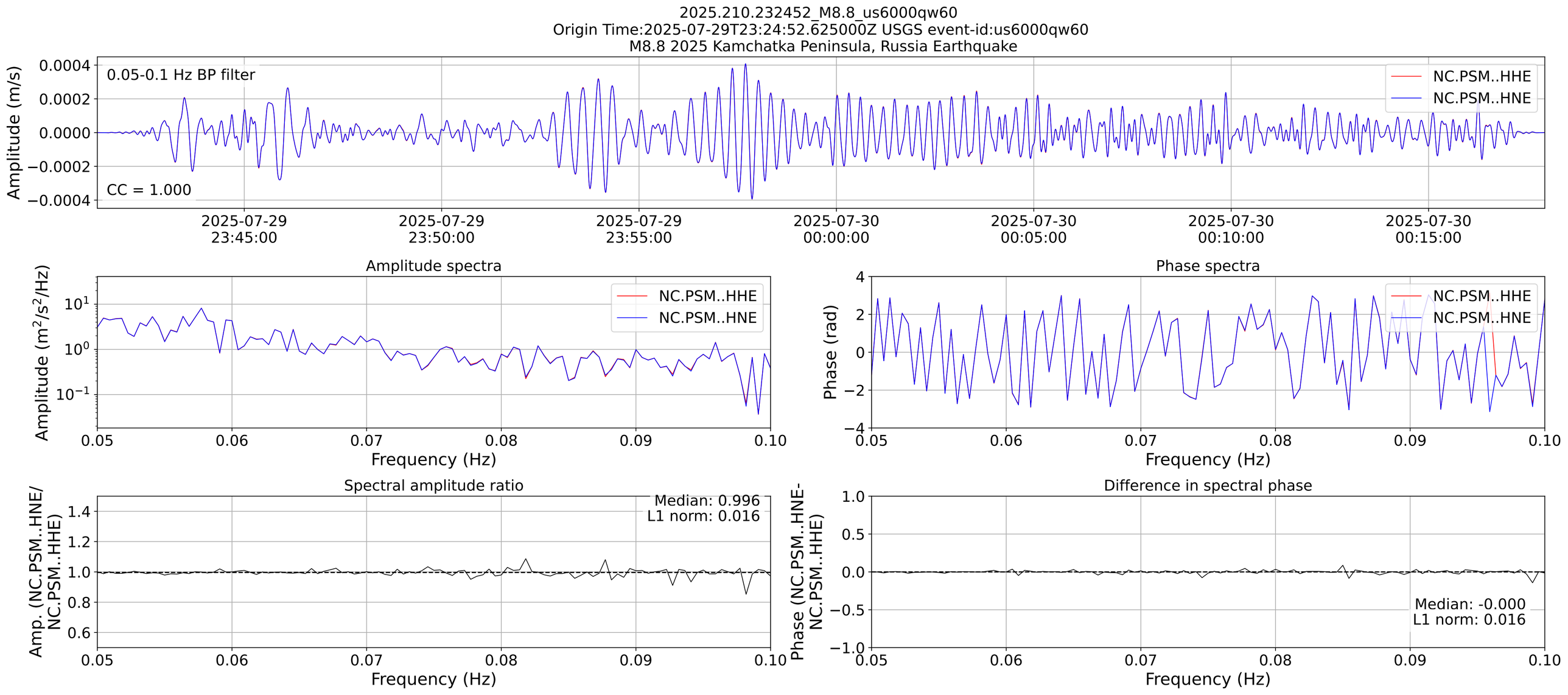

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.PLOB.01.HHN
NC.PLOB.01.HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.PLOB.01.HNN/ NC.PLOB.01.HHN)
Median: 0.982
L1 norm: 0.061
Difference in spectral phase
Phase (NC.PLOB.01.HNN- NC.PLOB.01.HHN)
Median: 0.002
L1 norm: 0.063

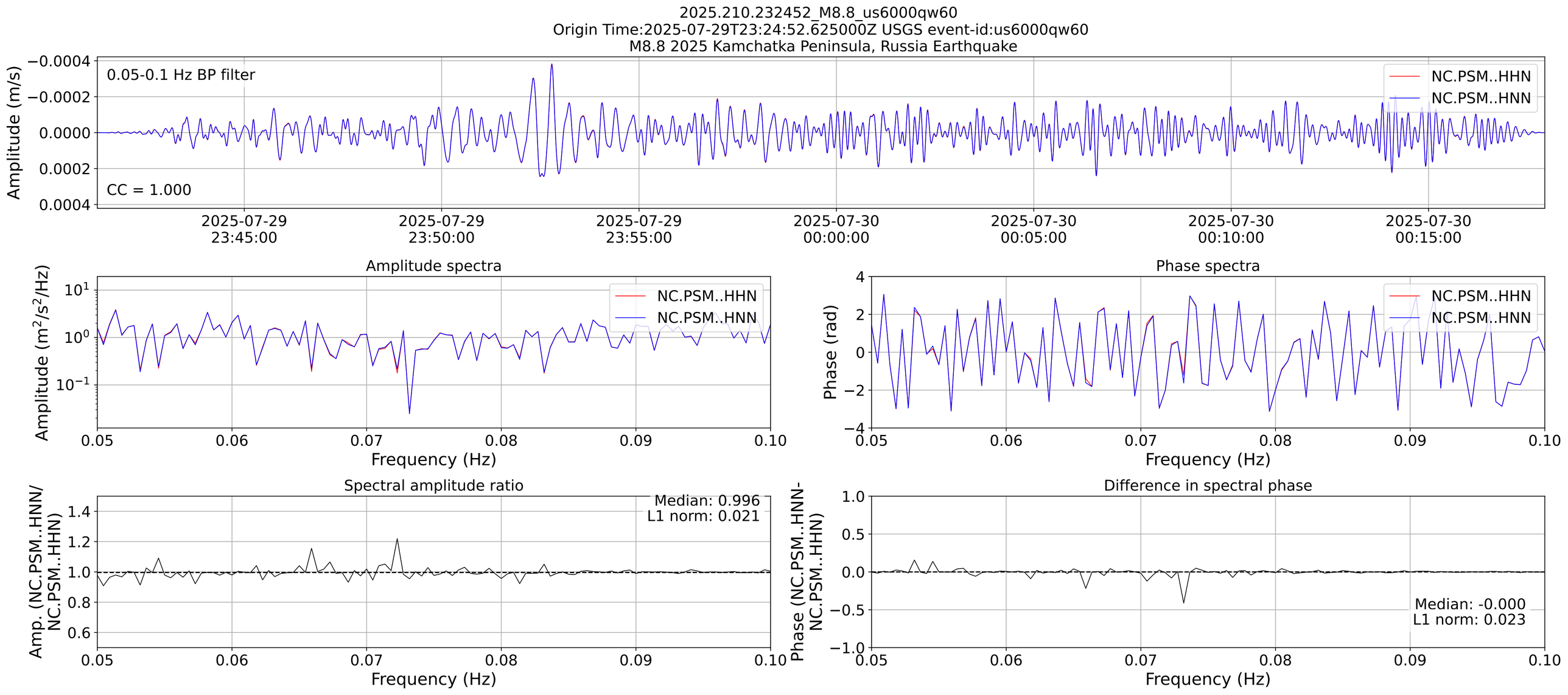

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PLOB.01.HHZ
NC.PLOB.01.HNZ
Amplitude (m/s)
0.0002
0.0000
−0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.PLOB.01.HNZ/ NC.PLOB.01.HHZ)
Median: 0.990
L1 norm: 0.021
Difference in spectral phase
Phase (NC.PLOB.01.HNZ-NC.PLOB.01.HHZ)
Median: -0.011
L1 norm: 0.020

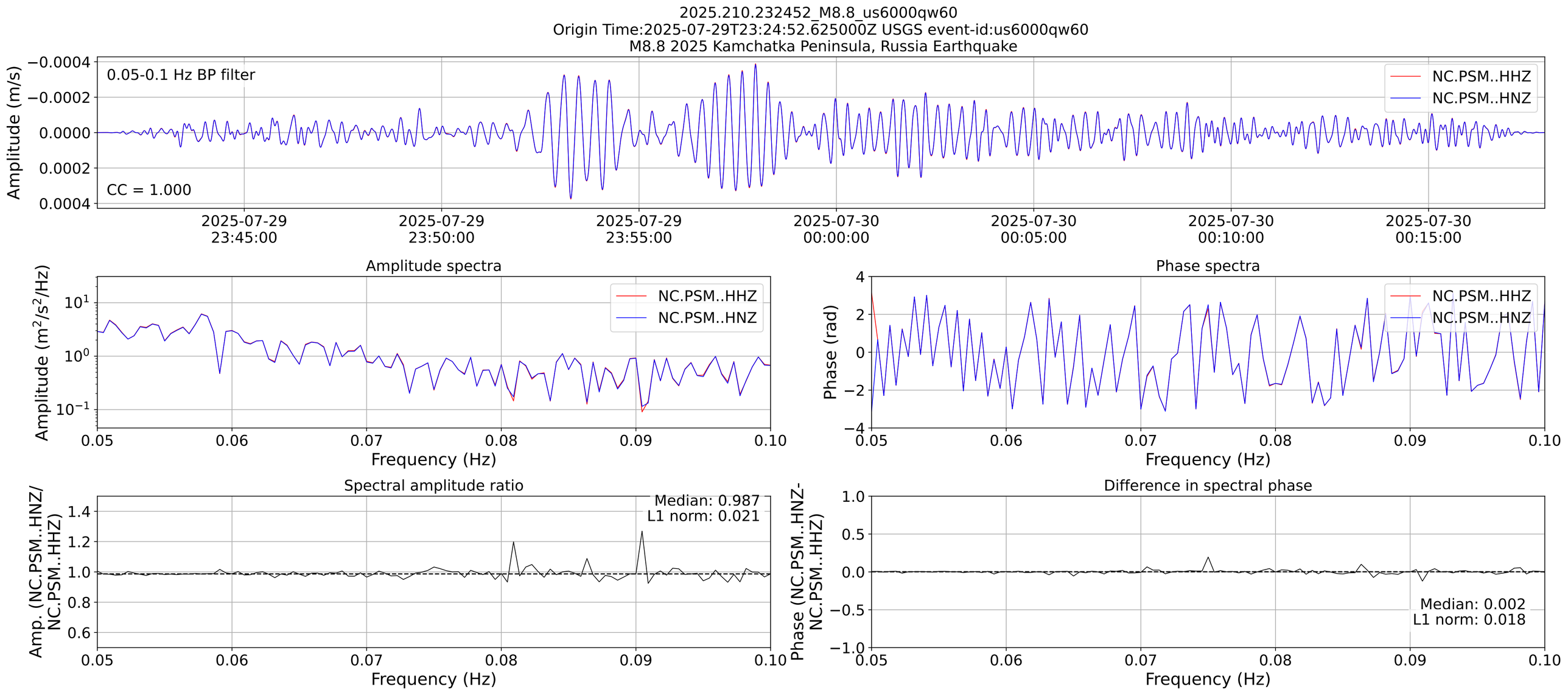

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.999
NC.PMPB..HHE
NC.PMPB..HNE
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PMPB..HNE/ NC.PMPB..HHE)
Median: 1.002
L1 norm: 0.075
Difference in spectral phase
Phase (NC.PMPB..HNE- NC.PMPB..HHE)
Median: 0.009
L1 norm: 0.069

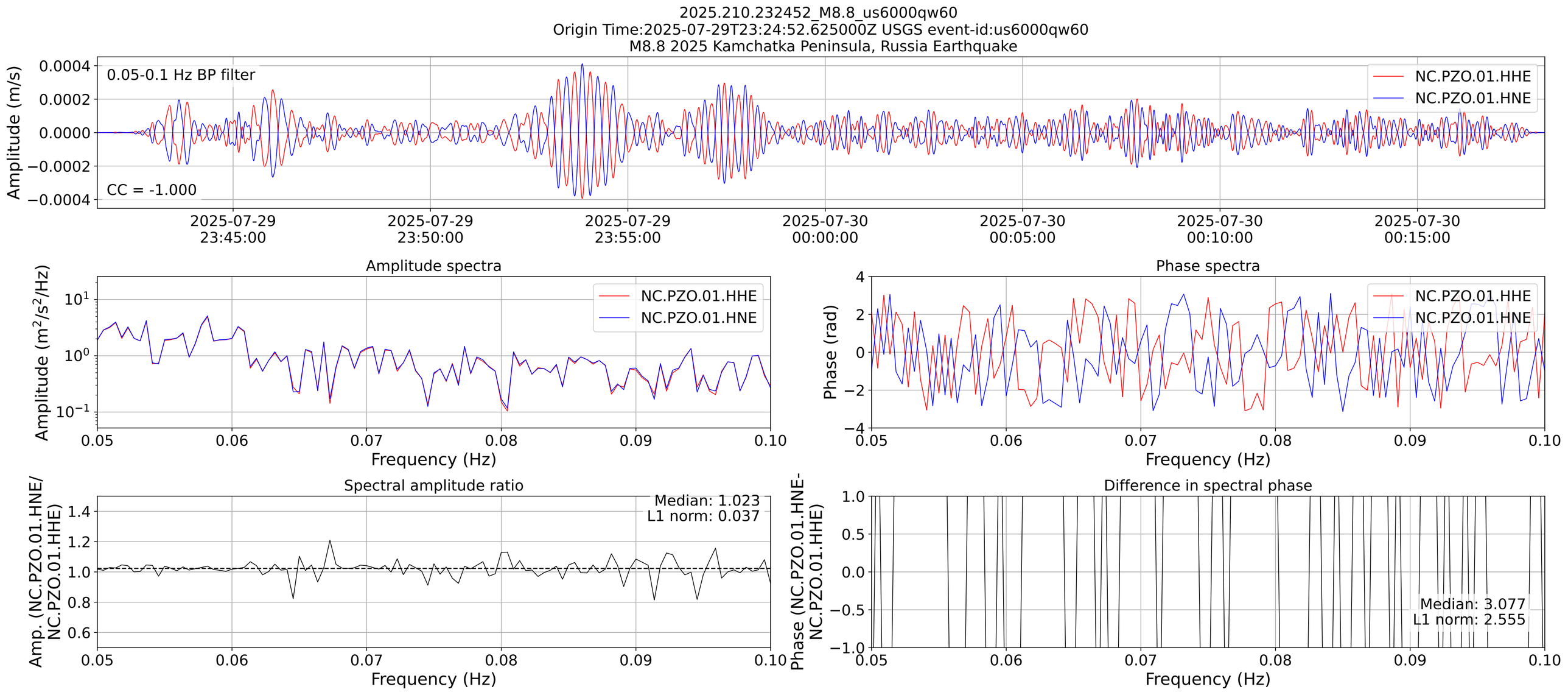

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 0.997
NC.PMPB..HHN
NC.PMPB..HNN
Amplitude (m/s)
−0.0002
0.0000
0.0002
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 23:55:00
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. (NC.PMPB..HNN/ NC.PMPB..HHN)
Median: 0.998
L1 norm: 0.054
Difference in spectral phase
Phase (NC.PMPB..HNN- NC.PMPB..HHN)
Median: 0.008
L1 norm: 0.044

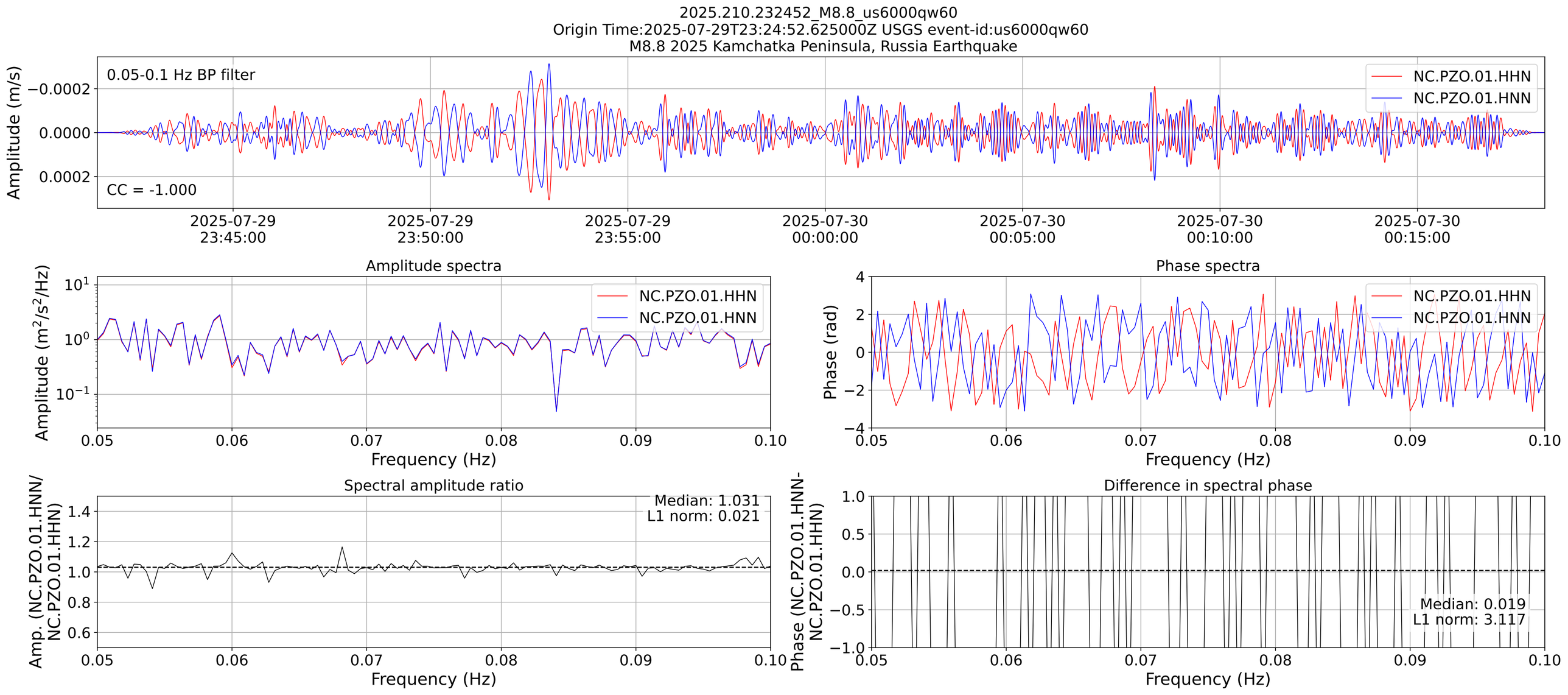

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PMPB..HHZ
NC.PMPB..HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PMPB..HNZ/ NC.PMPB..HHZ)
Median: 1.000
L1 norm: 0.023
Difference in spectral phase
Phase (NC.PMPB..HNZ- NC.PMPB..HHZ)
Median: 0.002
L1 norm: 0.026

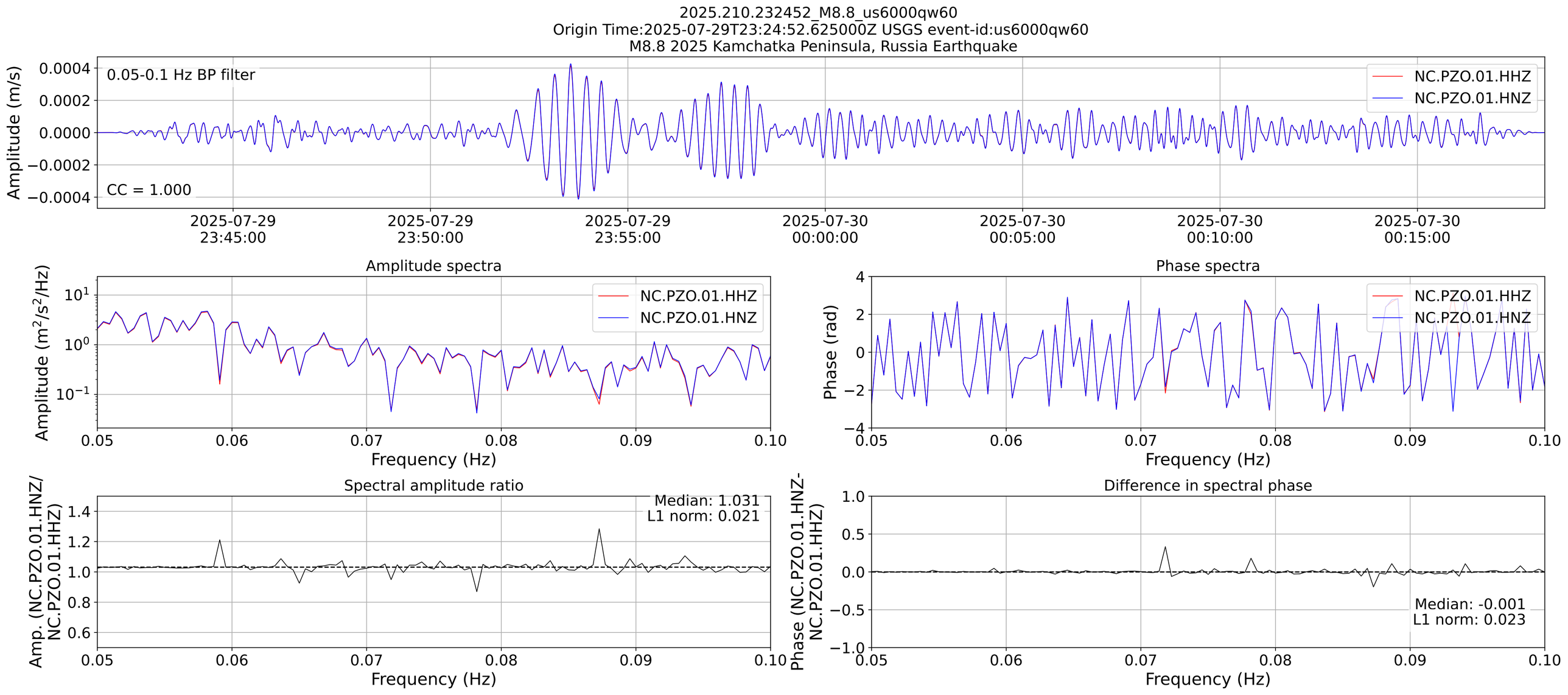

2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PSM..HHE
NC.PSM..HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2025-07-29 23:45:00
2025-07-29 23:50:00
2025-07-29 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. (NC.PSM..HNE/ NC.PSM..HHE)
Median: 0.996
L1 norm: 0.016
Difference in spectral phase
Phase (NC.PSM..HNE- NC.PSM..HHE)
Median: -0.000
L1 norm: 0.016


2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PSM..HHN
NC.PSM..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. (NC.PSM..HNN/ NC.PSM..HHN)
Median: 0.996
L1 norm: 0.021
Difference in spectral phase
Phase (NC.PSM..HNN- NC.PSM..HHN)
Median: -0.000
L1 norm: 0.023


2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PSM..HHZ
NC.PSM..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. (NC.PSM..HNZ/ NC.PSM..HHZ)
Median: 0.987
L1 norm: 0.021
Difference in spectral phase
Phase (NC.PSM..HNZ- NC.PSM..HHZ)
Median: 0.002
L1 norm: 0.018


2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -1.000
NC.PZO.01.HHE
NC.PZO.01.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. (NC.PZO.01.HNE/ NC.PZO.01.HHE)
Median: 1.023
L1 norm: 0.037
Difference in spectral phase
Phase (NC.PZO.01.HNE- NC.PZO.01.HHE)
Median: 3.077
L1 norm: 2.555


2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = -1.000
NC.PZO.01.HHN
NC.PZO.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. (NC.PZO.01.HNN/ NC.PZO.01.HHN)
Median: 1.031
L1 norm: 0.021
Difference in spectral phase
Phase (NC.PZO.01.HNN- NC.PZO.01.HHN)
Median: 0.019
L1 norm: 3.117


2025.210.232452_M8.8_us6000qw60
Origin Time:2025-07-29T23:24:52.625000Z USGS event-id:us6000qw60
M8.8 2025 Kamchatka Peninsula, Russia Earthquake
0.05-0.1 Hz BP filter
CC = 1.000
NC.PZO.01.HHZ
NC.PZO.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. (NC.PZO.01.HNZ/ NC.PZO.01.HHZ)
Median: 1.031
L1 norm: 0.021
Difference in spectral phase
Phase (NC.PZO.01.HNZ-NC.PZO.01.HHZ)
Median: -0.001
L1 norm: 0.023