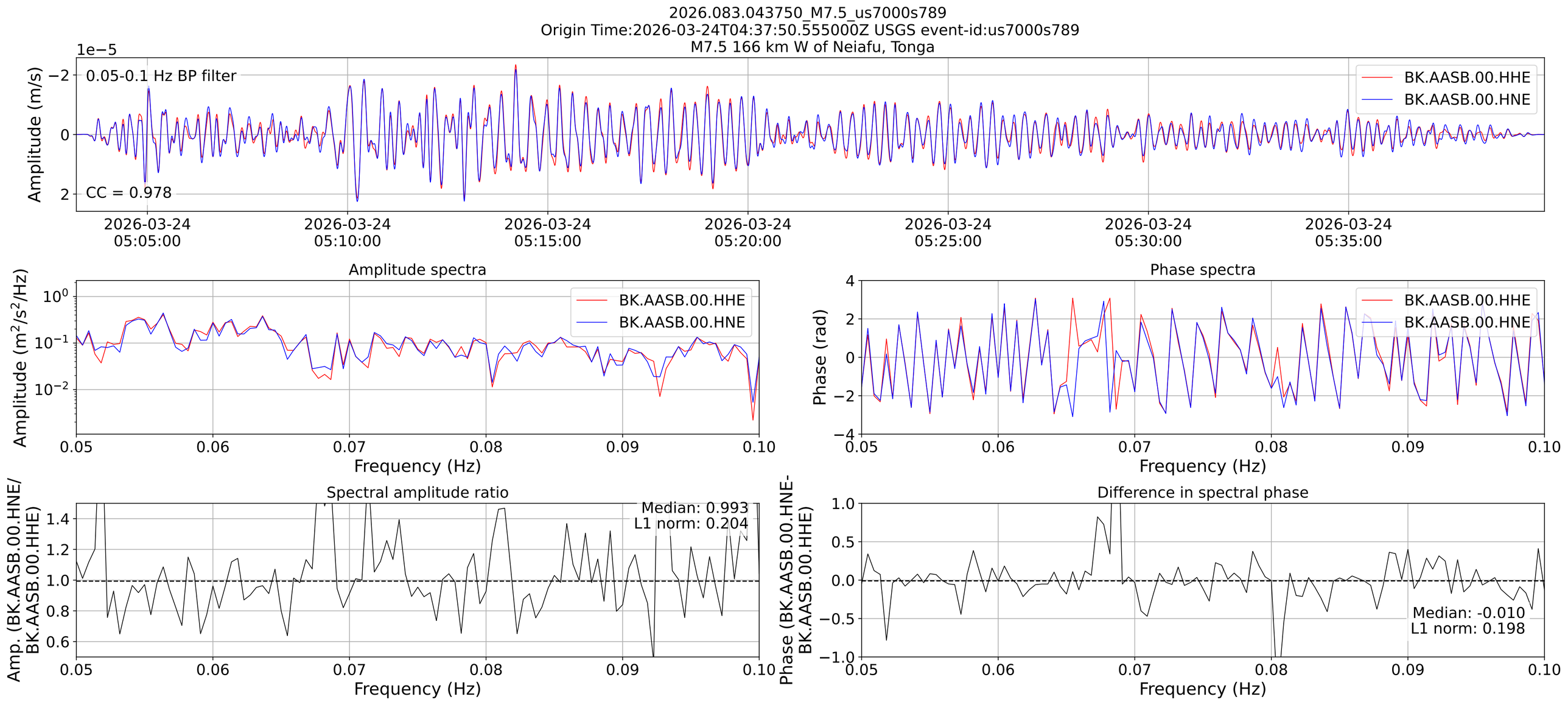
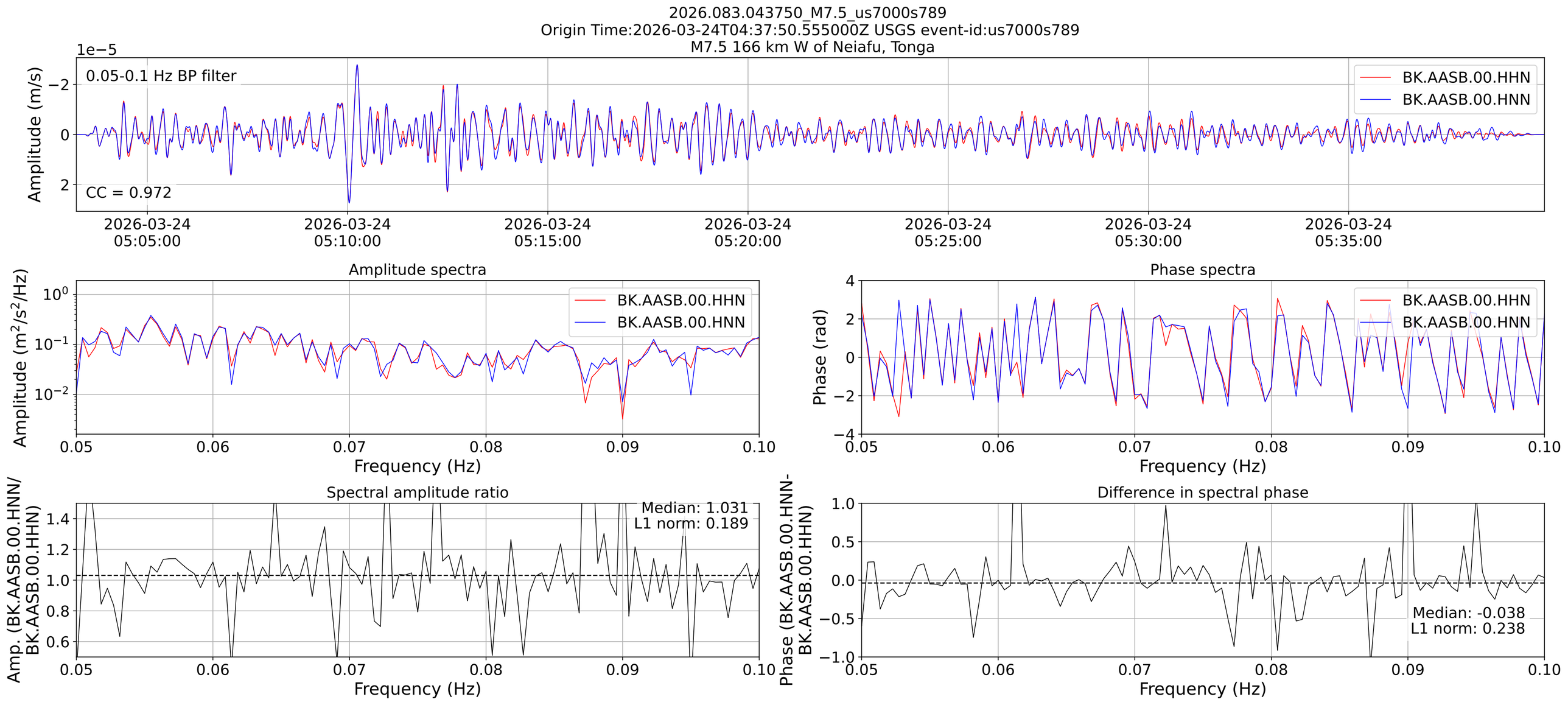
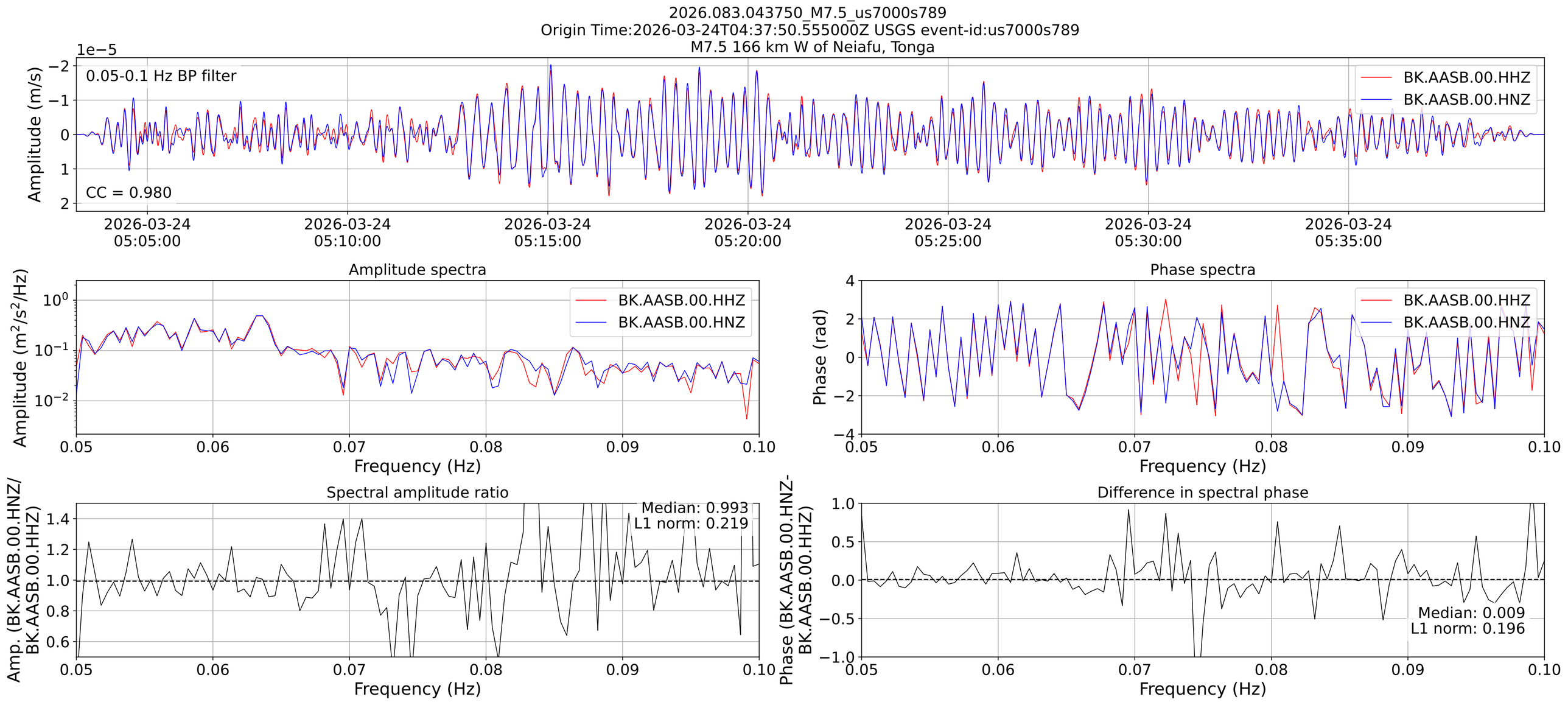
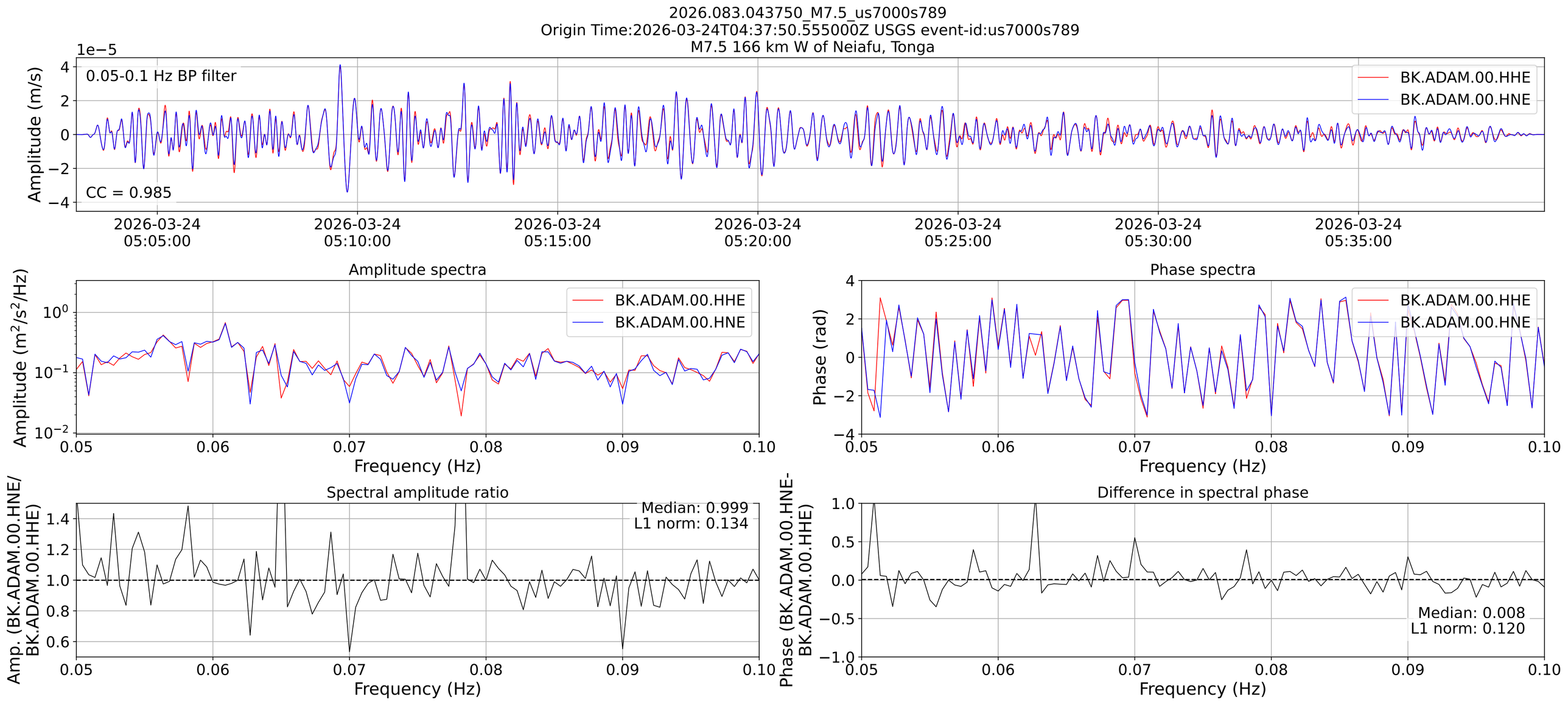
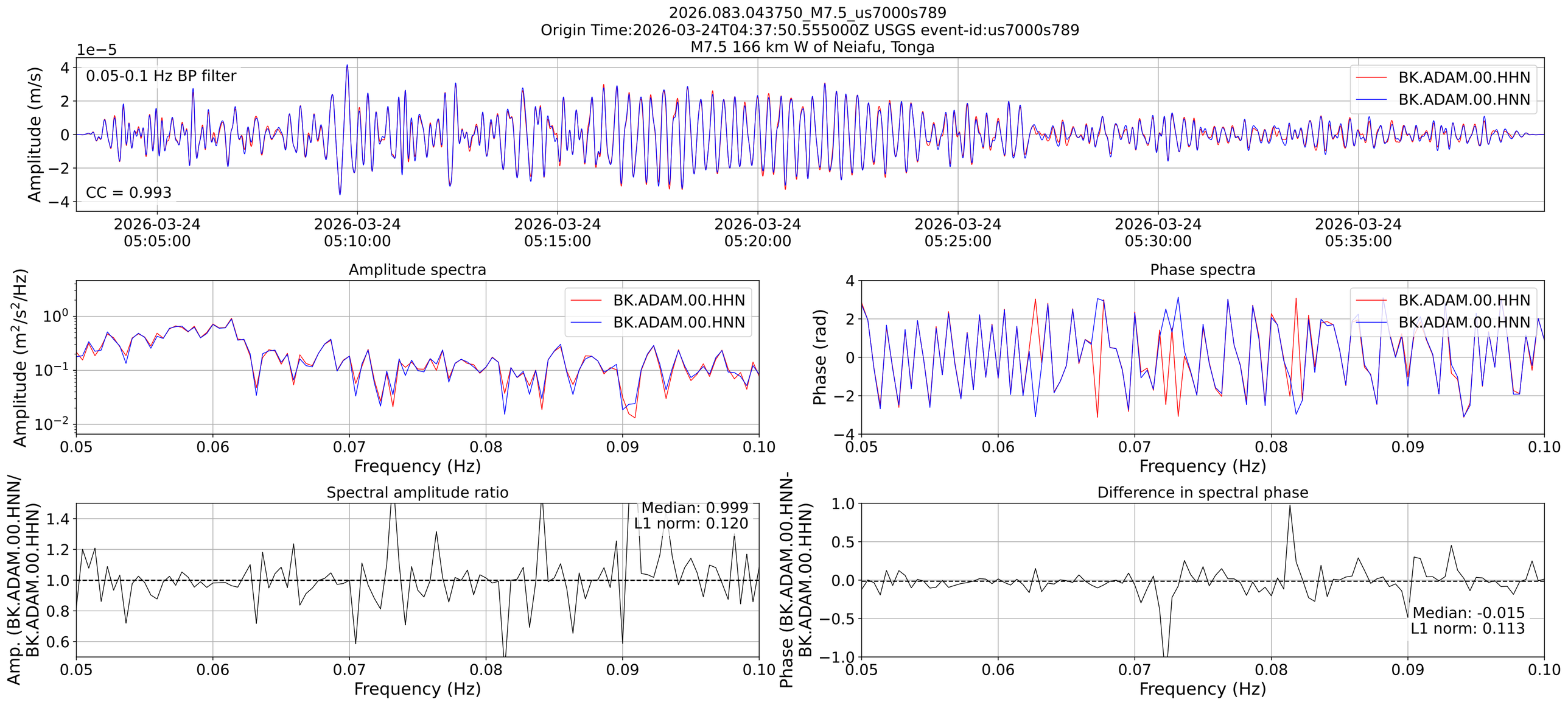
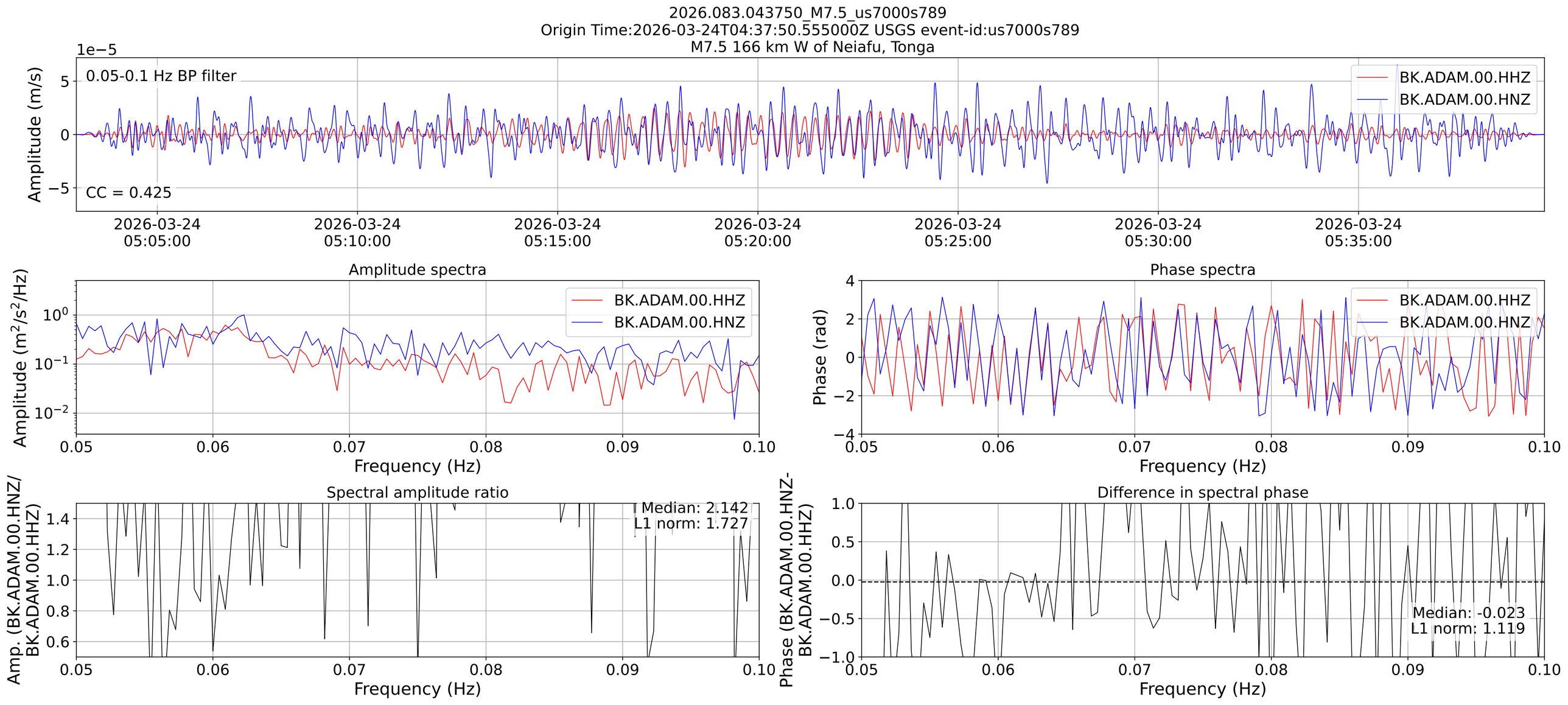

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.978
BK.AASB.00.HHE
BK.AASB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AASB.00.HNE/ BK.AASB.00.HHE)
Median: 0.993
L1 norm: 0.204
Difference in spectral phase
Phase (BK.AASB.00.HNE- BK.AASB.00.HHE)
Median: -0.010
L1 norm: 0.198

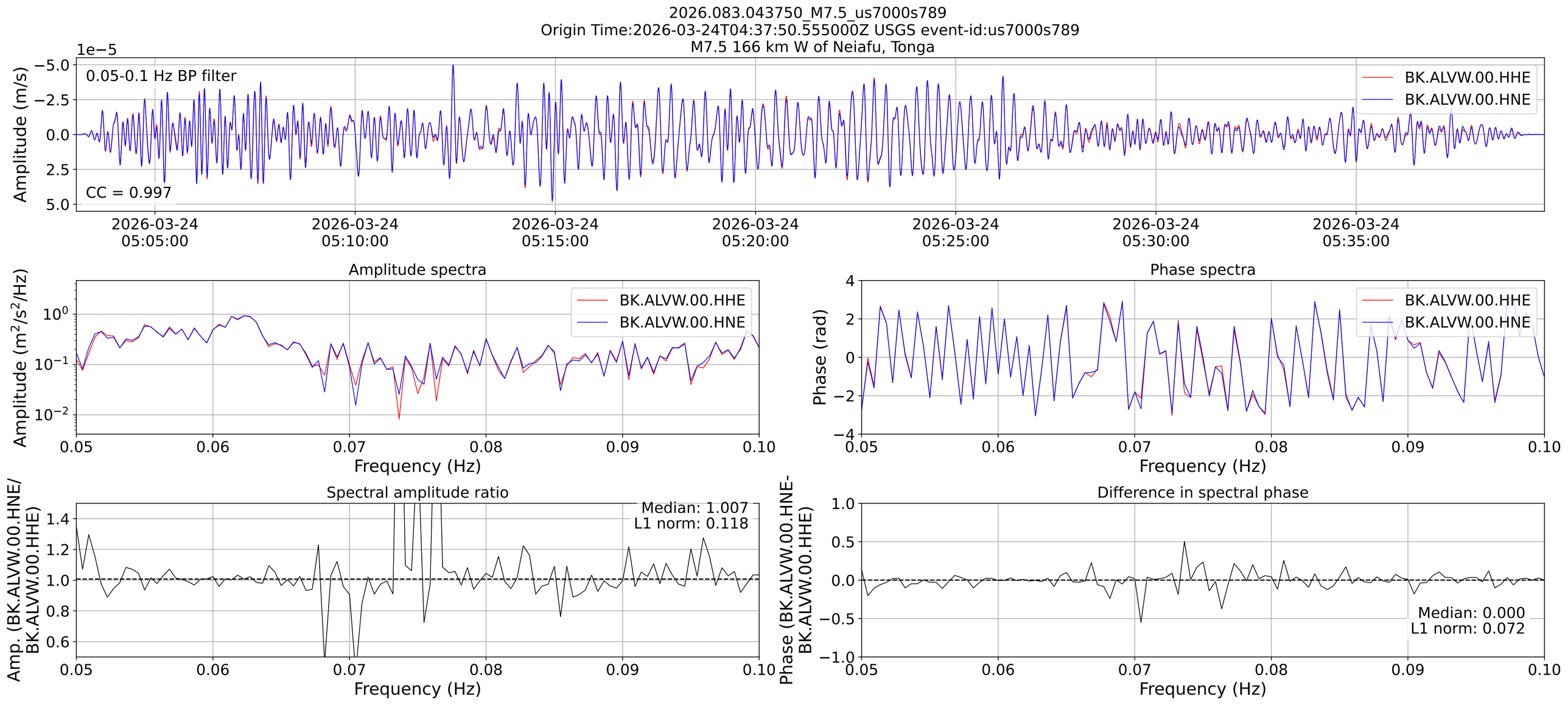

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.972
Amplitude (m/s)
BK.AASB.00.HHN
BK.AASB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AASB.00.HNN/ BK.AASB.00.HHN)
Median: 1.031
L1 norm: 0.189
Difference in spectral phase
Phase (BK.AASB.00.HNN- BK.AASB.00.HHN)
Median: -0.038
L1 norm: 0.238

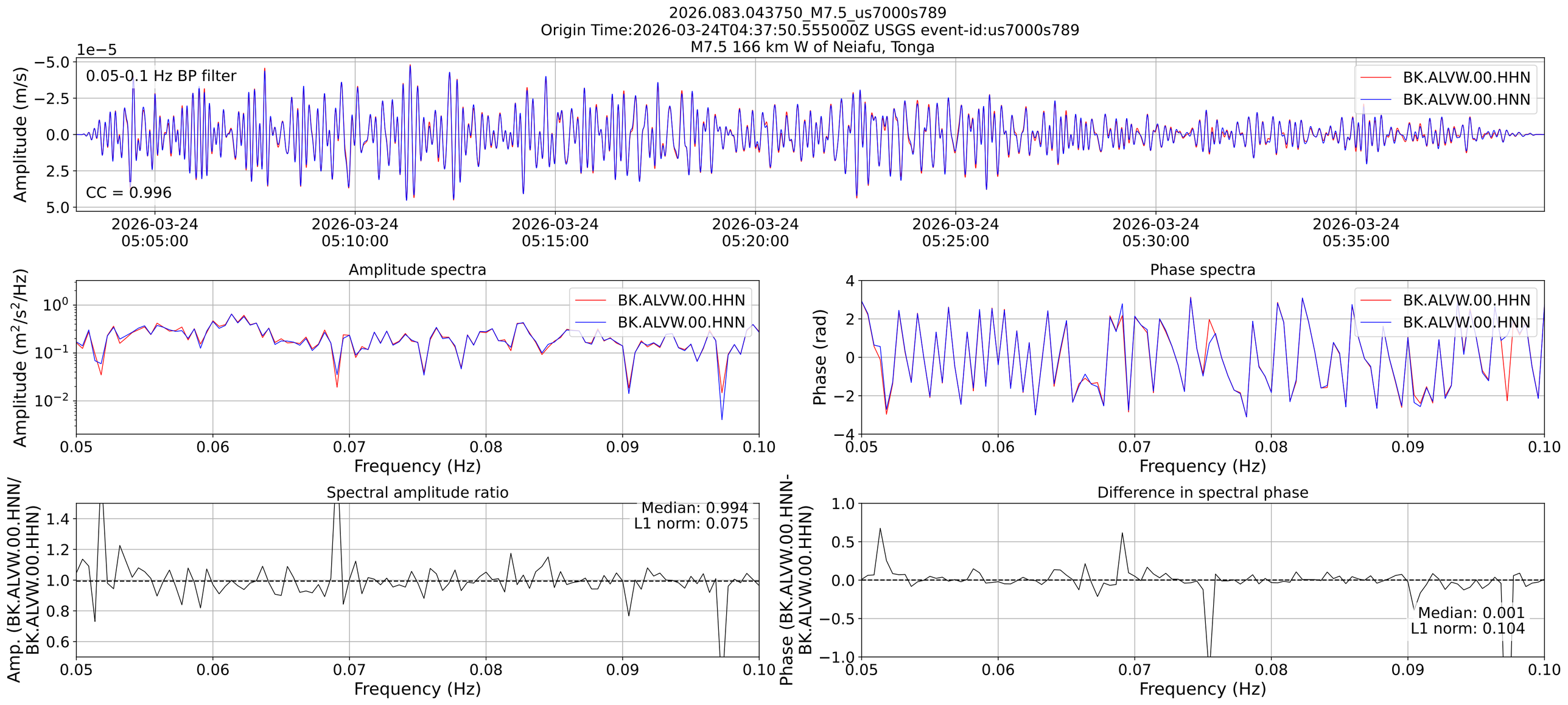

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.AASB.00.HHZ
BK.AASB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AASB.00.HNZ/ BK.AASB.00.HHZ)
Median: 0.993
L1 norm: 0.219
Difference in spectral phase
Phase (BK.AASB.00.HNZ- BK.AASB.00.HHZ)
Median: 0.009
L1 norm: 0.196

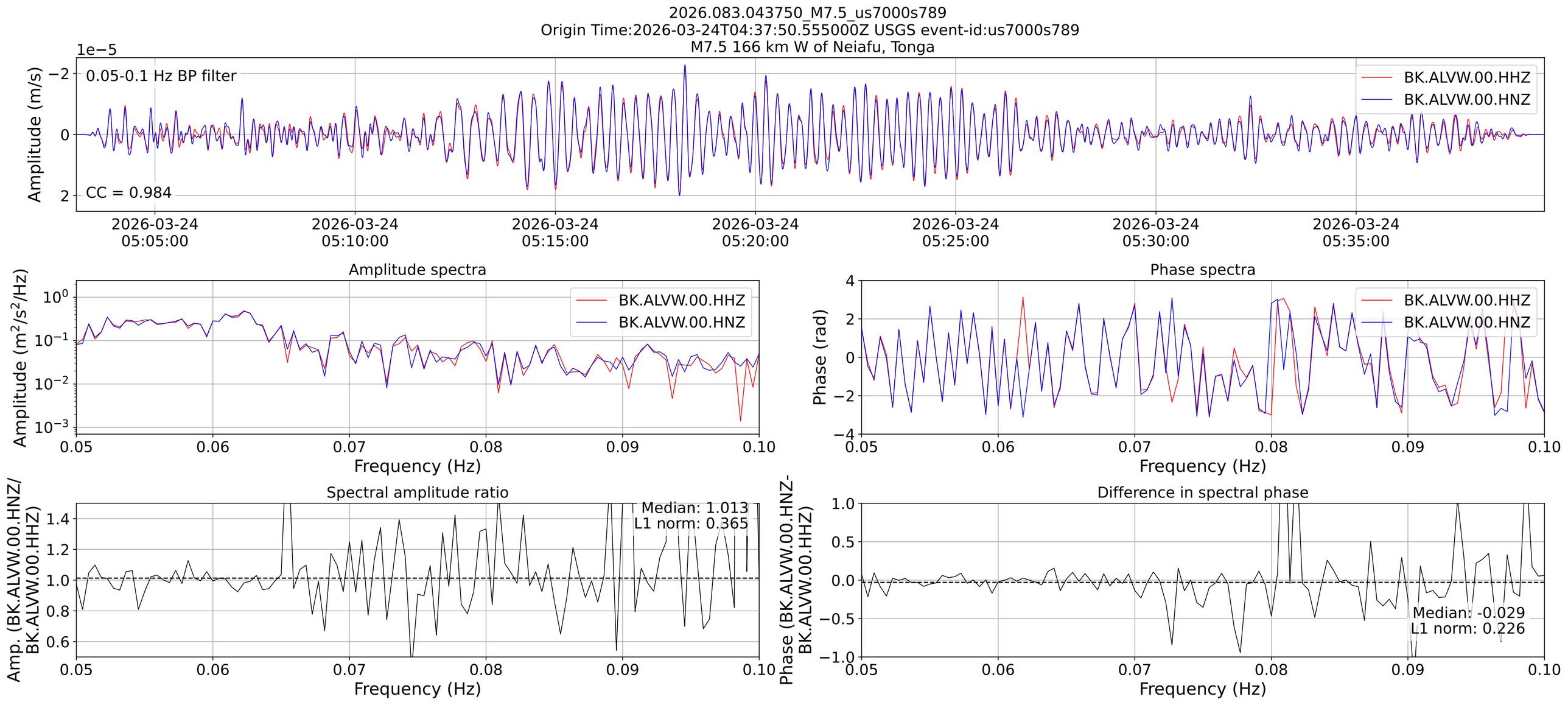

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
BK.ADAM.00.HHE
BK.ADAM.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNE/ BK.ADAM.00.HHE)
Median: 0.999
L1 norm: 0.134
Difference in spectral phase
Phase (BK.ADAM.00.HNE- BK.ADAM.00.HHE)
Median: 0.008
L1 norm: 0.120

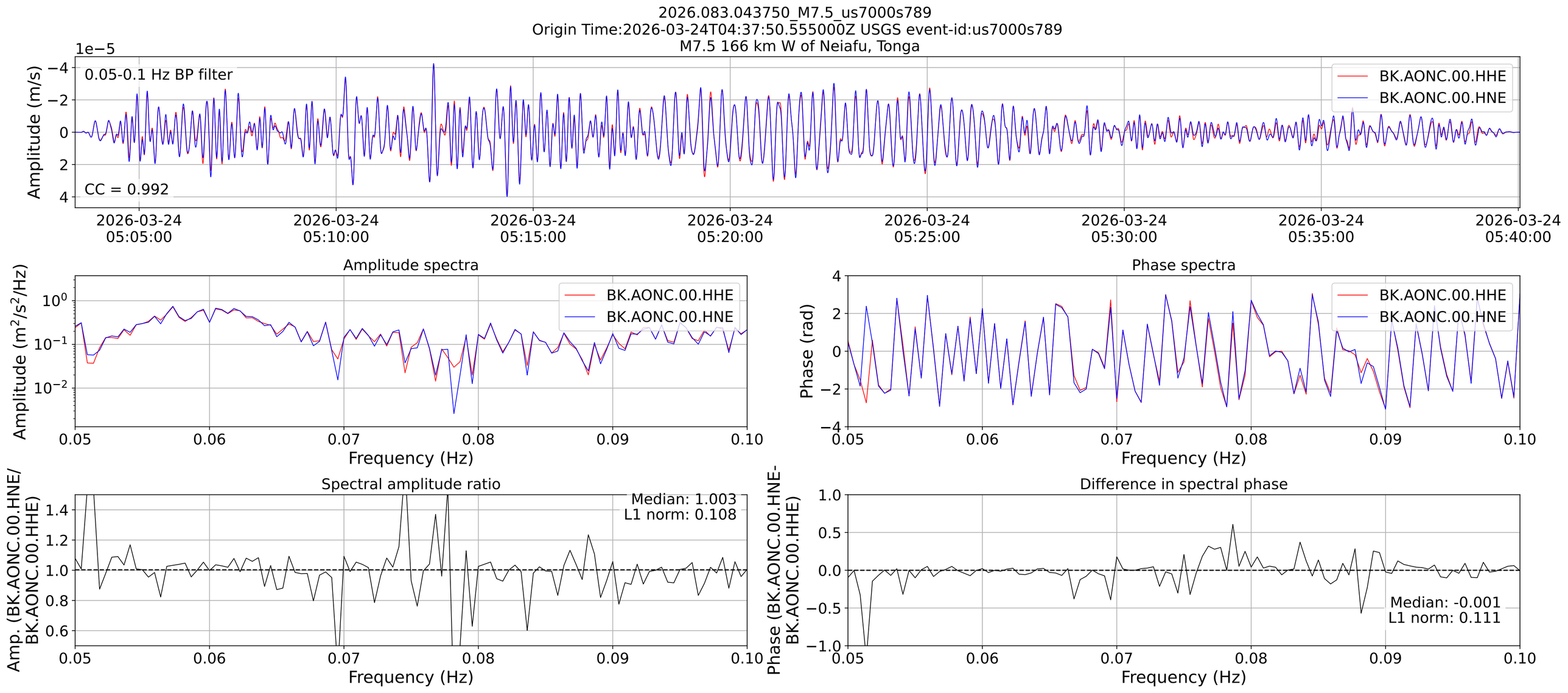

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.ADAM.00.HHN
BK.ADAM.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNN/ BK.ADAM.00.HHN)
Median: 0.999
L1 norm: 0.120
Difference in spectral phase
Phase (BK.ADAM.00.HNN- BK.ADAM.00.HHN)
Median: -0.015
L1 norm: 0.113

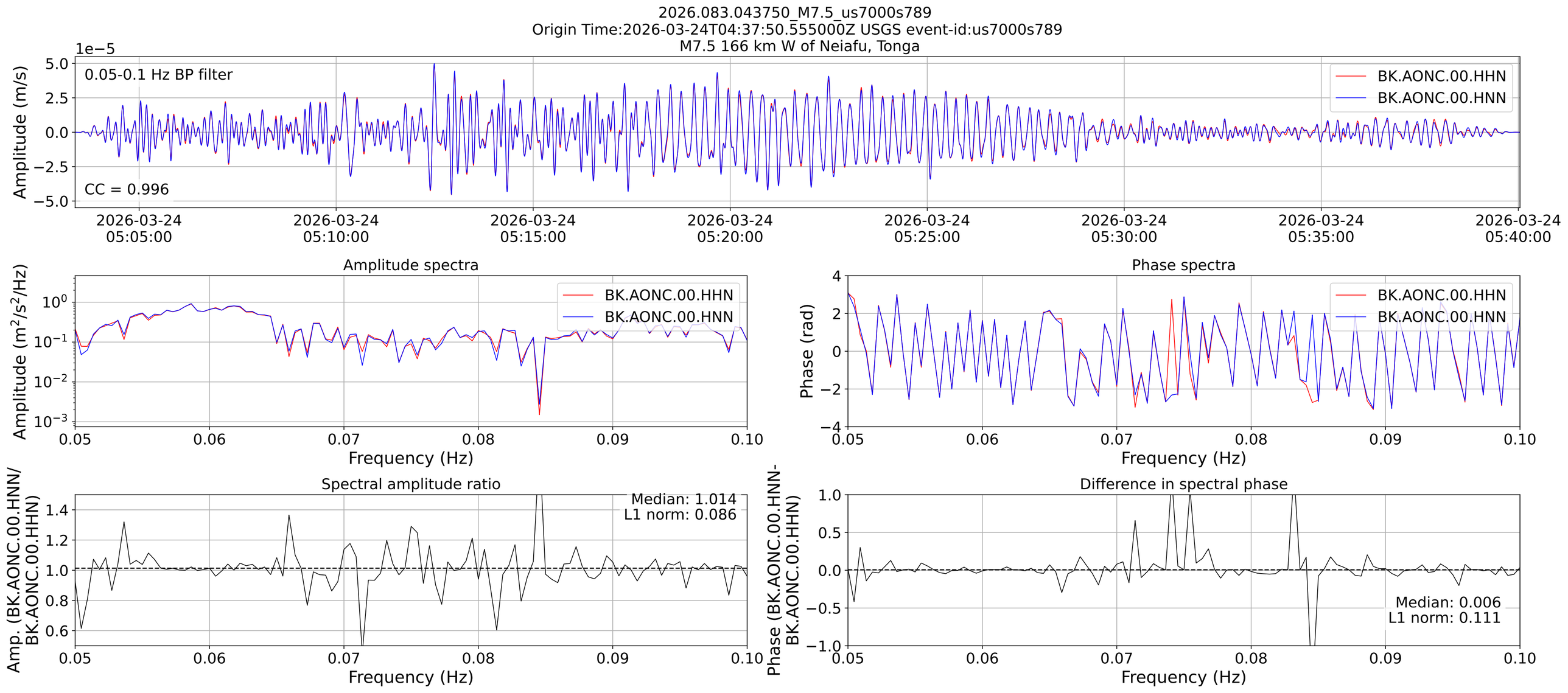

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.425
BK.ADAM.00.HHZ
BK.ADAM.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ADAM.00.HNZ/ BK.ADAM.00.HHZ)
Median: 2.142
L1 norm: 1.727
Difference in spectral phase
Phase (BK.ADAM.00.HNZ- BK.ADAM.00.HHZ)
Median: -0.023
L1 norm: 1.119

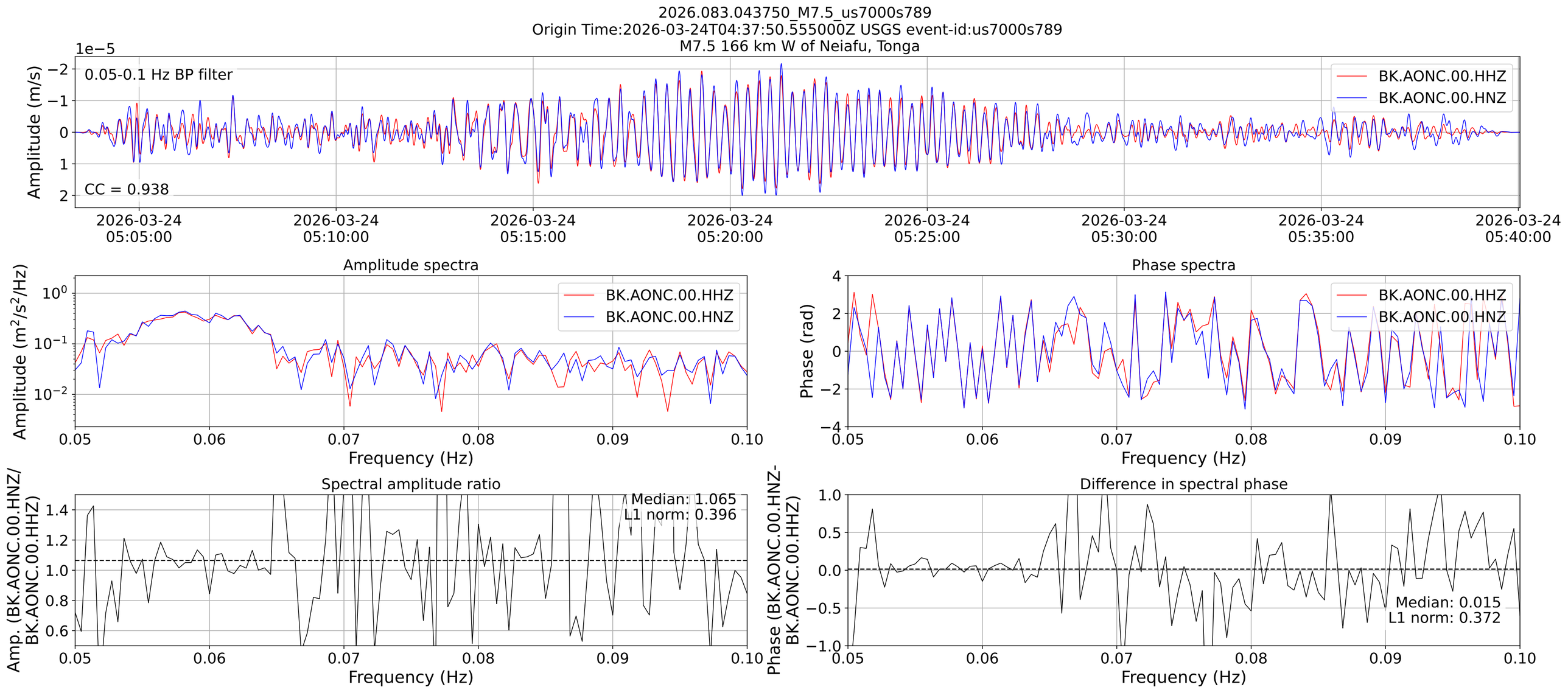

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
BK.ALVW.00.HHE
BK.ALVW.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNE/ BK.ALVW.00.HHE)
Median: 1.007
L1 norm: 0.118
Difference in spectral phase
Phase (BK.ALVW.00.HNE- BK.ALVW.00.HHE)
Median: 0.000
L1 norm: 0.072

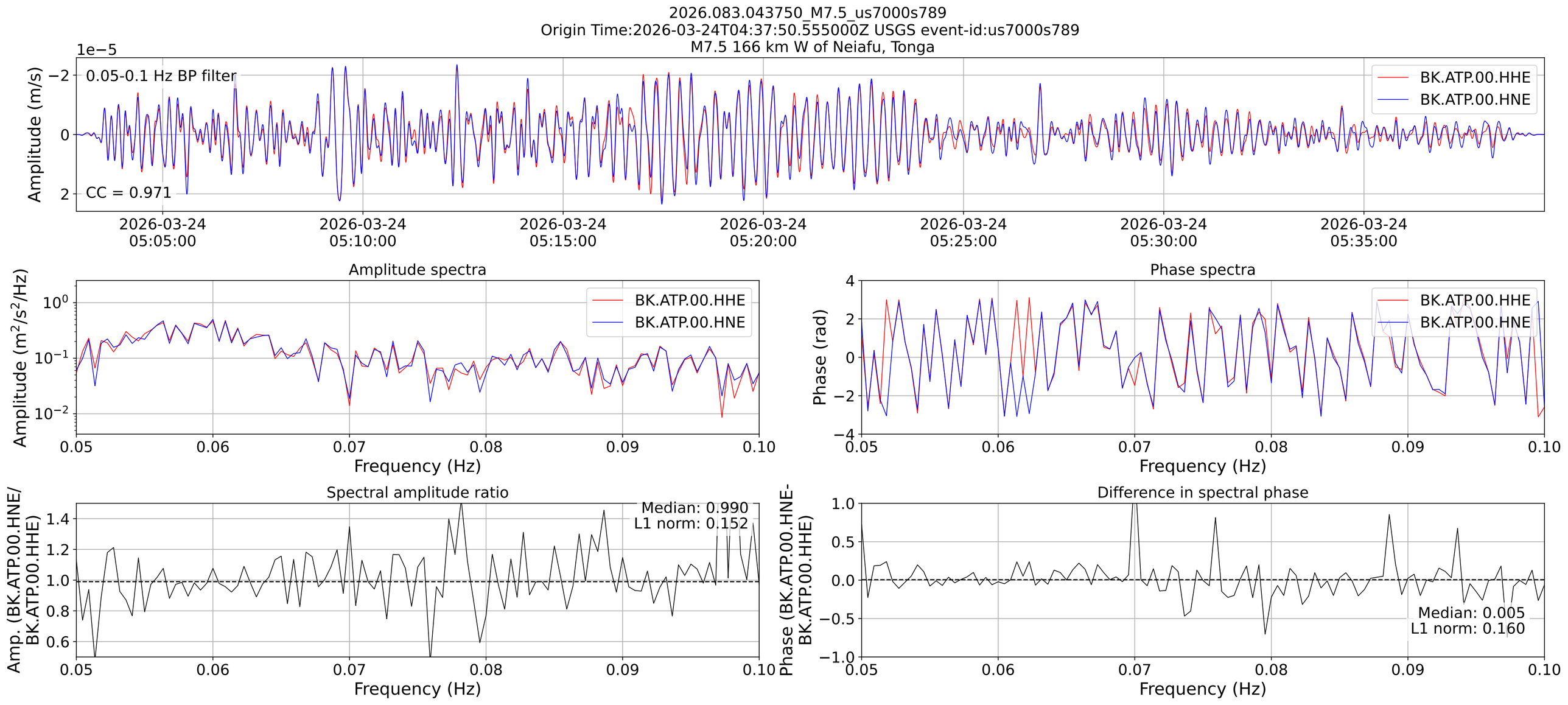

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.ALVW.00.HHN
BK.ALVW.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNN/ BK.ALVW.00.HHN)
Median: 0.994
L1 norm: 0.075
Difference in spectral phase
Phase (BK.ALVW.00.HNN- BK.ALVW.00.HHN)
Median: 0.001
L1 norm: 0.104

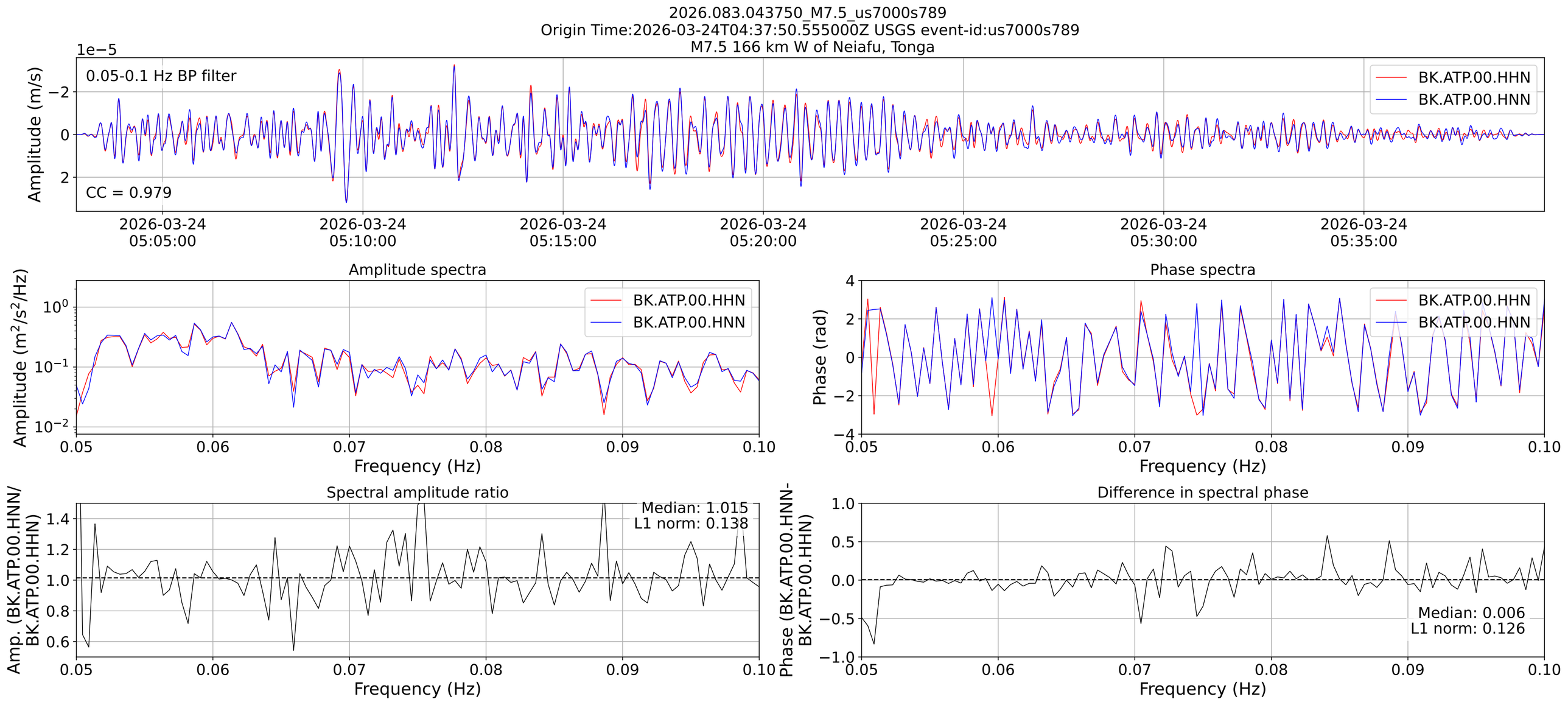

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.ALVW.00.HHZ
BK.ALVW.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ALVW.00.HNZ/ BK.ALVW.00.HHZ)
Median: 1.013
L1 norm: 0.365
Difference in spectral phase
Phase (BK.ALVW.00.HNZ-BK.ALVW.00.HHZ)
Median: -0.029
L1 norm: 0.226

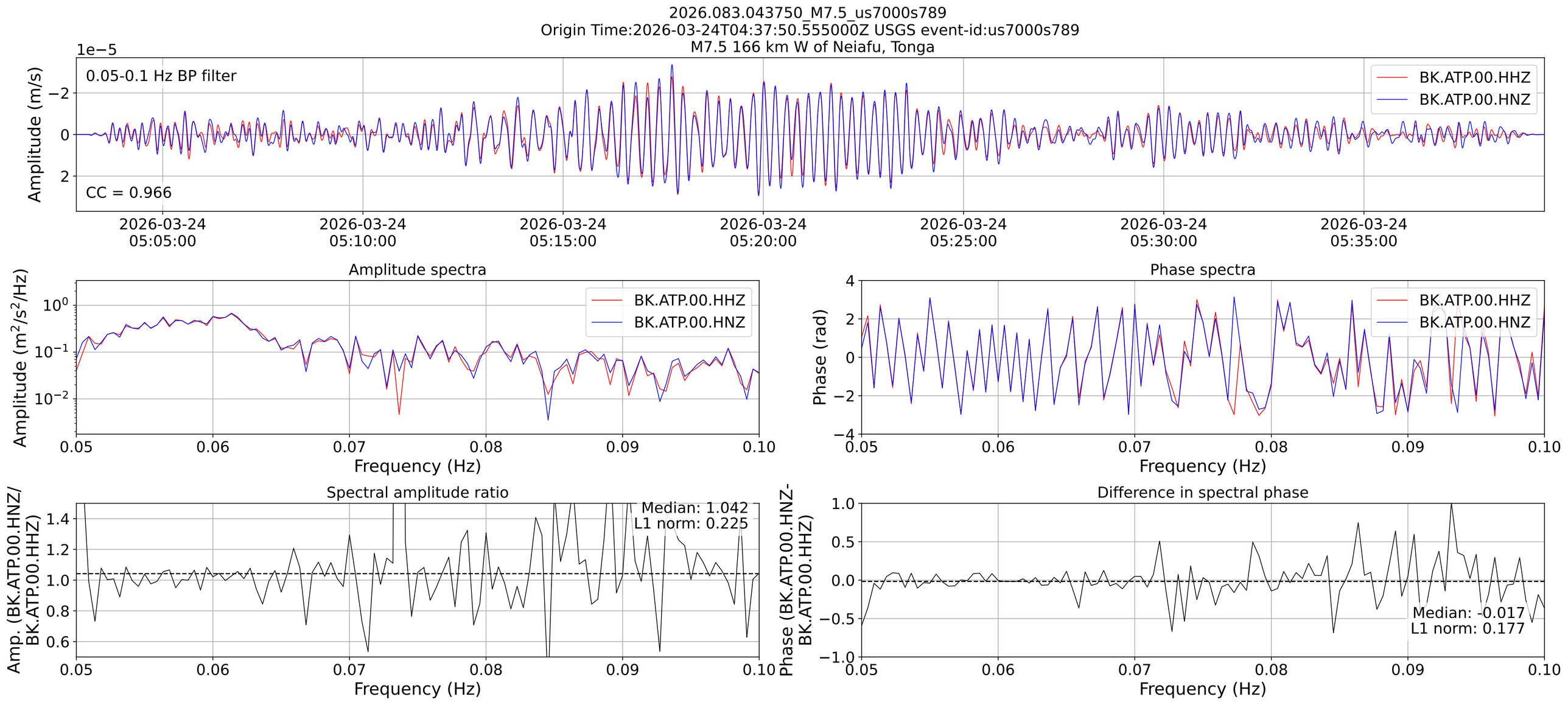

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.AONC.00.HHE
BK.AONC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNE/ BK.AONC.00.HHE)
Median: 1.003
L1 norm: 0.108
Difference in spectral phase
Phase (BK.AONC.00.HNE- BK.AONC.00.HHE)
Median: -0.001
L1 norm: 0.111

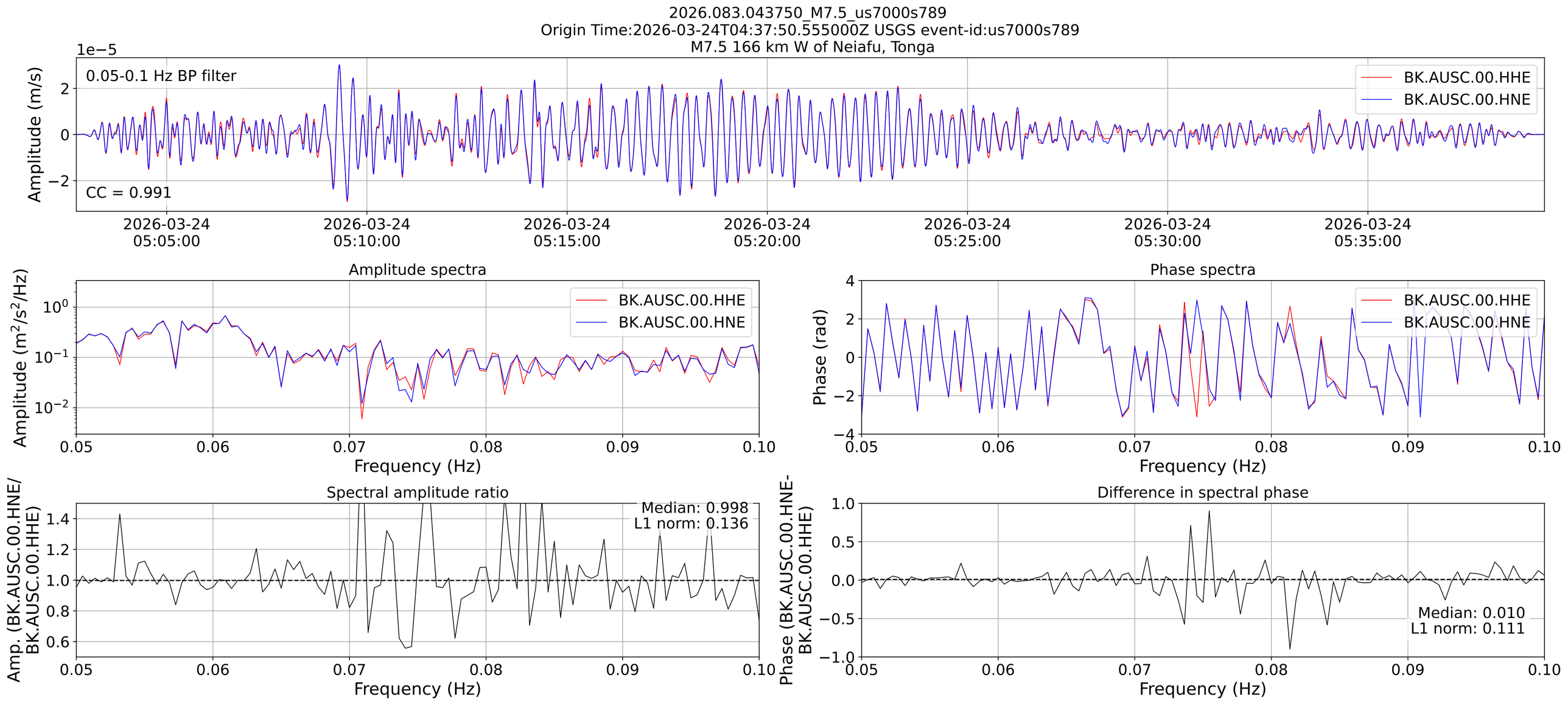

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.AONC.00.HHN
BK.AONC.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNN/ BK.AONC.00.HHN)
Median: 1.014
L1 norm: 0.086
Difference in spectral phase
Phase (BK.AONC.00.HNN- BK.AONC.00.HHN)
Median: 0.006
L1 norm: 0.111

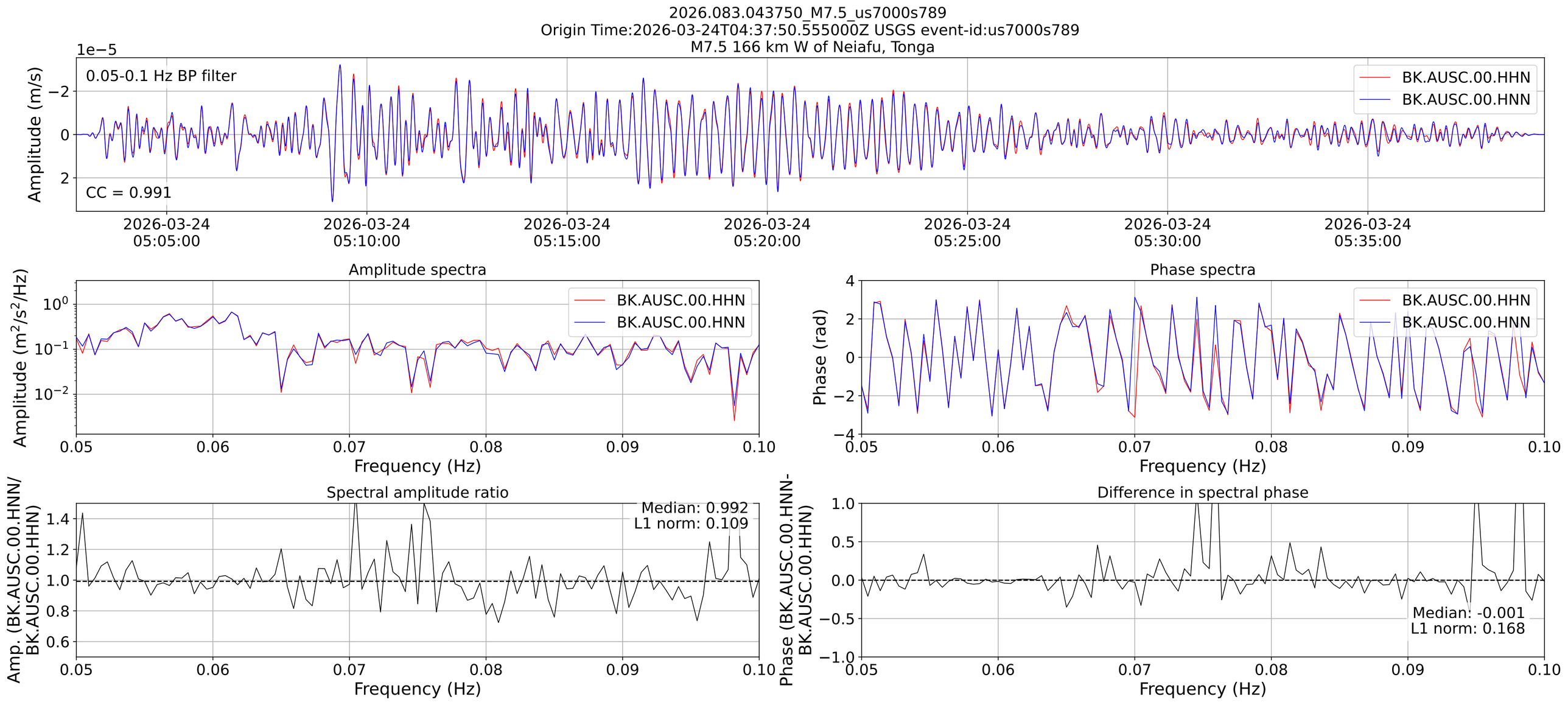

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.938
Amplitude (m/s)
BK.AONC.00.HHZ
BK.AONC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AONC.00.HNZ/ BK.AONC.00.HHZ)
Median: 1.065
L1 norm: 0.396
Difference in spectral phase
Phase (BK.AONC.00.HNZ- BK.AONC.00.HHZ)
Median: 0.015
L1 norm: 0.372

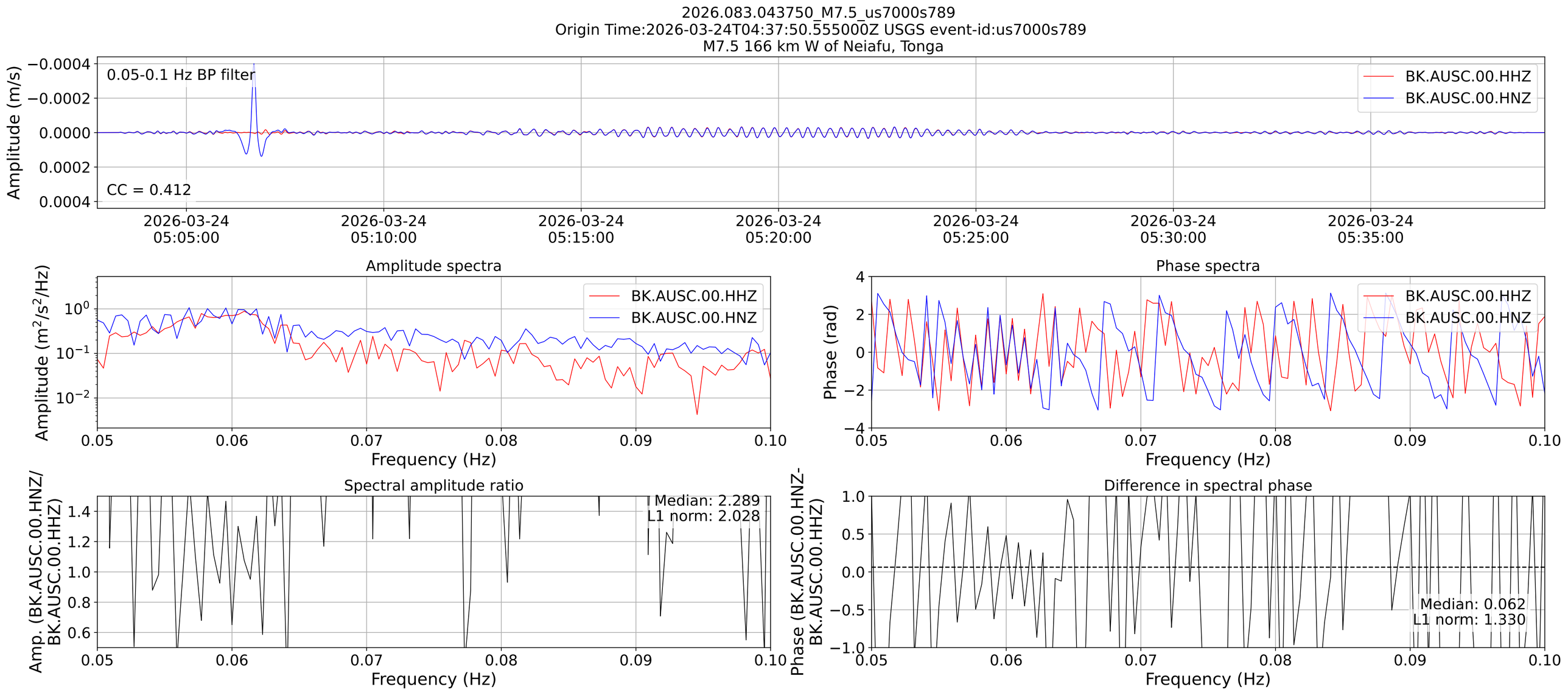

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.971
BK.ATP.00.HHE
BK.ATP.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNE/ BK.ATP.00.HHE)
Median: 0.990
L1 norm: 0.152
Difference in spectral phase
Phase (BK.ATP.00.HNE- BK.ATP.00.HHE)
Median: 0.005
L1 norm: 0.160

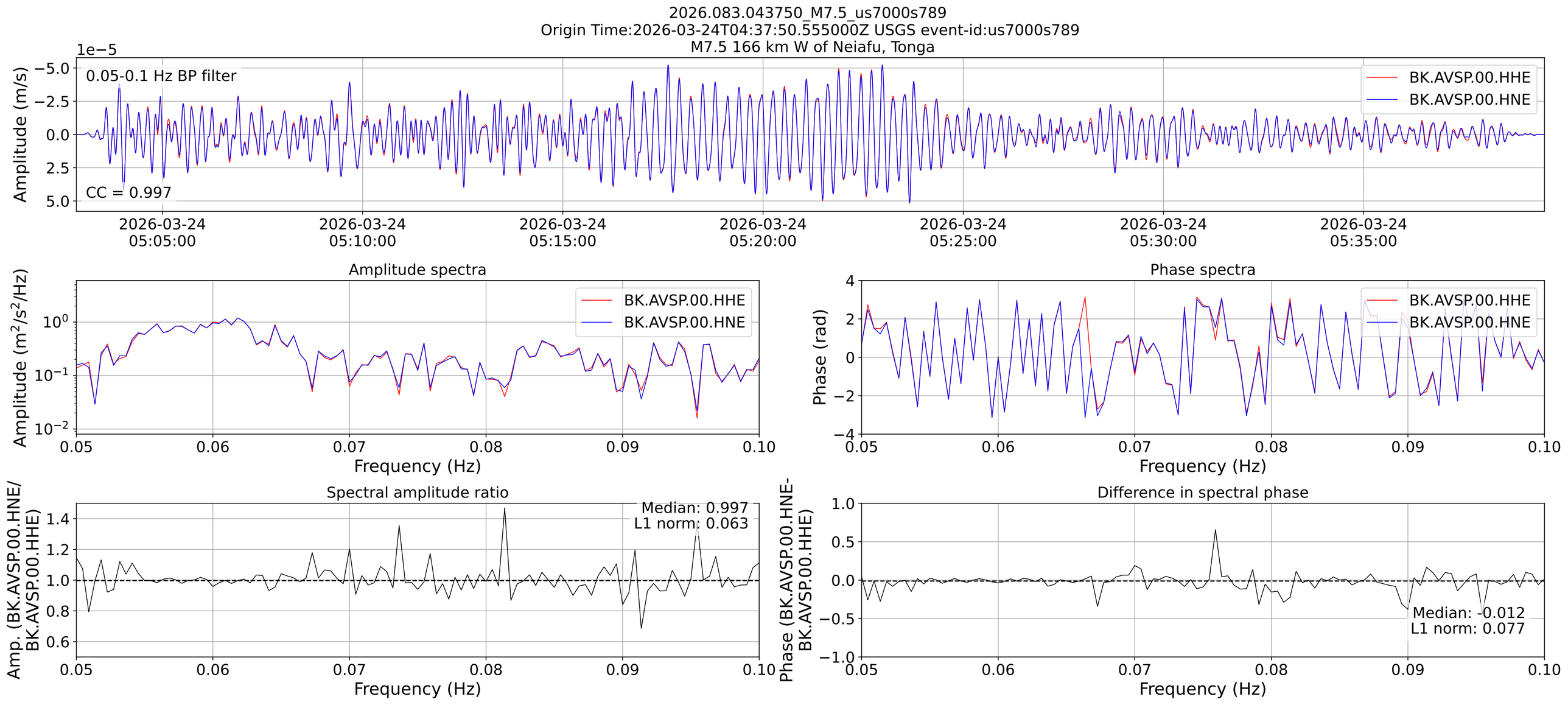

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.979
BK.ATP.00.HHN
BK.ATP.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNN/ BK.ATP.00.HHN)
Median: 1.015
L1 norm: 0.138
Difference in spectral phase
Phase (BK.ATP.00.HNN- BK.ATP.00.HHN)
Median: 0.006
L1 norm: 0.126

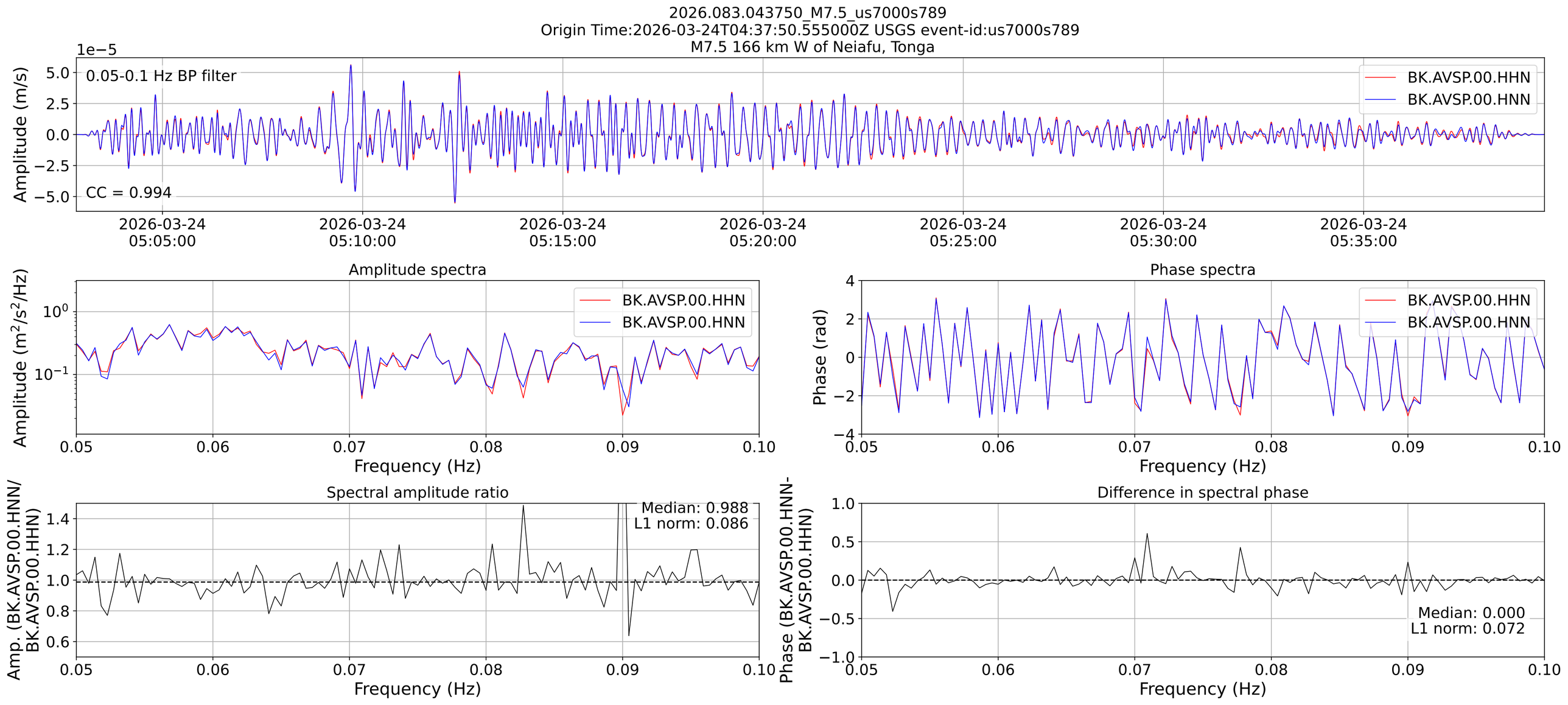

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.966
BK.ATP.00.HHZ
BK.ATP.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ATP.00.HNZ/ BK.ATP.00.HHZ)
Median: 1.042
L1 norm: 0.225
Difference in spectral phase
Phase (BK.ATP.00.HNZ- BK.ATP.00.HHZ)
Median: -0.017
L1 norm: 0.177

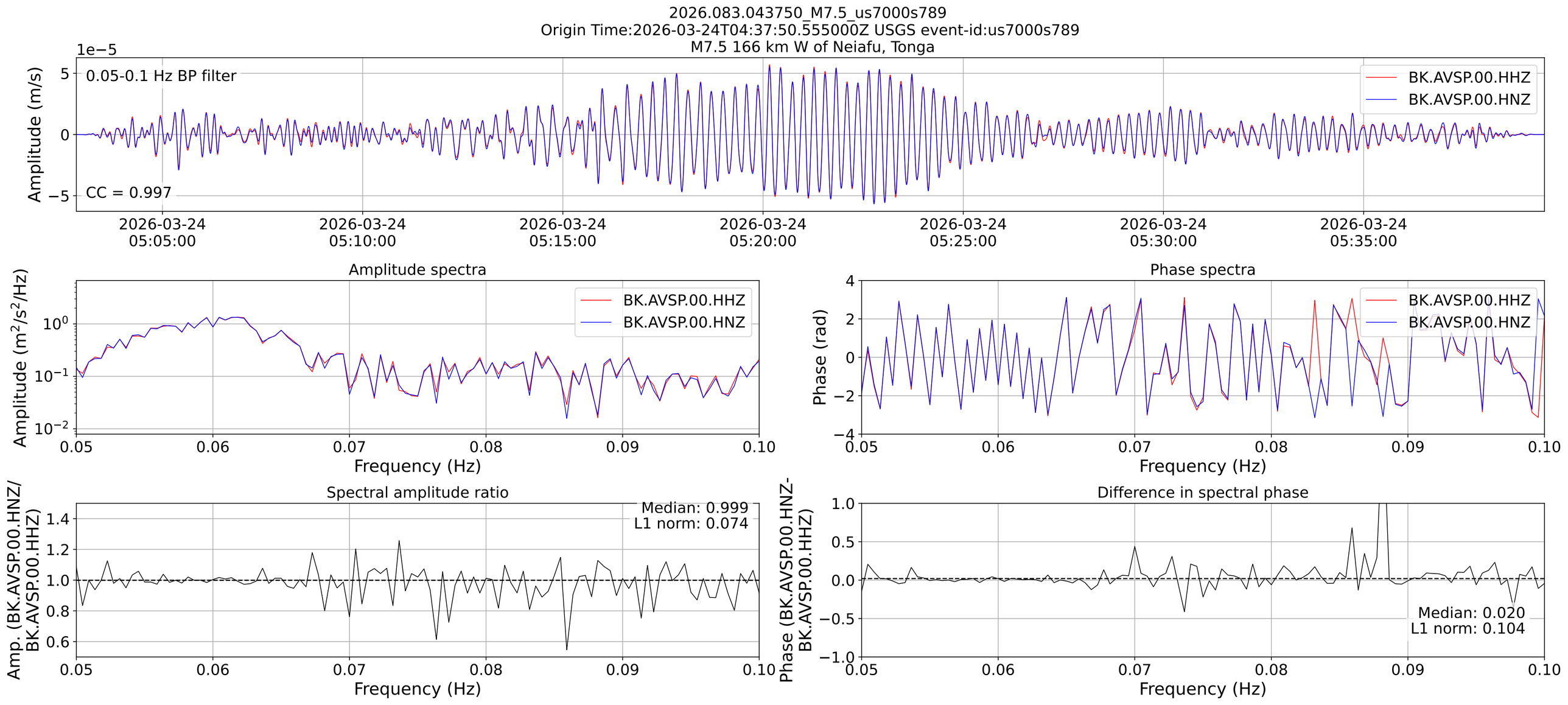

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.AUSC.00.HHE
BK.AUSC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNE/ BK.AUSC.00.HHE)
Median: 0.998
L1 norm: 0.136
Difference in spectral phase
Phase (BK.AUSC.00.HNE- BK.AUSC.00.HHE)
Median: 0.010
L1 norm: 0.111

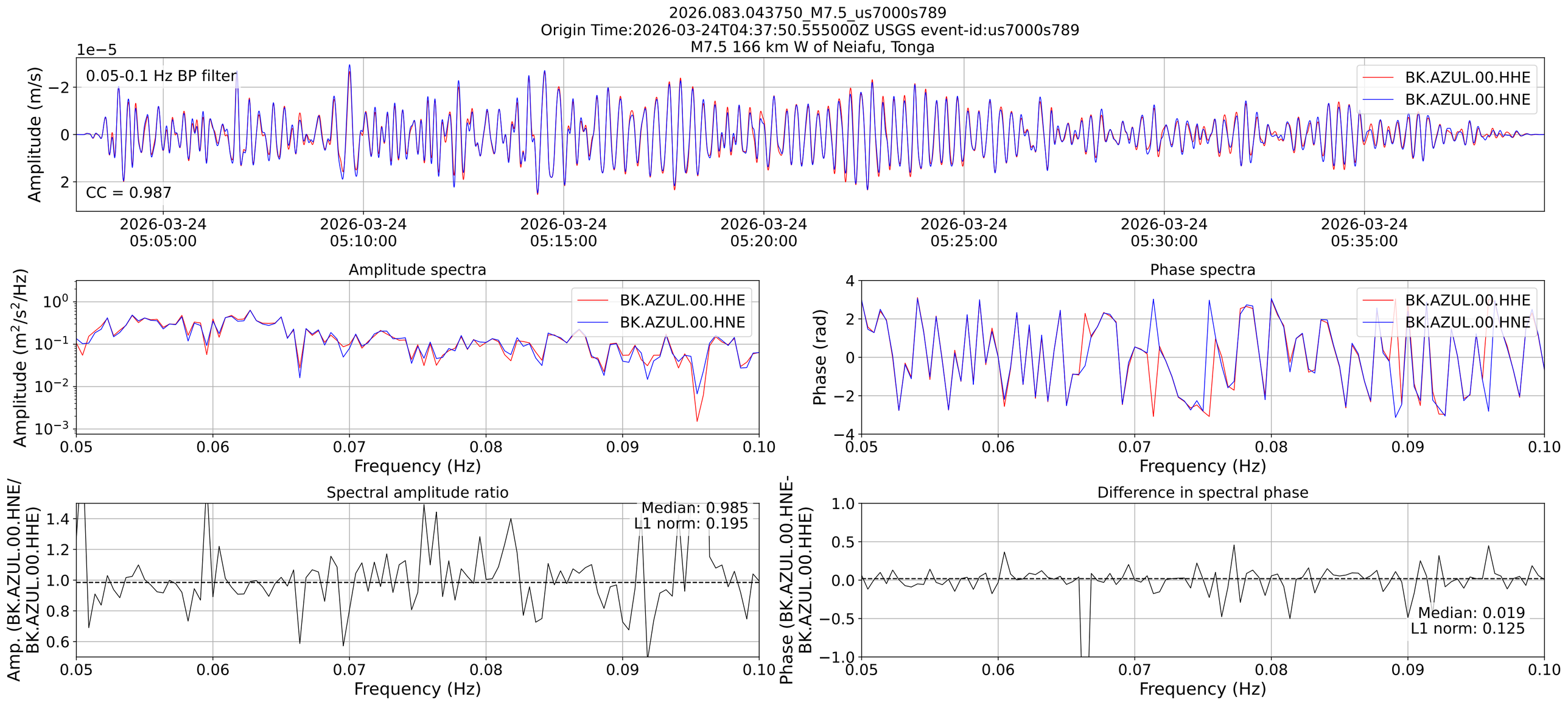

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
BK.AUSC.00.HHN
BK.AUSC.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNN/ BK.AUSC.00.HHN)
Median: 0.992
L1 norm: 0.109
Difference in spectral phase
Phase (BK.AUSC.00.HNN- BK.AUSC.00.HHN)
Median: -0.001
L1 norm: 0.168

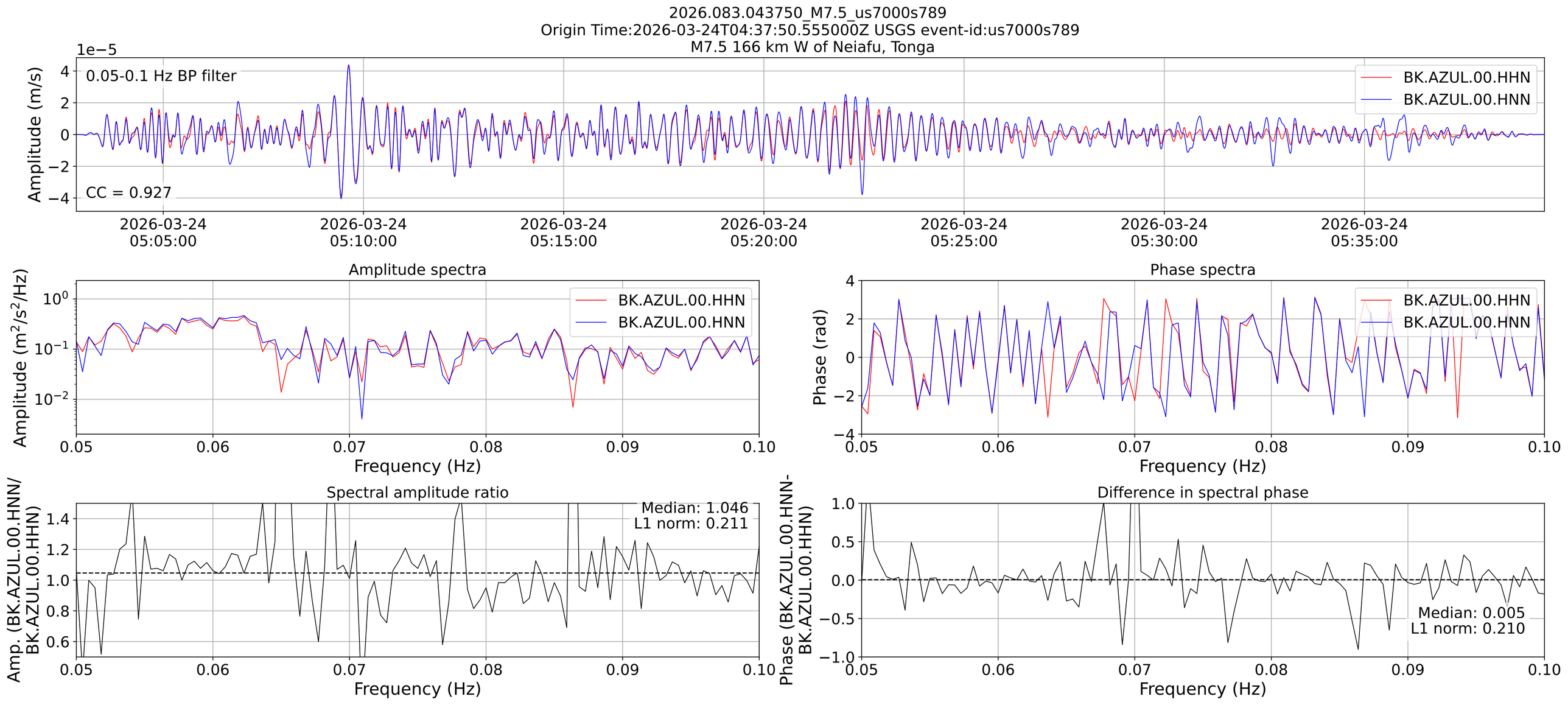

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.412
BK.AUSC.00.HHZ
BK.AUSC.00.HNZ
Amplitude (m/s)
−0.0004
−0.0002
0.0000
0.0002
0.0004
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AUSC.00.HNZ/ BK.AUSC.00.HHZ)
Median: 2.289
L1 norm: 2.028
Difference in spectral phase
Phase (BK.AUSC.00.HNZ- BK.AUSC.00.HHZ)
Median: 0.062
L1 norm: 1.330

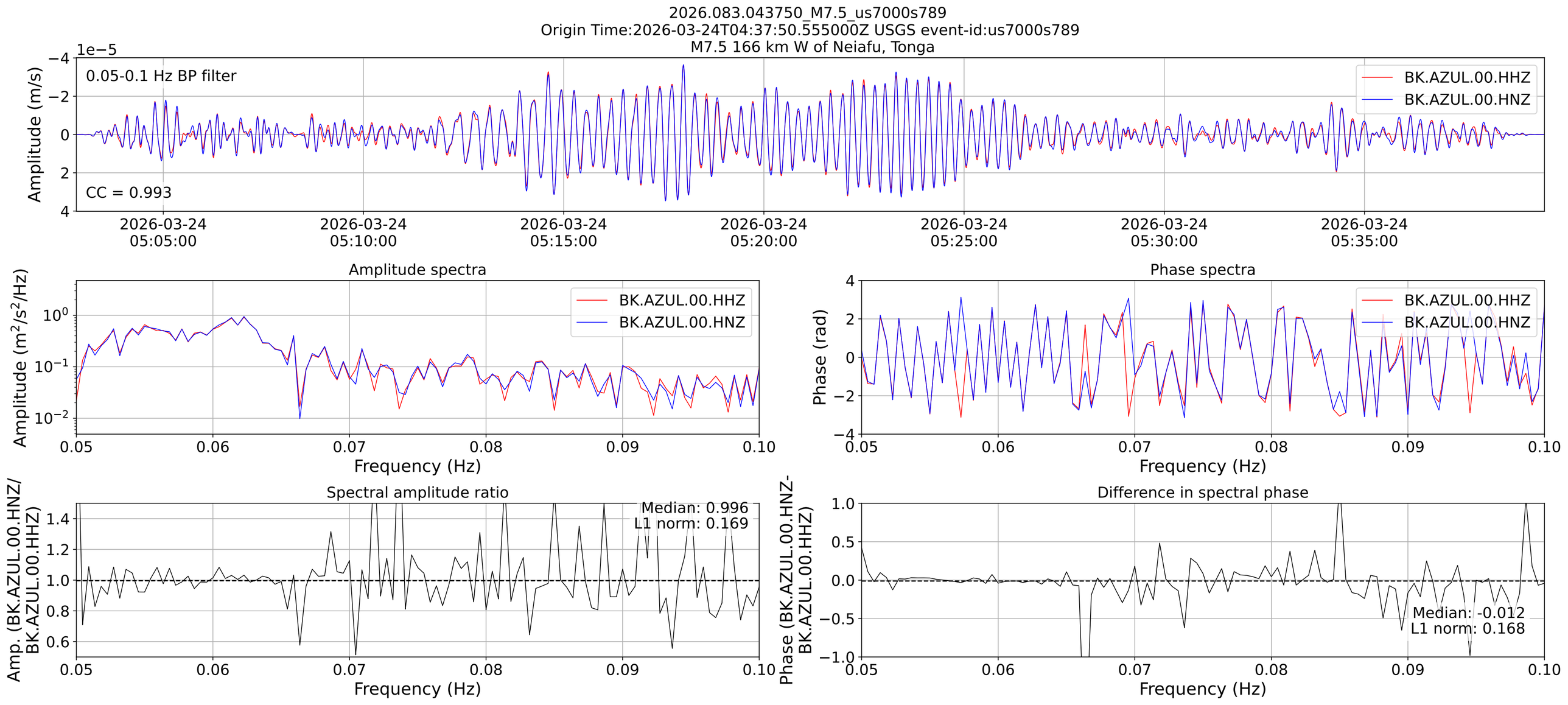

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
BK.AVSP.00.HHE
BK.AVSP.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 0.997
L1 norm: 0.063
Amp. (BK.AVSP.00.HNE/ BK.AVSP.00.HHE)
Difference in spectral phase
Phase (BK.AVSP.00.HNE- BK.AVSP.00.HHE)
Median: -0.012
L1 norm: 0.077

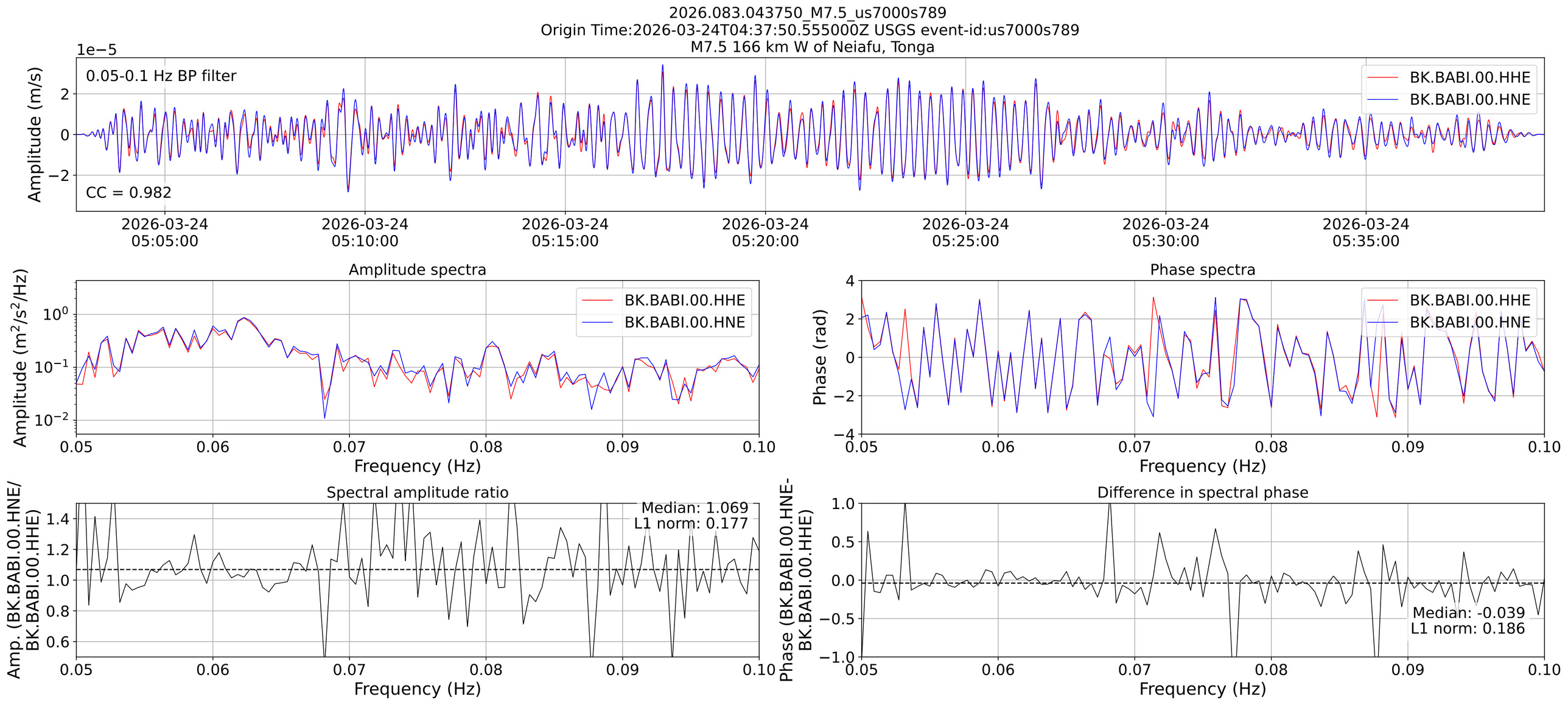

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.AVSP.00.HHN
BK.AVSP.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AVSP.00.HNN/ BK.AVSP.00.HHN)
Median: 0.988
L1 norm: 0.086
Difference in spectral phase
Phase (BK.AVSP.00.HNN- BK.AVSP.00.HHN)
Median: 0.000
L1 norm: 0.072

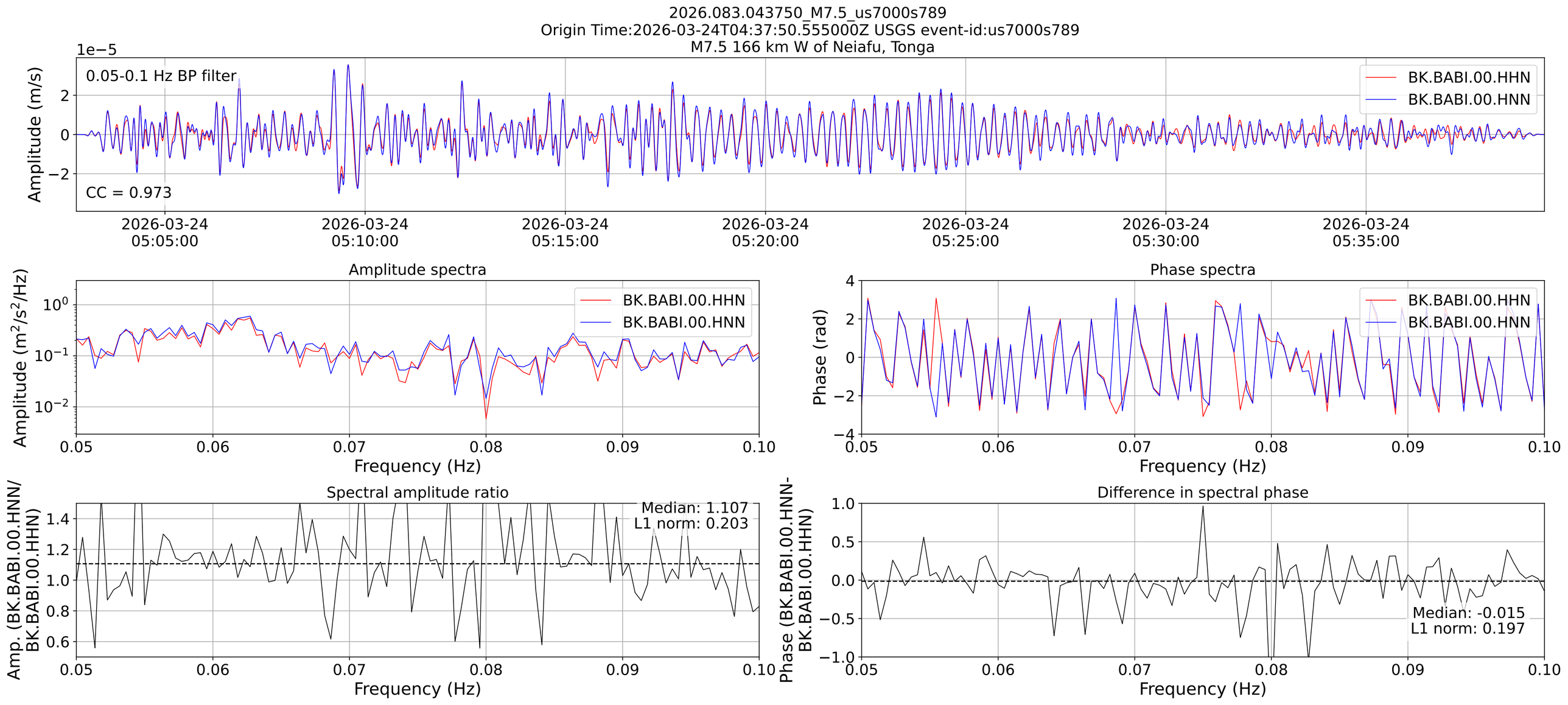

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.AVSP.00.HHZ
BK.AVSP.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AVSP.00.HNZ/ BK.AVSP.00.HHZ)
Median: 0.999
L1 norm: 0.074
Difference in spectral phase
Phase (BK.AVSP.00.HNZ- BK.AVSP.00.HHZ)
Median: 0.020
L1 norm: 0.104

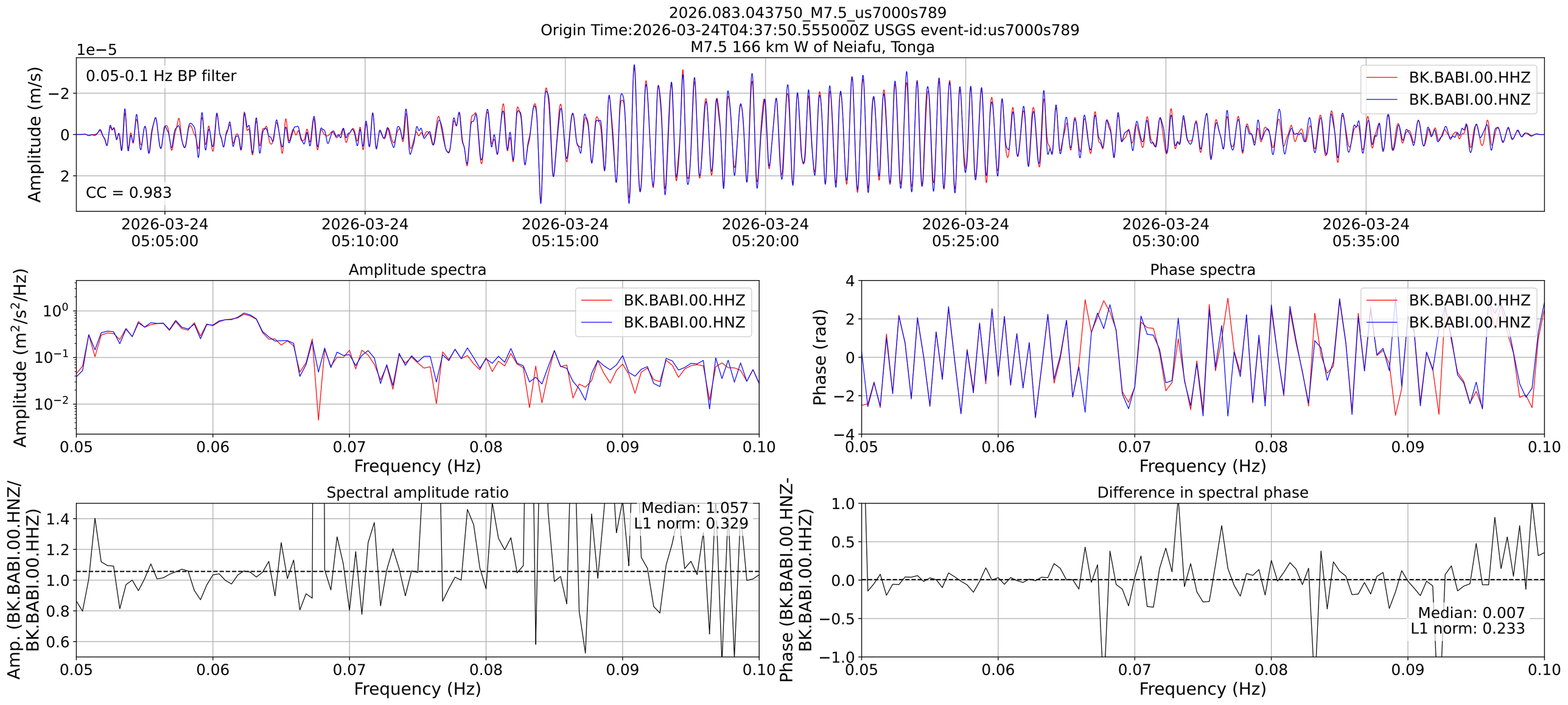

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.AZUL.00.HHE
BK.AZUL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNE/ BK.AZUL.00.HHE)
Median: 0.985
L1 norm: 0.195
Difference in spectral phase
Phase (BK.AZUL.00.HNE- BK.AZUL.00.HHE)
Median: 0.019
L1 norm: 0.125

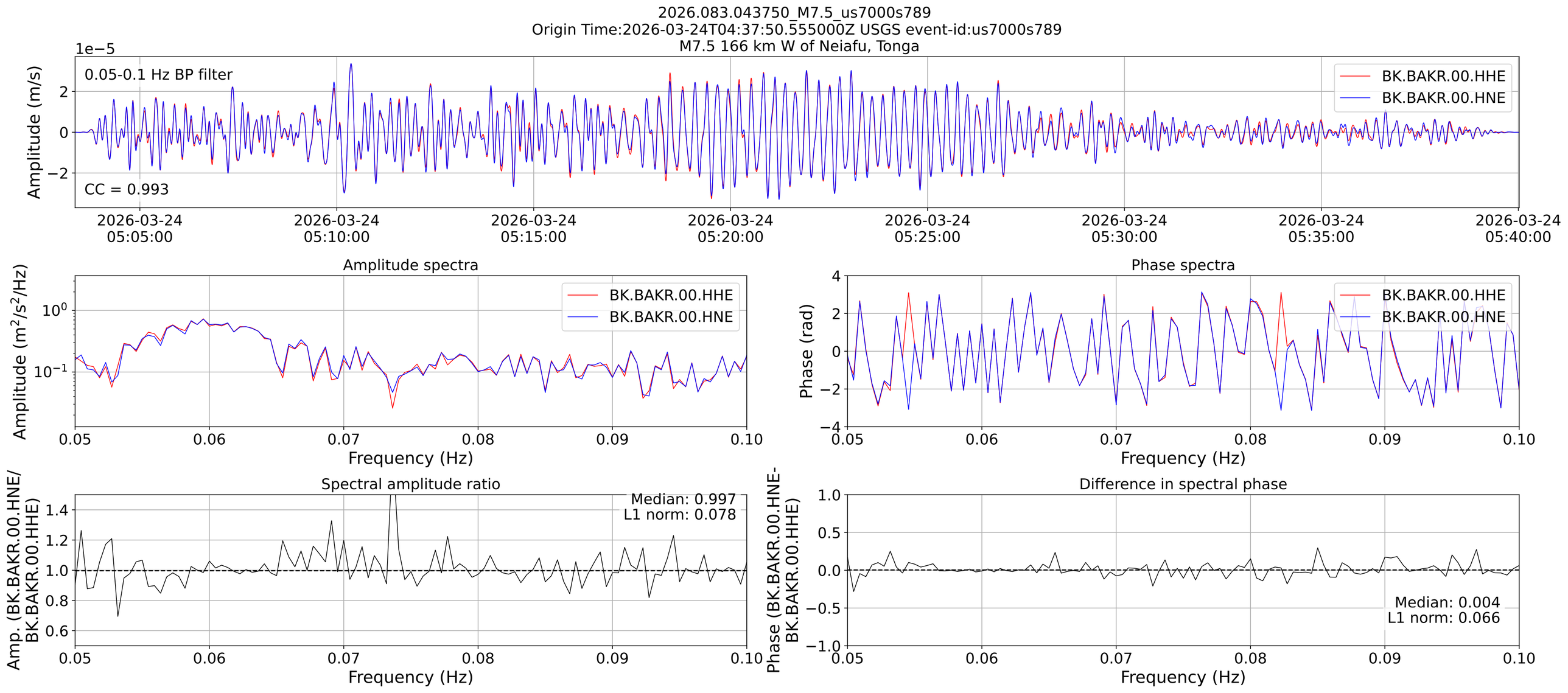

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.927
Amplitude (m/s)
BK.AZUL.00.HHN
BK.AZUL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNN/ BK.AZUL.00.HHN)
Median: 1.046
L1 norm: 0.211
Difference in spectral phase
Phase (BK.AZUL.00.HNN- BK.AZUL.00.HHN)
Median: 0.005
L1 norm: 0.210

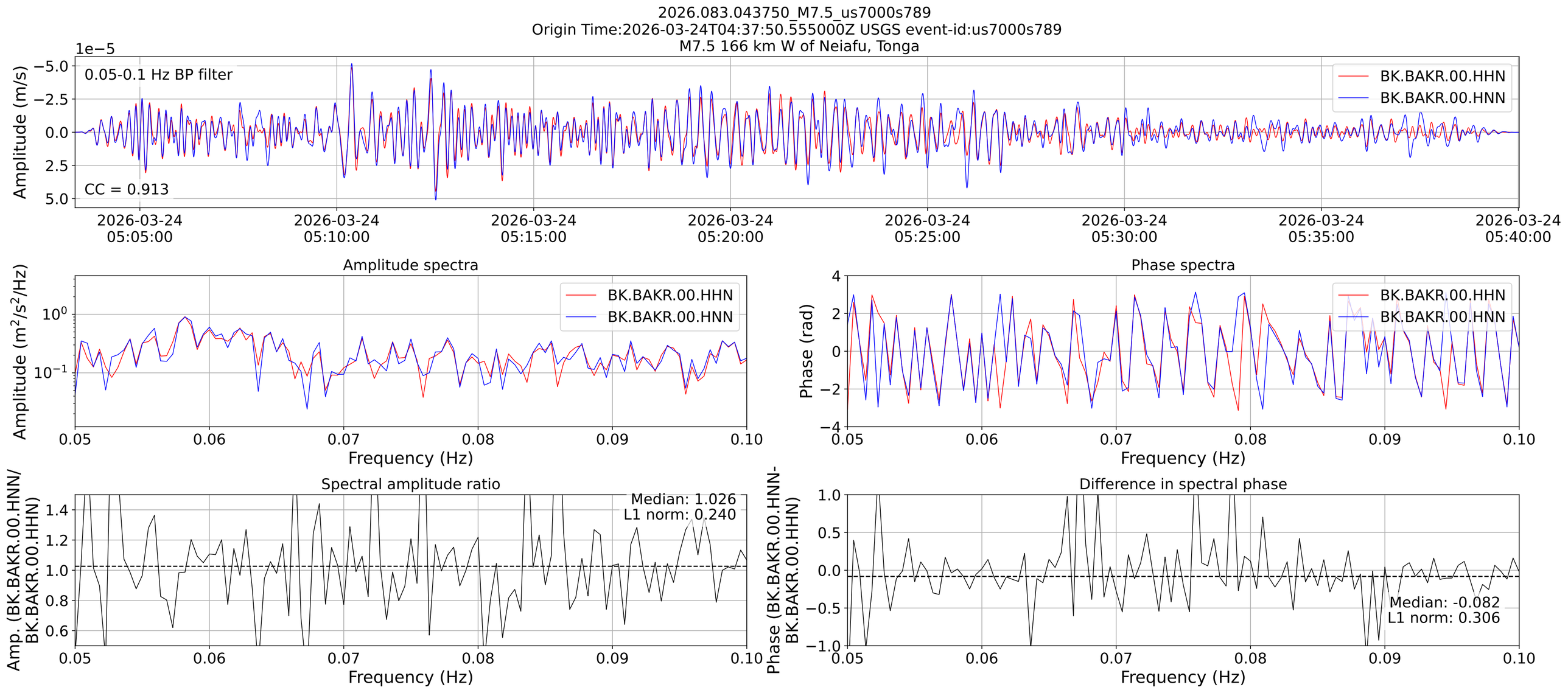

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.AZUL.00.HHZ
BK.AZUL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.AZUL.00.HNZ/ BK.AZUL.00.HHZ)
Median: 0.996
L1 norm: 0.169
Difference in spectral phase
Phase (BK.AZUL.00.HNZ-BK.AZUL.00.HHZ)
Median: -0.012
L1 norm: 0.168

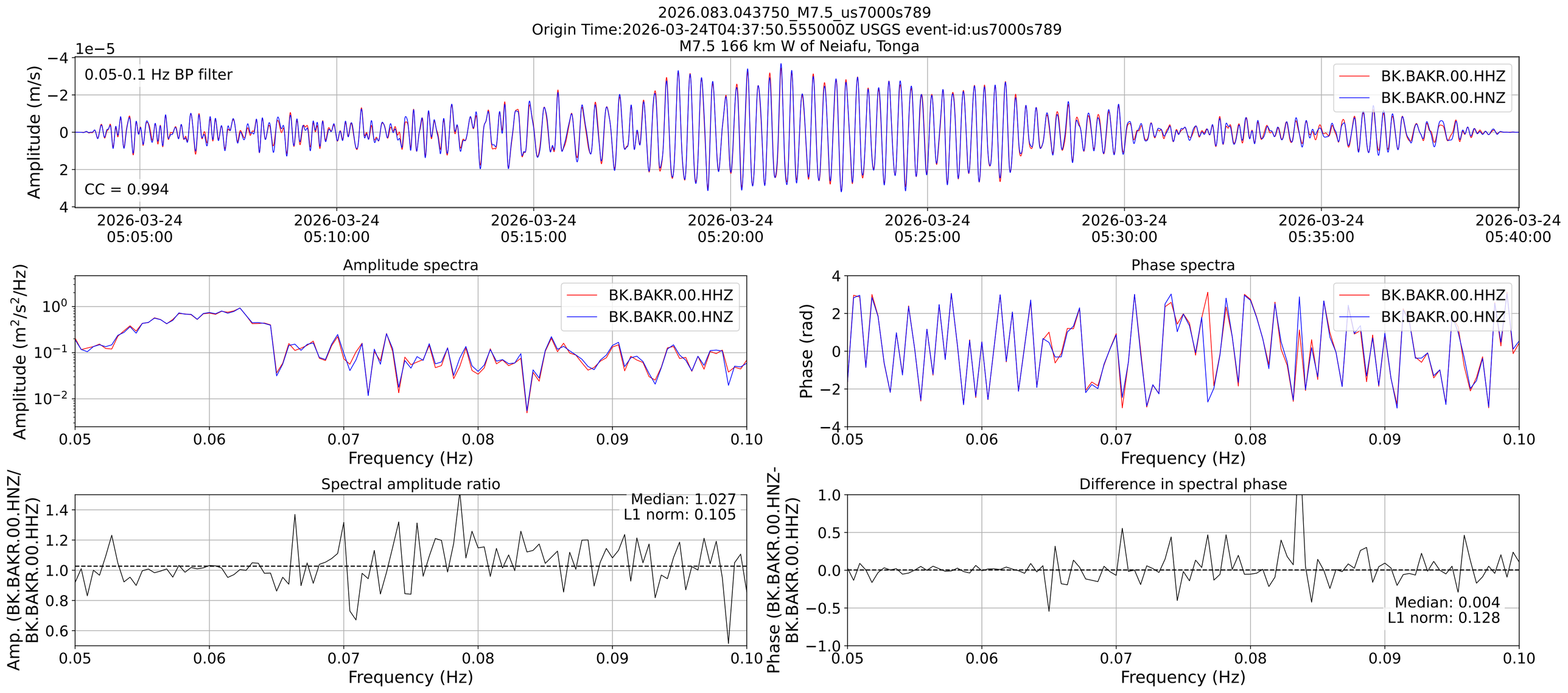

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.BABI.00.HHE
BK.BABI.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNE/ BK.BABI.00.HHE)
Median: 1.069
L1 norm: 0.177
Difference in spectral phase
Phase (BK.BABI.00.HNE- BK.BABI.00.HHE)
Median: -0.039
L1 norm: 0.186

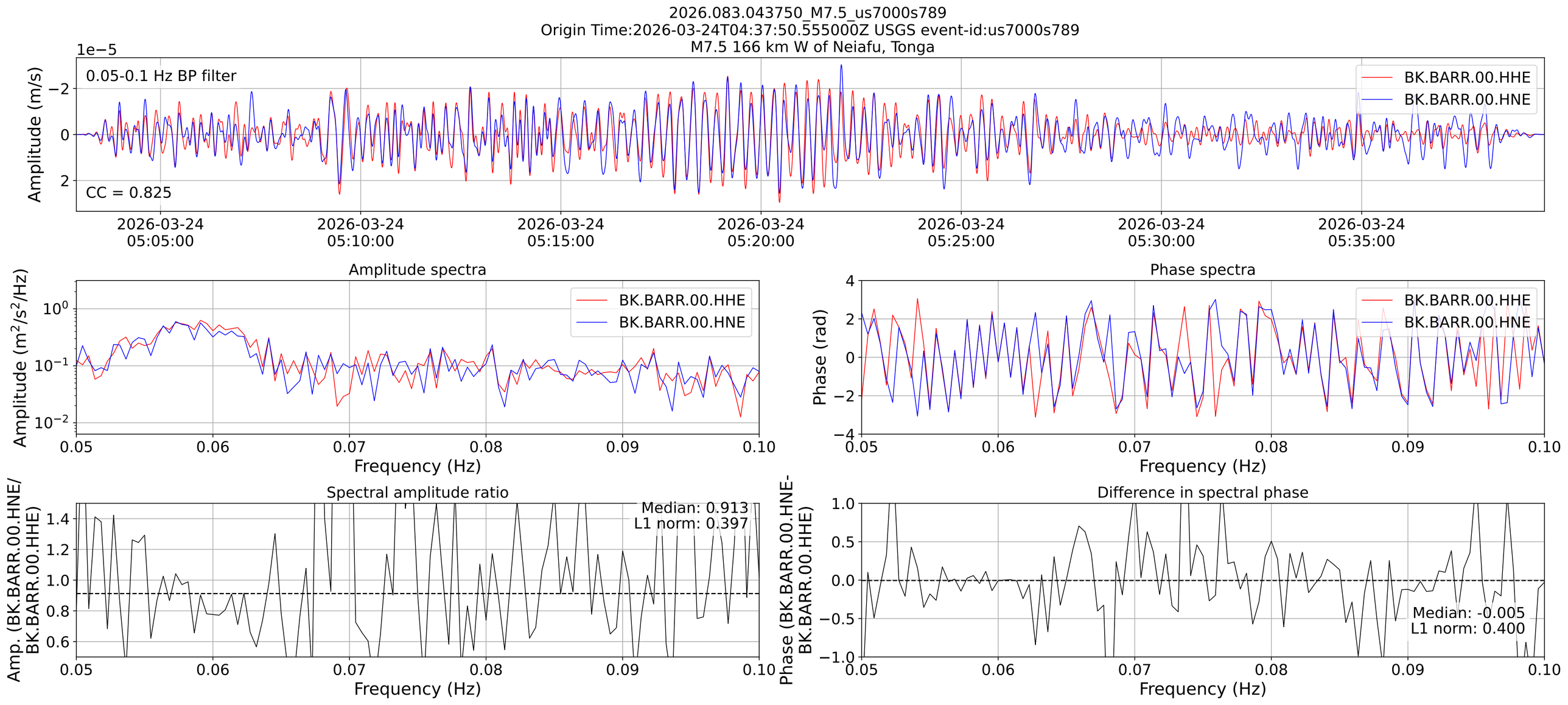

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.973
Amplitude (m/s)
BK.BABI.00.HHN
BK.BABI.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNN/ BK.BABI.00.HHN)
Median: 1.107
L1 norm: 0.203
Difference in spectral phase
Phase (BK.BABI.00.HNN- BK.BABI.00.HHN)
Median: -0.015
L1 norm: 0.197

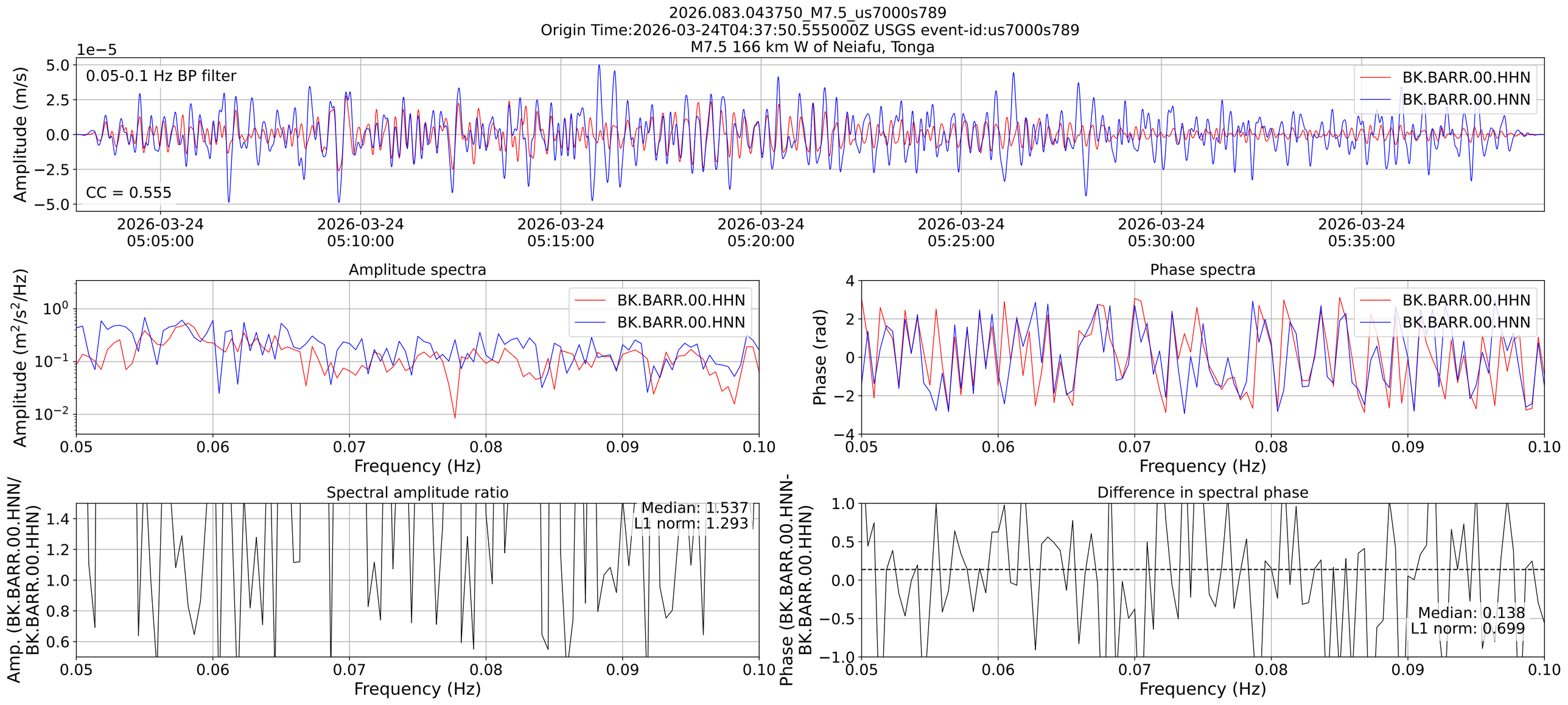

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.BABI.00.HHZ
BK.BABI.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BABI.00.HNZ/ BK.BABI.00.HHZ)
Median: 1.057
L1 norm: 0.329
Difference in spectral phase
Phase (BK.BABI.00.HNZ- BK.BABI.00.HHZ)
Median: 0.007
L1 norm: 0.233

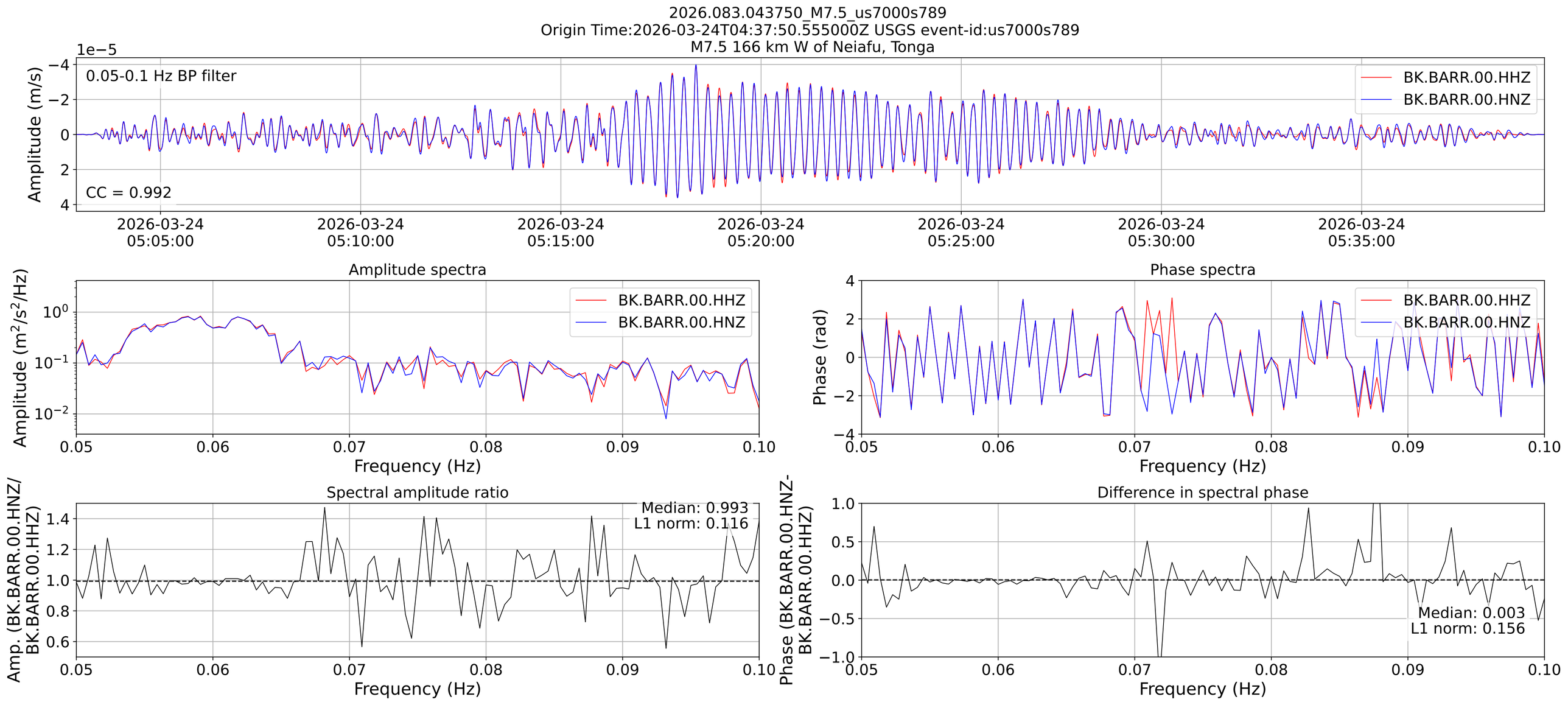

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.BAKR.00.HHE
BK.BAKR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNE/ BK.BAKR.00.HHE)
Median: 0.997
L1 norm: 0.078
Difference in spectral phase
Phase (BK.BAKR.00.HNE- BK.BAKR.00.HHE)
Median: 0.004
L1 norm: 0.066

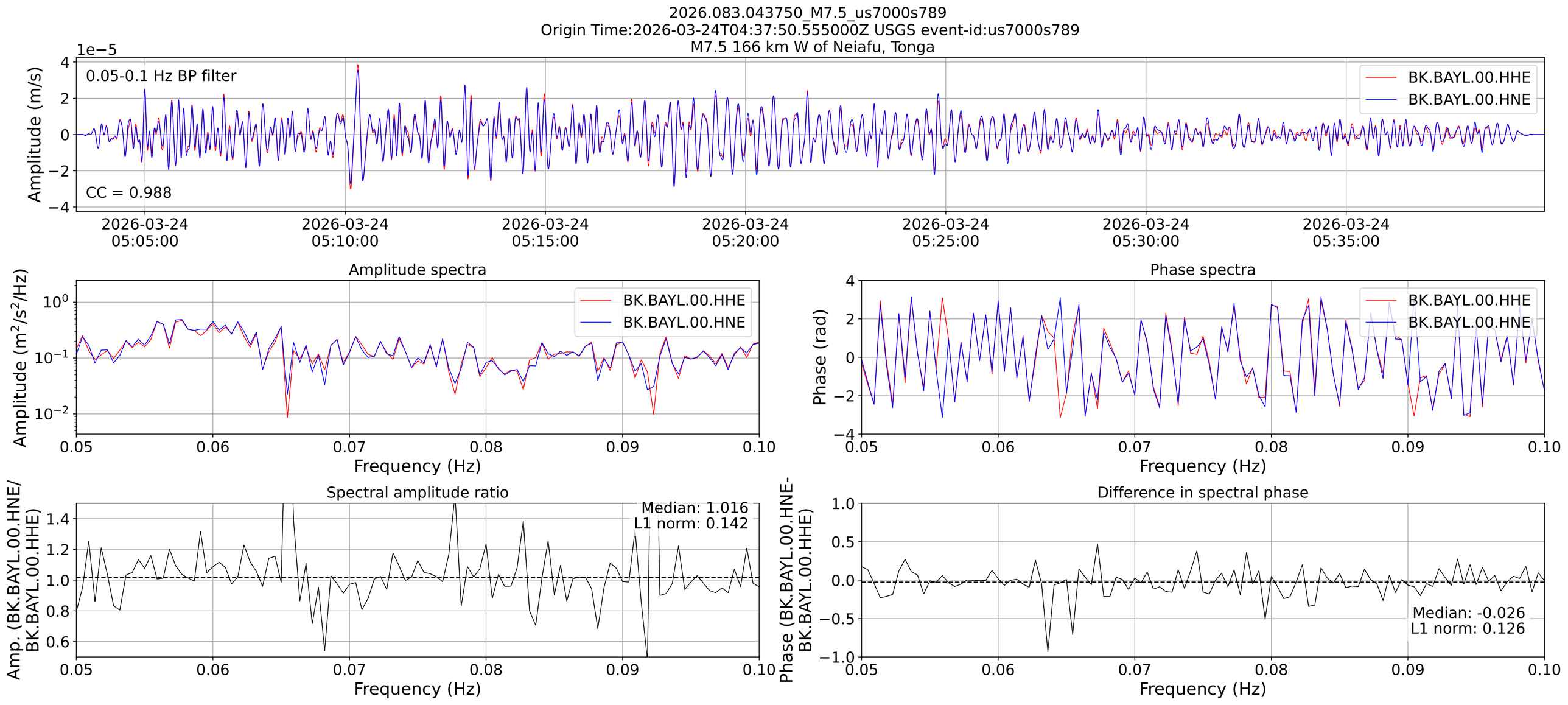

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.913
BK.BAKR.00.HHN
BK.BAKR.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNN/ BK.BAKR.00.HHN)
Median: 1.026
L1 norm: 0.240
Difference in spectral phase
Phase (BK.BAKR.00.HNN-BK.BAKR.00.HHN)
Median: -0.082
L1 norm: 0.306

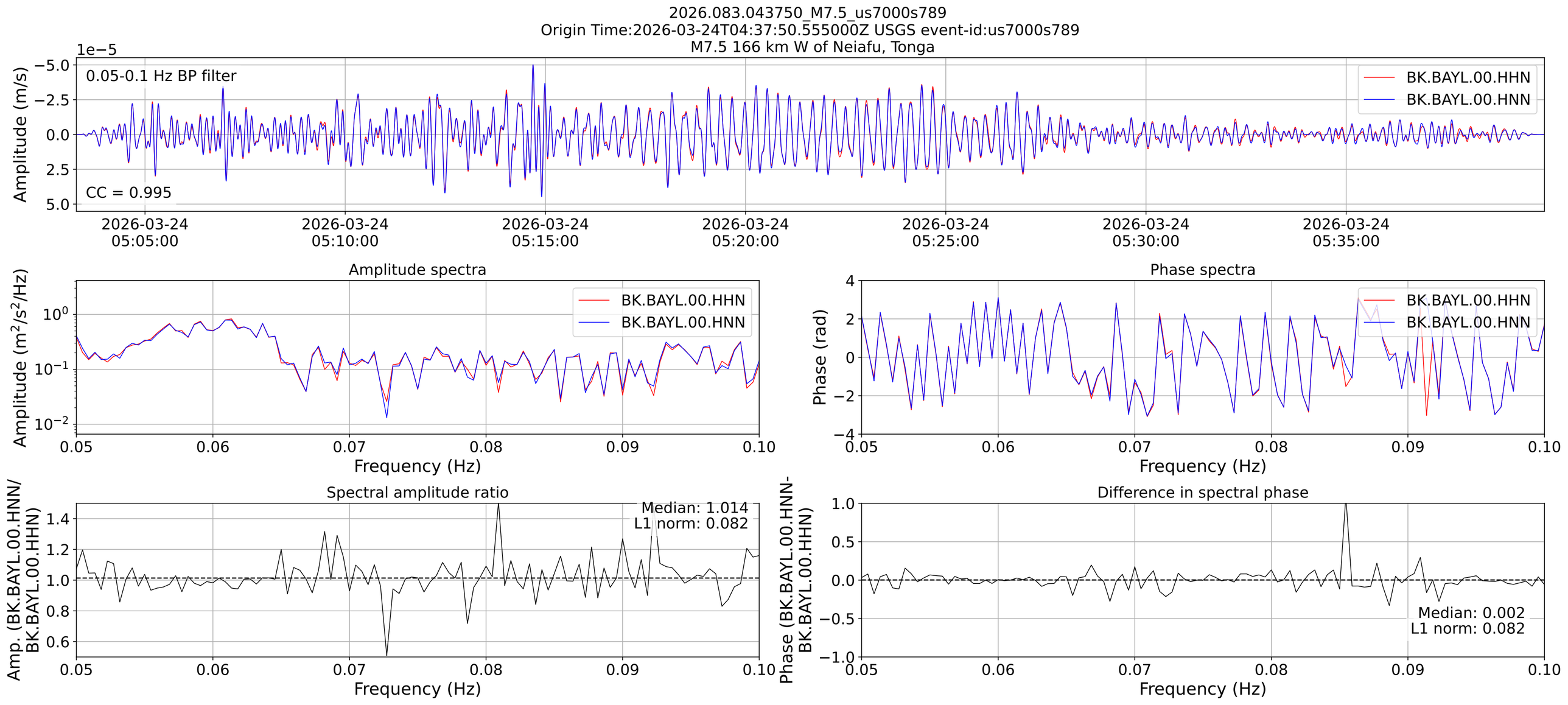

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
BK.BAKR.00.HHZ
BK.BAKR.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAKR.00.HNZ/ BK.BAKR.00.HHZ)
Median: 1.027
L1 norm: 0.105
Difference in spectral phase
Phase (BK.BAKR.00.HNZ-BK.BAKR.00.HHZ)
Median: 0.004
L1 norm: 0.128

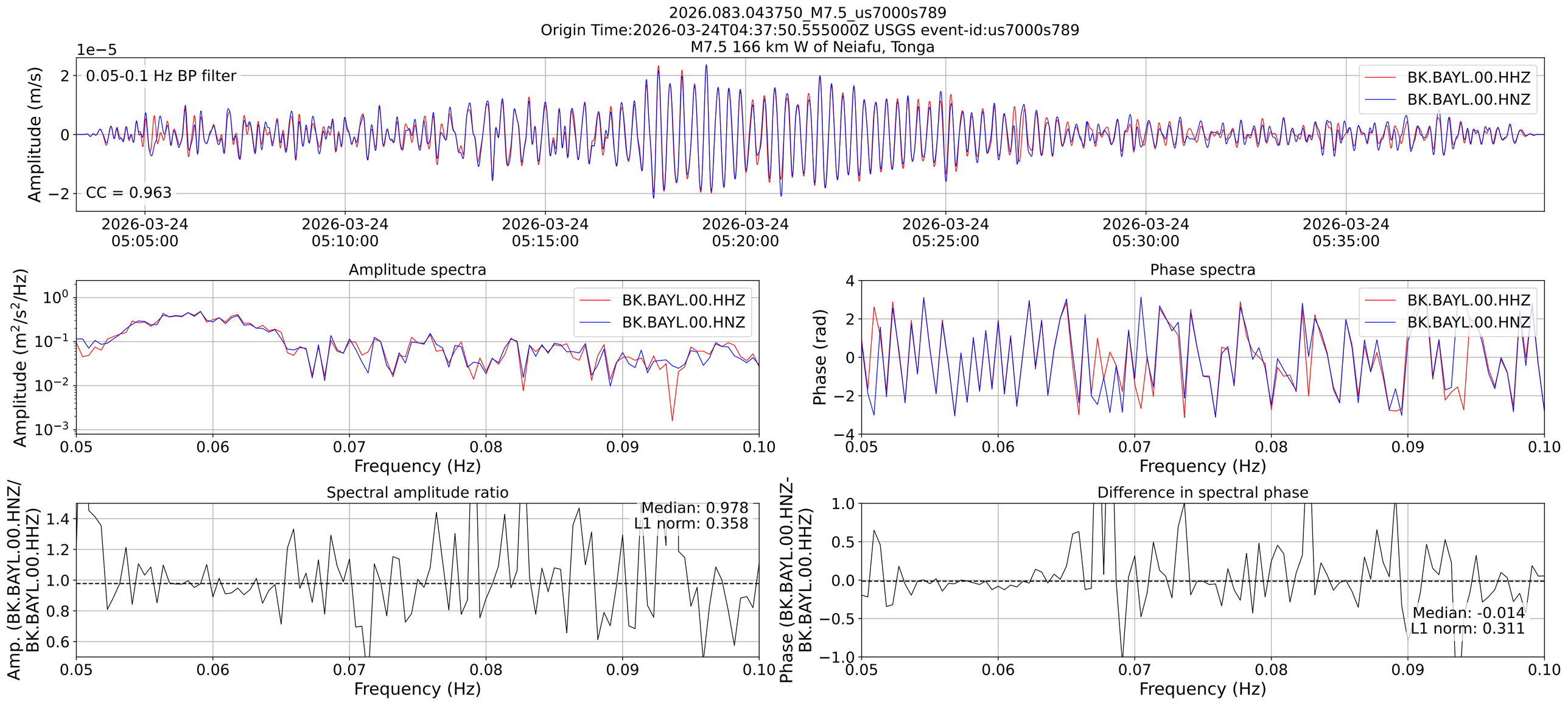

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.825
BK.BARR.00.HHE
BK.BARR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BARR.00.HNE/ BK.BARR.00.HHE)
Median: 0.913
L1 norm: 0.397
Difference in spectral phase
Phase (BK.BARR.00.HNE- BK.BARR.00.HHE)
Median: -0.005
L1 norm: 0.400

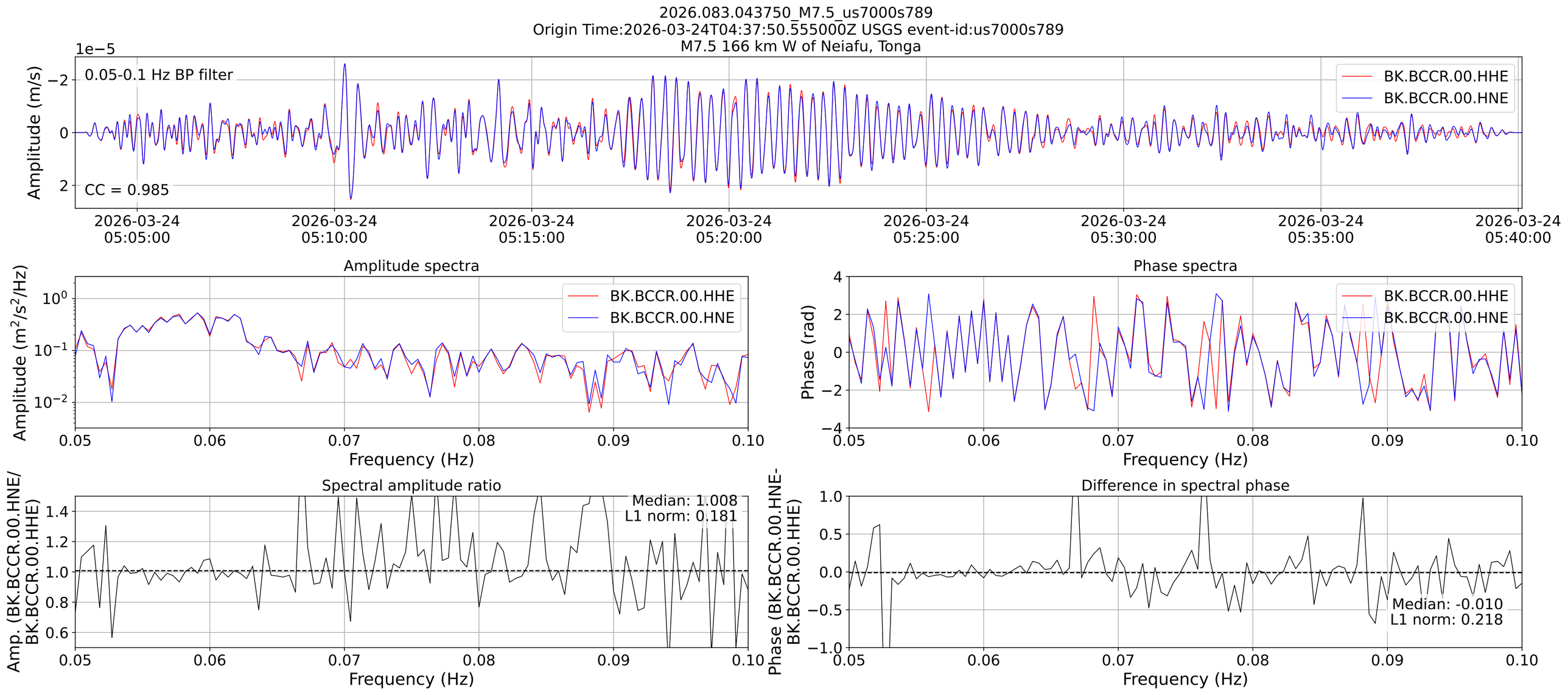

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.555
BK.BARR.00.HHN
BK.BARR.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BARR.00.HNN/ BK.BARR.00.HHN)
Median: 1.537
L1 norm: 1.293
Difference in spectral phase
Phase (BK.BARR.00.HNN-BK.BARR.00.HHN)
Median: 0.138
L1 norm: 0.699

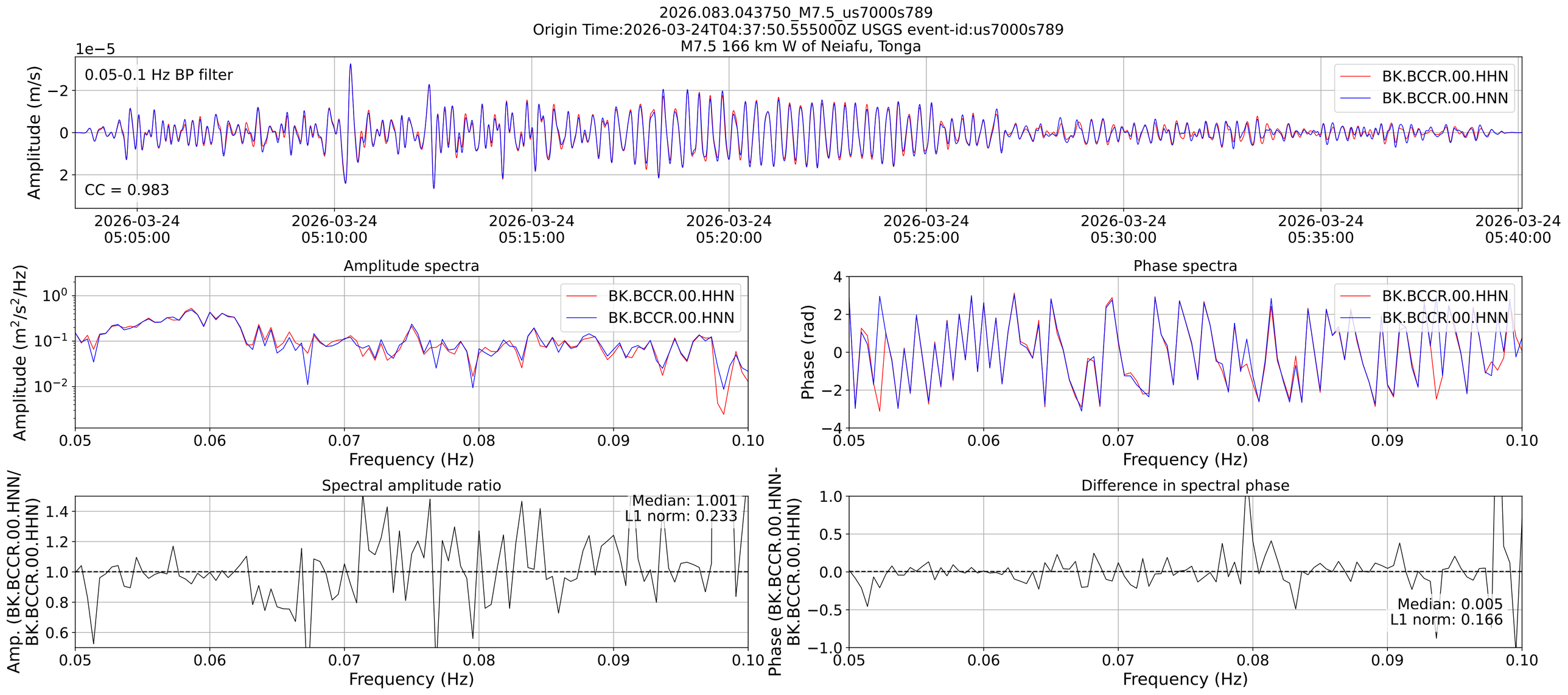

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.BARR.00.HHZ
BK.BARR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BARR.00.HNZ/ BK.BARR.00.HHZ)
Median: 0.993
L1 norm: 0.116
Difference in spectral phase
Phase (BK.BARR.00.HNZ- BK.BARR.00.HHZ)
Median: 0.003
L1 norm: 0.156

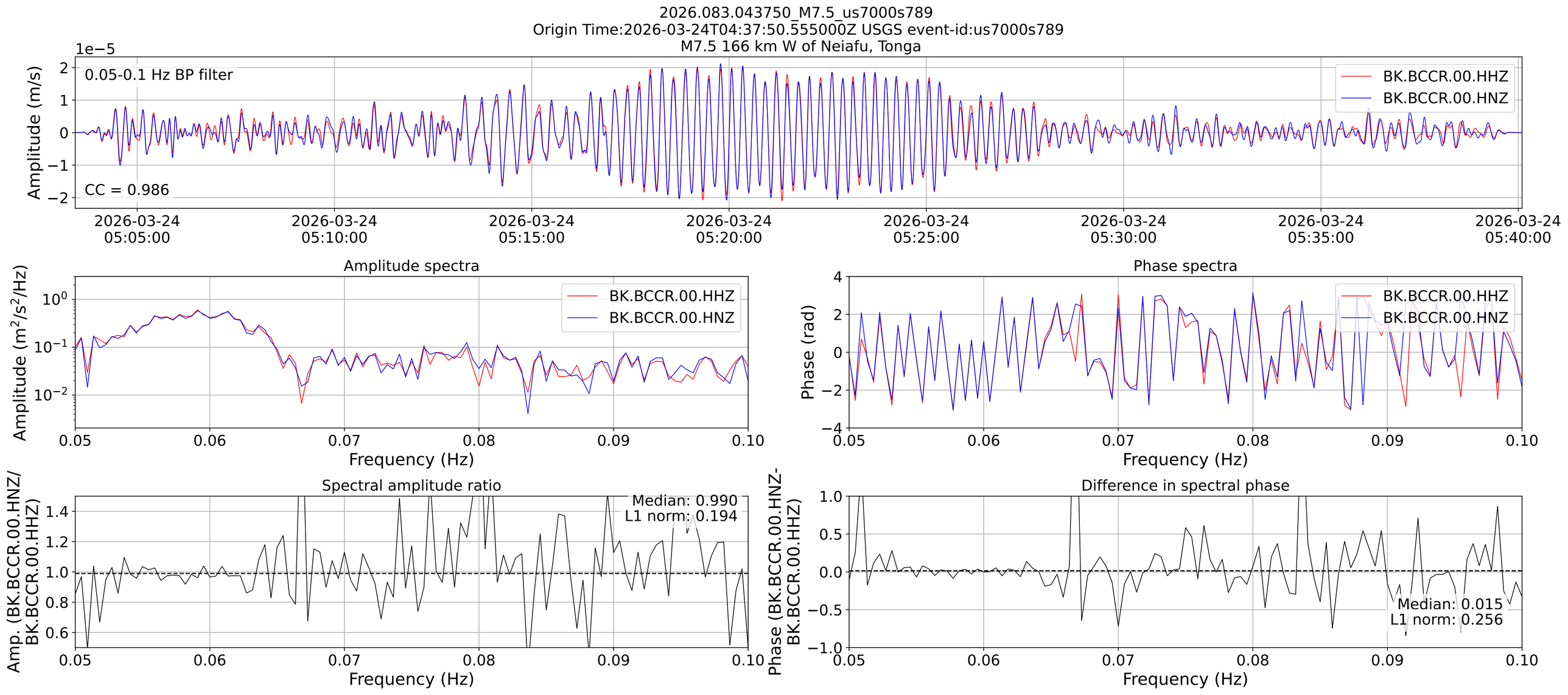

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.BAYL.00.HHE
BK.BAYL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNE/ BK.BAYL.00.HHE)
Median: 1.016
L1 norm: 0.142
Difference in spectral phase
Phase (BK.BAYL.00.HNE- BK.BAYL.00.HHE)
Median: -0.026
L1 norm: 0.126

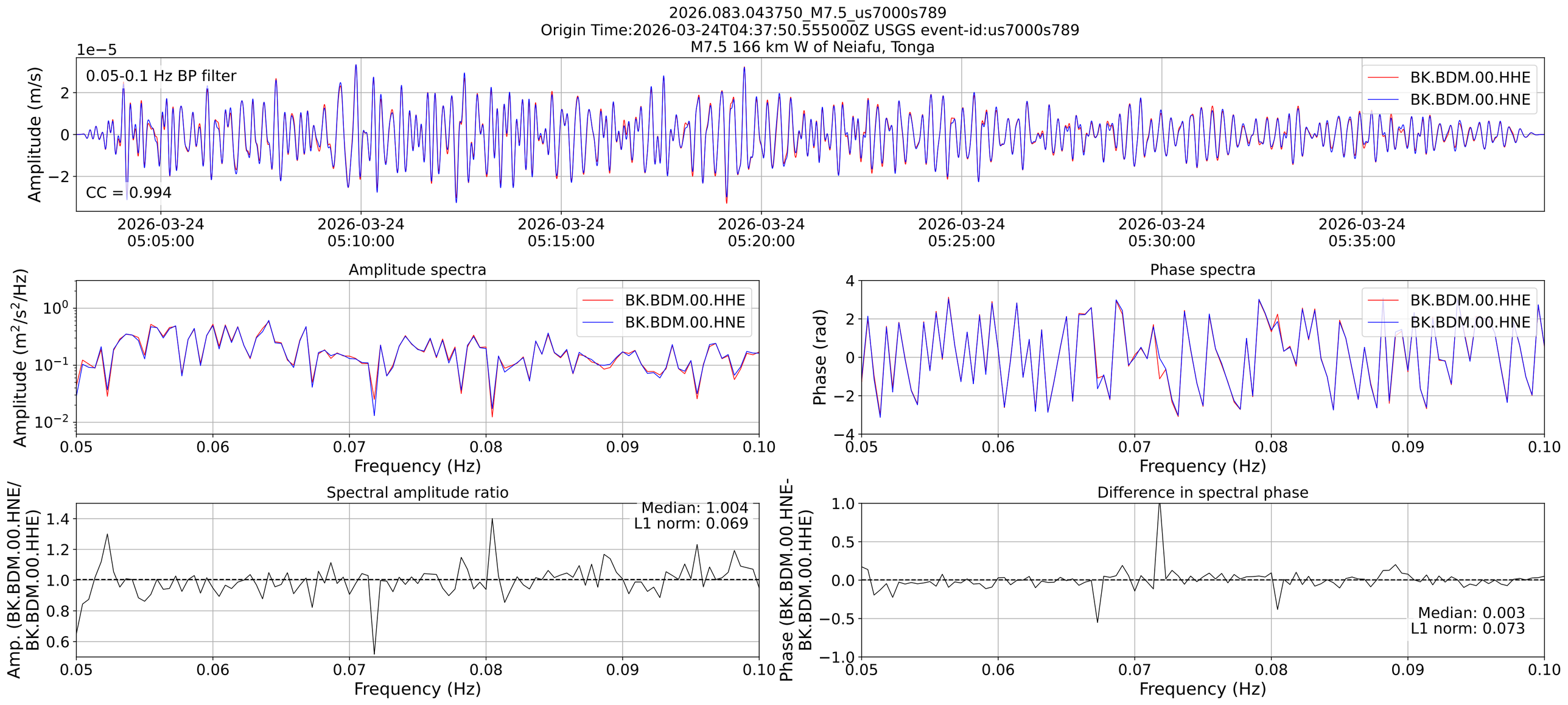

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.BAYL.00.HHN
BK.BAYL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNN/ BK.BAYL.00.HHN)
Median: 1.014
L1 norm: 0.082
Difference in spectral phase
Phase (BK.BAYL.00.HNN- BK.BAYL.00.HHN)
Median: 0.002
L1 norm: 0.082

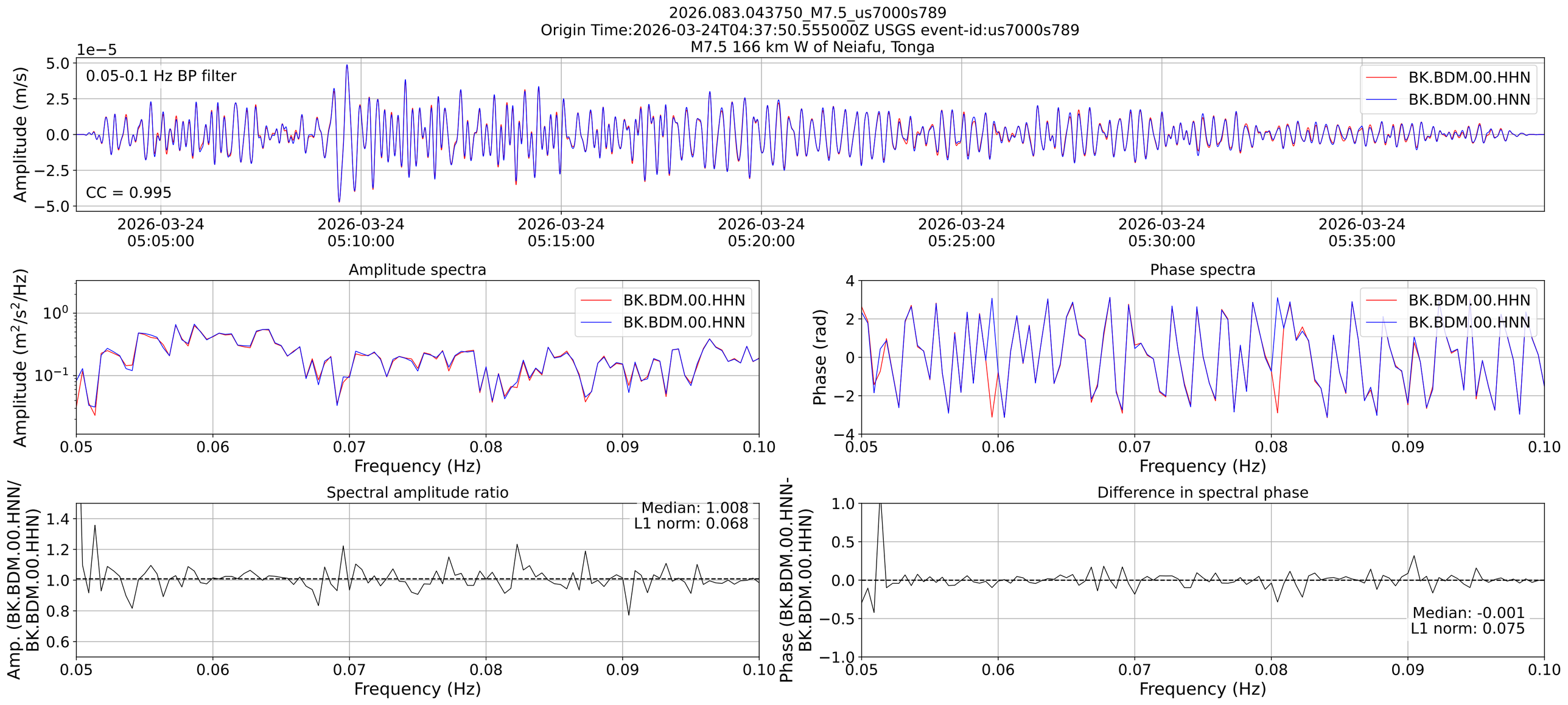

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.963
Amplitude (m/s)
BK.BAYL.00.HHZ
BK.BAYL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BAYL.00.HNZ/ BK.BAYL.00.HHZ)
Median: 0.978
L1 norm: 0.358
Difference in spectral phase
Phase (BK.BAYL.00.HNZ- BK.BAYL.00.HHZ)
Median: -0.014
L1 norm: 0.311

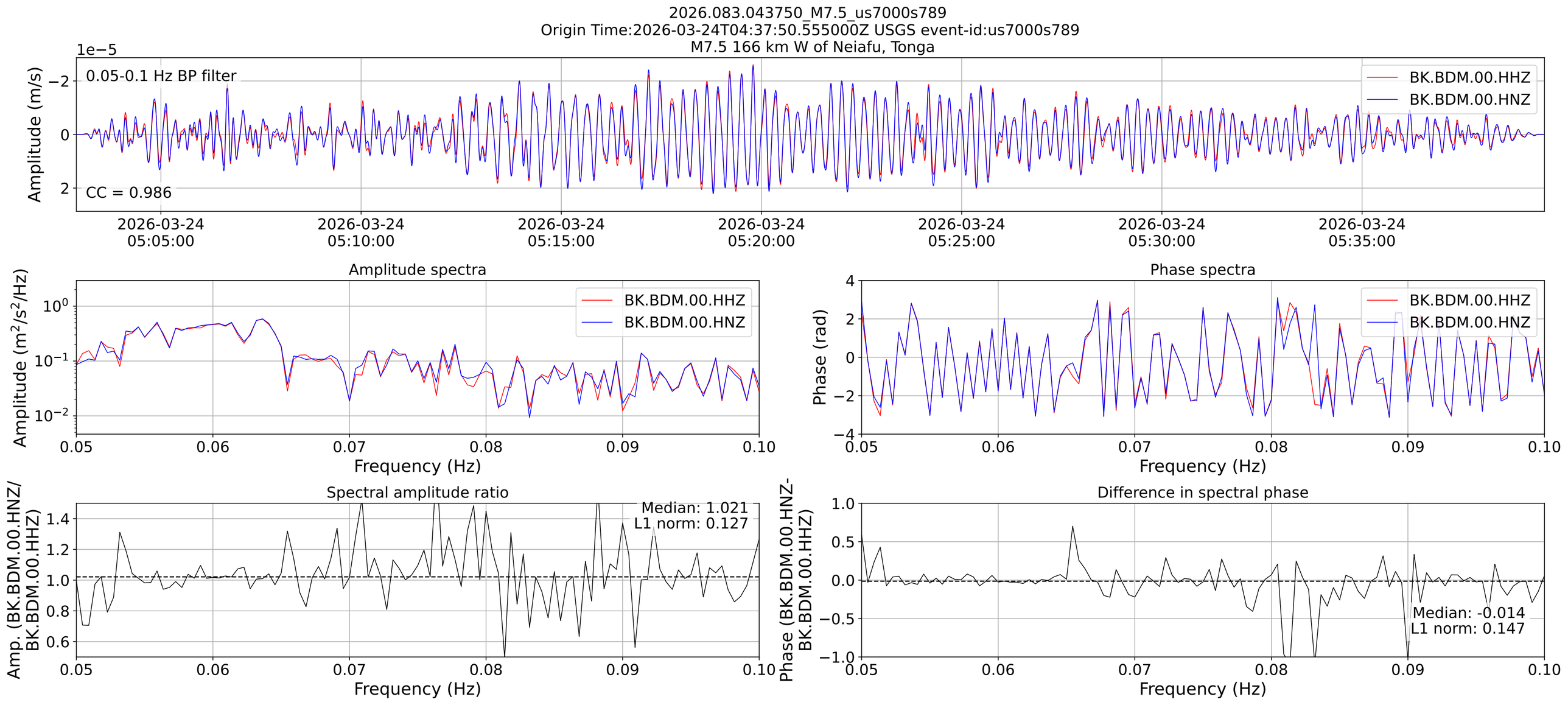

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.BCCR.00.HHE
BK.BCCR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNE/ BK.BCCR.00.HHE)
Median: 1.008
L1 norm: 0.181
Difference in spectral phase
Phase (BK.BCCR.00.HNE- BK.BCCR.00.HHE)
Median: -0.010
L1 norm: 0.218

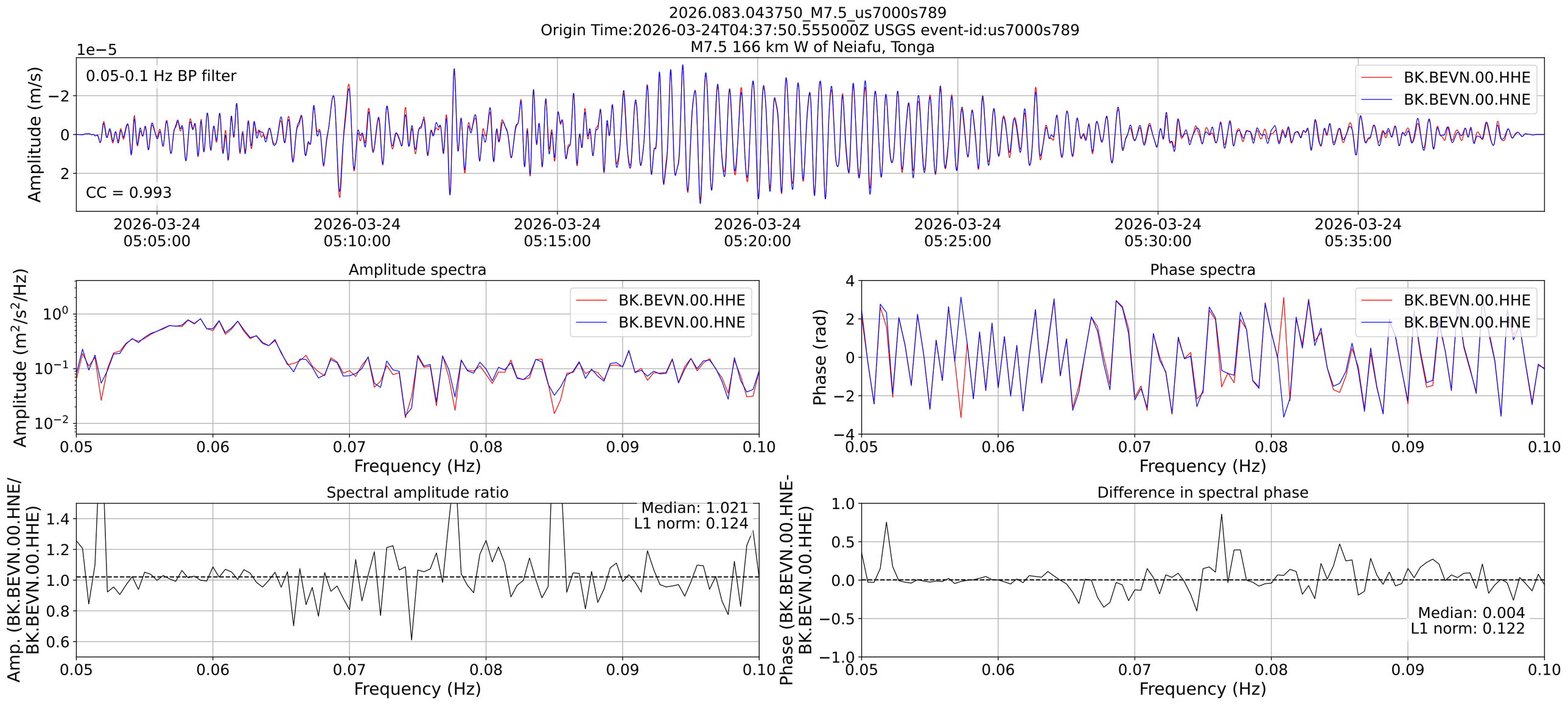

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.BCCR.00.HHN
BK.BCCR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNN/ BK.BCCR.00.HHN)
Median: 1.001
L1 norm: 0.233
Difference in spectral phase
Phase (BK.BCCR.00.HNN- BK.BCCR.00.HHN)
Median: 0.005
L1 norm: 0.166

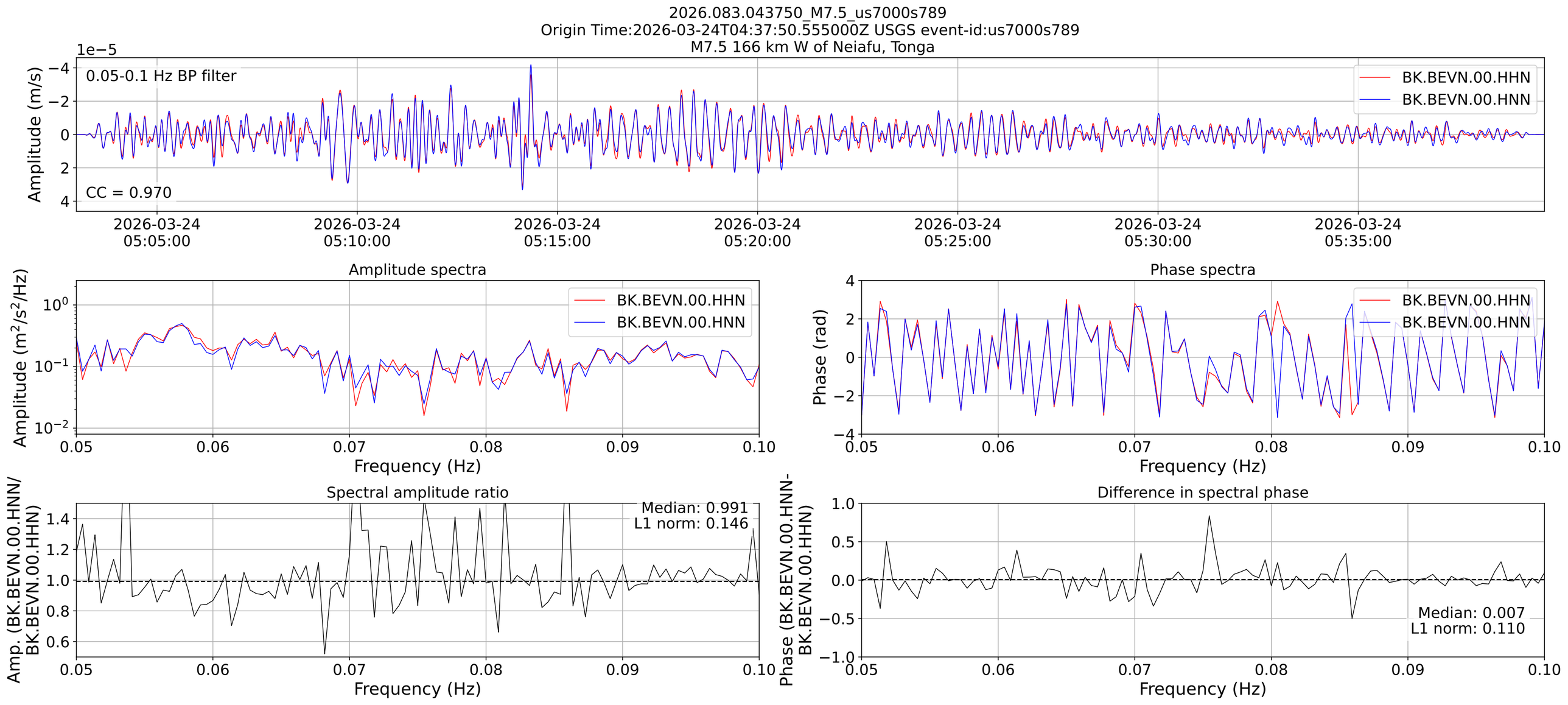

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.BCCR.00.HHZ
BK.BCCR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BCCR.00.HNZ/ BK.BCCR.00.HHZ)
Median: 0.990
L1 norm: 0.194
Difference in spectral phase
Phase (BK.BCCR.00.HNZ- BK.BCCR.00.HHZ)
Median: 0.015
L1 norm: 0.256

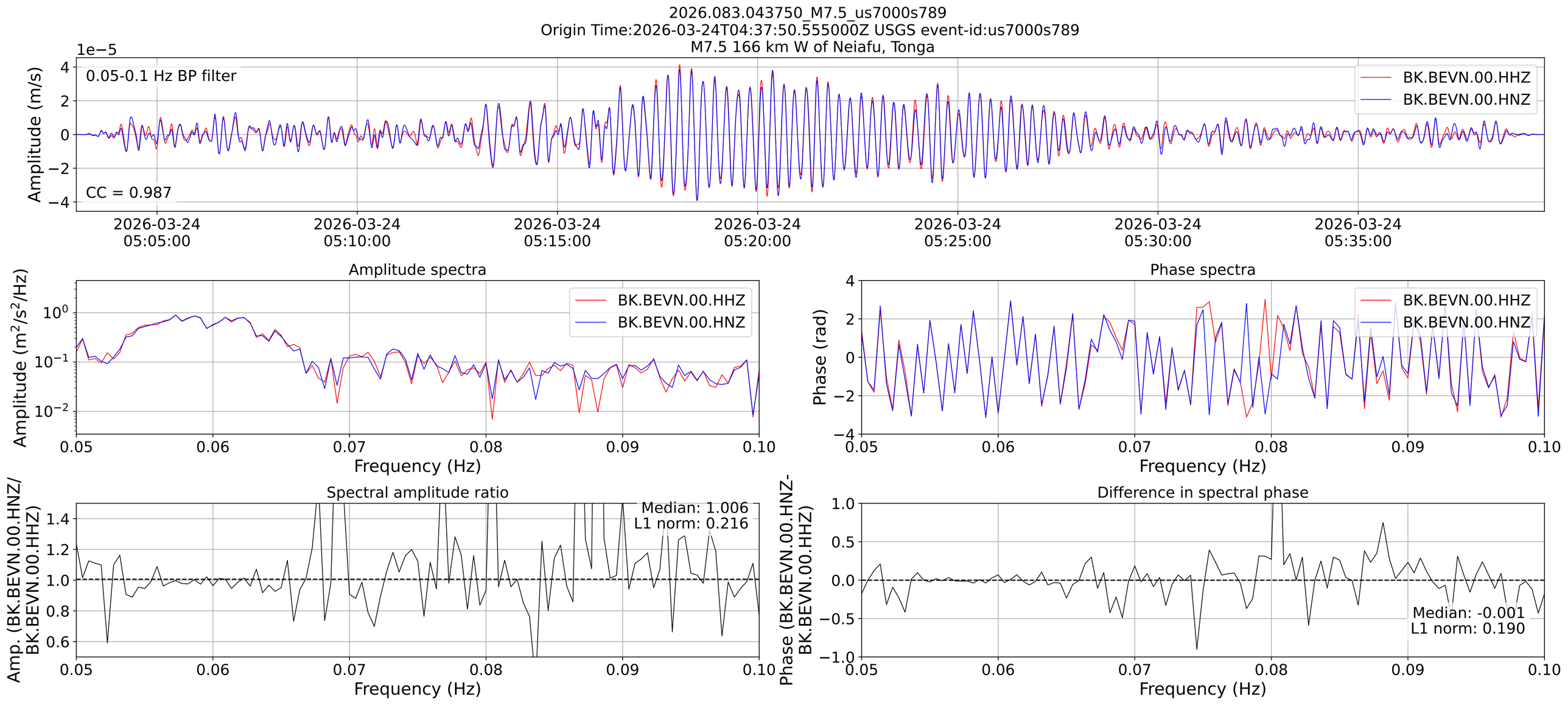

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.BDM.00.HHE
BK.BDM.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BDM.00.HNE/ BK.BDM.00.HHE)
Median: 1.004
L1 norm: 0.069
Difference in spectral phase
Phase (BK.BDM.00.HNE- BK.BDM.00.HHE)
Median: 0.003
L1 norm: 0.073

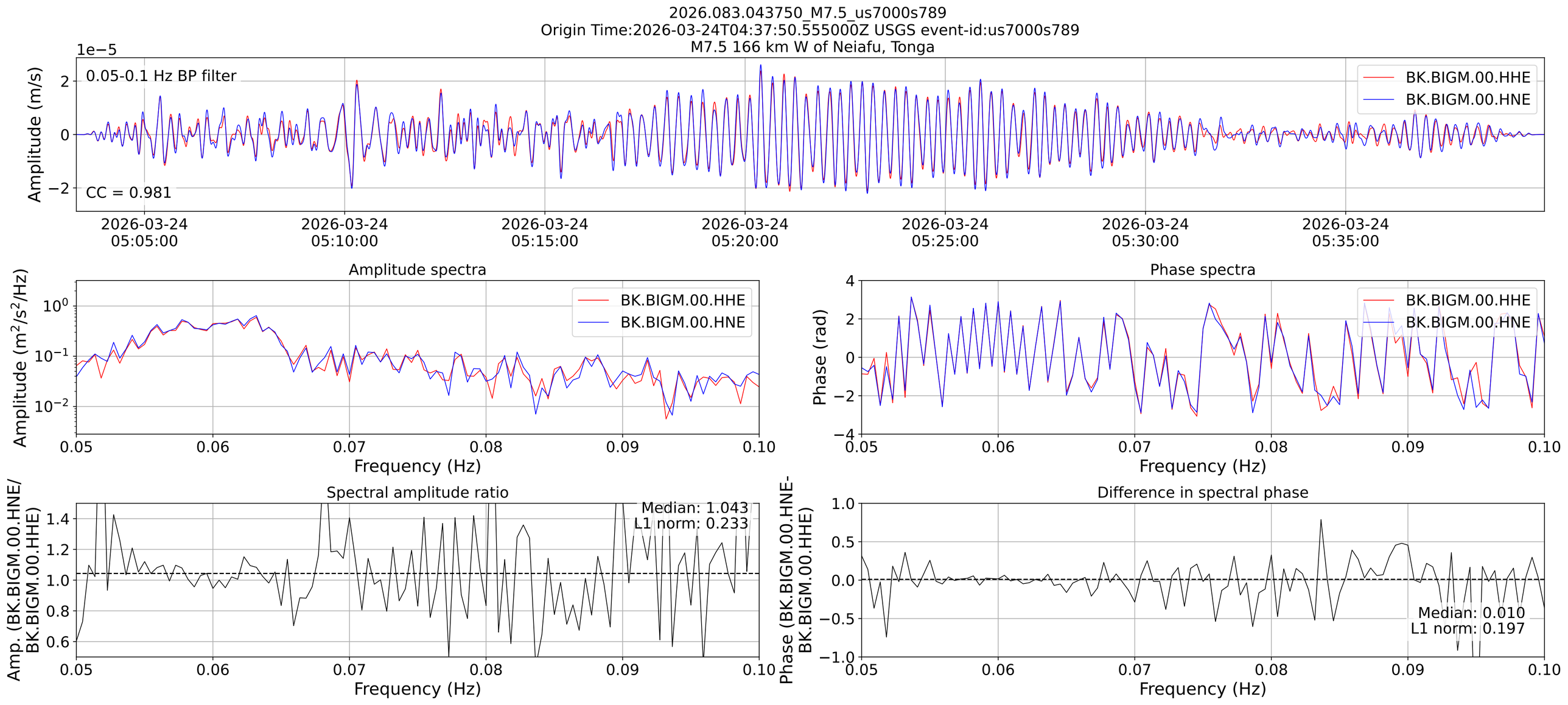

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.BDM.00.HHN
BK.BDM.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BDM.00.HNN/ BK.BDM.00.HHN)
Median: 1.008
L1 norm: 0.068
Difference in spectral phase
Phase (BK.BDM.00.HNN- BK.BDM.00.HHN)
Median: -0.001
L1 norm: 0.075

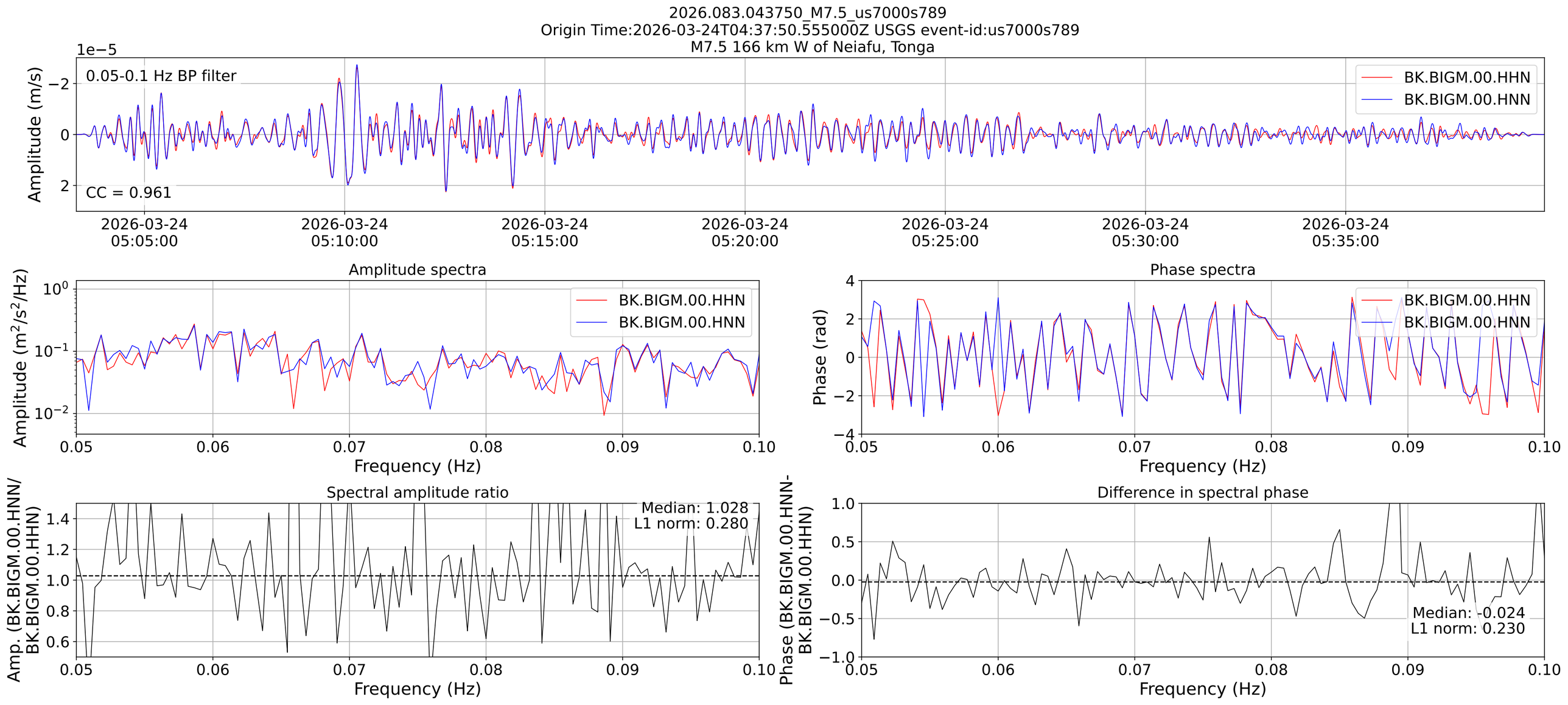

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.BDM.00.HHZ
BK.BDM.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BDM.00.HNZ/ BK.BDM.00.HHZ)
Median: 1.021
L1 norm: 0.127
Difference in spectral phase
Phase (BK.BDM.00.HNZ- BK.BDM.00.HHZ)
Median: -0.014
L1 norm: 0.147

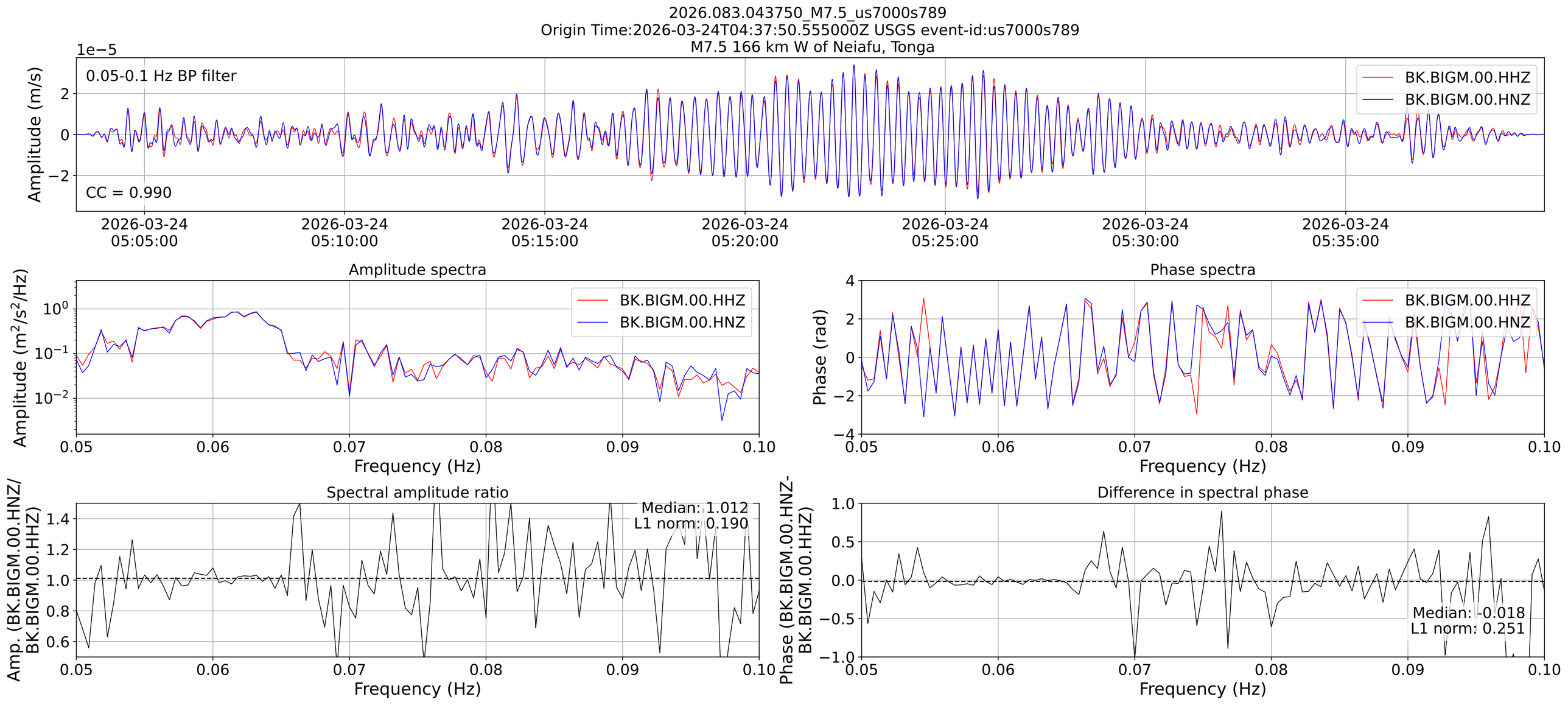

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.BEVN.00.HHE
BK.BEVN.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNE/ BK.BEVN.00.HHE)
Median: 1.021
L1 norm: 0.124
Difference in spectral phase
Phase (BK.BEVN.00.HNE- BK.BEVN.00.HHE)
Median: 0.004
L1 norm: 0.122

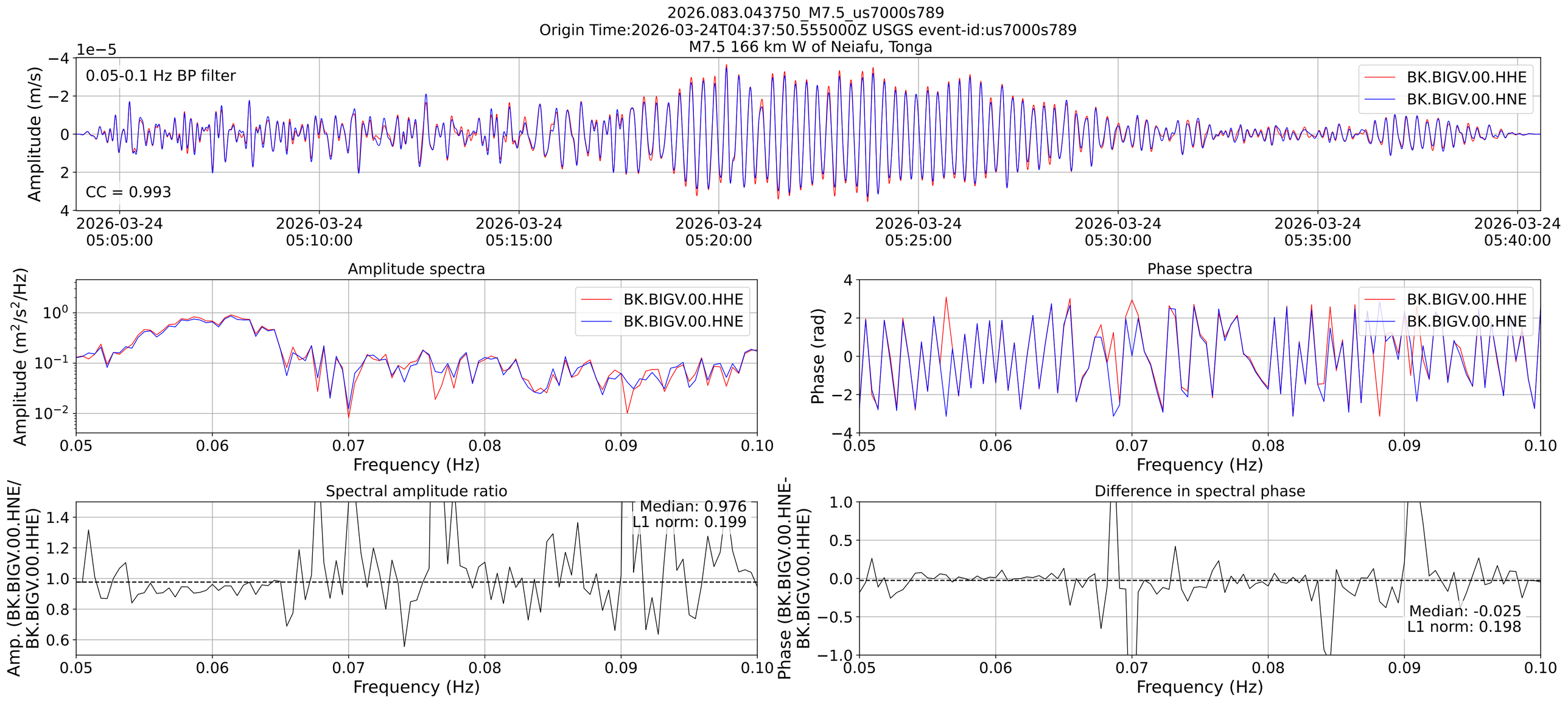

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.970
BK.BEVN.00.HHN
BK.BEVN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNN/ BK.BEVN.00.HHN)
Median: 0.991
L1 norm: 0.146
Difference in spectral phase
Phase (BK.BEVN.00.HNN- BK.BEVN.00.HHN)
Median: 0.007
L1 norm: 0.110

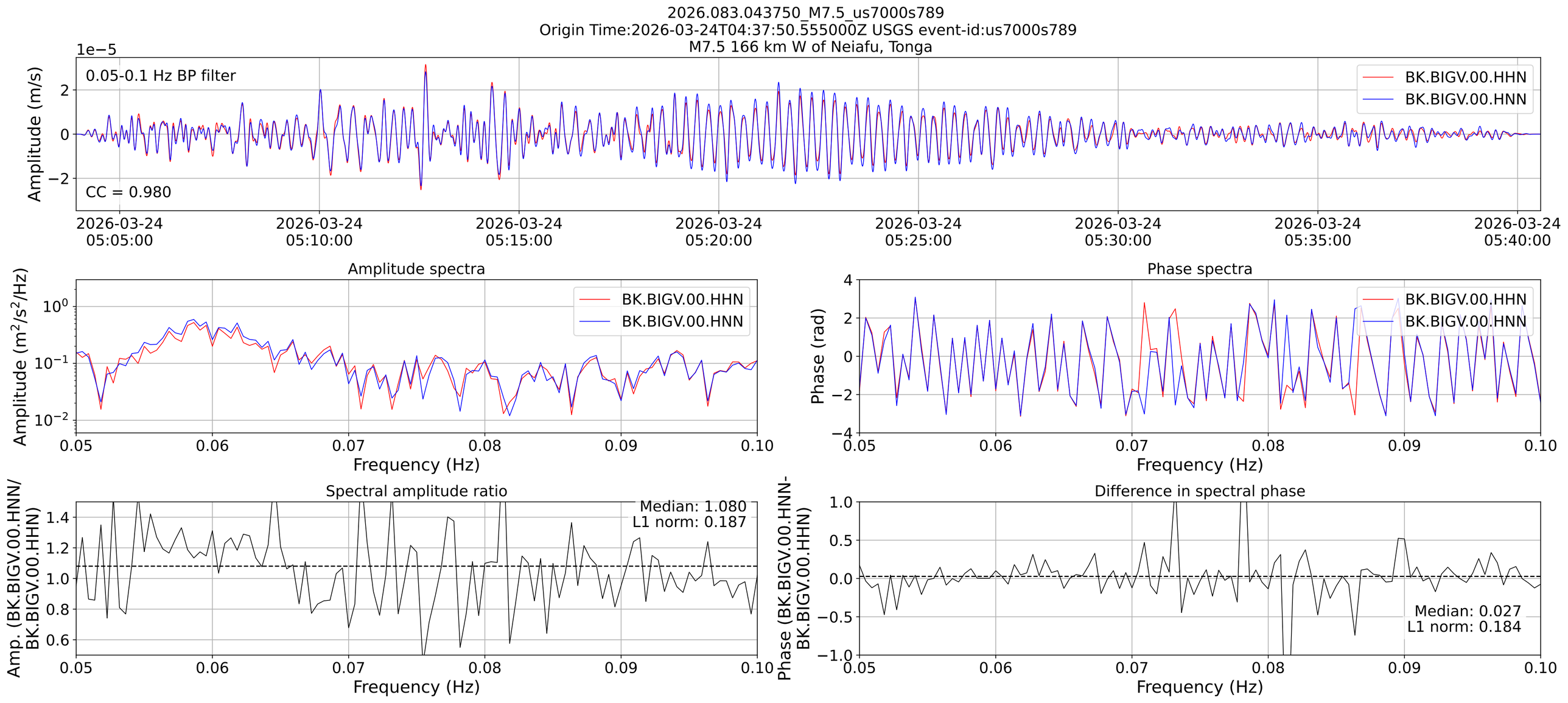

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.987
BK.BEVN.00.HHZ
BK.BEVN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BEVN.00.HNZ/ BK.BEVN.00.HHZ)
Median: 1.006
L1 norm: 0.216
Difference in spectral phase
Phase (BK.BEVN.00.HNZ- BK.BEVN.00.HHZ)
Median: -0.001
L1 norm: 0.190

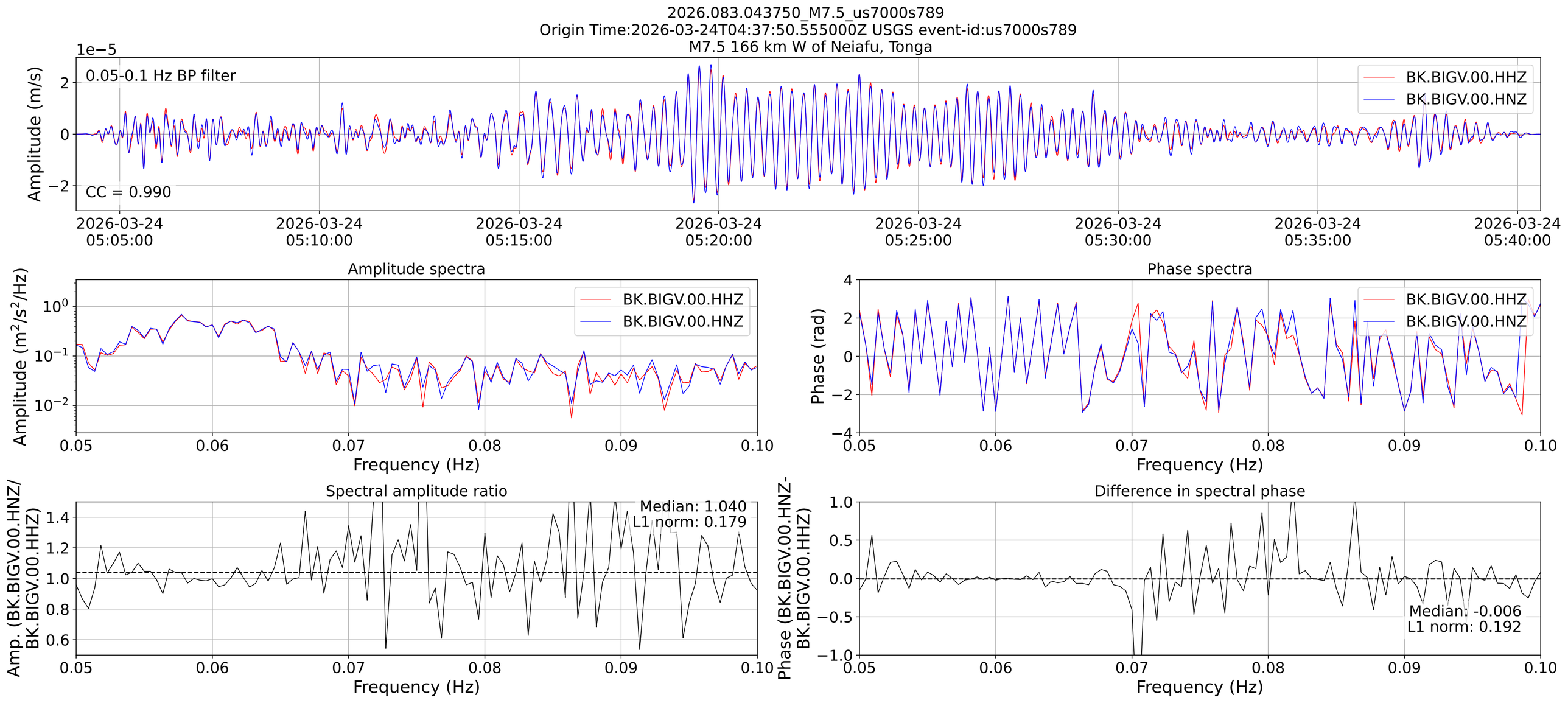

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.BIGM.00.HHE
BK.BIGM.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNE/ BK.BIGM.00.HHE)
Median: 1.043
L1 norm: 0.233
Difference in spectral phase
Phase (BK.BIGM.00.HNE- BK.BIGM.00.HHE)
Median: 0.010
L1 norm: 0.197

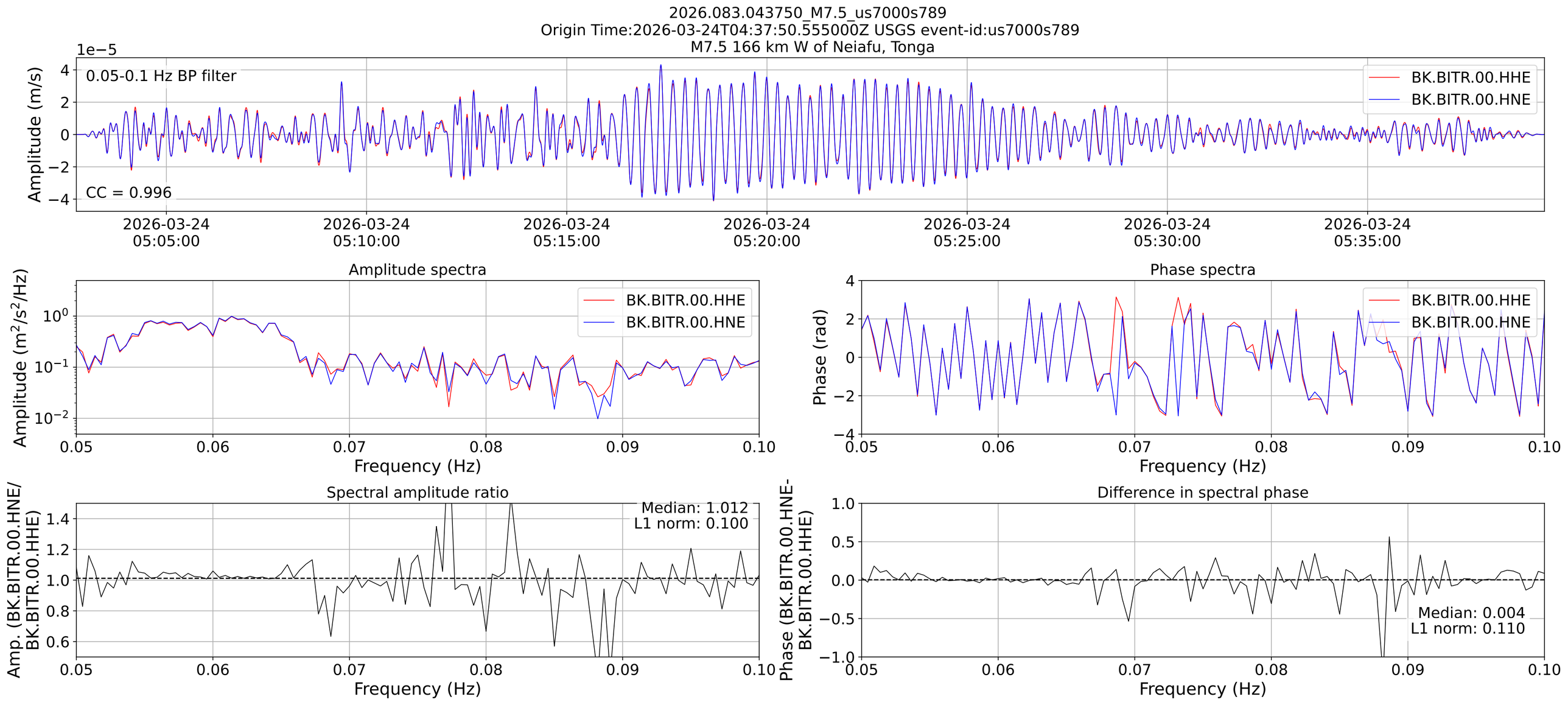

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
Amplitude (m/s)
BK.BIGM.00.HHN
BK.BIGM.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNN/ BK.BIGM.00.HHN)
Median: 1.028
L1 norm: 0.280
Difference in spectral phase
Phase (BK.BIGM.00.HNN- BK.BIGM.00.HHN)
Median: -0.024
L1 norm: 0.230

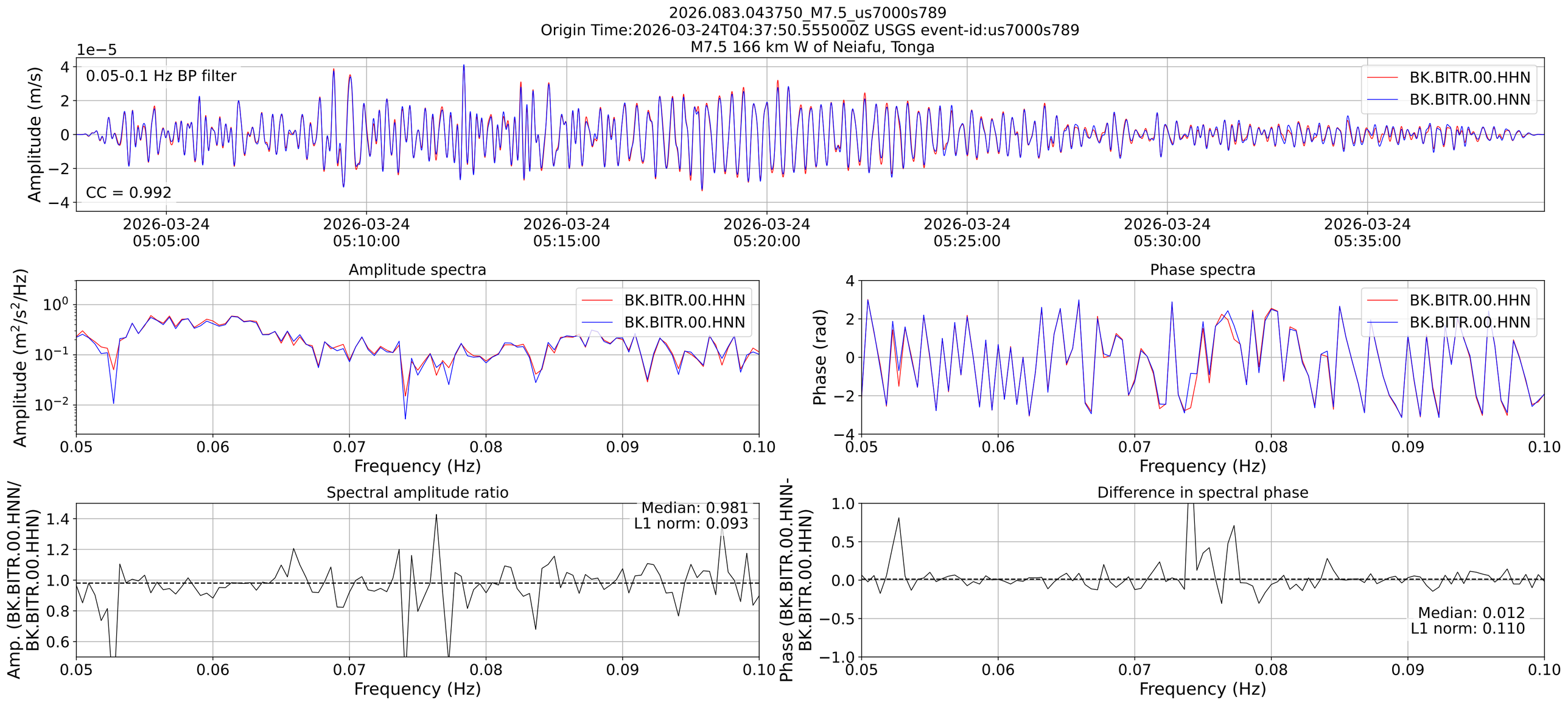

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.BIGM.00.HHZ
BK.BIGM.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGM.00.HNZ/ BK.BIGM.00.HHZ)
Median: 1.012
L1 norm: 0.190
Difference in spectral phase
Phase (BK.BIGM.00.HNZ- BK.BIGM.00.HHZ)
Median: -0.018
L1 norm: 0.251

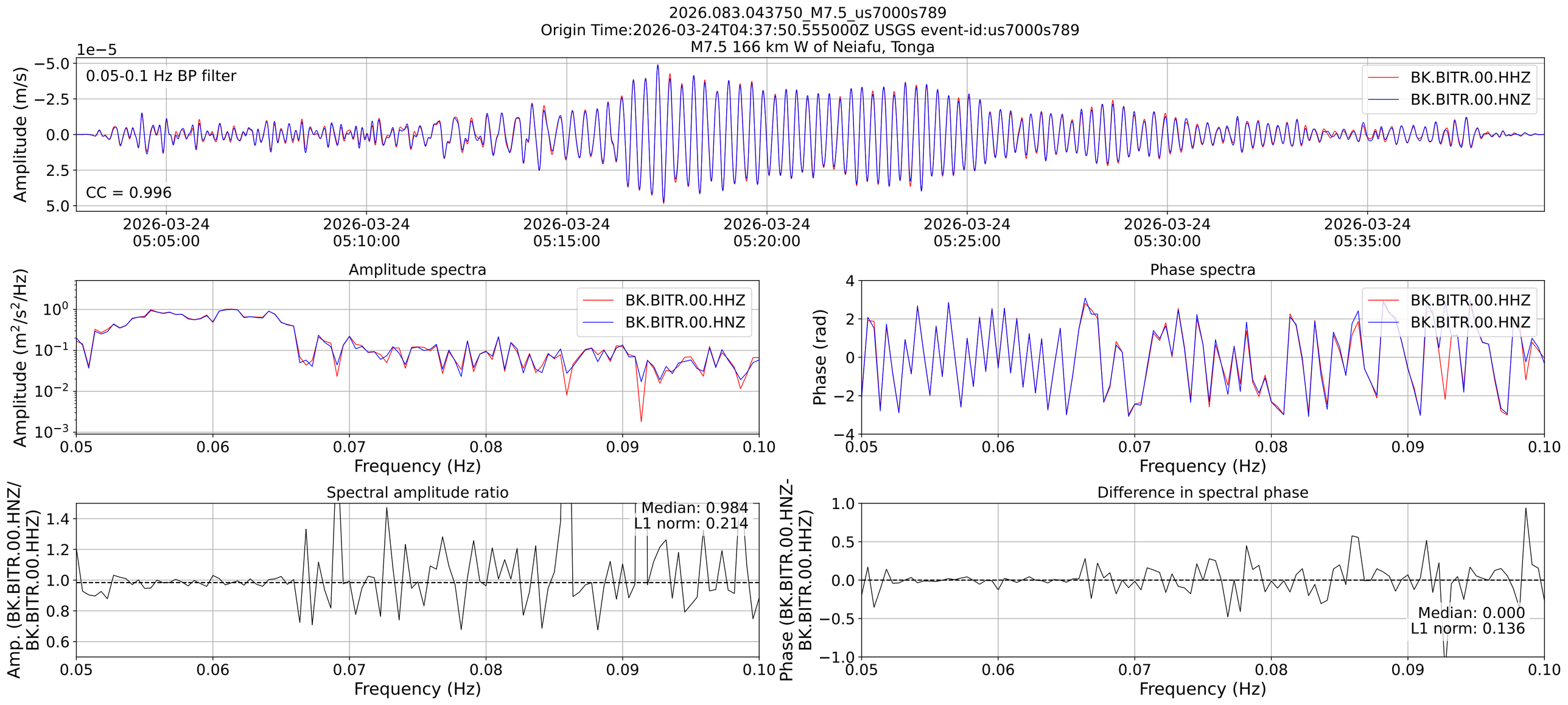

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.BIGV.00.HHE
BK.BIGV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNE/ BK.BIGV.00.HHE)
Median: 0.976
L1 norm: 0.199
Difference in spectral phase
Phase (BK.BIGV.00.HNE- BK.BIGV.00.HHE)
Median: -0.025
L1 norm: 0.198

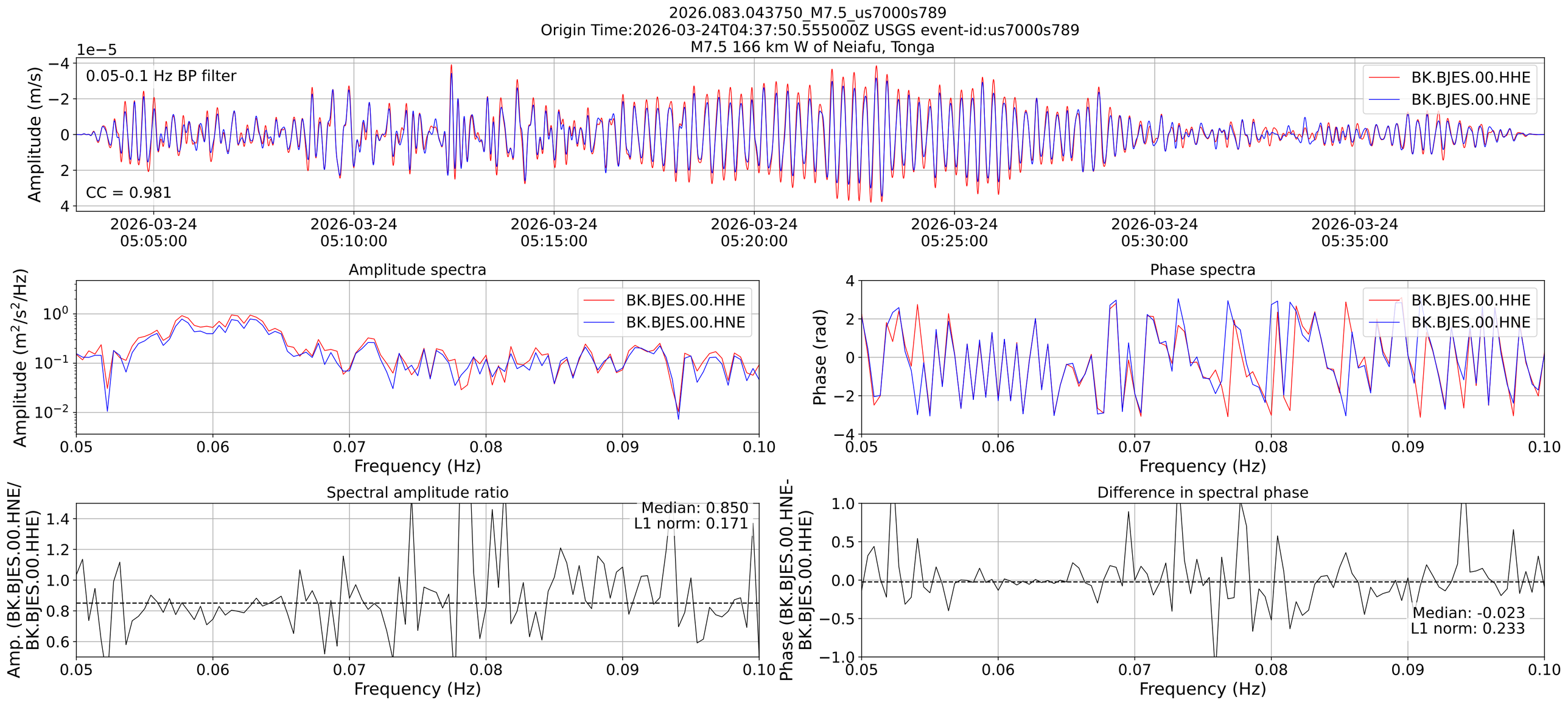

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.BIGV.00.HHN
BK.BIGV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNN/ BK.BIGV.00.HHN)
Median: 1.080
L1 norm: 0.187
Difference in spectral phase
Phase (BK.BIGV.00.HNN- BK.BIGV.00.HHN)
Median: 0.027
L1 norm: 0.184

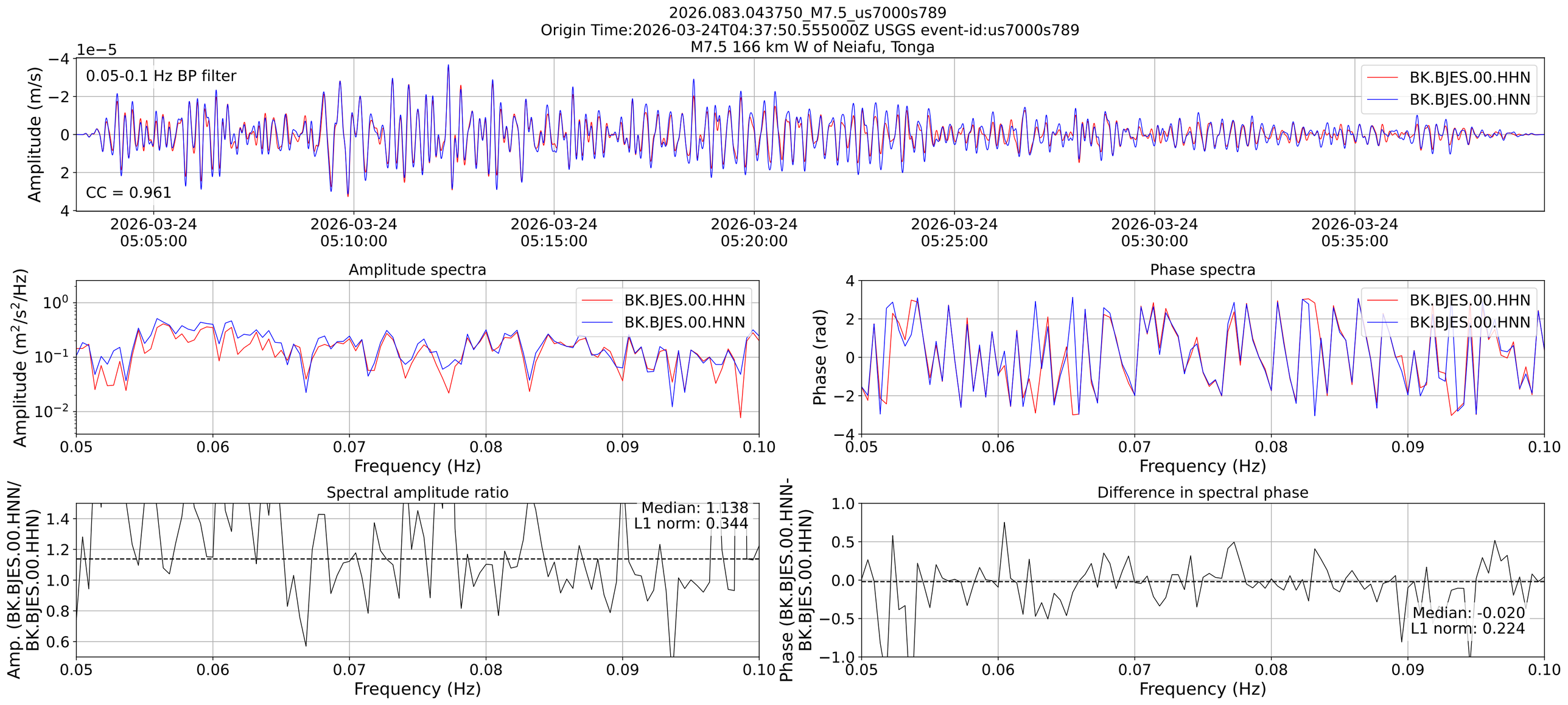

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.BIGV.00.HHZ
BK.BIGV.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BIGV.00.HNZ/ BK.BIGV.00.HHZ)
Median: 1.040
L1 norm: 0.179
Difference in spectral phase
Phase (BK.BIGV.00.HNZ- BK.BIGV.00.HHZ)
Median: -0.006
L1 norm: 0.192

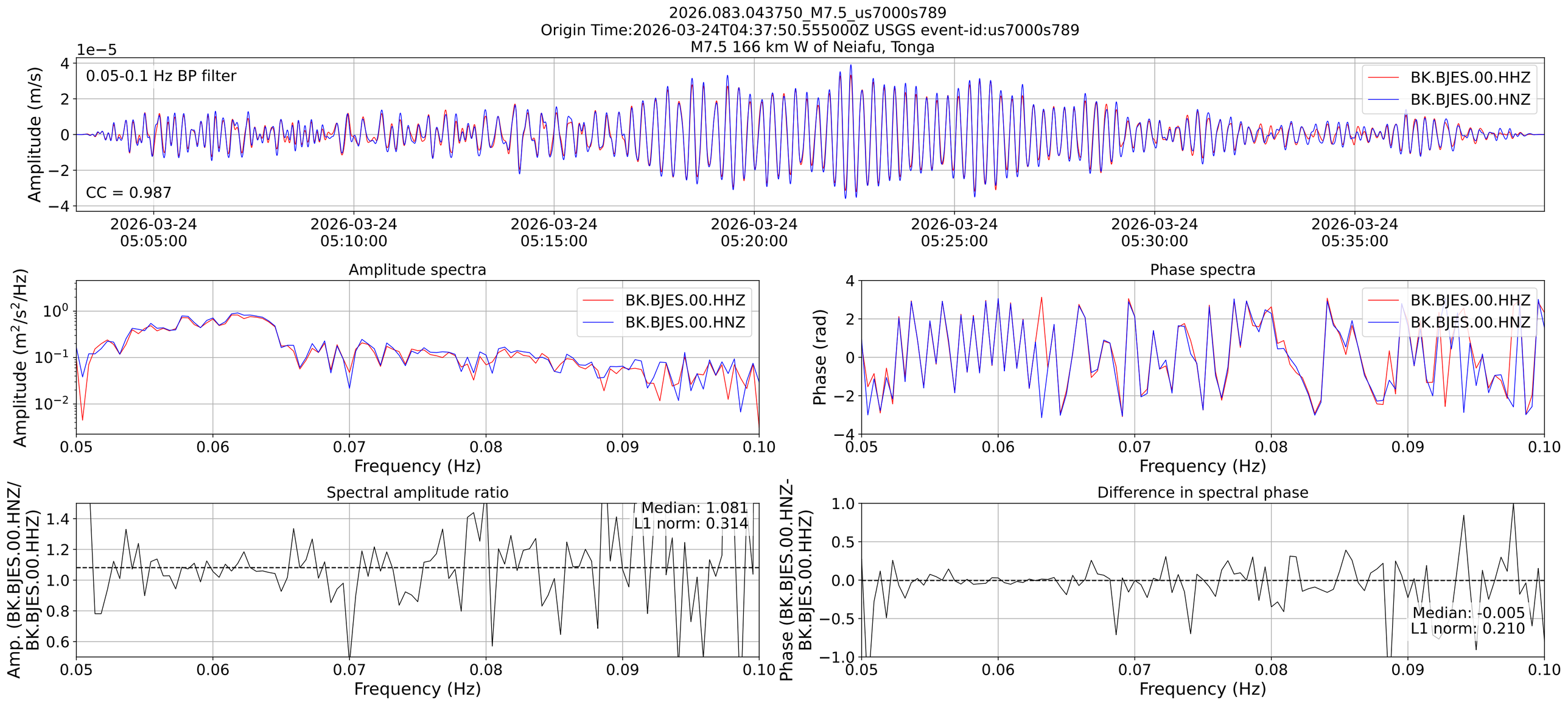

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.BITR.00.HHE
BK.BITR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BITR.00.HNE/ BK.BITR.00.HHE)
Median: 1.012
L1 norm: 0.100
Difference in spectral phase
Phase (BK.BITR.00.HNE- BK.BITR.00.HHE)
Median: 0.004
L1 norm: 0.110

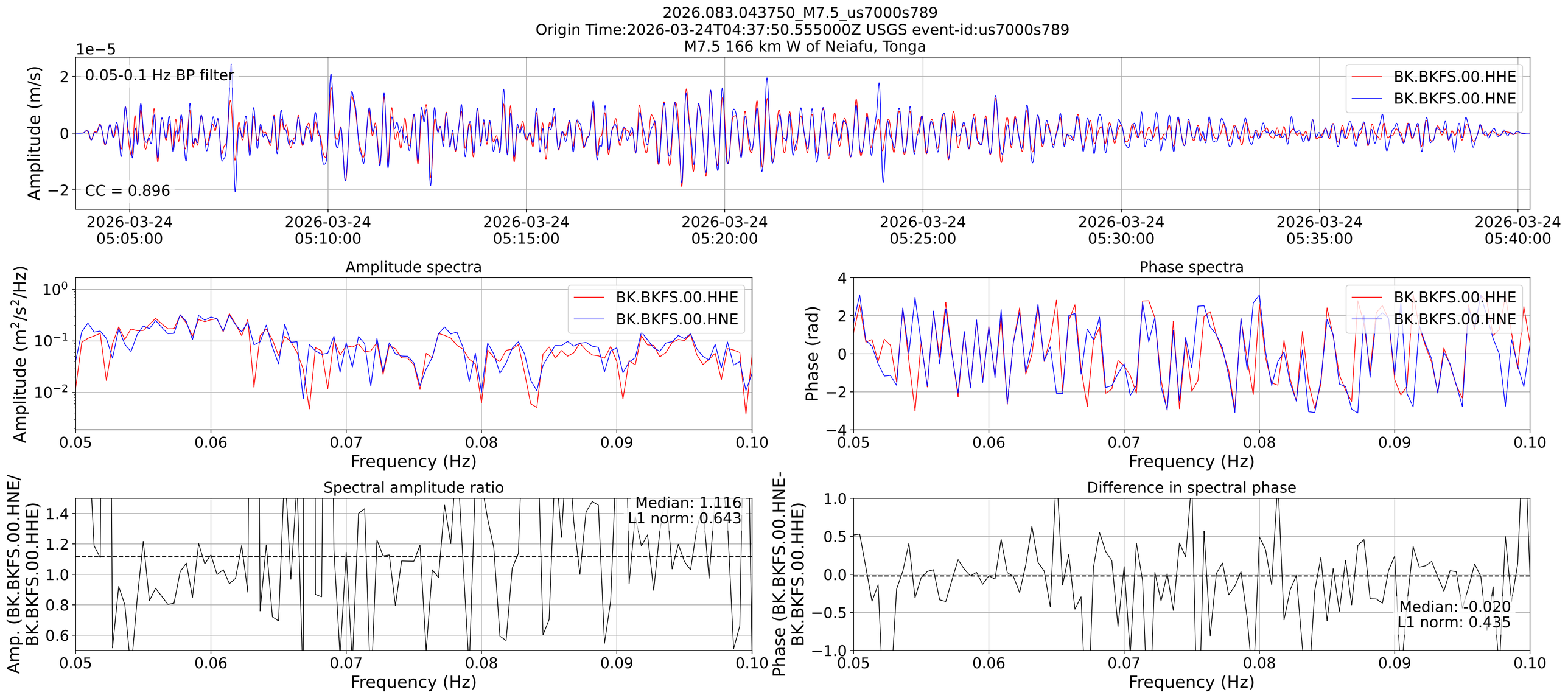

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.BITR.00.HHN
BK.BITR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BITR.00.HNN/ BK.BITR.00.HHN)
Median: 0.981
L1 norm: 0.093
Difference in spectral phase
Phase (BK.BITR.00.HNN- BK.BITR.00.HHN)
Median: 0.012
L1 norm: 0.110

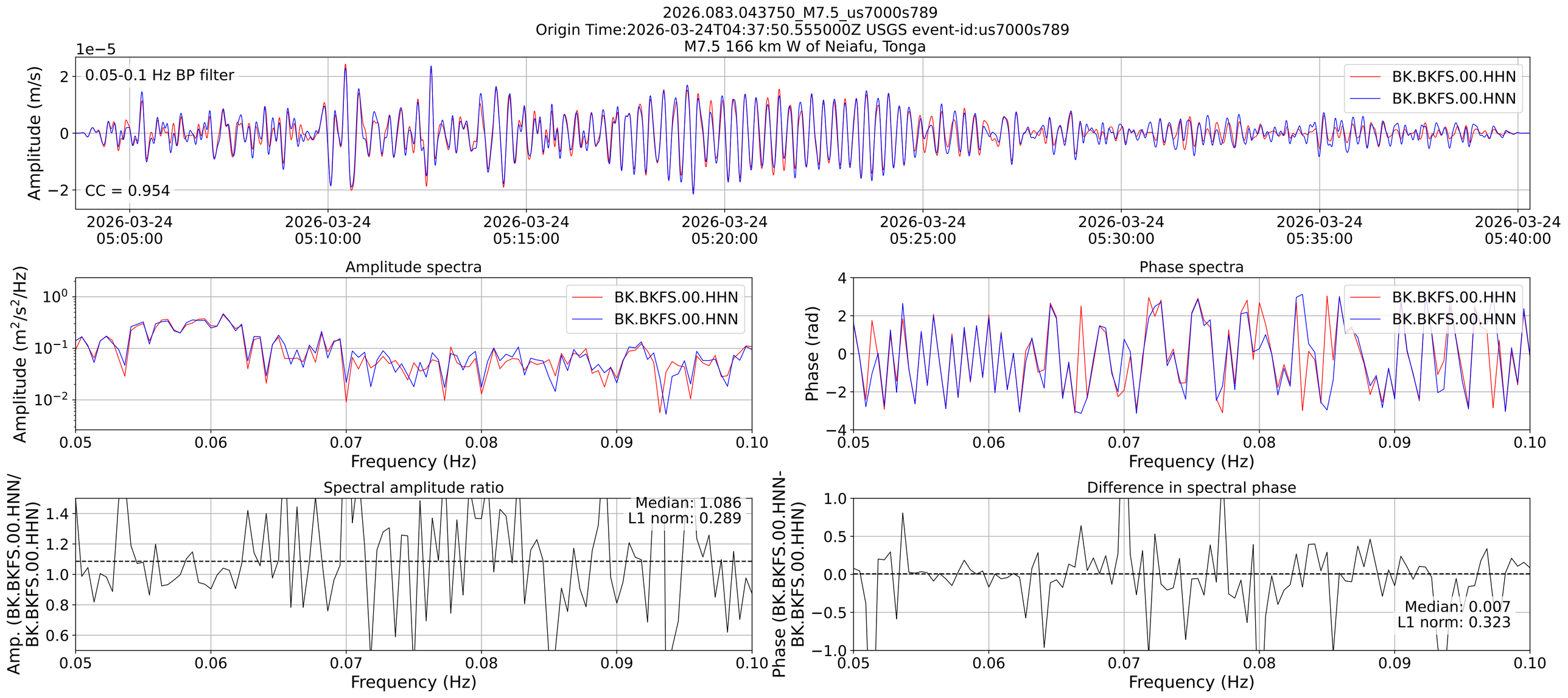

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.BITR.00.HHZ
BK.BITR.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BITR.00.HNZ/ BK.BITR.00.HHZ)
Median: 0.984
L1 norm: 0.214
Difference in spectral phase
Phase (BK.BITR.00.HNZ- BK.BITR.00.HHZ)
Median: 0.000
L1 norm: 0.136

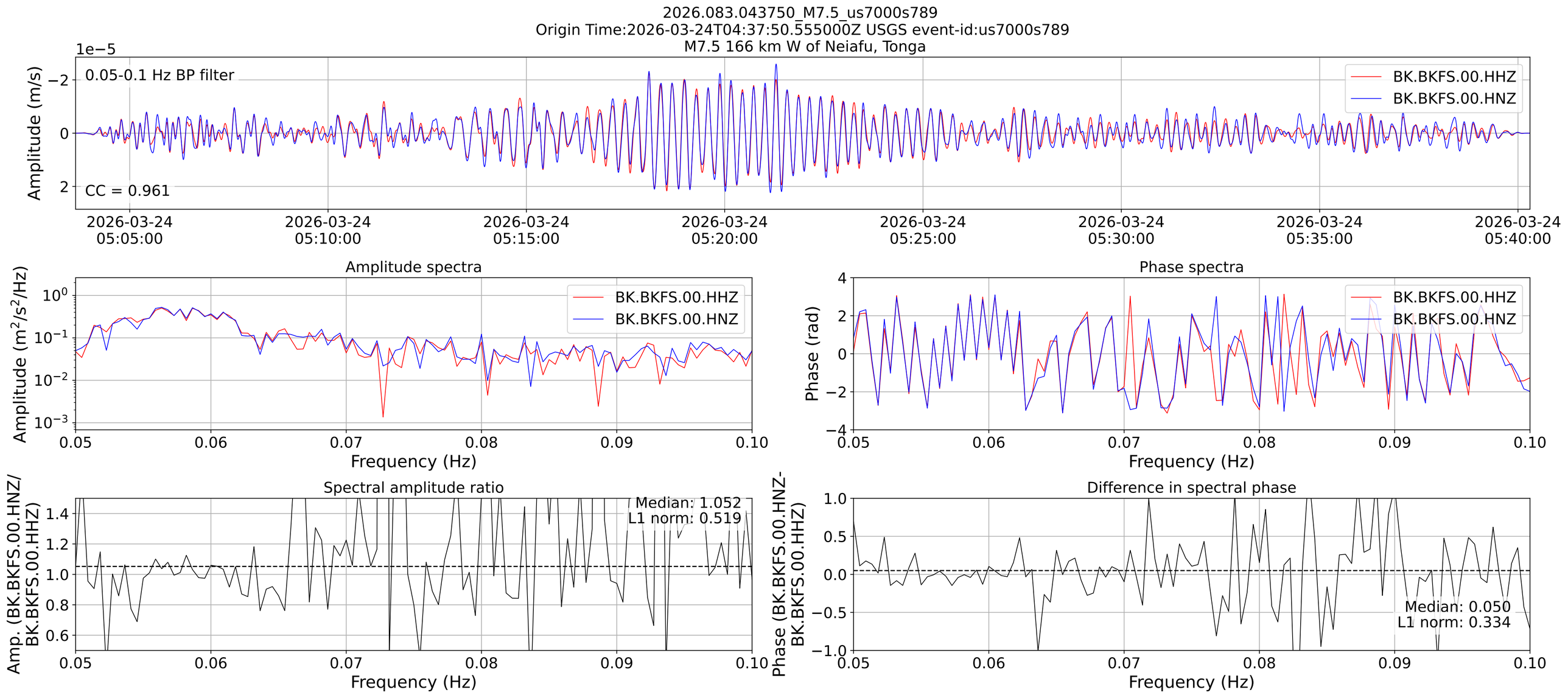

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.981
BK.BJES.00.HHE
BK.BJES.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNE/ BK.BJES.00.HHE)
Median: 0.850
L1 norm: 0.171
Difference in spectral phase
Phase (BK.BJES.00.HNE- BK.BJES.00.HHE)
Median: -0.023
L1 norm: 0.233

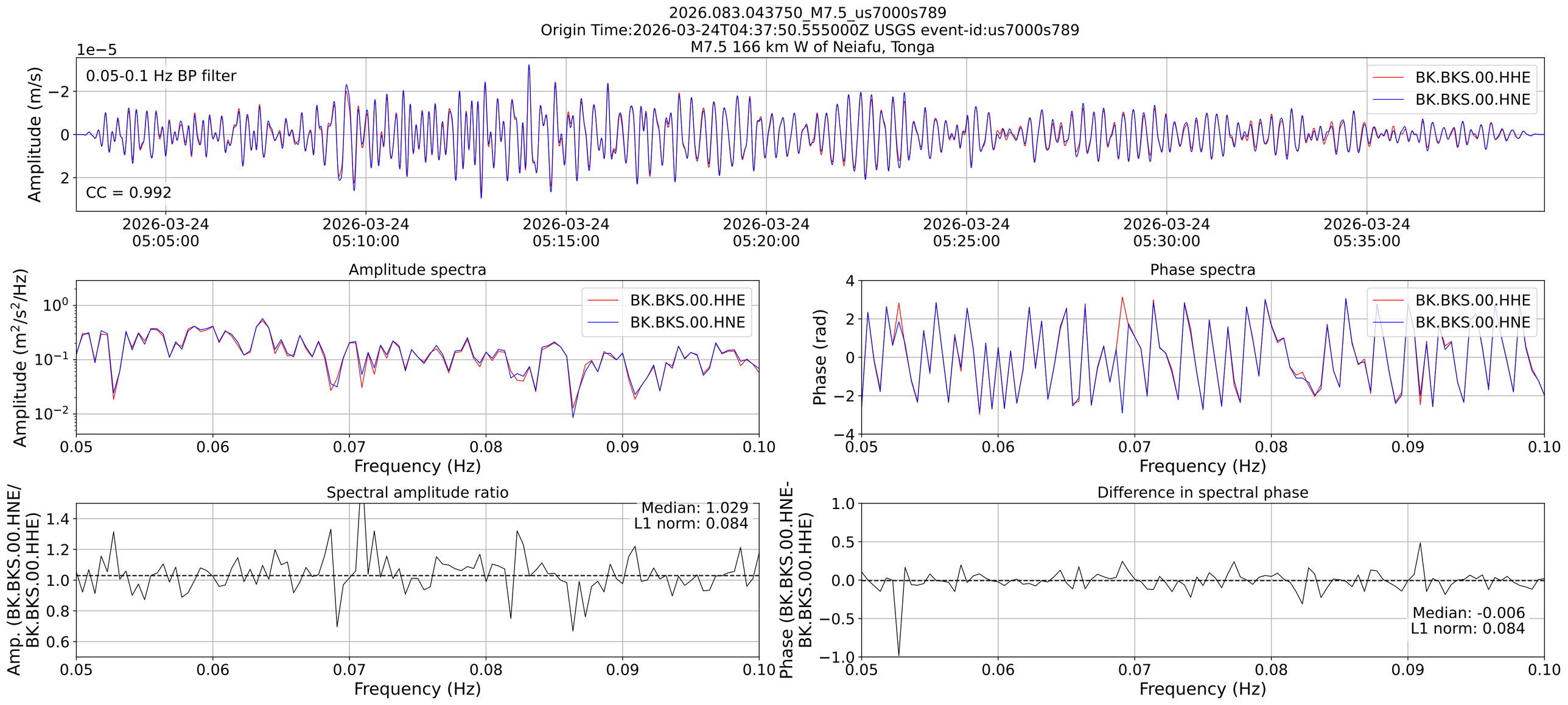

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
Amplitude (m/s)
BK.BJES.00.HHN
BK.BJES.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNN/ BK.BJES.00.HHN)
Median: 1.138
L1 norm: 0.344
Difference in spectral phase
Phase (BK.BJES.00.HNN- BK.BJES.00.HHN)
Median: -0.020
L1 norm: 0.224

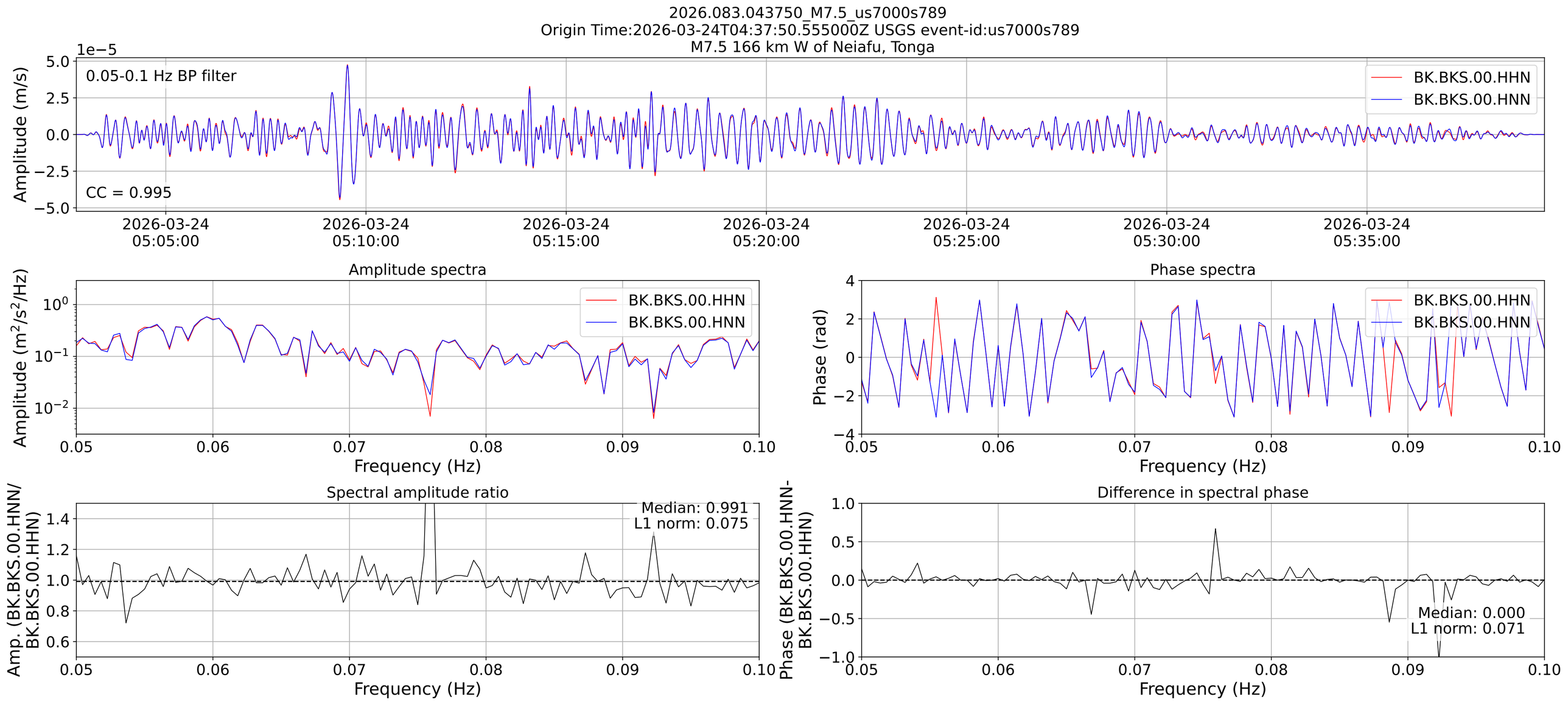

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.987
BK.BJES.00.HHZ
BK.BJES.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BJES.00.HNZ/ BK.BJES.00.HHZ)
Median: 1.081
L1 norm: 0.314
Difference in spectral phase
Phase (BK.BJES.00.HNZ-BK.BJES.00.HHZ)
Median: -0.005
L1 norm: 0.210

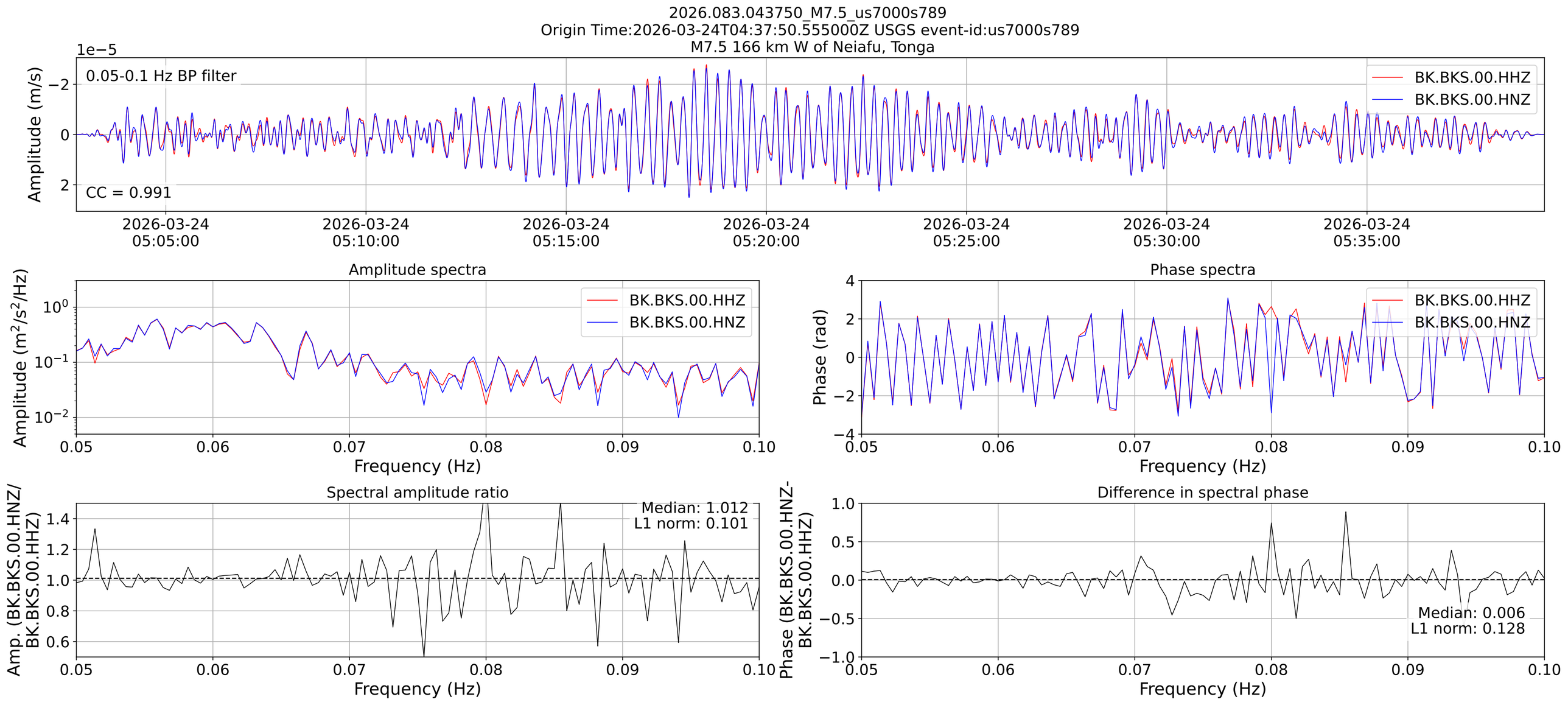

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.896
Amplitude (m/s)
BK.BKFS.00.HHE
BK.BKFS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKFS.00.HNE/ BK.BKFS.00.HHE)
Median: 1.116
L1 norm: 0.643
Difference in spectral phase
Phase (BK.BKFS.00.HNE- BK.BKFS.00.HHE)
Median: -0.020
L1 norm: 0.435

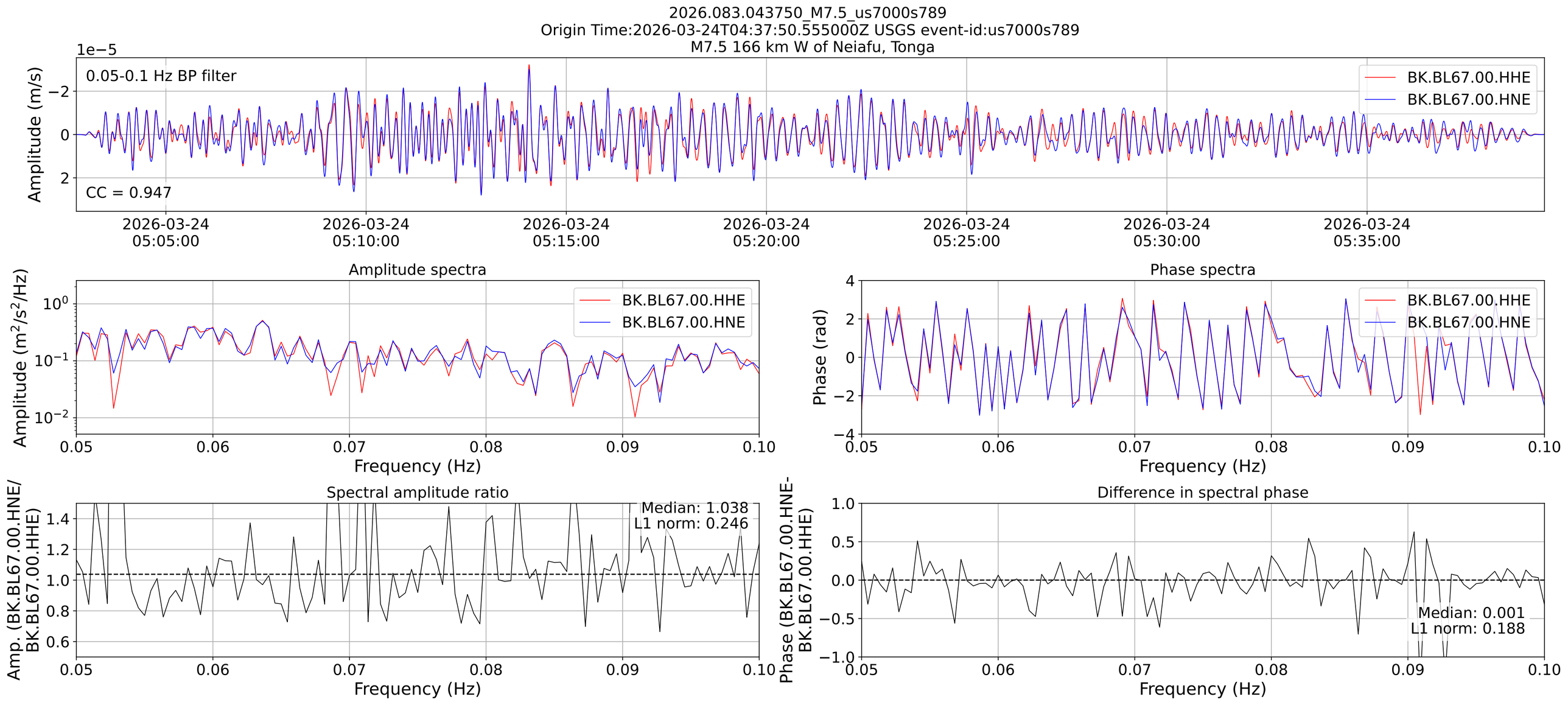

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.954
Amplitude (m/s)
BK.BKFS.00.HHN
BK.BKFS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKFS.00.HNN/ BK.BKFS.00.HHN)
Median: 1.086
L1 norm: 0.289
Difference in spectral phase
Phase (BK.BKFS.00.HNN- BK.BKFS.00.HHN)
Median: 0.007
L1 norm: 0.323

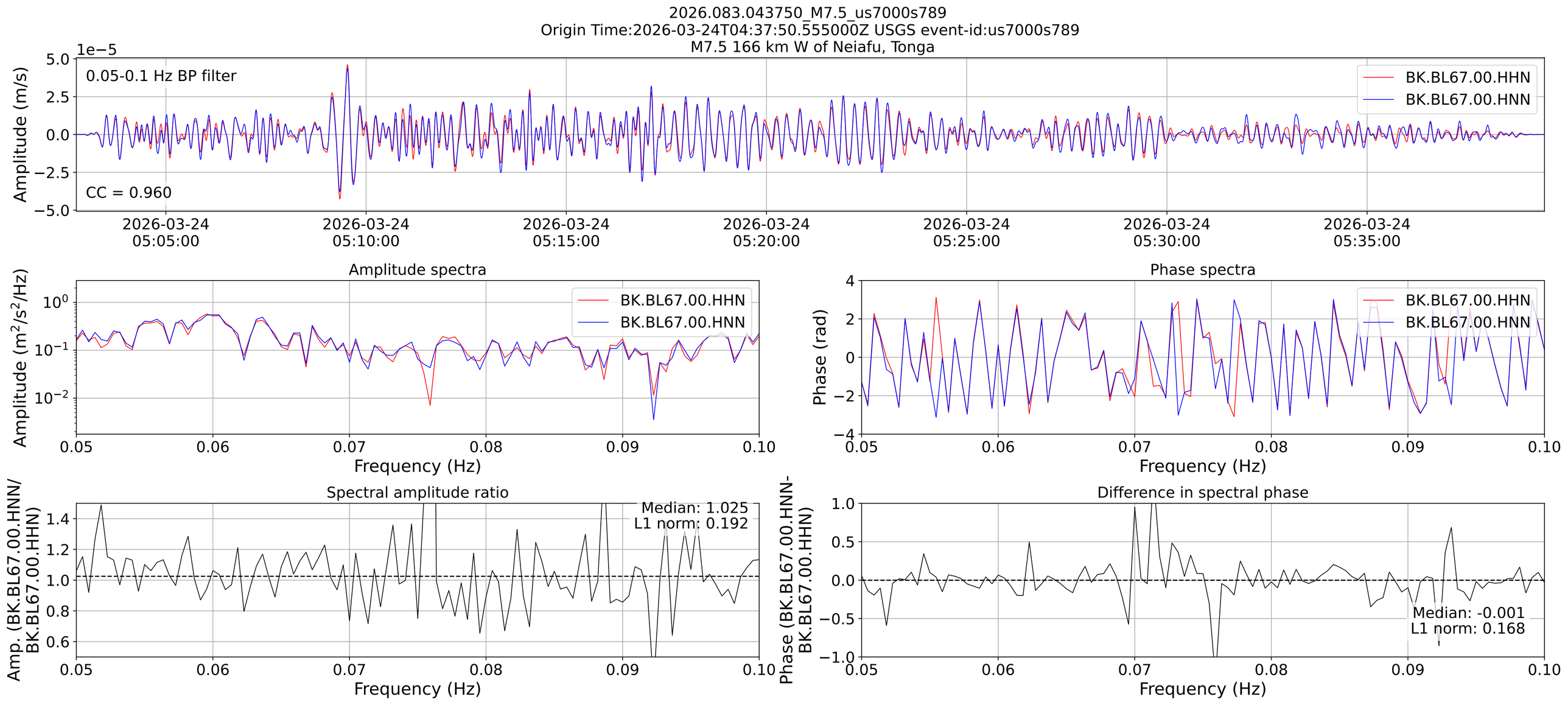

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
Amplitude (m/s)
BK.BKFS.00.HHZ
BK.BKFS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKFS.00.HNZ/ BK.BKFS.00.HHZ)
Median: 1.052
L1 norm: 0.519
Difference in spectral phase
Phase (BK.BKFS.00.HNZ- BK.BKFS.00.HHZ)
Median: 0.050
L1 norm: 0.334

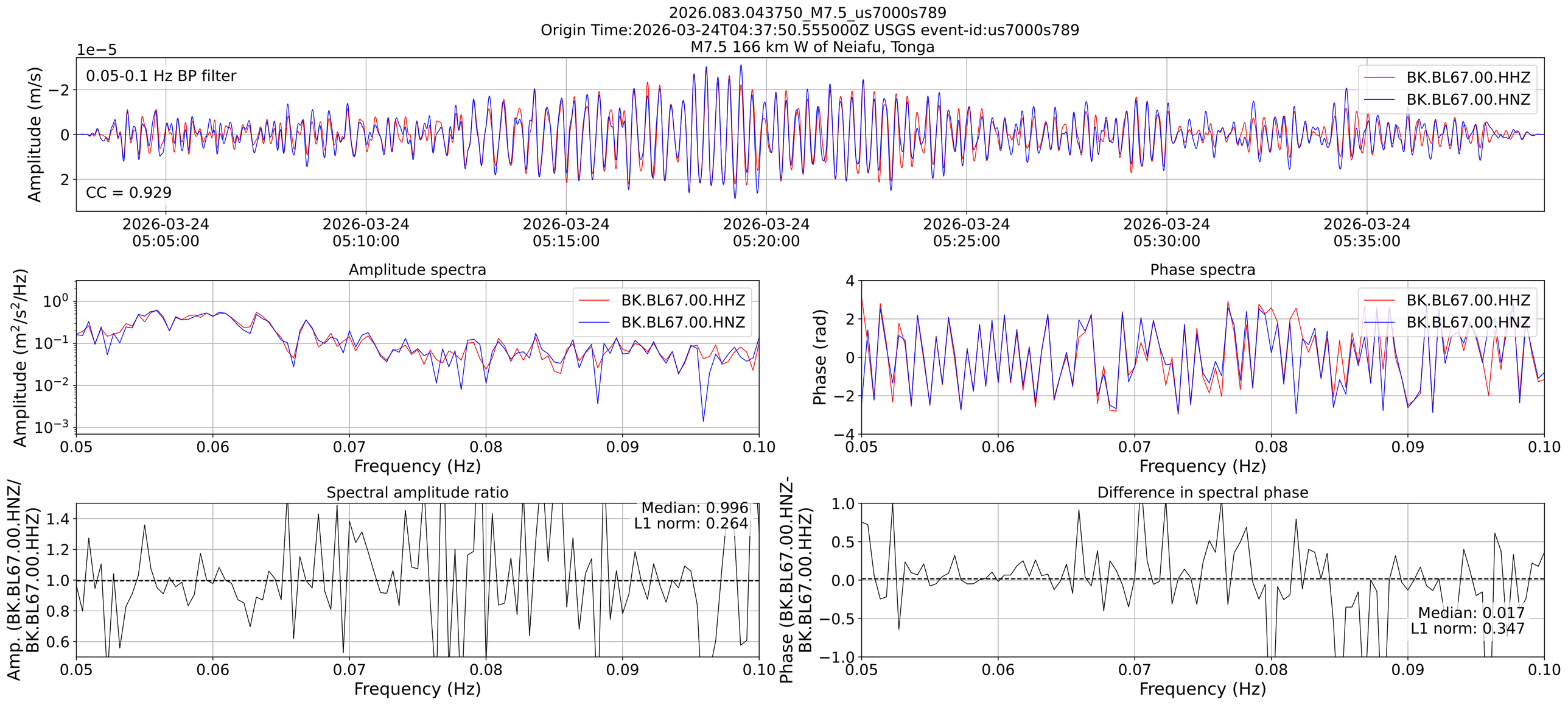

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.992
BK.BKS.00.HHE
BK.BKS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNE/ BK.BKS.00.HHE)
Median: 1.029
L1 norm: 0.084
Difference in spectral phase
Phase (BK.BKS.00.HNE- BK.BKS.00.HHE)
Median: -0.006
L1 norm: 0.084

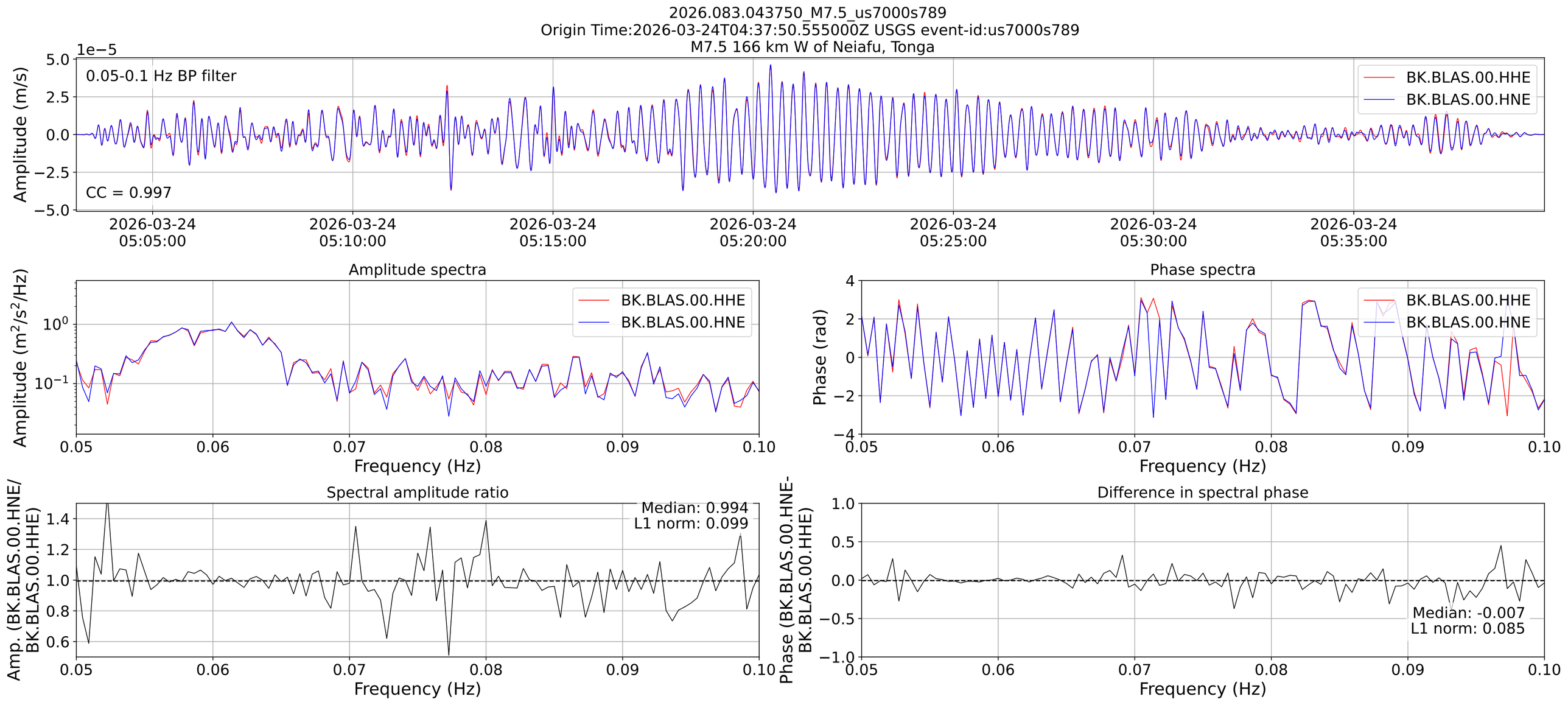

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.BKS.00.HHN
BK.BKS.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNN/ BK.BKS.00.HHN)
Median: 0.991
L1 norm: 0.075
Difference in spectral phase
Phase (BK.BKS.00.HNN- BK.BKS.00.HHN)
Median: 0.000
L1 norm: 0.071

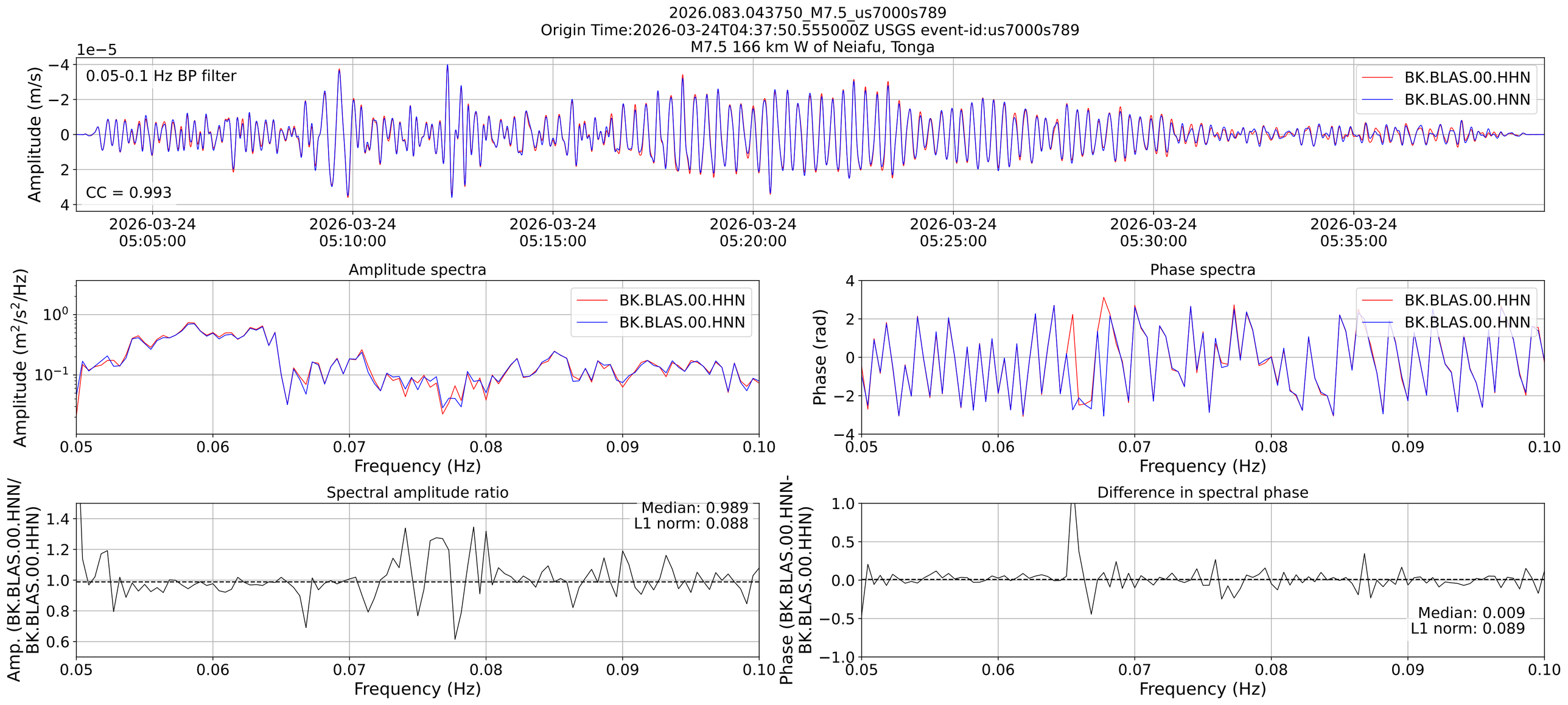

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.BKS.00.HHZ
BK.BKS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BKS.00.HNZ/ BK.BKS.00.HHZ)
Median: 1.012
L1 norm: 0.101
Difference in spectral phase
Phase (BK.BKS.00.HNZ- BK.BKS.00.HHZ)
Median: 0.006
L1 norm: 0.128

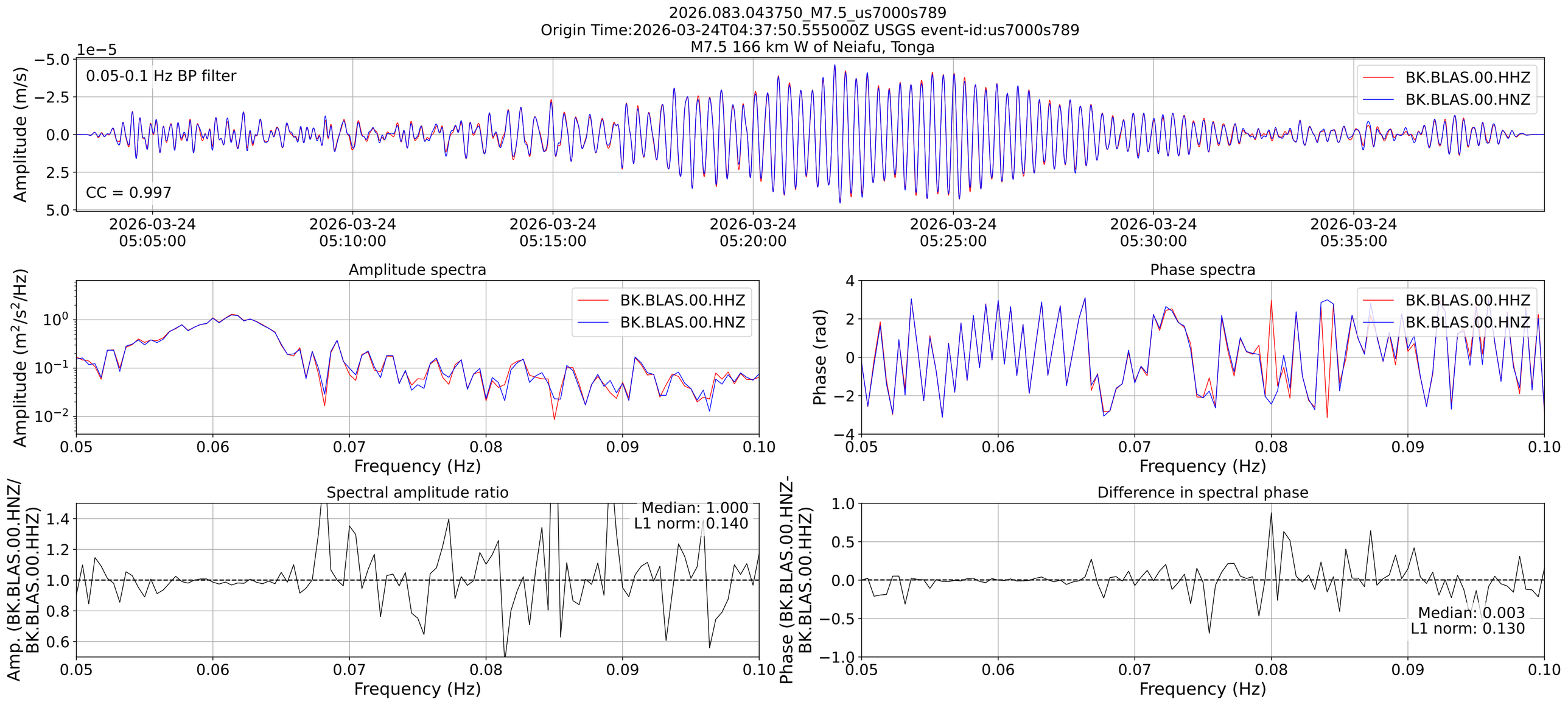

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.947
BK.BL67.00.HHE
BK.BL67.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BL67.00.HNE/ BK.BL67.00.HHE)
Median: 1.038
L1 norm: 0.246
Difference in spectral phase
Phase (BK.BL67.00.HNE- BK.BL67.00.HHE)
Median: 0.001
L1 norm: 0.188

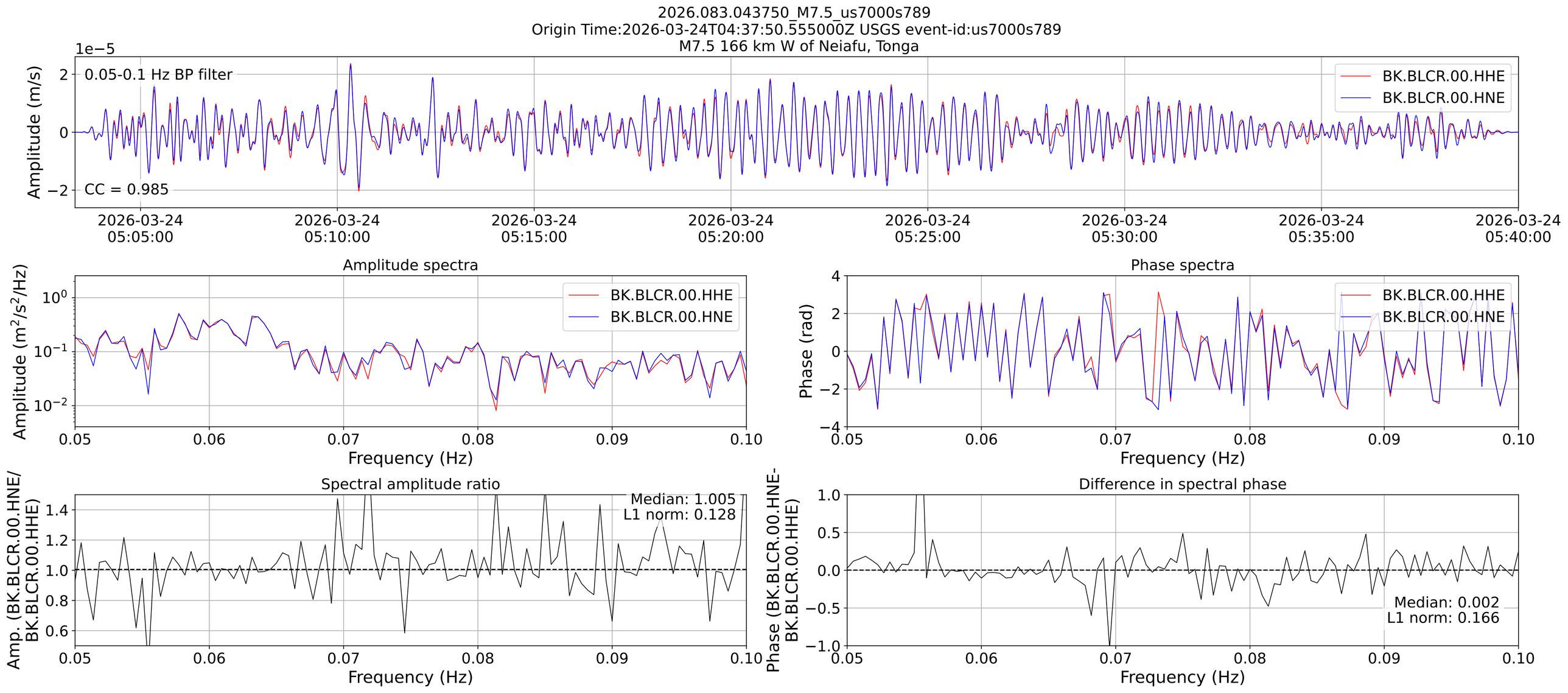

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.960
BK.BL67.00.HHN
BK.BL67.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BL67.00.HNN/ BK.BL67.00.HHN)
Median: 1.025
L1 norm: 0.192
Difference in spectral phase
Phase (BK.BL67.00.HNN- BK.BL67.00.HHN)
Median: -0.001
L1 norm: 0.168

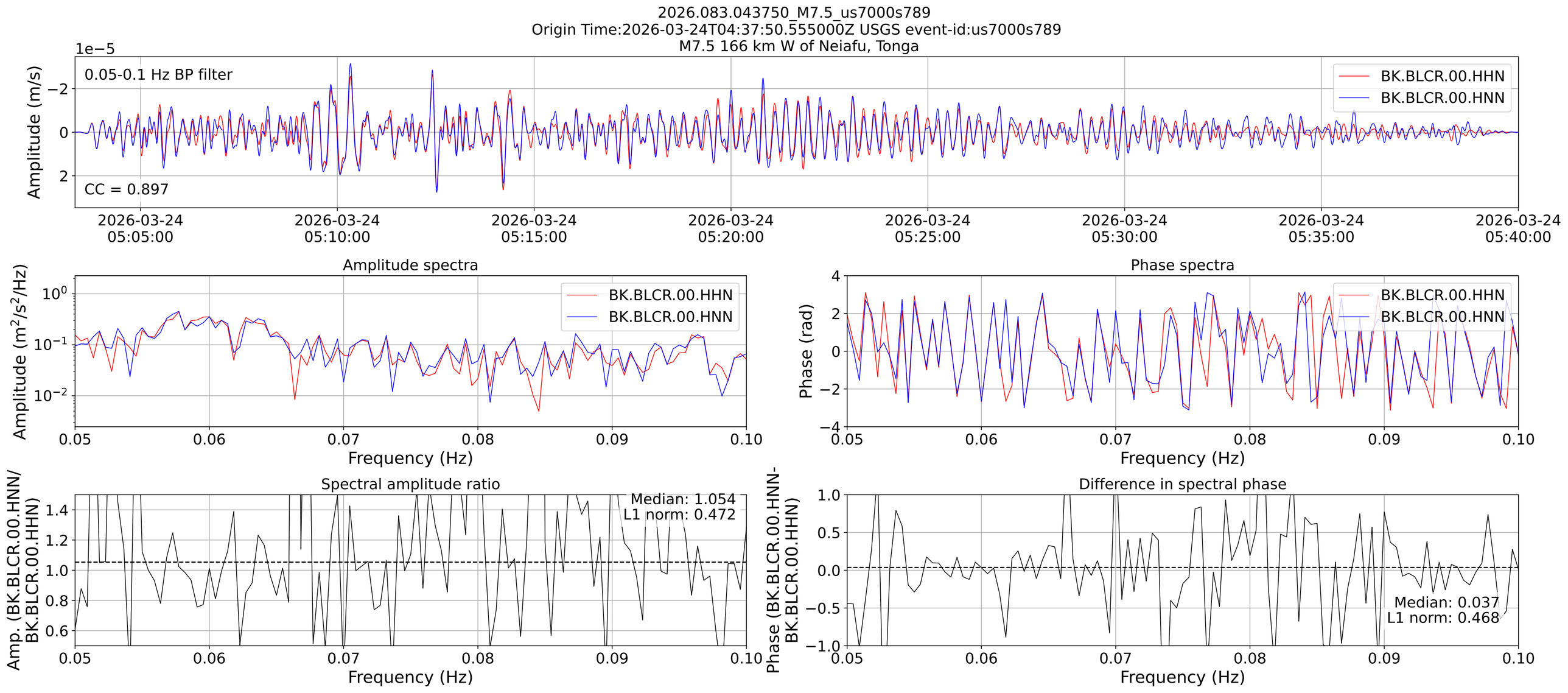

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.929
Amplitude (m/s)
BK.BL67.00.HHZ
BK.BL67.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BL67.00.HNZ/ BK.BL67.00.HHZ)
Median: 0.996
L1 norm: 0.264
Difference in spectral phase
Phase (BK.BL67.00.HNZ- BK.BL67.00.HHZ)
Median: 0.017
L1 norm: 0.347

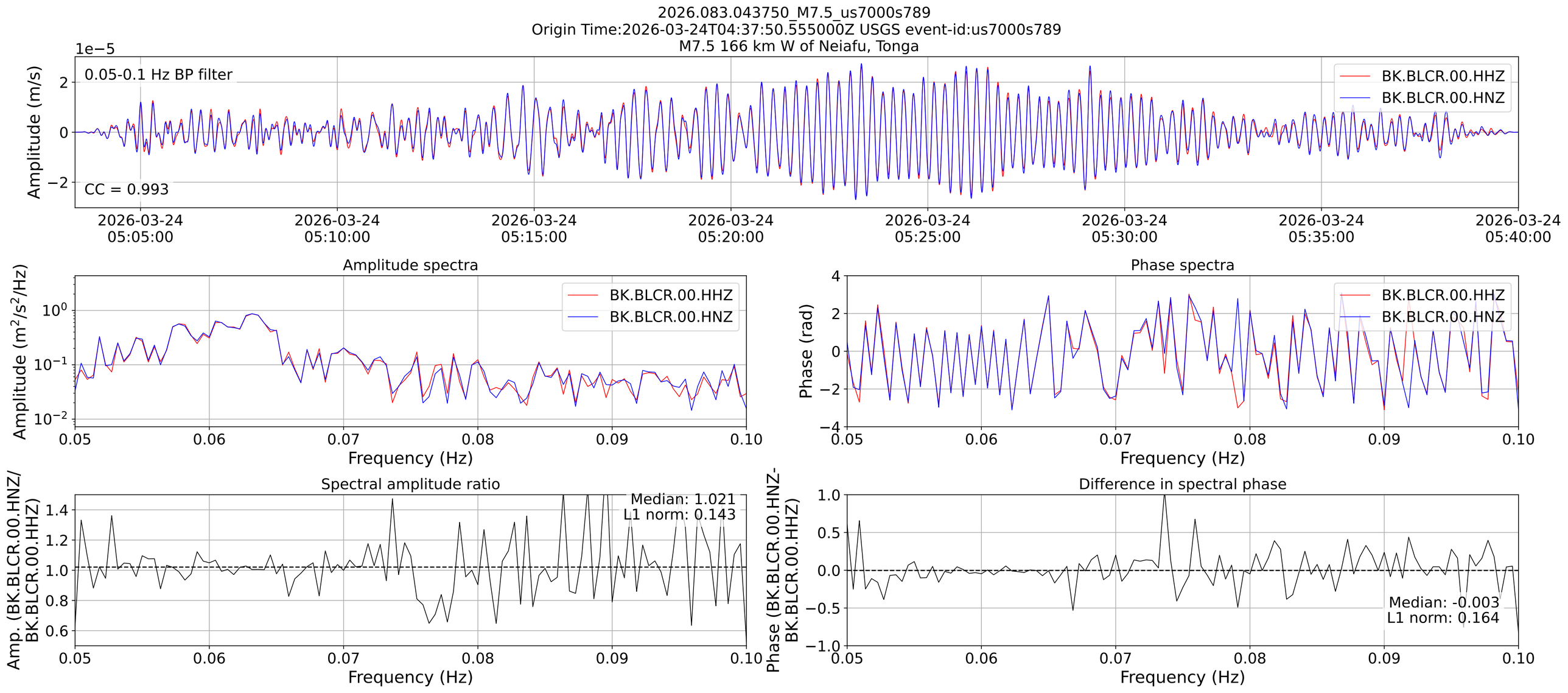

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
BK.BLAS.00.HHE
BK.BLAS.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNE/ BK.BLAS.00.HHE)
Median: 0.994
L1 norm: 0.099
Difference in spectral phase
Phase (BK.BLAS.00.HNE- BK.BLAS.00.HHE)
Median: -0.007
L1 norm: 0.085

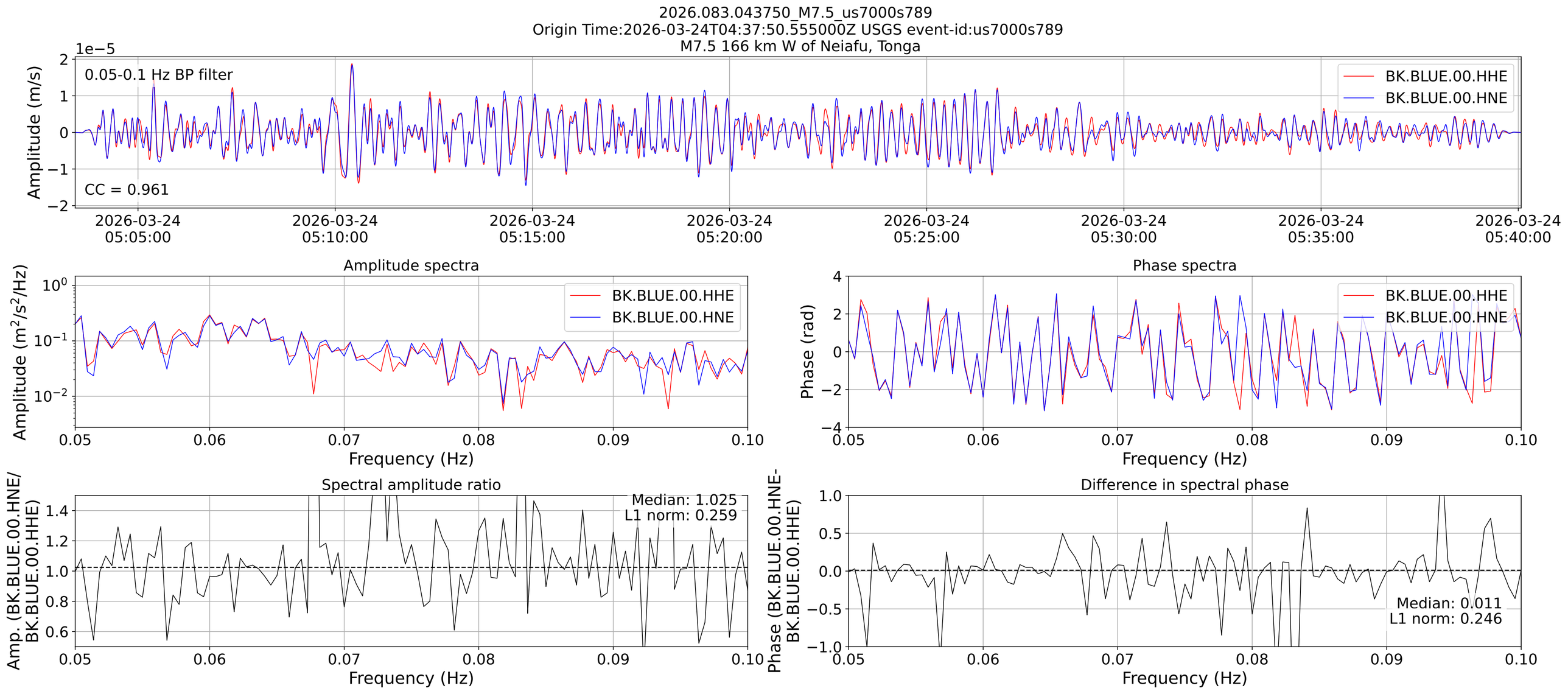

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.BLAS.00.HHN
BK.BLAS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNN/ BK.BLAS.00.HHN)
Median: 0.989
L1 norm: 0.088
Difference in spectral phase
Phase (BK.BLAS.00.HNN- BK.BLAS.00.HHN)
Median: 0.009
L1 norm: 0.089

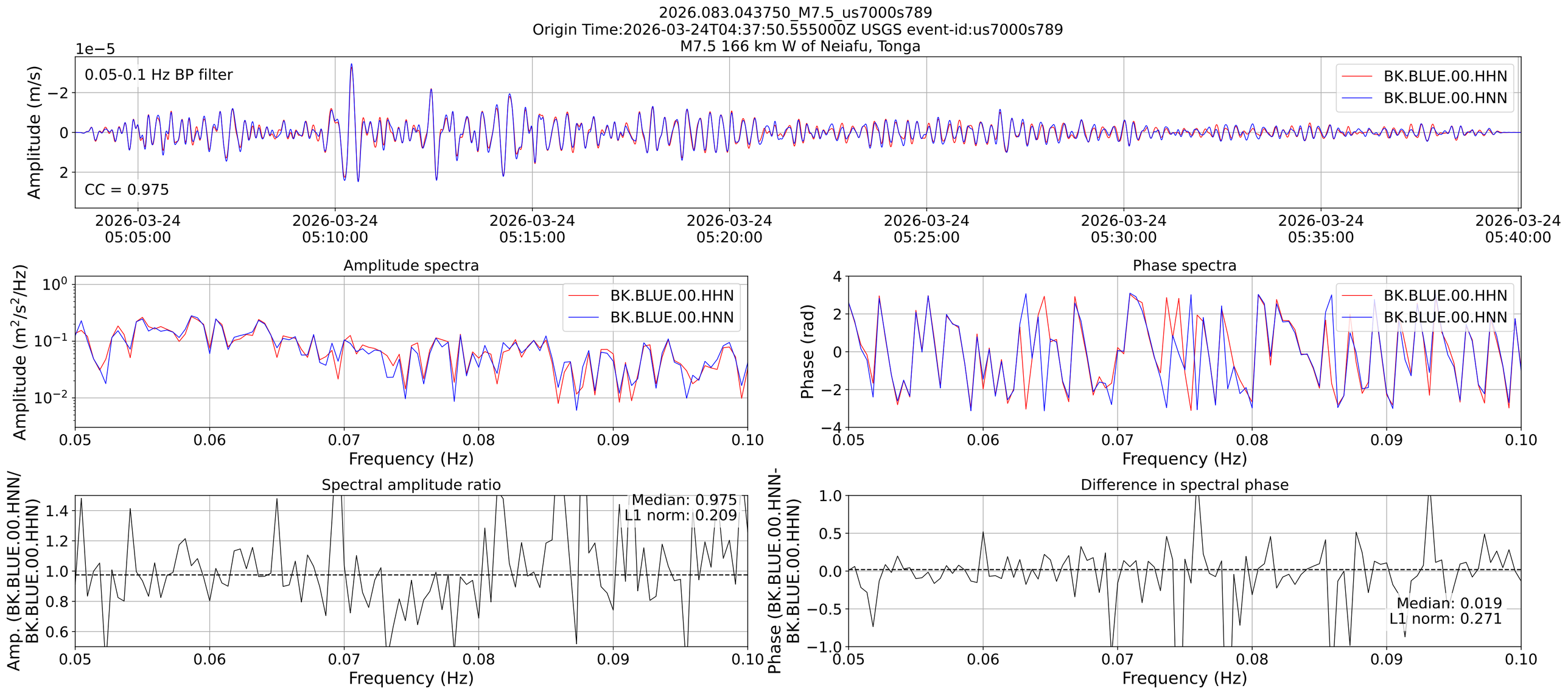

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.BLAS.00.HHZ
BK.BLAS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLAS.00.HNZ/ BK.BLAS.00.HHZ)
Median: 1.000
L1 norm: 0.140
Difference in spectral phase
Phase (BK.BLAS.00.HNZ- BK.BLAS.00.HHZ)
Median: 0.003
L1 norm: 0.130

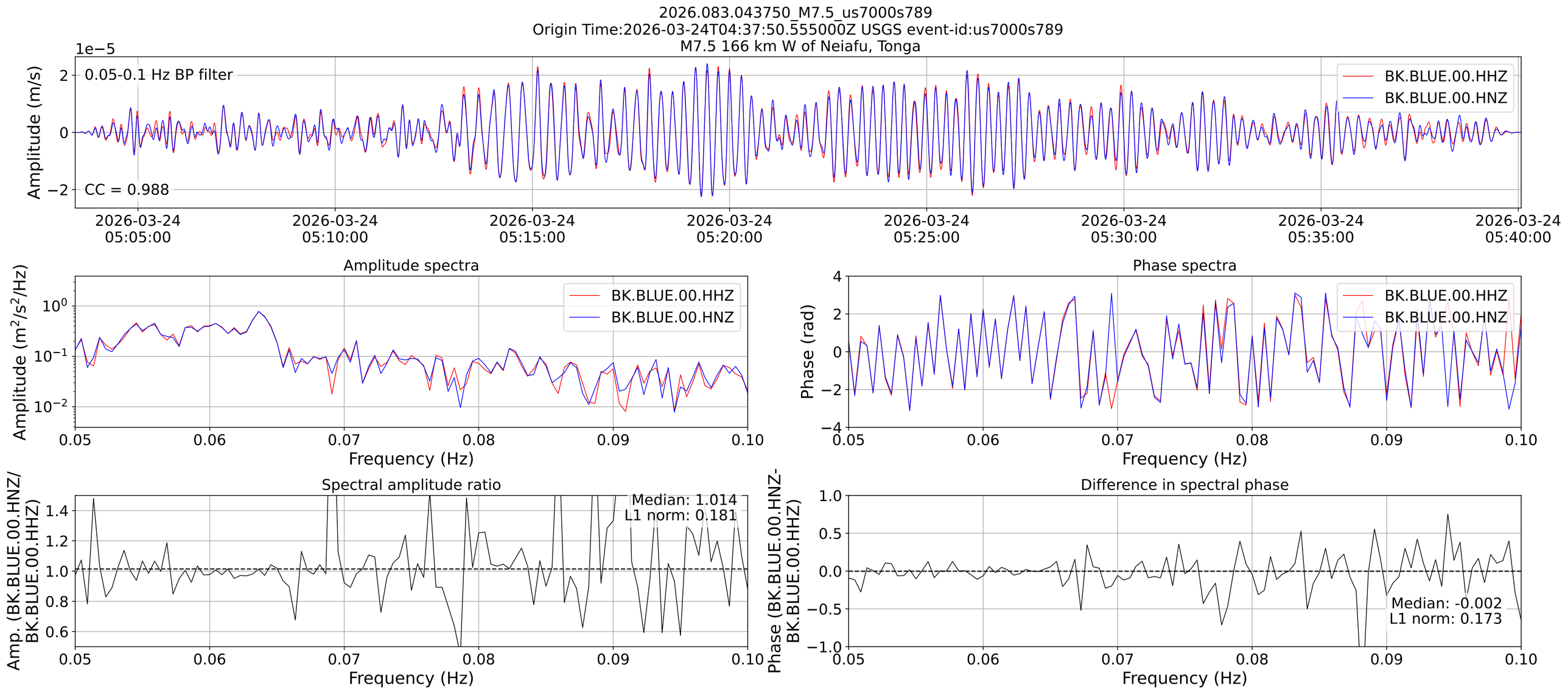

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.BLCR.00.HHE
BK.BLCR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNE/ BK.BLCR.00.HHE)
Median: 1.005
L1 norm: 0.128
Difference in spectral phase
Phase (BK.BLCR.00.HNE- BK.BLCR.00.HHE)
Median: 0.002
L1 norm: 0.166

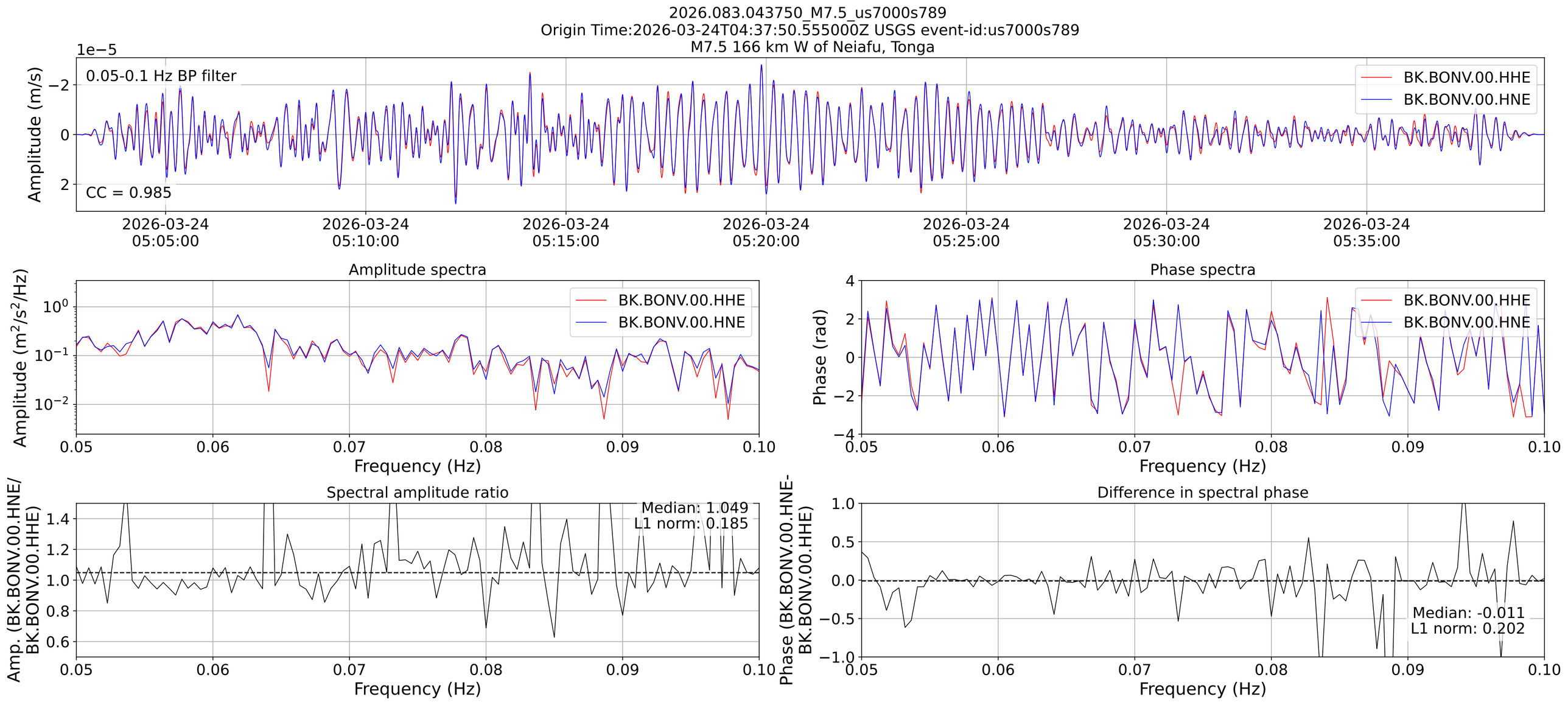

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.897
Amplitude (m/s)
BK.BLCR.00.HHN
BK.BLCR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNN/ BK.BLCR.00.HHN)
Median: 1.054
L1 norm: 0.472
Difference in spectral phase
Phase (BK.BLCR.00.HNN- BK.BLCR.00.HHN)
Median: 0.037
L1 norm: 0.468

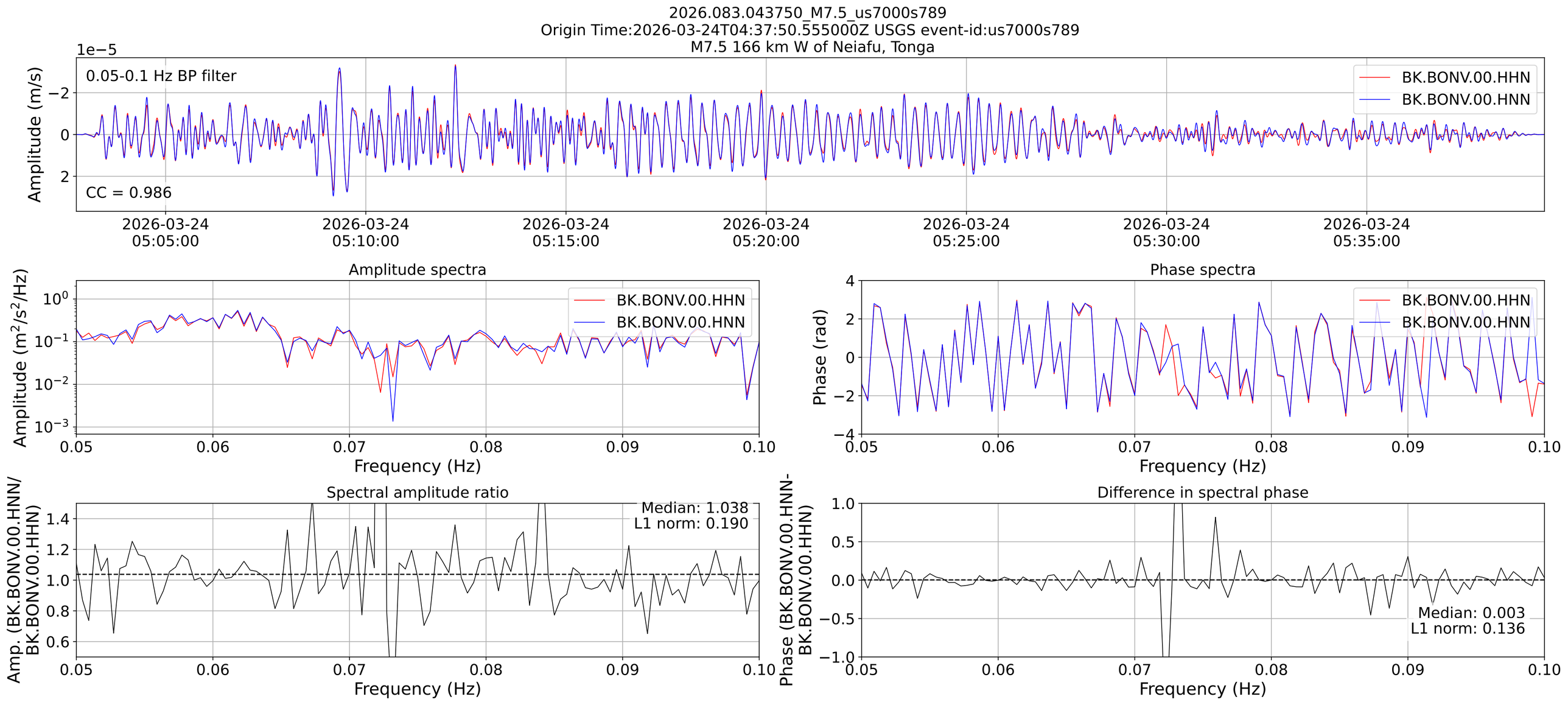

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.BLCR.00.HHZ
BK.BLCR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLCR.00.HNZ/ BK.BLCR.00.HHZ)
Median: 1.021
L1 norm: 0.143
Difference in spectral phase
Phase (BK.BLCR.00.HNZ-BK.BLCR.00.HHZ)
Median: -0.003
L1 norm: 0.164

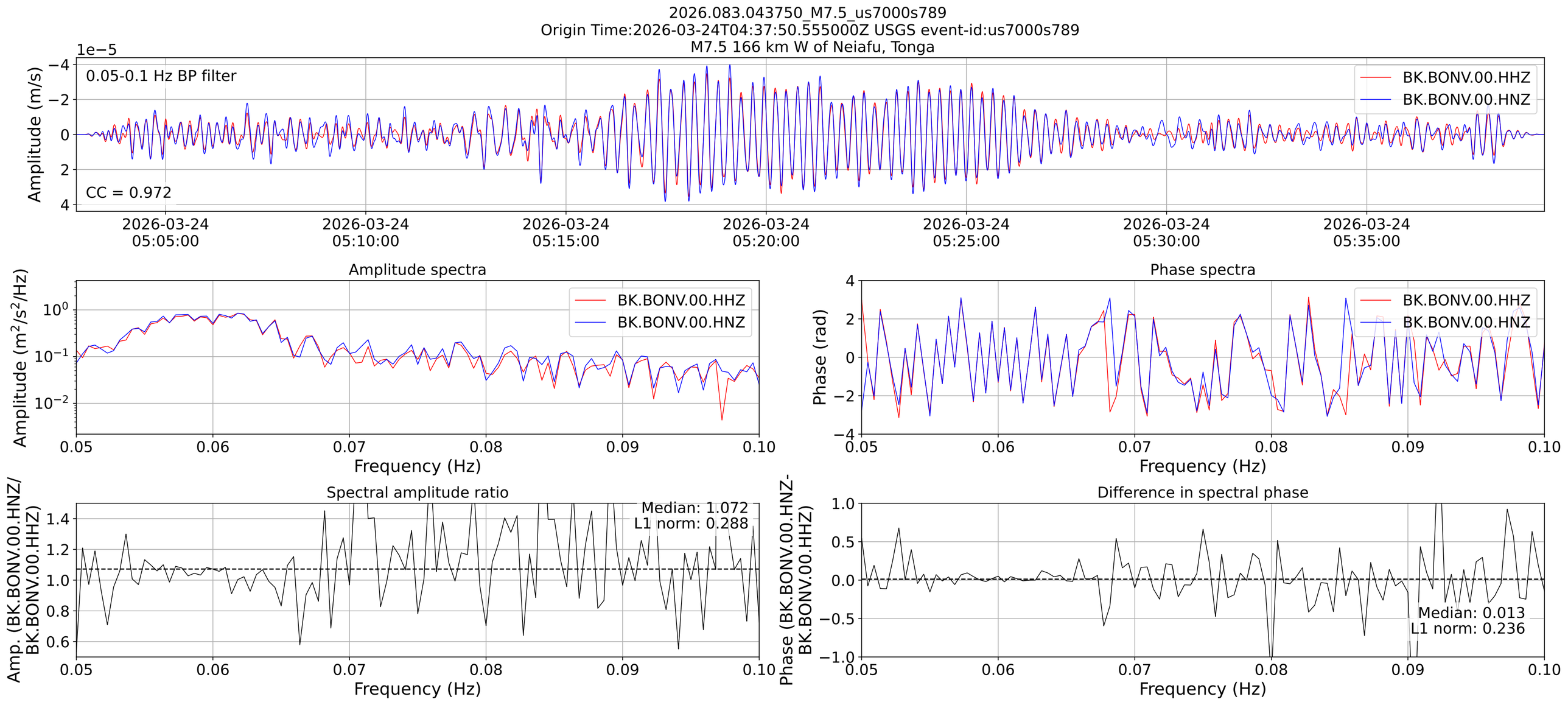

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
Amplitude (m/s)
BK.BLUE.00.HHE
BK.BLUE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNE/ BK.BLUE.00.HHE)
Median: 1.025
L1 norm: 0.259
Difference in spectral phase
Phase (BK.BLUE.00.HNE- BK.BLUE.00.HHE)
Median: 0.011
L1 norm: 0.246

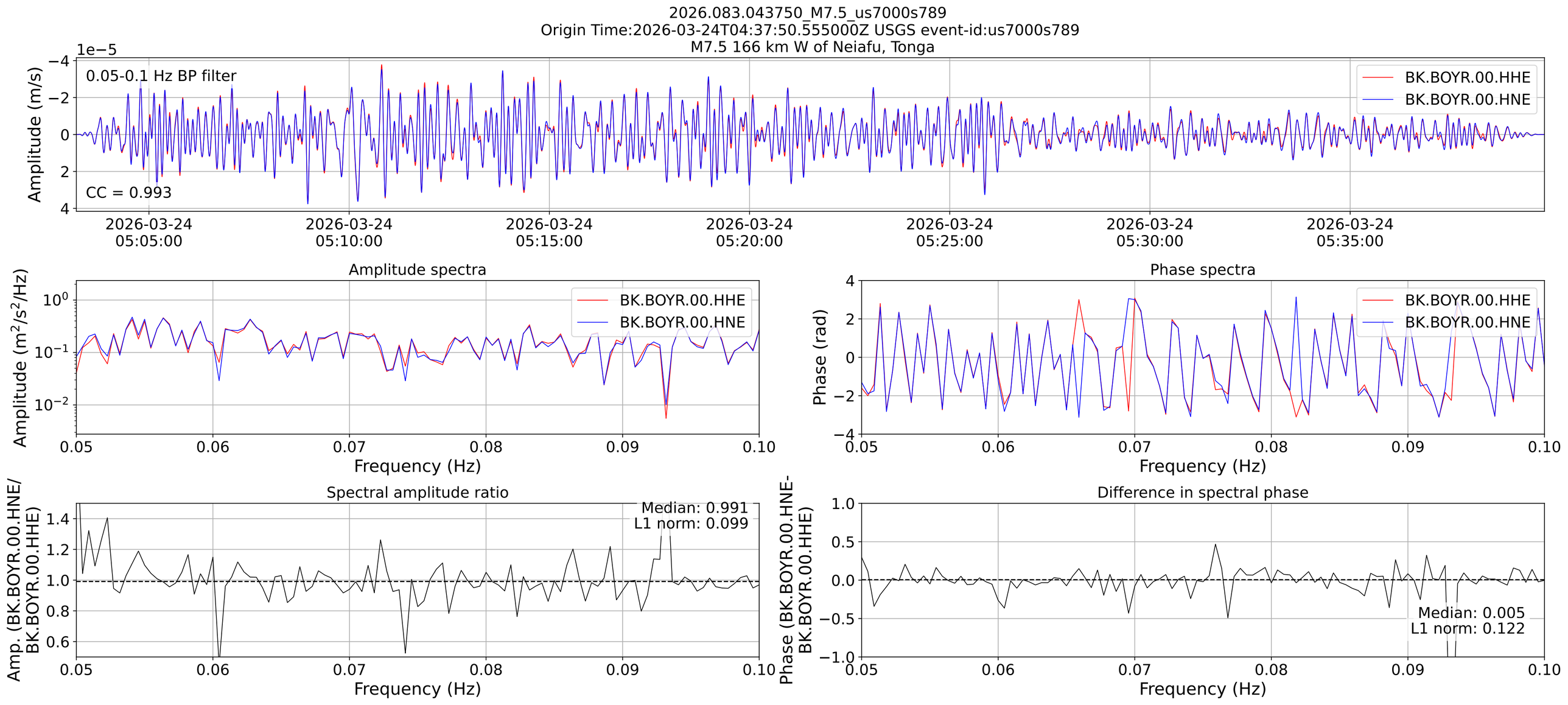

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.BLUE.00.HHN
BK.BLUE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNN/ BK.BLUE.00.HHN)
Median: 0.975
L1 norm: 0.209
Difference in spectral phase
Phase (BK.BLUE.00.HNN- BK.BLUE.00.HHN)
Median: 0.019
L1 norm: 0.271

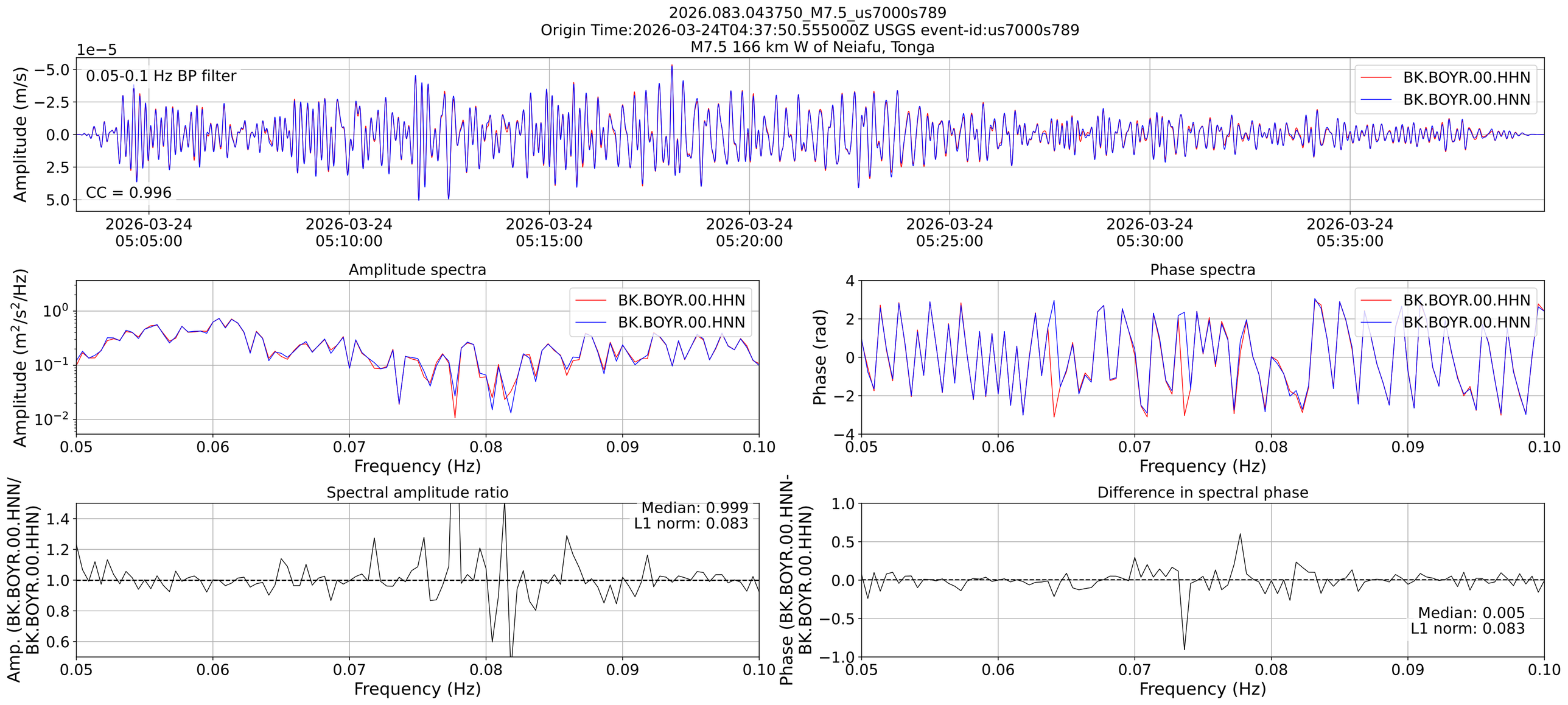

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.BLUE.00.HHZ
BK.BLUE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BLUE.00.HNZ/ BK.BLUE.00.HHZ)
Median: 1.014
L1 norm: 0.181
Difference in spectral phase
Phase (BK.BLUE.00.HNZ- BK.BLUE.00.HHZ)
Median: -0.002
L1 norm: 0.173

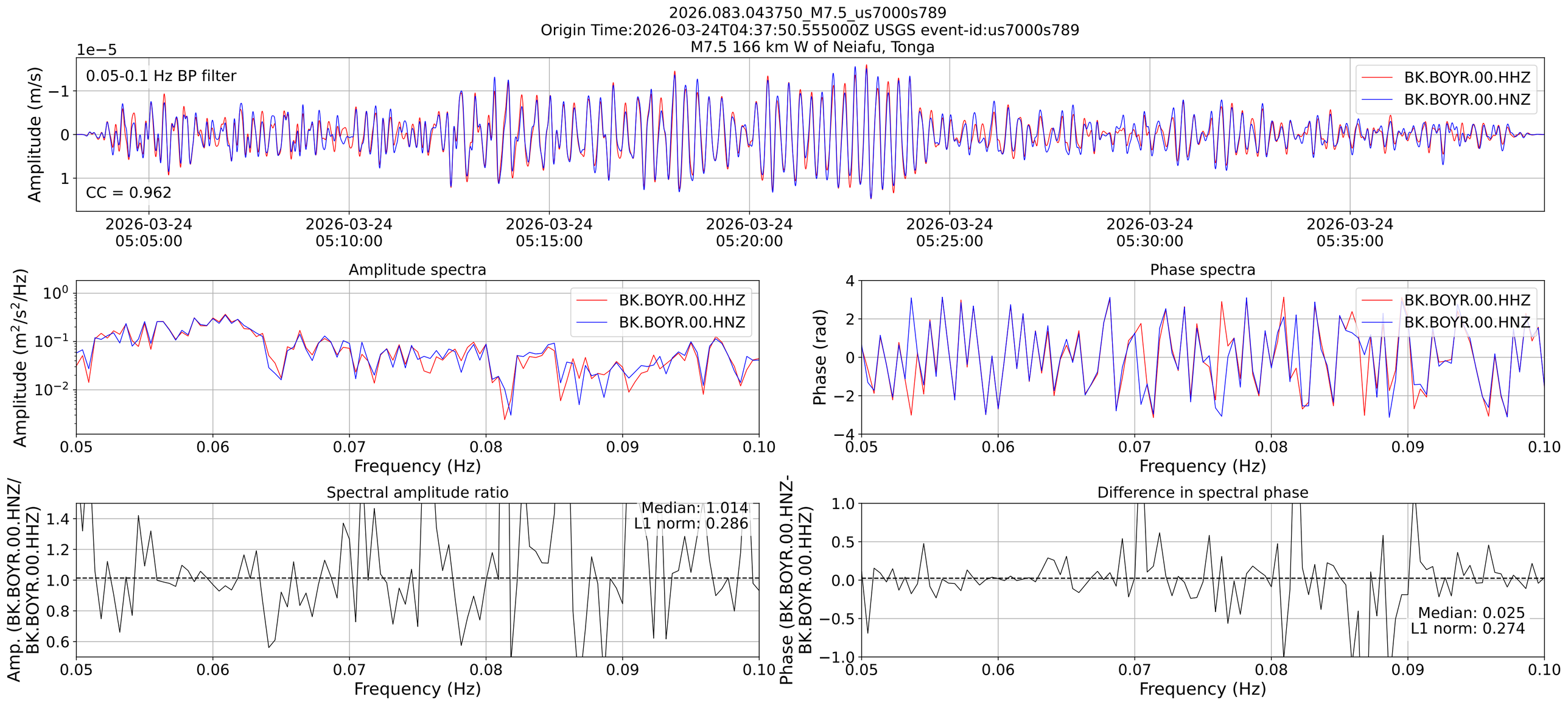

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.BONV.00.HHE
BK.BONV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNE/ BK.BONV.00.HHE)
Median: 1.049
L1 norm: 0.185
Difference in spectral phase
Phase (BK.BONV.00.HNE- BK.BONV.00.HHE)
Median: -0.011
L1 norm: 0.202

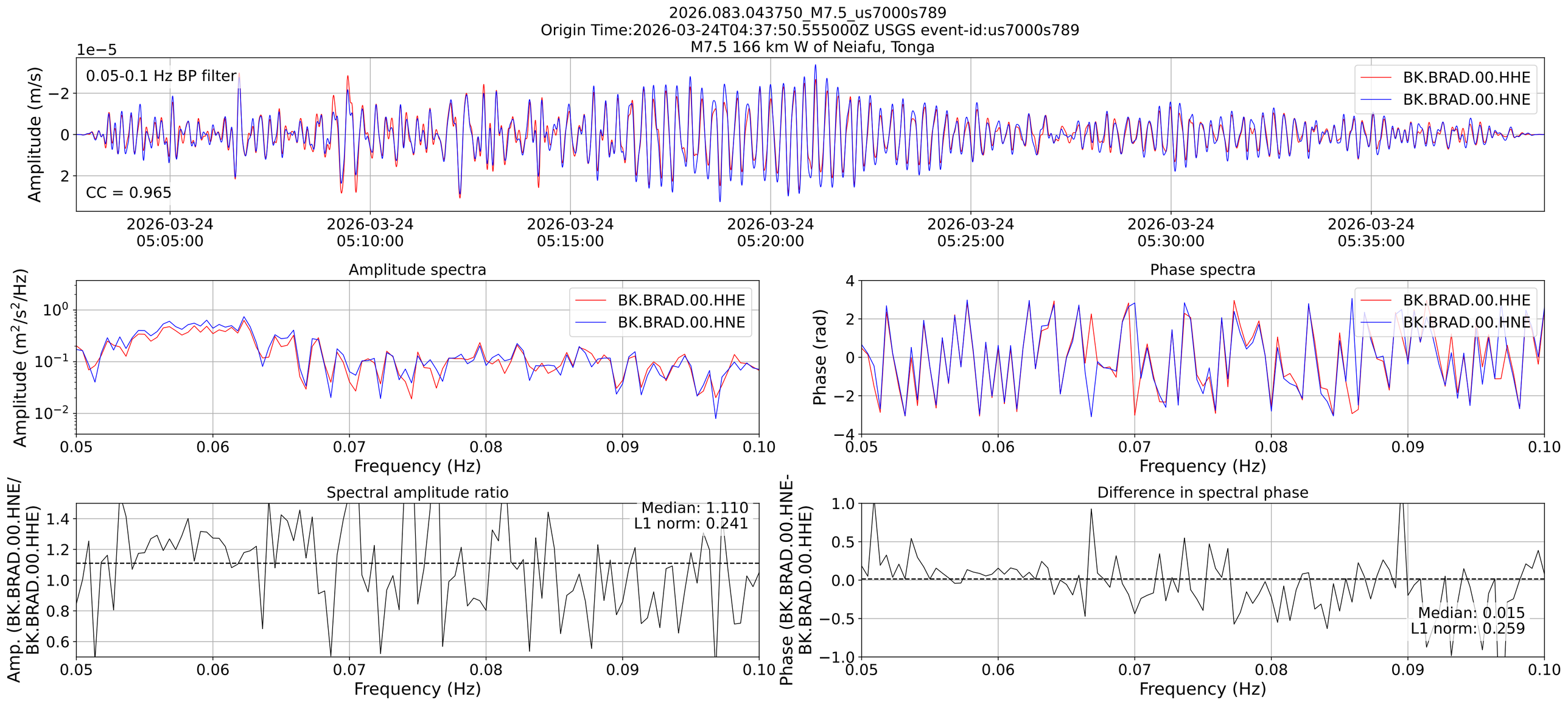

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.BONV.00.HHN
BK.BONV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNN/ BK.BONV.00.HHN)
Median: 1.038
L1 norm: 0.190
Difference in spectral phase
Phase (BK.BONV.00.HNN- BK.BONV.00.HHN)
Median: 0.003
L1 norm: 0.136

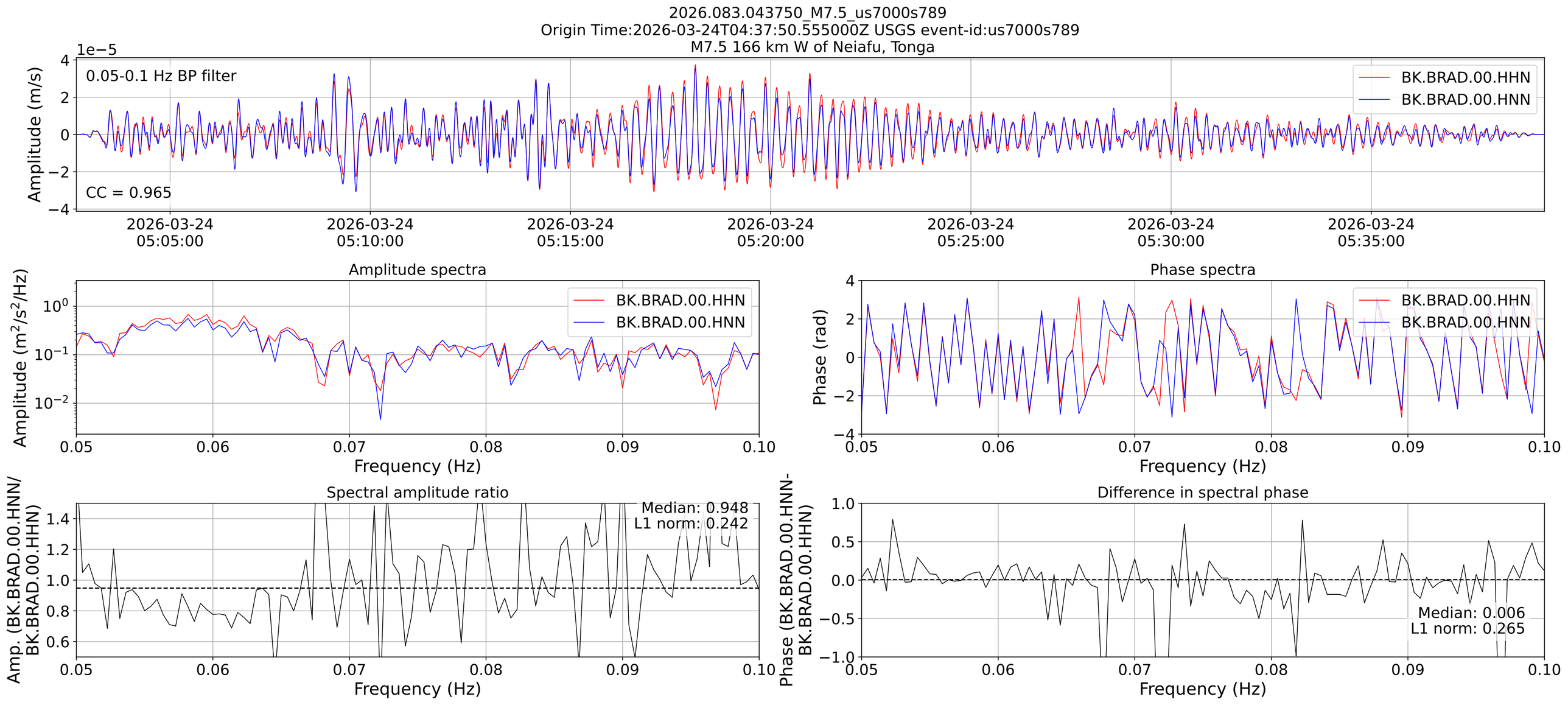

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.972
BK.BONV.00.HHZ
BK.BONV.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BONV.00.HNZ/ BK.BONV.00.HHZ)
Median: 1.072
L1 norm: 0.288
Difference in spectral phase
Phase (BK.BONV.00.HNZ-BK.BONV.00.HHZ)
Median: 0.013
L1 norm: 0.236

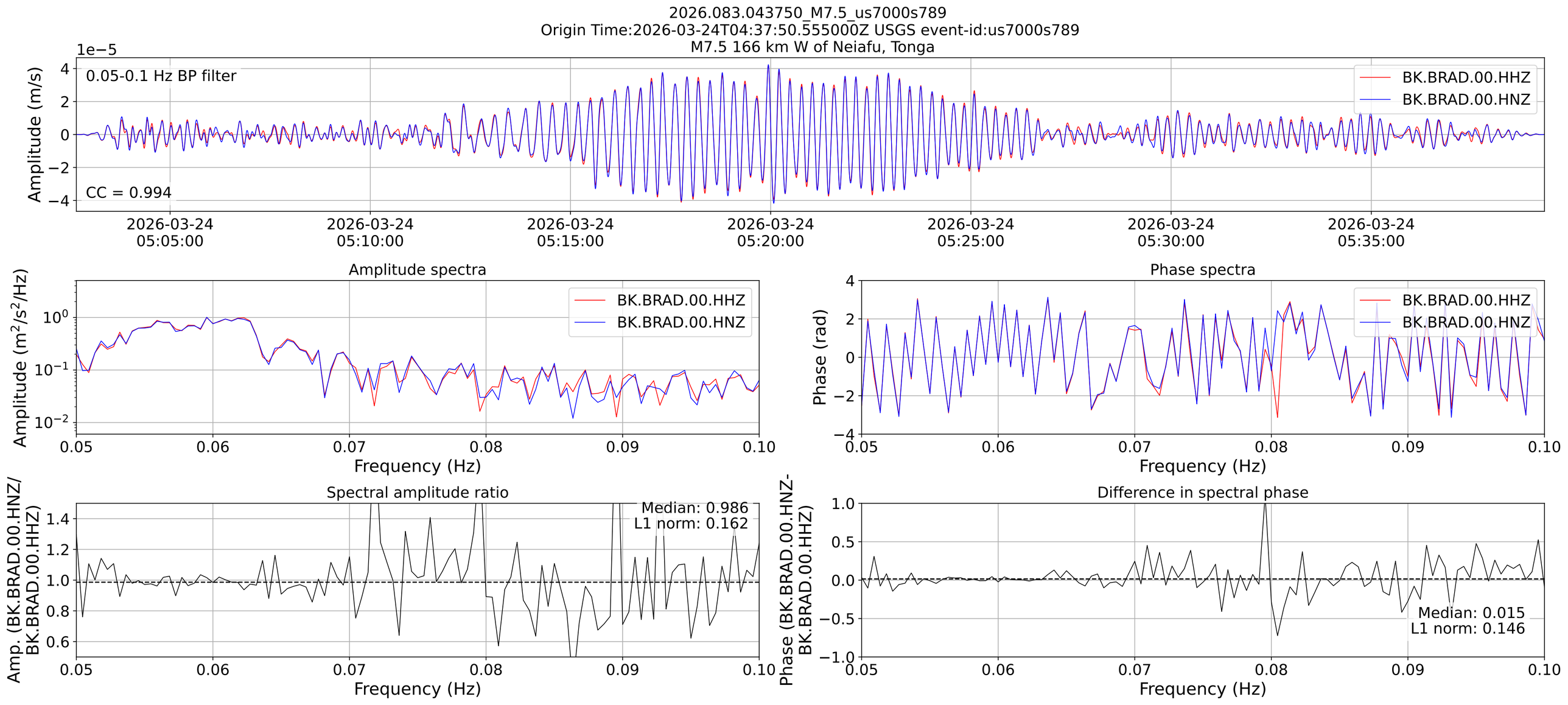

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.BOYR.00.HHE
BK.BOYR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNE/ BK.BOYR.00.HHE)
Median: 0.991
L1 norm: 0.099
Difference in spectral phase
Phase (BK.BOYR.00.HNE- BK.BOYR.00.HHE)
Median: 0.005
L1 norm: 0.122

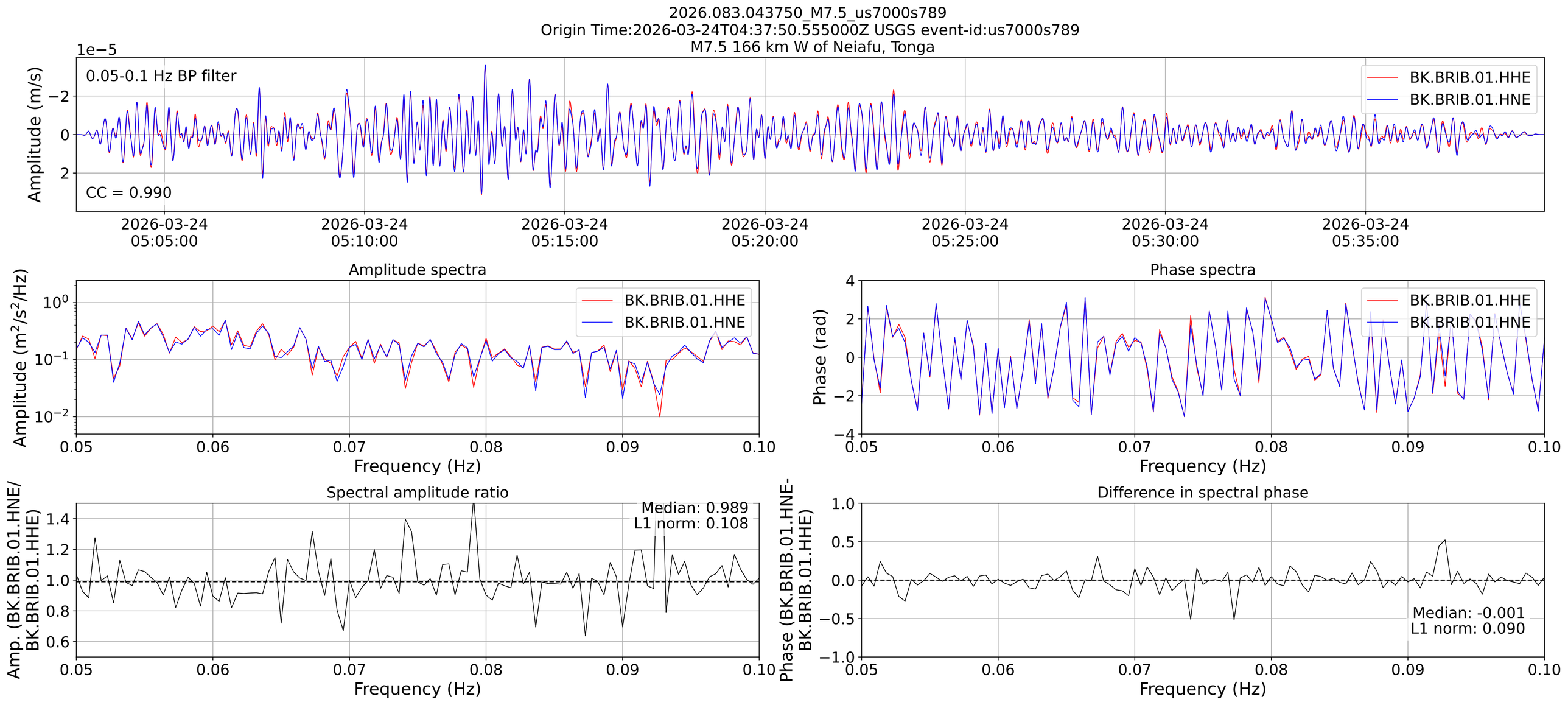

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.BOYR.00.HHN
BK.BOYR.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNN/ BK.BOYR.00.HHN)
Median: 0.999
L1 norm: 0.083
Difference in spectral phase
Phase (BK.BOYR.00.HNN- BK.BOYR.00.HHN)
Median: 0.005
L1 norm: 0.083

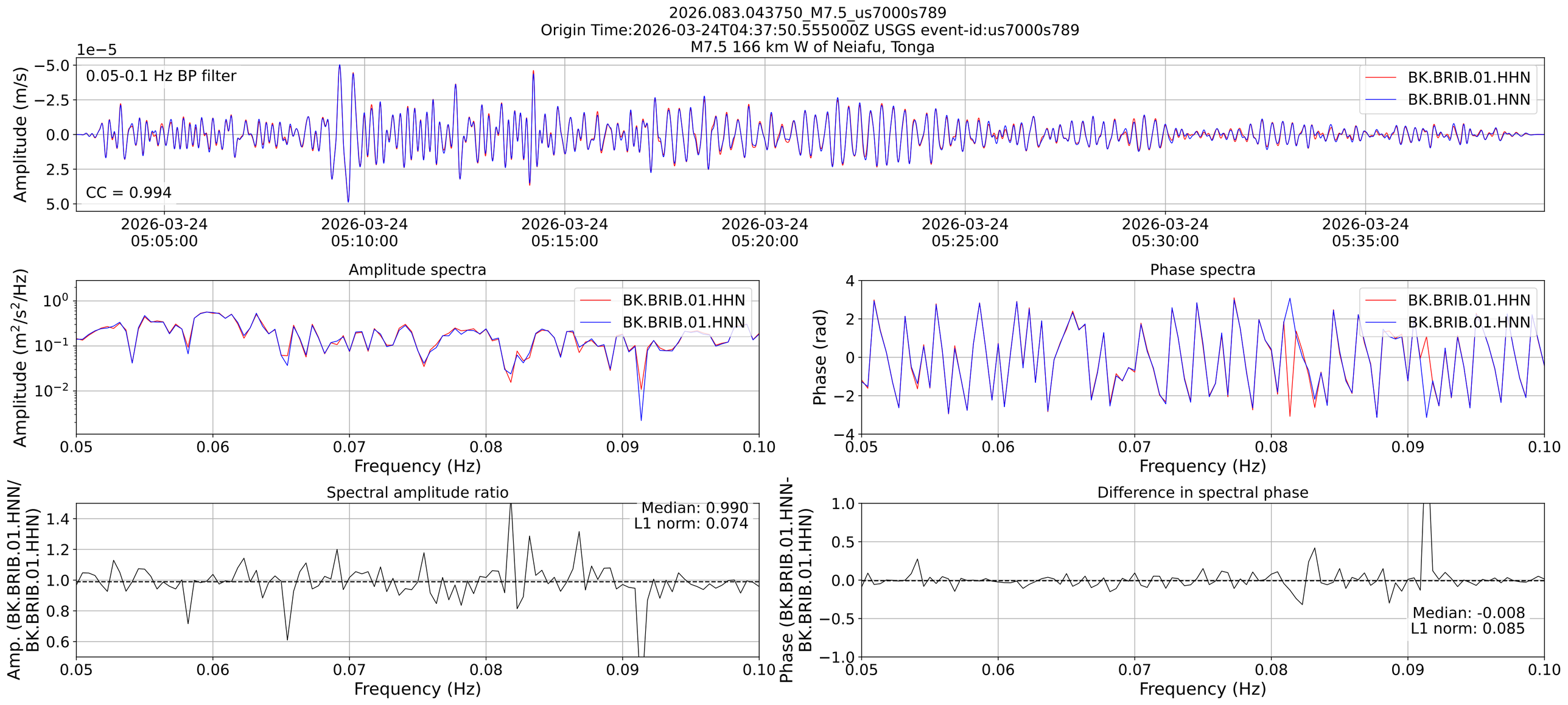

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.962
BK.BOYR.00.HHZ
BK.BOYR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BOYR.00.HNZ/ BK.BOYR.00.HHZ)
Median: 1.014
L1 norm: 0.286
Difference in spectral phase
Phase (BK.BOYR.00.HNZ- BK.BOYR.00.HHZ)
Median: 0.025
L1 norm: 0.274

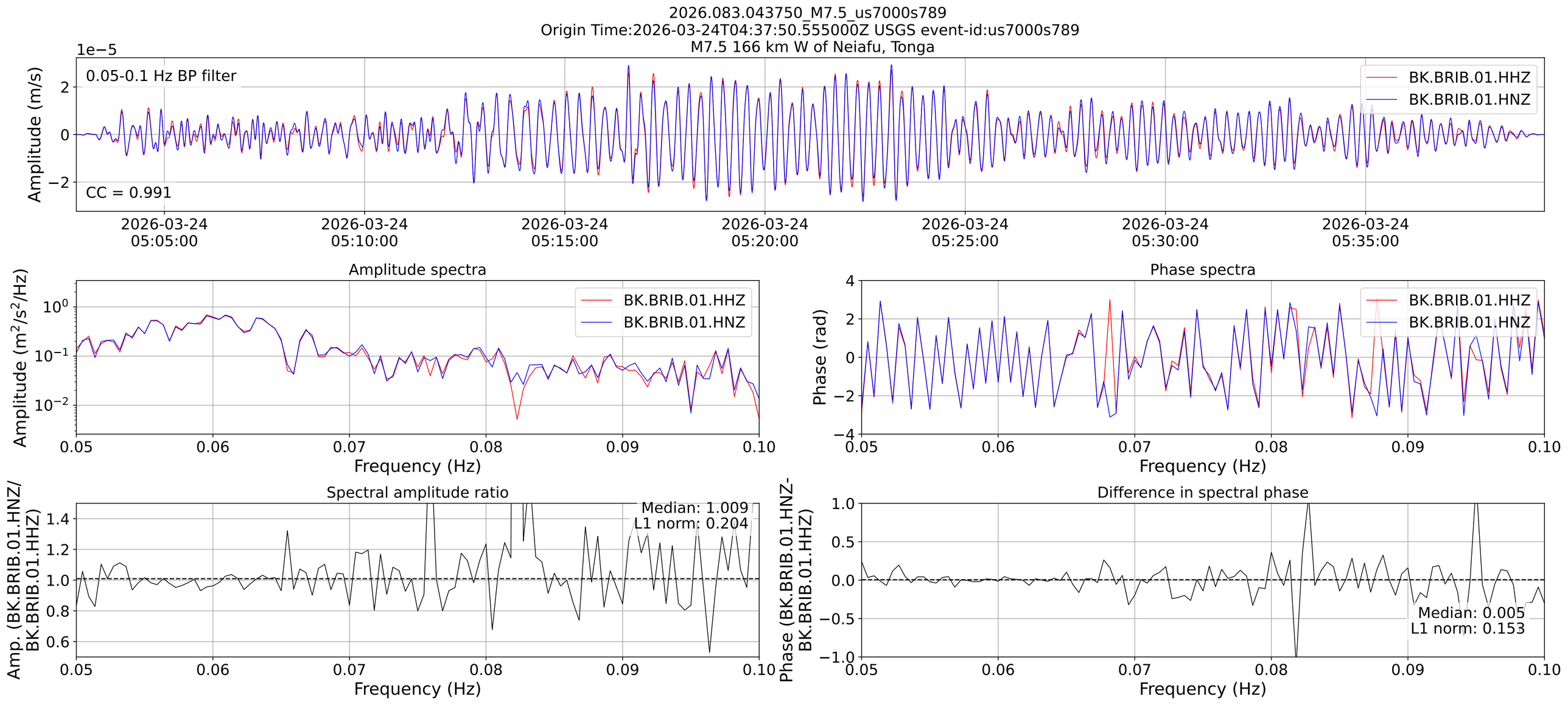

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.965
Amplitude (m/s)
BK.BRAD.00.HHE
BK.BRAD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNE/ BK.BRAD.00.HHE)
Median: 1.110
L1 norm: 0.241
Difference in spectral phase
Phase (BK.BRAD.00.HNE- BK.BRAD.00.HHE)
Median: 0.015
L1 norm: 0.259

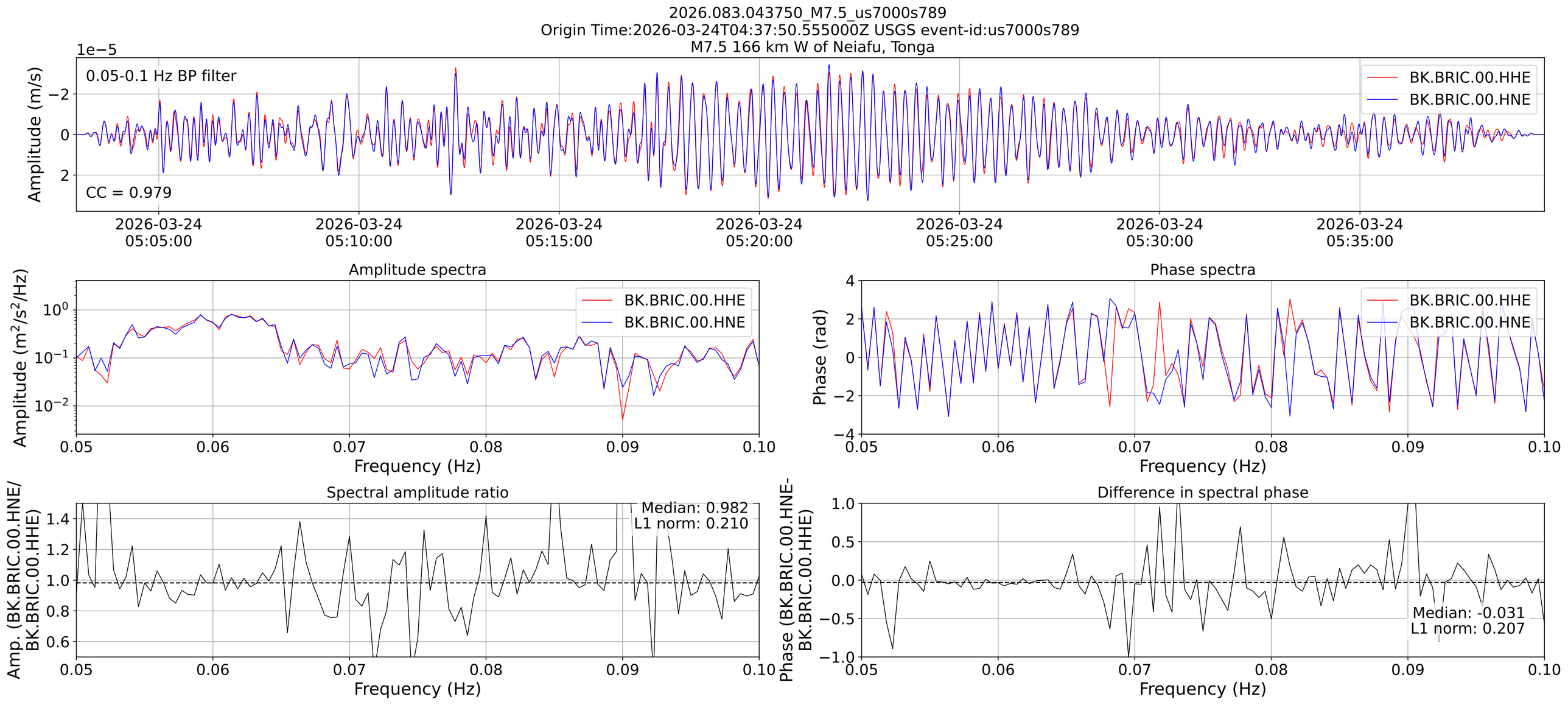

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.965
BK.BRAD.00.HHN
BK.BRAD.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNN/ BK.BRAD.00.HHN)
Median: 0.948
L1 norm: 0.242
Difference in spectral phase
Phase (BK.BRAD.00.HNN- BK.BRAD.00.HHN)
Median: 0.006
L1 norm: 0.265

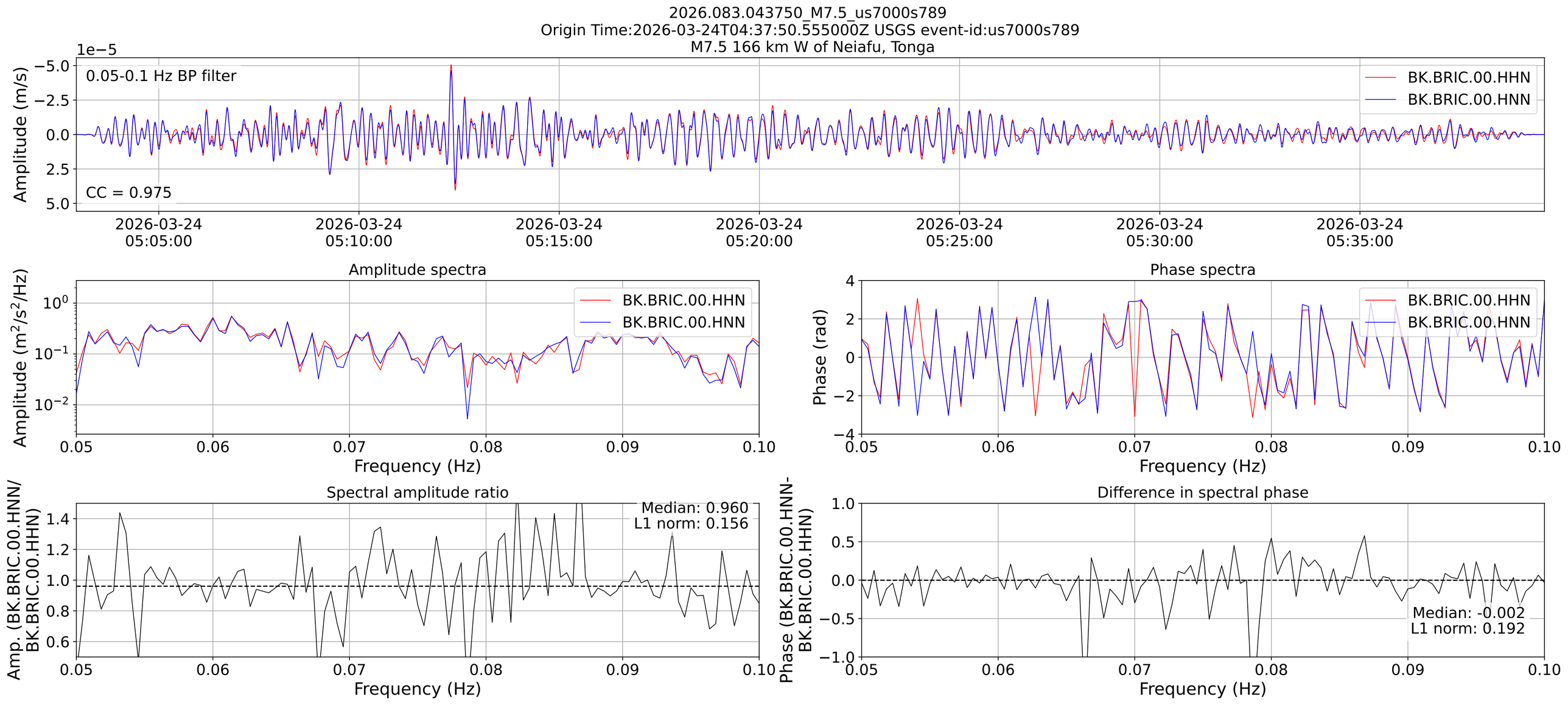

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.BRAD.00.HHZ
BK.BRAD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRAD.00.HNZ/ BK.BRAD.00.HHZ)
Median: 0.986
L1 norm: 0.162
Difference in spectral phase
Phase (BK.BRAD.00.HNZ- BK.BRAD.00.HHZ)
Median: 0.015
L1 norm: 0.146

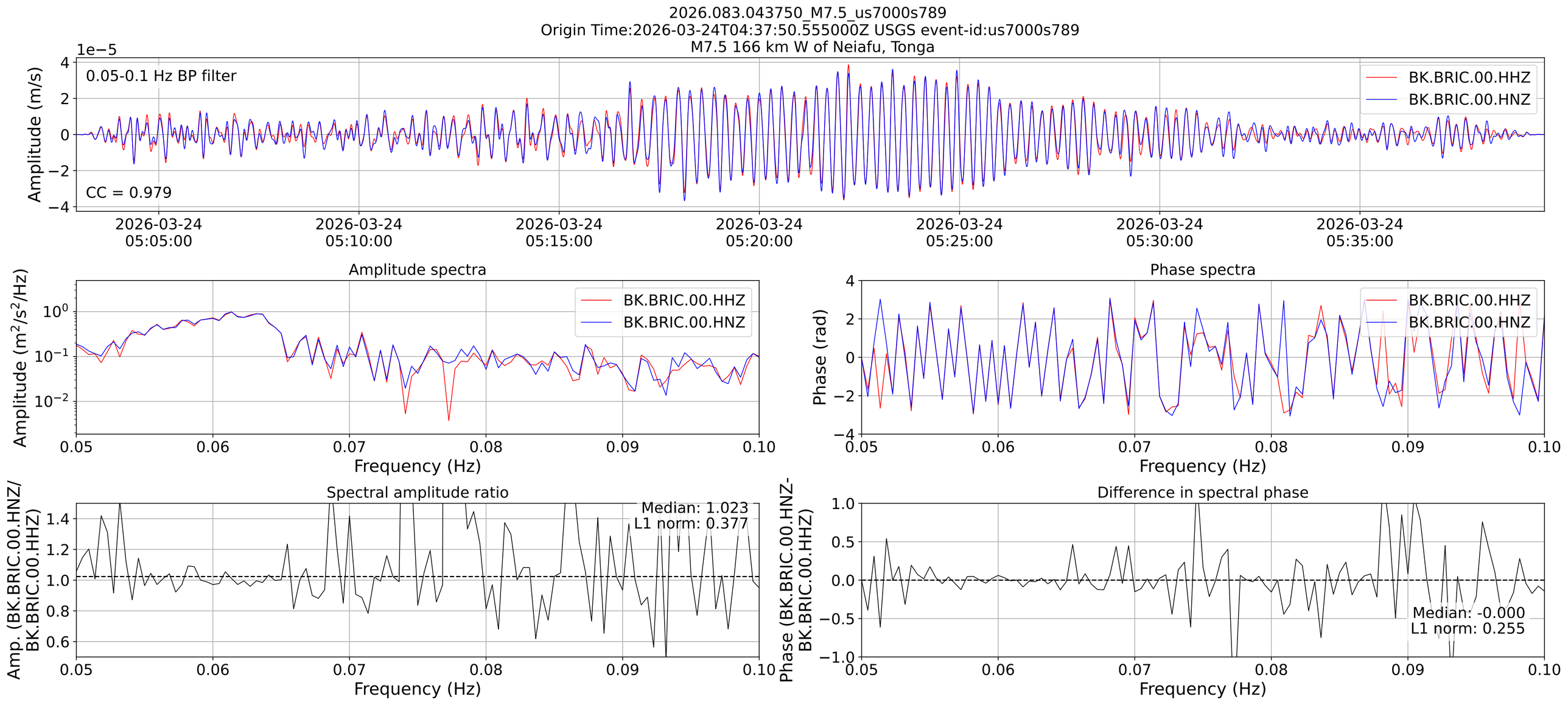

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.BRIB.01.HHE
BK.BRIB.01.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNE/ BK.BRIB.01.HHE)
Median: 0.989
L1 norm: 0.108
Difference in spectral phase
Phase (BK.BRIB.01.HNE- BK.BRIB.01.HHE)
Median: -0.001
L1 norm: 0.090

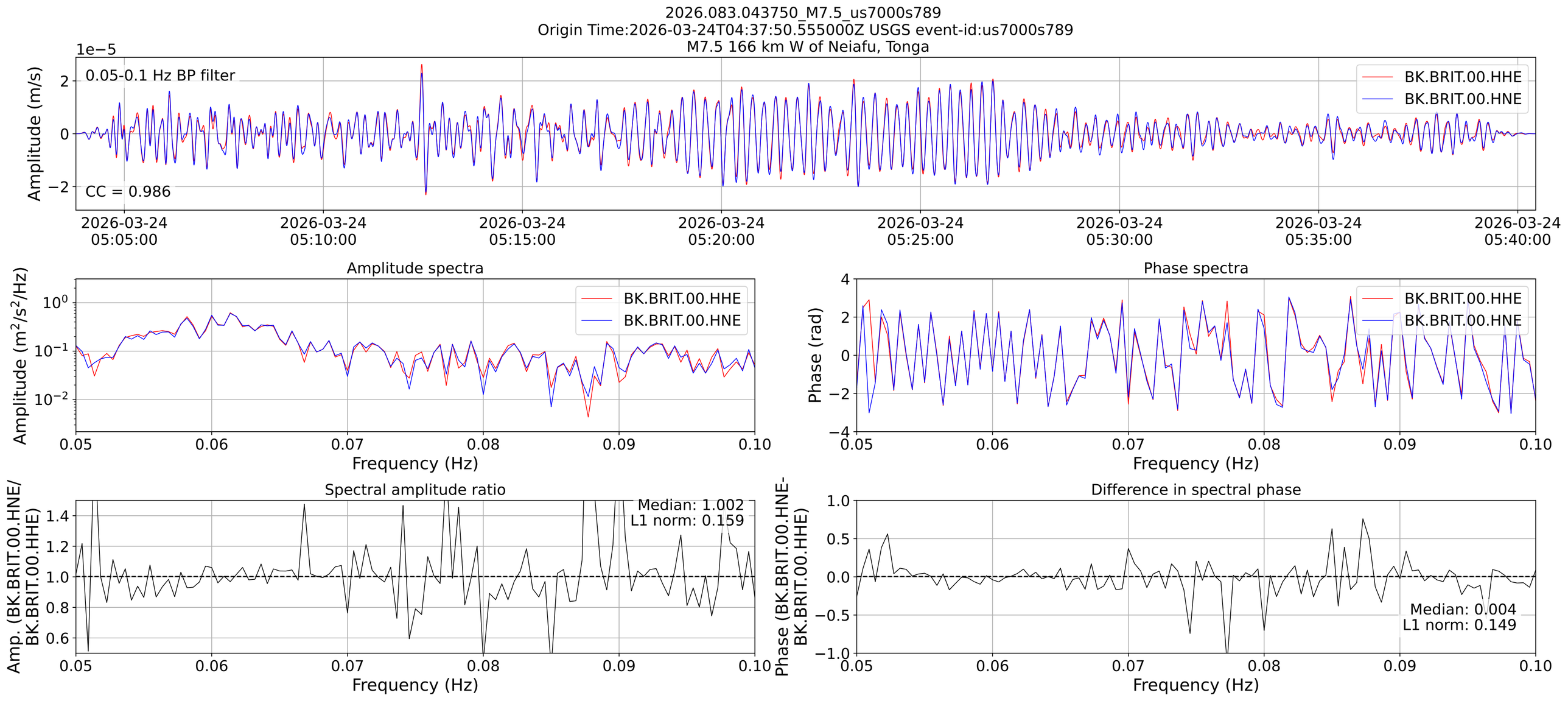

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
BK.BRIB.01.HHN
BK.BRIB.01.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNN/ BK.BRIB.01.HHN)
Median: 0.990
L1 norm: 0.074
Difference in spectral phase
Phase (BK.BRIB.01.HNN- BK.BRIB.01.HHN)
Median: -0.008
L1 norm: 0.085

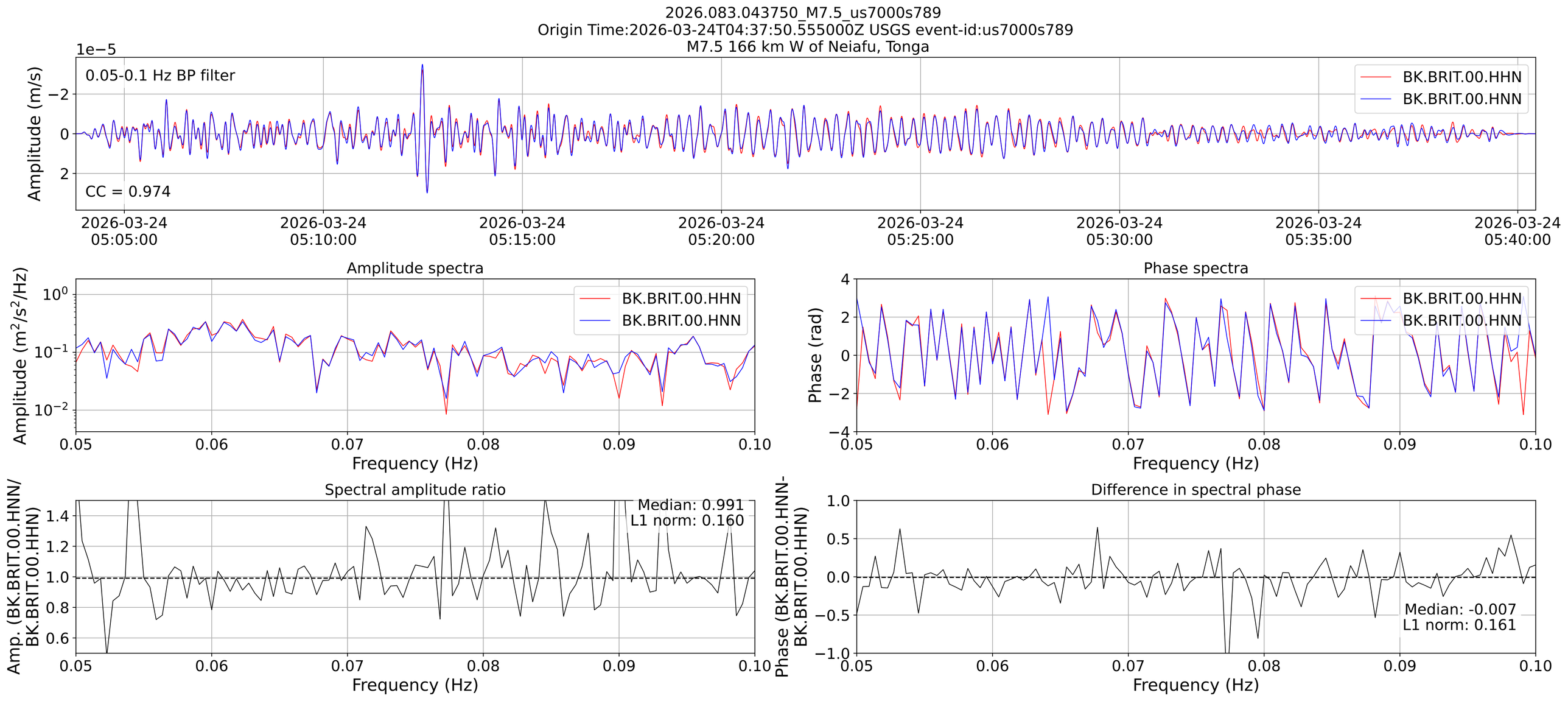

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.BRIB.01.HHZ
BK.BRIB.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIB.01.HNZ/ BK.BRIB.01.HHZ)
Median: 1.009
L1 norm: 0.204
Difference in spectral phase
Phase (BK.BRIB.01.HNZ- BK.BRIB.01.HHZ)
Median: 0.005
L1 norm: 0.153

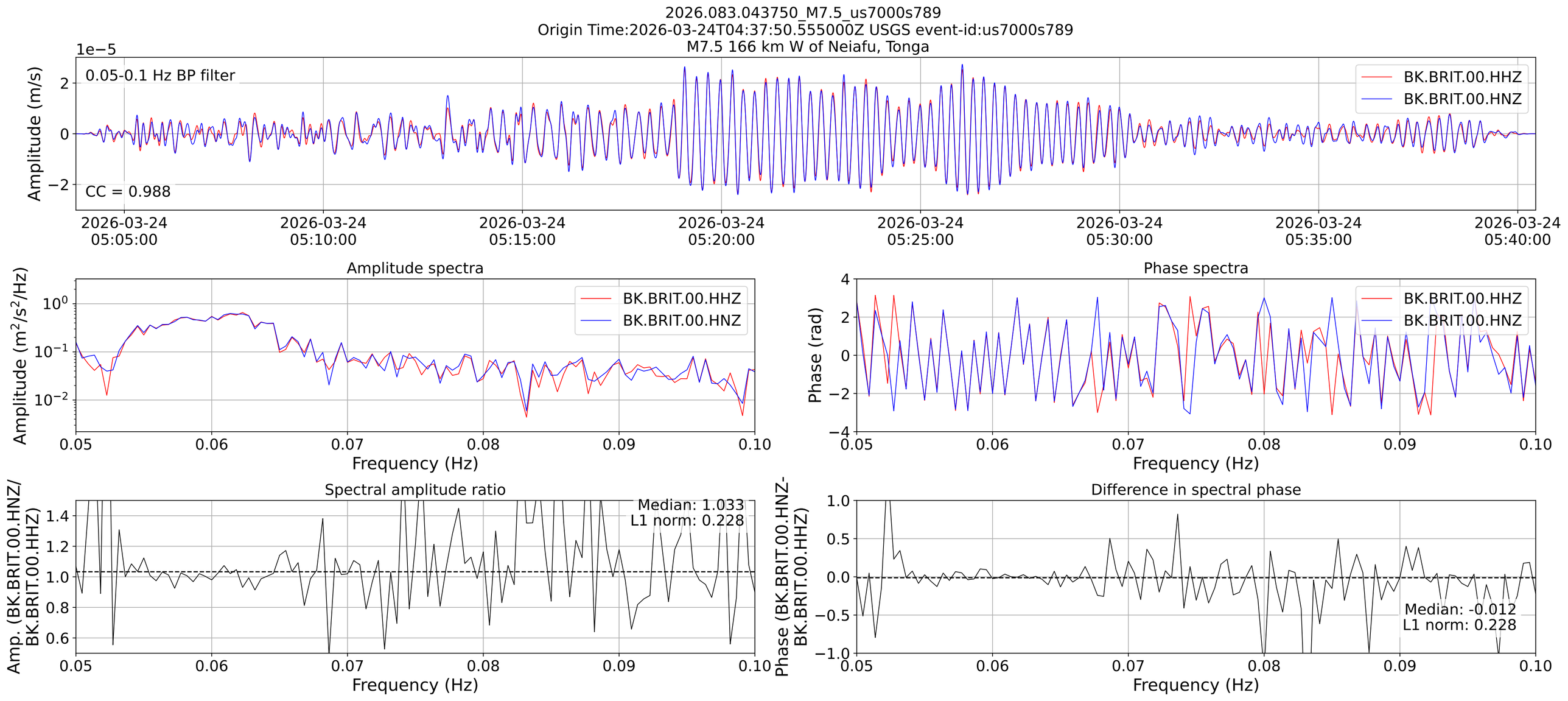

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.979
BK.BRIC.00.HHE
BK.BRIC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNE/ BK.BRIC.00.HHE)
Median: 0.982
L1 norm: 0.210
Difference in spectral phase
Phase (BK.BRIC.00.HNE- BK.BRIC.00.HHE)
Median: -0.031
L1 norm: 0.207

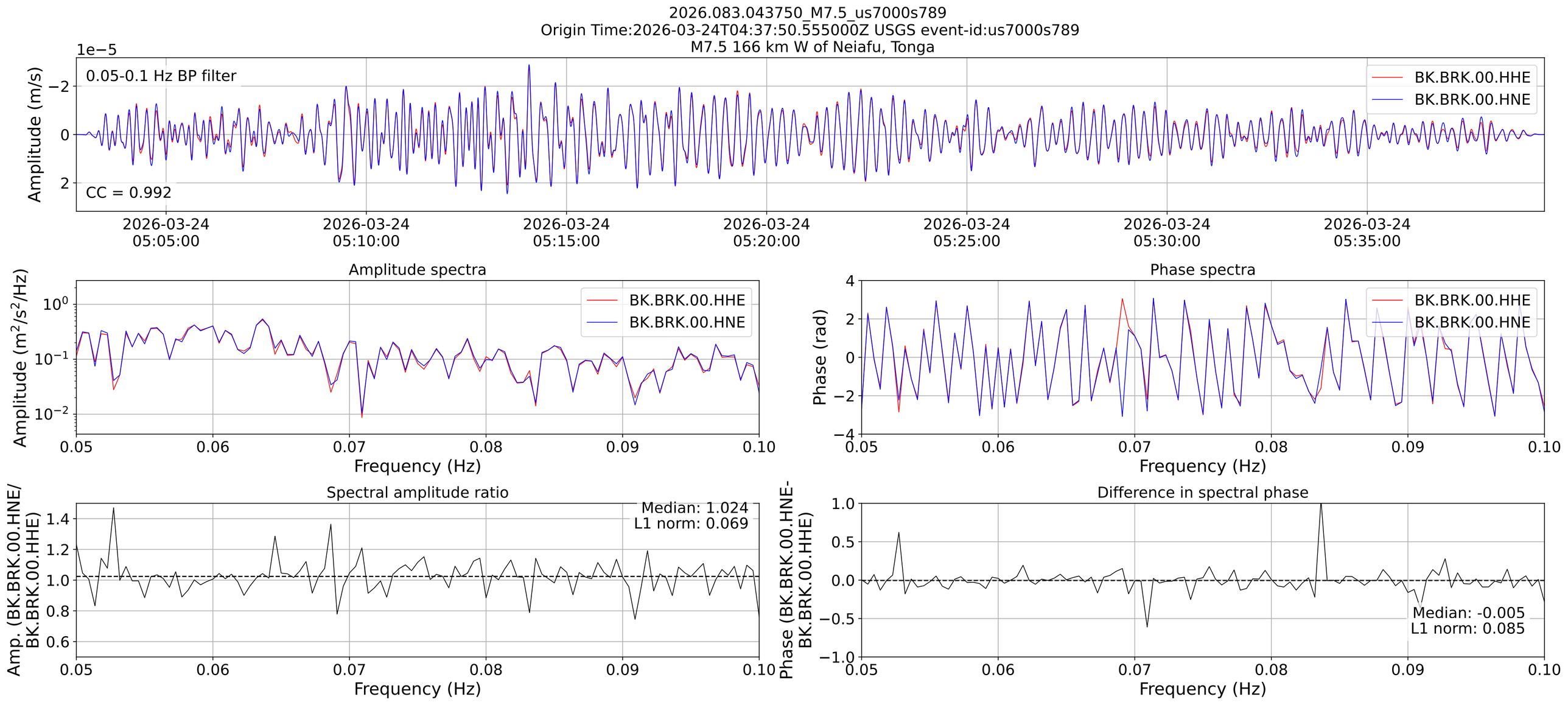

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.BRIC.00.HHN
BK.BRIC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNN/ BK.BRIC.00.HHN)
Median: 0.960
L1 norm: 0.156
Difference in spectral phase
Phase (BK.BRIC.00.HNN- BK.BRIC.00.HHN)
Median: -0.002
L1 norm: 0.192

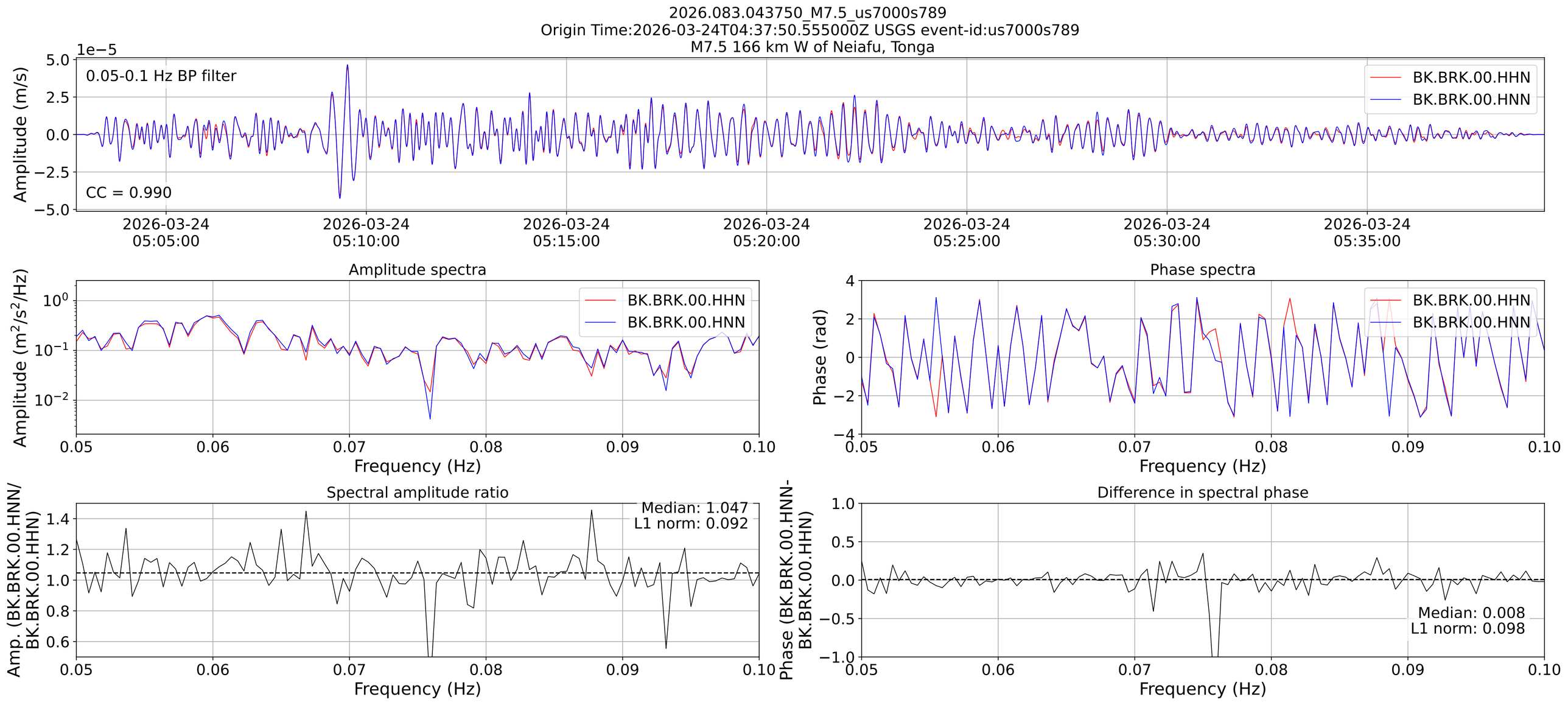

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.BRIC.00.HHZ
BK.BRIC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIC.00.HNZ/ BK.BRIC.00.HHZ)
Median: 1.023
L1 norm: 0.377
Difference in spectral phase
Phase (BK.BRIC.00.HNZ- BK.BRIC.00.HHZ)
Median: -0.000
L1 norm: 0.255

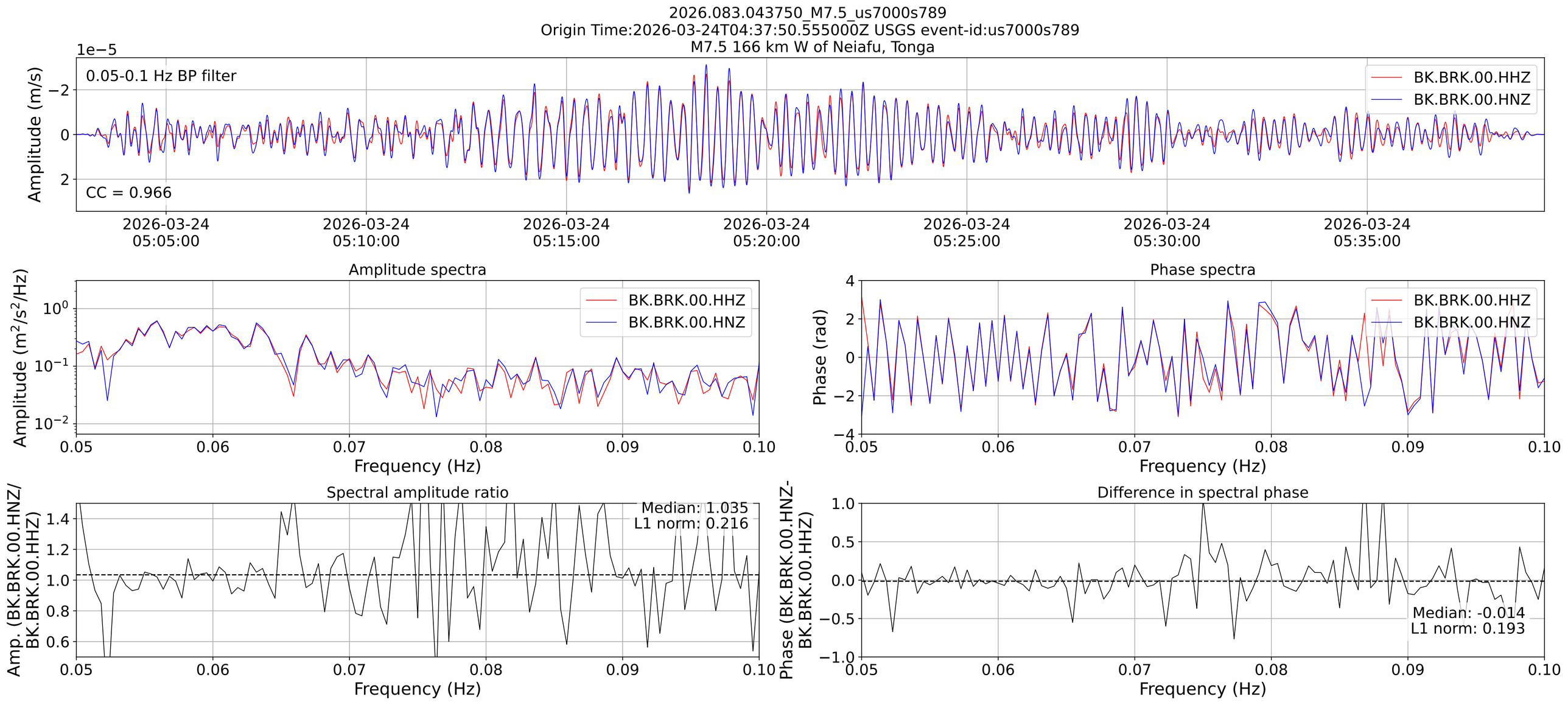

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.BRIT.00.HHE
BK.BRIT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIT.00.HNE/ BK.BRIT.00.HHE)
Median: 1.002
L1 norm: 0.159
Difference in spectral phase
Phase (BK.BRIT.00.HNE- BK.BRIT.00.HHE)
Median: 0.004
L1 norm: 0.149

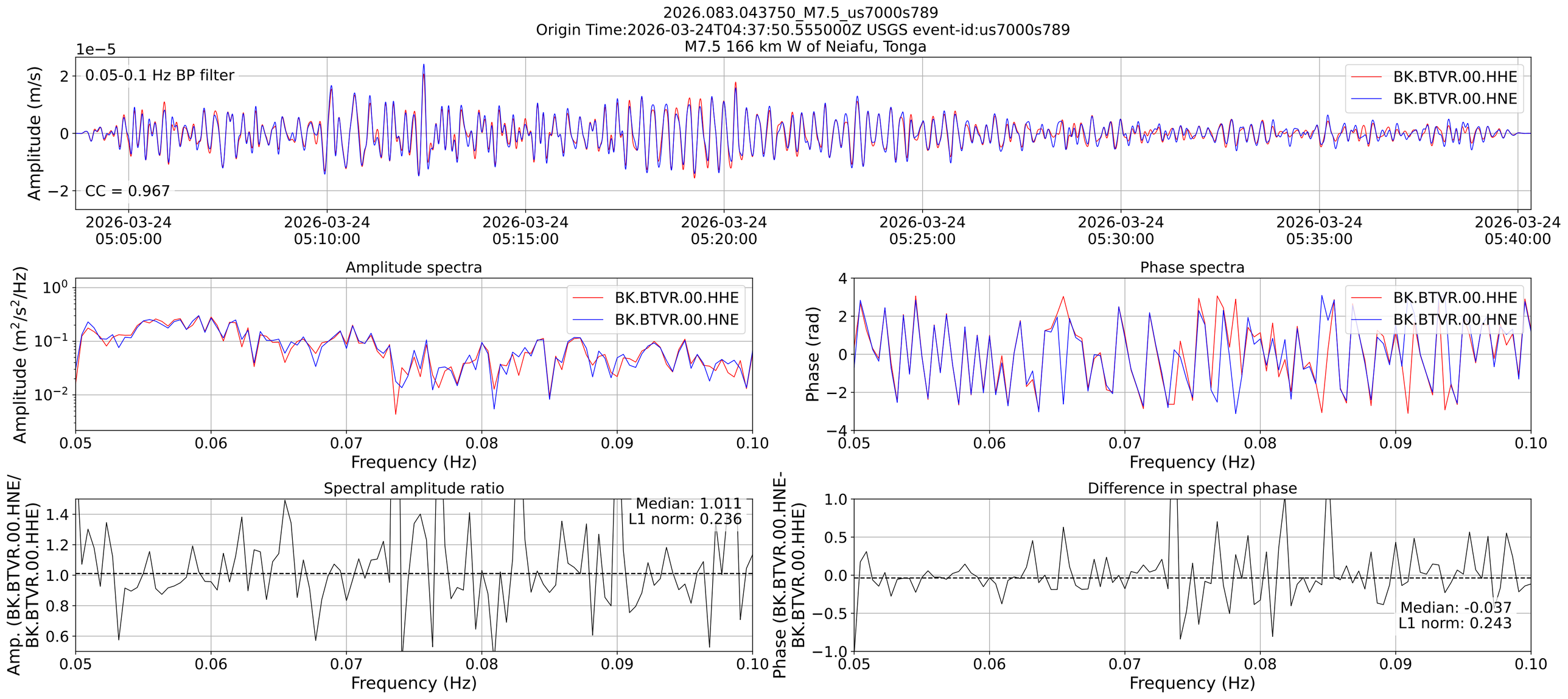

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.974
Amplitude (m/s)
BK.BRIT.00.HHN
BK.BRIT.00.HHN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.BRIT.00.HNN/ BK.BRIT.00.HHN)
Median: 0.991
L1 norm: 0.160
Frequency (Hz)
Difference in spectral phase
Phase (BK.BRIT.00.HNN- BK.BRIT.00.HHN)
Median: -0.007
L1 norm: 0.161
Frequency (Hz)

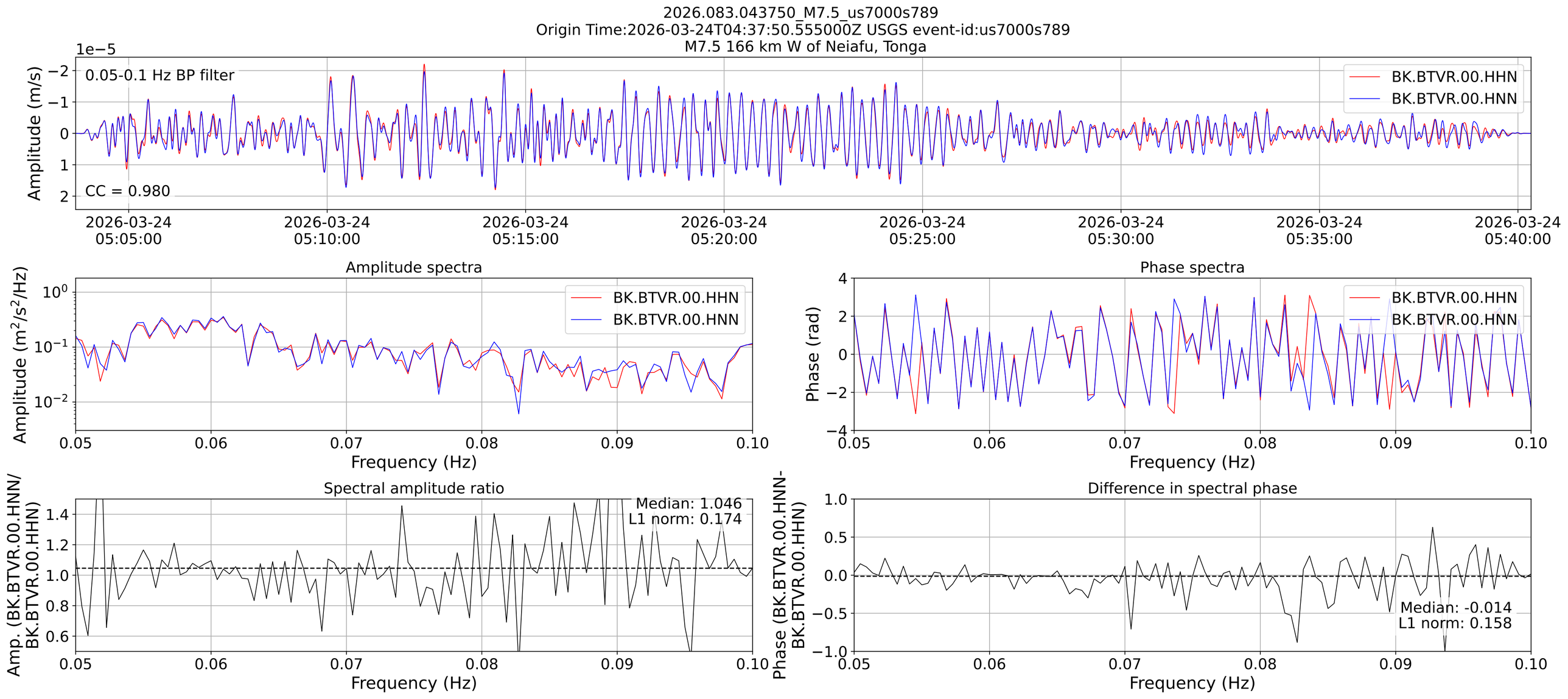

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.BRIT.00.HHZ
BK.BRIT.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRIT.00.HNZ/ BK.BRIT.00.HHZ)
Median: 1.033
L1 norm: 0.228
Difference in spectral phase
Phase (BK.BRIT.00.HNZ-BK.BRIT.00.HHZ)
Median: -0.012
L1 norm: 0.228

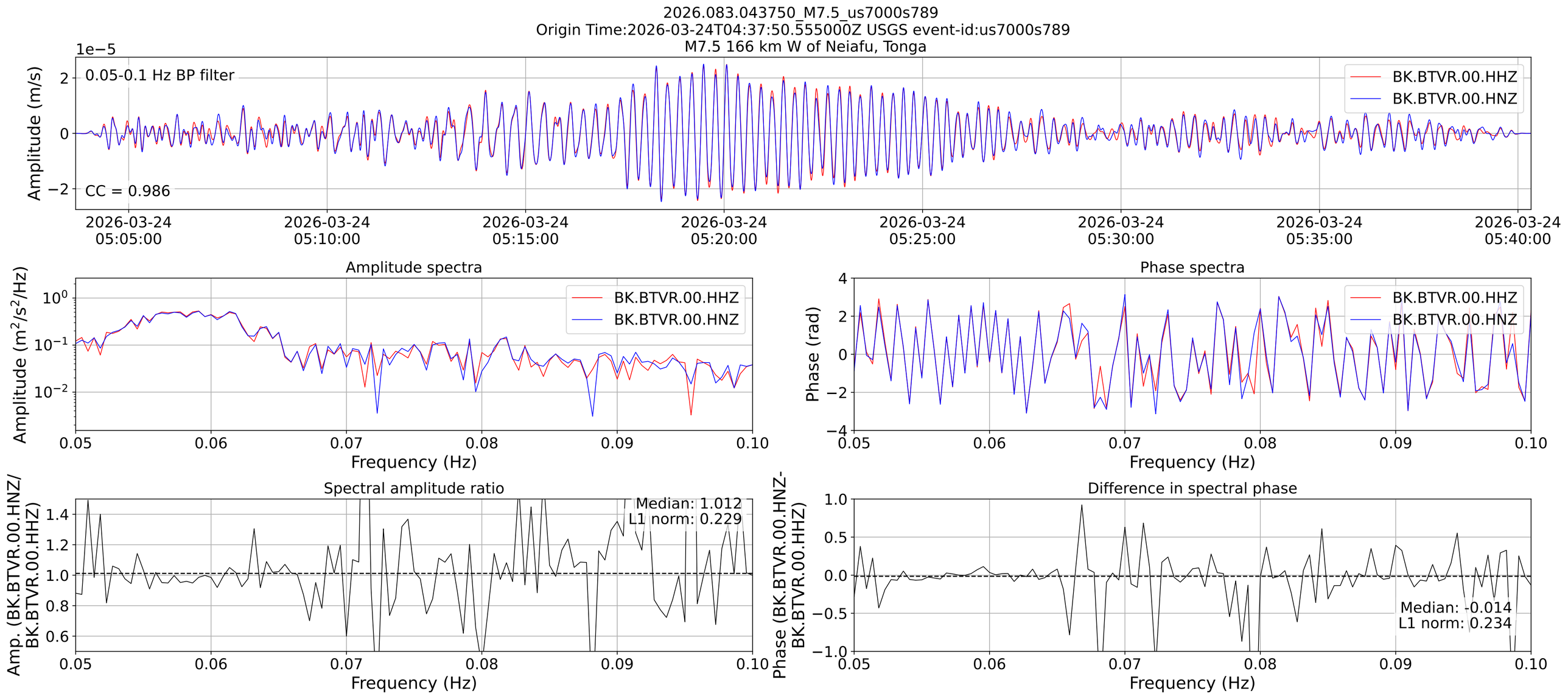

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.BRK.00.HHE
BK.BRK.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRK.00.HNE/ BK.BRK.00.HHE)
Median: 1.024
L1 norm: 0.069
Difference in spectral phase
Phase (BK.BRK.00.HNE- BK.BRK.00.HHE)
Median: -0.005
L1 norm: 0.085

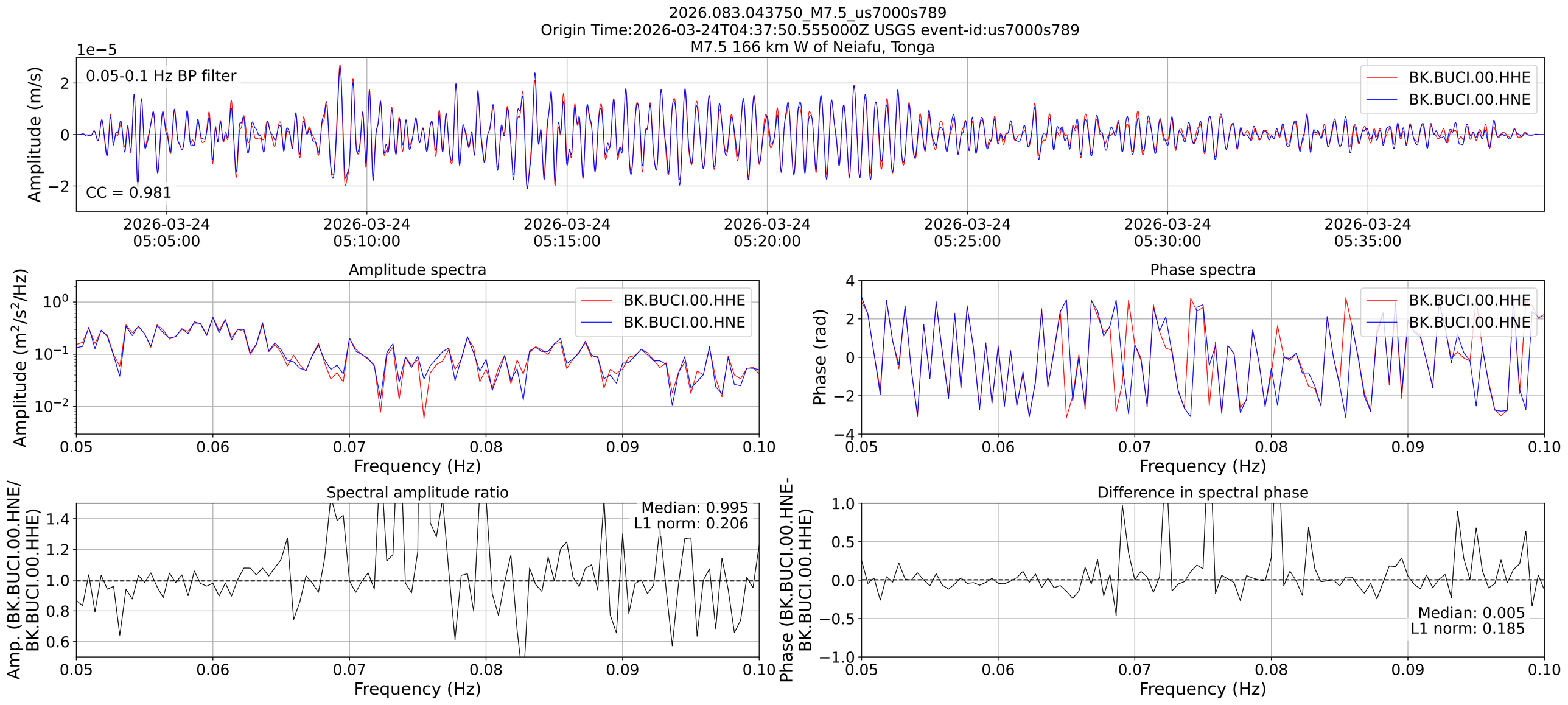

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
BK.BRK.00.HHN
BK.BRK.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.047
L1 norm: 0.092
Amp. (BK.BRK.00.HNN/ BK.BRK.00.HHN)
Difference in spectral phase
Phase (BK.BRK.00.HNN- BK.BRK.00.HHN)
Median: 0.008
L1 norm: 0.098

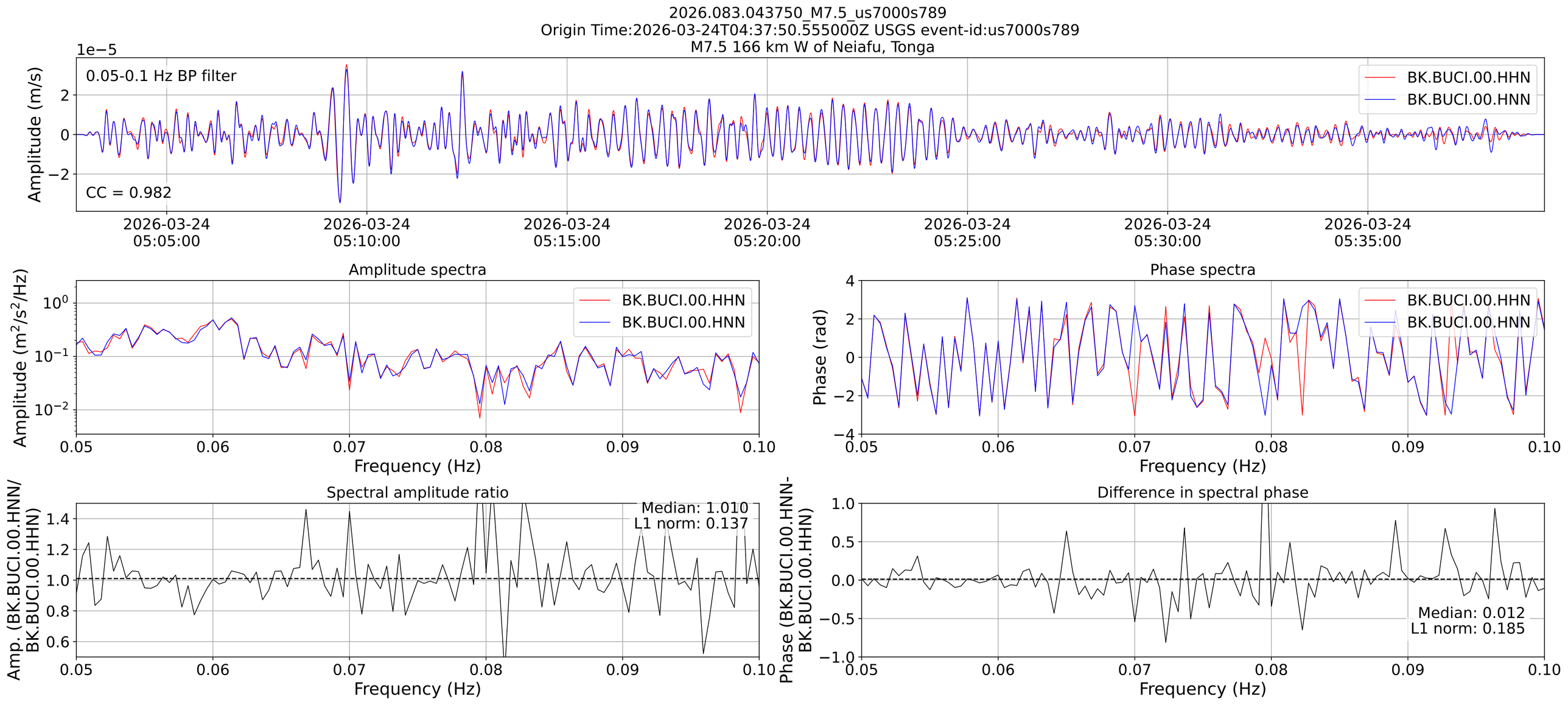

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.966
Amplitude (m/s)
BK.BRK.00.HHZ
BK.BRK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BRK.00.HNZ/ BK.BRK.00.HHZ)
Median: 1.035
L1 norm: 0.216
Difference in spectral phase
Phase (BK.BRK.00.HNZ- BK.BRK.00.HHZ)
Median: -0.014
L1 norm: 0.193

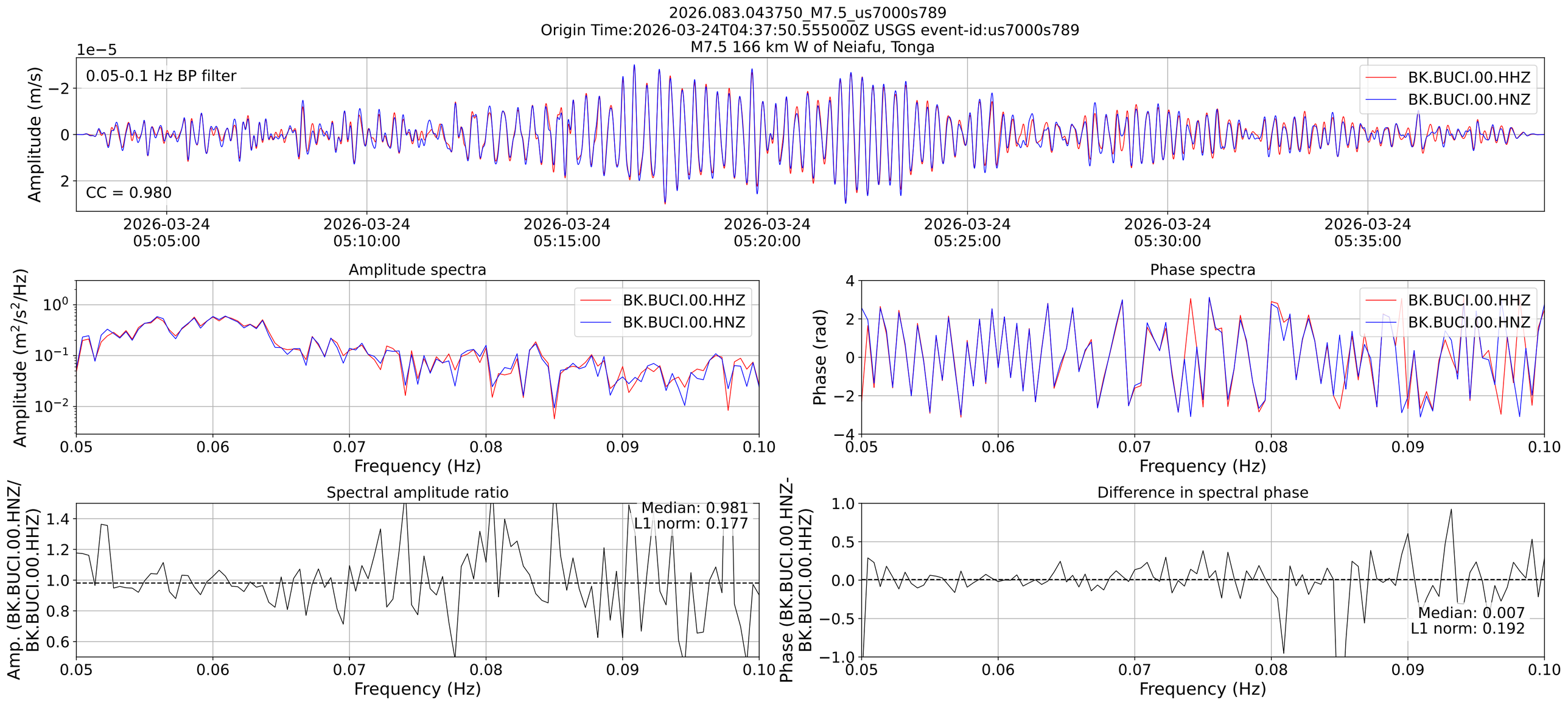

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.967
BK.BTVR.00.HHE
BK.BTVR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BTVR.00.HNE/ BK.BTVR.00.HHE)
Median: 1.011
L1 norm: 0.236
Difference in spectral phase
Phase (BK.BTVR.00.HNE- BK.BTVR.00.HHE)
Median: -0.037
L1 norm: 0.243

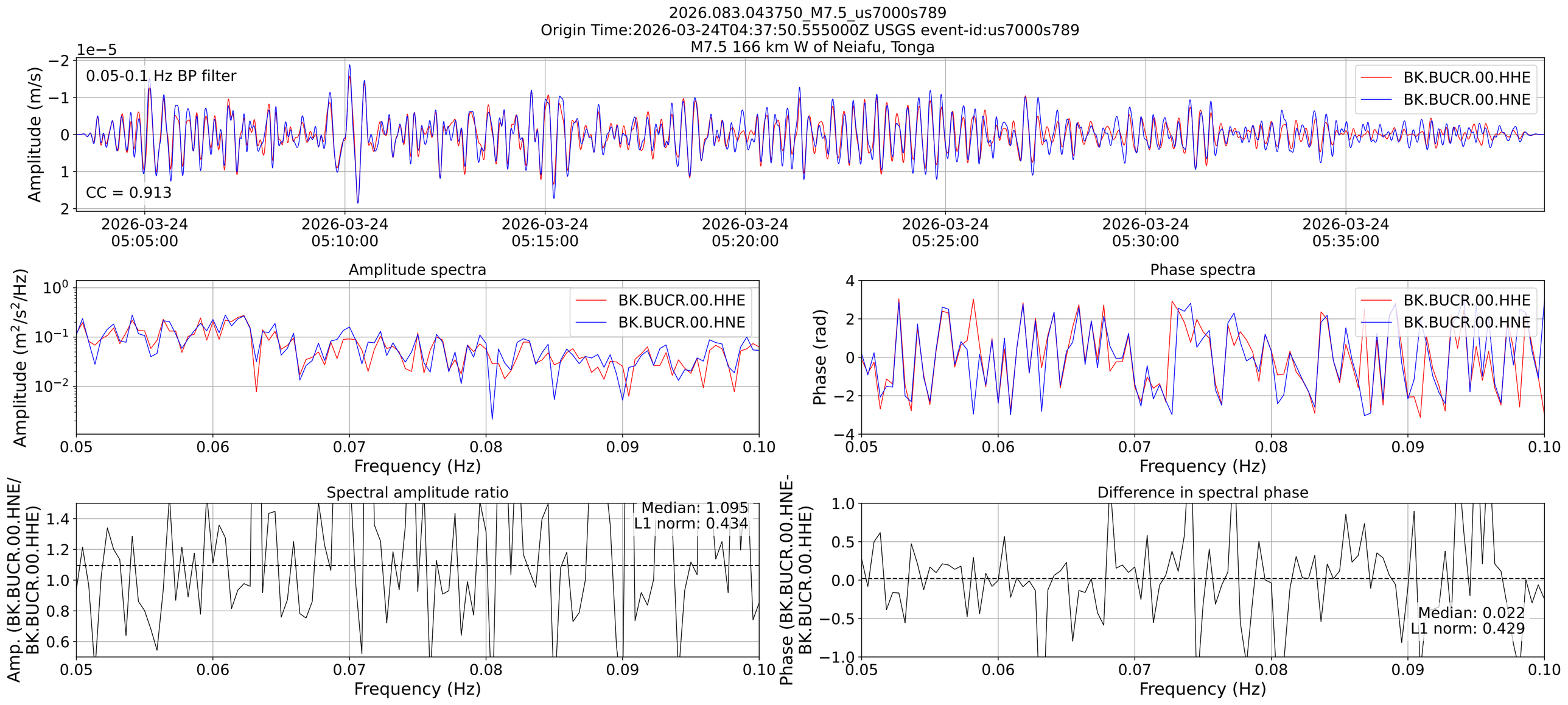

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.980
BK.BTVR.00.HHN
BK.BTVR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BTVR.00.HNN/ BK.BTVR.00.HHN)
Median: 1.046
L1 norm: 0.174
Difference in spectral phase
Phase (BK.BTVR.00.HNN- BK.BTVR.00.HHN)
Median: -0.014
L1 norm: 0.158

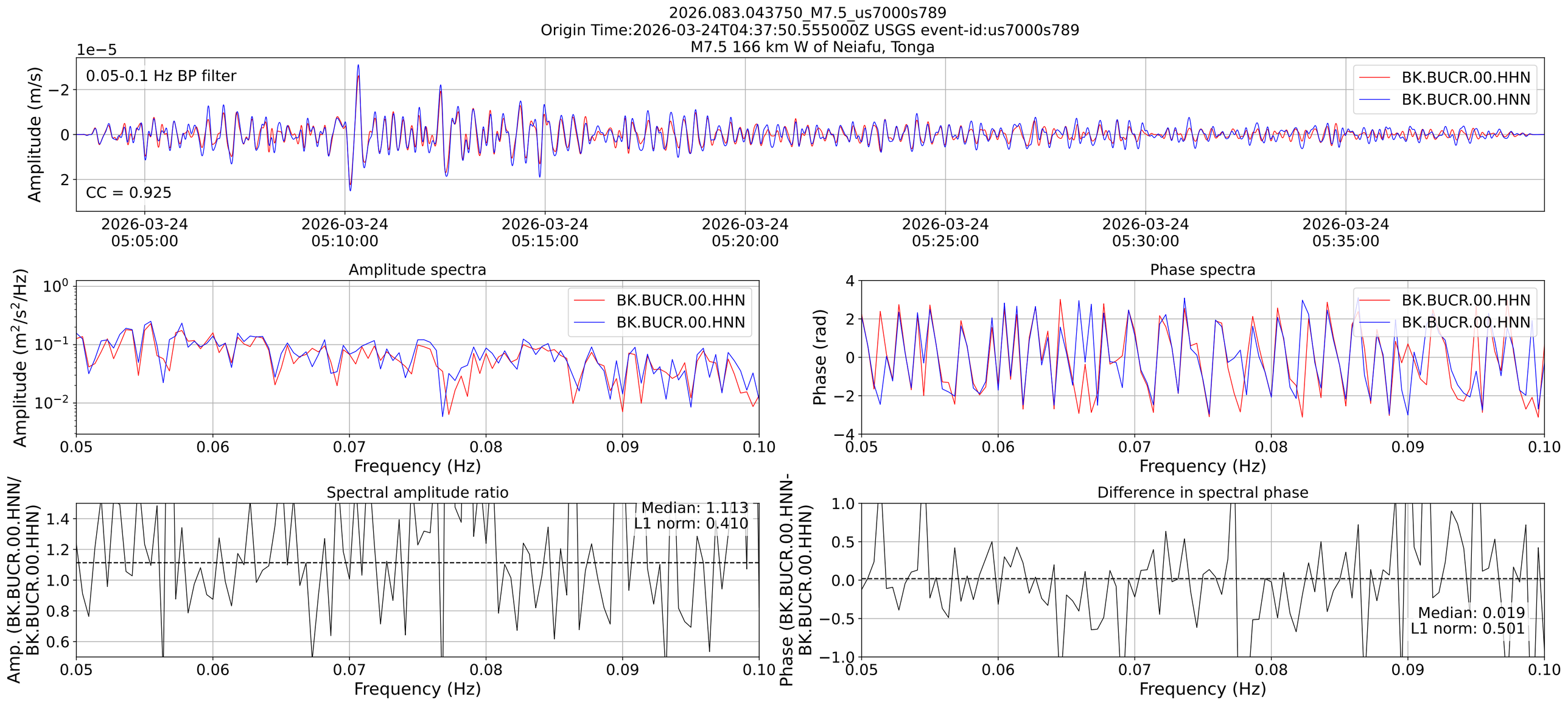

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.BTVR.00.HHZ
BK.BTVR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BTVR.00.HNZ/ BK.BTVR.00.HHZ)
Median: 1.012
L1 norm: 0.229
Difference in spectral phase
Phase (BK.BTVR.00.HNZ- BK.BTVR.00.HHZ)
Median: -0.014
L1 norm: 0.234

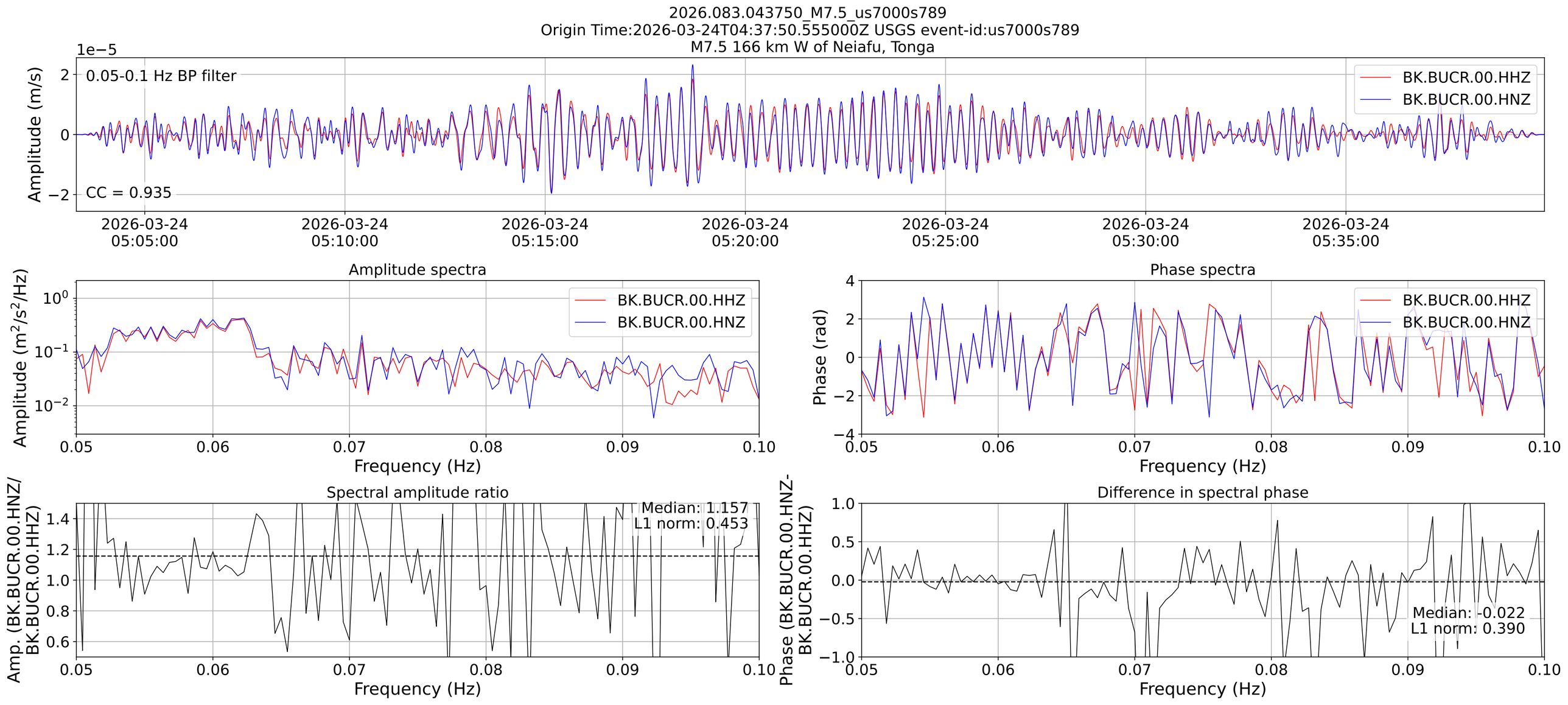

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.BUCI.00.HHE
BK.BUCI.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNE/ BK.BUCI.00.HHE)
Median: 0.995
L1 norm: 0.206
Difference in spectral phase
Phase (BK.BUCI.00.HNE- BK.BUCI.00.HHE)
Median: 0.005
L1 norm: 0.185

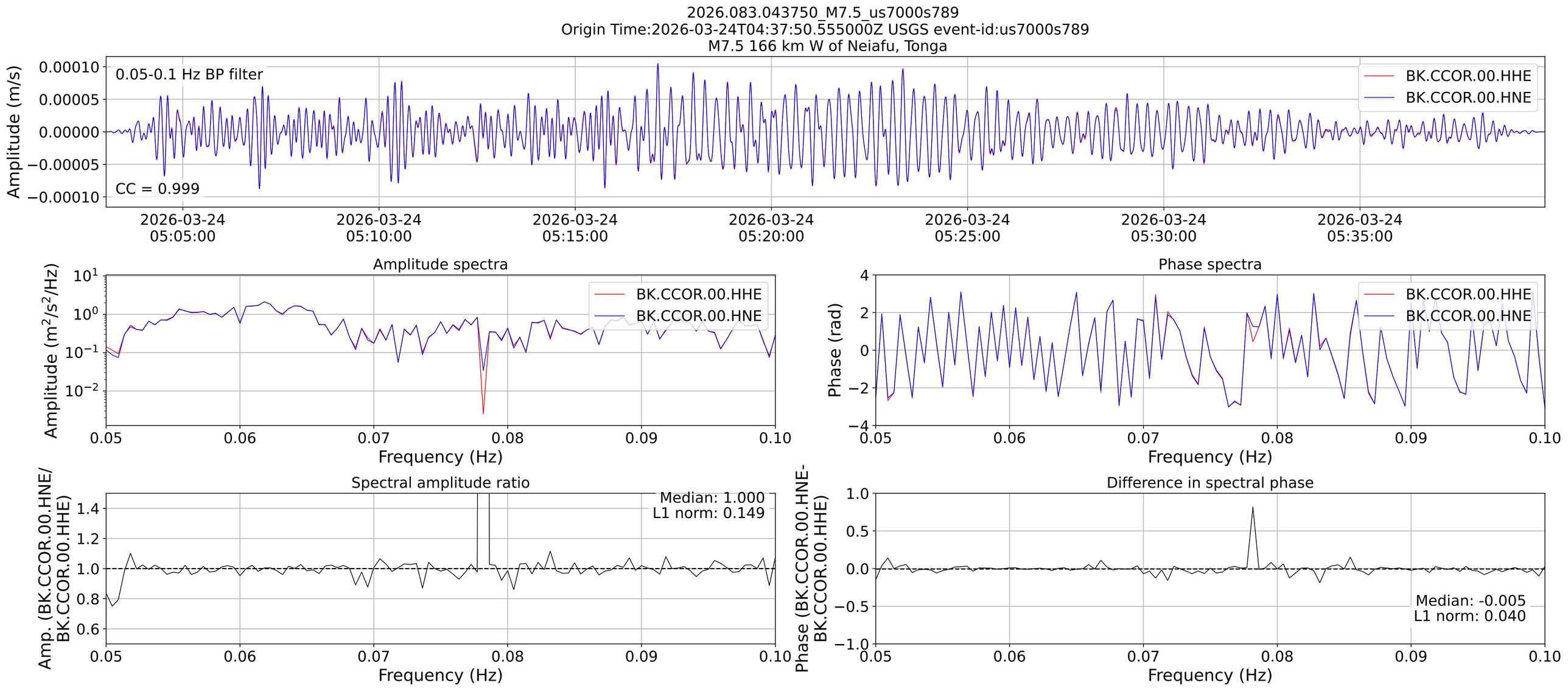

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.BUCI.00.HHN
BK.BUCI.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNN/ BK.BUCI.00.HHN)
Median: 1.010
L1 norm: 0.137
Difference in spectral phase
Phase (BK.BUCI.00.HNN- BK.BUCI.00.HHN)
Median: 0.012
L1 norm: 0.185

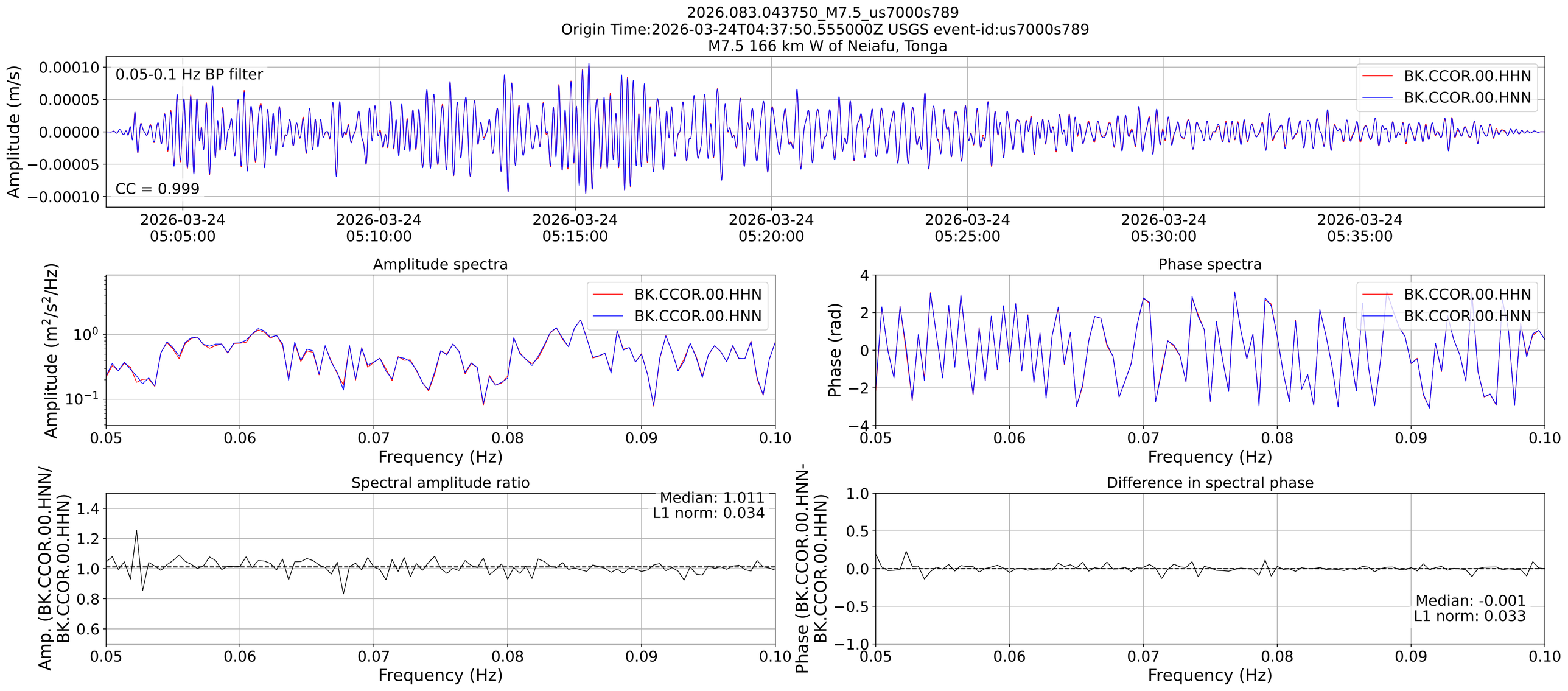

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.BUCI.00.HHZ
BK.BUCI.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCI.00.HNZ/ BK.BUCI.00.HHZ)
Median: 0.981
L1 norm: 0.177
Difference in spectral phase
Phase (BK.BUCI.00.HNZ- BK.BUCI.00.HHZ)
Median: 0.007
L1 norm: 0.192

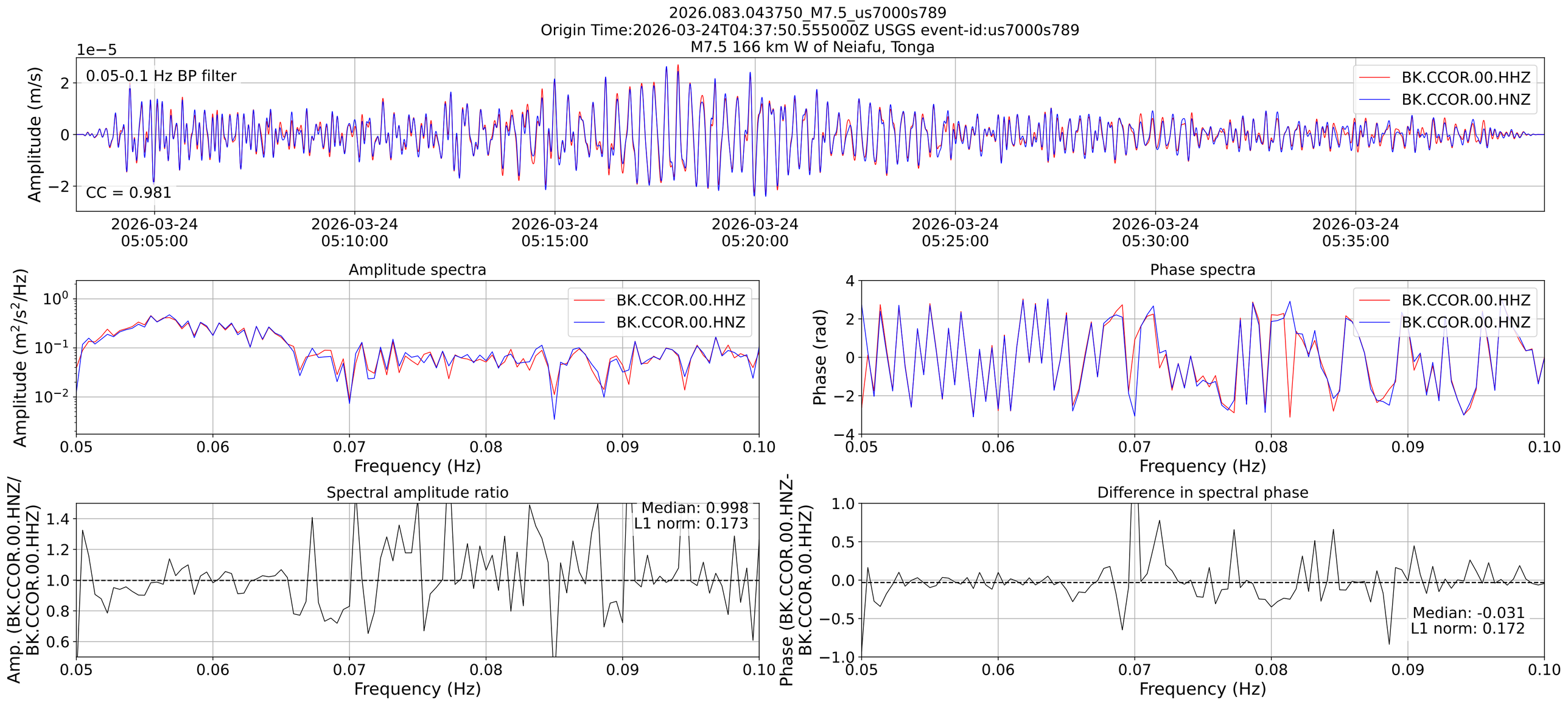

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.913
Amplitude (m/s)
BK.BUCR.00.HHE
BK.BUCR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNE/ BK.BUCR.00.HHE)
Median: 1.095
L1 norm: 0.434
Difference in spectral phase
Phase (BK.BUCR.00.HNE- BK.BUCR.00.HHE)
Median: 0.022
L1 norm: 0.429

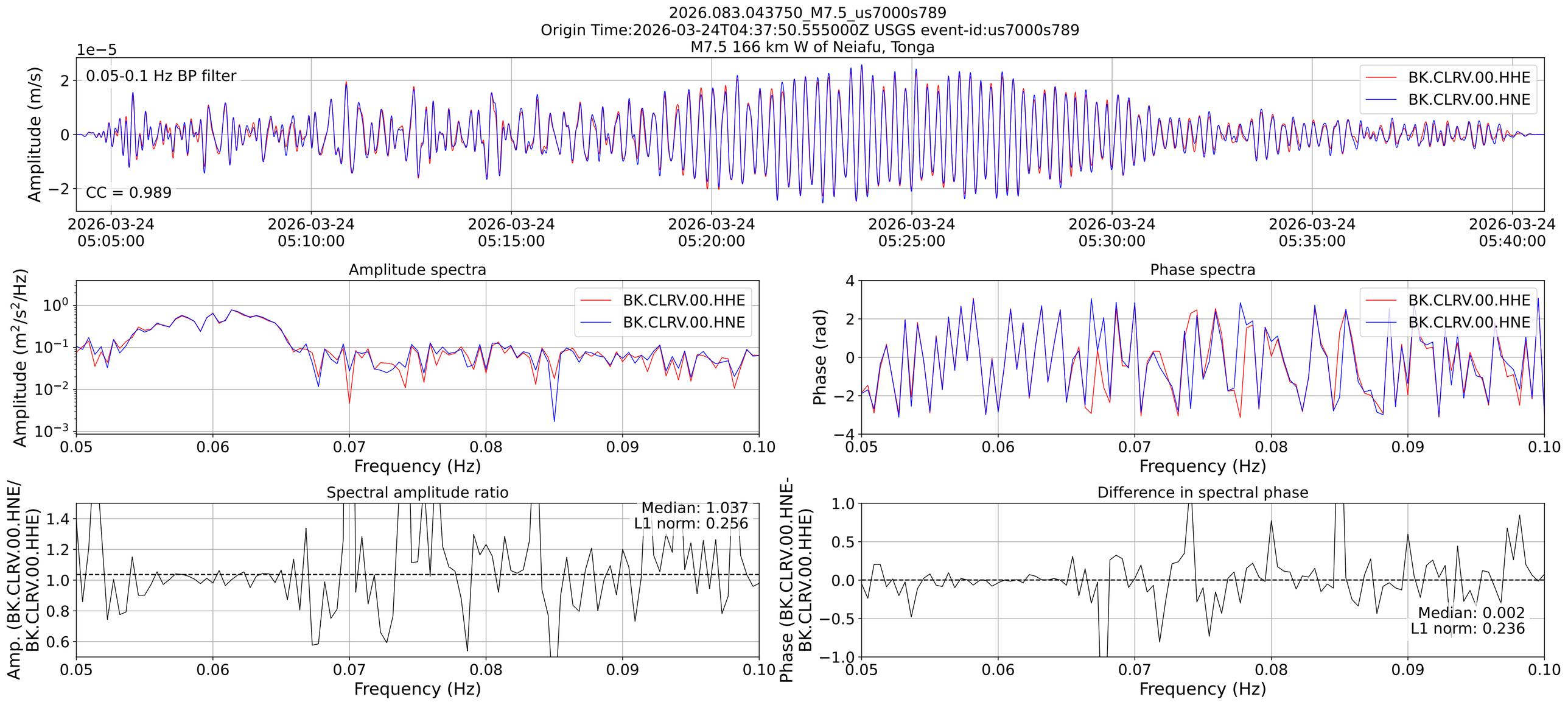

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.925
BK.BUCR.00.HHN
BK.BUCR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNN/ BK.BUCR.00.HHN)
Median: 1.113
L1 norm: 0.410
Difference in spectral phase
Phase (BK.BUCR.00.HNN- BK.BUCR.00.HHN)
Median: 0.019
L1 norm: 0.501

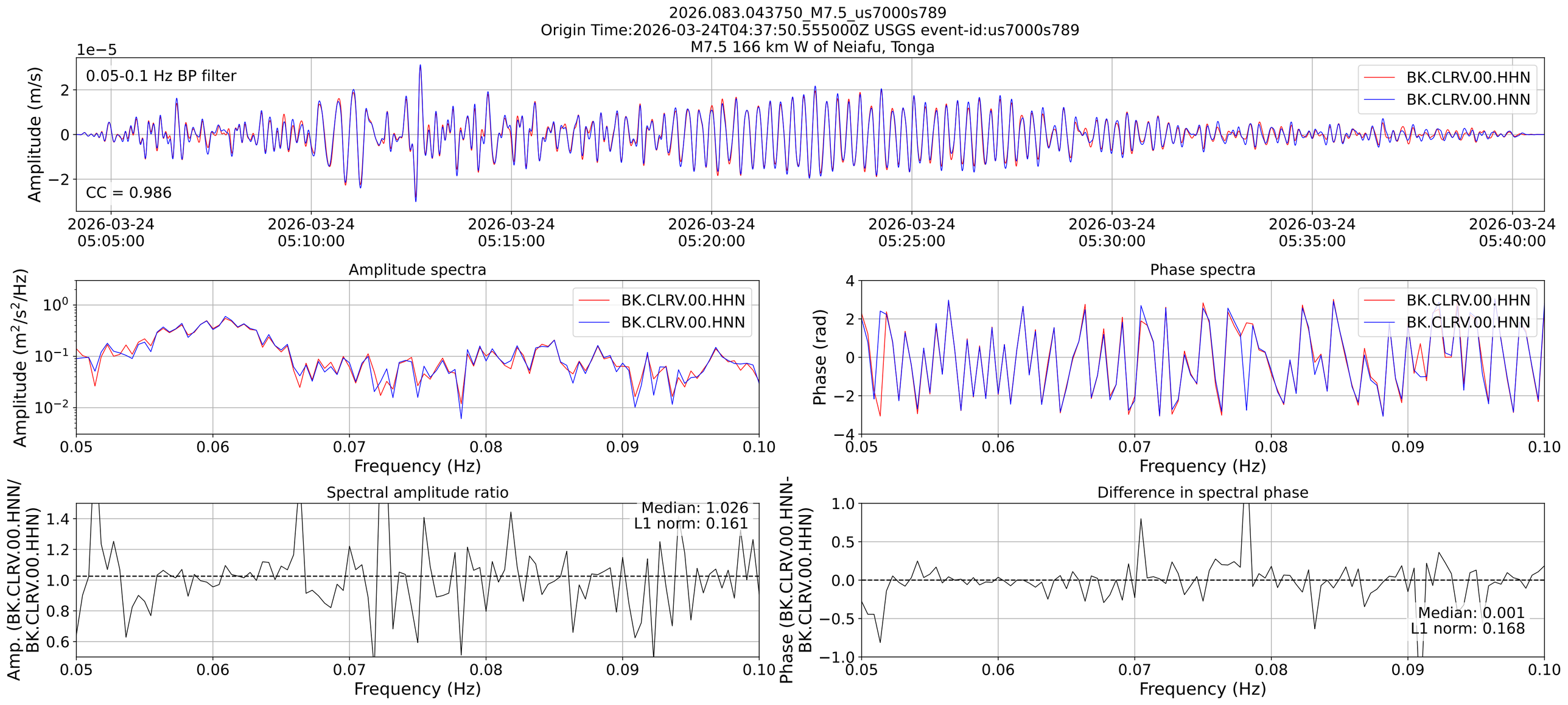

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.935
Amplitude (m/s)
BK.BUCR.00.HHZ
BK.BUCR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.BUCR.00.HNZ/ BK.BUCR.00.HHZ)
Median: 1.157
L1 norm: 0.453
Difference in spectral phase
Phase (BK.BUCR.00.HNZ-BK.BUCR.00.HHZ)
Median: -0.022
L1 norm: 0.390

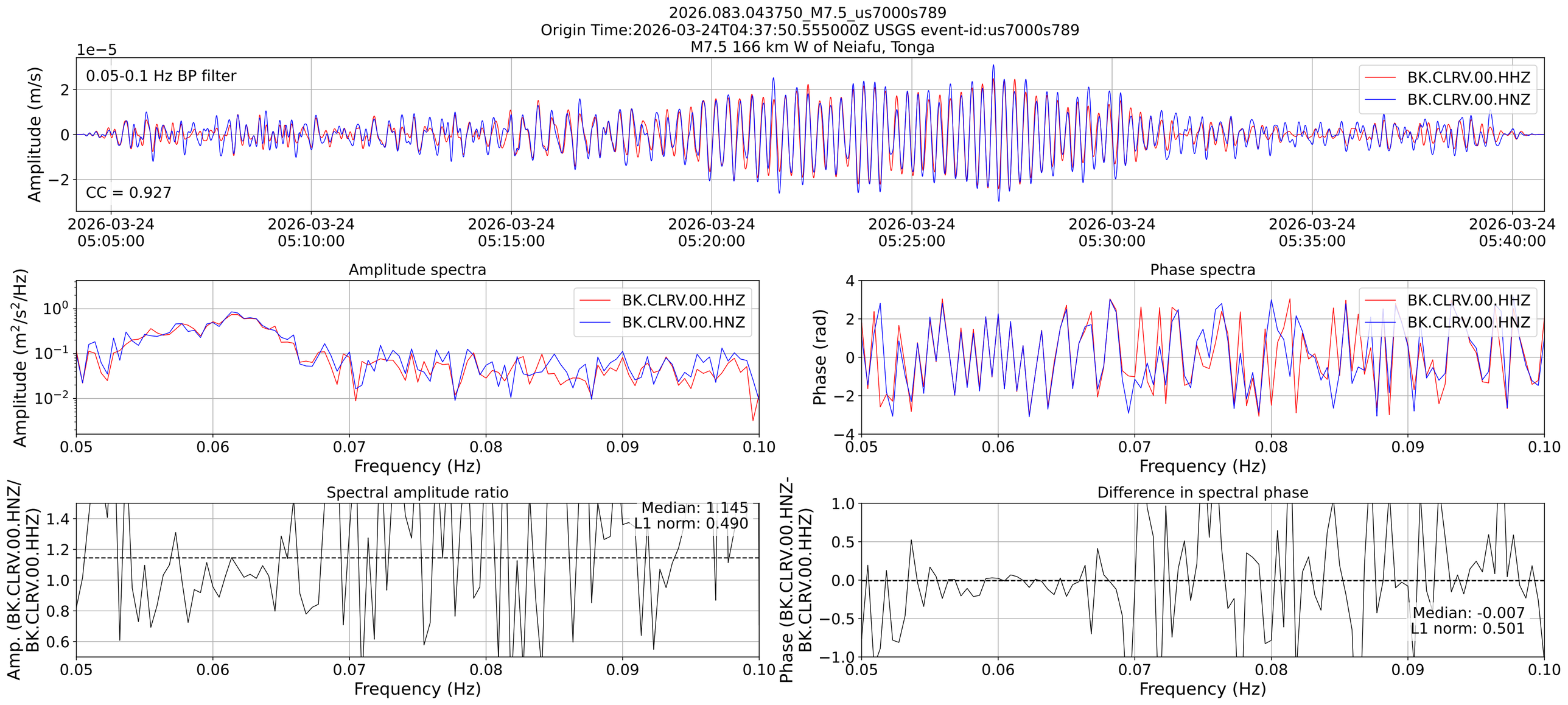

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.999
BK.CCOR.00.HHE
BK.CCOR.00.HNE
Amplitude (m/s)
0.00010
0.00005
0.00000
−0.00005
−0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNE/ BK.CCOR.00.HHE)
Median: 1.000
L1 norm: 0.149
Difference in spectral phase
Phase (BK.CCOR.00.HNE- BK.CCOR.00.HHE)
Median: -0.005
L1 norm: 0.040

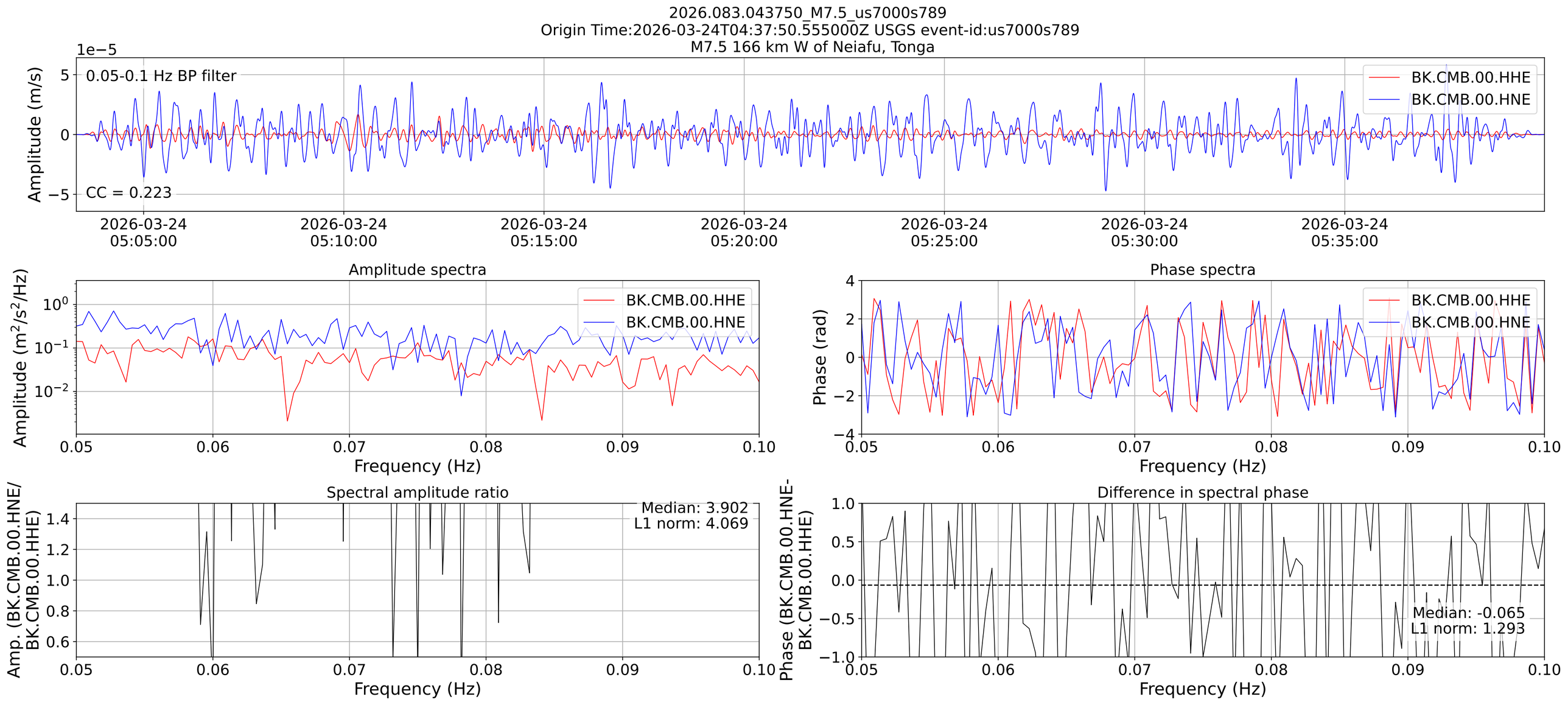

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.999
BK.CCOR.00.HHN
BK.CCOR.00.HNN
Amplitude (m/s)
0.00010
0.00005
0.00000
−0.00005
−0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNN/ BK.CCOR.00.HHN)
Median: 1.011
L1 norm: 0.034
Difference in spectral phase
Phase (BK.CCOR.00.HNN- BK.CCOR.00.HHN)
Median: -0.001
L1 norm: 0.033

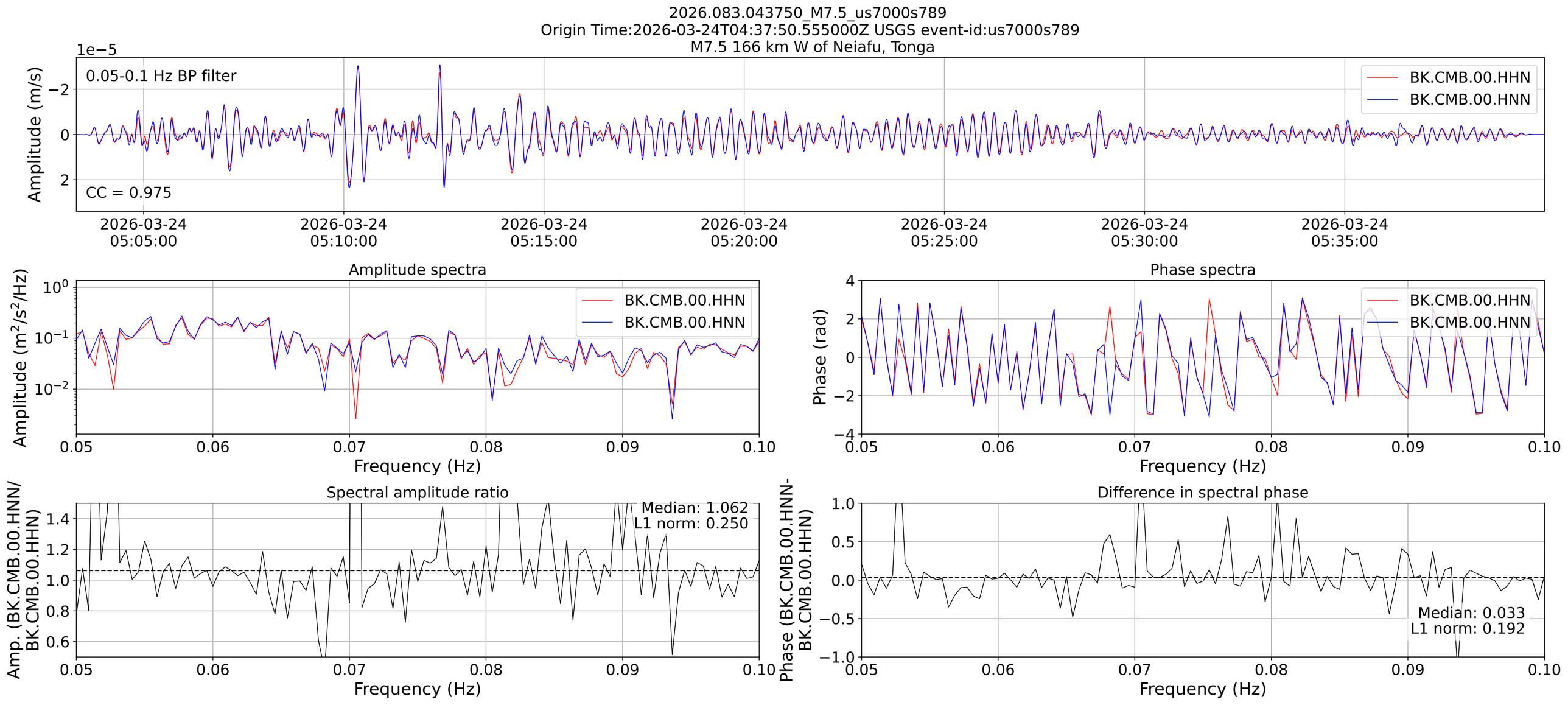

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.CCOR.00.HHZ
BK.CCOR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CCOR.00.HNZ/ BK.CCOR.00.HHZ)
Median: 0.998
L1 norm: 0.173
Difference in spectral phase
Phase (BK.CCOR.00.HNZ- BK.CCOR.00.HHZ)
Median: -0.031
L1 norm: 0.172

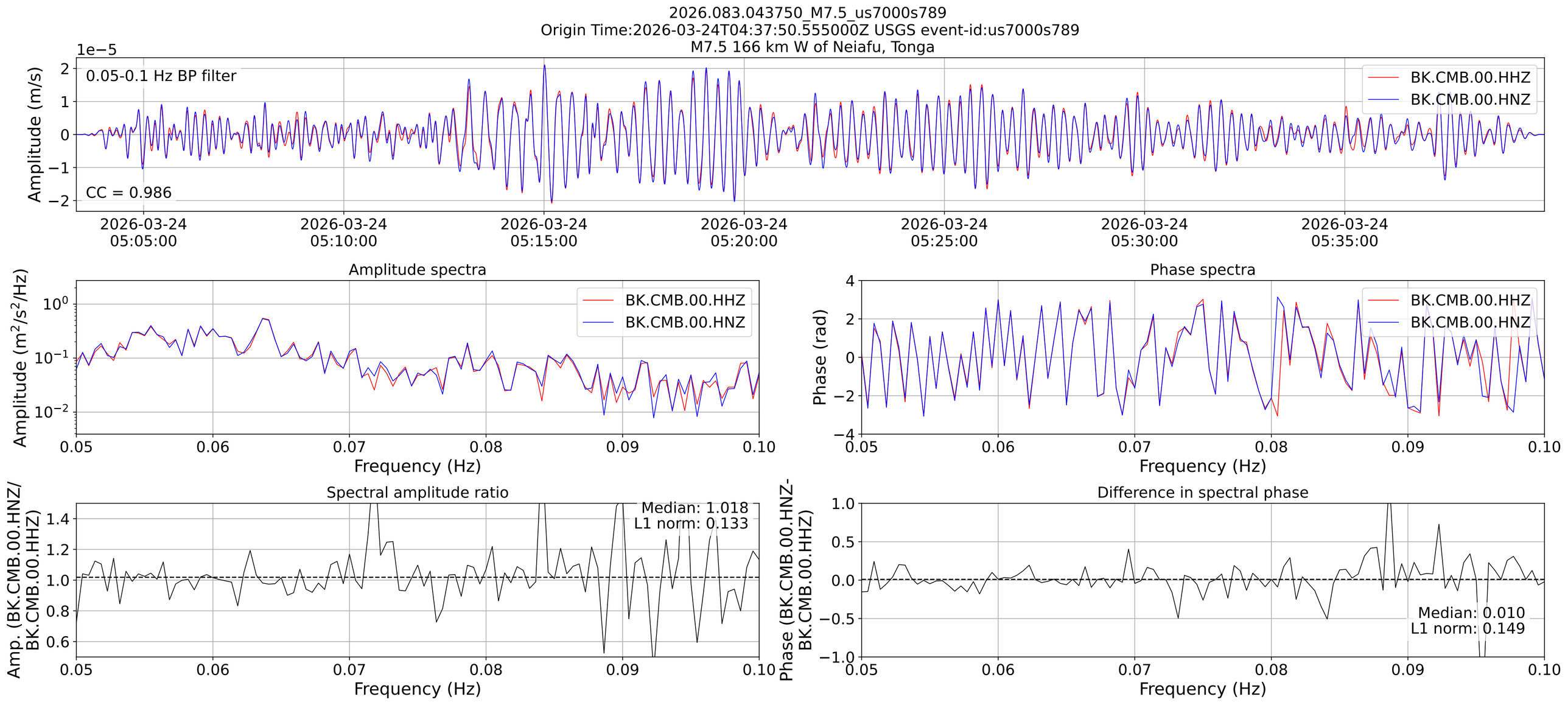

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.CLRV.00.HHE
BK.CLRV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNE/ BK.CLRV.00.HHE)
Median: 1.037
L1 norm: 0.256
Difference in spectral phase
Phase (BK.CLRV.00.HNE- BK.CLRV.00.HHE)
Median: 0.002
L1 norm: 0.236

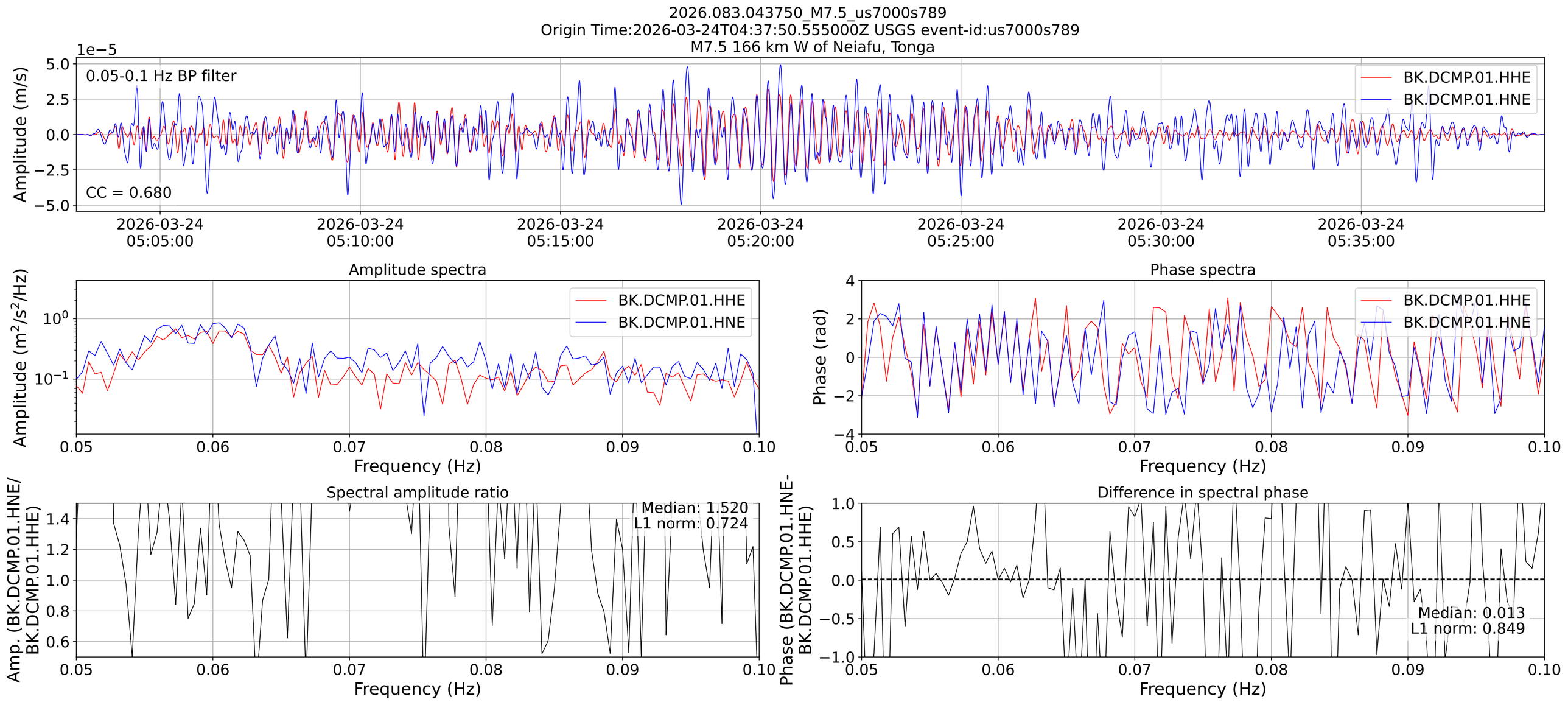

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.CLRV.00.HHN
BK.CLRV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNN/ BK.CLRV.00.HHN)
Median: 1.026
L1 norm: 0.161
Difference in spectral phase
Phase (BK.CLRV.00.HNN- BK.CLRV.00.HHN)
Median: 0.001
L1 norm: 0.168

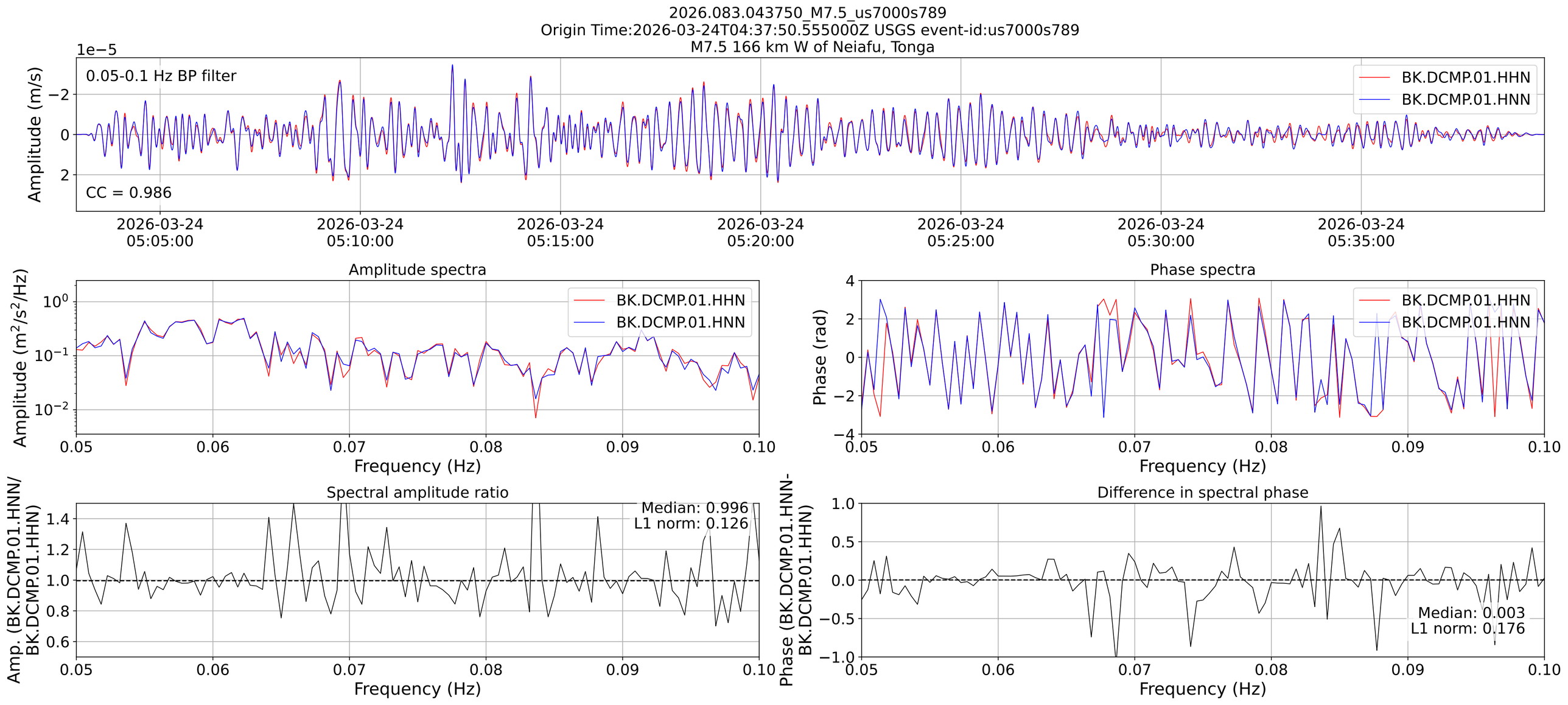

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.927
BK.CLRV.00.HHZ
BK.CLRV.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CLRV.00.HNZ/ BK.CLRV.00.HHZ)
Median: 1.145
L1 norm: 0.490
Difference in spectral phase
Phase (BK.CLRV.00.HNZ- BK.CLRV.00.HHZ)
Median: -0.007
L1 norm: 0.501

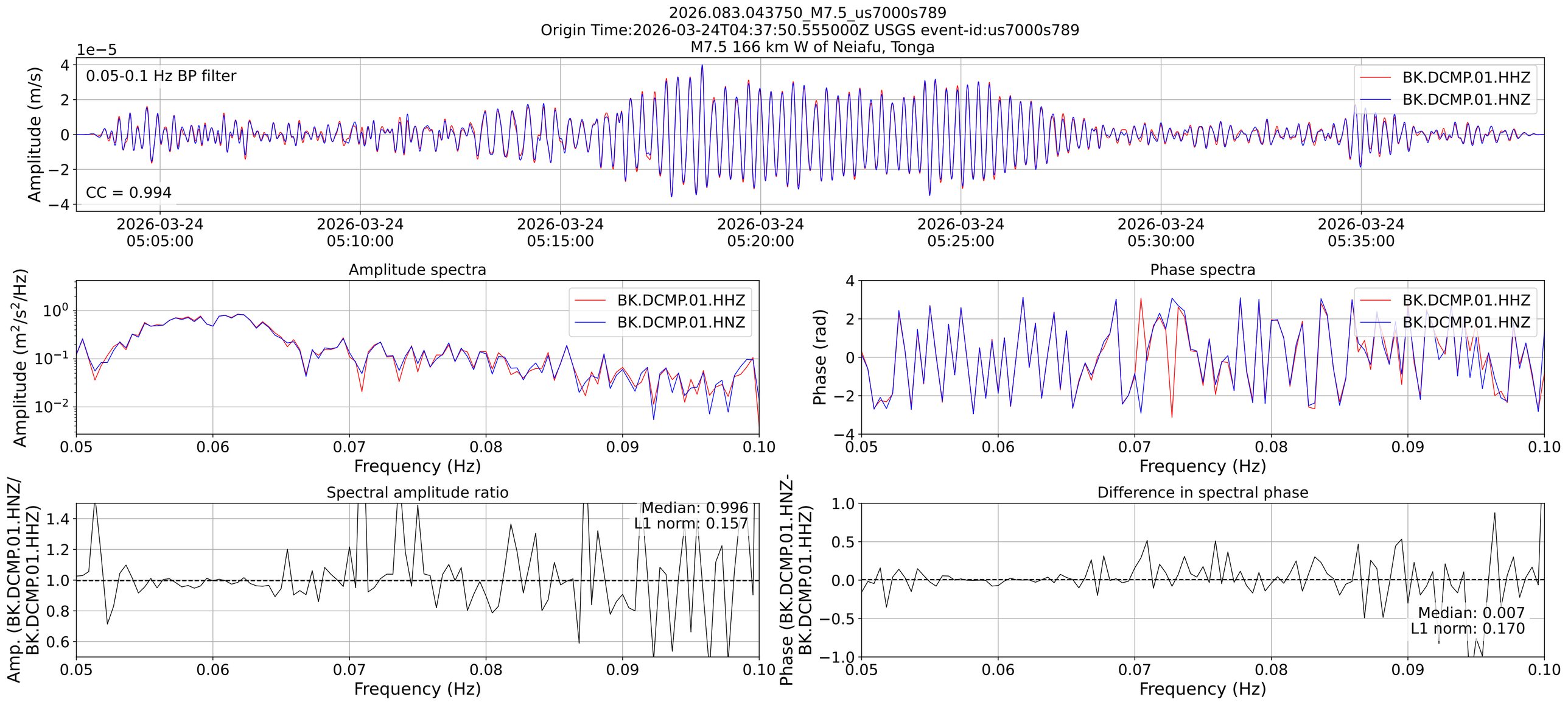

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.223
Amplitude (m/s)
BK.CMB.00.HHE
BK.CMB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNE/ BK.CMB.00.HHE)
Median: 3.902
L1 norm: 4.069
Difference in spectral phase
Phase (BK.CMB.00.HNE- BK.CMB.00.HHE)
Median: -0.065
L1 norm: 1.293

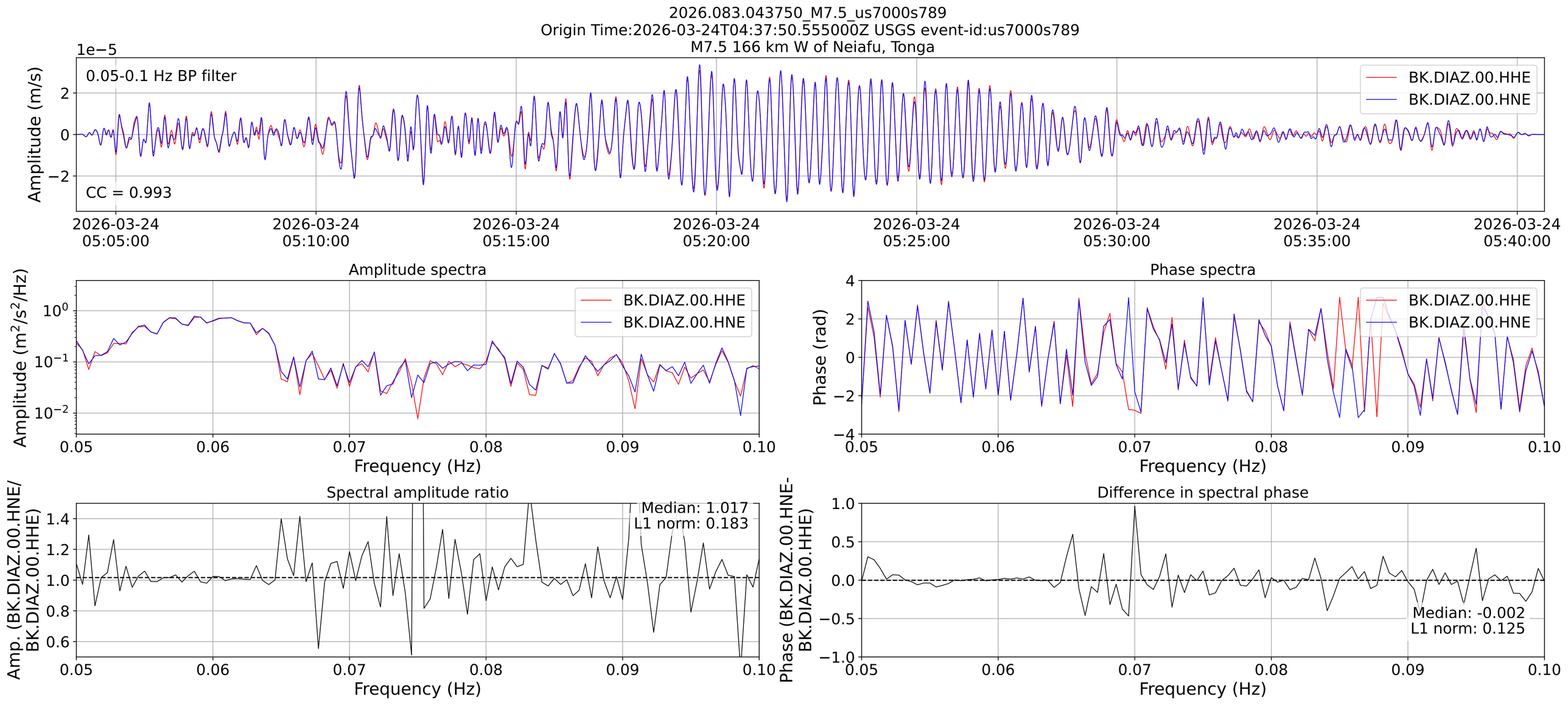

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.975
BK.CMB.00.HHN
BK.CMB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNN/ BK.CMB.00.HHN)
Median: 1.062
L1 norm: 0.250
Difference in spectral phase
Phase (BK.CMB.00.HNN- BK.CMB.00.HHN)
Median: 0.033
L1 norm: 0.192

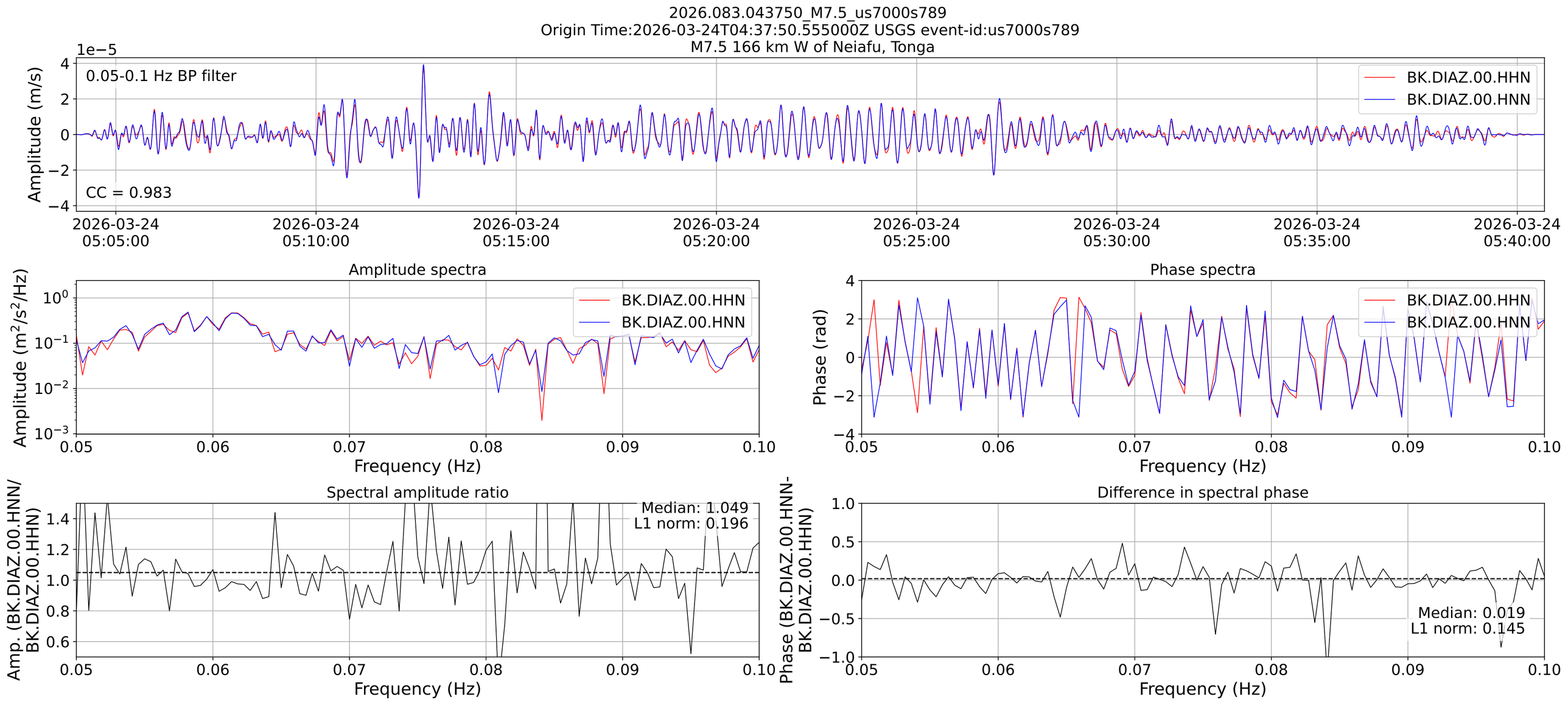

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.986
BK.CMB.00.HHZ
BK.CMB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.CMB.00.HNZ/ BK.CMB.00.HHZ)
Median: 1.018
L1 norm: 0.133
Difference in spectral phase
Phase (BK.CMB.00.HNZ- BK.CMB.00.HHZ)
Median: 0.010
L1 norm: 0.149

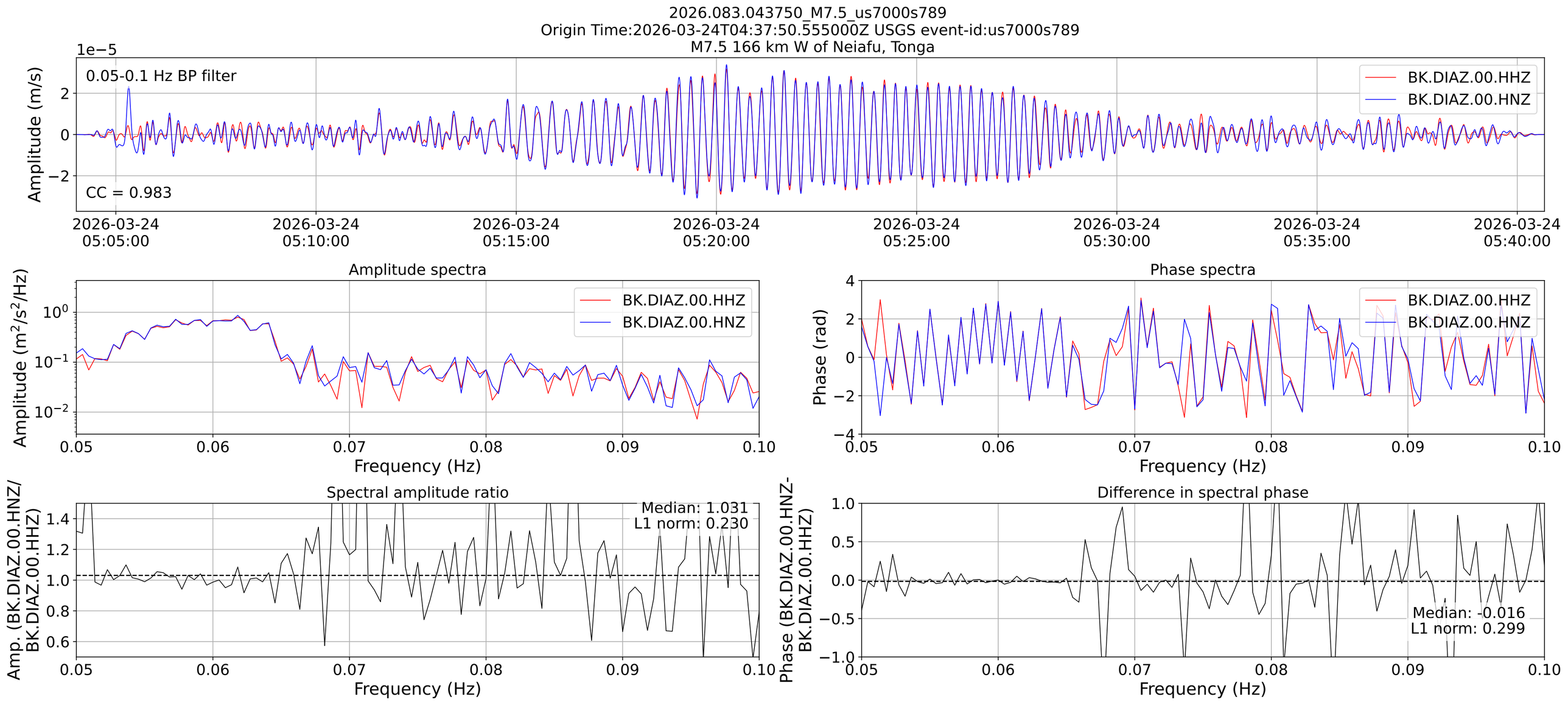

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.680
BK.DCMP.01.HHE
BK.DCMP.01.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNE/ BK.DCMP.01.HHE)
Median: 1.520
L1 norm: 0.724
Difference in spectral phase
Phase (BK.DCMP.01.HNE- BK.DCMP.01.HHE)
Median: 0.013
L1 norm: 0.849

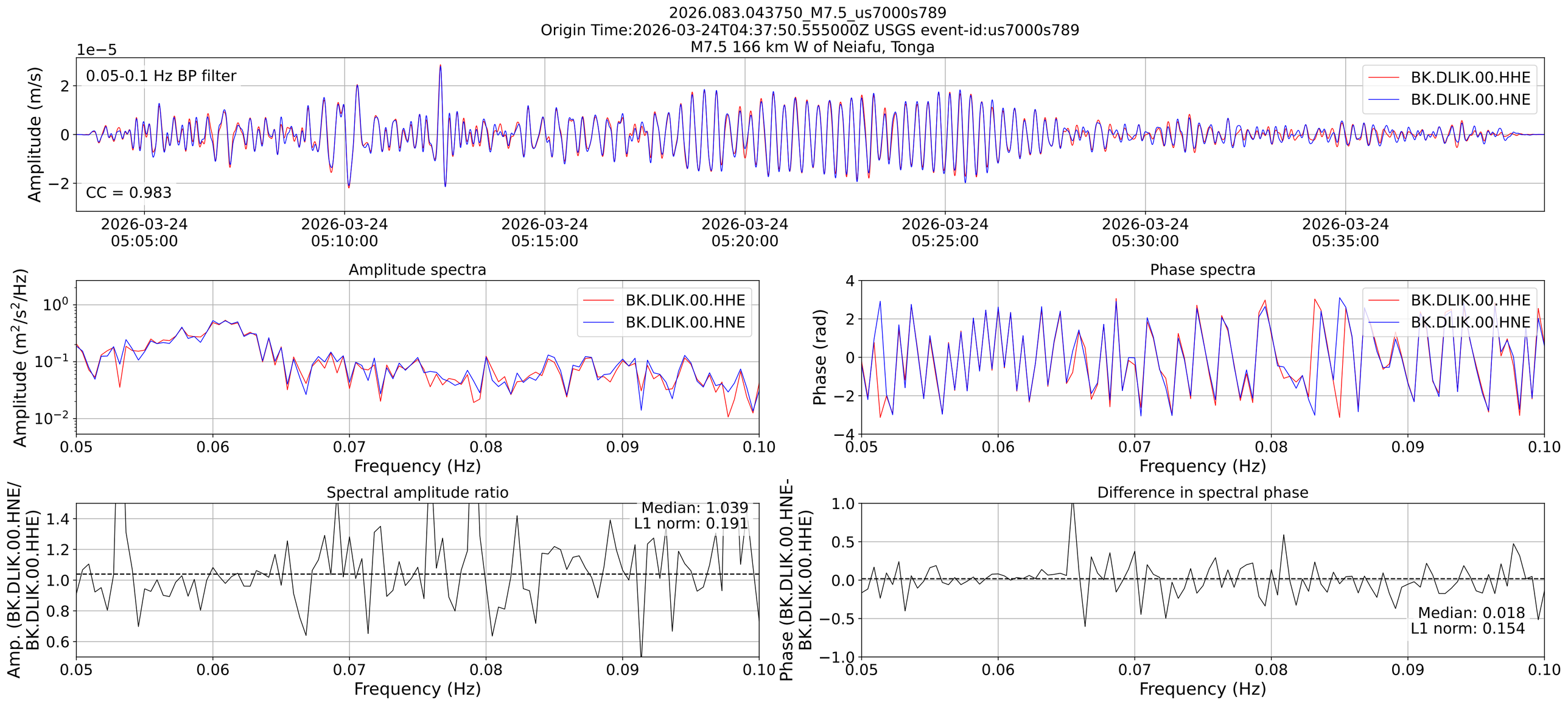

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.DCMP.01.HHN
BK.DCMP.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNN/ BK.DCMP.01.HHN)
Median: 0.996
L1 norm: 0.126
Difference in spectral phase
Phase (BK.DCMP.01.HNN- BK.DCMP.01.HHN)
Median: 0.003
L1 norm: 0.176

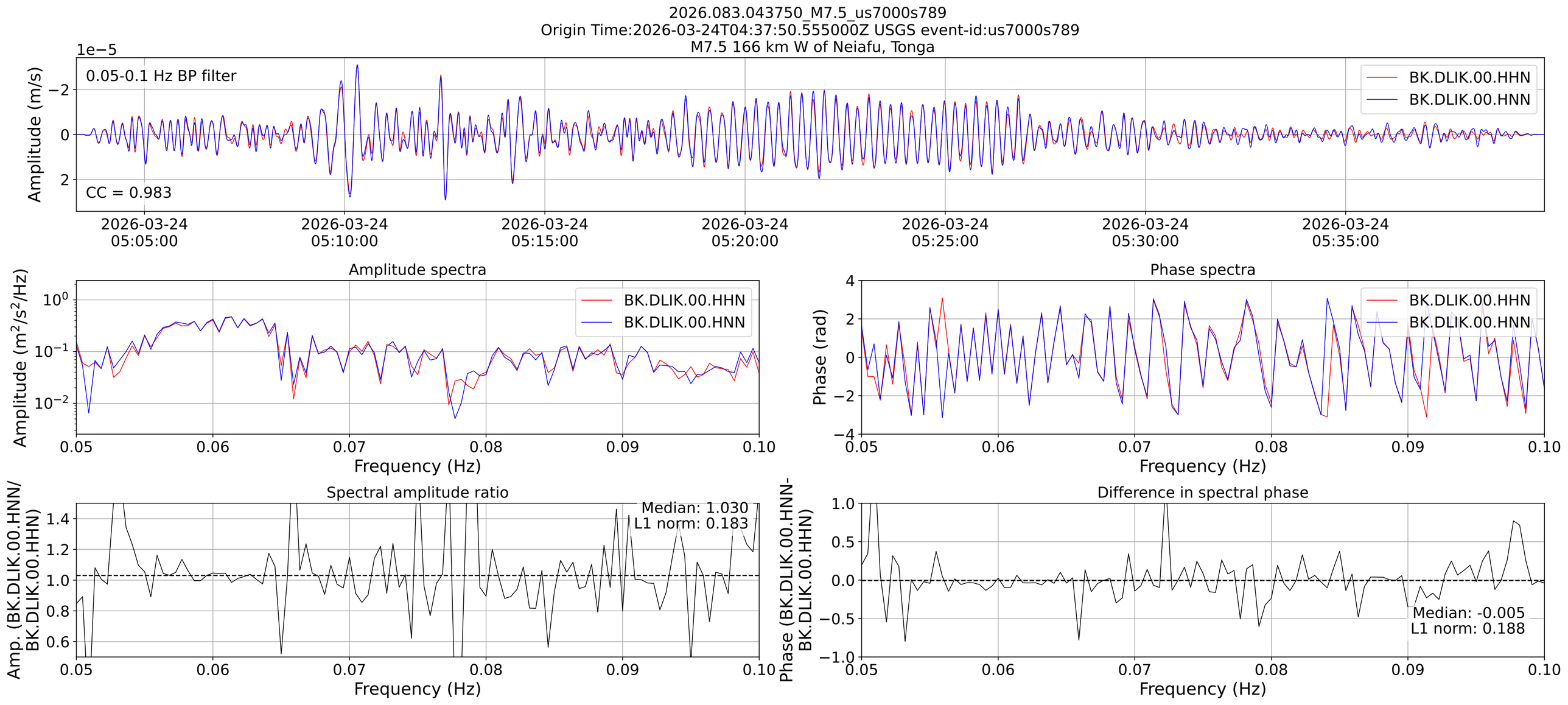

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.DCMP.01.HHZ
BK.DCMP.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DCMP.01.HNZ/ BK.DCMP.01.HHZ)
Median: 0.996
L1 norm: 0.157
Difference in spectral phase
Phase (BK.DCMP.01.HNZ- BK.DCMP.01.HHZ)
Median: 0.007
L1 norm: 0.170

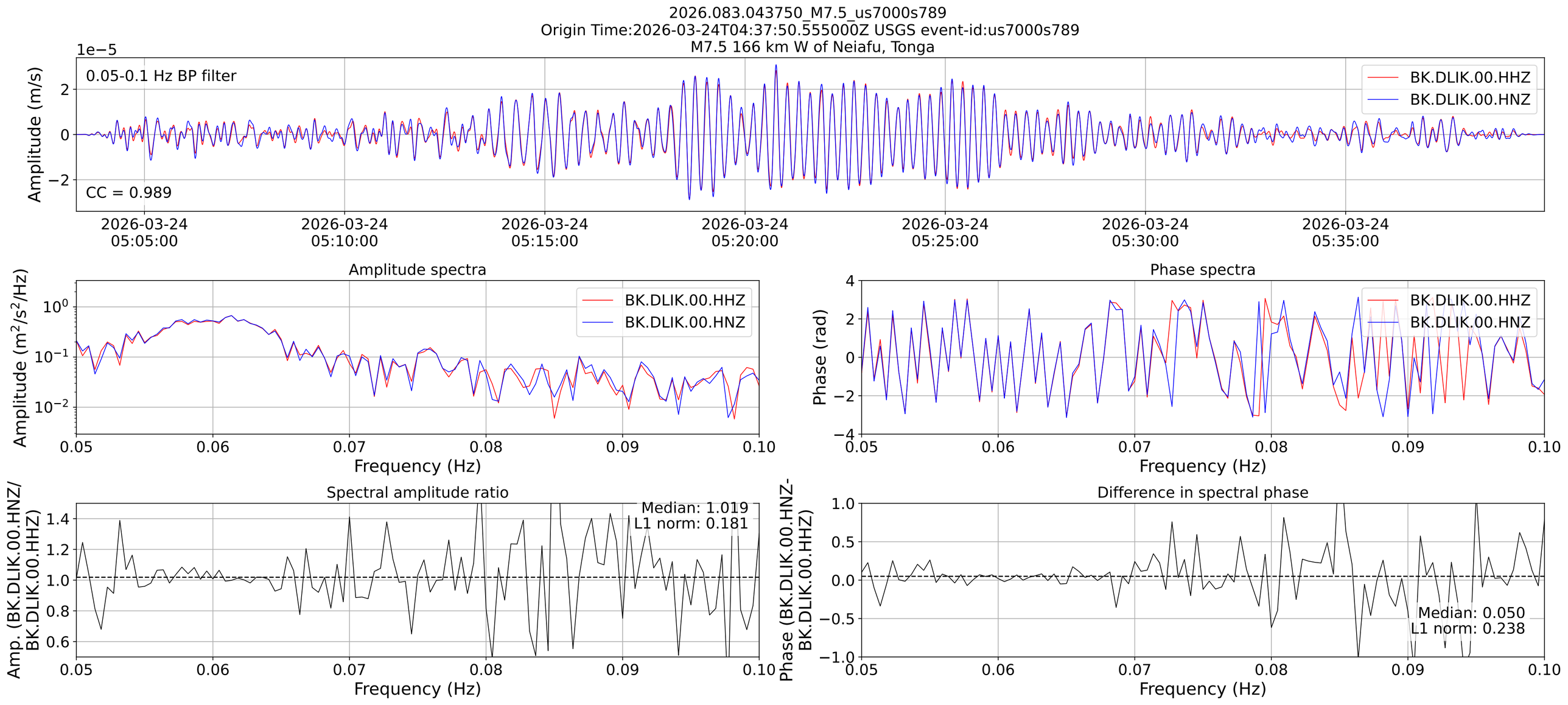

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.DIAZ.00.HHE
BK.DIAZ.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNE/ BK.DIAZ.00.HHE)
Median: 1.017
L1 norm: 0.183
Difference in spectral phase
Phase (BK.DIAZ.00.HNE- BK.DIAZ.00.HHE)
Median: -0.002
L1 norm: 0.125

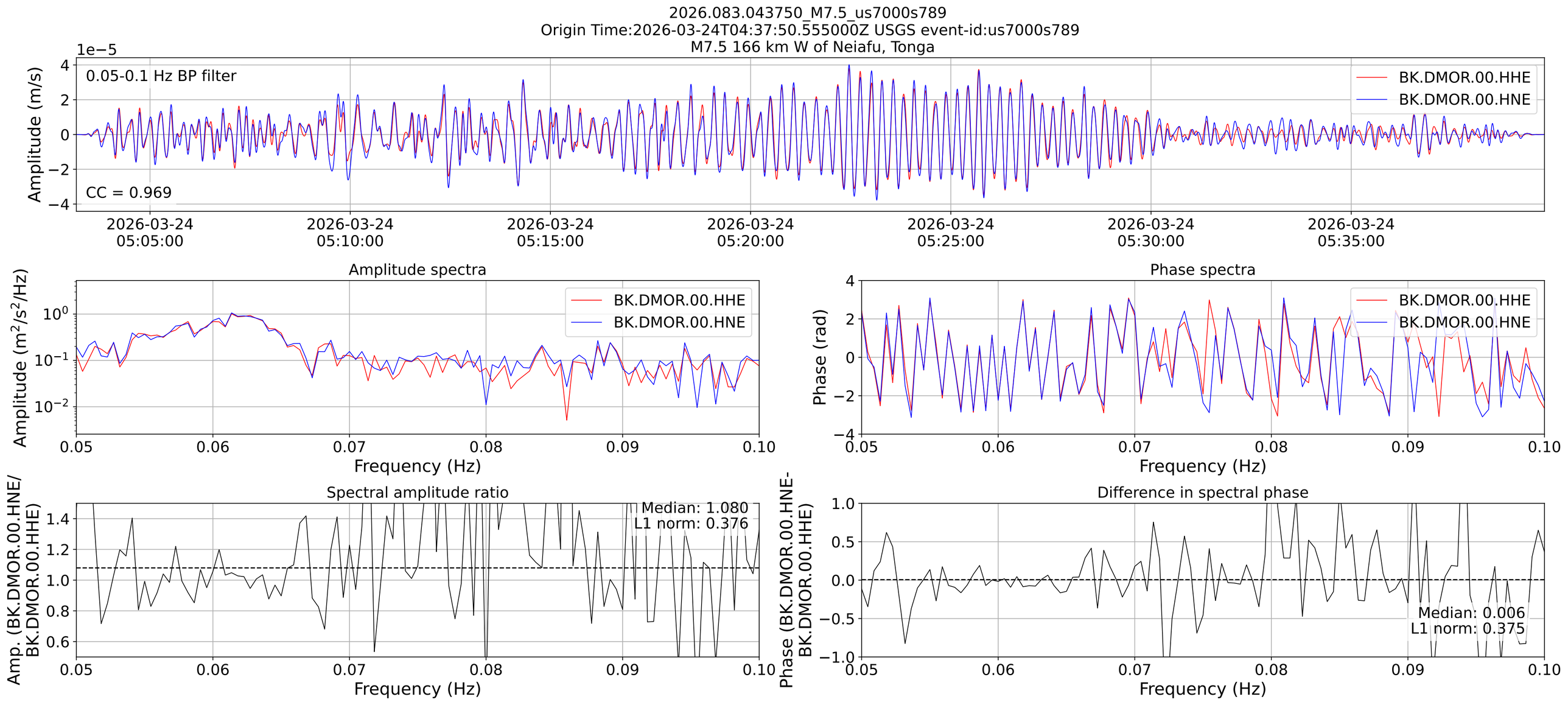

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.DIAZ.00.HHN
BK.DIAZ.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNN/ BK.DIAZ.00.HHN)
Median: 1.049
L1 norm: 0.196
Difference in spectral phase
Phase (BK.DIAZ.00.HNN- BK.DIAZ.00.HHN)
Median: 0.019
L1 norm: 0.145

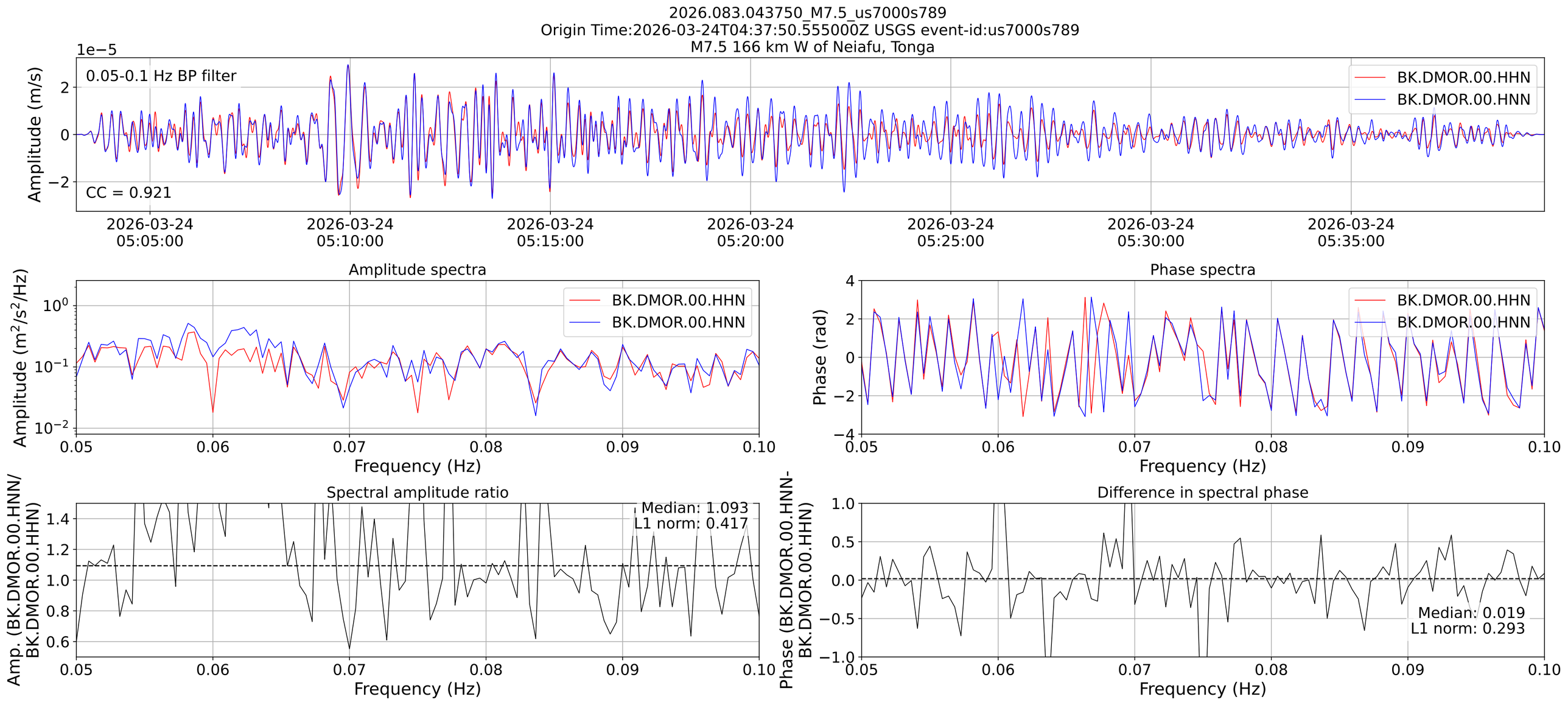

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.DIAZ.00.HHZ
BK.DIAZ.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DIAZ.00.HNZ/ BK.DIAZ.00.HHZ)
Median: 1.031
L1 norm: 0.230
Difference in spectral phase
Phase (BK.DIAZ.00.HNZ- BK.DIAZ.00.HHZ)
Median: -0.016
L1 norm: 0.299

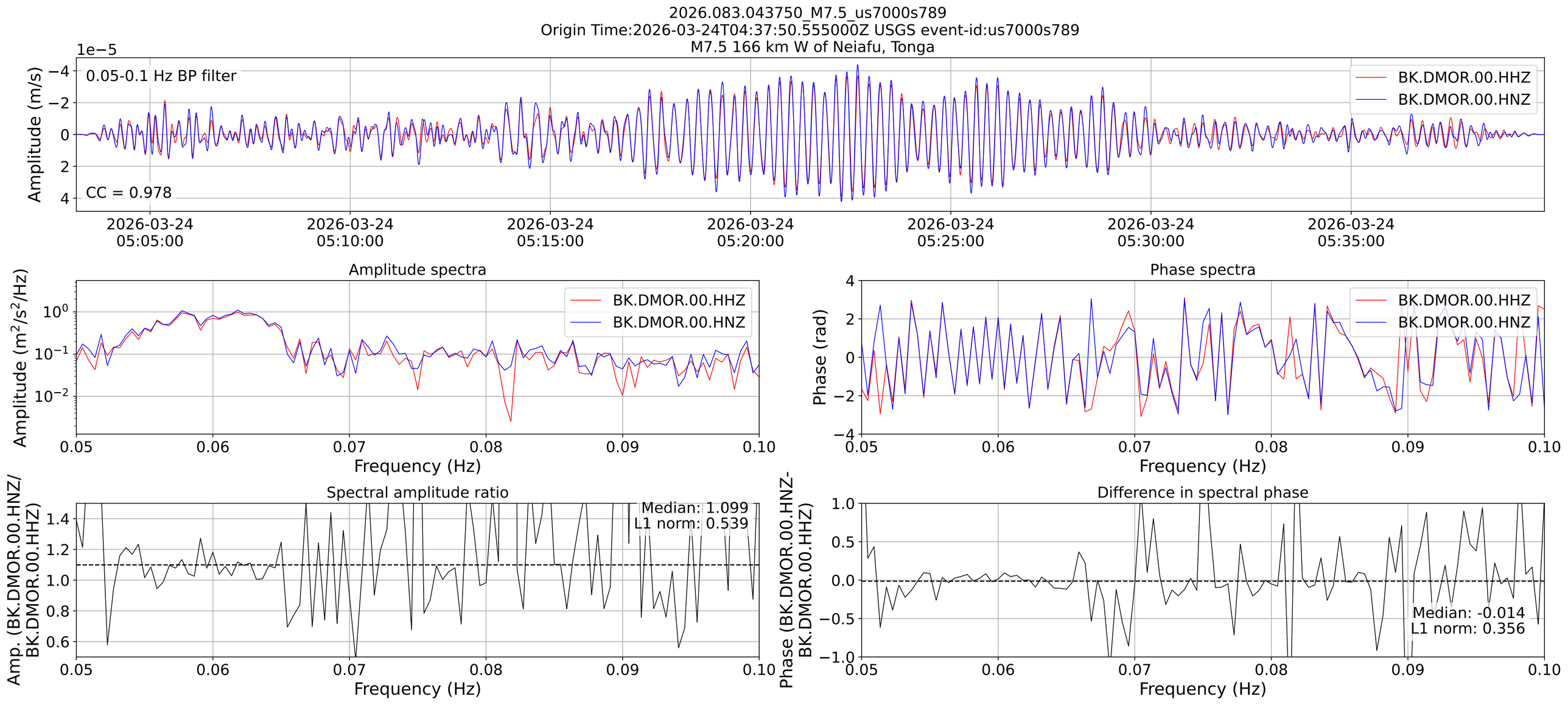

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.DLIK.00.HHE
BK.DLIK.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNE/ BK.DLIK.00.HHE)
Median: 1.039
L1 norm: 0.191
Difference in spectral phase
Phase (BK.DLIK.00.HNE- BK.DLIK.00.HHE)
Median: 0.018
L1 norm: 0.154

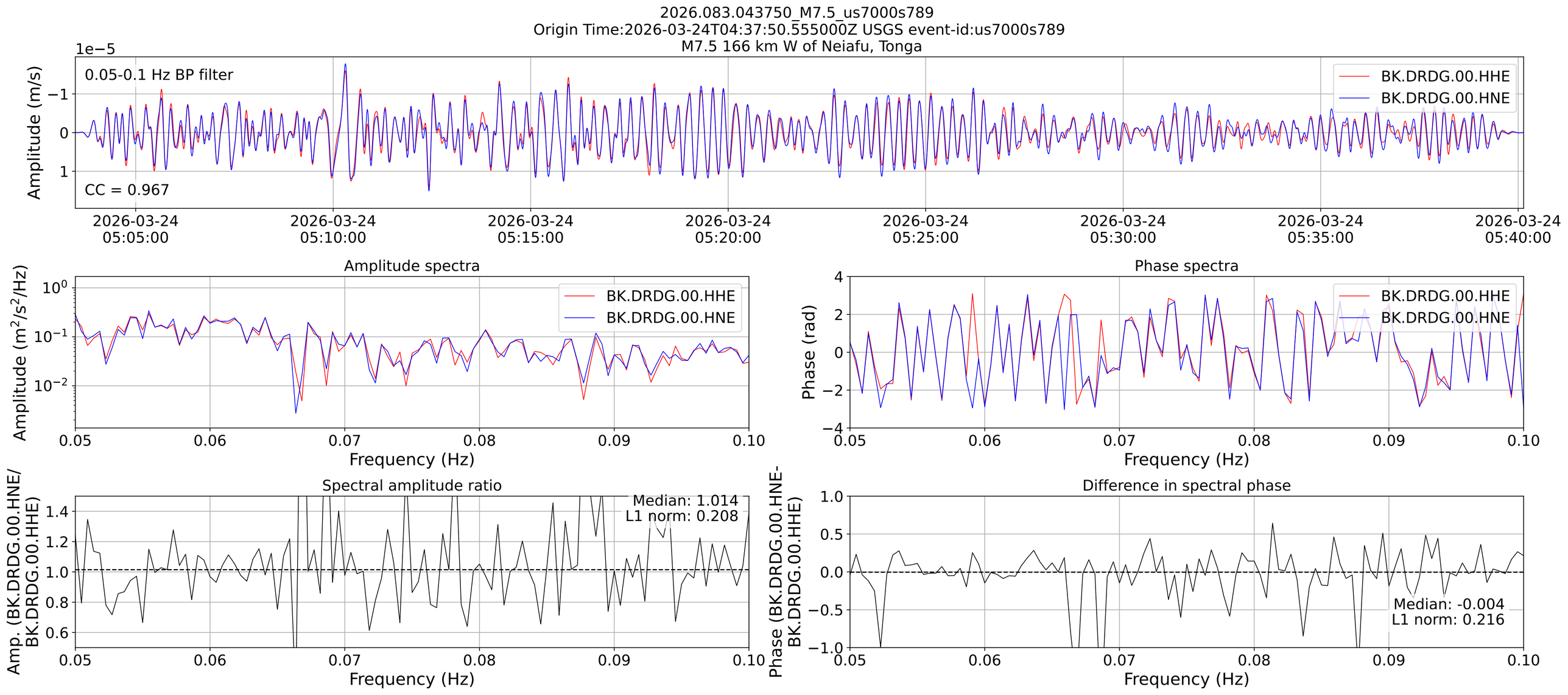

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.983
BK.DLIK.00.HHN
BK.DLIK.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNN/ BK.DLIK.00.HHN)
Median: 1.030
L1 norm: 0.183
Difference in spectral phase
Phase (BK.DLIK.00.HNN- BK.DLIK.00.HHN)
Median: -0.005
L1 norm: 0.188

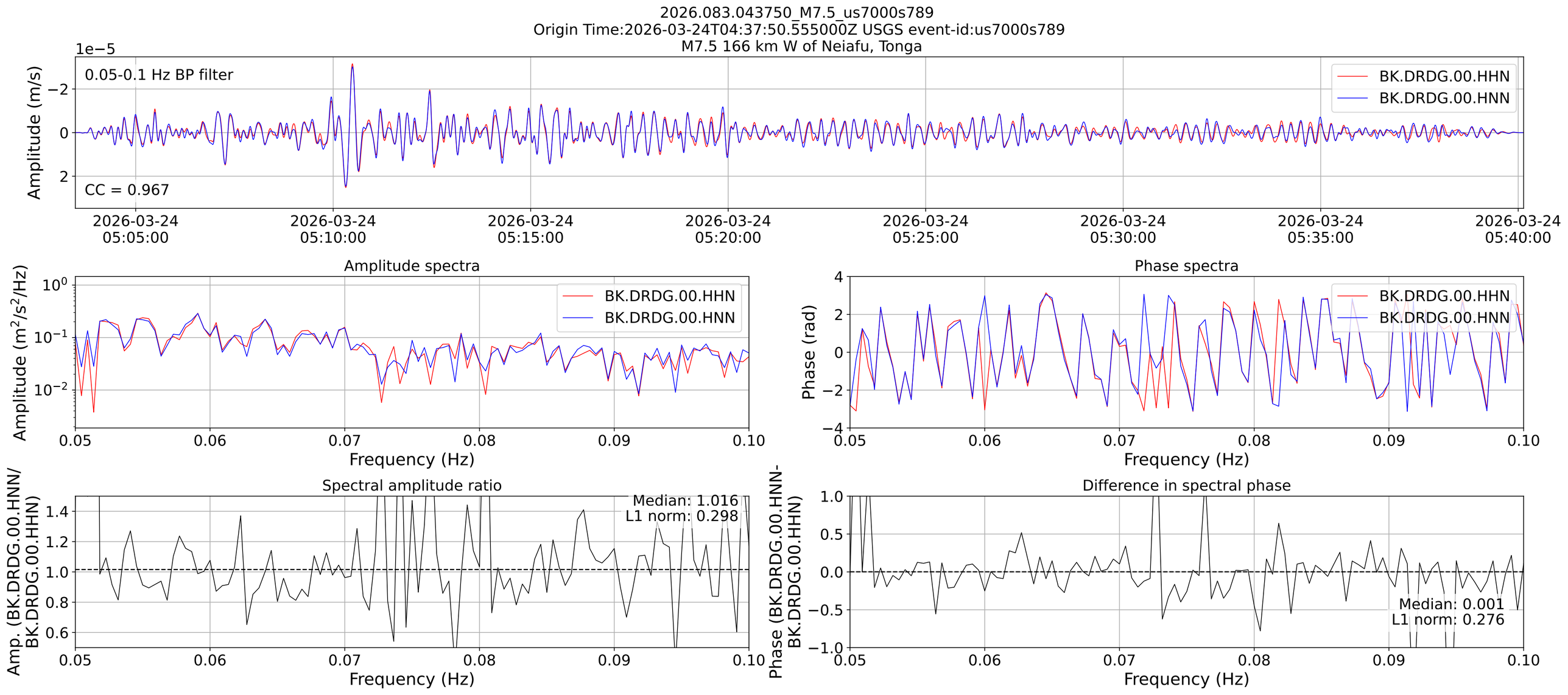

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.DLIK.00.HHZ
BK.DLIK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DLIK.00.HNZ/ BK.DLIK.00.HHZ)
Median: 1.019
L1 norm: 0.181
Difference in spectral phase
Phase (BK.DLIK.00.HNZ- BK.DLIK.00.HHZ)
Median: 0.050
L1 norm: 0.238

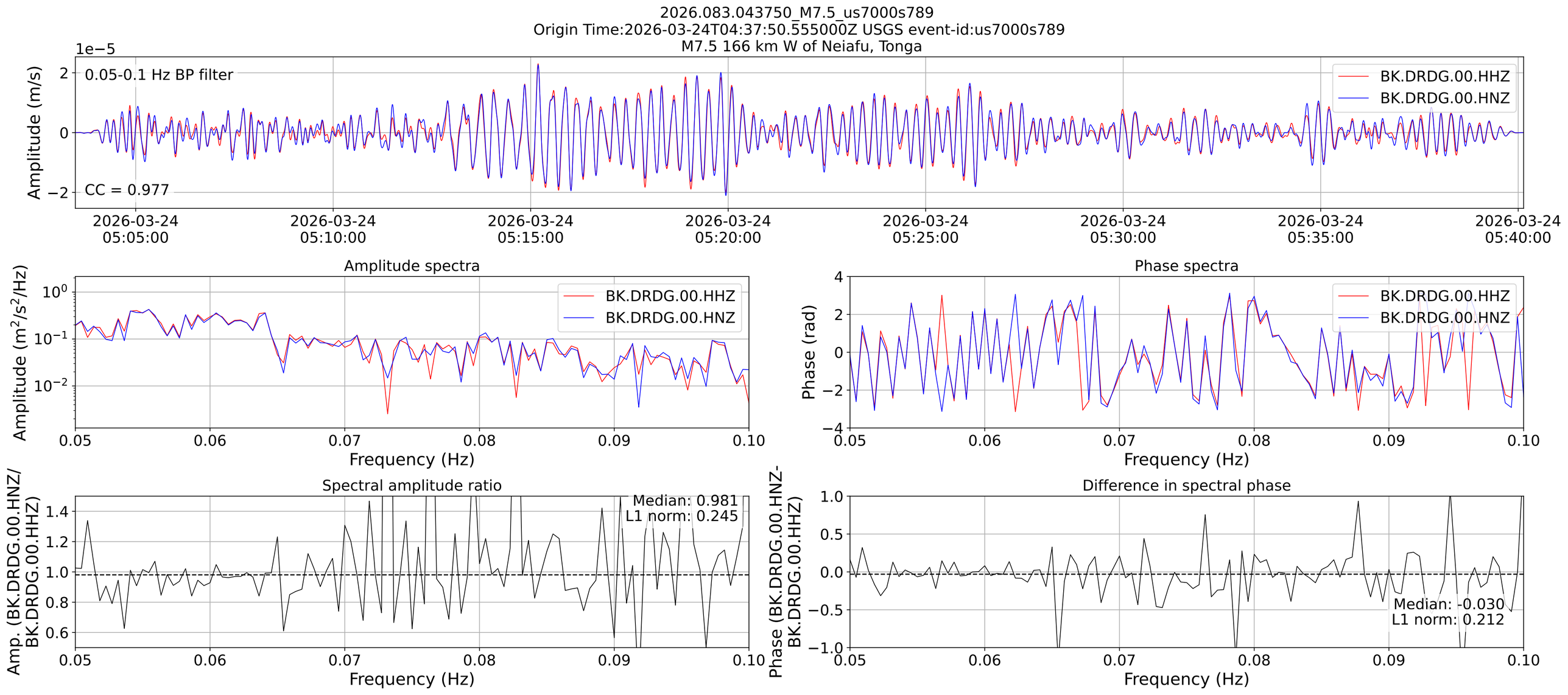

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.969
BK.DMOR.00.HHE
BK.DMOR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNE/ BK.DMOR.00.HHE)
Median: 1.080
L1 norm: 0.376
Difference in spectral phase
Phase (BK.DMOR.00.HNE- BK.DMOR.00.HHE)
Median: 0.006
L1 norm: 0.375

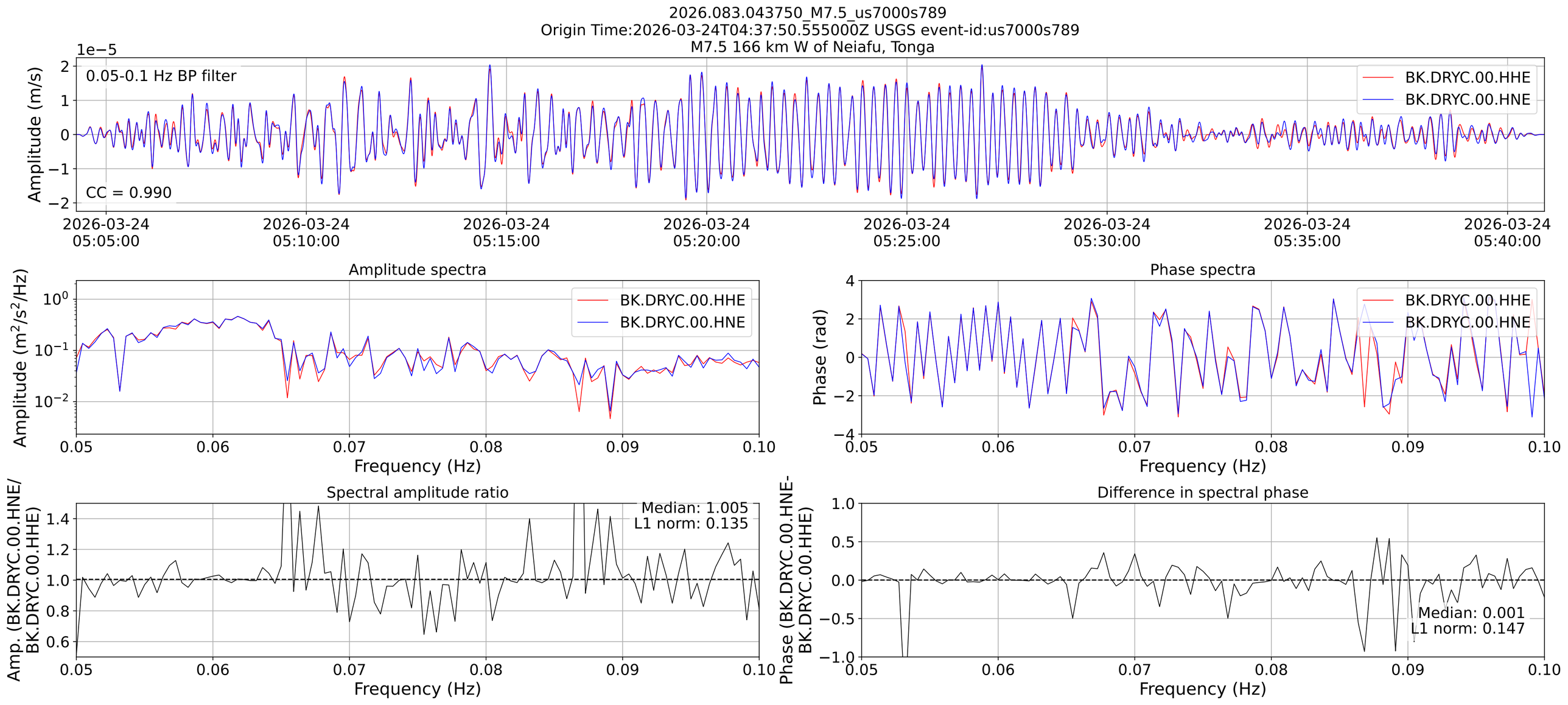

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.921
BK.DMOR.00.HHN
BK.DMOR.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNN/ BK.DMOR.00.HHN)
Median: 1.093
L1 norm: 0.417
Difference in spectral phase
Phase (BK.DMOR.00.HNN- BK.DMOR.00.HHN)
Median: 0.019
L1 norm: 0.293

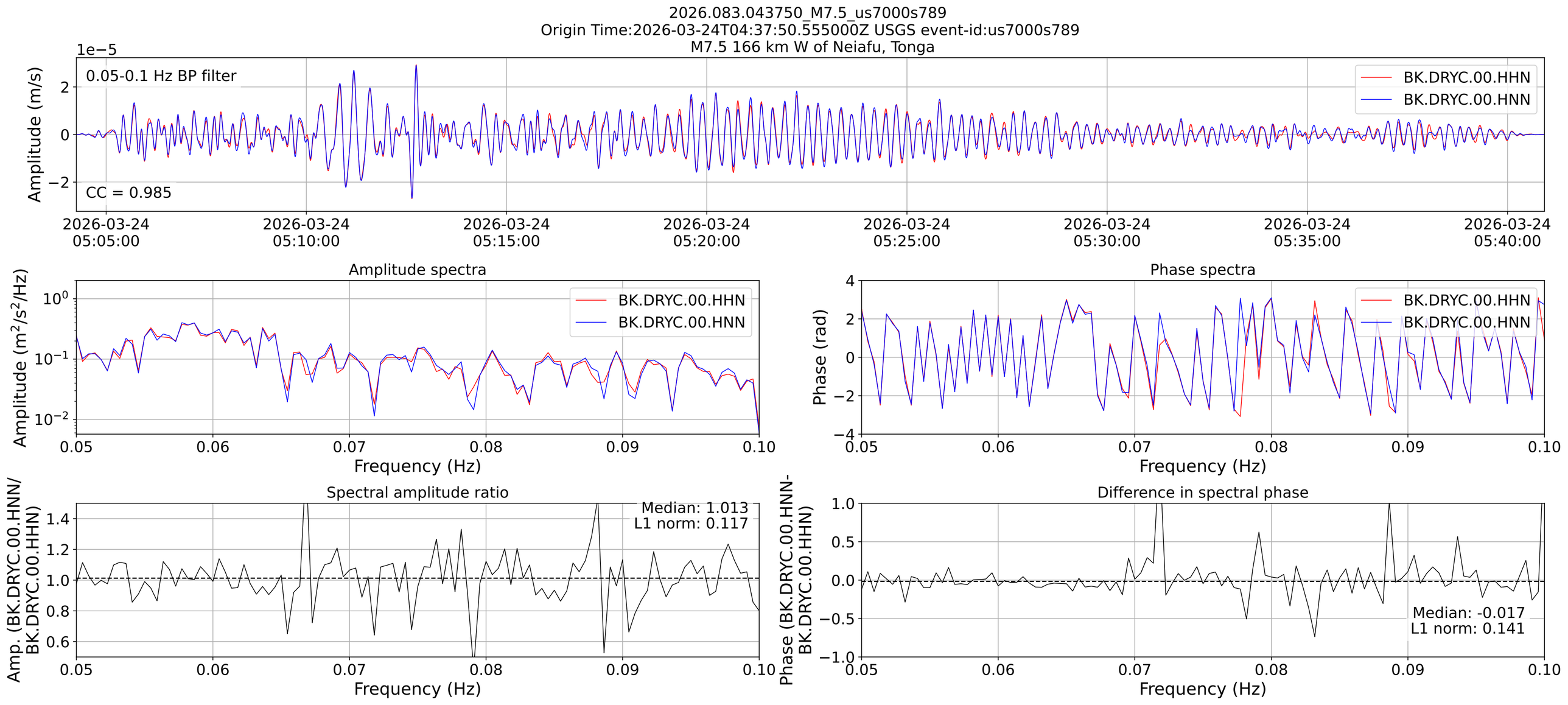

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.978
BK.DMOR.00.HHZ
BK.DMOR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DMOR.00.HNZ/ BK.DMOR.00.HHZ)
Median: 1.099
L1 norm: 0.539
Difference in spectral phase
Phase (BK.DMOR.00.HNZ- BK.DMOR.00.HHZ)
Median: -0.014
L1 norm: 0.356

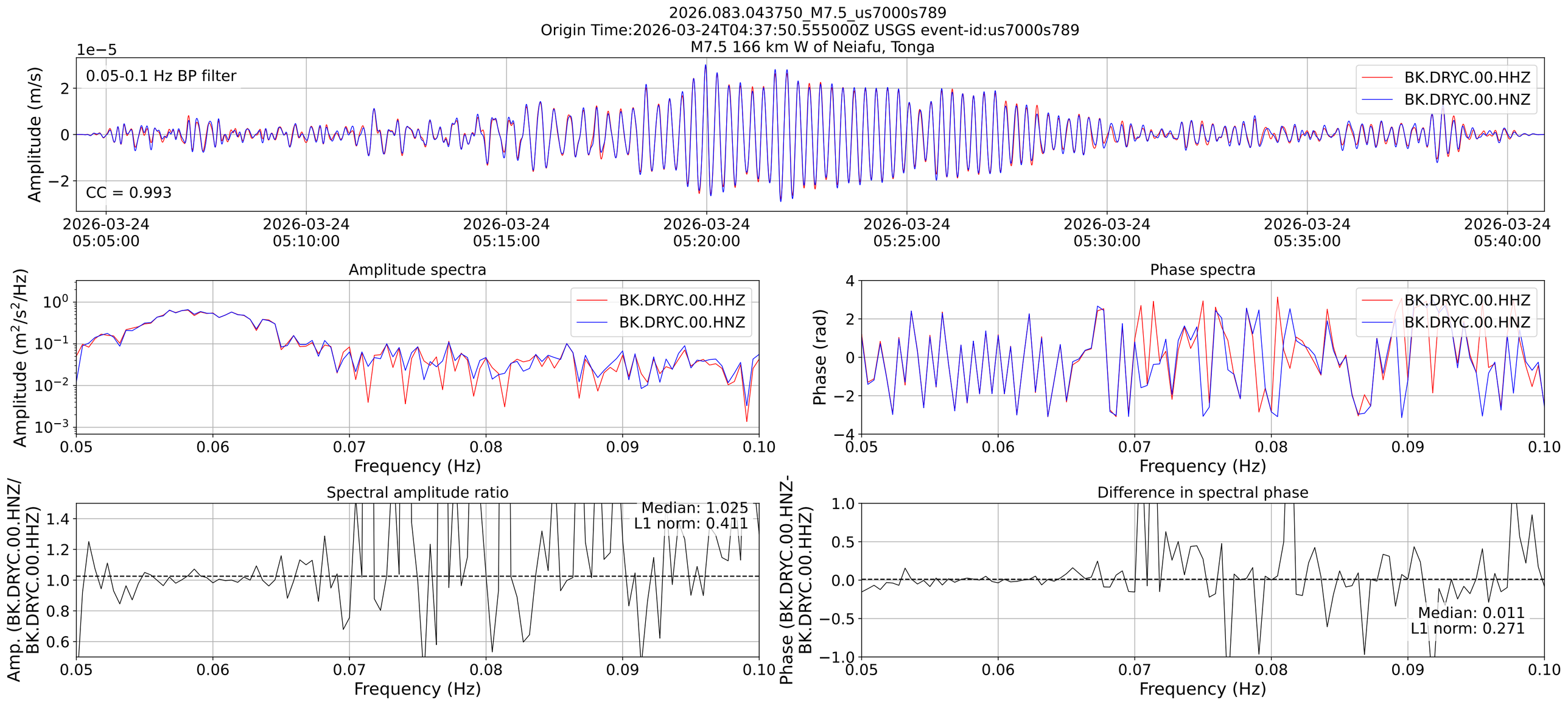

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.967
Amplitude (m/s)
BK.DRDG.00.HHE
BK.DRDG.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNE/ BK.DRDG.00.HHE)
Median: 1.014
L1 norm: 0.208
Difference in spectral phase
Phase (BK.DRDG.00.HNE- BK.DRDG.00.HHE)
Median: -0.004
L1 norm: 0.216

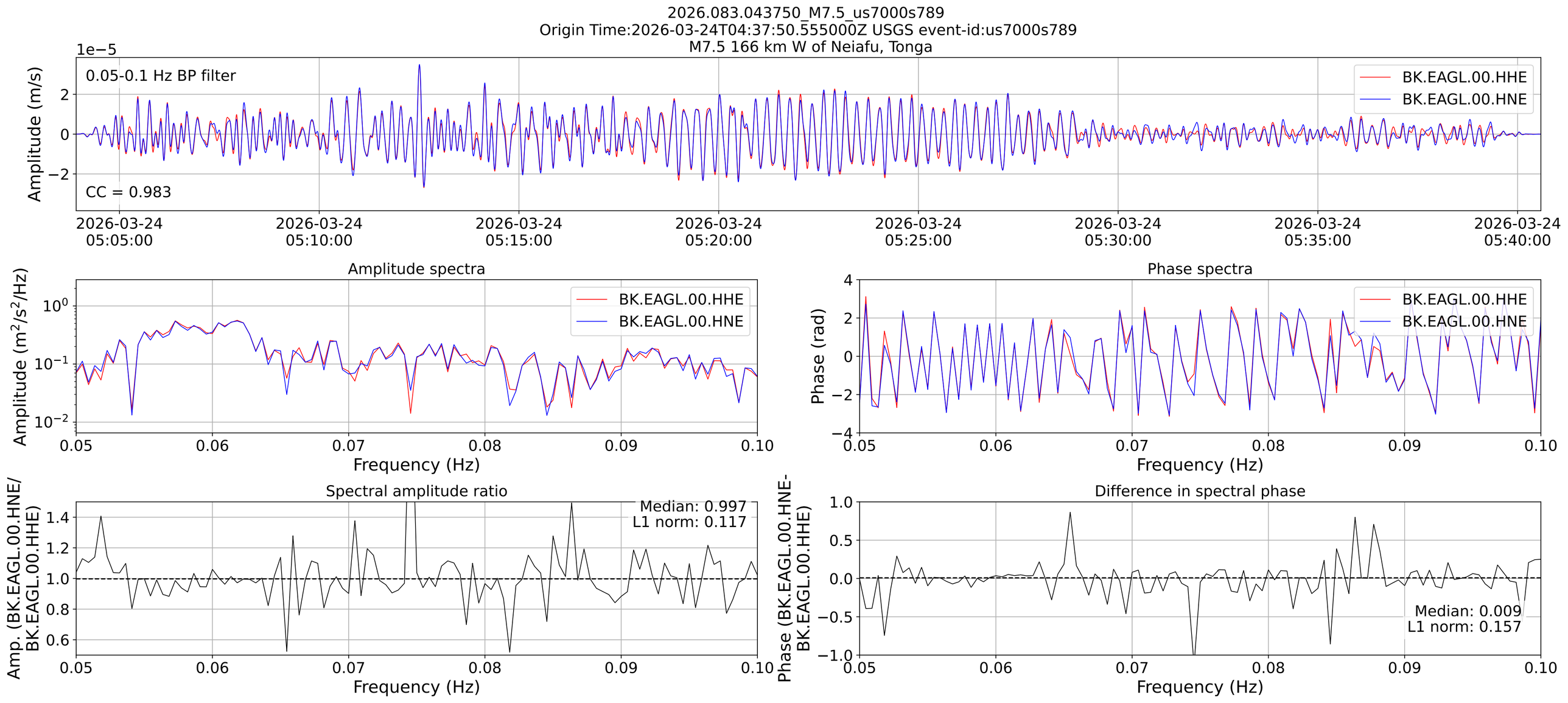

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.967
Amplitude (m/s)
BK.DRDG.00.HHN
BK.DRDG.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNN/ BK.DRDG.00.HHN)
Median: 1.016
L1 norm: 0.298
Difference in spectral phase
Phase (BK.DRDG.00.HNN- BK.DRDG.00.HHN)
Median: 0.001
L1 norm: 0.276

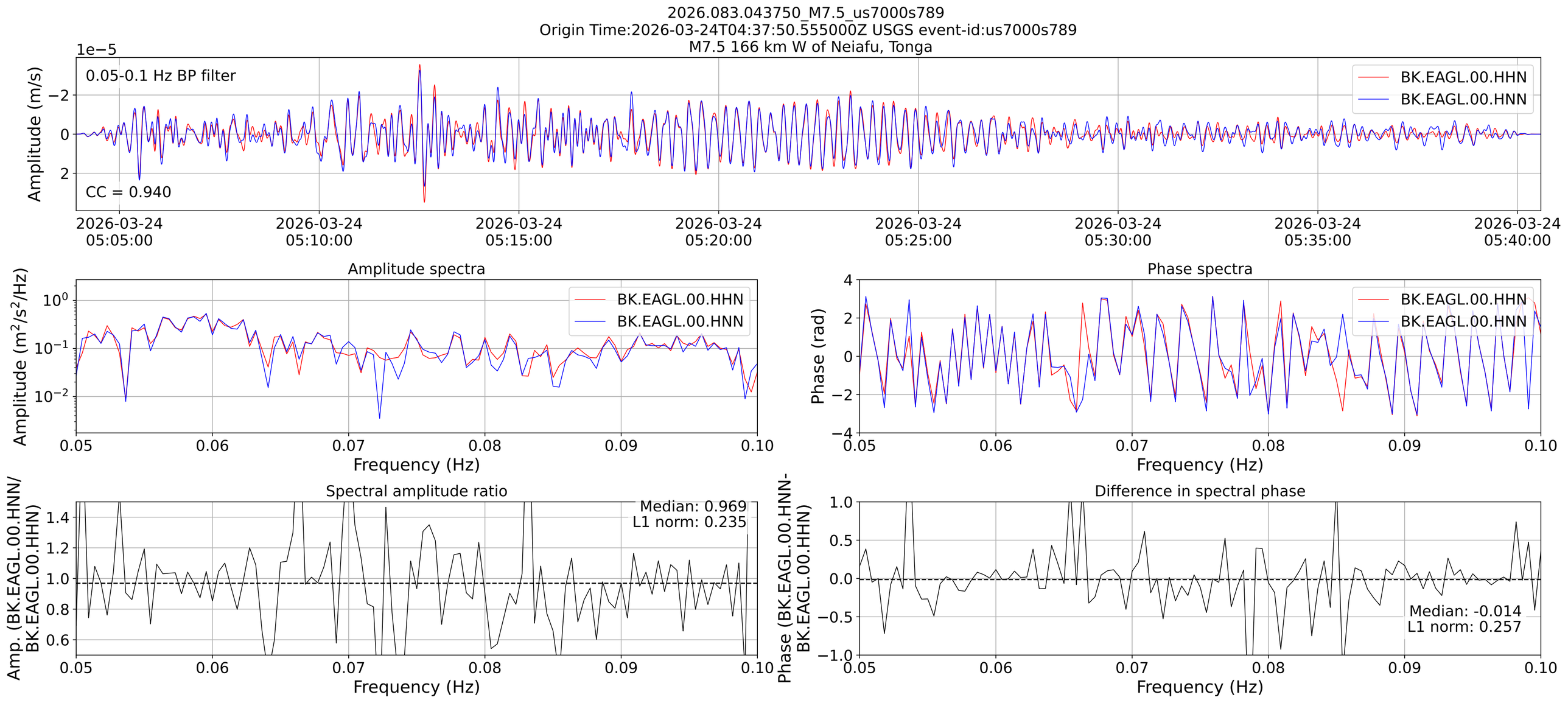

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.DRDG.00.HHZ
BK.DRDG.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRDG.00.HNZ/ BK.DRDG.00.HHZ)
Median: 0.981
L1 norm: 0.245
Difference in spectral phase
Phase (BK.DRDG.00.HNZ-BK.DRDG.00.HHZ)
Median: -0.030
L1 norm: 0.212

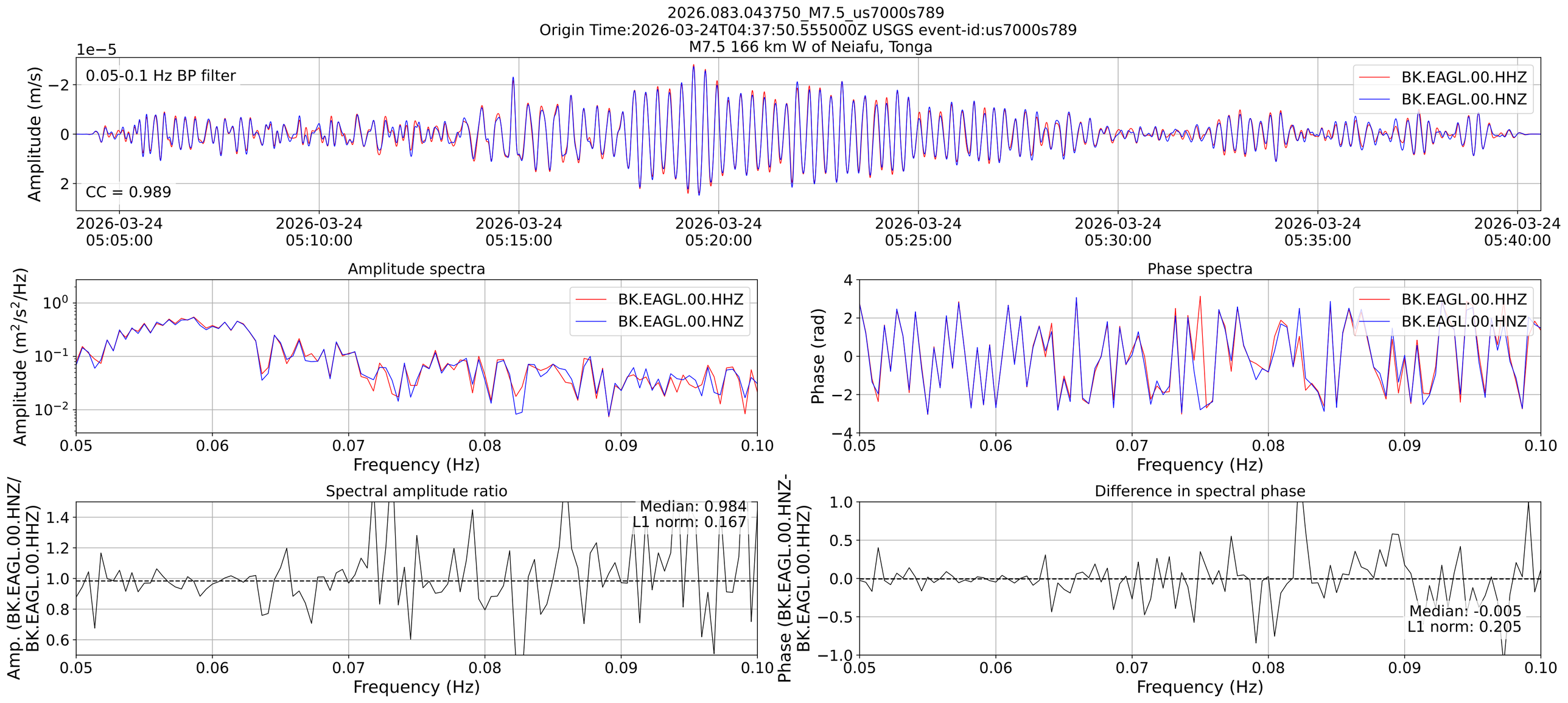

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.DRYC.00.HHE
BK.DRYC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.005
L1 norm: 0.135
Amp. (BK.DRYC.00.HNE/ BK.DRYC.00.HHE)
Difference in spectral phase
Phase (BK.DRYC.00.HNE- BK.DRYC.00.HHE)
Median: 0.001
L1 norm: 0.147

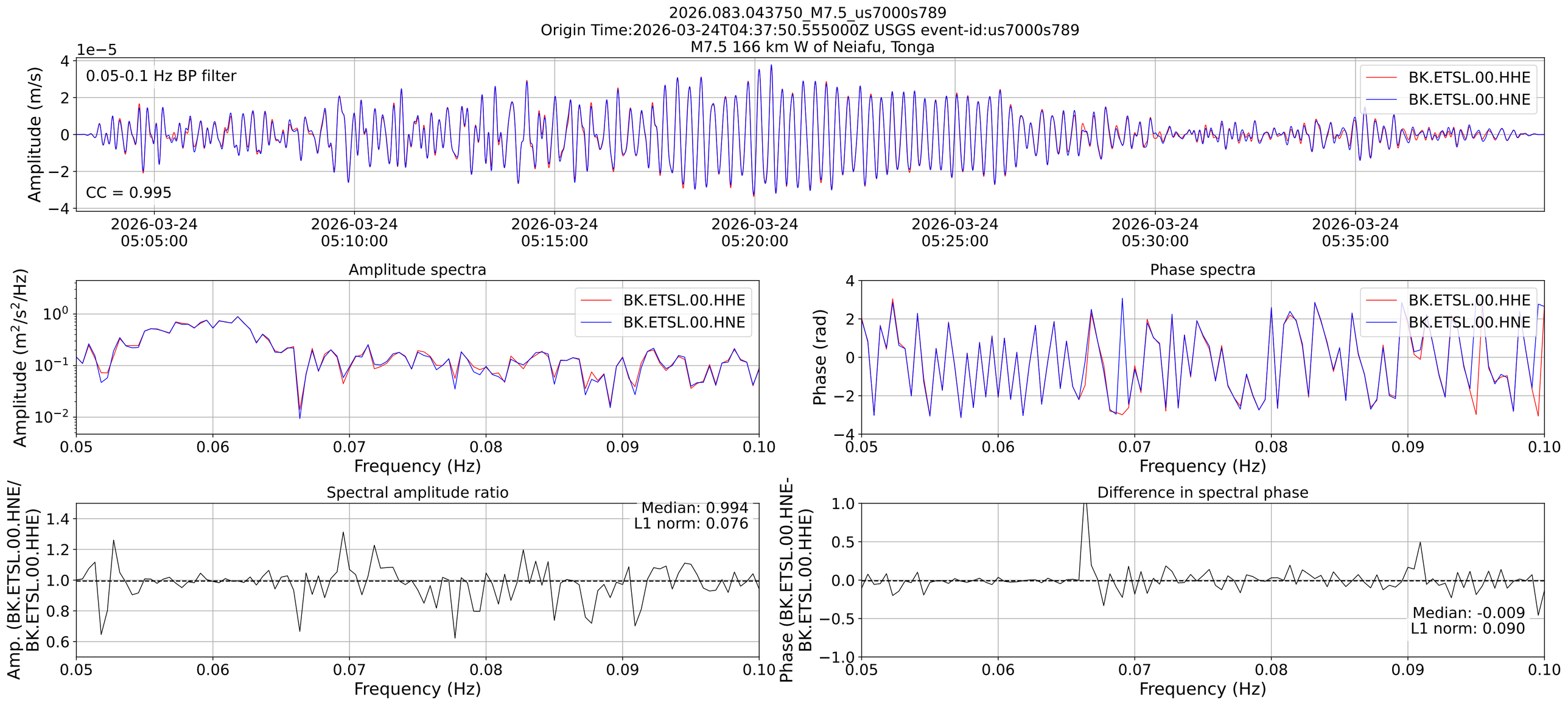

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
BK.DRYC.00.HHN
BK.DRYC.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.013
L1 norm: 0.117
Amp. (BK.DRYC.00.HNN/ BK.DRYC.00.HHN)
Difference in spectral phase
Phase (BK.DRYC.00.HNN- BK.DRYC.00.HHN)
Median: -0.017
L1 norm: 0.141

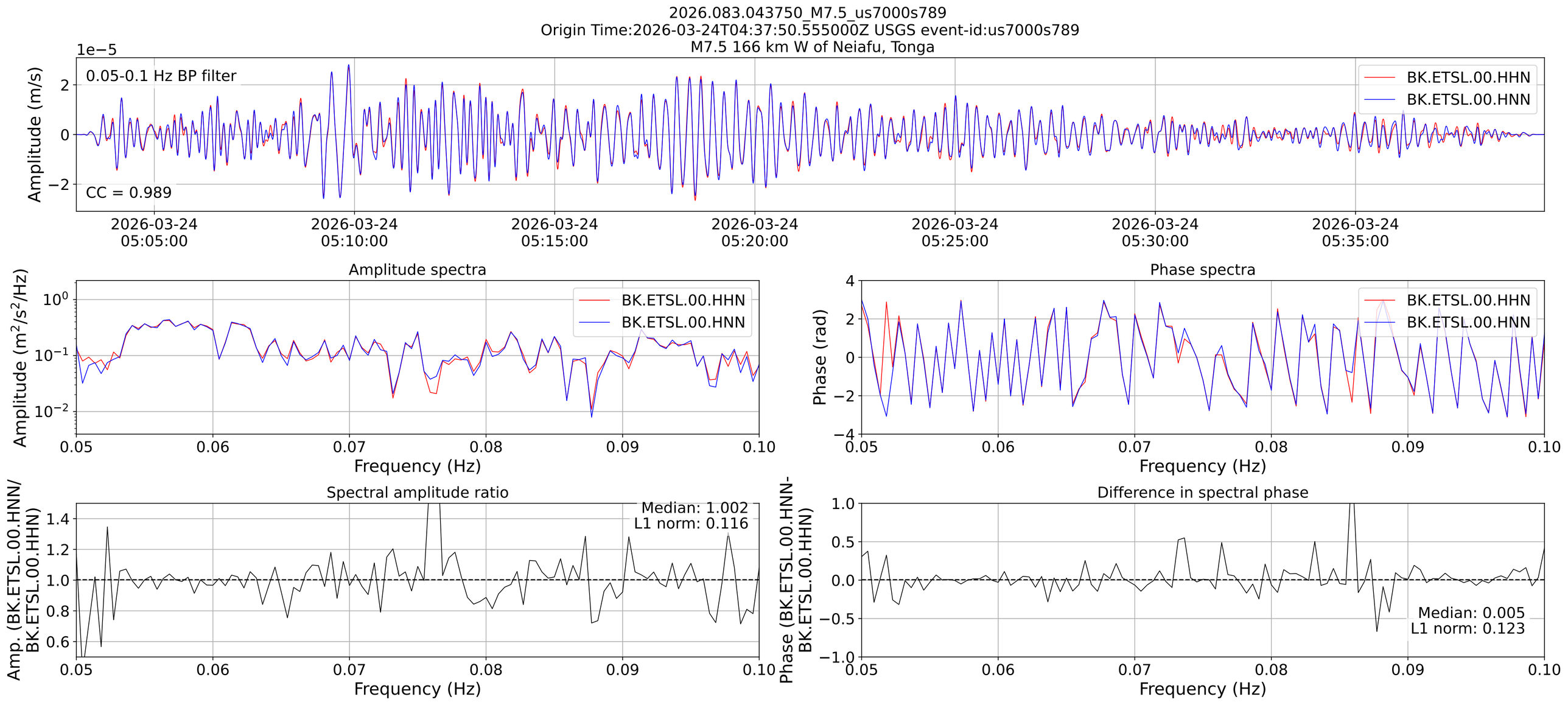

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.DRYC.00.HHZ
BK.DRYC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.DRYC.00.HNZ/ BK.DRYC.00.HHZ)
Median: 1.025
L1 norm: 0.411
Difference in spectral phase
Phase (BK.DRYC.00.HNZ-BK.DRYC.00.HHZ)
Median: 0.011
L1 norm: 0.271

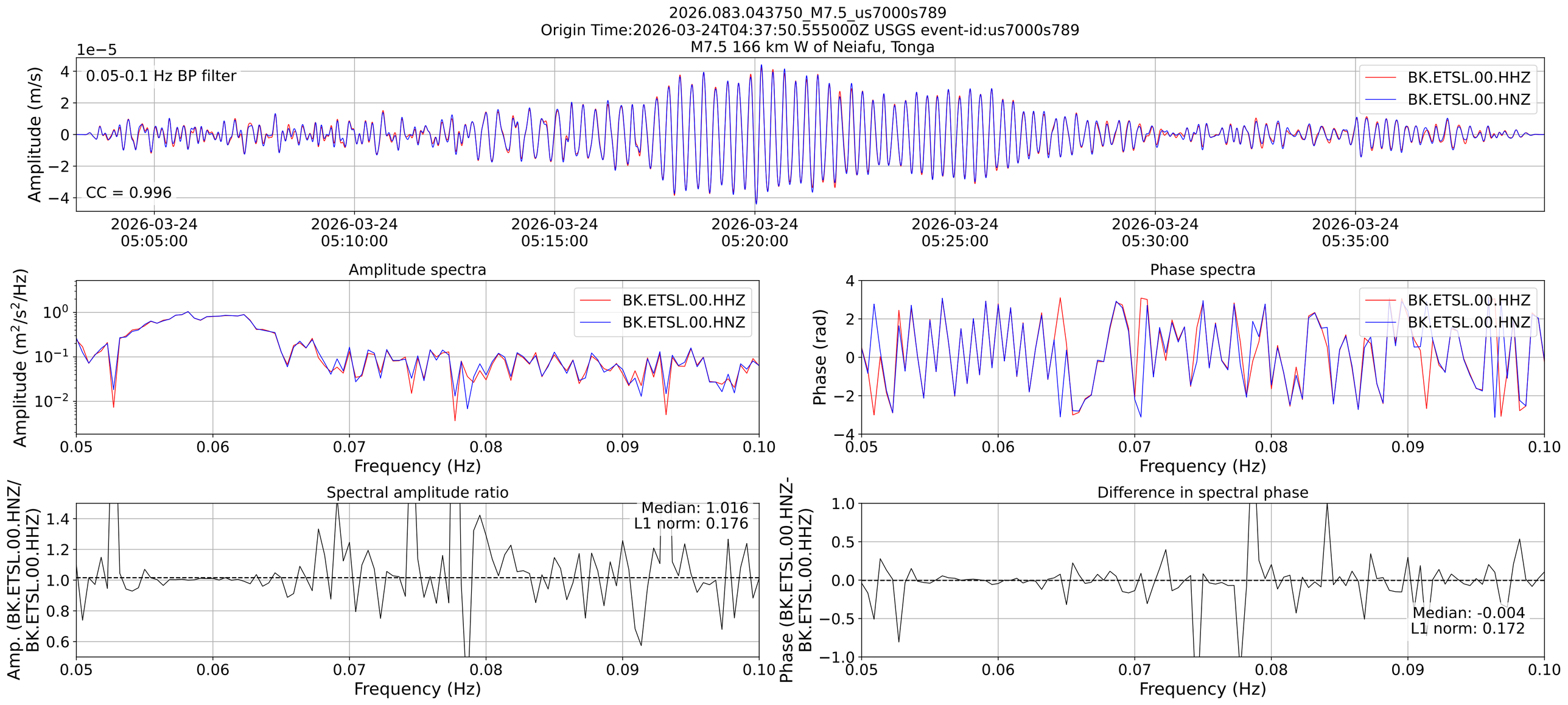

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
BK.EAGL.00.HHE
BK.EAGL.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.EAGL.00.HNE/ BK.EAGL.00.HHE)
Median: 0.997
L1 norm: 0.117
Difference in spectral phase
Phase (BK.EAGL.00.HNE- BK.EAGL.00.HHE)
Median: 0.009
L1 norm: 0.157

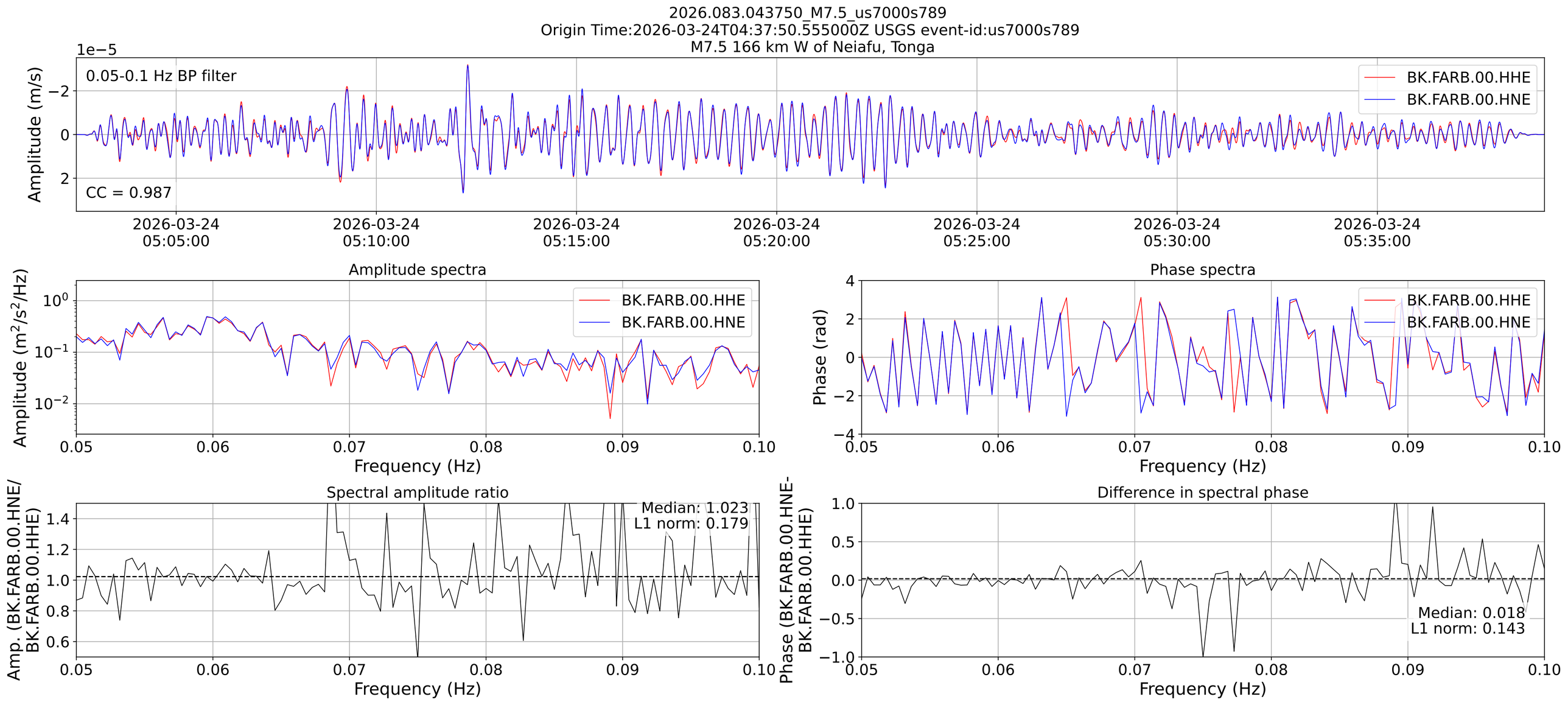

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.940
BK.EAGL.00.HHN
BK.EAGL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.EAGL.00.HNN/ BK.EAGL.00.HHN)
Median: 0.969
L1 norm: 0.235
Difference in spectral phase
Phase (BK.EAGL.00.HNN- BK.EAGL.00.HHN)
Median: -0.014
L1 norm: 0.257

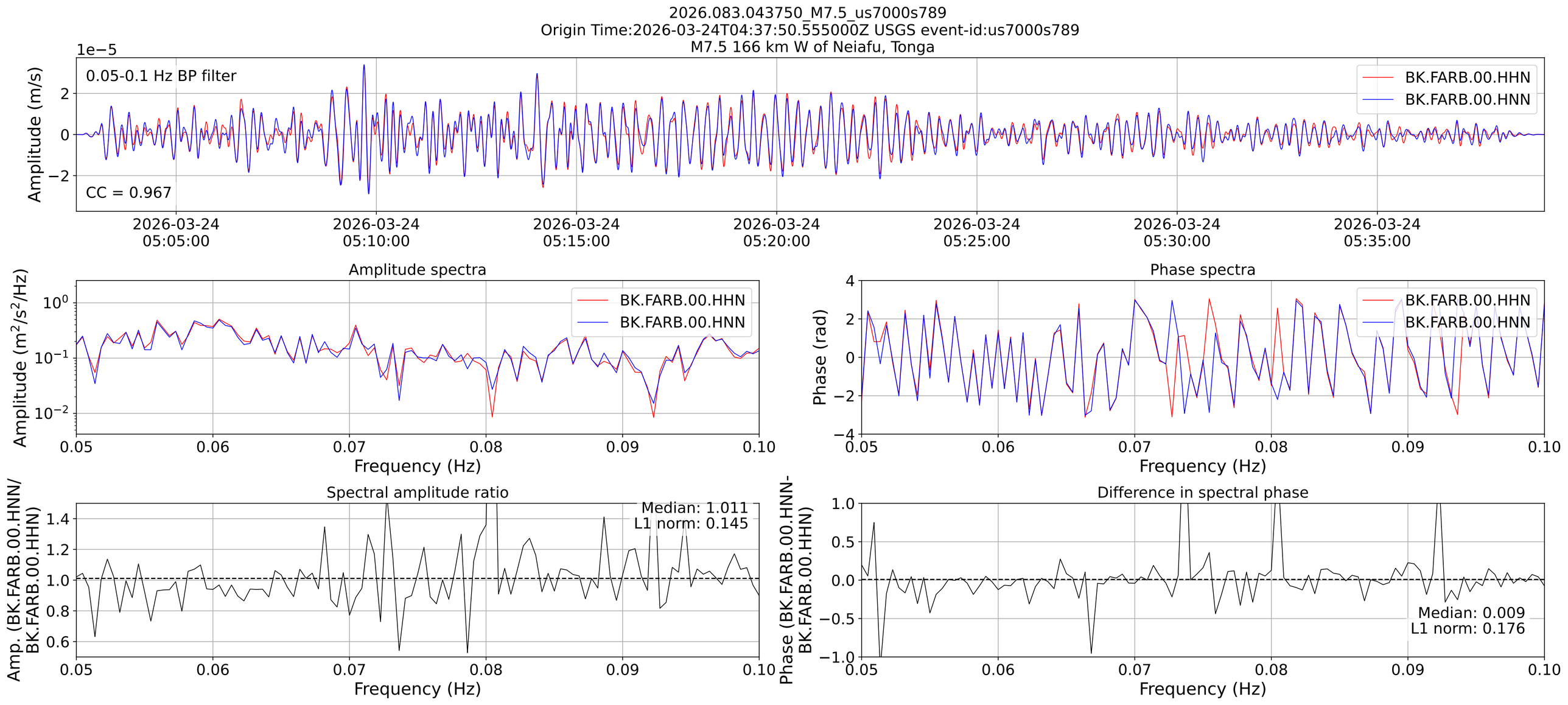

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.EAGL.00.HHZ
BK.EAGL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 0.984
L1 norm: 0.167
Amp. (BK.EAGL.00.HNZ/ BK.EAGL.00.HHZ)
Difference in spectral phase
Phase (BK.EAGL.00.HNZ- BK.EAGL.00.HHZ)
Median: -0.005
L1 norm: 0.205

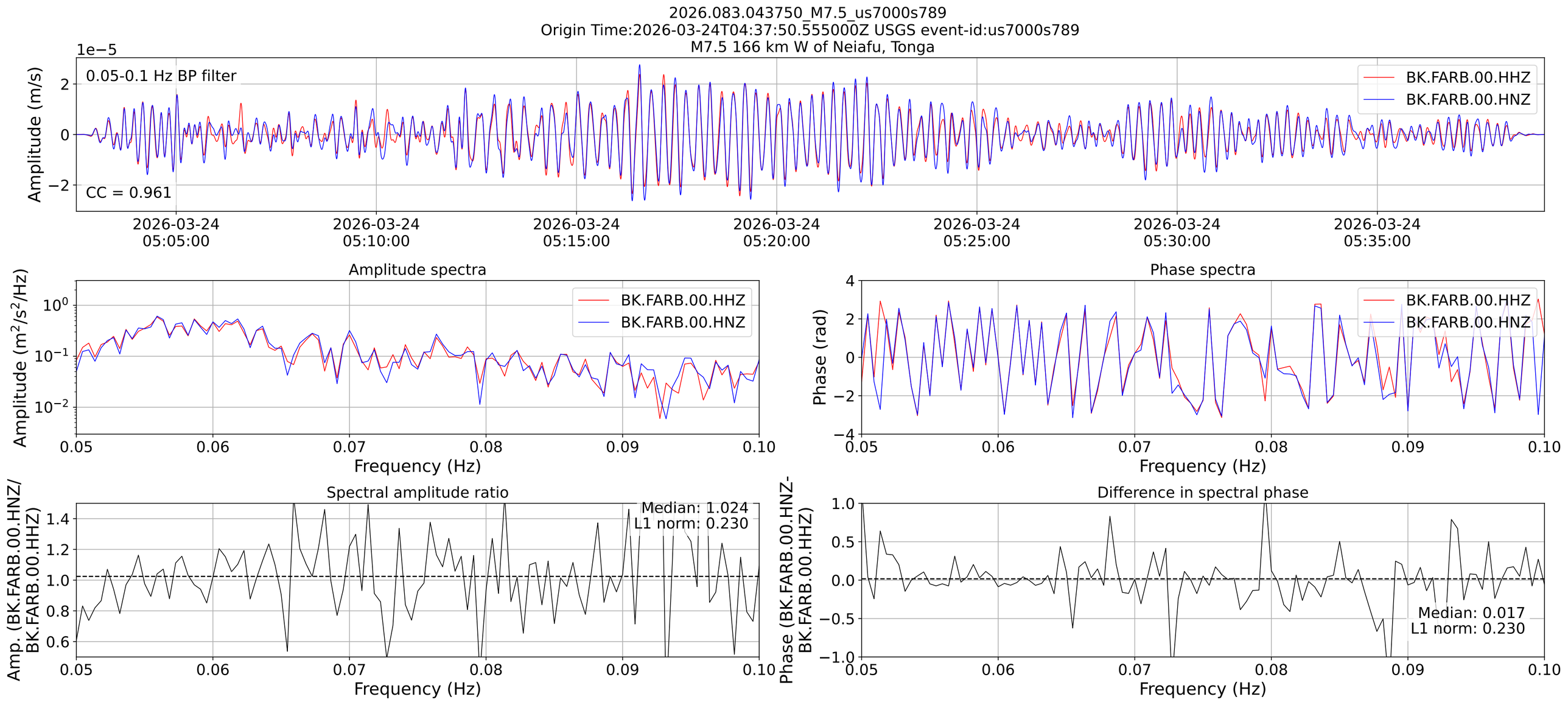

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.ETSL.00.HHE
BK.ETSL.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNE/ BK.ETSL.00.HHE)
Median: 0.994
L1 norm: 0.076
Difference in spectral phase
Phase (BK.ETSL.00.HNE- BK.ETSL.00.HHE)
Median: -0.009
L1 norm: 0.090

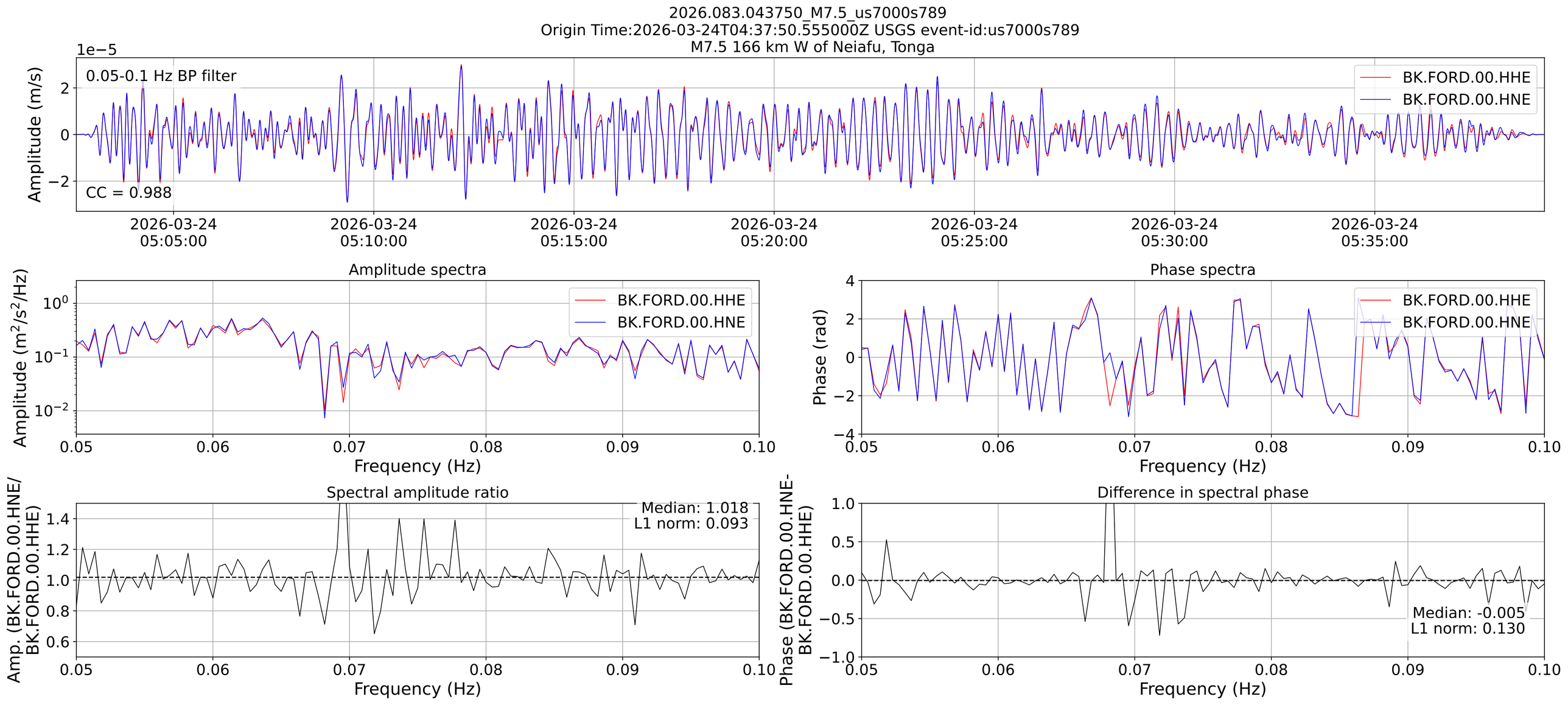

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.ETSL.00.HHN
BK.ETSL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNN/ BK.ETSL.00.HHN)
Median: 1.002
L1 norm: 0.116
Difference in spectral phase
Phase (BK.ETSL.00.HNN- BK.ETSL.00.HHN)
Median: 0.005
L1 norm: 0.123

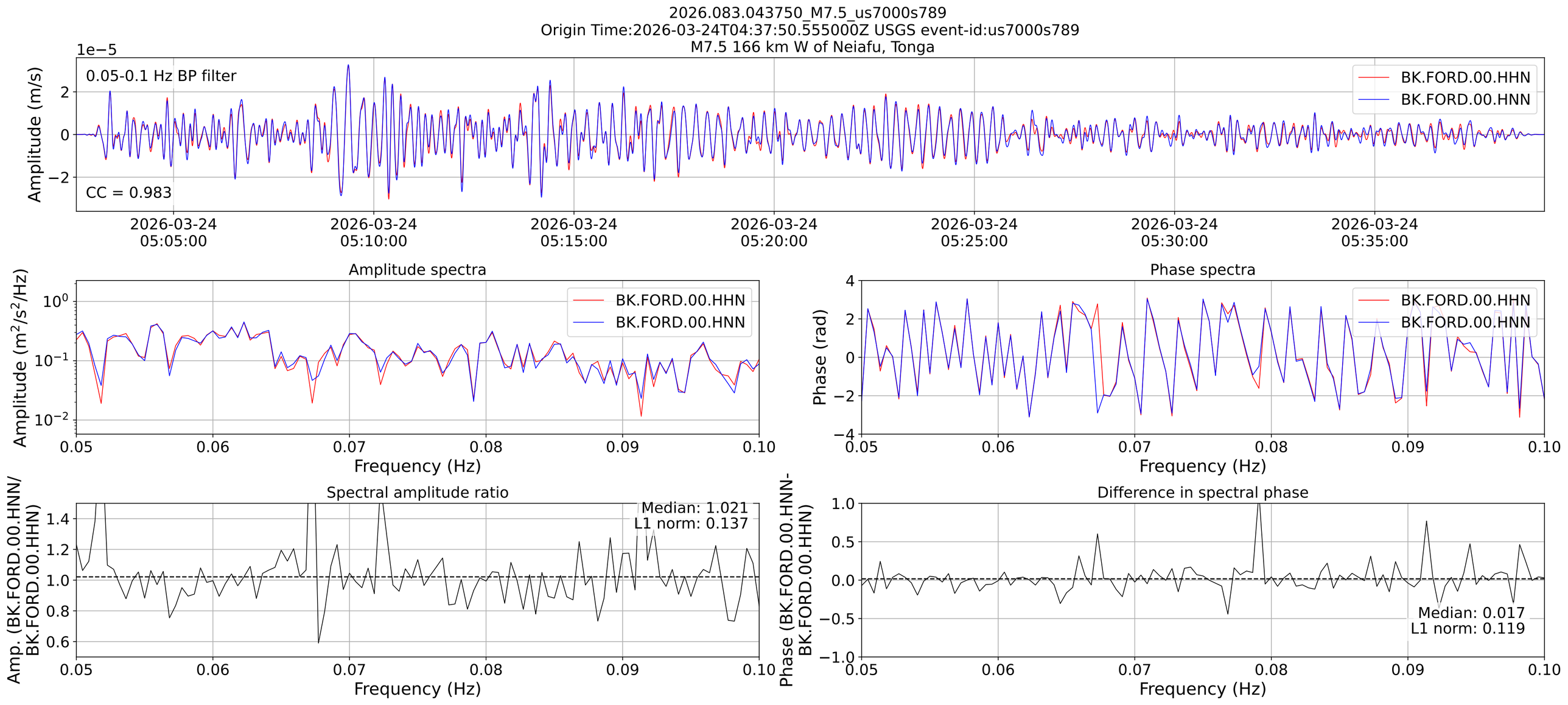

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.ETSL.00.HHZ
BK.ETSL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ETSL.00.HNZ/ BK.ETSL.00.HHZ)
Median: 1.016
L1 norm: 0.176
Difference in spectral phase
Phase (BK.ETSL.00.HNZ- BK.ETSL.00.HHZ)
Median: -0.004
L1 norm: 0.172

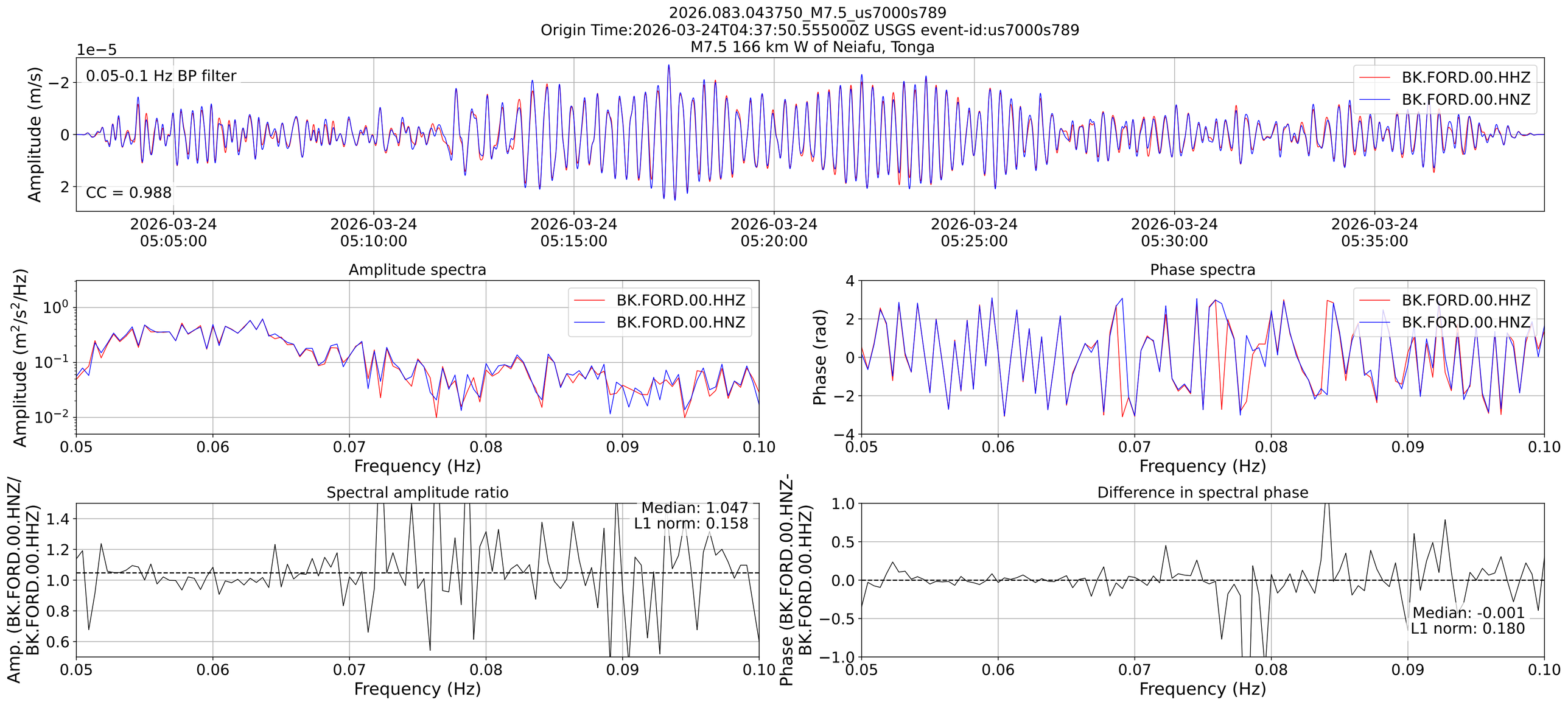

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.987
BK.FARB.00.HHE
BK.FARB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FARB.00.HNE/ BK.FARB.00.HHE)
Median: 1.023
L1 norm: 0.179
Difference in spectral phase
Phase (BK.FARB.00.HNE- BK.FARB.00.HHE)
Median: 0.018
L1 norm: 0.143

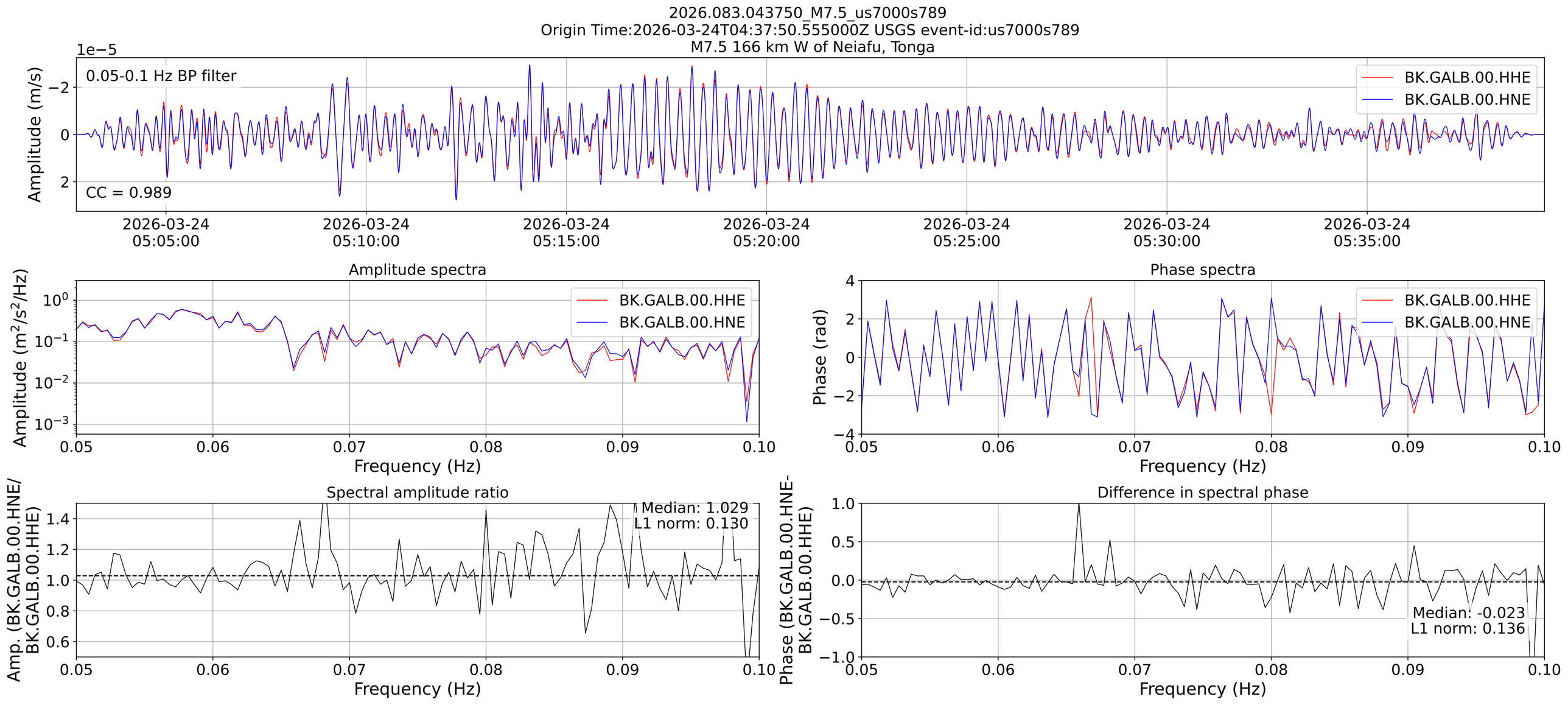

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.967
BK.FARB.00.HHN
BK.FARB.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.011
L1 norm: 0.145
Amp. (BK.FARB.00.HNN/ BK.FARB.00.HHN)
Difference in spectral phase
Phase (BK.FARB.00.HNN-BK.FARB.00.HHN)
Median: 0.009
L1 norm: 0.176

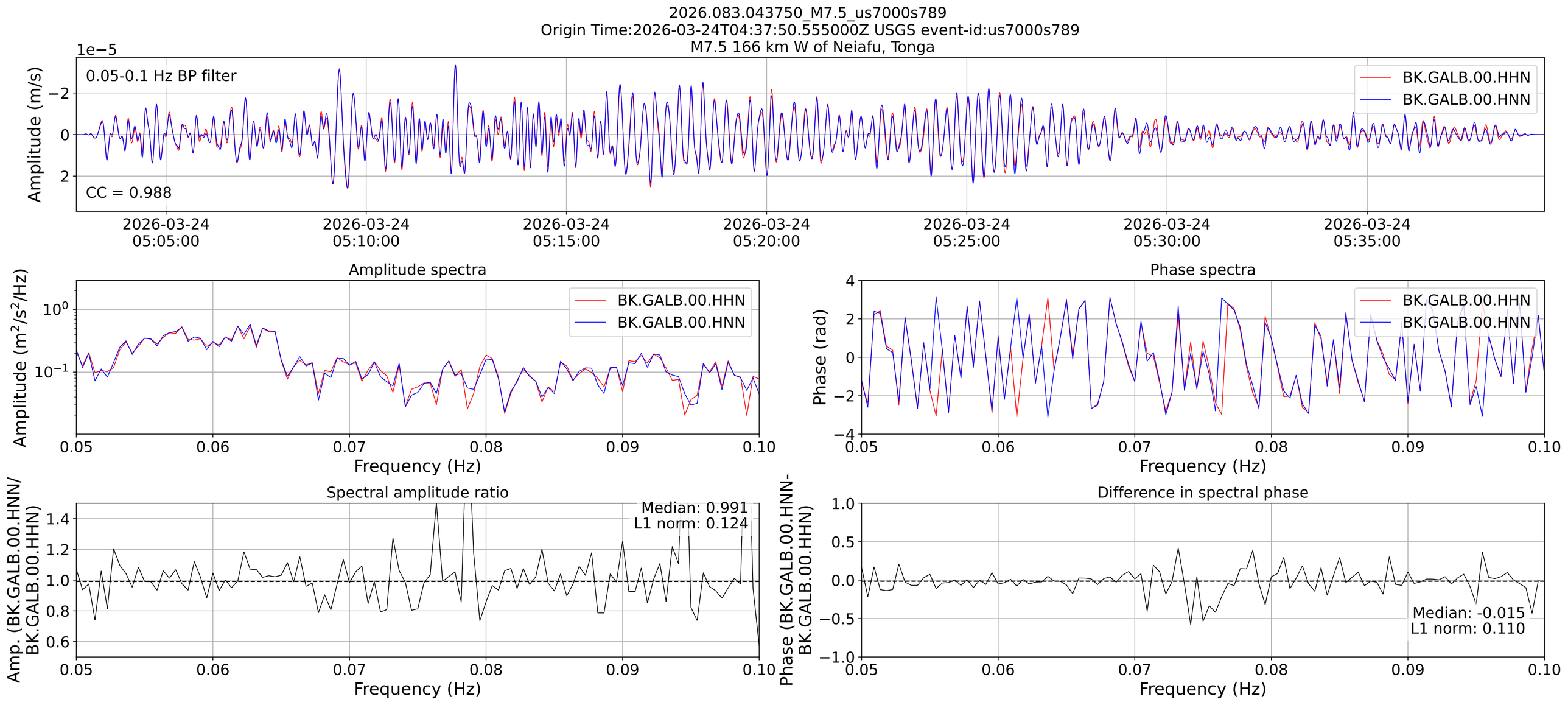

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
Amplitude (m/s)
BK.FARB.00.HHZ
BK.FARB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FARB.00.HNZ/ BK.FARB.00.HHZ)
Median: 1.024
L1 norm: 0.230
Difference in spectral phase
Phase (BK.FARB.00.HNZ- BK.FARB.00.HHZ)
Median: 0.017
L1 norm: 0.230

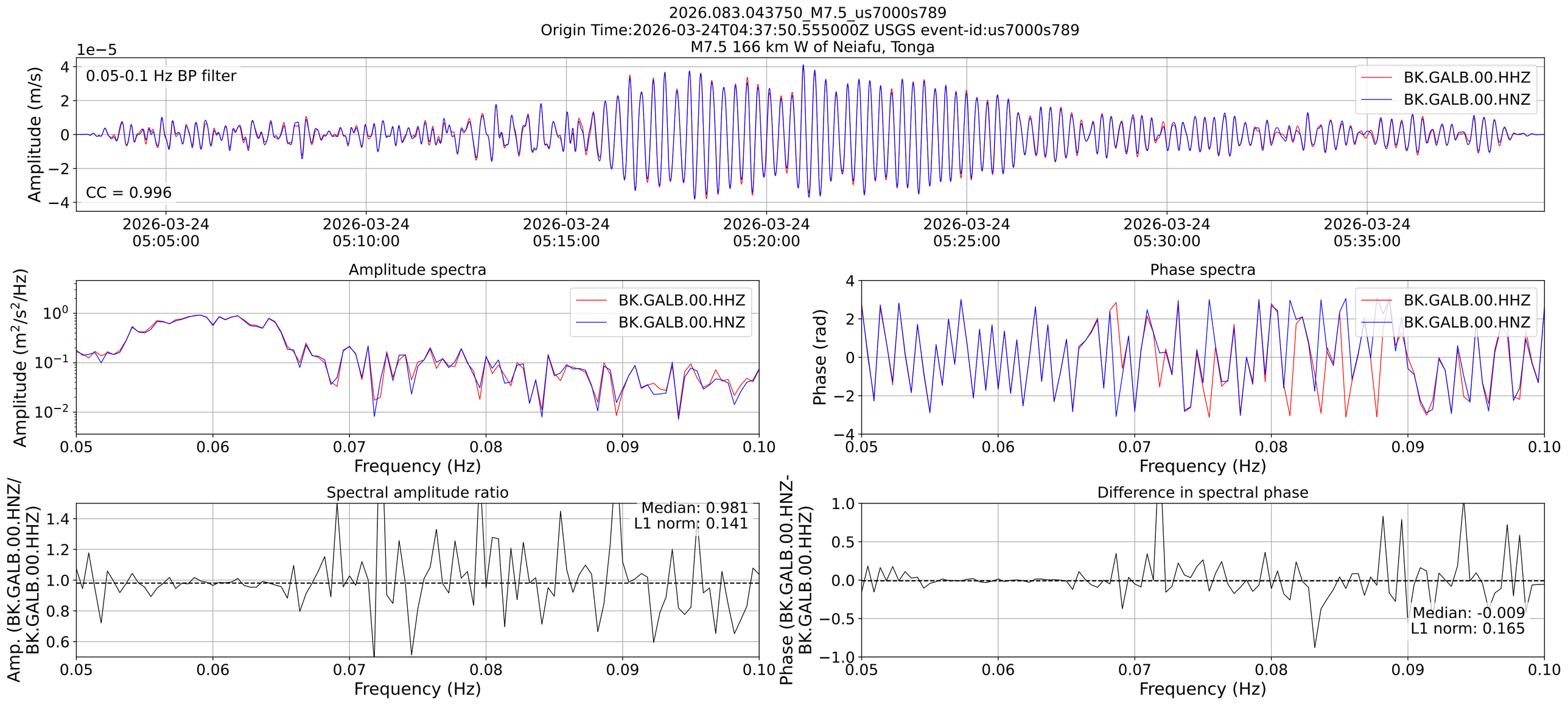

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.FORD.00.HHE
BK.FORD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNE/ BK.FORD.00.HHE)
Median: 1.018
L1 norm: 0.093
Difference in spectral phase
Phase (BK.FORD.00.HNE- BK.FORD.00.HHE)
Median: -0.005
L1 norm: 0.130

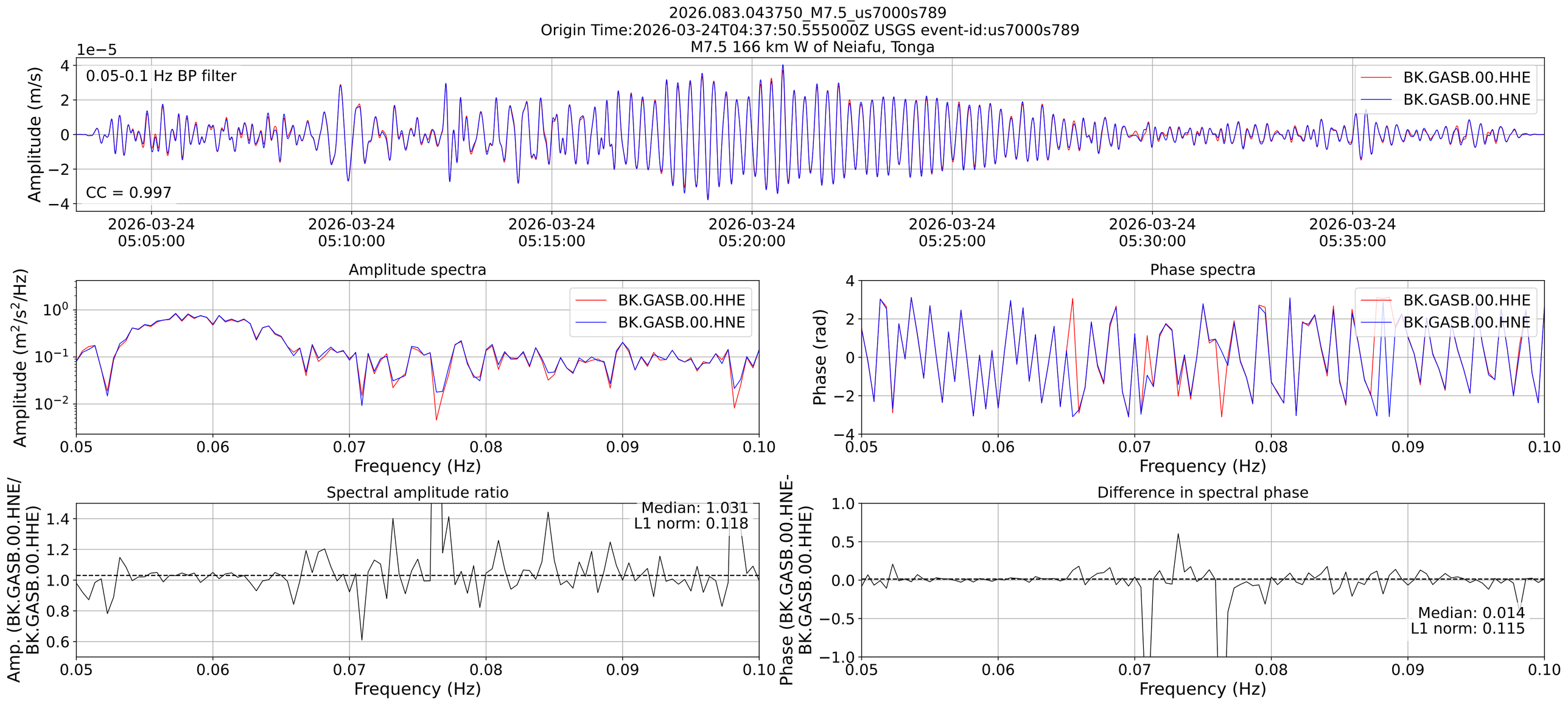

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.FORD.00.HHN
BK.FORD.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNN/ BK.FORD.00.HHN)
Median: 1.021
L1 norm: 0.137
Difference in spectral phase
Phase (BK.FORD.00.HNN- BK.FORD.00.HHN)
Median: 0.017
L1 norm: 0.119

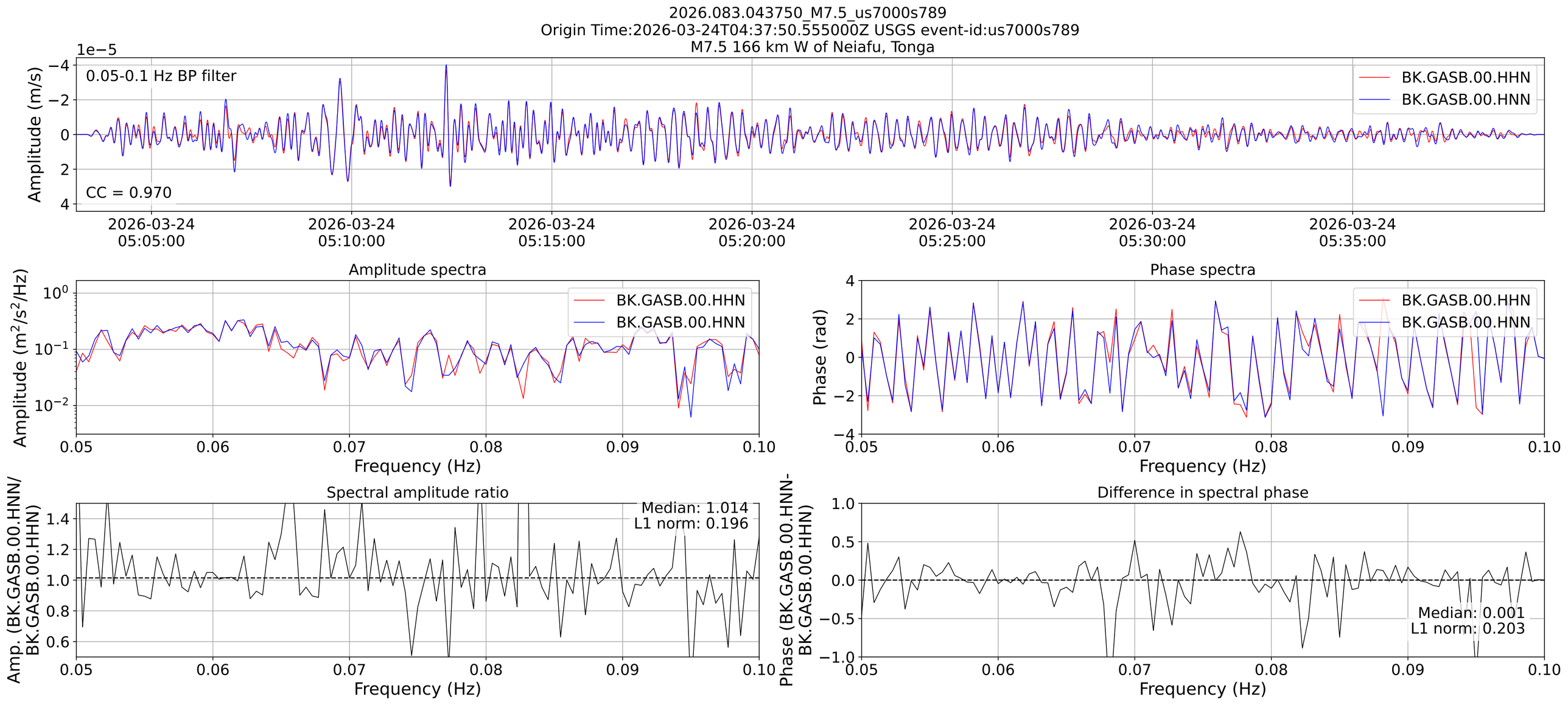

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.FORD.00.HHZ
BK.FORD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.FORD.00.HNZ/ BK.FORD.00.HHZ)
Median: 1.047
L1 norm: 0.158
Difference in spectral phase
Phase (BK.FORD.00.HNZ- BK.FORD.00.HHZ)
Median: -0.001
L1 norm: 0.180

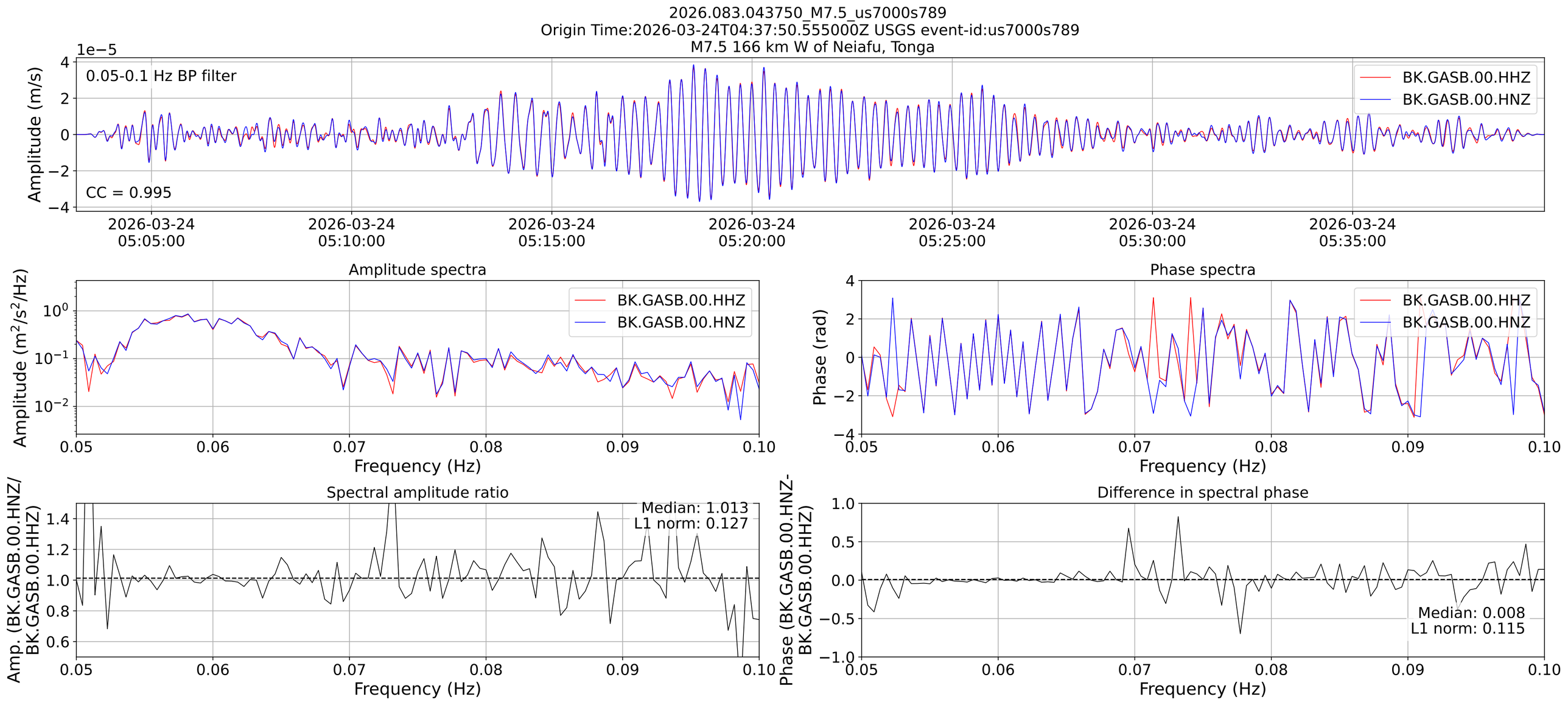

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.GALB.00.HHE
BK.GALB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNE/ BK.GALB.00.HHE)
Median: 1.029
L1 norm: 0.130
Difference in spectral phase
Phase (BK.GALB.00.HNE- BK.GALB.00.HHE)
Median: -0.023
L1 norm: 0.136

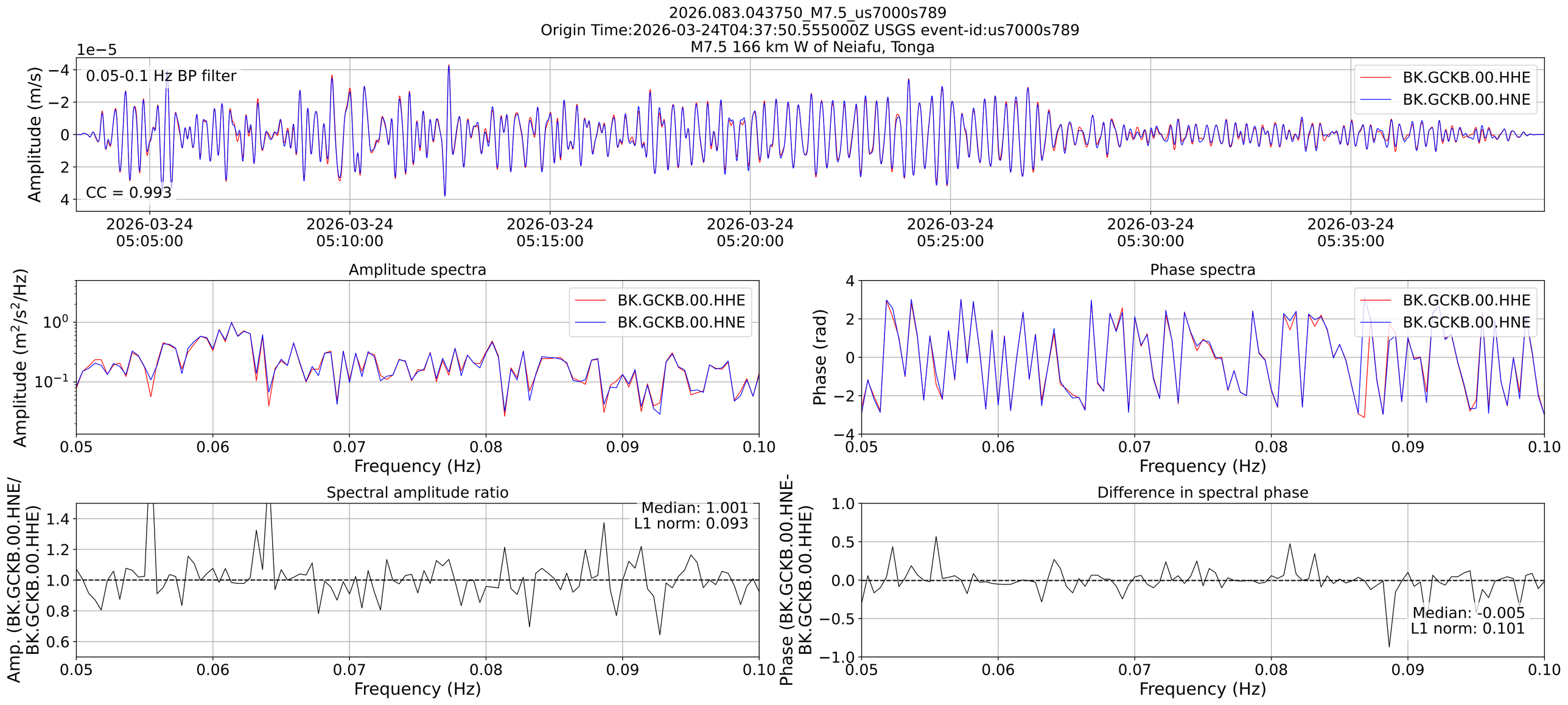

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.GALB.00.HHN
BK.GALB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNN/ BK.GALB.00.HHN)
Median: 0.991
L1 norm: 0.124
Difference in spectral phase
Phase (BK.GALB.00.HNN- BK.GALB.00.HHN)
Median: -0.015
L1 norm: 0.110

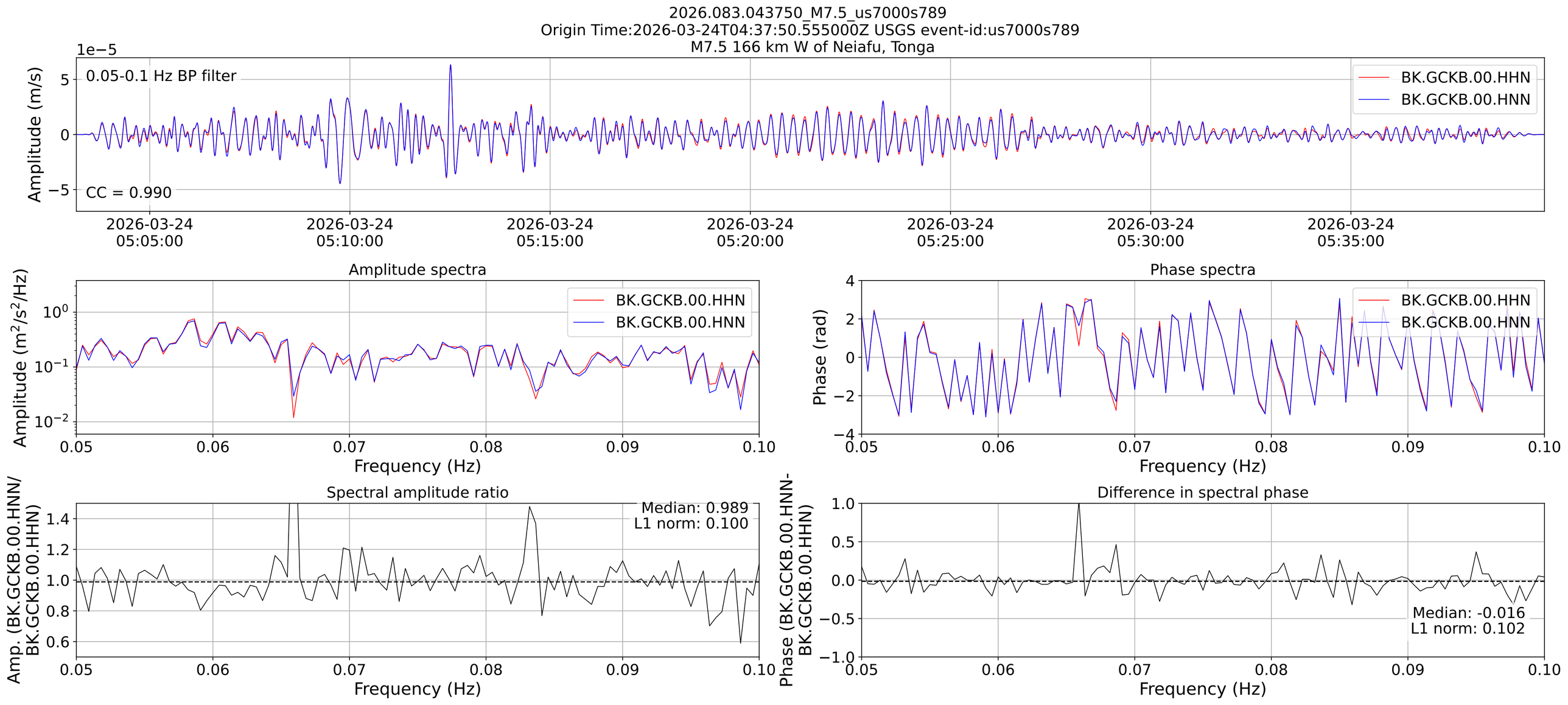

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.GALB.00.HHZ
BK.GALB.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GALB.00.HNZ/ BK.GALB.00.HHZ)
Median: 0.981
L1 norm: 0.141
Difference in spectral phase
Phase (BK.GALB.00.HNZ-BK.GALB.00.HHZ)
Median: -0.009
L1 norm: 0.165

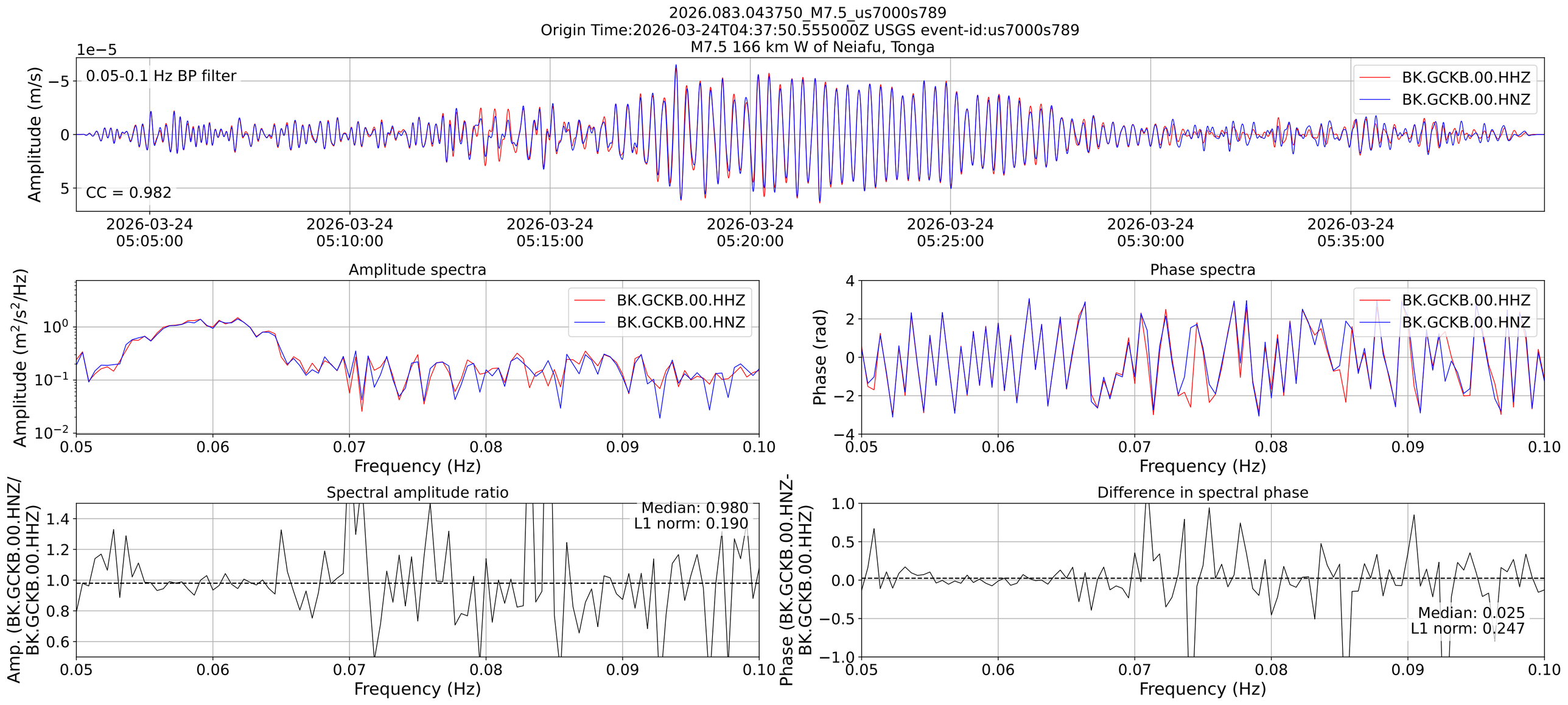

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.GASB.00.HHE
BK.GASB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GASB.00.HNE/ BK.GASB.00.HHE)
Median: 1.031
L1 norm: 0.118
Difference in spectral phase
Phase (BK.GASB.00.HNE- BK.GASB.00.HHE)
Median: 0.014
L1 norm: 0.115

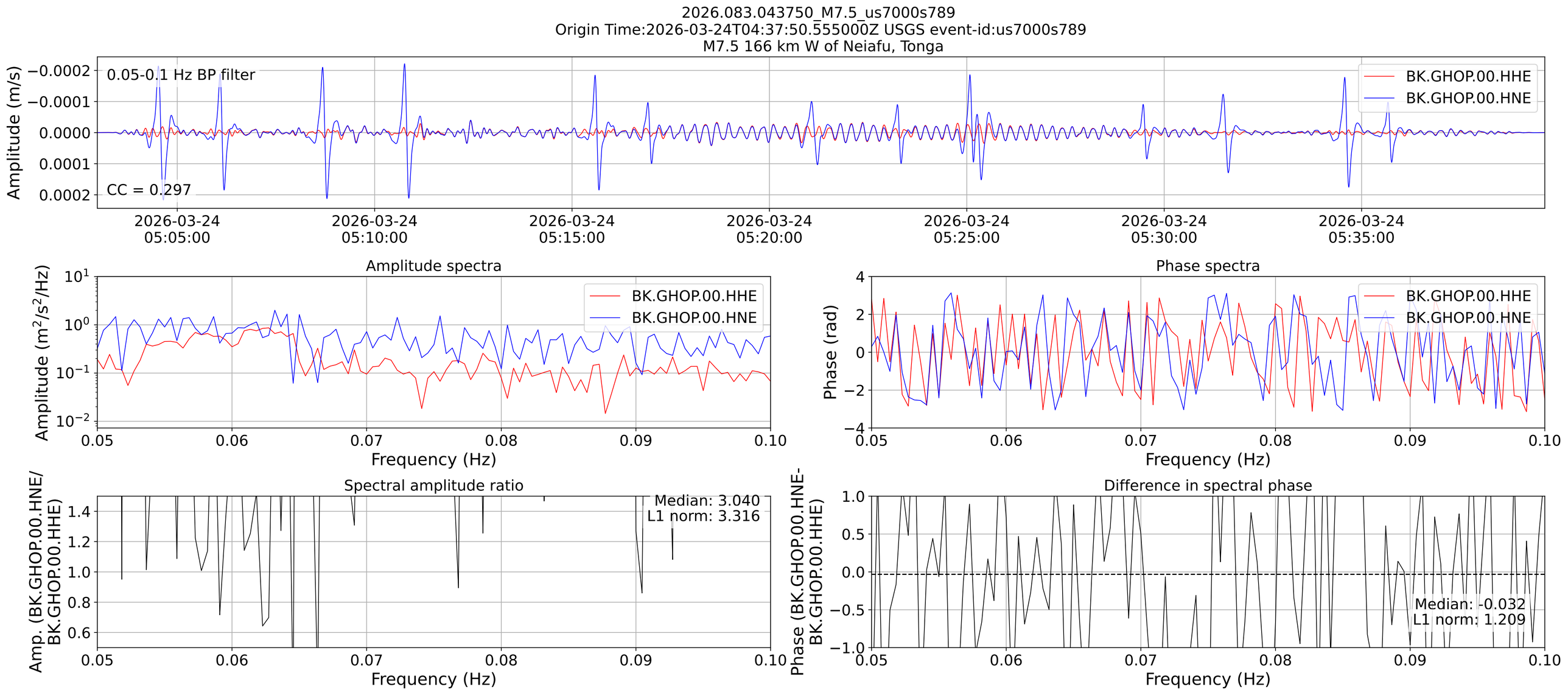

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.970
BK.GASB.00.HHN
BK.GASB.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GASB.00.HNN/ BK.GASB.00.HHN)
Median: 1.014
L1 norm: 0.196
Difference in spectral phase
Phase (BK.GASB.00.HNN- BK.GASB.00.HHN)
Median: 0.001
L1 norm: 0.203

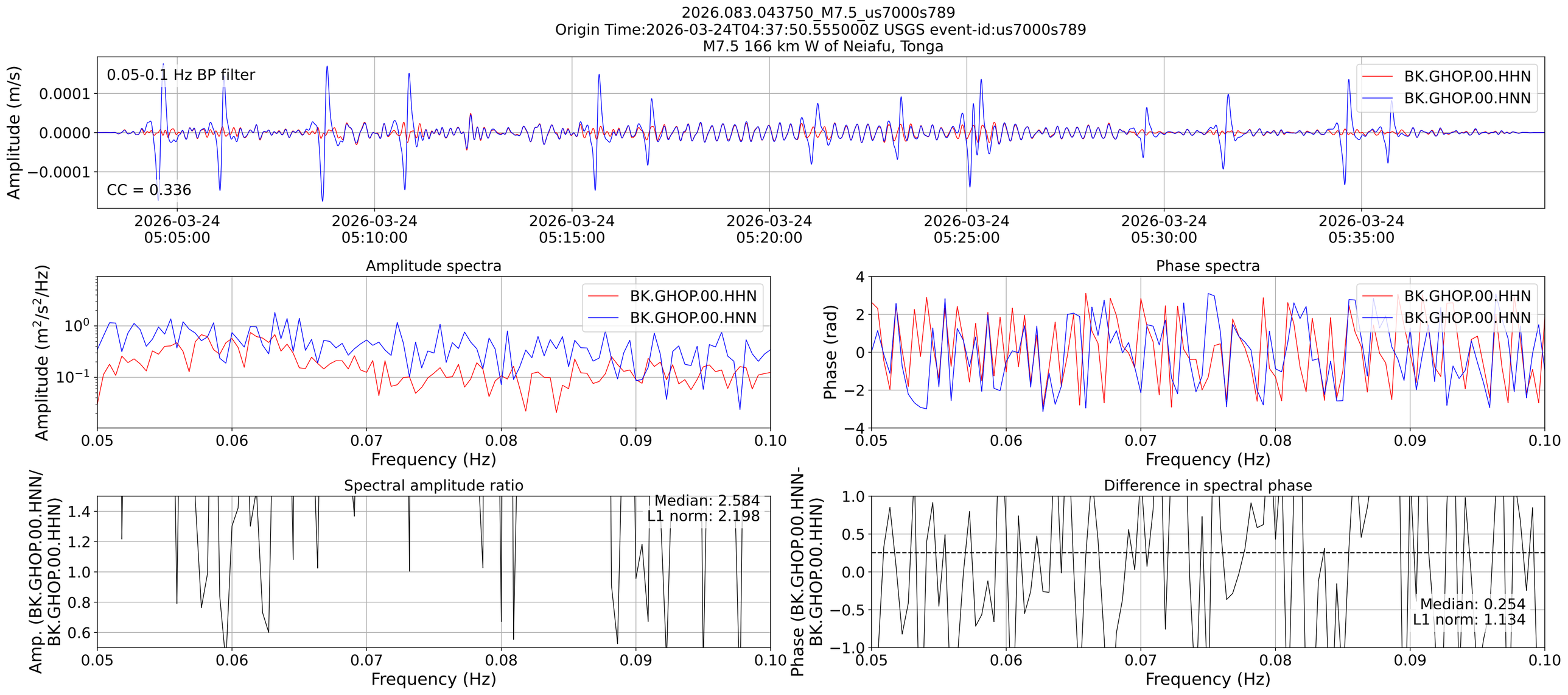

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.GASB.00.HHZ
BK.GASB.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.013
L1 norm: 0.127
Amp. (BK.GASB.00.HNZ/ BK.GASB.00.HHZ)
Difference in spectral phase
Phase (BK.GASB.00.HNZ- BK.GASB.00.HHZ)
Median: 0.008
L1 norm: 0.115

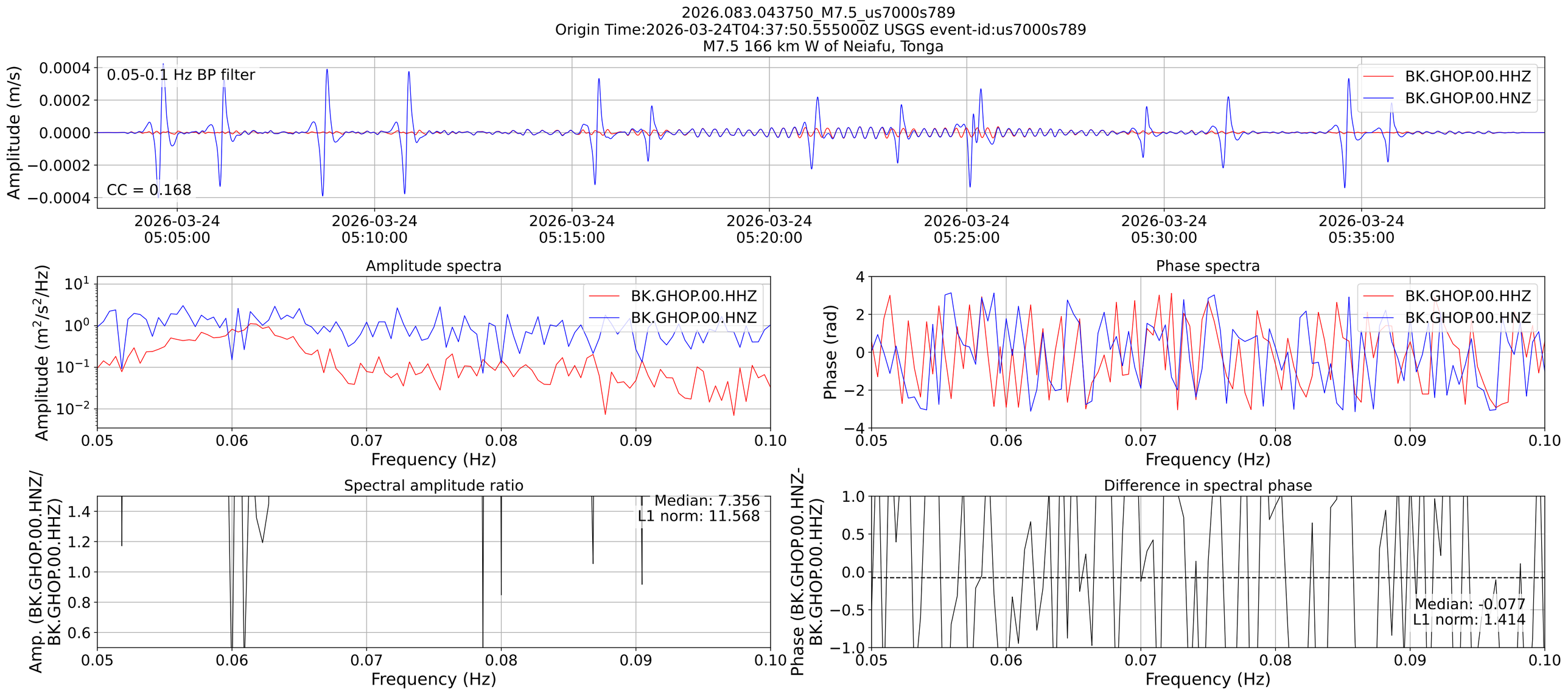

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.GCKB.00.HHE
BK.GCKB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNE/ BK.GCKB.00.HHE)
Median: 1.001
L1 norm: 0.093
Difference in spectral phase
Phase (BK.GCKB.00.HNE- BK.GCKB.00.HHE)
Median: -0.005
L1 norm: 0.101

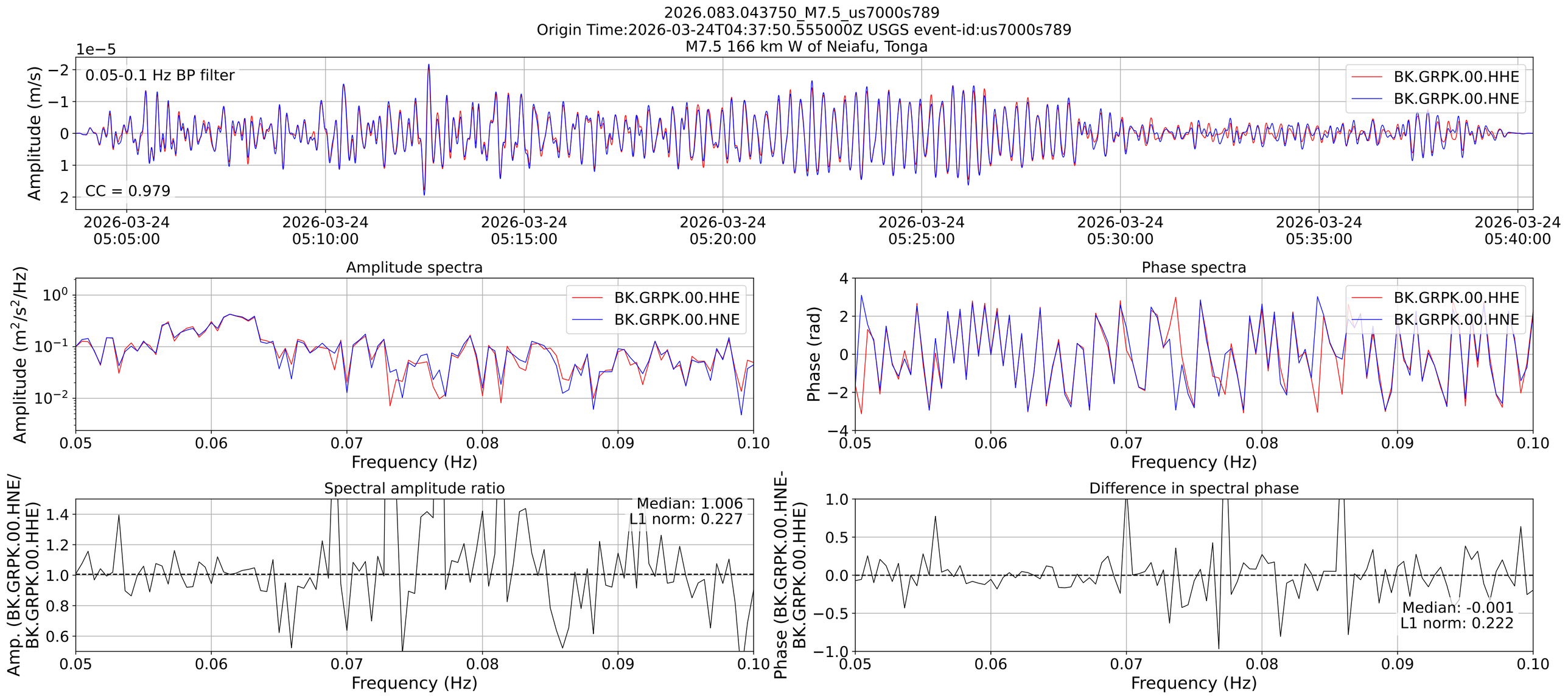

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.GCKB.00.HHN
BK.GCKB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNN/ BK.GCKB.00.HHN)
Median: 0.989
L1 norm: 0.100
Difference in spectral phase
Phase (BK.GCKB.00.HNN- BK.GCKB.00.HHN)
Median: -0.016
L1 norm: 0.102

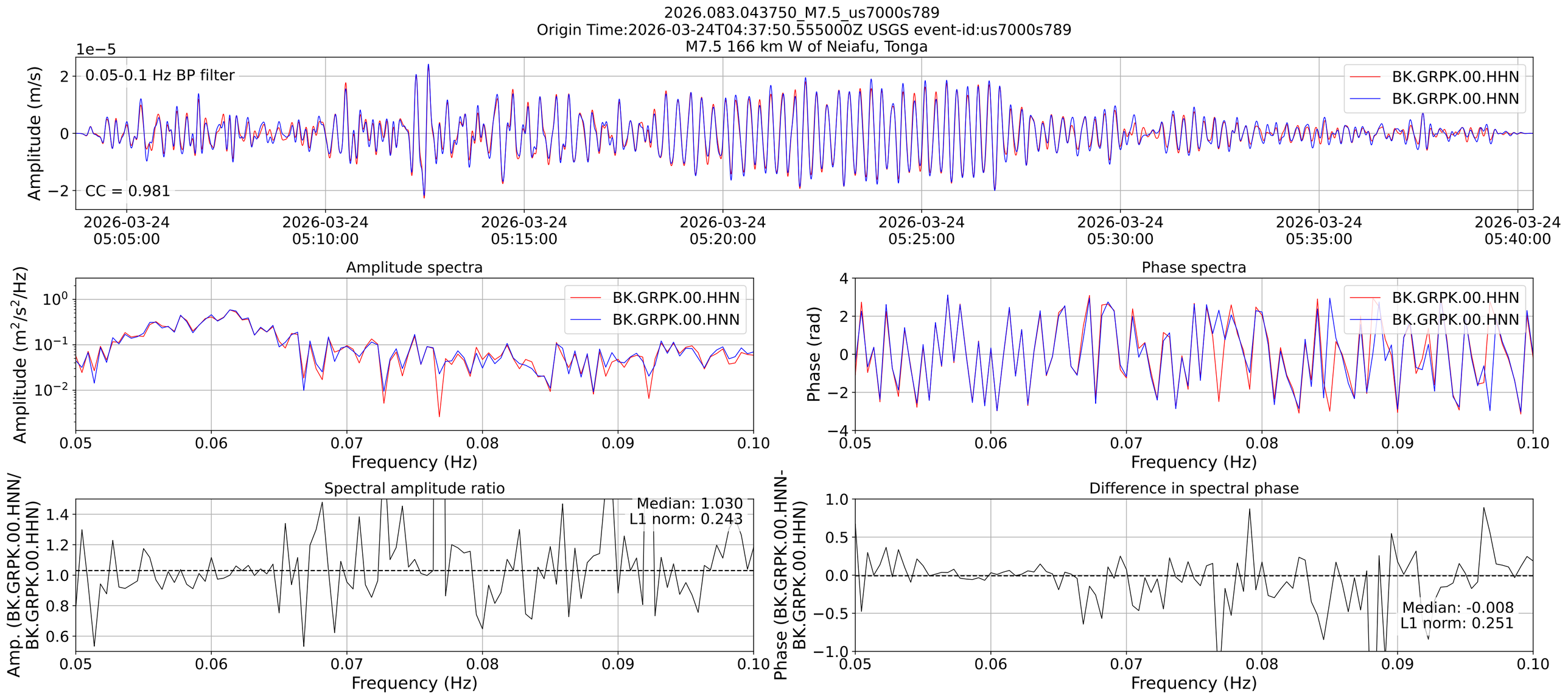

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.GCKB.00.HHZ
BK.GCKB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GCKB.00.HNZ/ BK.GCKB.00.HHZ)
Median: 0.980
L1 norm: 0.190
Difference in spectral phase
Phase (BK.GCKB.00.HNZ- BK.GCKB.00.HHZ)
Median: 0.025
L1 norm: 0.247

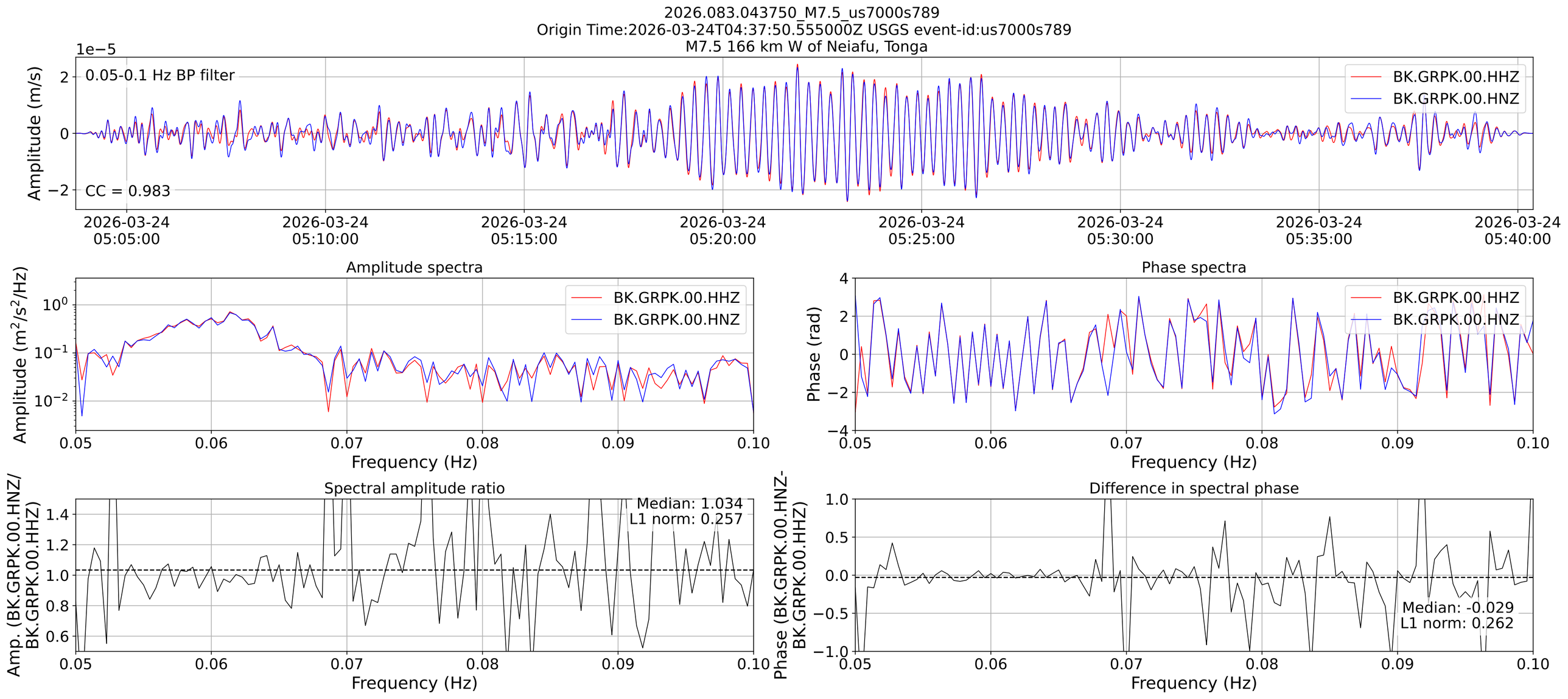

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.297
BK.GHOP.00.HHE
BK.GHOP.00.HNE
Amplitude (m/s)
−0.0002
−0.0001
0.0000
0.0001
0.0002
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNE/ BK.GHOP.00.HHE)
Median: 3.040
L1 norm: 3.316
Difference in spectral phase
Phase (BK.GHOP.00.HNE- BK.GHOP.00.HHE)
Median: -0.032
L1 norm: 1.209

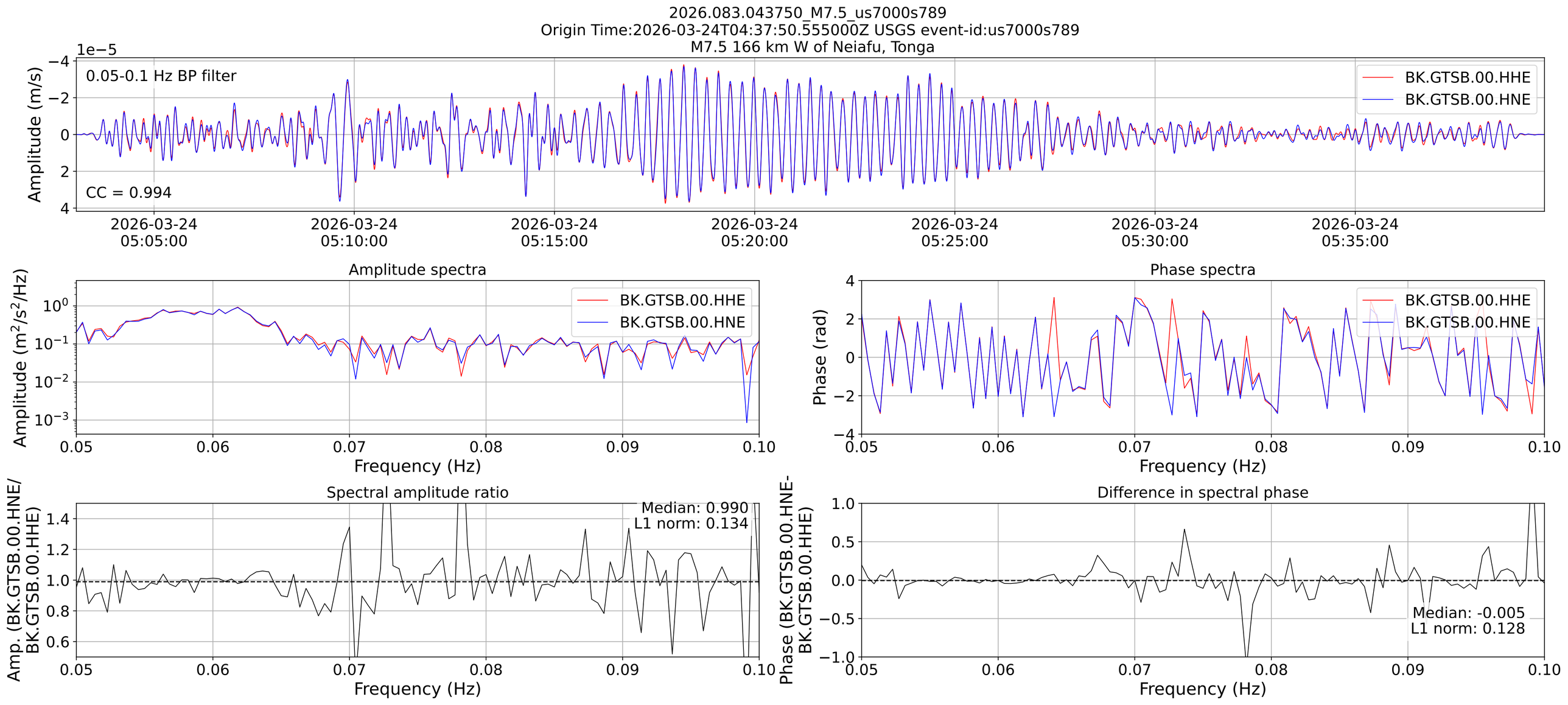

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.336
BK.GHOP.00.HHN
BK.GHOP.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNN/ BK.GHOP.00.HHN)
Median: 2.584
L1 norm: 2.198
Difference in spectral phase
Phase (BK.GHOP.00.HNN- BK.GHOP.00.HHN)
Median: 0.254
L1 norm: 1.134

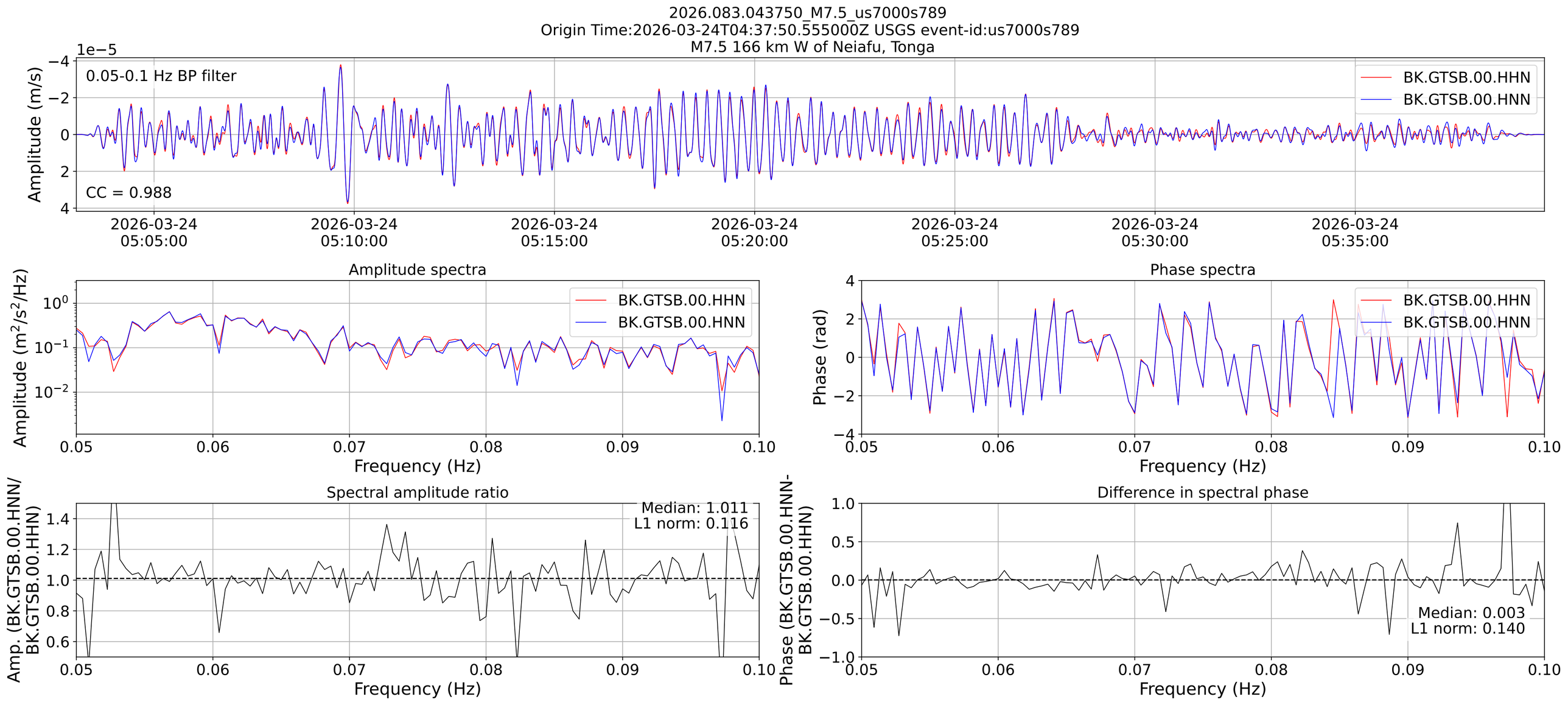

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.168
BK.GHOP.00.HHZ
BK.GHOP.00.HNZ
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GHOP.00.HNZ/ BK.GHOP.00.HHZ)
Median: 7.356
L1 norm: 11.568
Difference in spectral phase
Phase (BK.GHOP.00.HNZ-BK.GHOP.00.HHZ)
Median: -0.077
L1 norm: 1.414

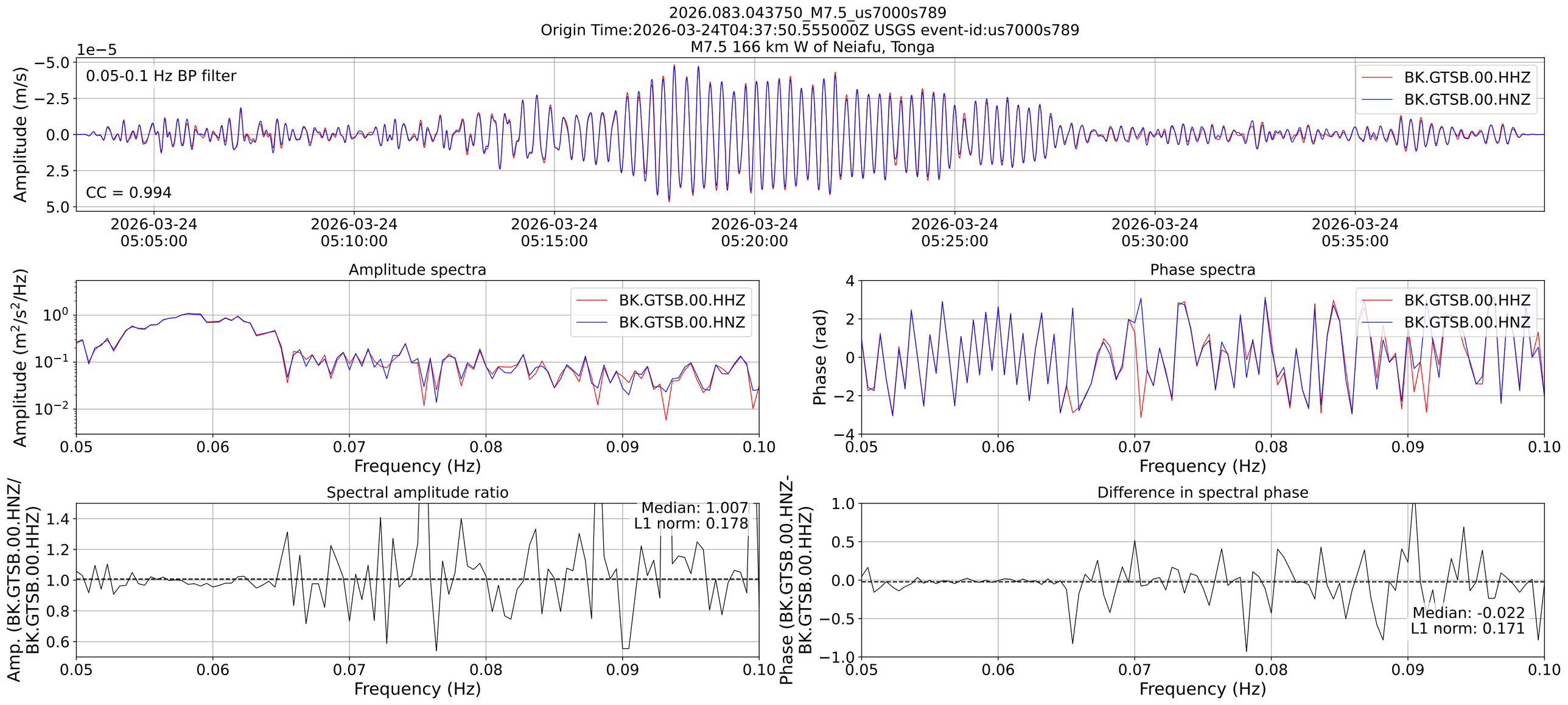

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.979
BK.GRPK.00.HHE
BK.GRPK.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNE/ BK.GRPK.00.HHE)
Median: 1.006
L1 norm: 0.227
Difference in spectral phase
Phase (BK.GRPK.00.HNE- BK.GRPK.00.HHE)
Median: -0.001
L1 norm: 0.222

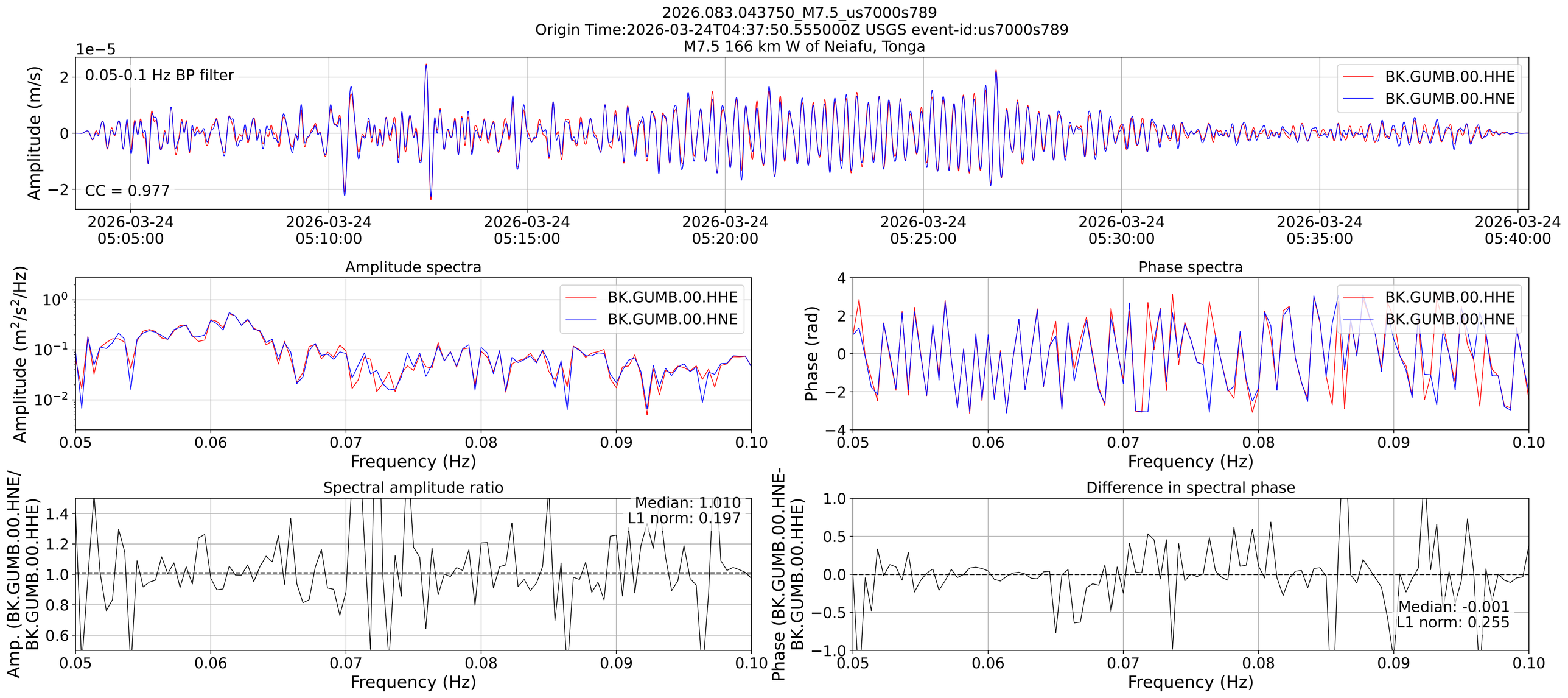

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.GRPK.00.HHN
BK.GRPK.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNN/ BK.GRPK.00.HHN)
Median: 1.030
L1 norm: 0.243
Difference in spectral phase
Phase (BK.GRPK.00.HNN- BK.GRPK.00.HHN)
Median: -0.008
L1 norm: 0.251

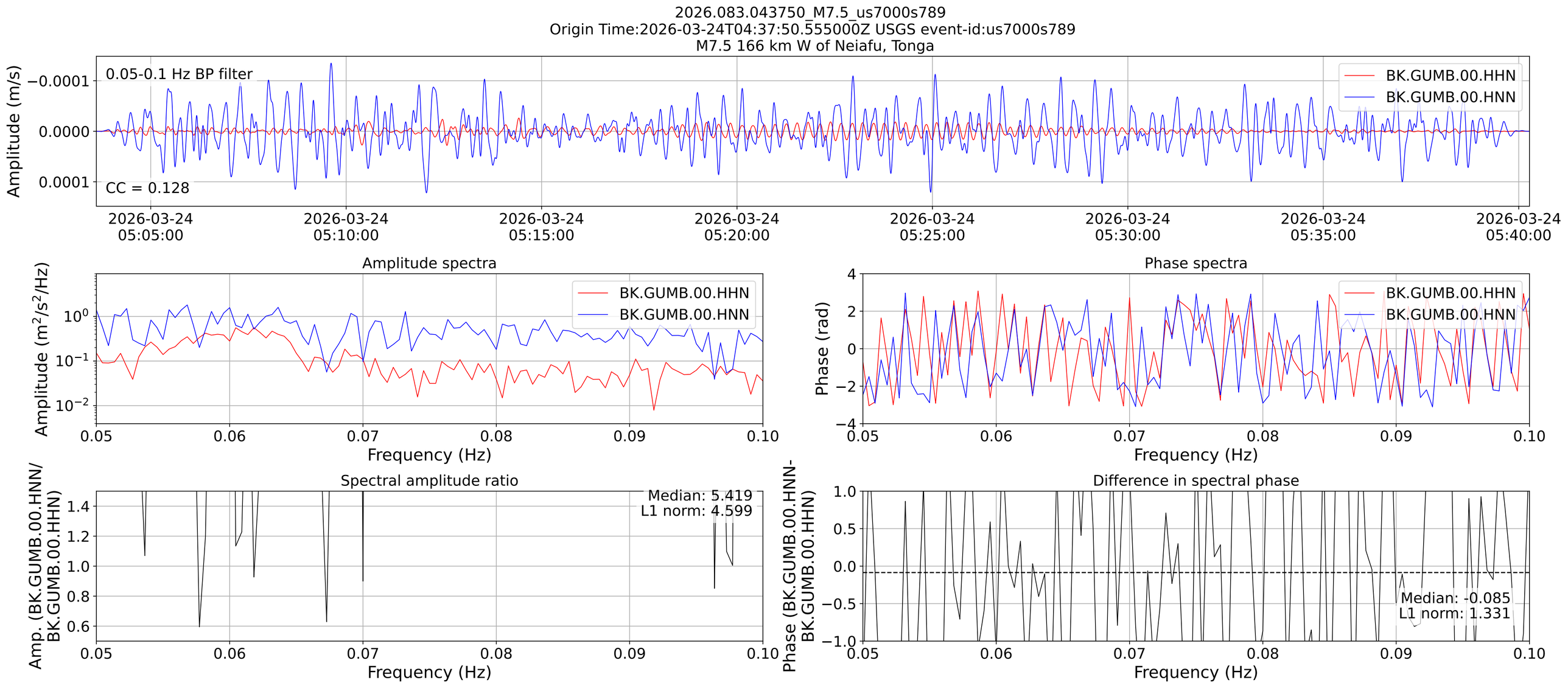

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.GRPK.00.HHZ
BK.GRPK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GRPK.00.HNZ/ BK.GRPK.00.HHZ)
Median: 1.034
L1 norm: 0.257
Difference in spectral phase
Phase (BK.GRPK.00.HNZ- BK.GRPK.00.HHZ)
Median: -0.029
L1 norm: 0.262

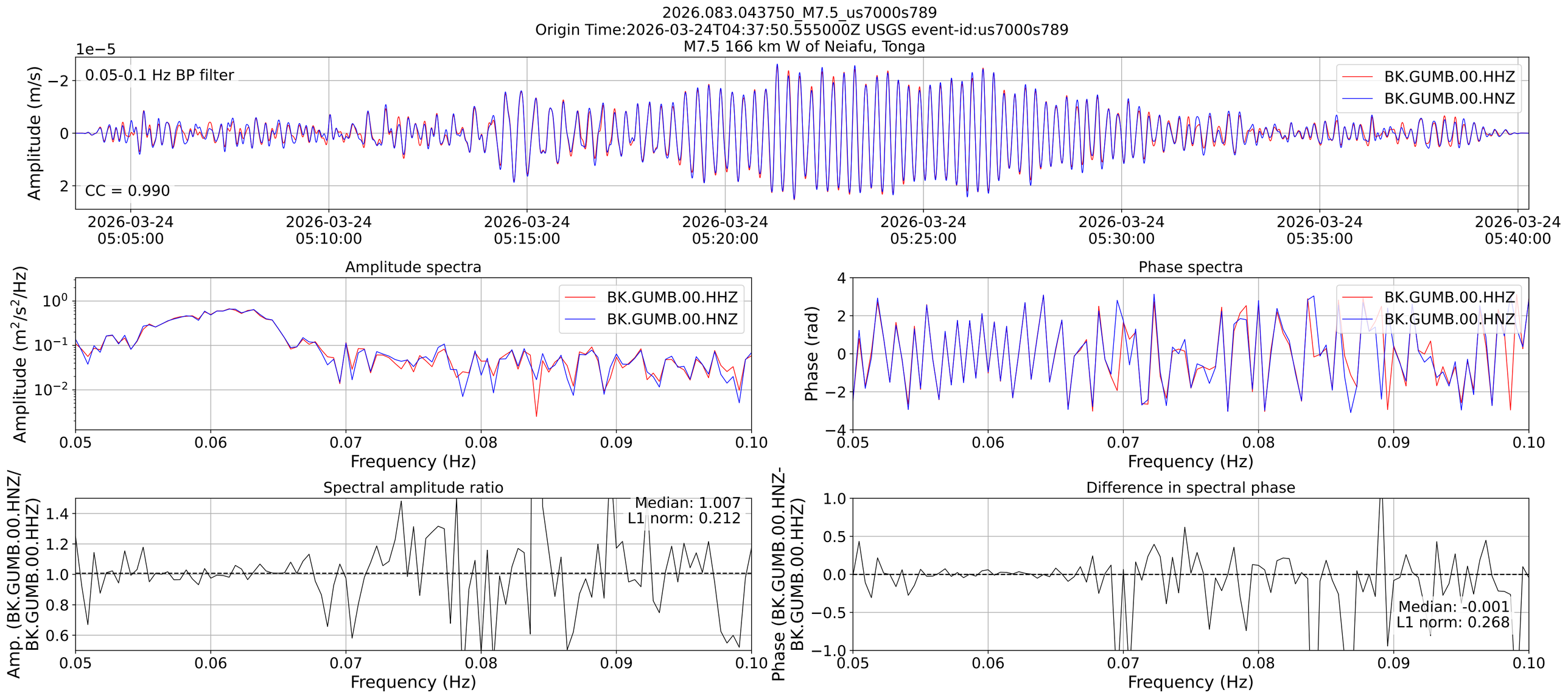

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.GTSB.00.HHE
BK.GTSB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNE/ BK.GTSB.00.HHE)
Median: 0.990
L1 norm: 0.134
Difference in spectral phase
Phase (BK.GTSB.00.HNE- BK.GTSB.00.HHE)
Median: -0.005
L1 norm: 0.128

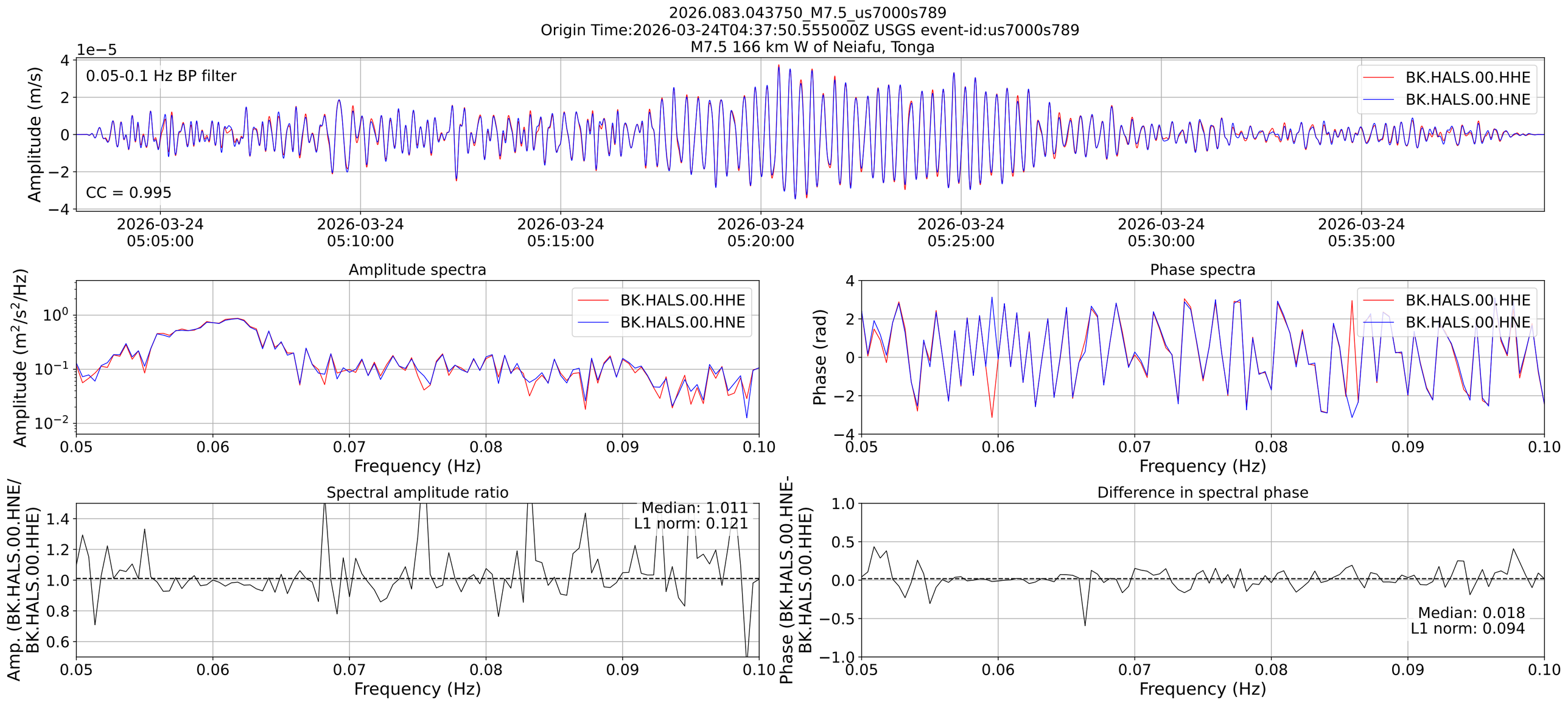

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.988
BK.GTSB.00.HHN
BK.GTSB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNN/ BK.GTSB.00.HHN)
Median: 1.011
L1 norm: 0.116
Difference in spectral phase
Phase (BK.GTSB.00.HNN- BK.GTSB.00.HHN)
Median: 0.003
L1 norm: 0.140

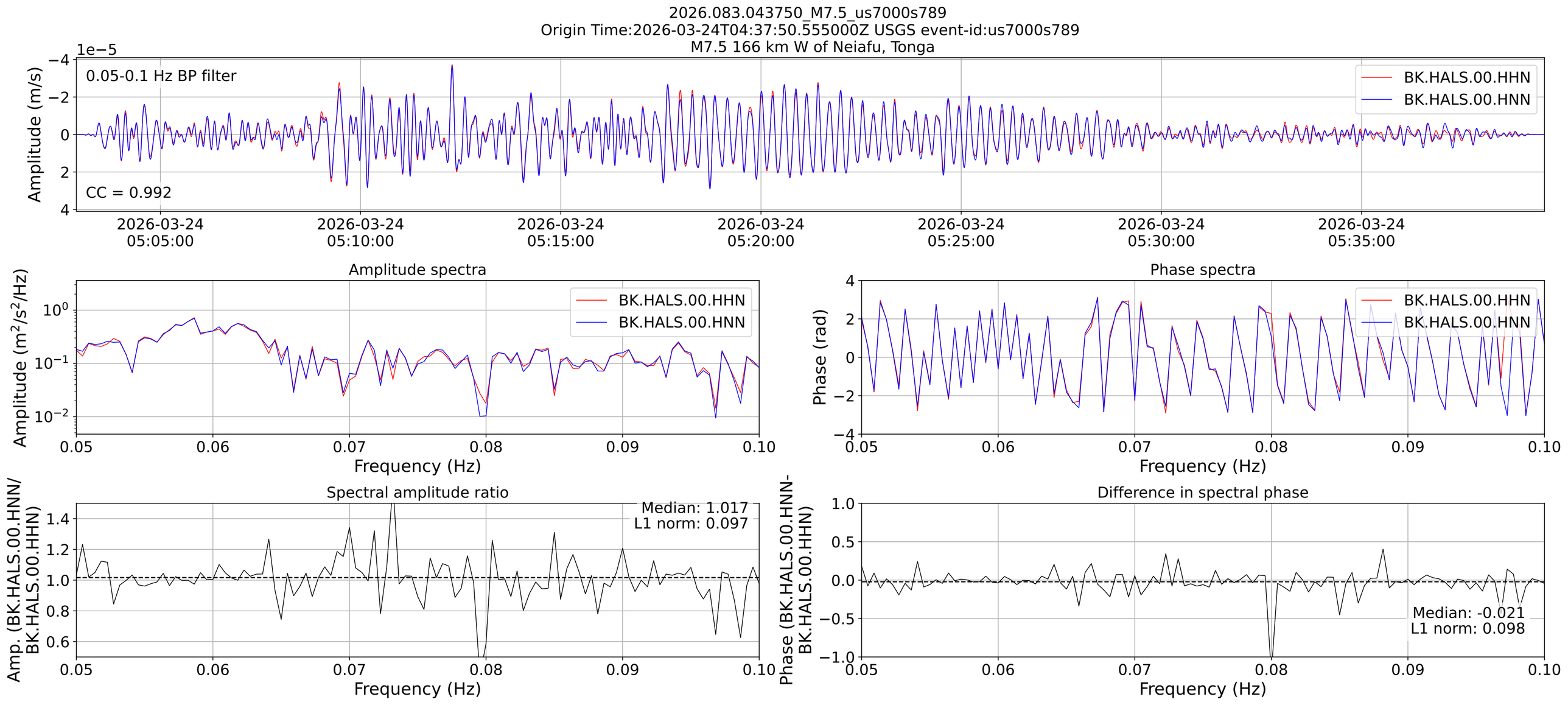

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.GTSB.00.HHZ
BK.GTSB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GTSB.00.HNZ/ BK.GTSB.00.HHZ)
Median: 1.007
L1 norm: 0.178
Difference in spectral phase
Phase (BK.GTSB.00.HNZ- BK.GTSB.00.HHZ)
Median: -0.022
L1 norm: 0.171

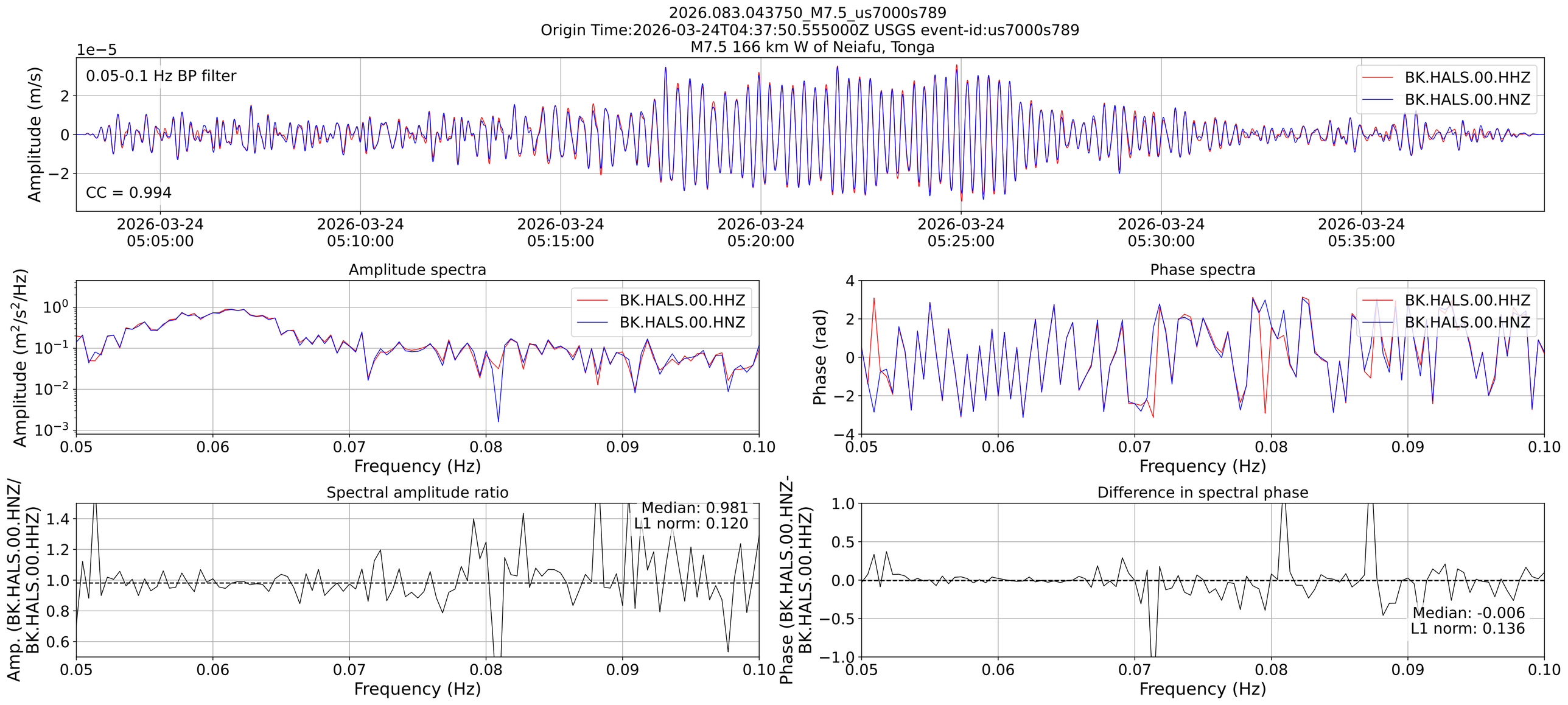

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.GUMB.00.HHE
BK.GUMB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNE/ BK.GUMB.00.HHE)
Median: 1.010
L1 norm: 0.197
Difference in spectral phase
Phase (BK.GUMB.00.HNE- BK.GUMB.00.HHE)
Median: -0.001
L1 norm: 0.255

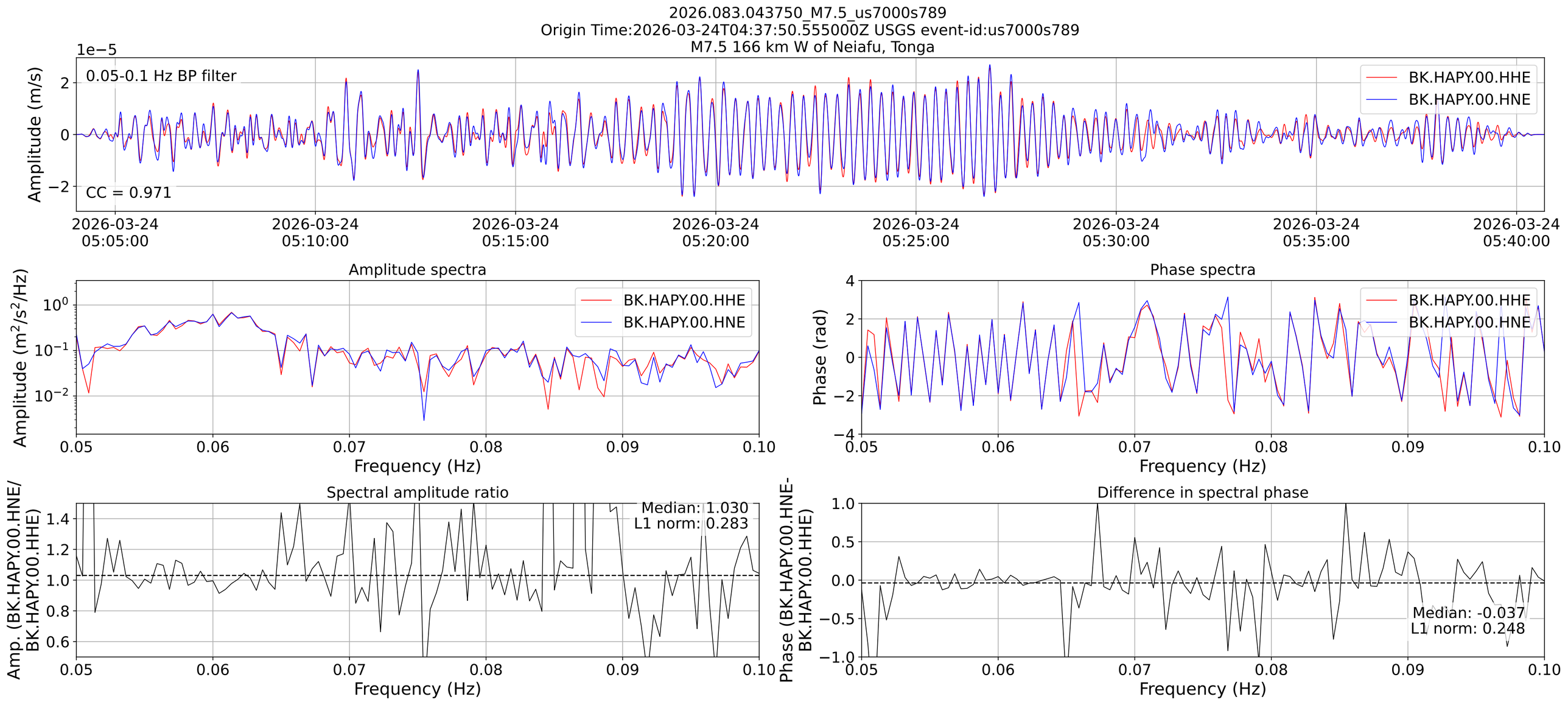

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.128
BK.GUMB.00.HHN
BK.GUMB.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNN/ BK.GUMB.00.HHN)
Median: 5.419
L1 norm: 4.599
Difference in spectral phase
Phase (BK.GUMB.00.HNN-BK.GUMB.00.HHN)
Median: -0.085
L1 norm: 1.331

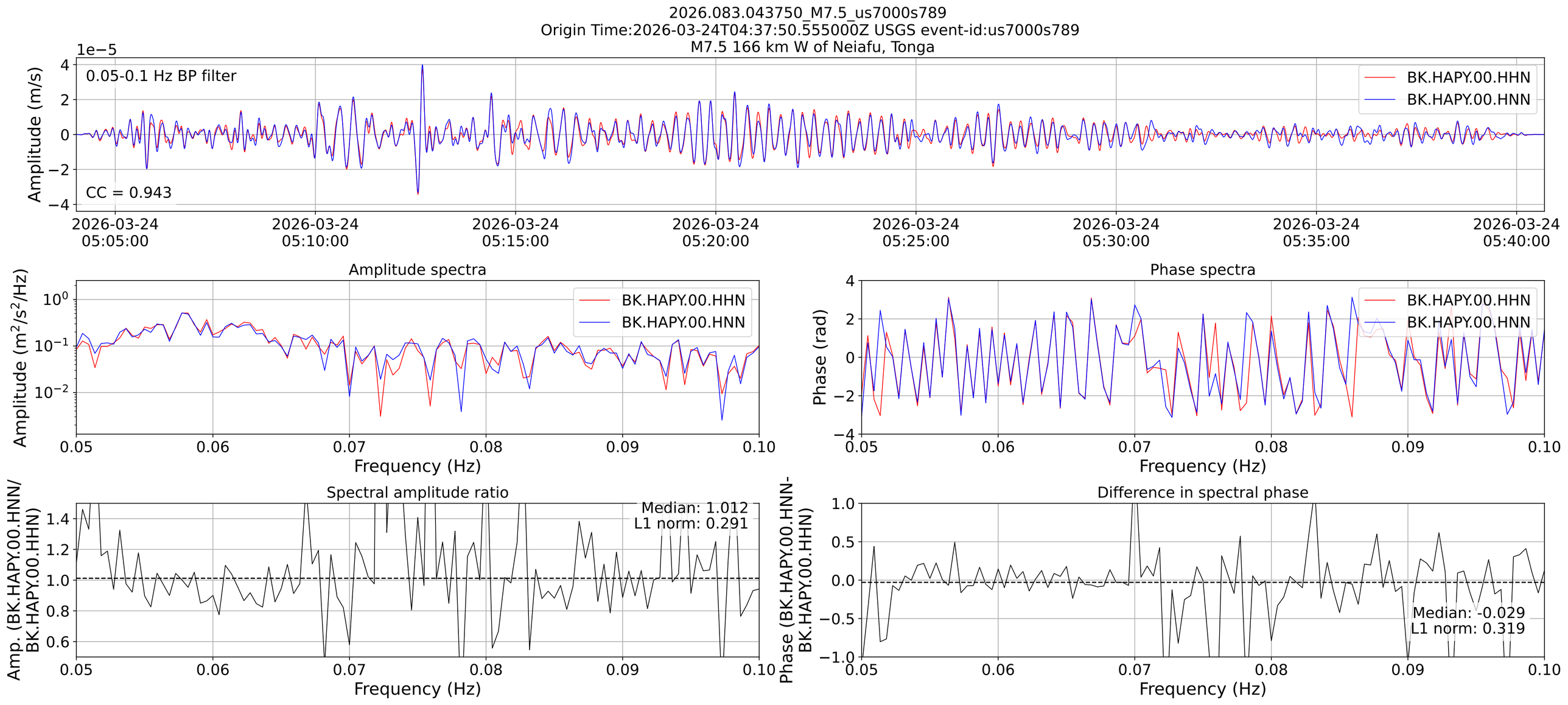

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.GUMB.00.HHZ
BK.GUMB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.GUMB.00.HNZ/ BK.GUMB.00.HHZ)
Median: 1.007
L1 norm: 0.212
Difference in spectral phase
Phase (BK.GUMB.00.HNZ- BK.GUMB.00.HHZ)
Median: -0.001
L1 norm: 0.268

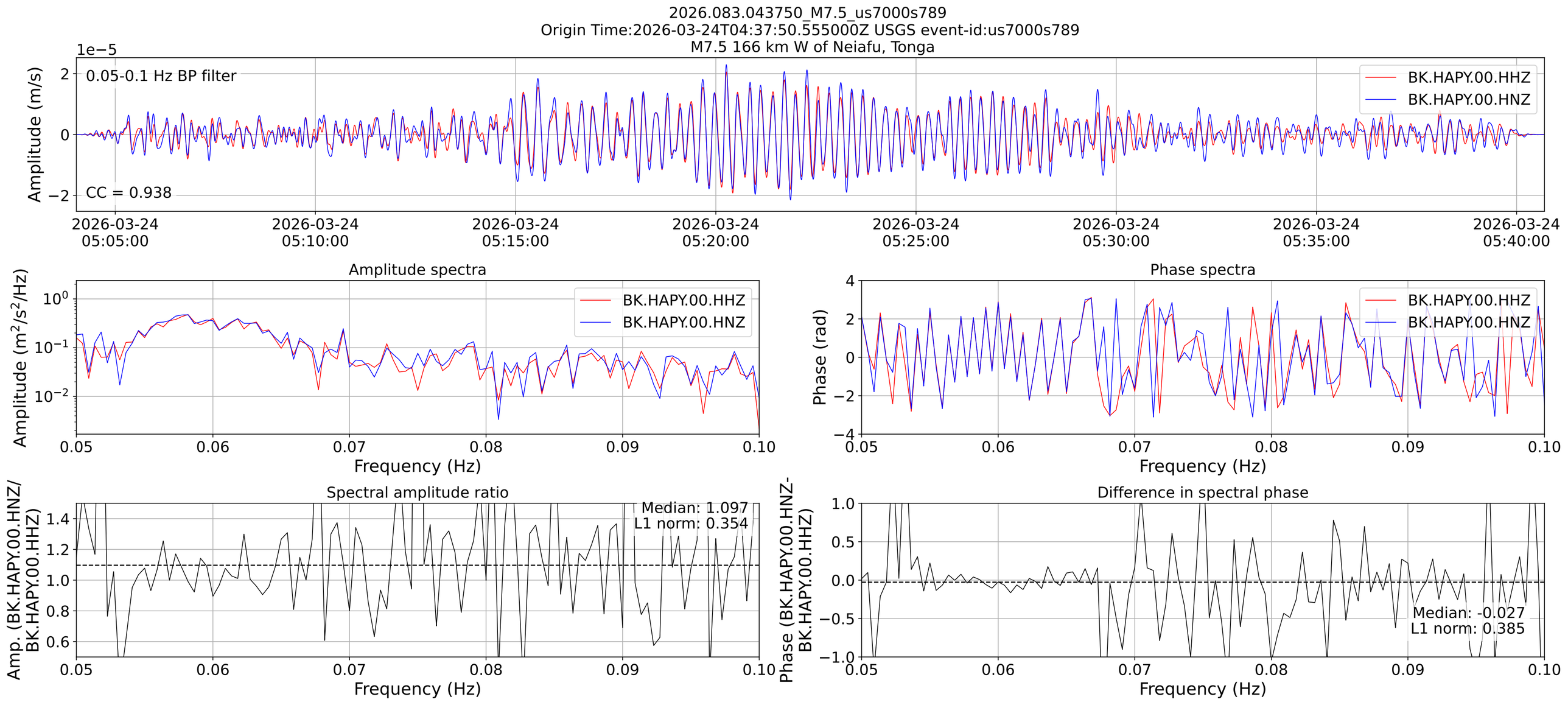

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.HALS.00.HHE
BK.HALS.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNE/ BK.HALS.00.HHE)
Median: 1.011
L1 norm: 0.121
Difference in spectral phase
Phase (BK.HALS.00.HNE- BK.HALS.00.HHE)
Median: 0.018
L1 norm: 0.094

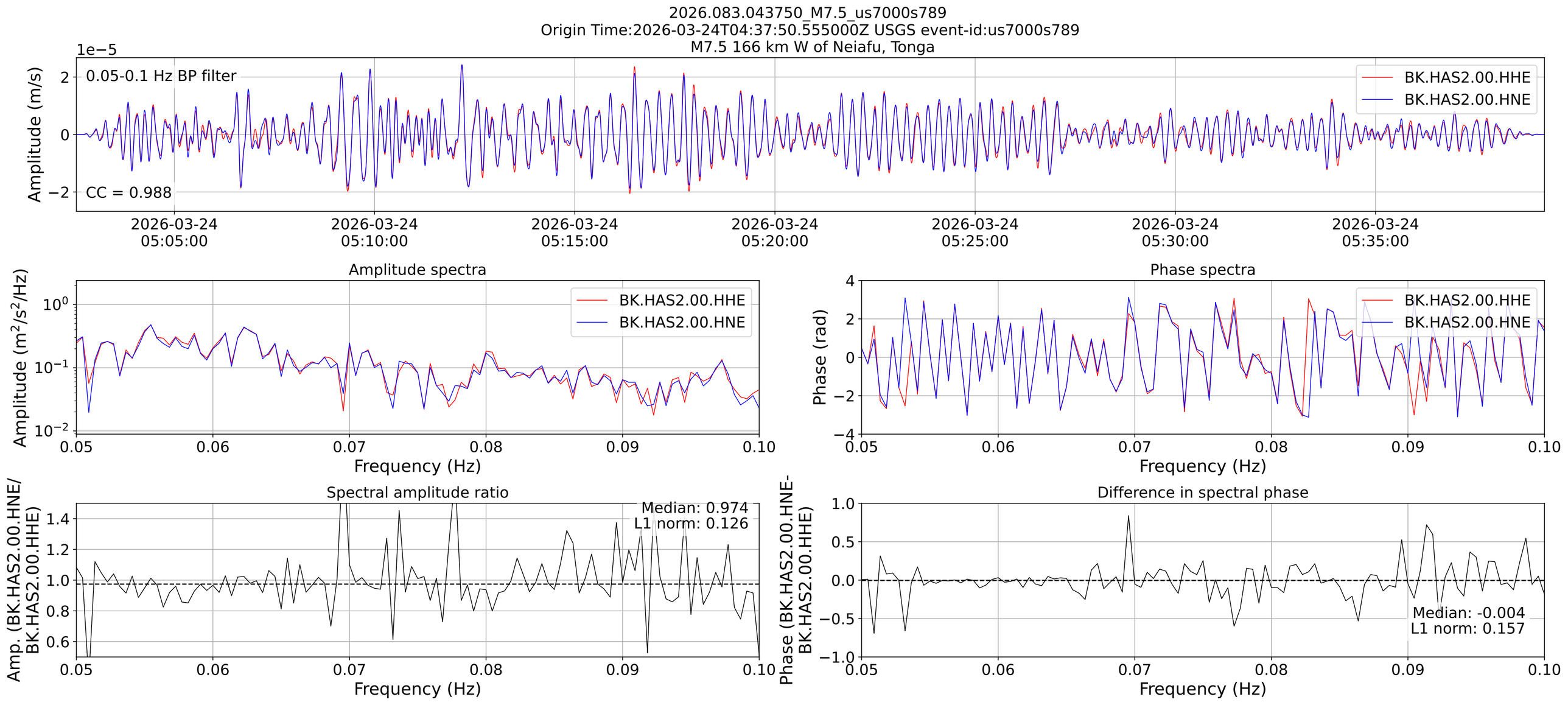

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.HALS.00.HHN
BK.HALS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNN/ BK.HALS.00.HHN)
Median: 1.017
L1 norm: 0.097
Difference in spectral phase
Phase (BK.HALS.00.HNN- BK.HALS.00.HHN)
Median: -0.021
L1 norm: 0.098

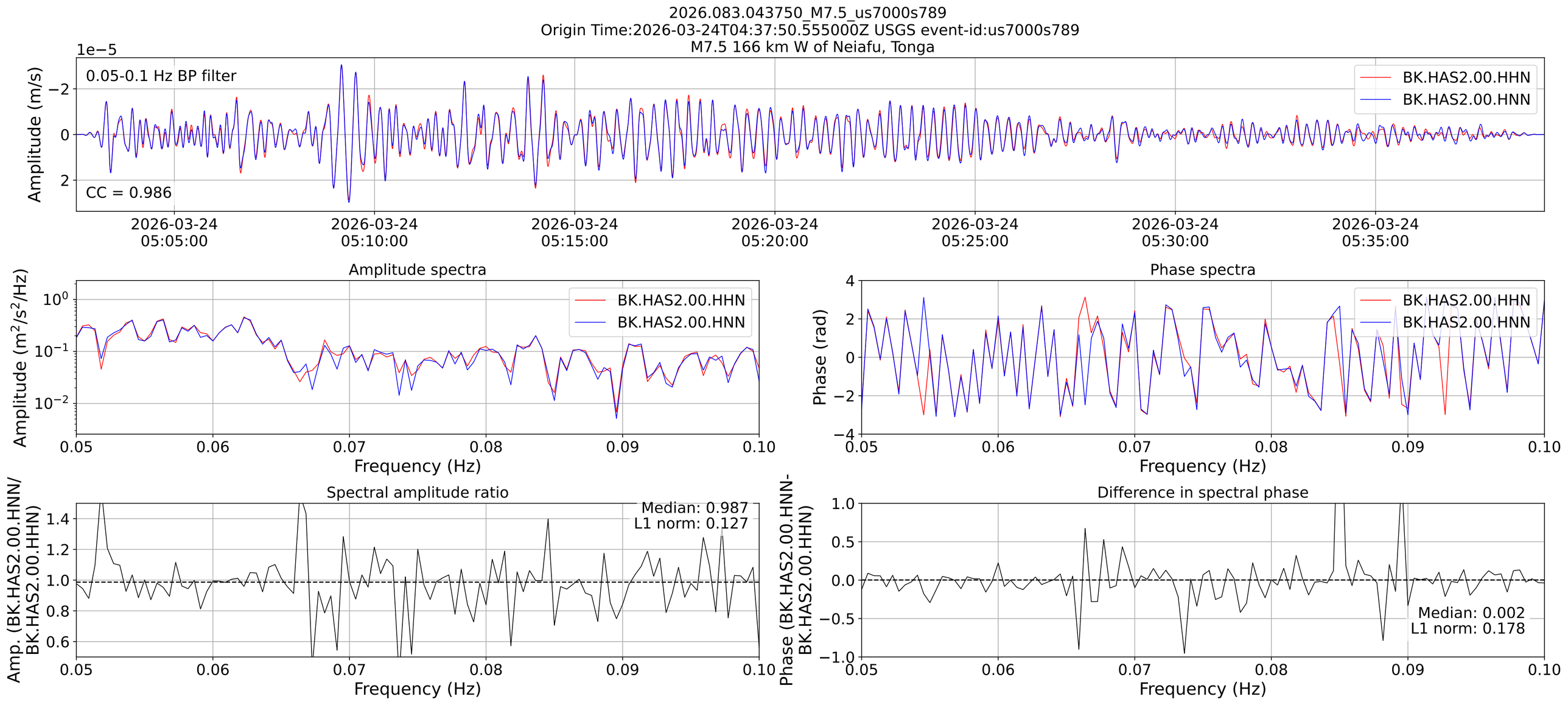

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.HALS.00.HHZ
BK.HALS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HALS.00.HNZ/ BK.HALS.00.HHZ)
Median: 0.981
L1 norm: 0.120
Difference in spectral phase
Phase (BK.HALS.00.HNZ-BK.HALS.00.HHZ)
Median: -0.006
L1 norm: 0.136

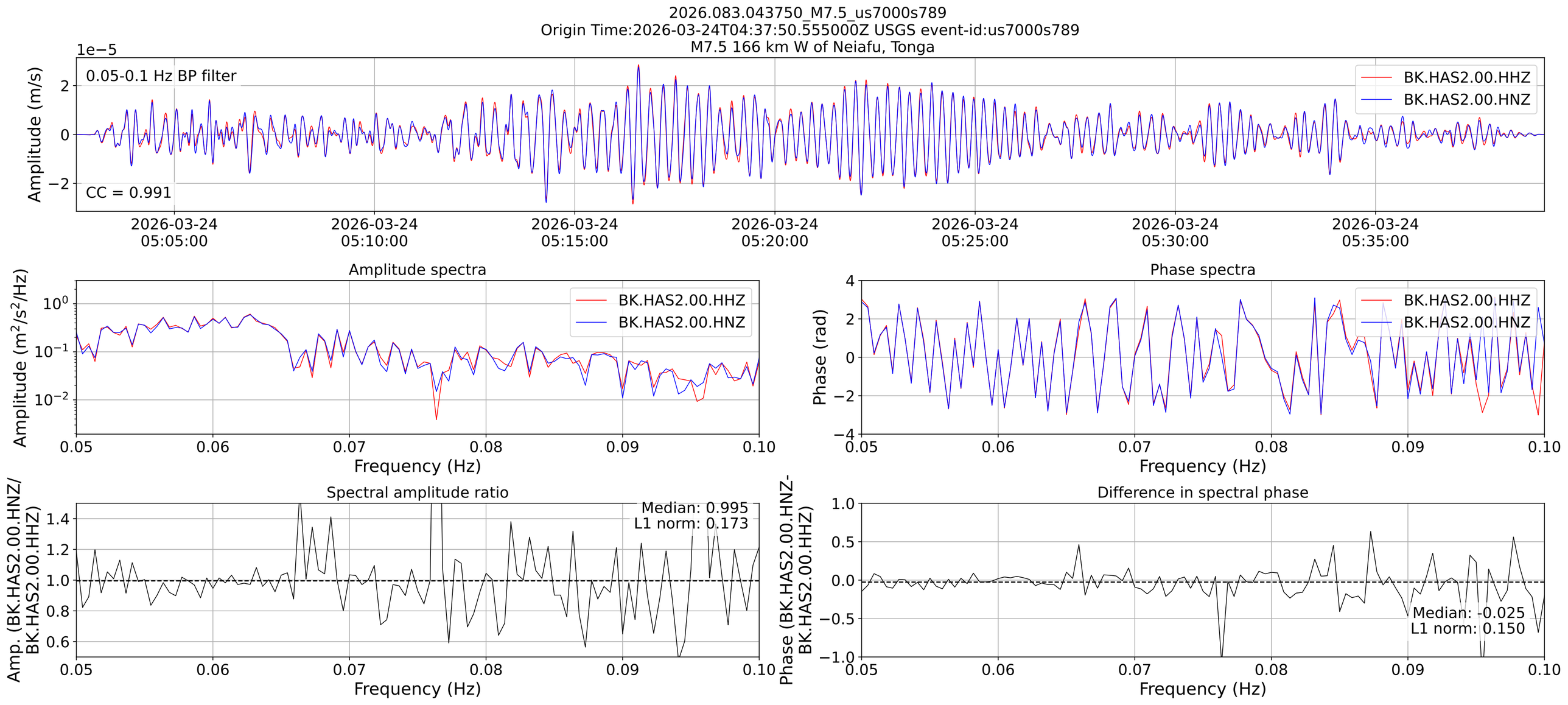

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.971
Amplitude (m/s)
BK.HAPY.00.HHE
BK.HAPY.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNE/ BK.HAPY.00.HHE)
Median: 1.030
L1 norm: 0.283
Difference in spectral phase
Phase (BK.HAPY.00.HNE- BK.HAPY.00.HHE)
Median: -0.037
L1 norm: 0.248

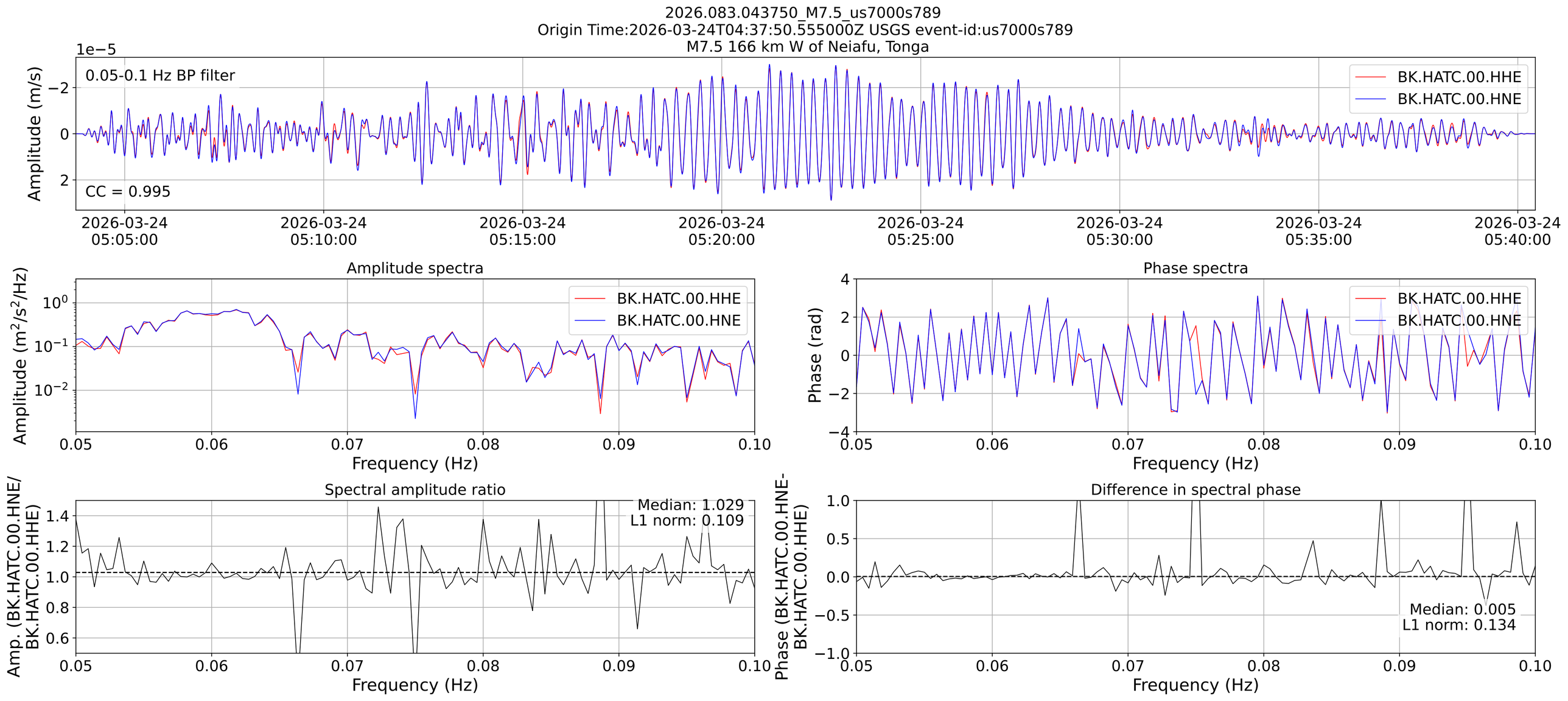

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.943
Amplitude (m/s)
BK.HAPY.00.HHN
BK.HAPY.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNN/ BK.HAPY.00.HHN)
Median: 1.012
L1 norm: 0.291
Difference in spectral phase
Phase (BK.HAPY.00.HNN- BK.HAPY.00.HHN)
Median: -0.029
L1 norm: 0.319

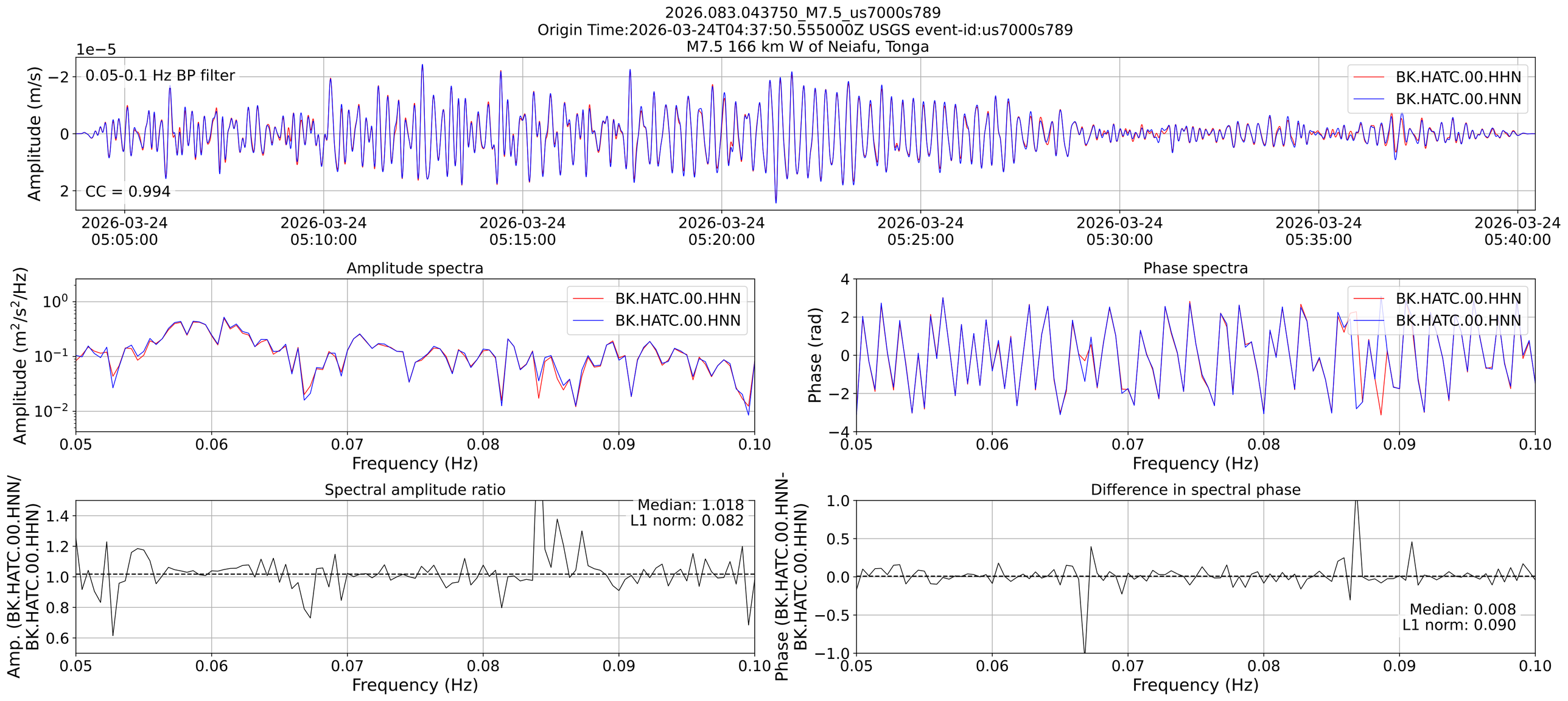

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.938
Amplitude (m/s)
BK.HAPY.00.HHZ
BK.HAPY.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAPY.00.HNZ/ BK.HAPY.00.HHZ)
Median: 1.097
L1 norm: 0.354
Difference in spectral phase
Phase (BK.HAPY.00.HNZ- BK.HAPY.00.HHZ)
Median: -0.027
L1 norm: 0.385

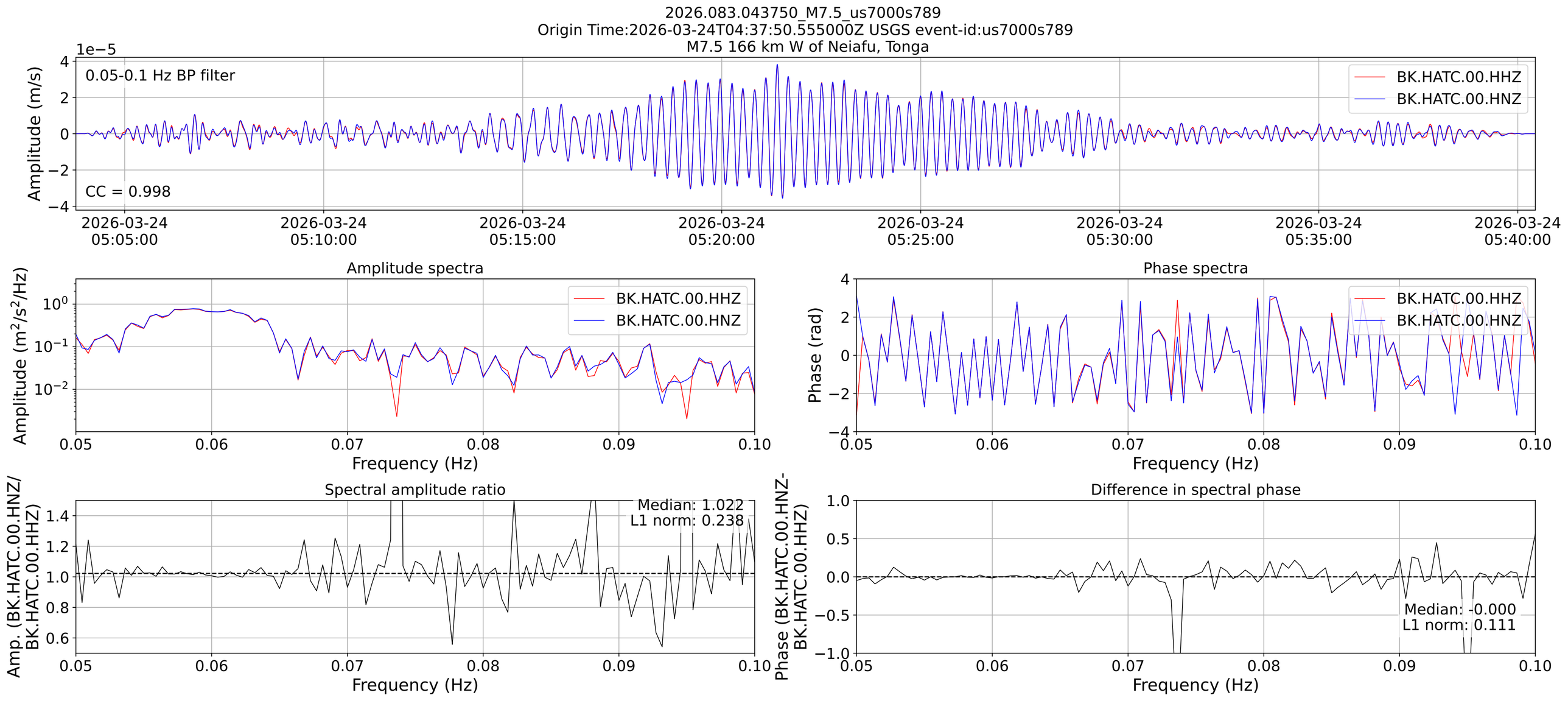

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.HAS2.00.HHE
BK.HAS2.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNE/ BK.HAS2.00.HHE)
Median: 0.974
L1 norm: 0.126
Difference in spectral phase
Phase (BK.HAS2.00.HNE- BK.HAS2.00.HHE)
Median: -0.004
L1 norm: 0.157

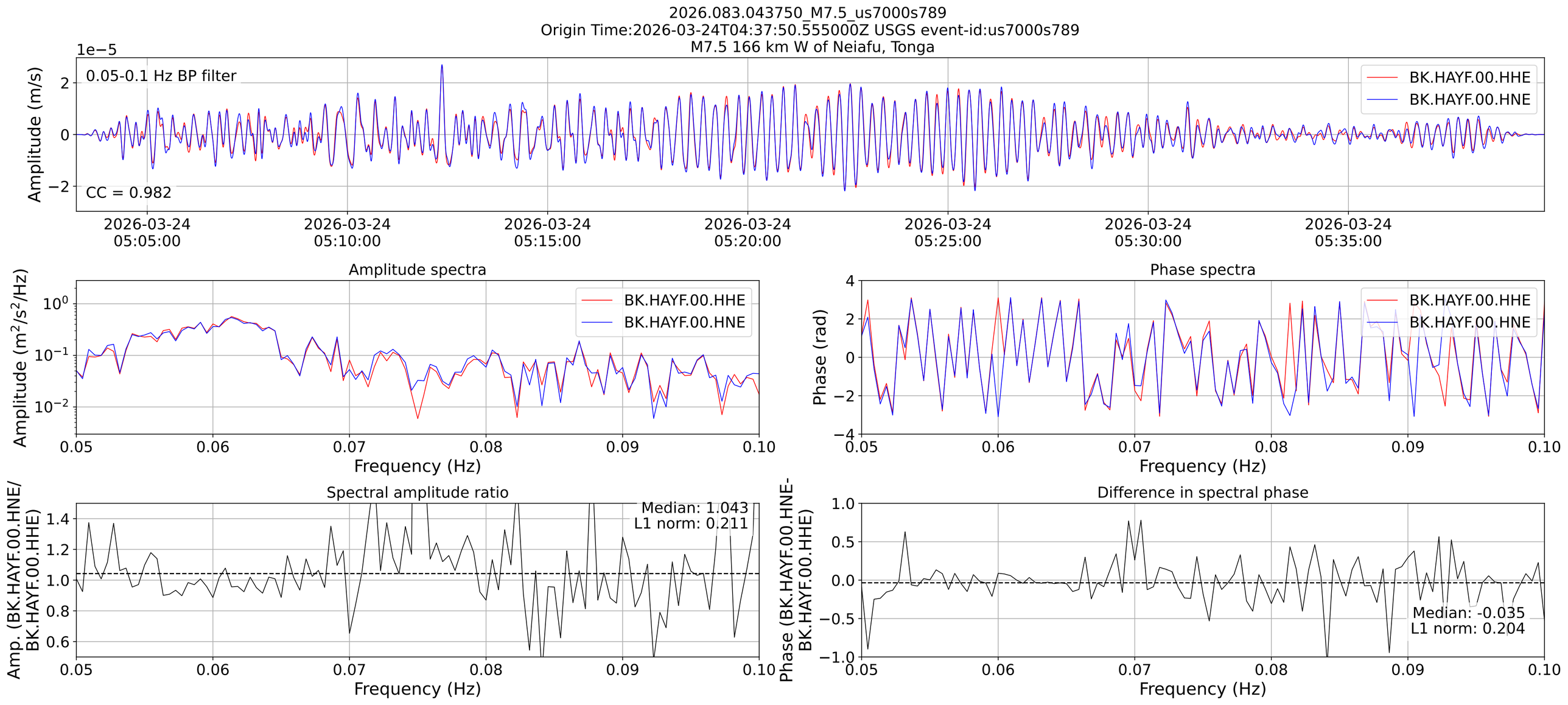

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.HAS2.00.HHN
BK.HAS2.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNN/ BK.HAS2.00.HHN)
Median: 0.987
L1 norm: 0.127
Difference in spectral phase
Phase (BK.HAS2.00.HNN- BK.HAS2.00.HHN)
Median: 0.002
L1 norm: 0.178

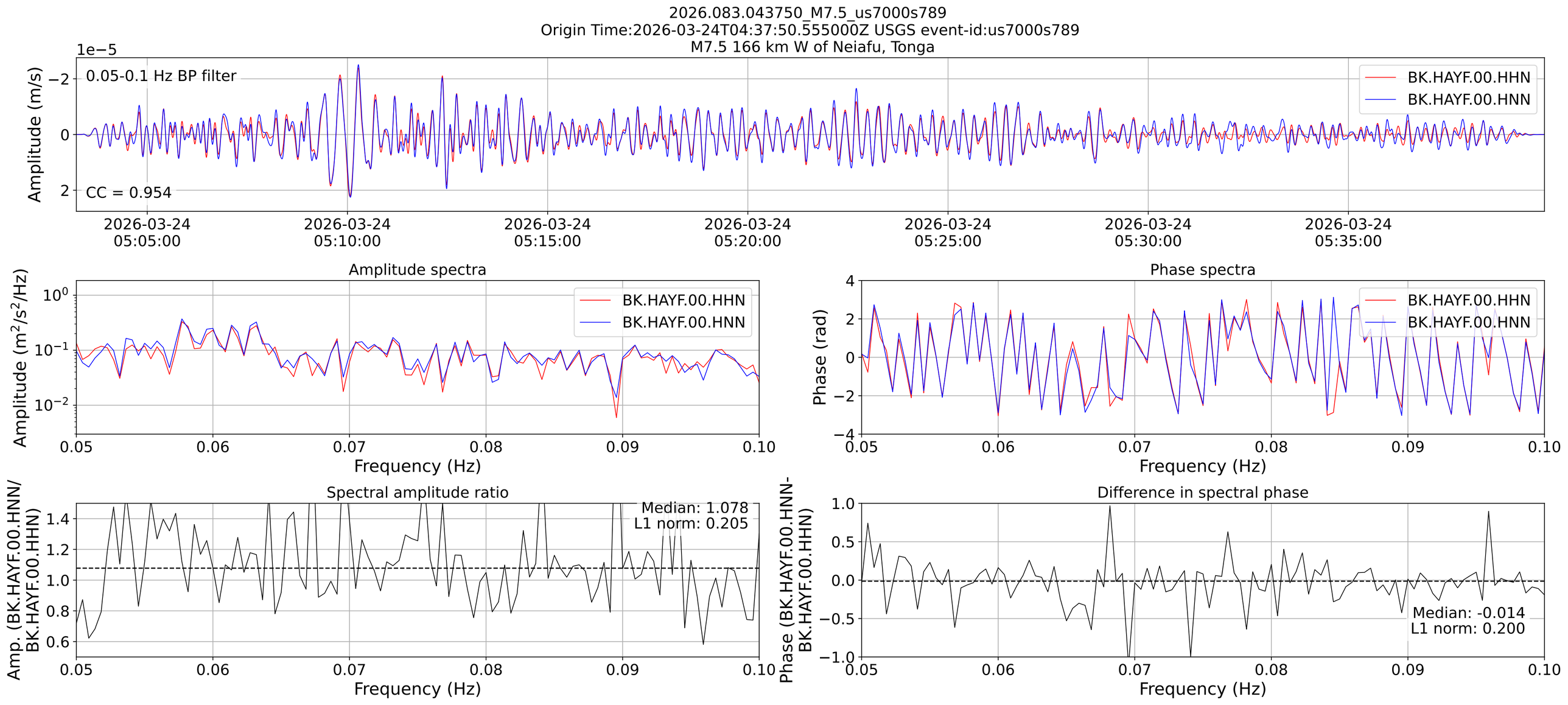

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.HAS2.00.HHZ
BK.HAS2.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAS2.00.HNZ/ BK.HAS2.00.HHZ)
Median: 0.995
L1 norm: 0.173
Difference in spectral phase
Phase (BK.HAS2.00.HNZ- BK.HAS2.00.HHZ)
Median: -0.025
L1 norm: 0.150

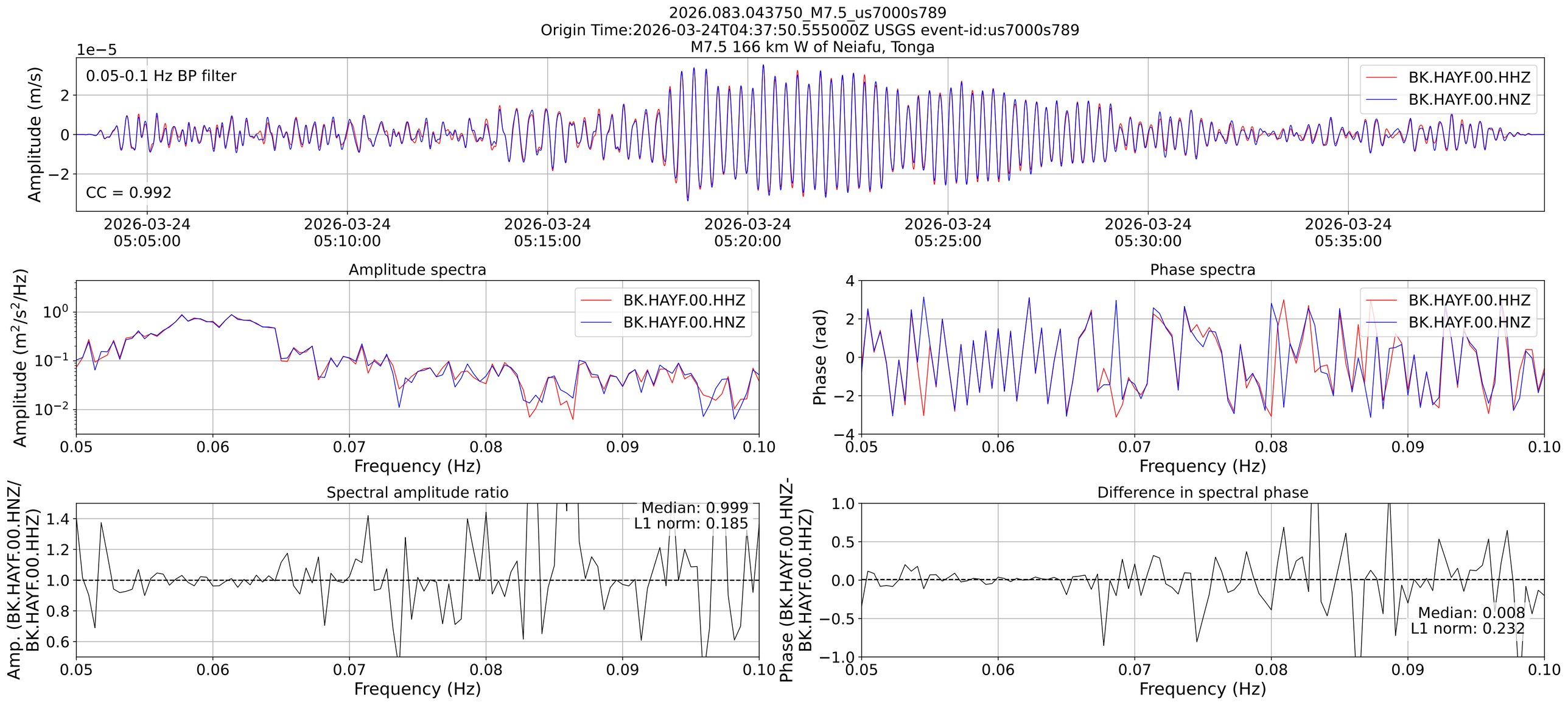

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.HATC.00.HHE
BK.HATC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNE/ BK.HATC.00.HHE)
Median: 1.029
L1 norm: 0.109
Difference in spectral phase
Phase (BK.HATC.00.HNE- BK.HATC.00.HHE)
Median: 0.005
L1 norm: 0.134

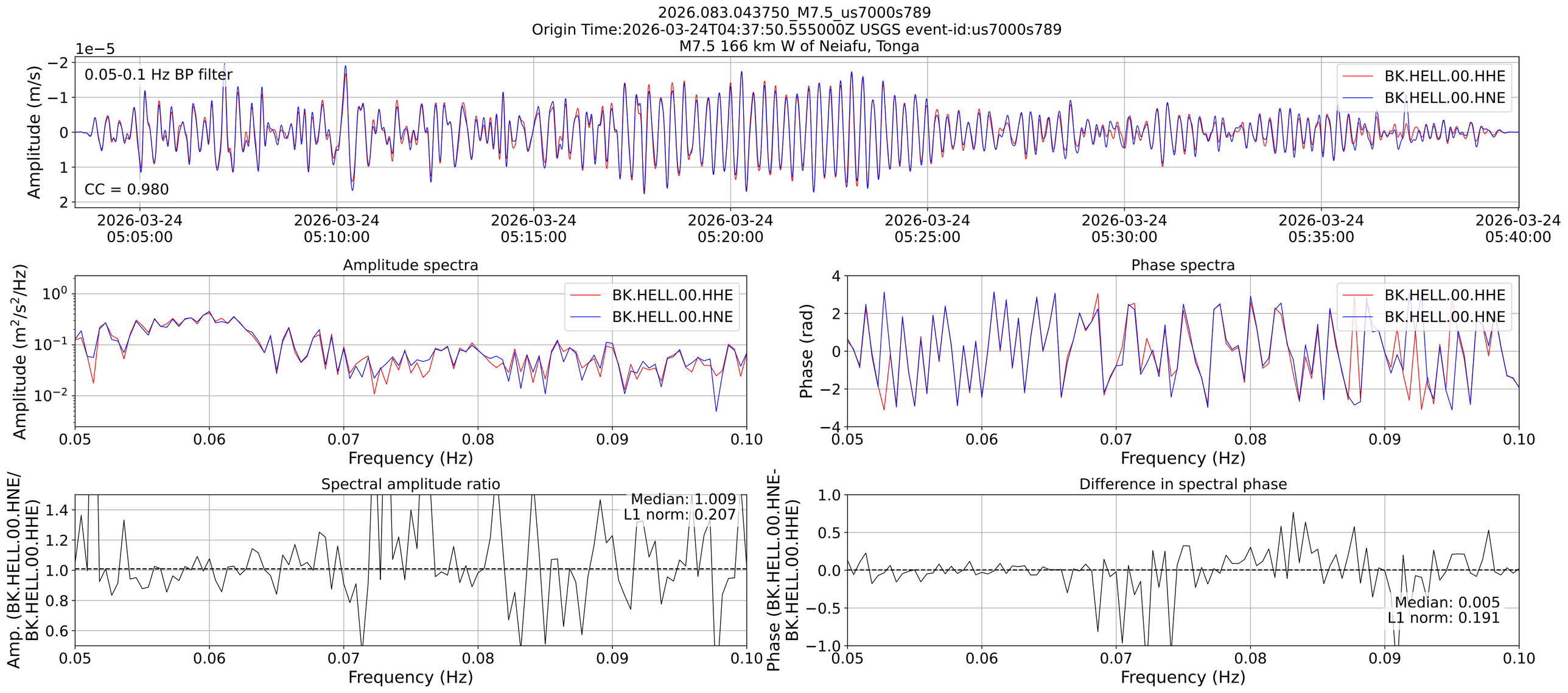

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.HATC.00.HHN
BK.HATC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNN/ BK.HATC.00.HHN)
Median: 1.018
L1 norm: 0.082
Difference in spectral phase
Phase (BK.HATC.00.HNN- BK.HATC.00.HHN)
Median: 0.008
L1 norm: 0.090

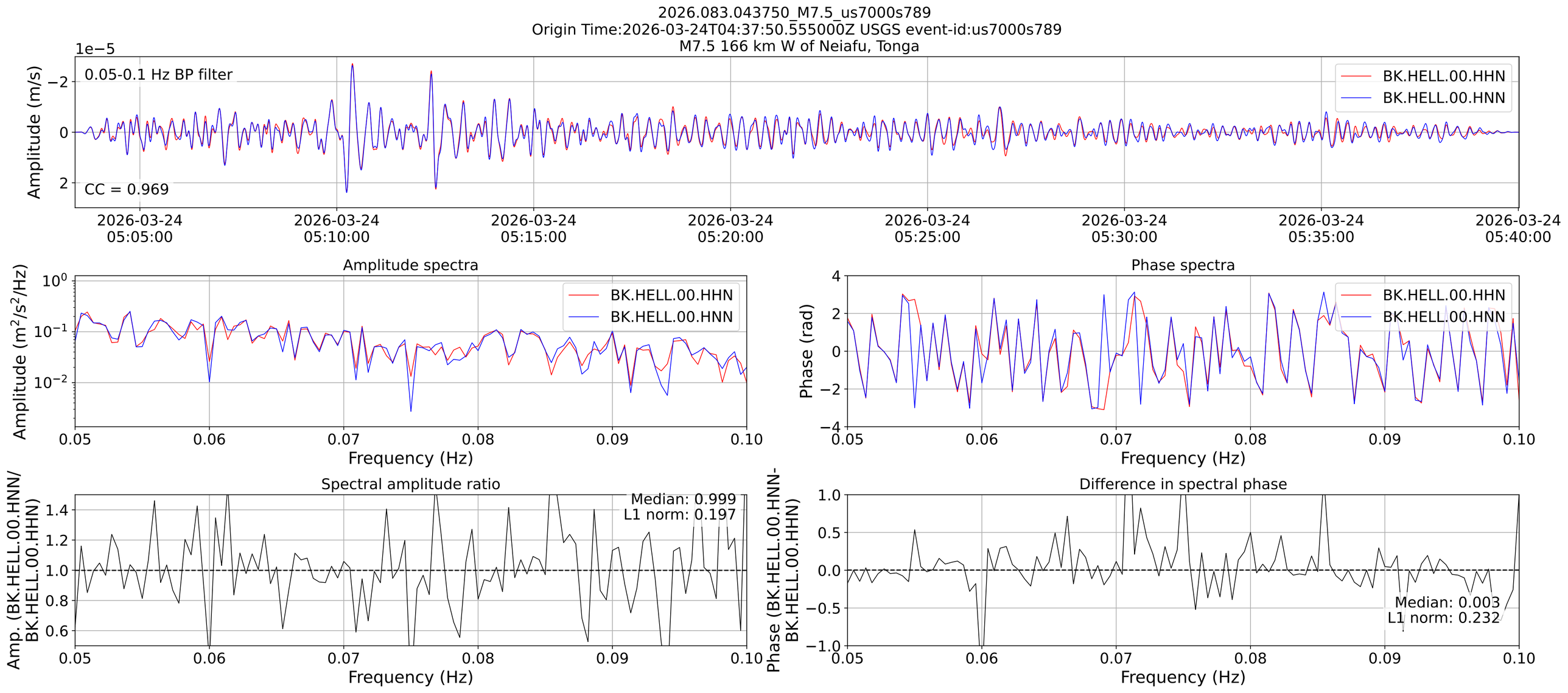

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.998
Amplitude (m/s)
BK.HATC.00.HHZ
BK.HATC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HATC.00.HNZ/ BK.HATC.00.HHZ)
Median: 1.022
L1 norm: 0.238
Difference in spectral phase
Phase (BK.HATC.00.HNZ- BK.HATC.00.HHZ)
Median: -0.000
L1 norm: 0.111

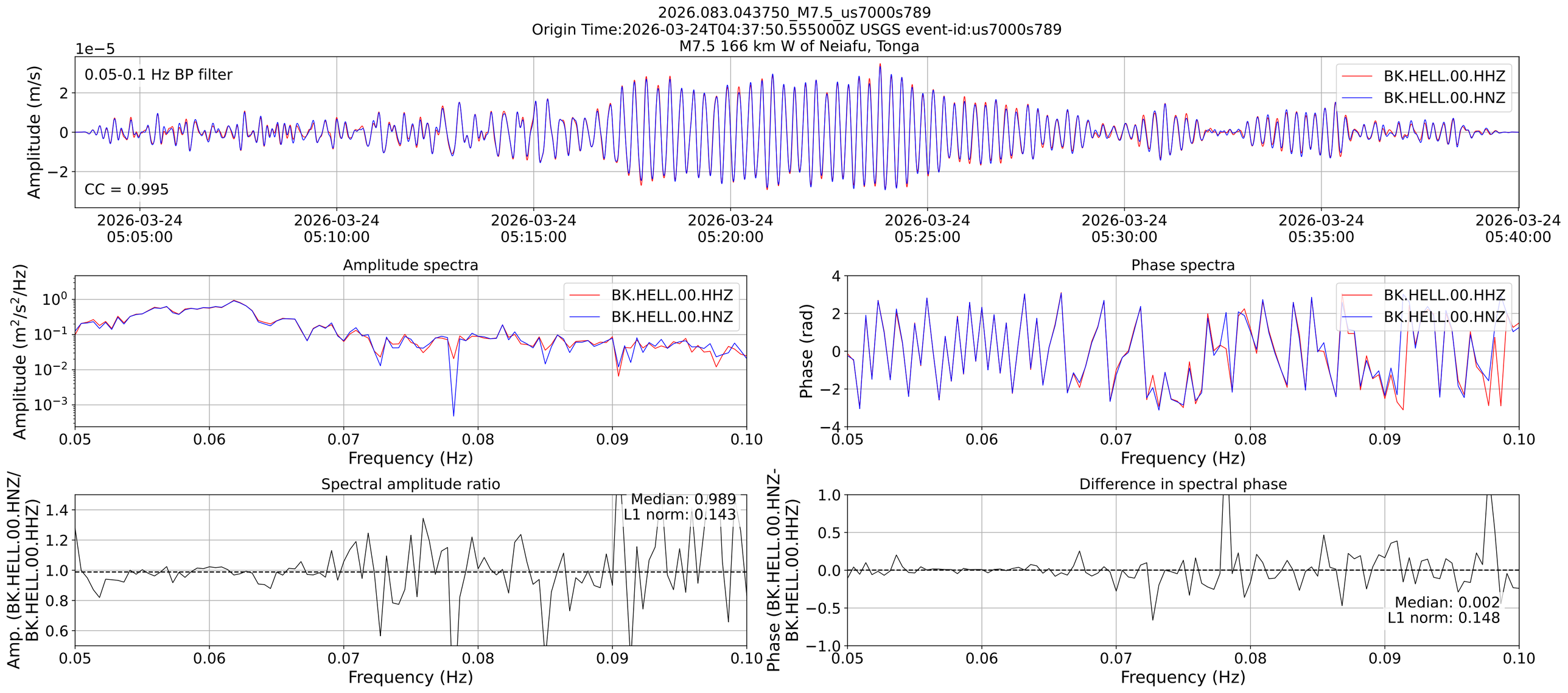

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.HAYF.00.HHE
BK.HAYF.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNE/ BK.HAYF.00.HHE)
Median: 1.043
L1 norm: 0.211
Difference in spectral phase
Phase (BK.HAYF.00.HNE- BK.HAYF.00.HHE)
Median: -0.035
L1 norm: 0.204

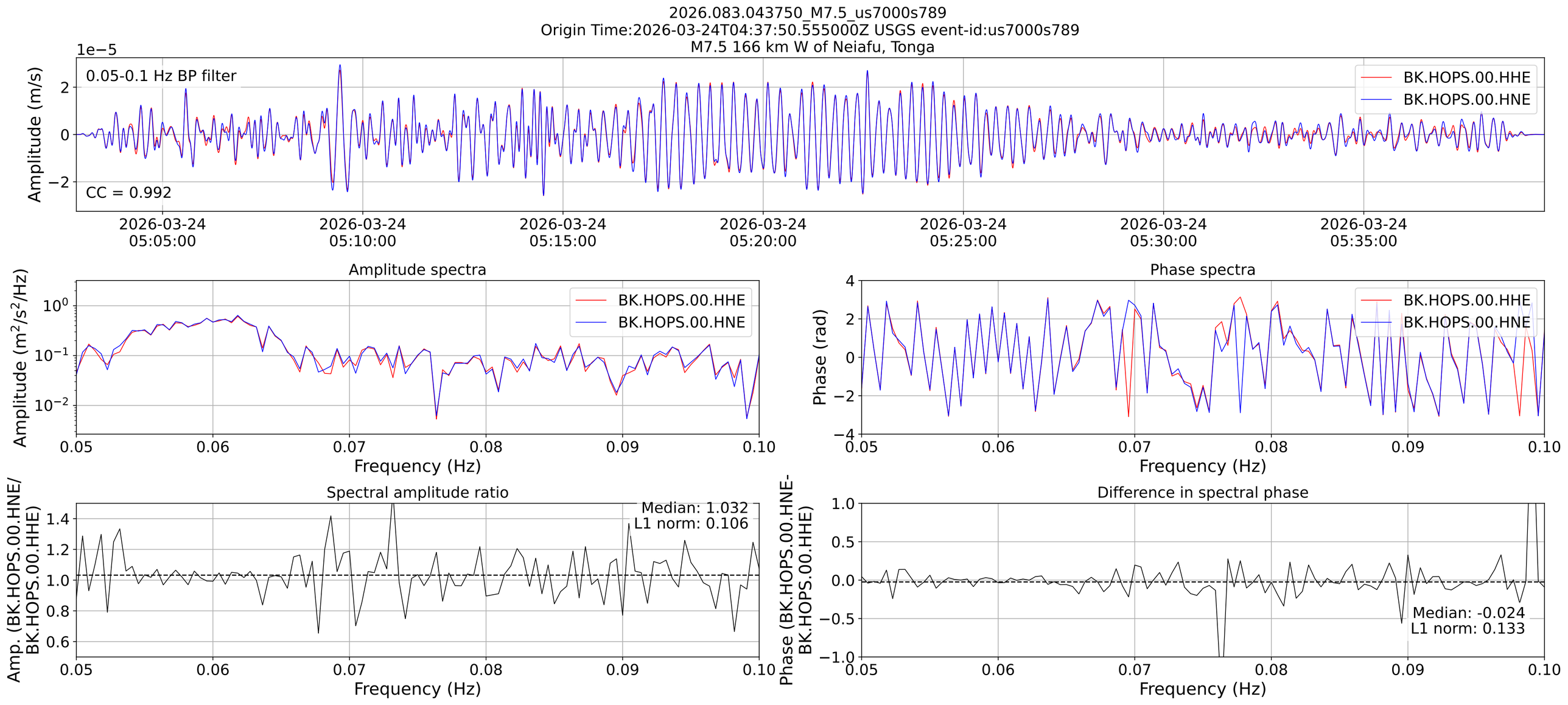

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.954
BK.HAYF.00.HHN
BK.HAYF.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNN/ BK.HAYF.00.HHN)
Median: 1.078
L1 norm: 0.205
Difference in spectral phase
Phase (BK.HAYF.00.HNN- BK.HAYF.00.HHN)
Median: -0.014
L1 norm: 0.200

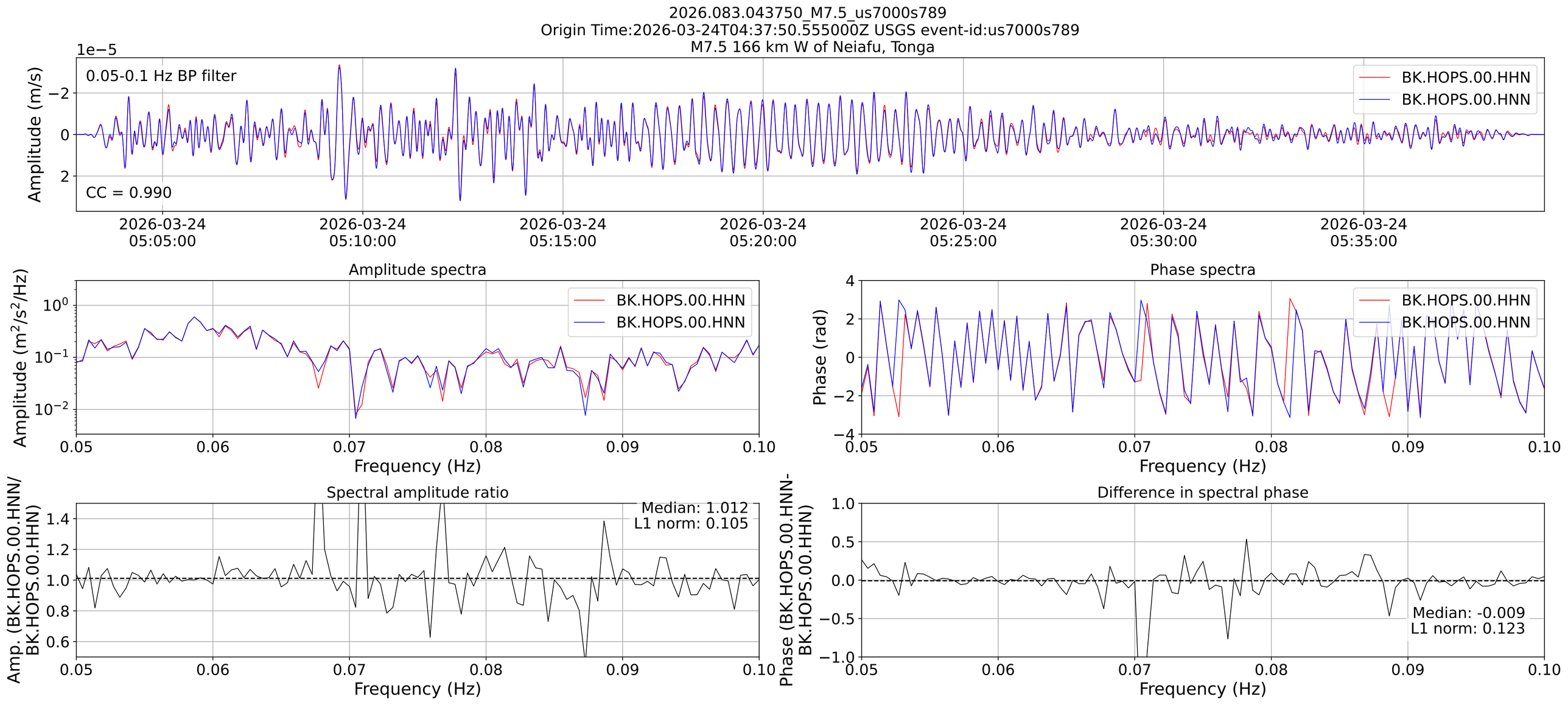

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.HAYF.00.HHZ
BK.HAYF.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HAYF.00.HNZ/ BK.HAYF.00.HHZ)
Median: 0.999
L1 norm: 0.185
Difference in spectral phase
Phase (BK.HAYF.00.HNZ- BK.HAYF.00.HHZ)
Median: 0.008
L1 norm: 0.232

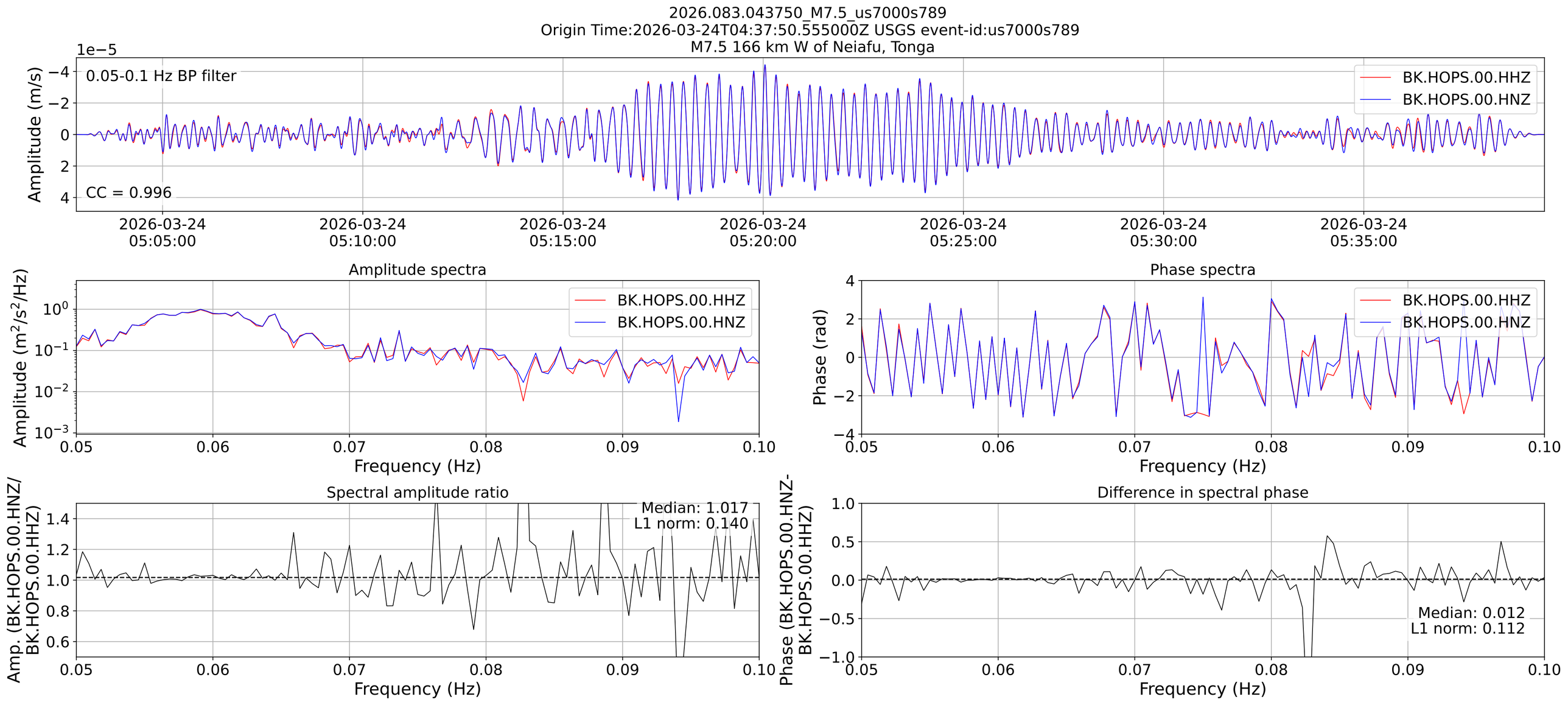

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.HELL.00.HHE
BK.HELL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNE/ BK.HELL.00.HHE)
Median: 1.009
L1 norm: 0.207
Difference in spectral phase
Phase (BK.HELL.00.HNE- BK.HELL.00.HHE)
Median: 0.005
L1 norm: 0.191

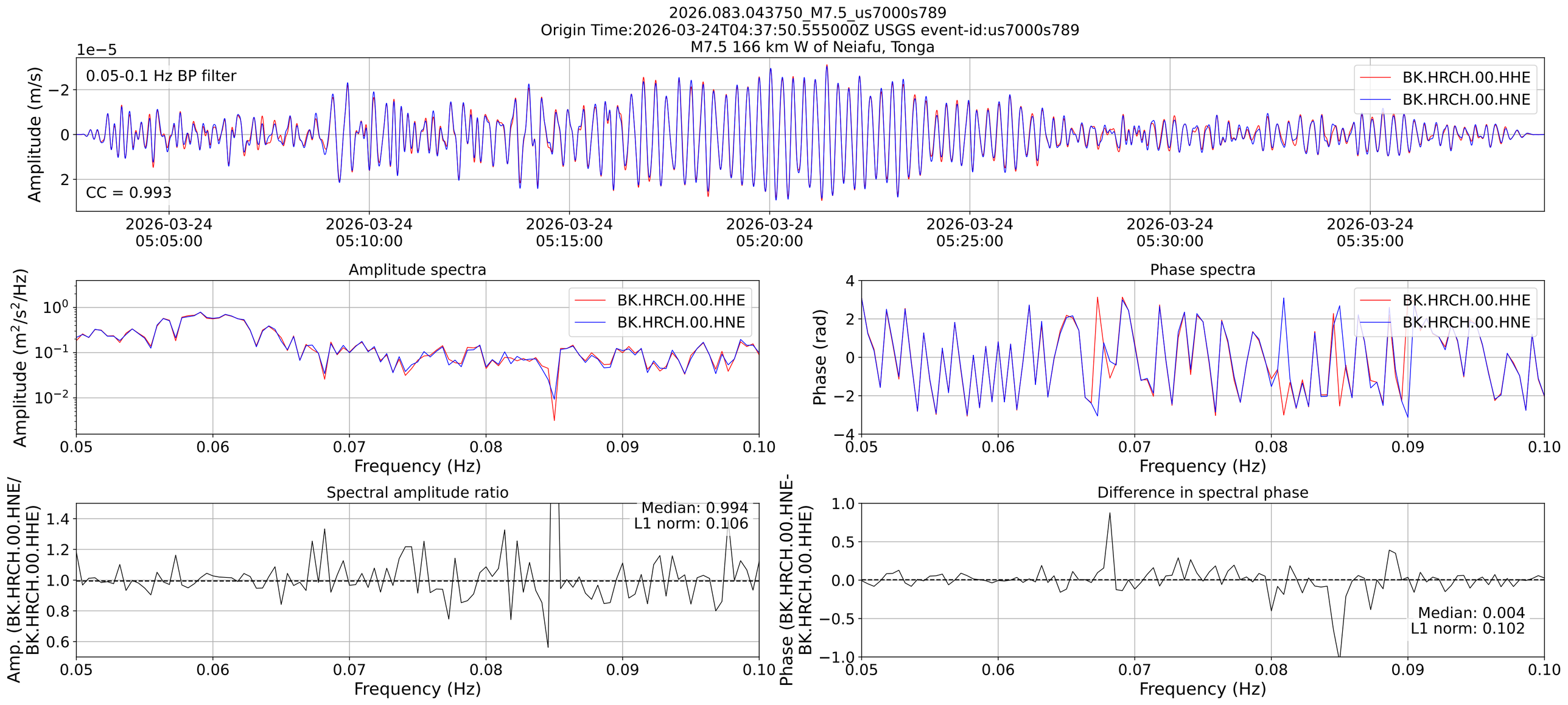

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.969
Amplitude (m/s)
BK.HELL.00.HHN
BK.HELL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNN/ BK.HELL.00.HHN)
Median: 0.999
L1 norm: 0.197
Difference in spectral phase
Phase (BK.HELL.00.HNN- BK.HELL.00.HHN)
Median: 0.003
L1 norm: 0.232

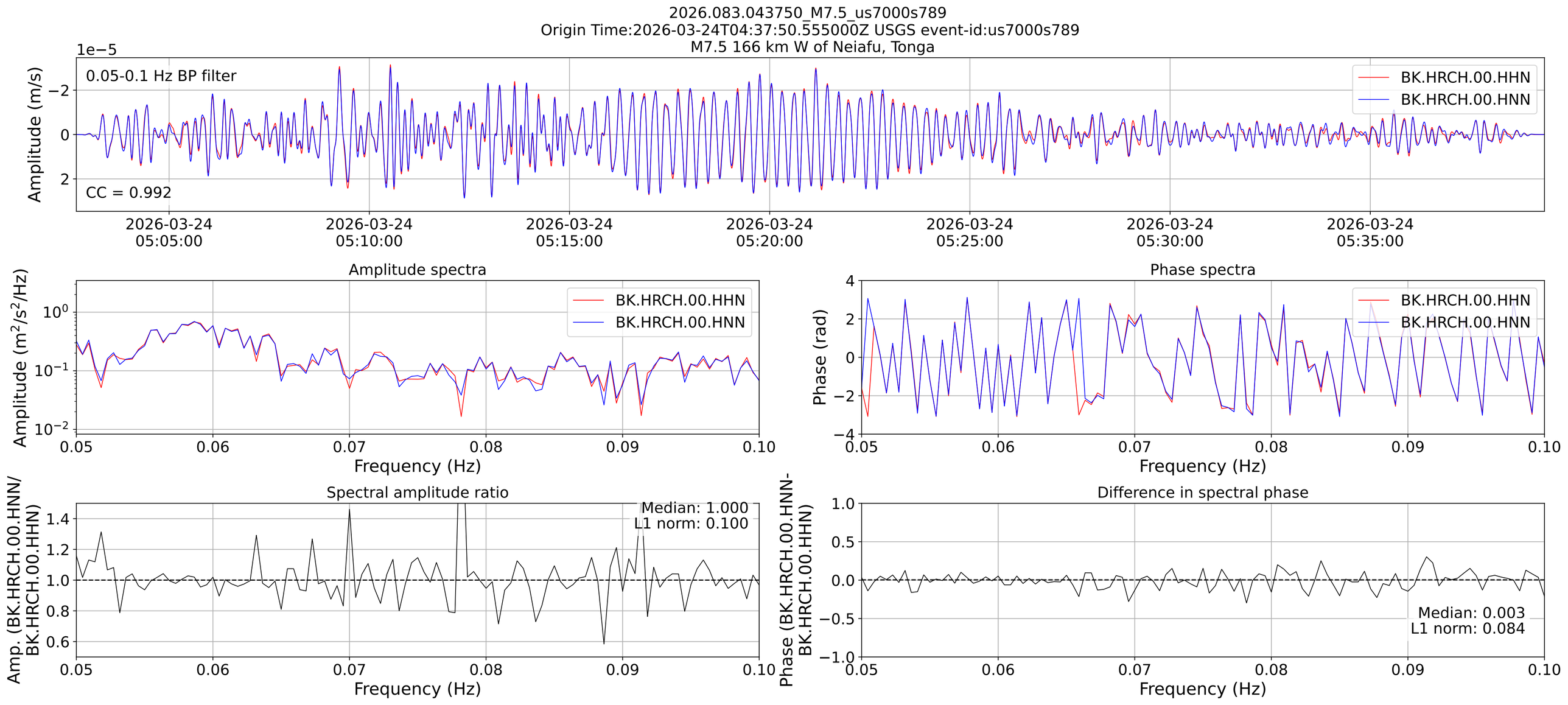

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.HELL.00.HHZ
BK.HELL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HELL.00.HNZ/ BK.HELL.00.HHZ)
Median: 0.989
L1 norm: 0.143
Difference in spectral phase
Phase (BK.HELL.00.HNZ- BK.HELL.00.HHZ)
Median: 0.002
L1 norm: 0.148

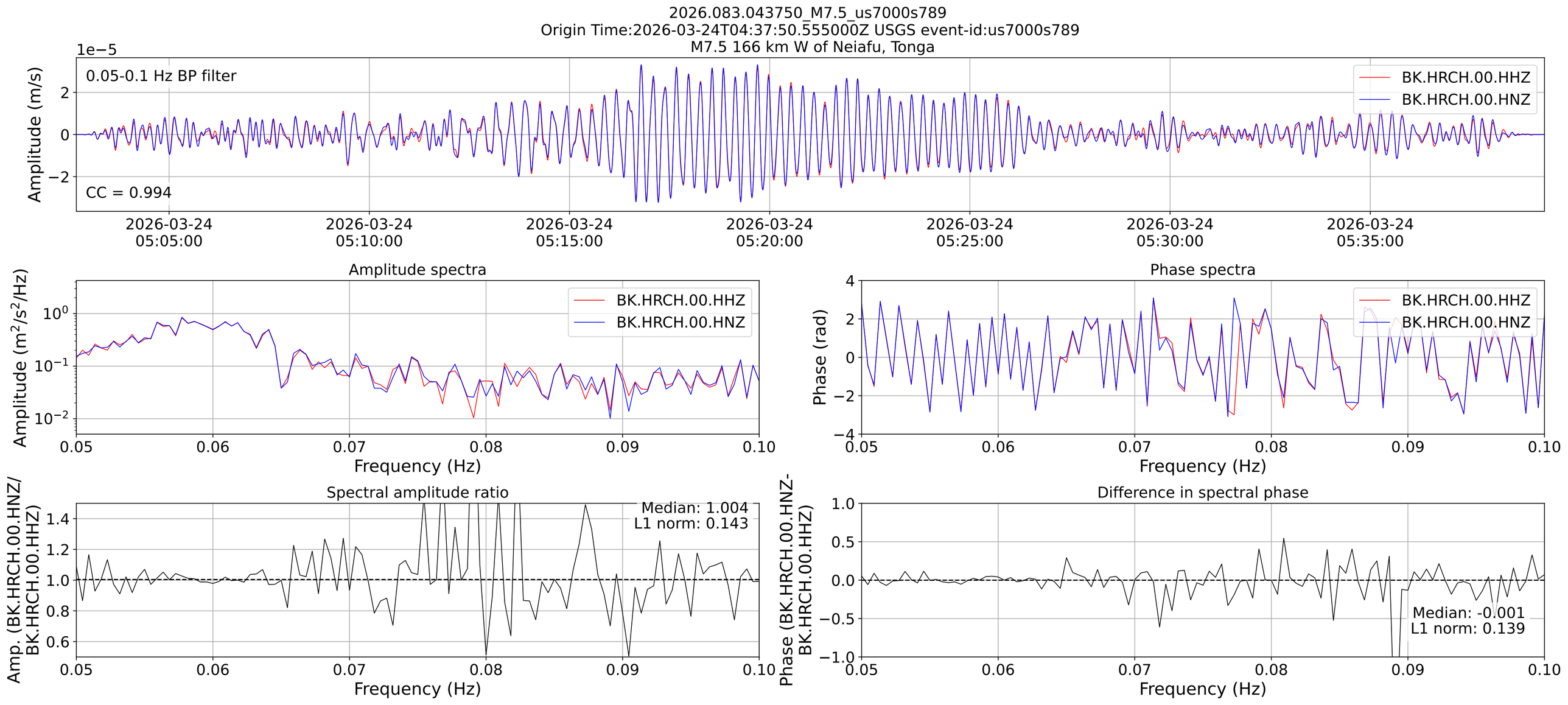

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.992
BK.HOPS.00.HHE
BK.HOPS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNE/ BK.HOPS.00.HHE)
Median: 1.032
L1 norm: 0.106
Difference in spectral phase
Phase (BK.HOPS.00.HNE- BK.HOPS.00.HHE)
Median: -0.024
L1 norm: 0.133

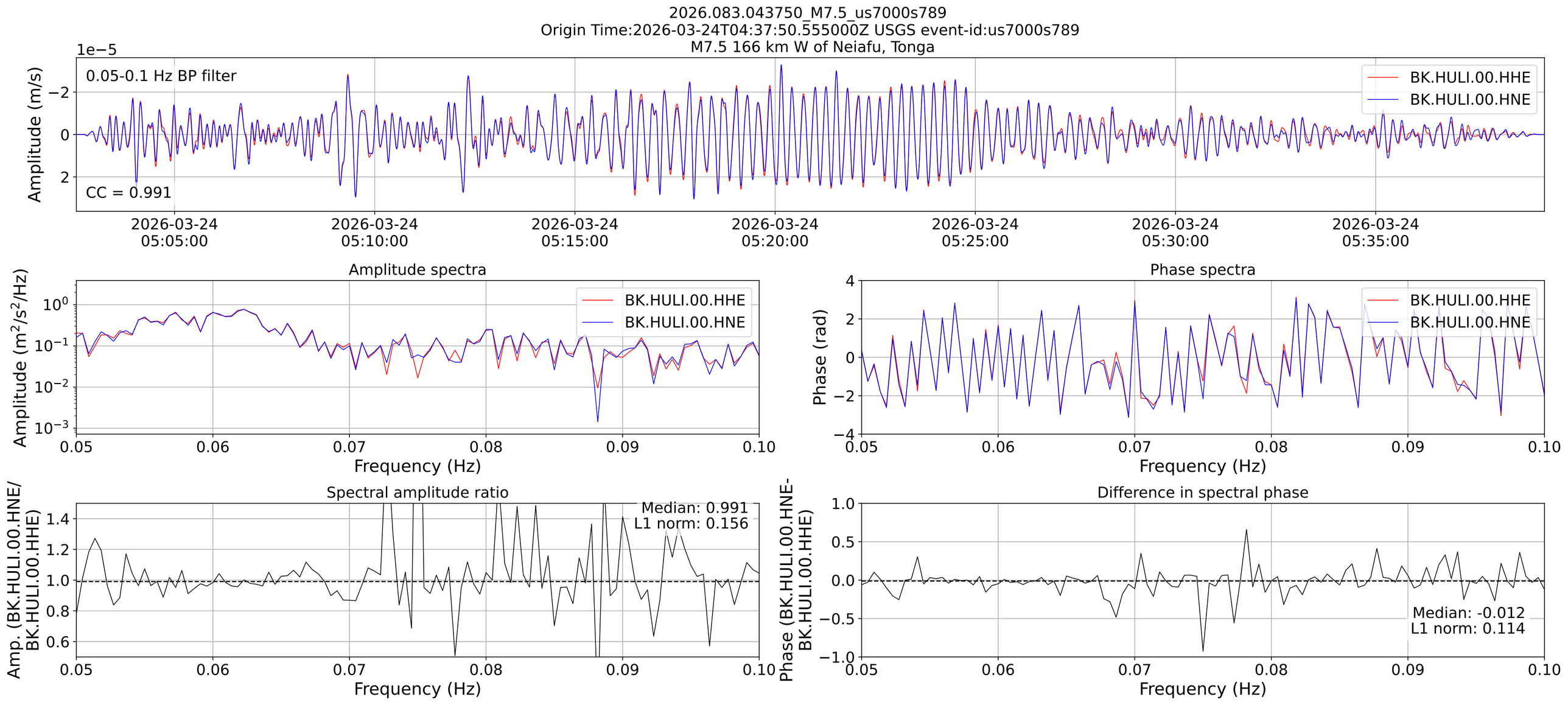

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.990
BK.HOPS.00.HHN
BK.HOPS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNN/ BK.HOPS.00.HHN)
Median: 1.012
L1 norm: 0.105
Difference in spectral phase
Phase (BK.HOPS.00.HNN- BK.HOPS.00.HHN)
Median: -0.009
L1 norm: 0.123

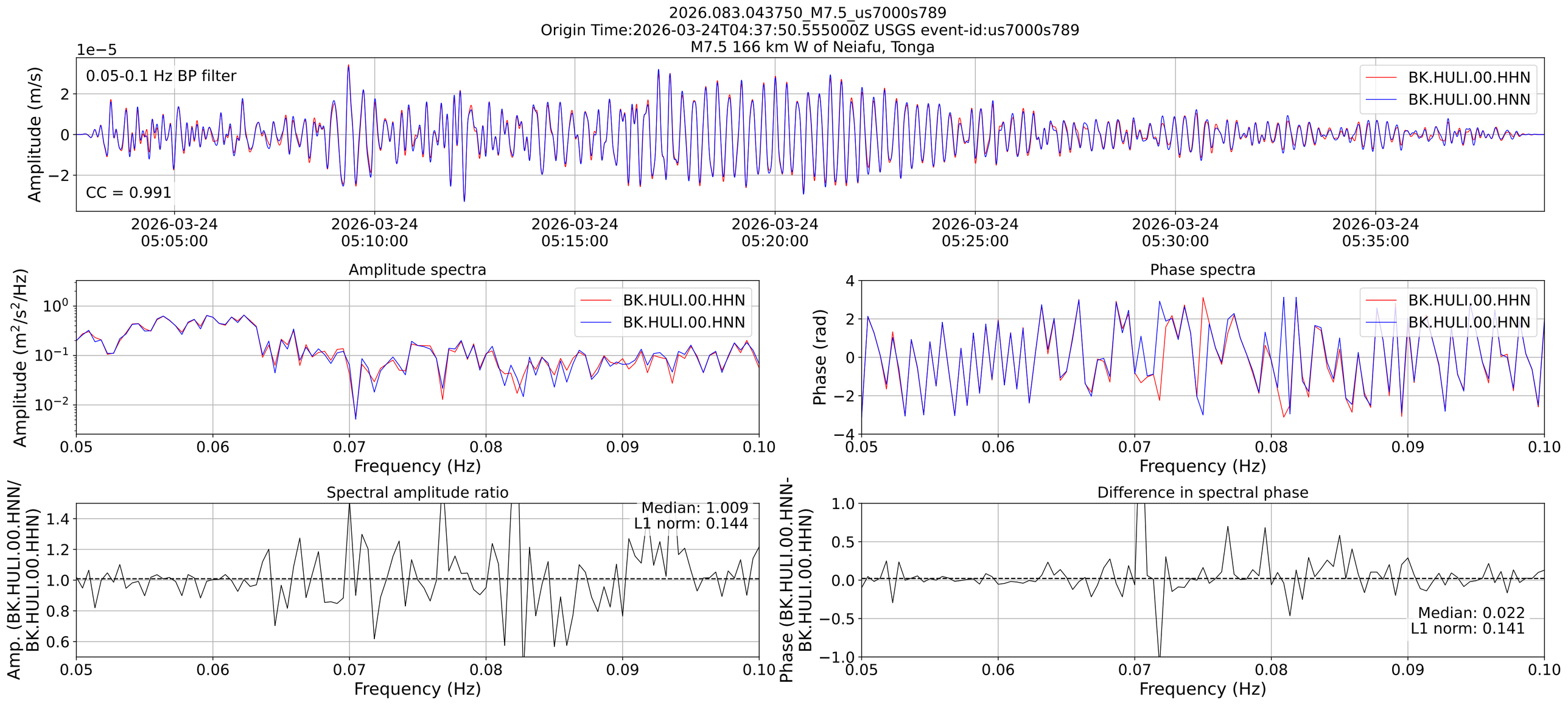

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.HOPS.00.HHZ
BK.HOPS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HOPS.00.HNZ/ BK.HOPS.00.HHZ)
Median: 1.017
L1 norm: 0.140
Difference in spectral phase
Phase (BK.HOPS.00.HNZ- BK.HOPS.00.HHZ)
Median: 0.012
L1 norm: 0.112

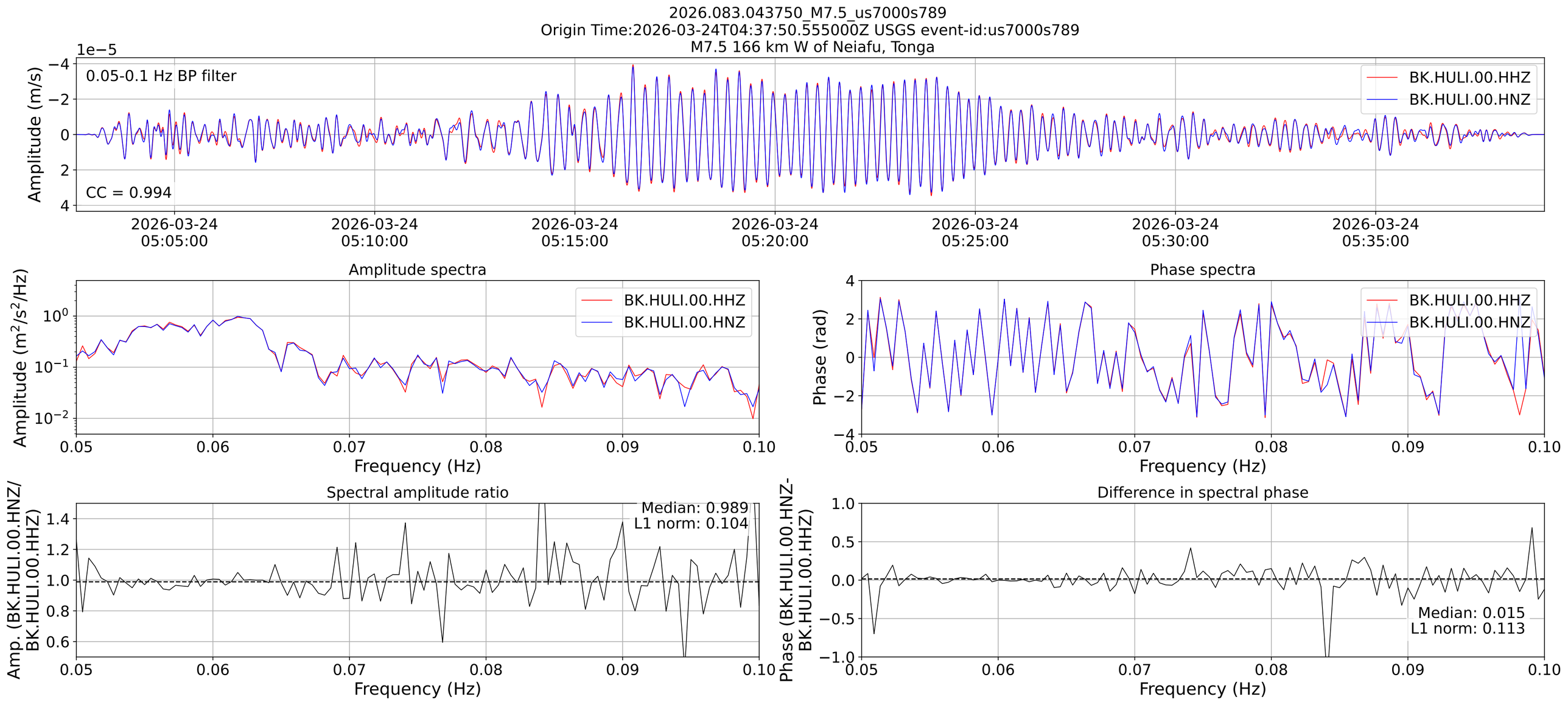

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.HRCH.00.HHE
BK.HRCH.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNE/ BK.HRCH.00.HHE)
Median: 0.994
L1 norm: 0.106
Difference in spectral phase
Phase (BK.HRCH.00.HNE- BK.HRCH.00.HHE)
Median: 0.004
L1 norm: 0.102

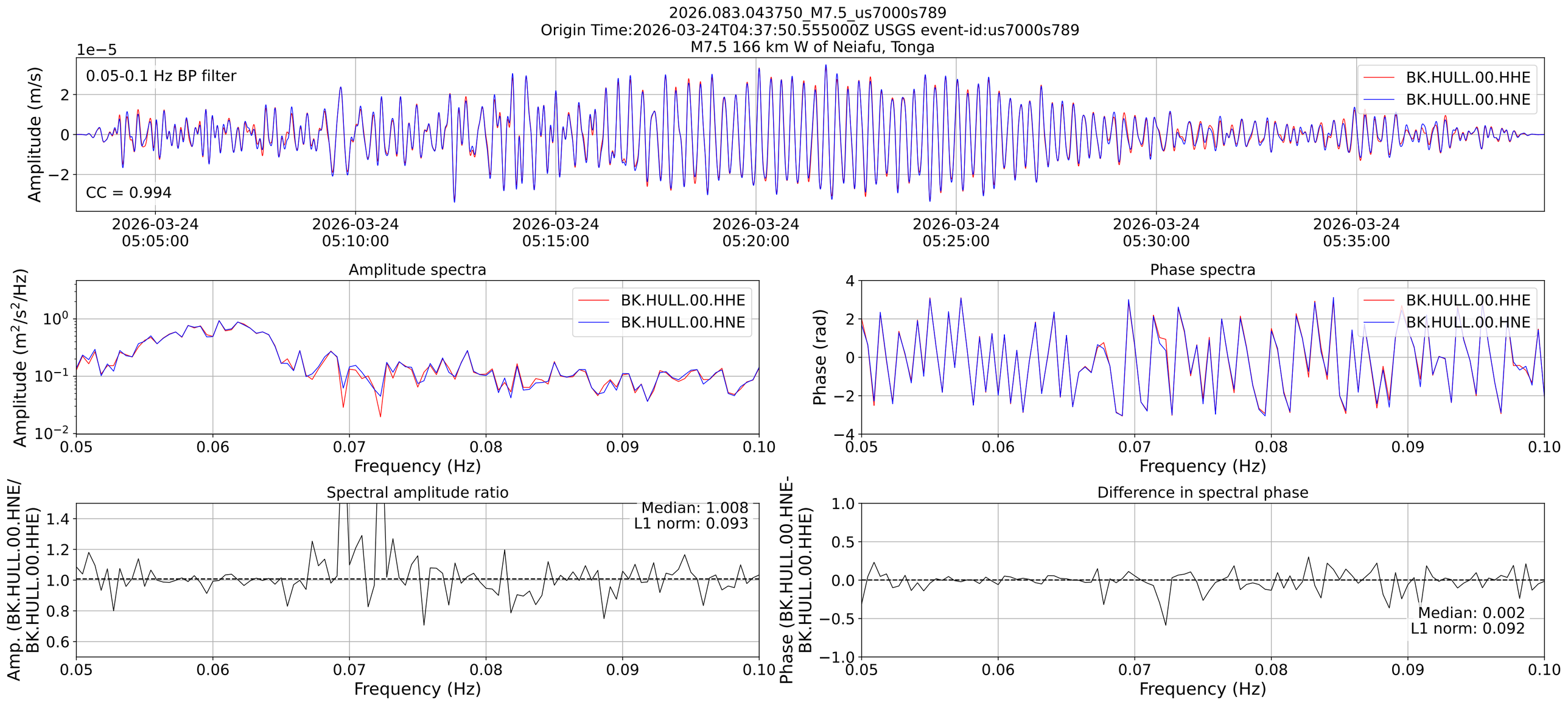

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.HRCH.00.HHN
BK.HRCH.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNN/ BK.HRCH.00.HHN)
Median: 1.000
L1 norm: 0.100
Difference in spectral phase
Phase (BK.HRCH.00.HNN- BK.HRCH.00.HHN)
Median: 0.003
L1 norm: 0.084

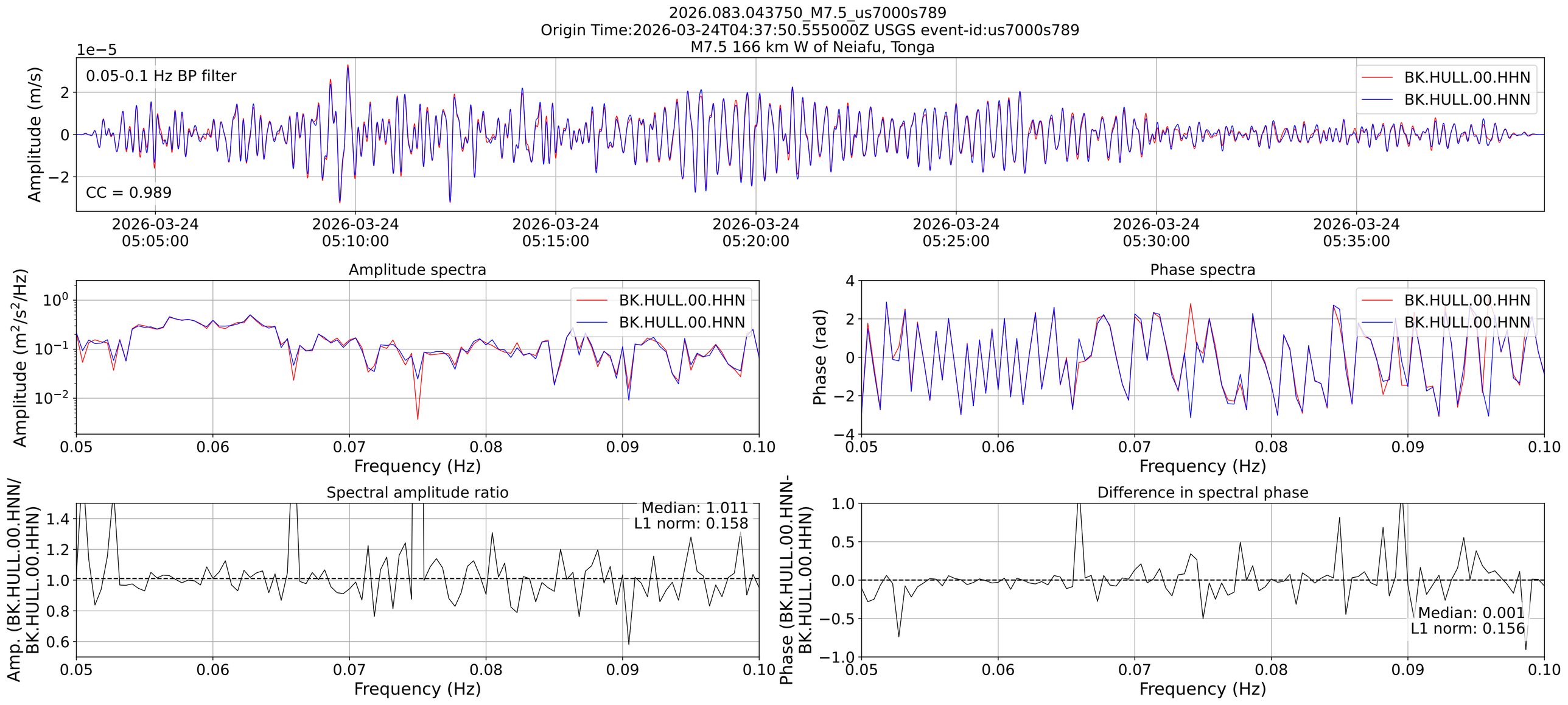

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.HRCH.00.HHZ
BK.HRCH.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HRCH.00.HNZ/ BK.HRCH.00.HHZ)
Median: 1.004
L1 norm: 0.143
Difference in spectral phase
Phase (BK.HRCH.00.HNZ- BK.HRCH.00.HHZ)
Median: -0.001
L1 norm: 0.139

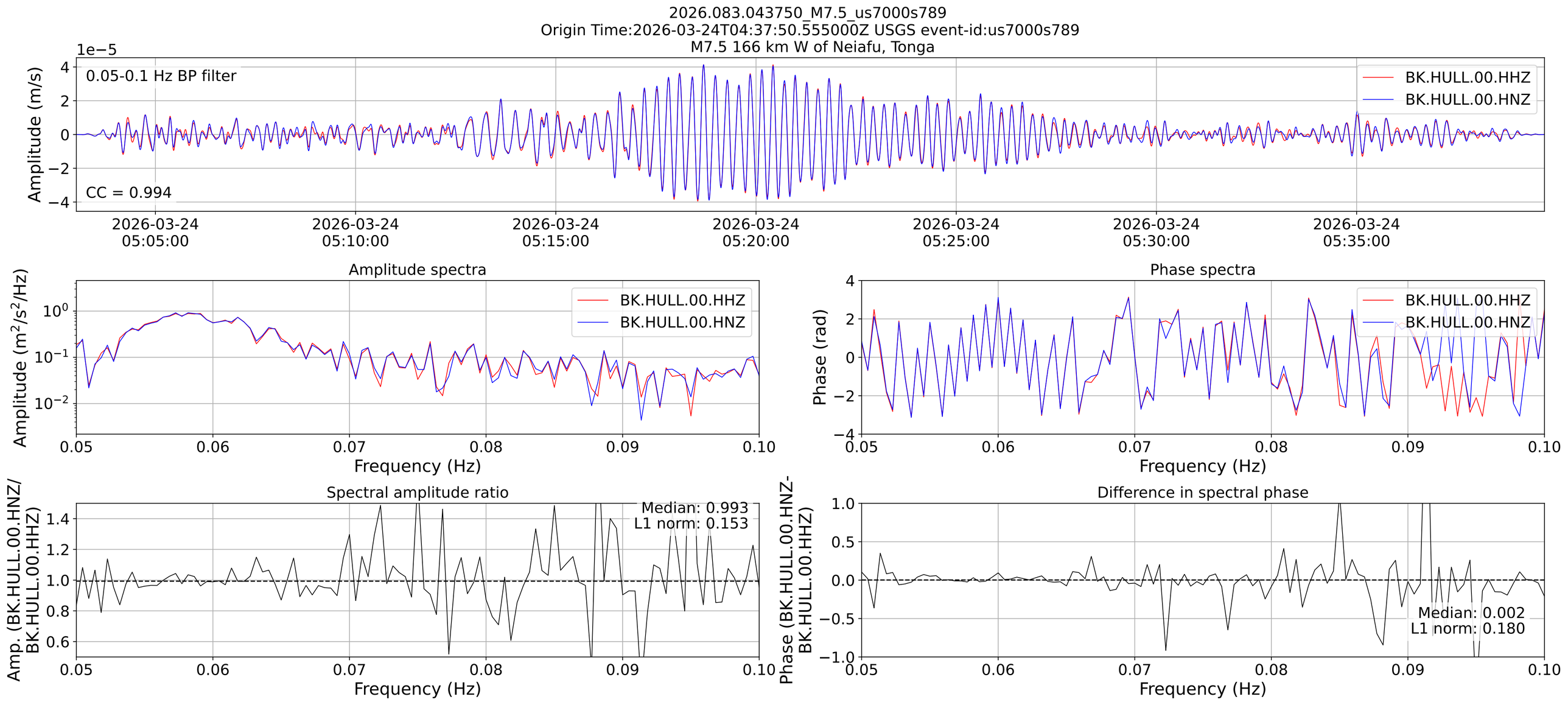

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.HULI.00.HHE
BK.HULI.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNE/ BK.HULI.00.HHE)
Median: 0.991
L1 norm: 0.156
Difference in spectral phase
Phase (BK.HULI.00.HNE- BK.HULI.00.HHE)
Median: -0.012
L1 norm: 0.114

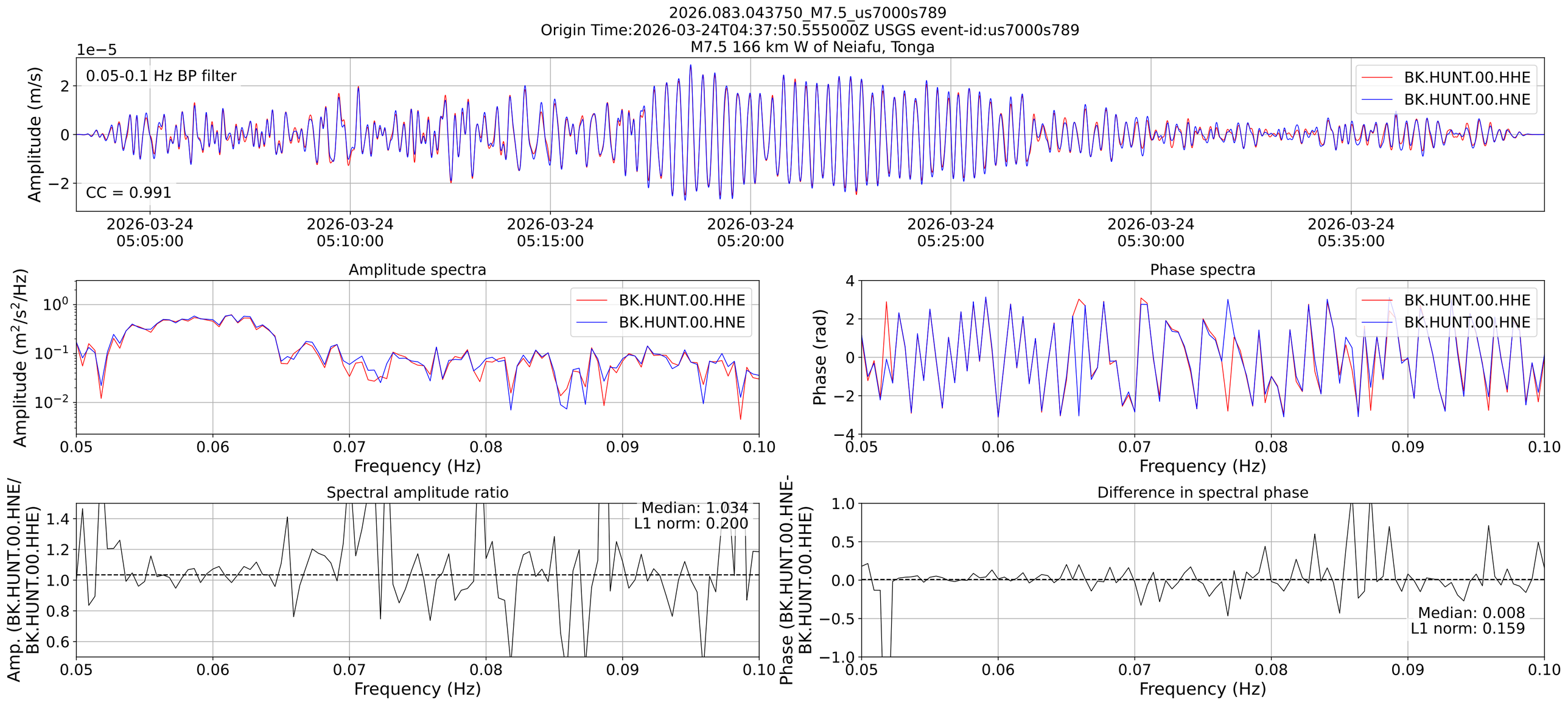

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.HULI.00.HHN
BK.HULI.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNN/ BK.HULI.00.HHN)
Median: 1.009
L1 norm: 0.144
Difference in spectral phase
Phase (BK.HULI.00.HNN- BK.HULI.00.HHN)
Median: 0.022
L1 norm: 0.141

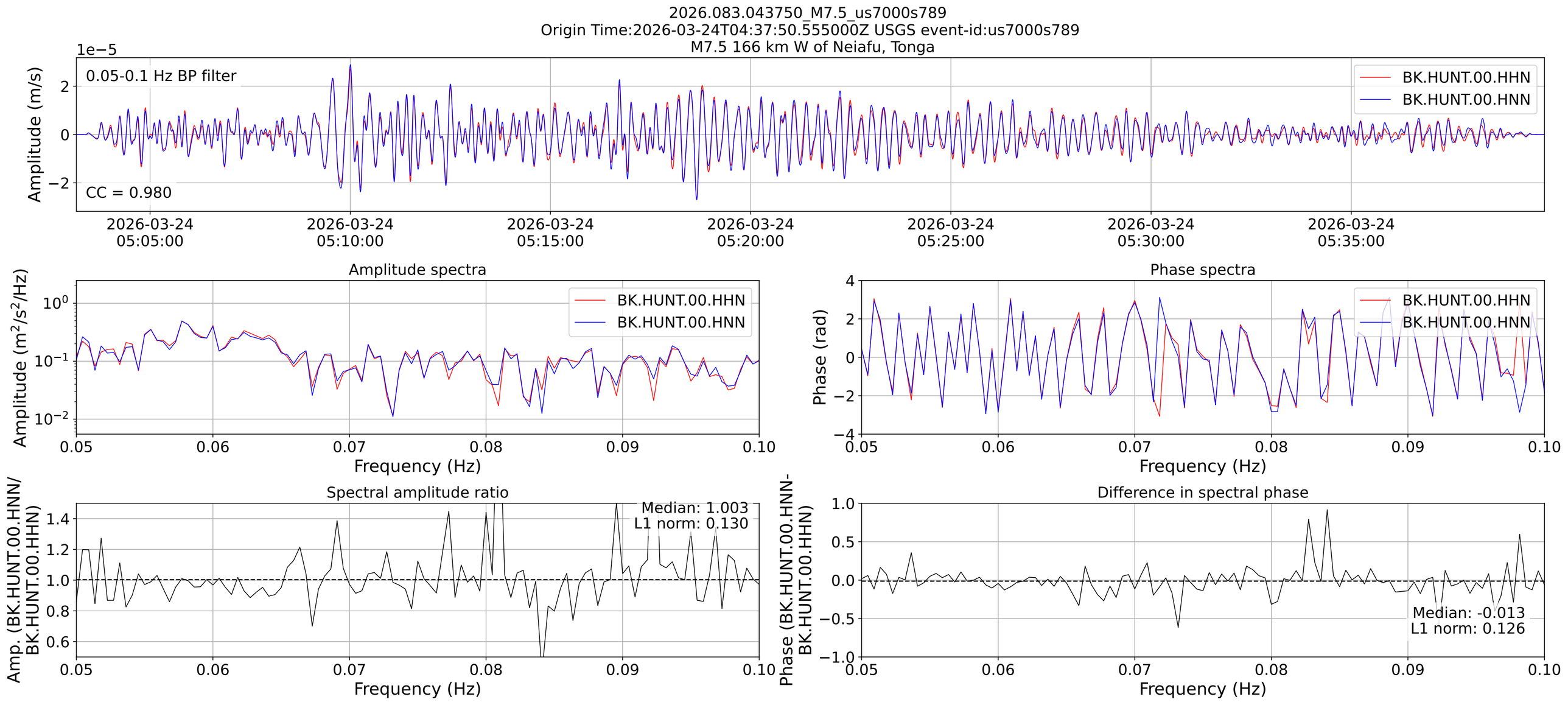

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.HULI.00.HHZ
BK.HULI.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULI.00.HNZ/ BK.HULI.00.HHZ)
Median: 0.989
L1 norm: 0.104
Difference in spectral phase
Phase (BK.HULI.00.HNZ- BK.HULI.00.HHZ)
Median: 0.015
L1 norm: 0.113

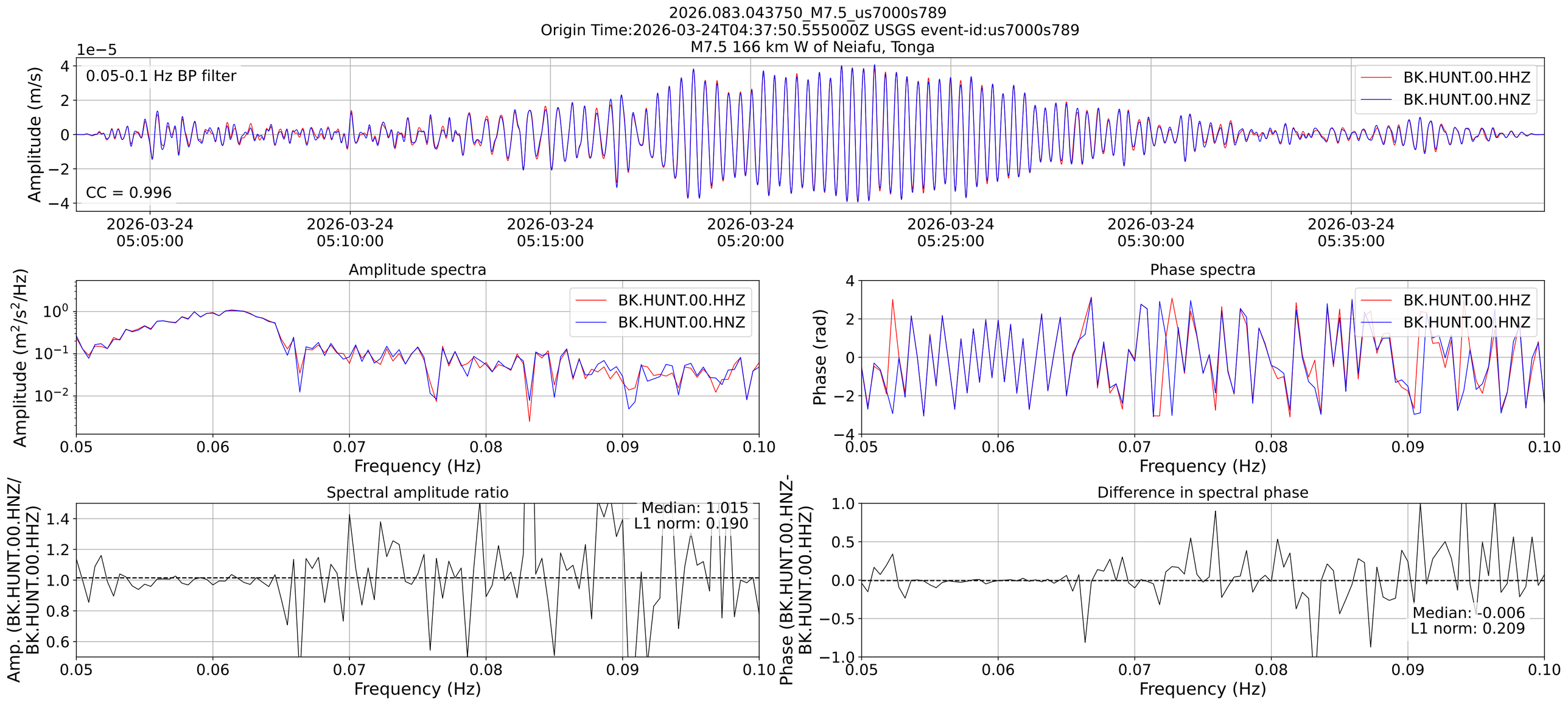

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.HULL.00.HHE
BK.HULL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNE/ BK.HULL.00.HHE)
Median: 1.008
L1 norm: 0.093
Difference in spectral phase
Phase (BK.HULL.00.HNE- BK.HULL.00.HHE)
Median: 0.002
L1 norm: 0.092

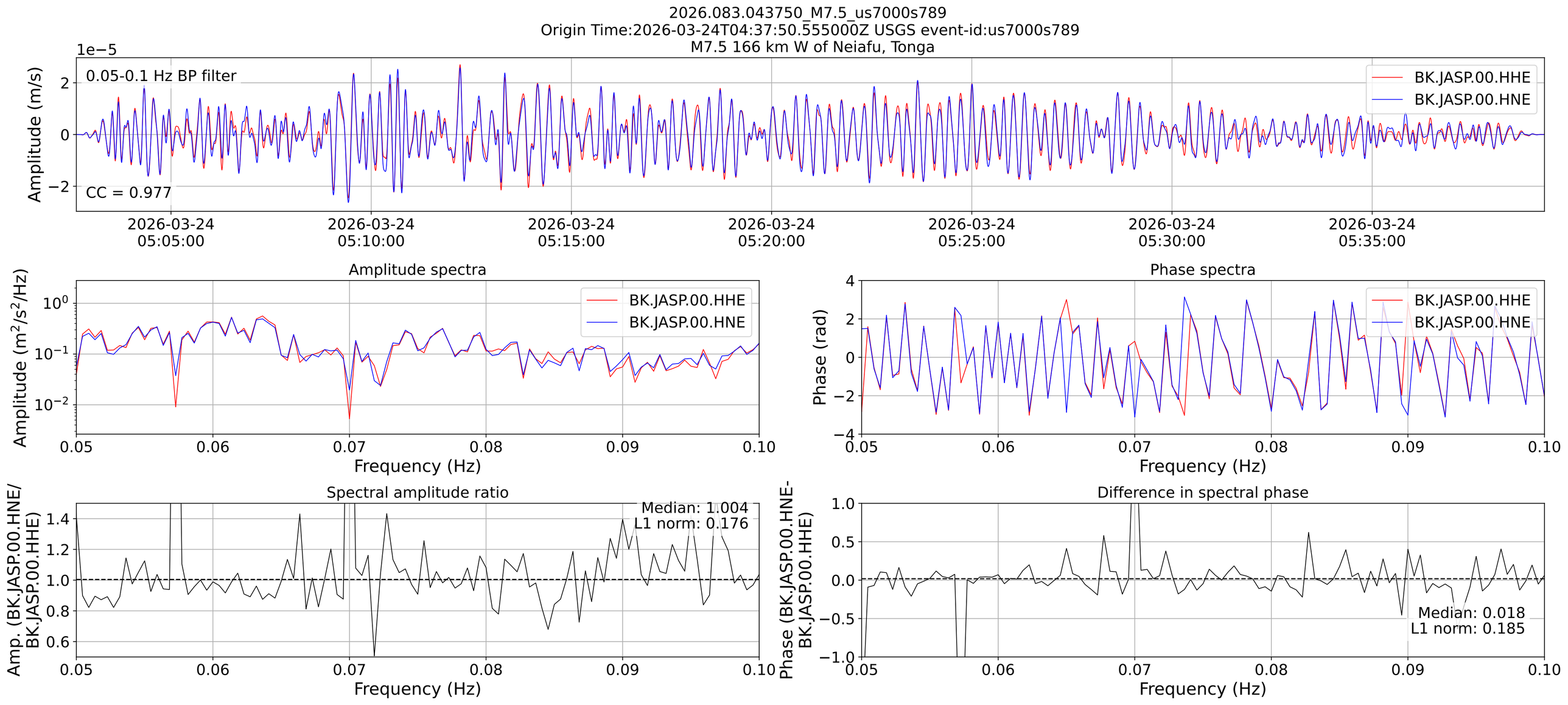

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.HULL.00.HHN
BK.HULL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNN/ BK.HULL.00.HHN)
Median: 1.011
L1 norm: 0.158
Difference in spectral phase
Phase (BK.HULL.00.HNN- BK.HULL.00.HHN)
Median: 0.001
L1 norm: 0.156

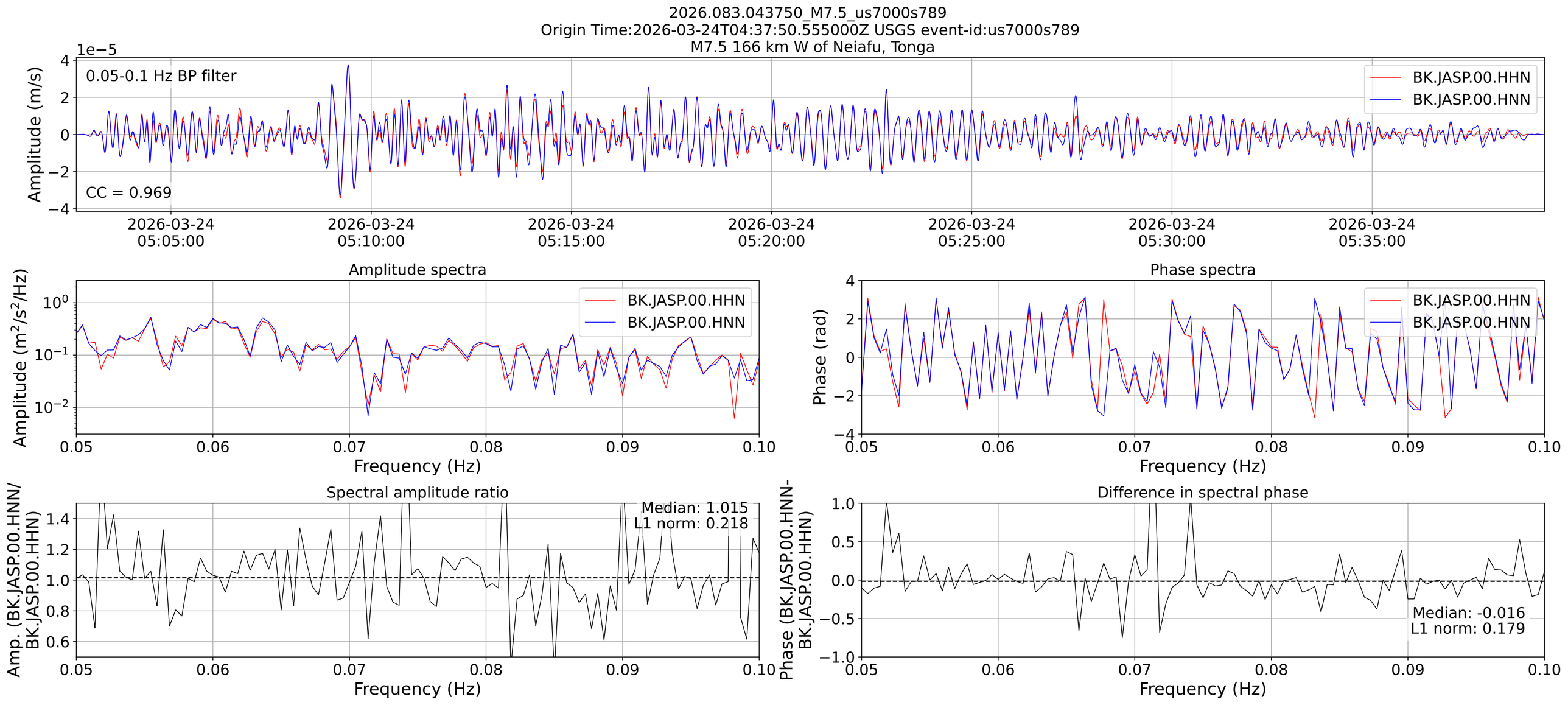

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.HULL.00.HHZ
BK.HULL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HULL.00.HNZ/ BK.HULL.00.HHZ)
Median: 0.993
L1 norm: 0.153
Difference in spectral phase
Phase (BK.HULL.00.HNZ- BK.HULL.00.HHZ)
Median: 0.002
L1 norm: 0.180

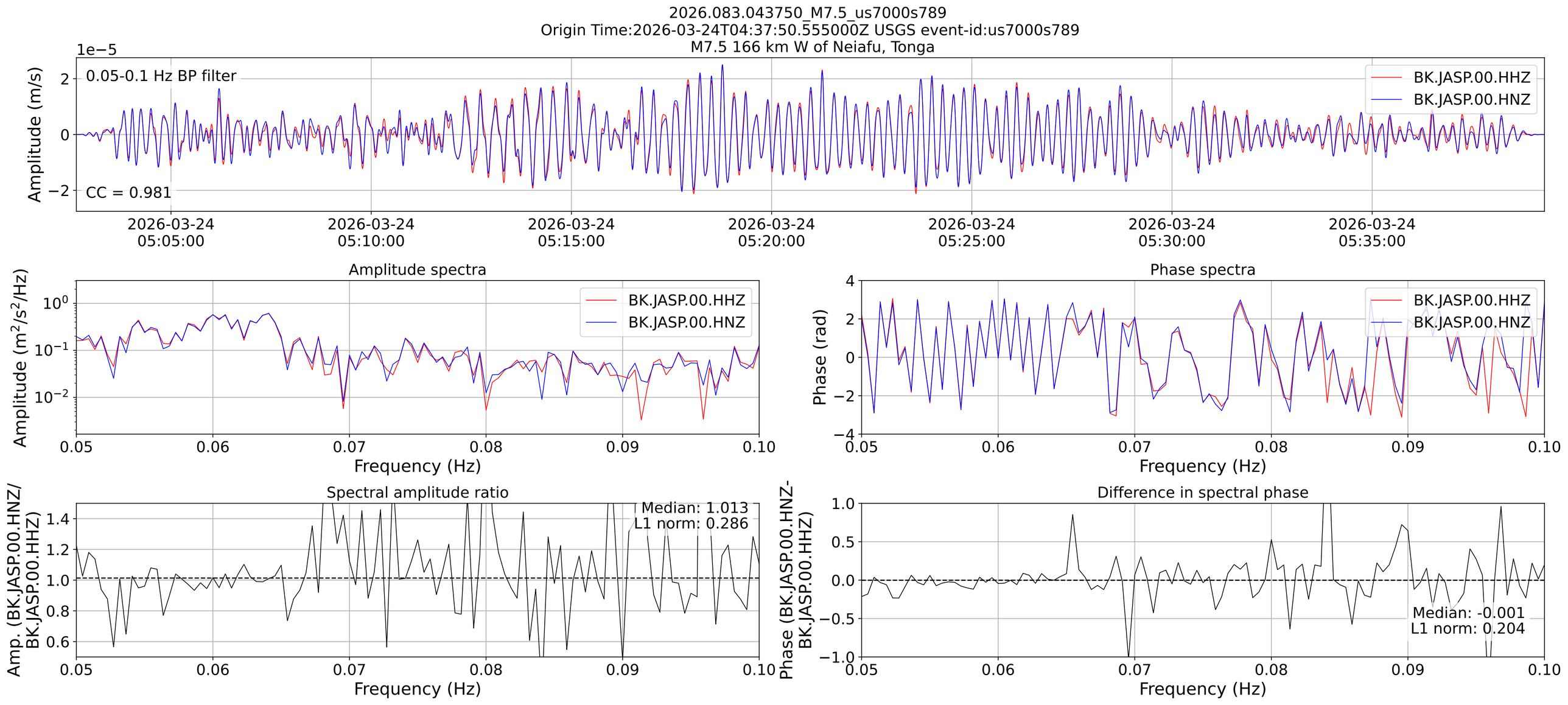

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.HUNT.00.HHE
BK.HUNT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNE/ BK.HUNT.00.HHE)
Median: 1.034
L1 norm: 0.200
Difference in spectral phase
Phase (BK.HUNT.00.HNE- BK.HUNT.00.HHE)
Median: 0.008
L1 norm: 0.159

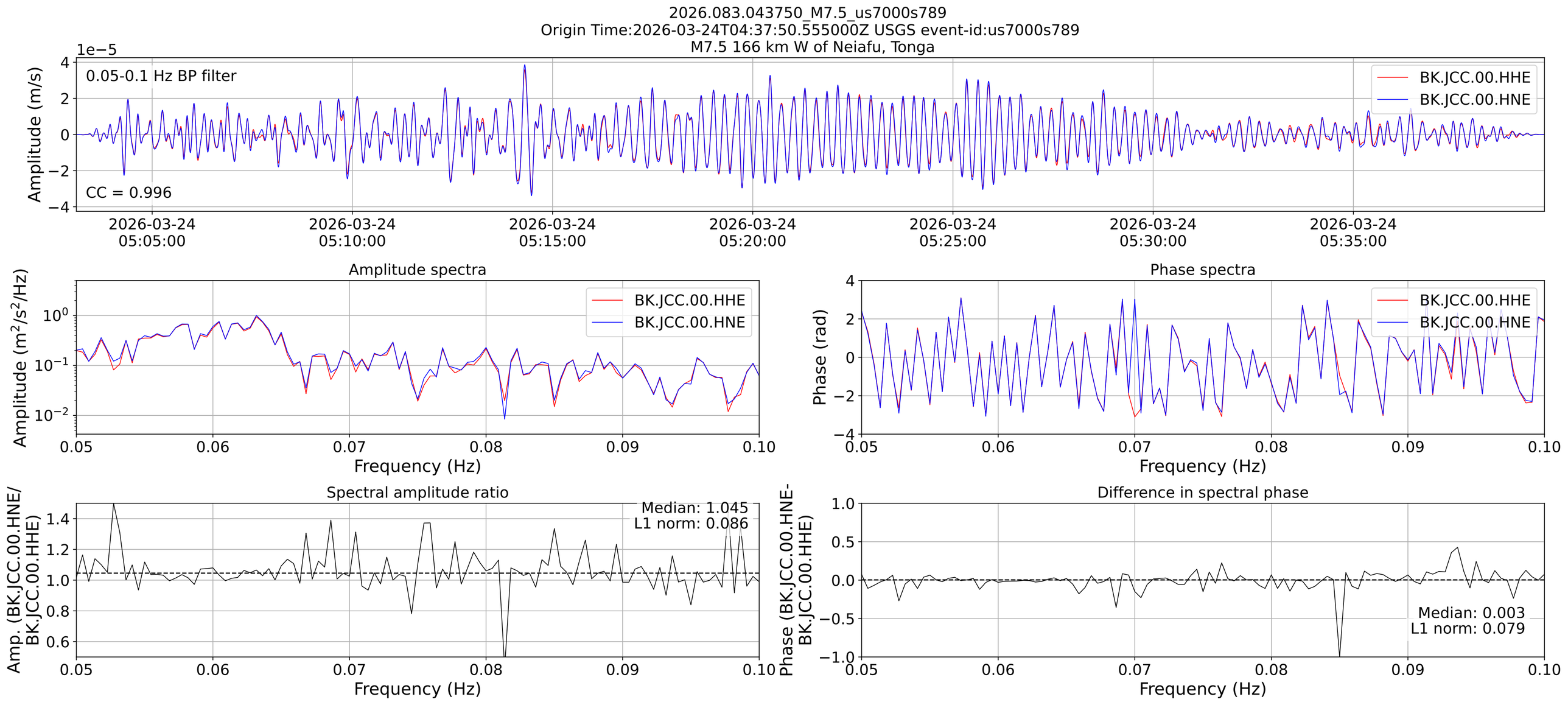

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.HUNT.00.HHN
BK.HUNT.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNN/ BK.HUNT.00.HHN)
Median: 1.003
L1 norm: 0.130
Difference in spectral phase
Phase (BK.HUNT.00.HNN- BK.HUNT.00.HHN)
Median: -0.013
L1 norm: 0.126

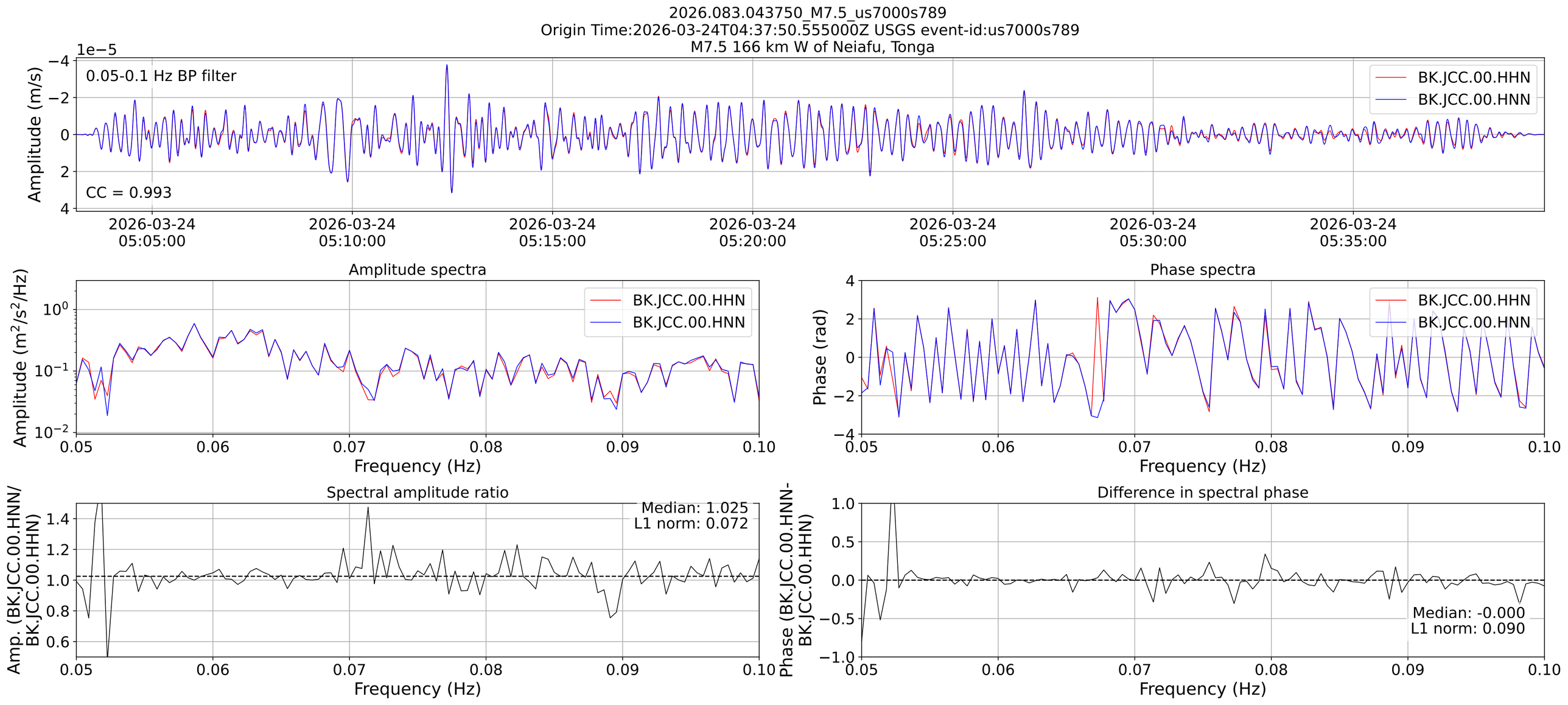

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.HUNT.00.HHZ
BK.HUNT.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.HUNT.00.HNZ/ BK.HUNT.00.HHZ)
Median: 1.015
L1 norm: 0.190
Difference in spectral phase
Phase (BK.HUNT.00.HNZ-BK.HUNT.00.HHZ)
Median: -0.006
L1 norm: 0.209

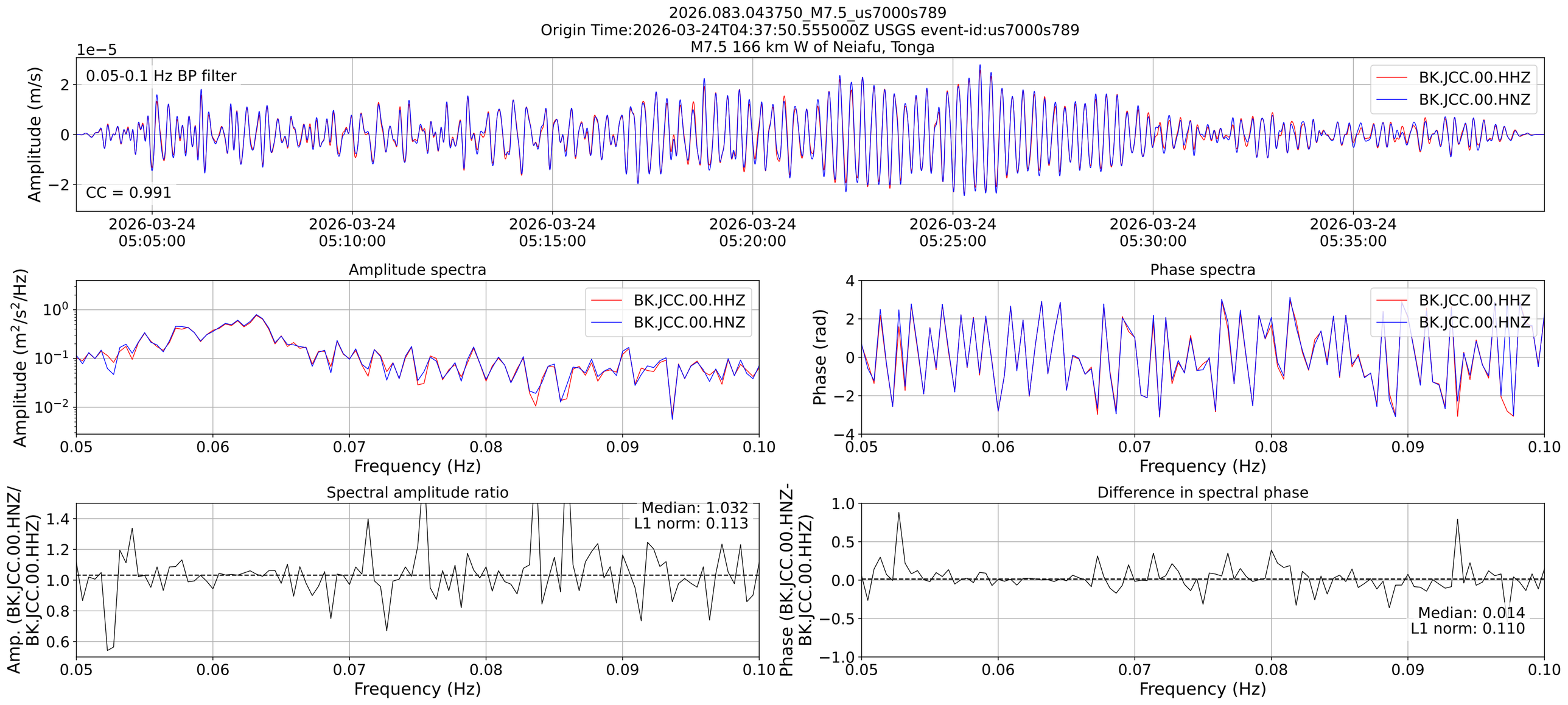

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
BK.JASP.00.HHE
BK.JASP.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNE/ BK.JASP.00.HHE)
Median: 1.004
L1 norm: 0.176
Difference in spectral phase
Phase (BK.JASP.00.HNE- BK.JASP.00.HHE)
Median: 0.018
L1 norm: 0.185

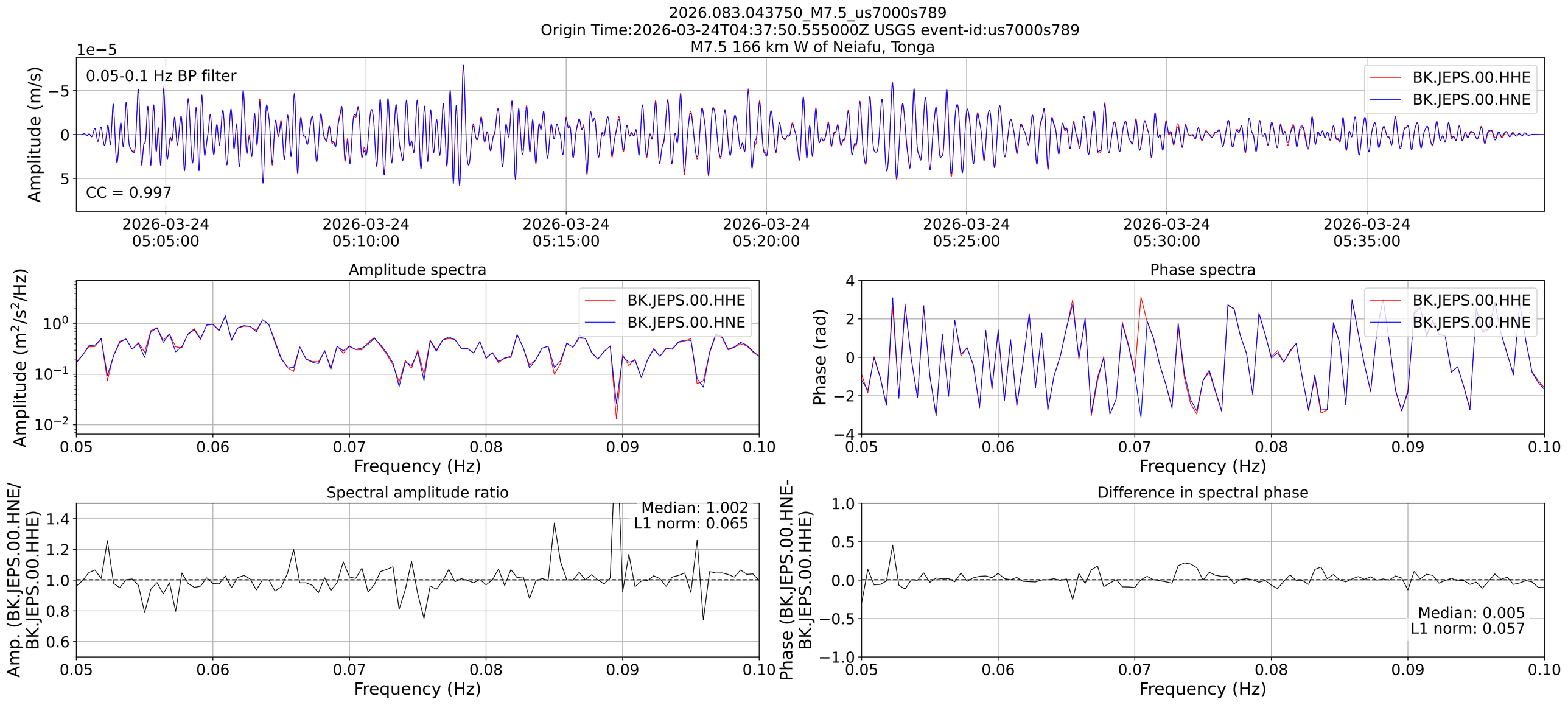

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.969
BK.JASP.00.HHN
BK.JASP.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNN/ BK.JASP.00.HHN)
Median: 1.015
L1 norm: 0.218
Difference in spectral phase
Phase (BK.JASP.00.HNN- BK.JASP.00.HHN)
Median: -0.016
L1 norm: 0.179

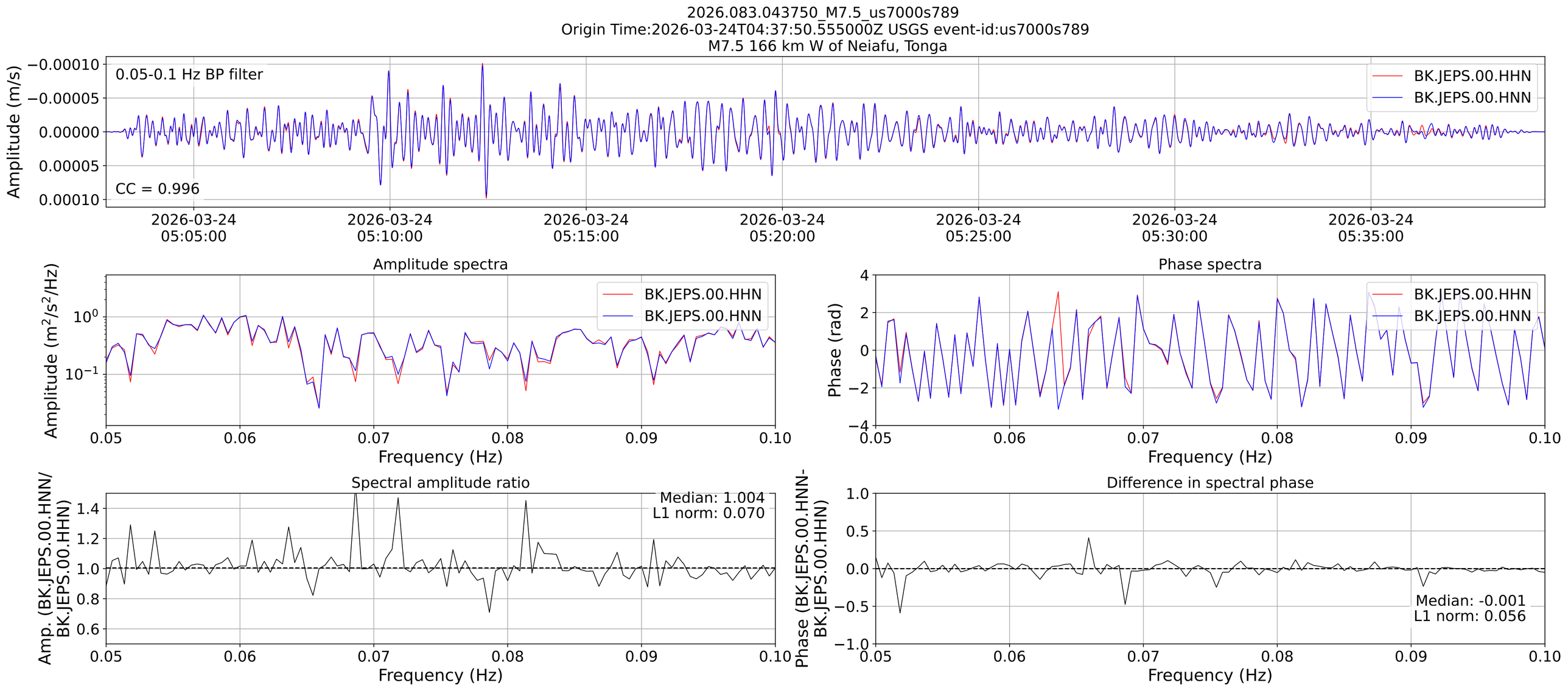

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.JASP.00.HHZ
BK.JASP.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JASP.00.HNZ/ BK.JASP.00.HHZ)
Median: 1.013
L1 norm: 0.286
Difference in spectral phase
Phase (BK.JASP.00.HNZ- BK.JASP.00.HHZ)
Median: -0.001
L1 norm: 0.204

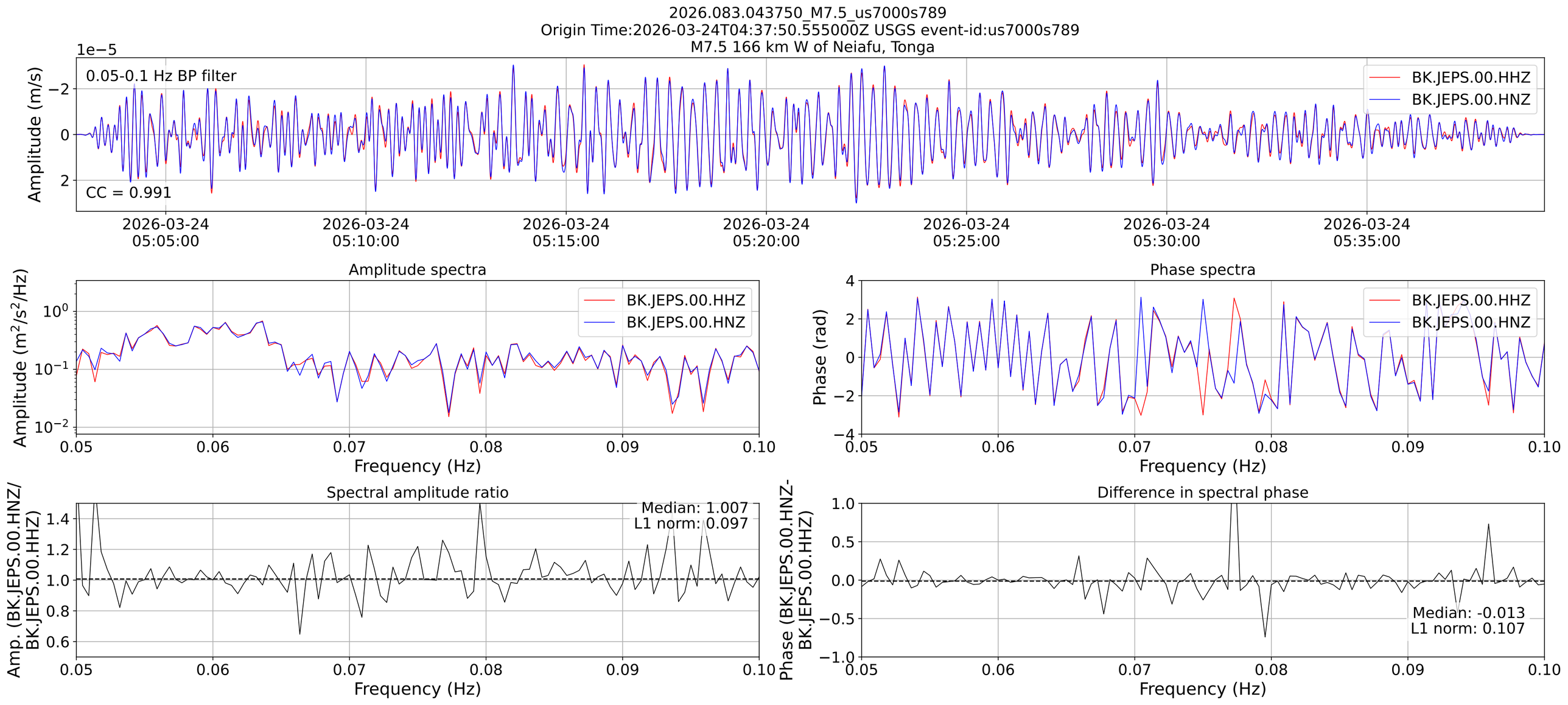

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.996
BK.JCC.00.HHE
BK.JCC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNE/ BK.JCC.00.HHE)
Median: 1.045
L1 norm: 0.086
Difference in spectral phase
Phase (BK.JCC.00.HNE- BK.JCC.00.HHE)
Median: 0.003
L1 norm: 0.079

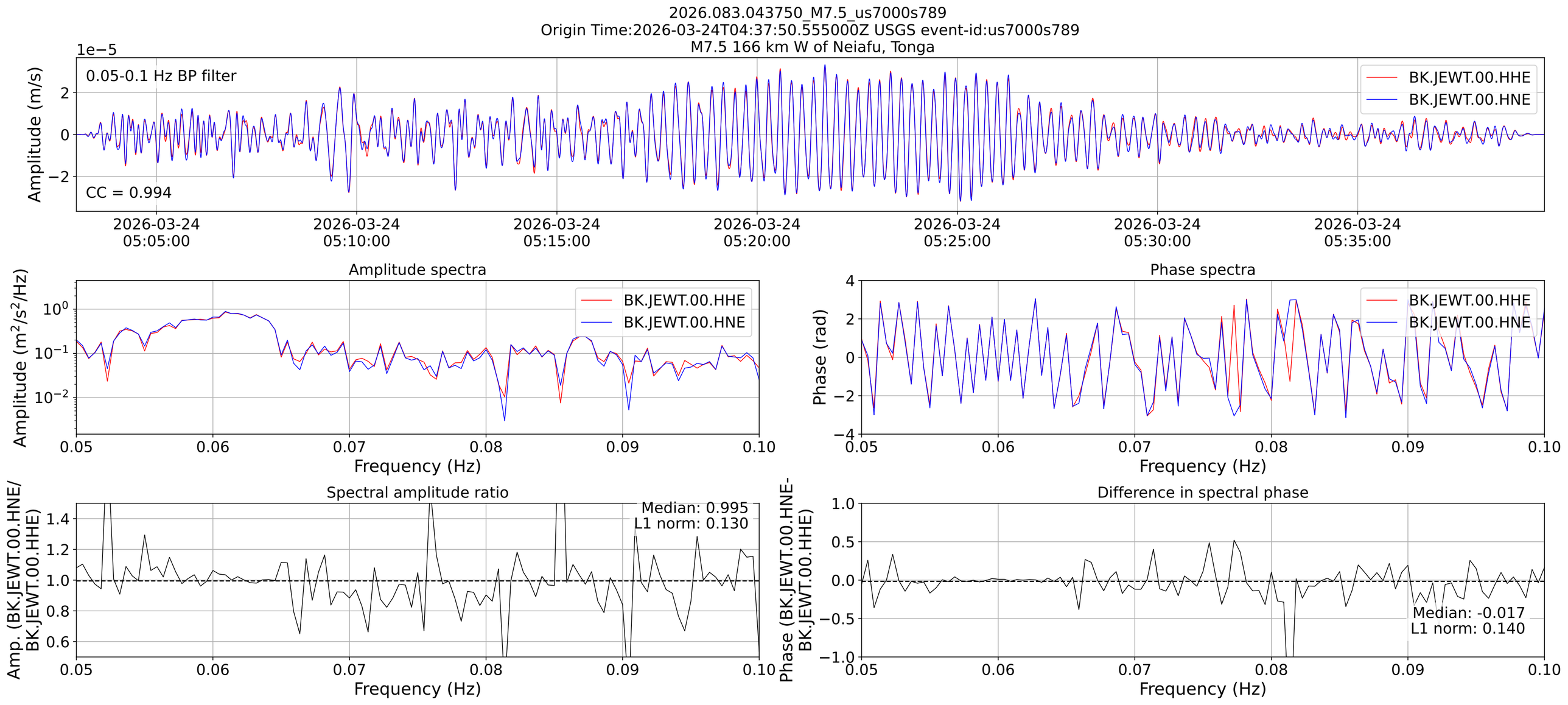

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.JCC.00.HHN
BK.JCC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNN/ BK.JCC.00.HHN)
Median: 1.025
L1 norm: 0.072
Difference in spectral phase
Phase (BK.JCC.00.HNN- BK.JCC.00.HHN)
Median: -0.000
L1 norm: 0.090

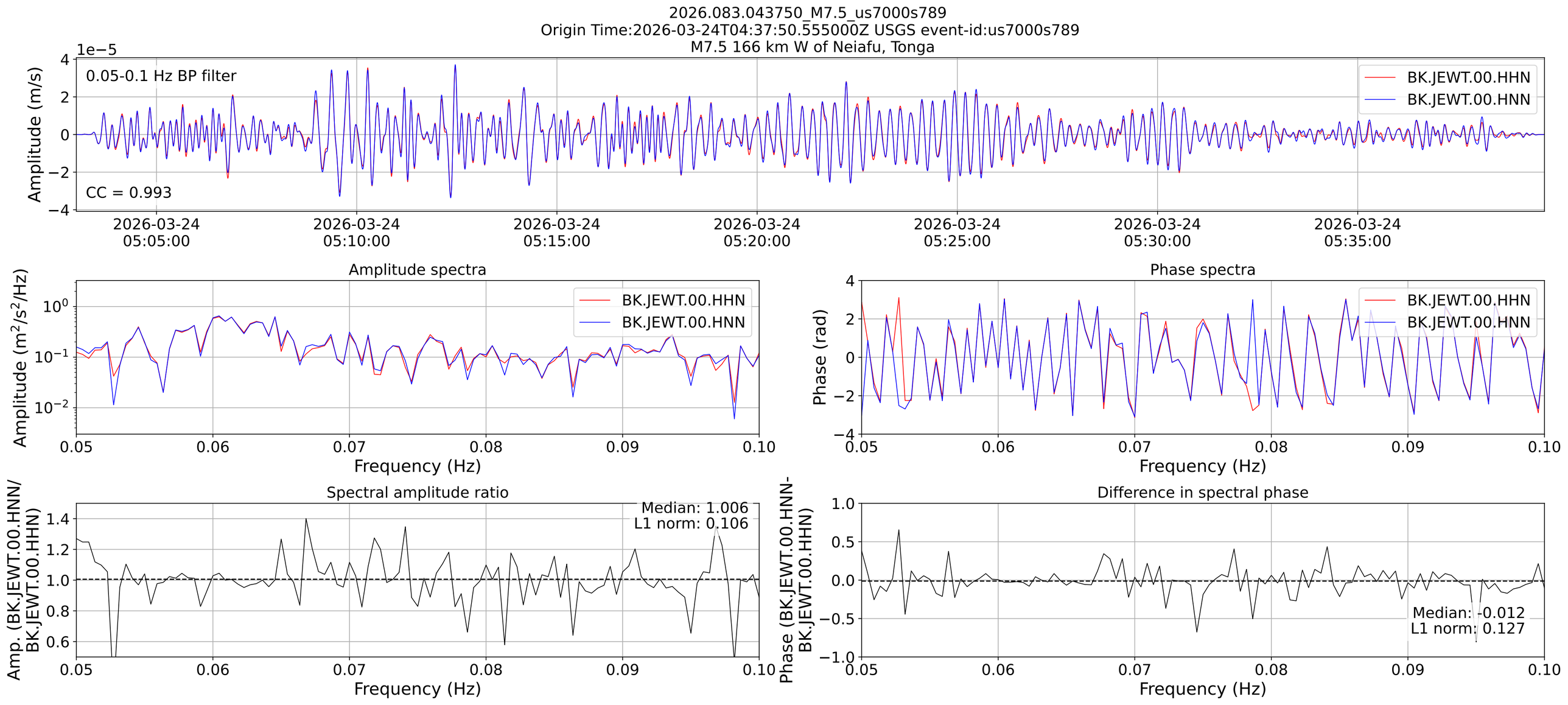

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.JCC.00.HHZ
BK.JCC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JCC.00.HNZ/ BK.JCC.00.HHZ)
Median: 1.032
L1 norm: 0.113
Difference in spectral phase
Phase (BK.JCC.00.HNZ- BK.JCC.00.HHZ)
Median: 0.014
L1 norm: 0.110

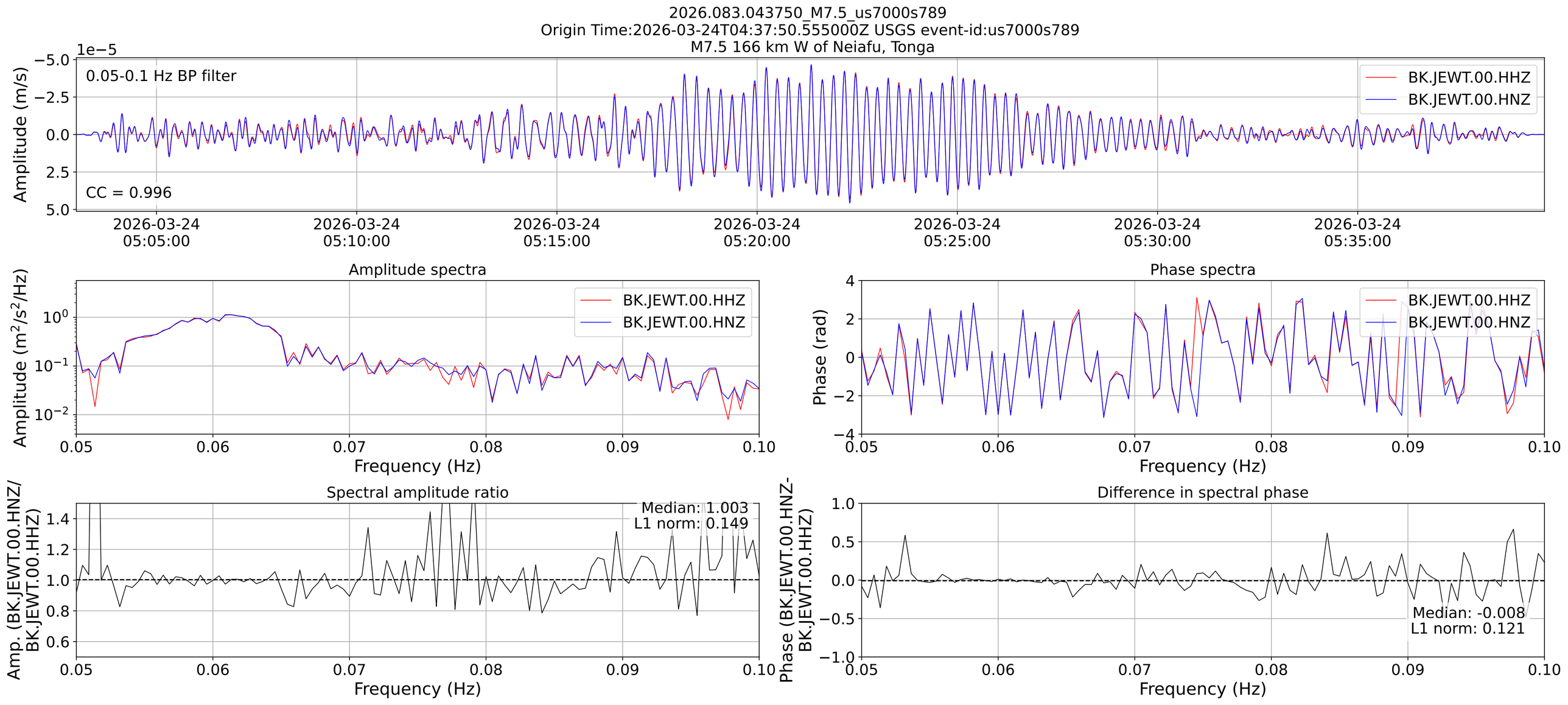

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.JEPS.00.HHE
BK.JEPS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNE/ BK.JEPS.00.HHE)
Median: 1.002
L1 norm: 0.065
Difference in spectral phase
Phase (BK.JEPS.00.HNE- BK.JEPS.00.HHE)
Median: 0.005
L1 norm: 0.057

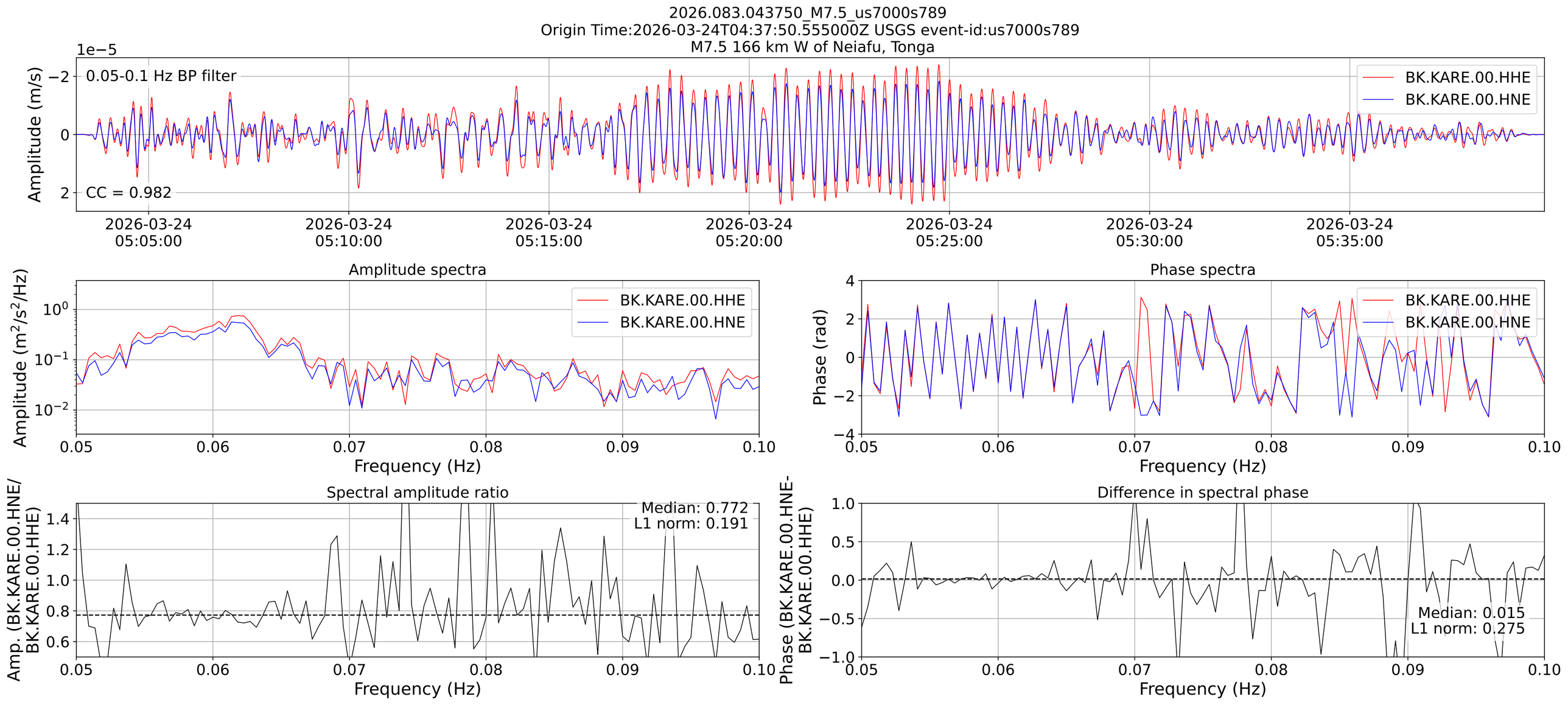

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.996
BK.JEPS.00.HHN
BK.JEPS.00.HNN
Amplitude (m/s)
−0.00010
−0.00005
0.00000
0.00005
0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNN/ BK.JEPS.00.HHN)
Median: 1.004
L1 norm: 0.070
Difference in spectral phase
Phase (BK.JEPS.00.HNN- BK.JEPS.00.HHN)
Median: -0.001
L1 norm: 0.056

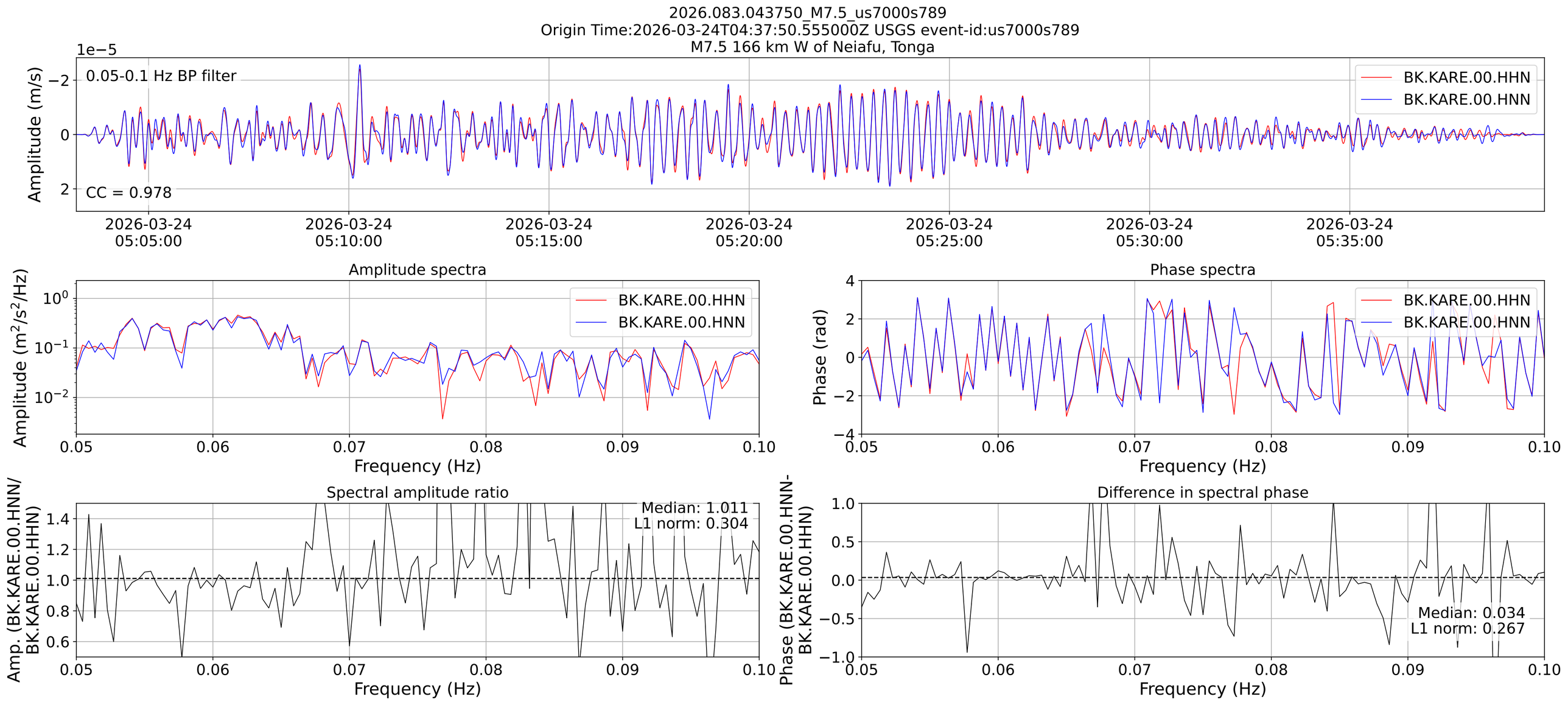

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.JEPS.00.HHZ
BK.JEPS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEPS.00.HNZ/ BK.JEPS.00.HHZ)
Median: 1.007
L1 norm: 0.097
Difference in spectral phase
Phase (BK.JEPS.00.HNZ- BK.JEPS.00.HHZ)
Median: -0.013
L1 norm: 0.107

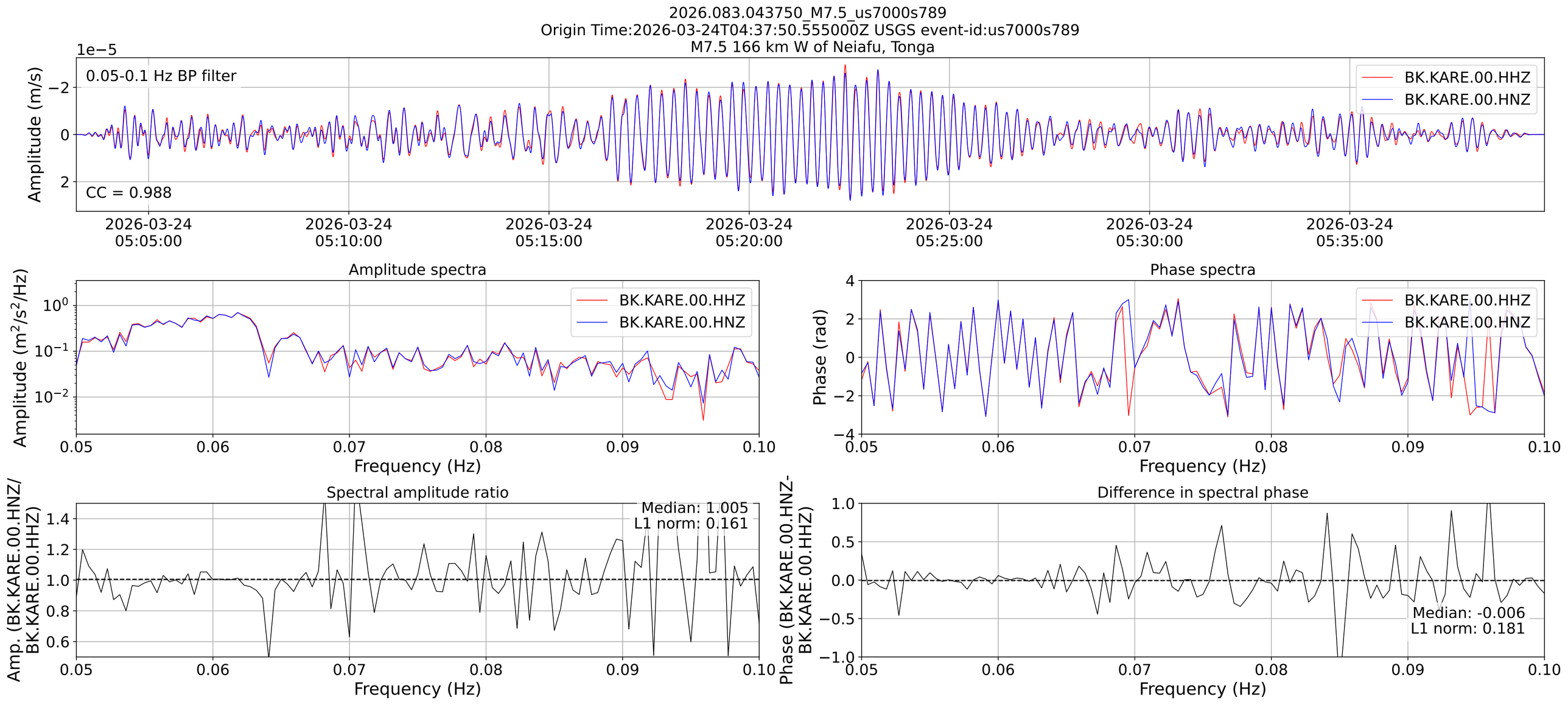

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.JEWT.00.HHE
BK.JEWT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNE/ BK.JEWT.00.HHE)
Median: 0.995
L1 norm: 0.130
Difference in spectral phase
Phase (BK.JEWT.00.HNE- BK.JEWT.00.HHE)
Median: -0.017
L1 norm: 0.140

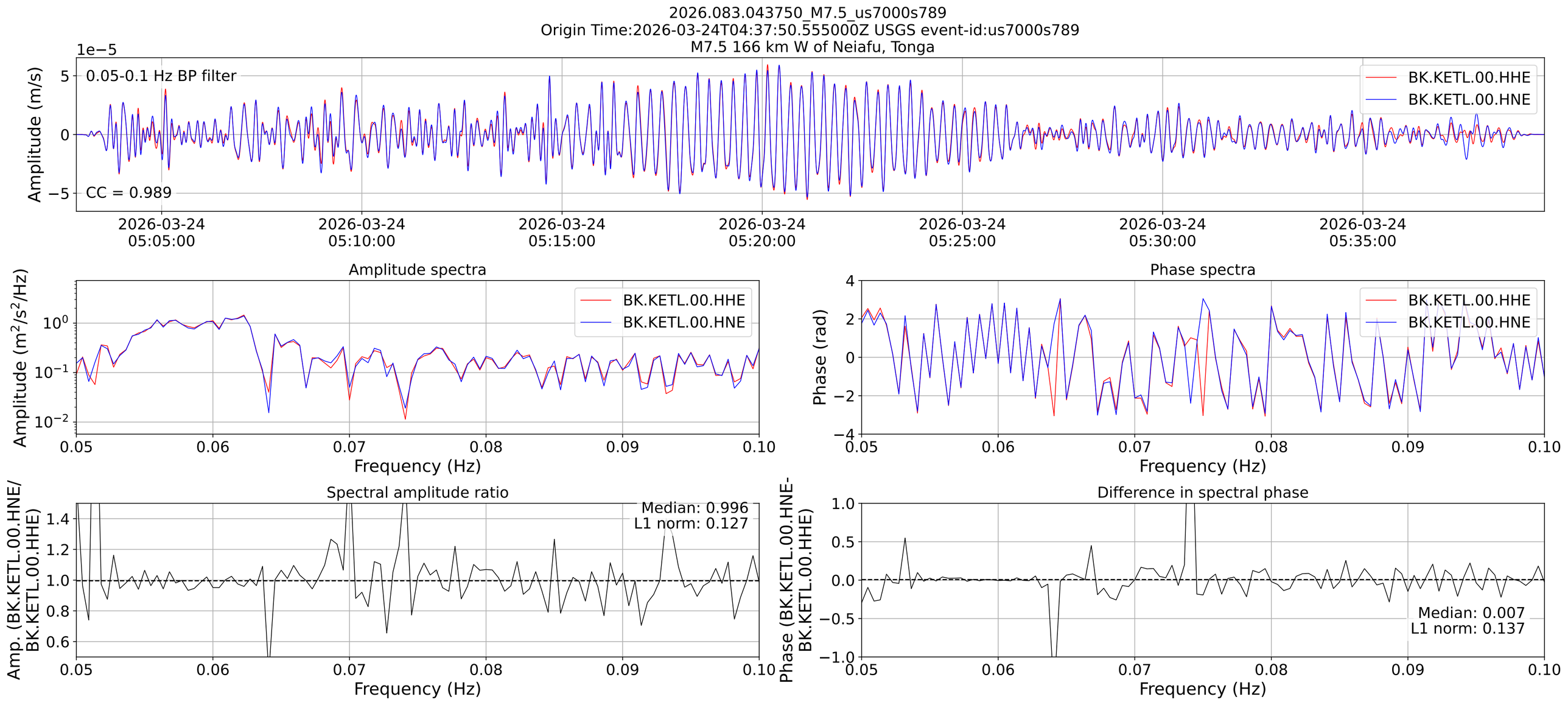

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.JEWT.00.HHN
BK.JEWT.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNN/ BK.JEWT.00.HHN)
Median: 1.006
L1 norm: 0.106
Difference in spectral phase
Phase (BK.JEWT.00.HNN- BK.JEWT.00.HHN)
Median: -0.012
L1 norm: 0.127

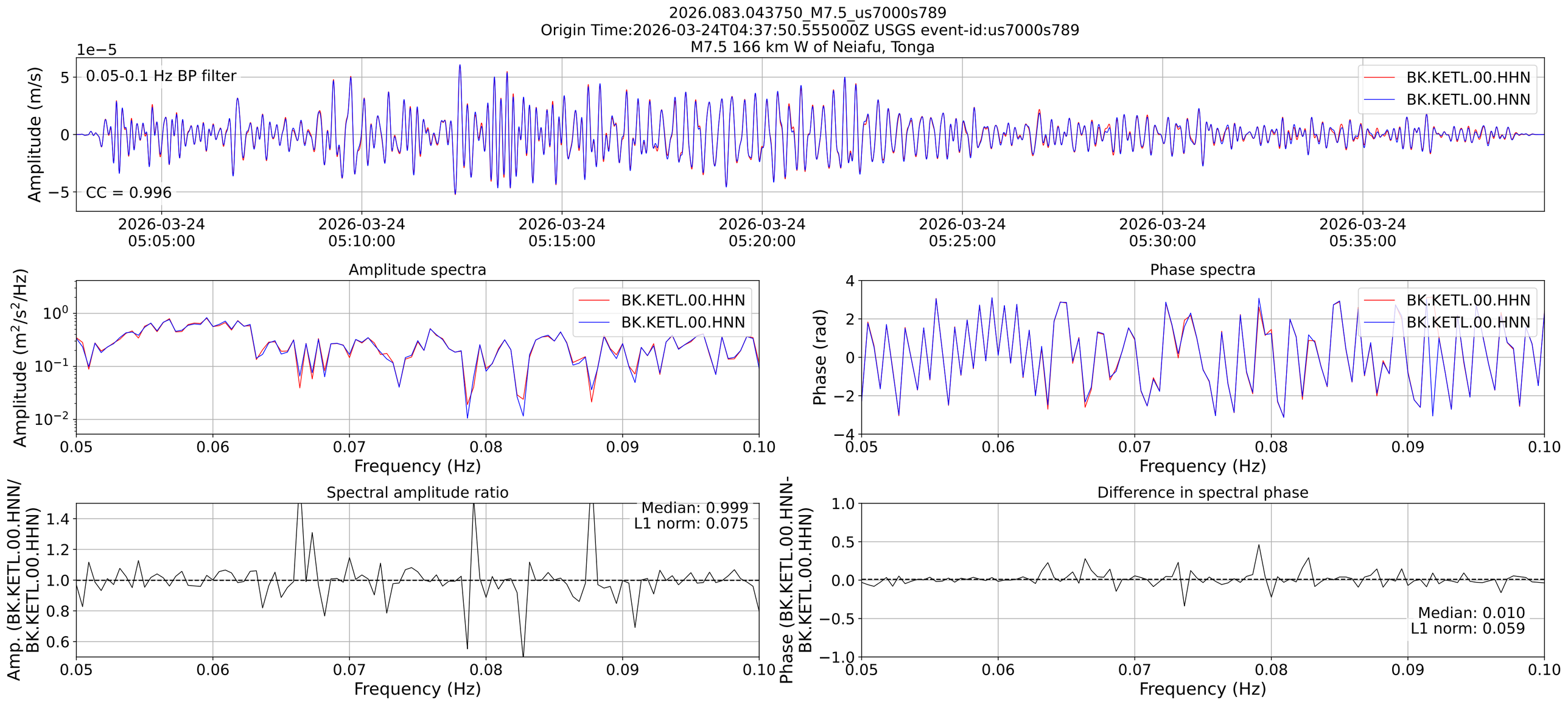

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.JEWT.00.HHZ
BK.JEWT.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.JEWT.00.HNZ/ BK.JEWT.00.HHZ)
Median: 1.003
L1 norm: 0.149
Difference in spectral phase
Phase (BK.JEWT.00.HNZ- BK.JEWT.00.HHZ)
Median: -0.008
L1 norm: 0.121

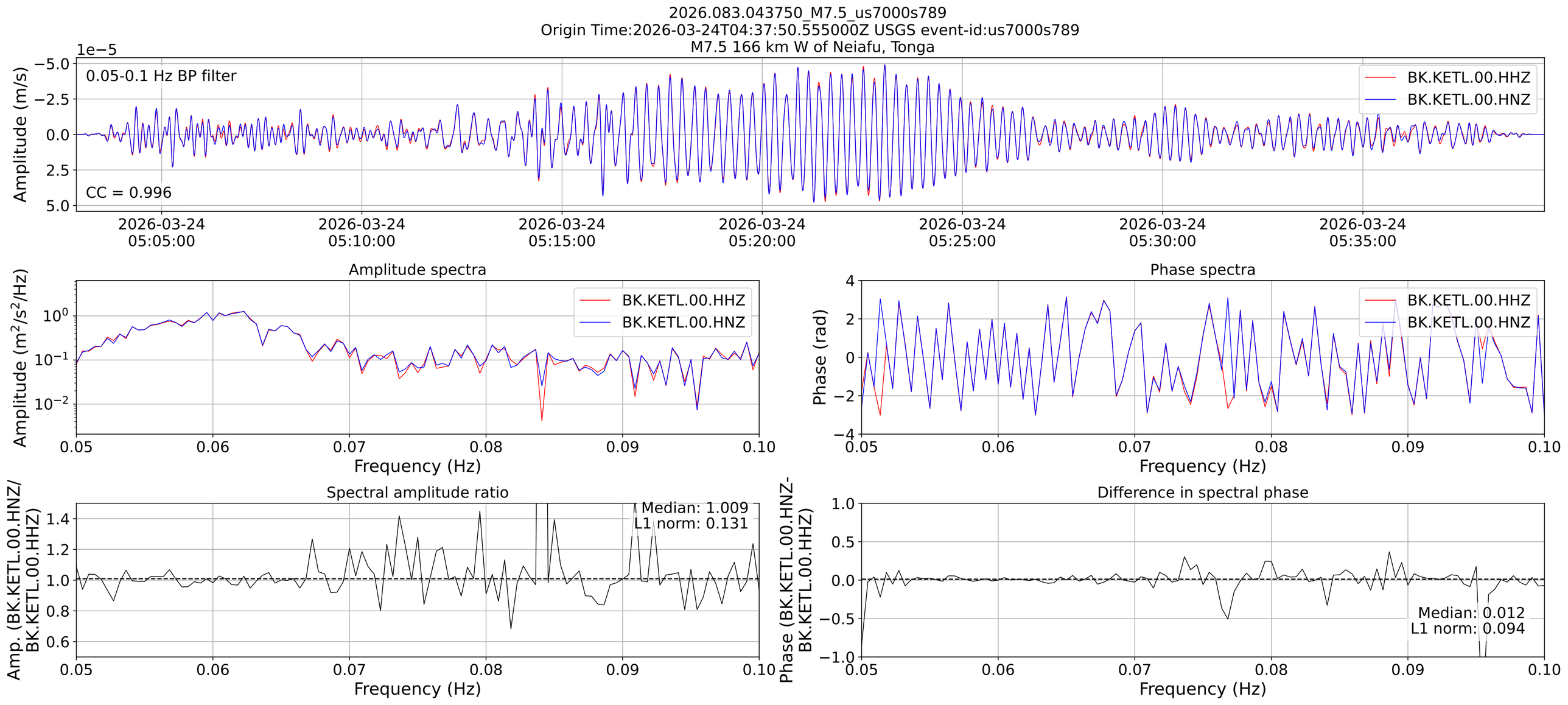

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.982
BK.KARE.00.HHE
BK.KARE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNE/ BK.KARE.00.HHE)
Median: 0.772
L1 norm: 0.191
Difference in spectral phase
Phase (BK.KARE.00.HNE- BK.KARE.00.HHE)
Median: 0.015
L1 norm: 0.275

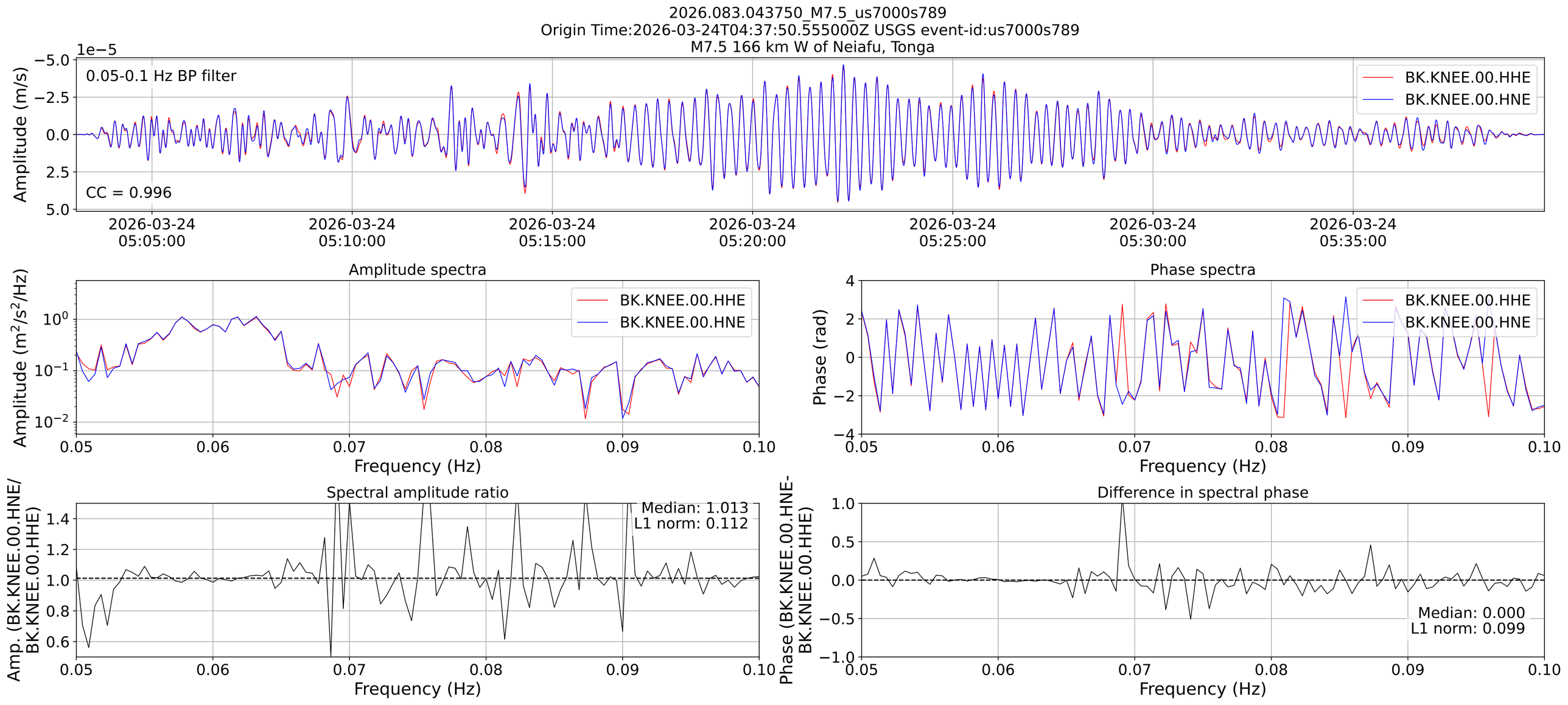

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.KARE.00.HHN
BK.KARE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNN/ BK.KARE.00.HHN)
Median: 1.011
L1 norm: 0.304
Difference in spectral phase
Phase (BK.KARE.00.HNN- BK.KARE.00.HHN)
Median: 0.034
L1 norm: 0.267

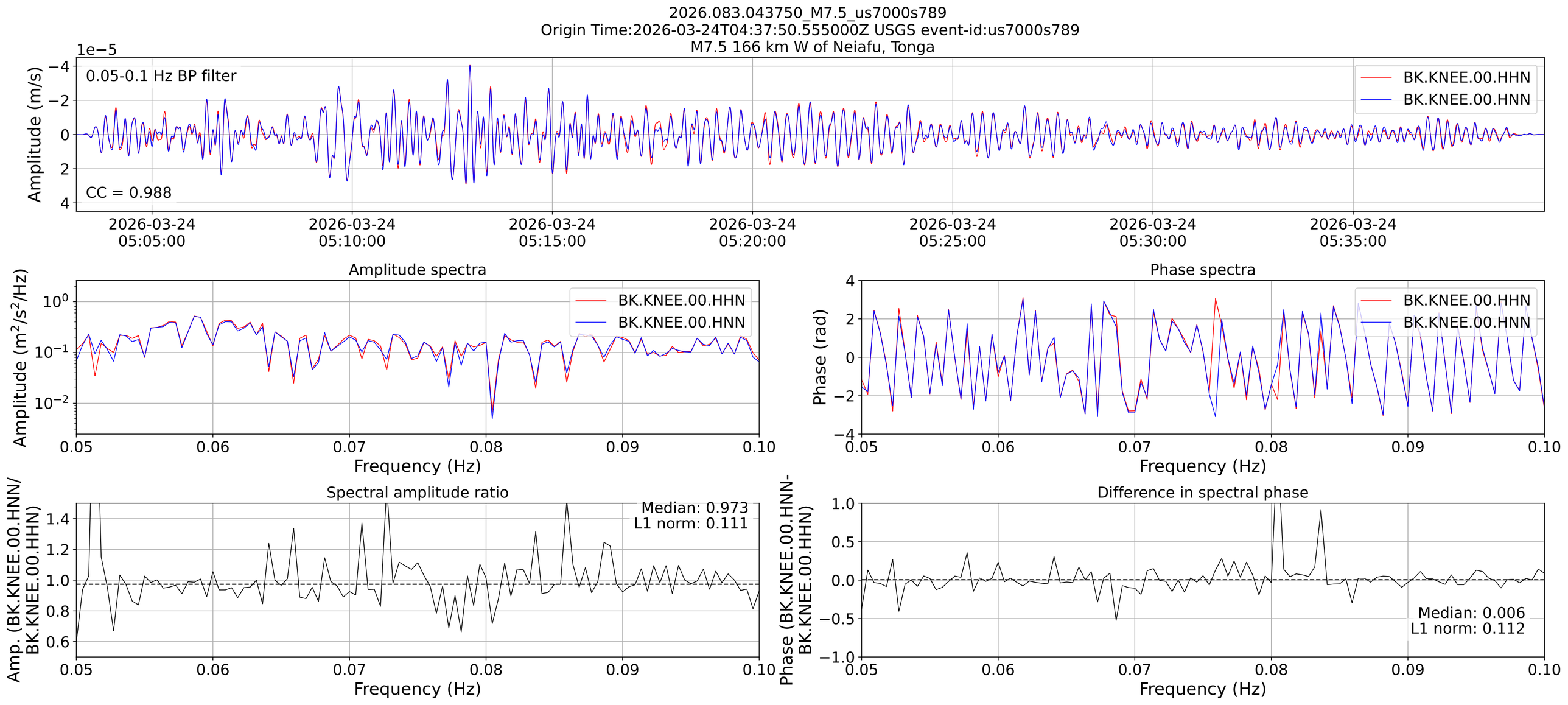

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.KARE.00.HHZ
BK.KARE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KARE.00.HNZ/ BK.KARE.00.HHZ)
Median: 1.005
L1 norm: 0.161
Difference in spectral phase
Phase (BK.KARE.00.HNZ-BK.KARE.00.HHZ)
Median: -0.006
L1 norm: 0.181

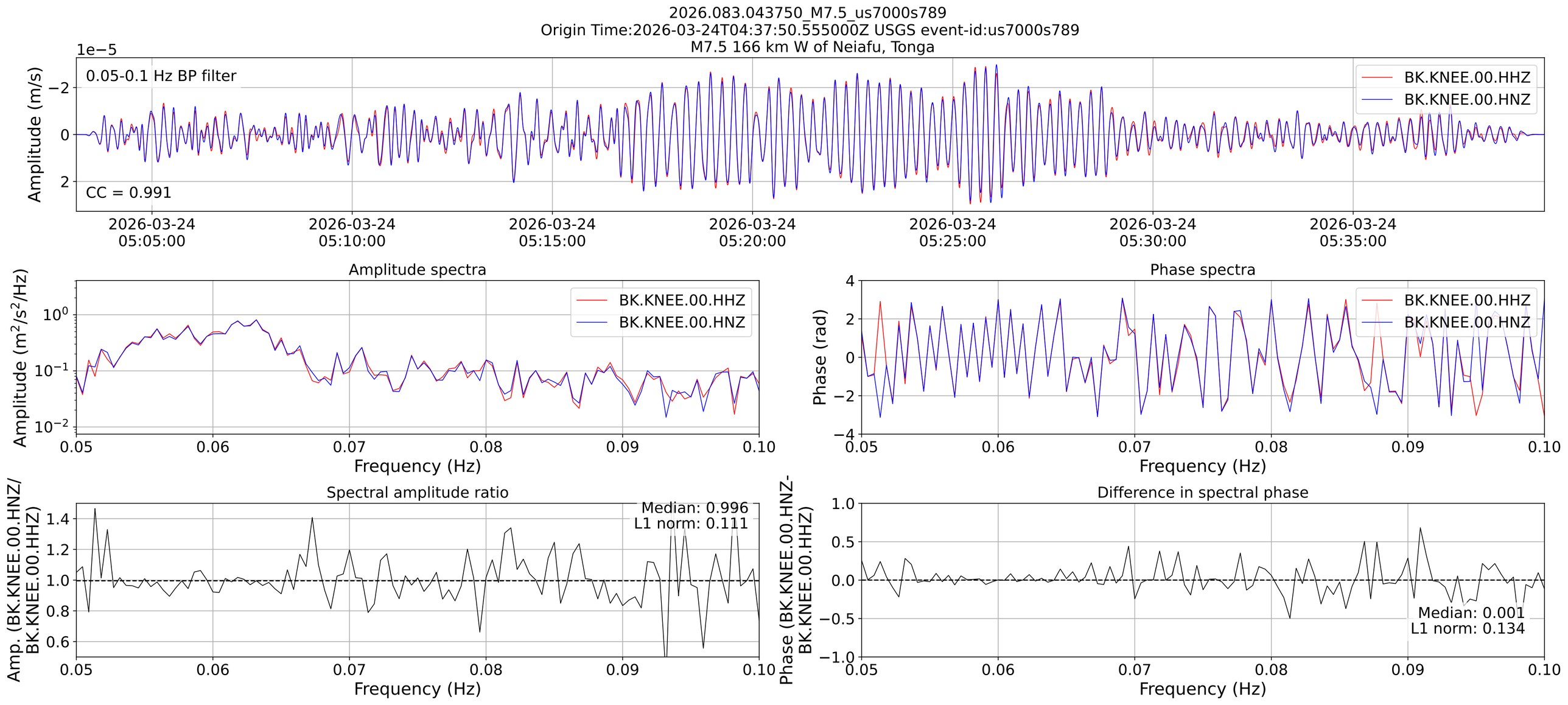

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.KETL.00.HHE
BK.KETL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNE/ BK.KETL.00.HHE)
Median: 0.996
L1 norm: 0.127
Difference in spectral phase
Phase (BK.KETL.00.HNE- BK.KETL.00.HHE)
Median: 0.007
L1 norm: 0.137

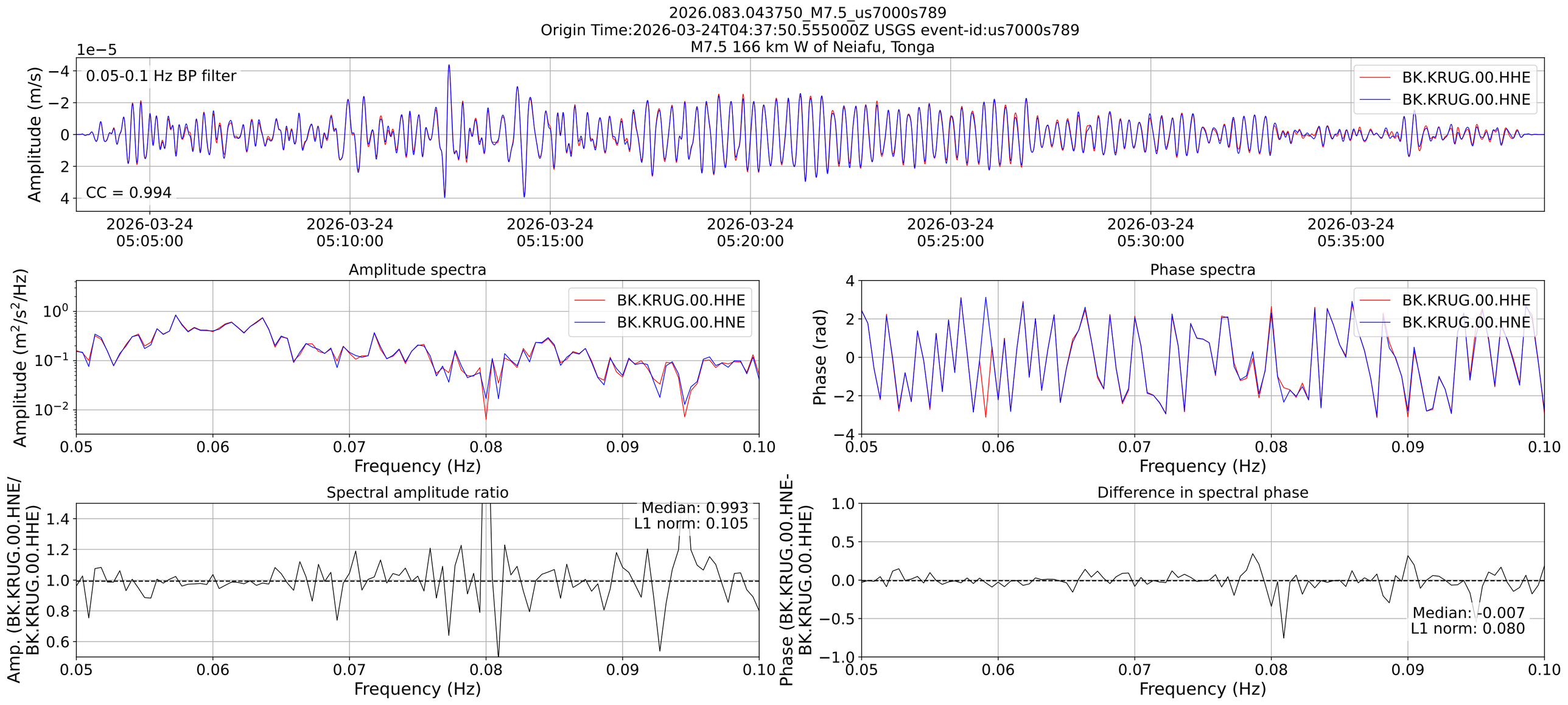

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.KETL.00.HHN
BK.KETL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNN/ BK.KETL.00.HHN)
Median: 0.999
L1 norm: 0.075
Difference in spectral phase
Phase (BK.KETL.00.HNN- BK.KETL.00.HHN)
Median: 0.010
L1 norm: 0.059

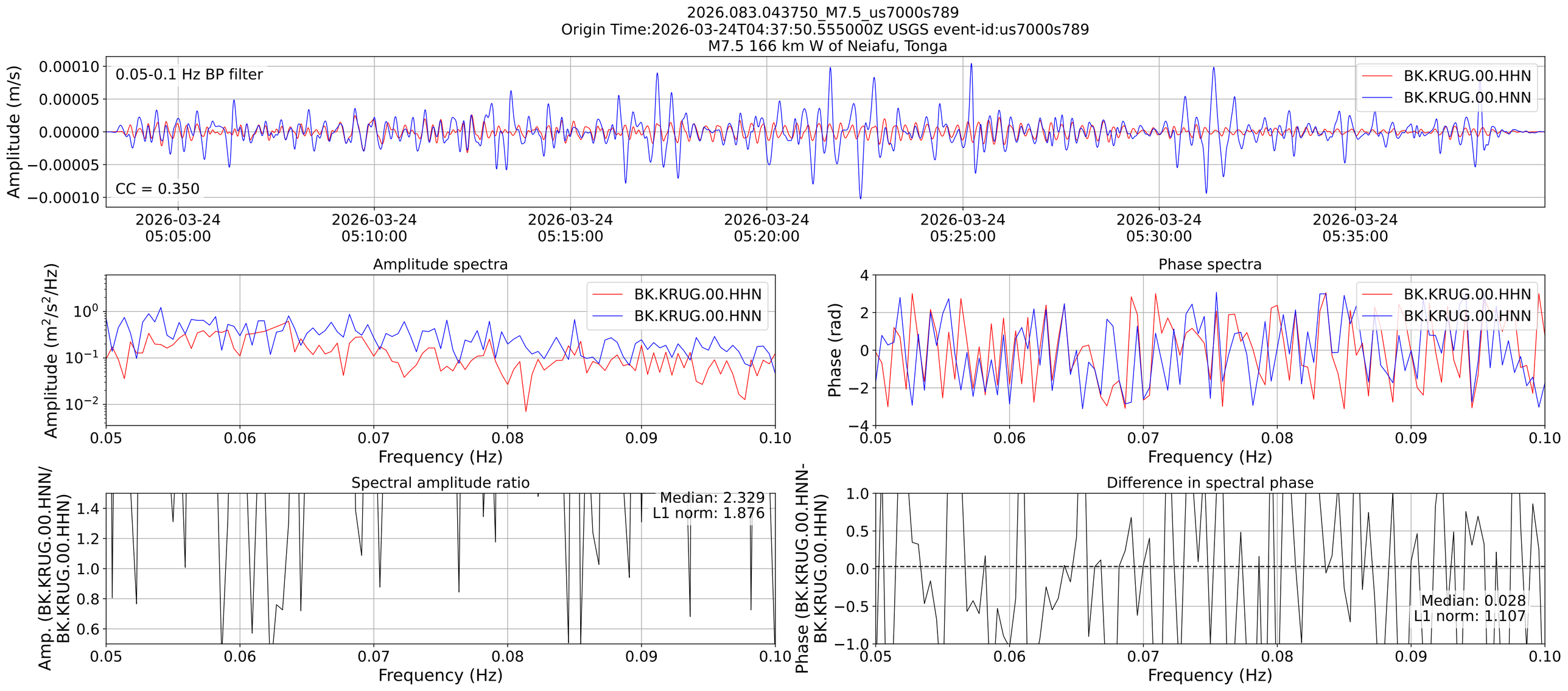

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.KETL.00.HHZ
BK.KETL.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KETL.00.HNZ/ BK.KETL.00.HHZ)
Median: 1.009
L1 norm: 0.131
Difference in spectral phase
Phase (BK.KETL.00.HNZ- BK.KETL.00.HHZ)
Median: 0.012
L1 norm: 0.094

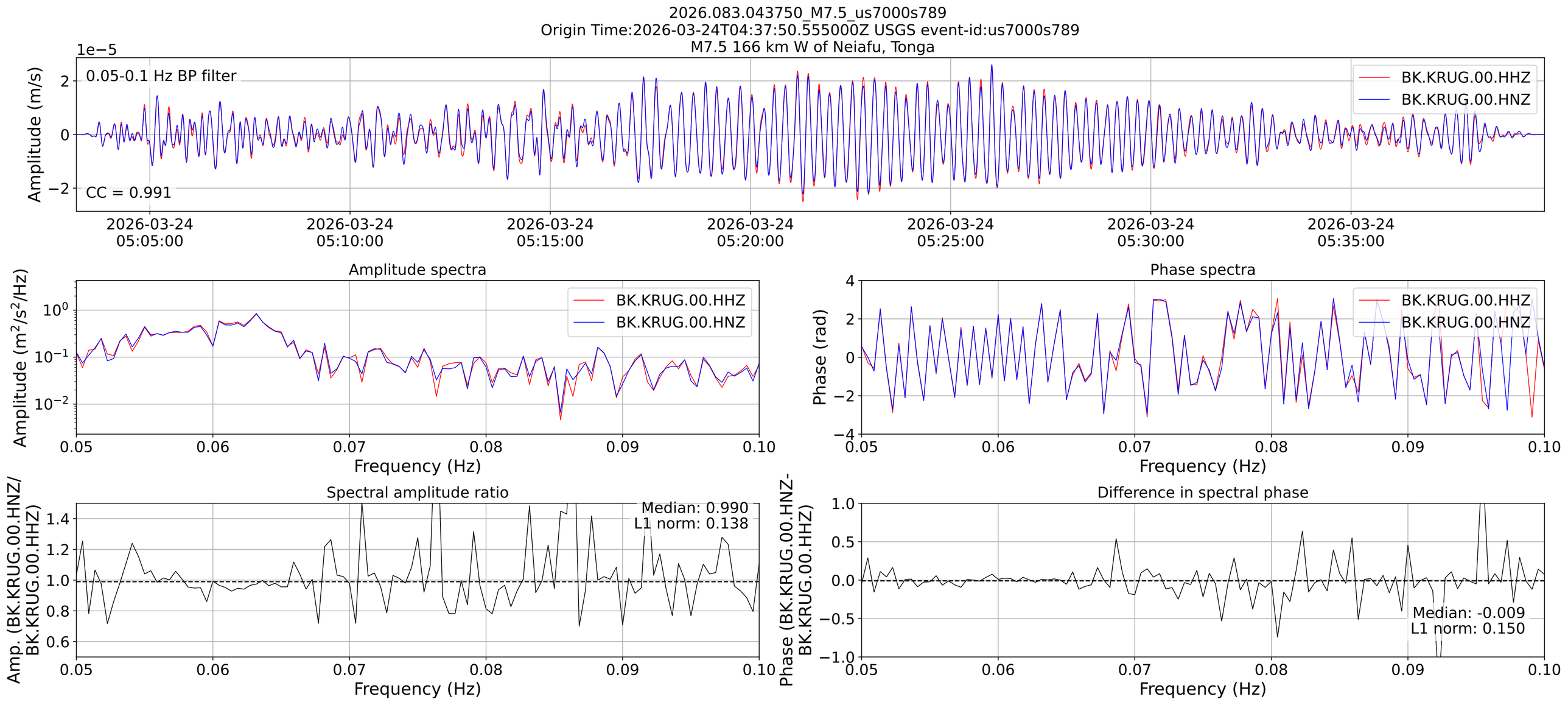

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.KNEE.00.HHE
BK.KNEE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNE/ BK.KNEE.00.HHE)
Median: 1.013
L1 norm: 0.112
Difference in spectral phase
Phase (BK.KNEE.00.HNE- BK.KNEE.00.HHE)
Median: 0.000
L1 norm: 0.099

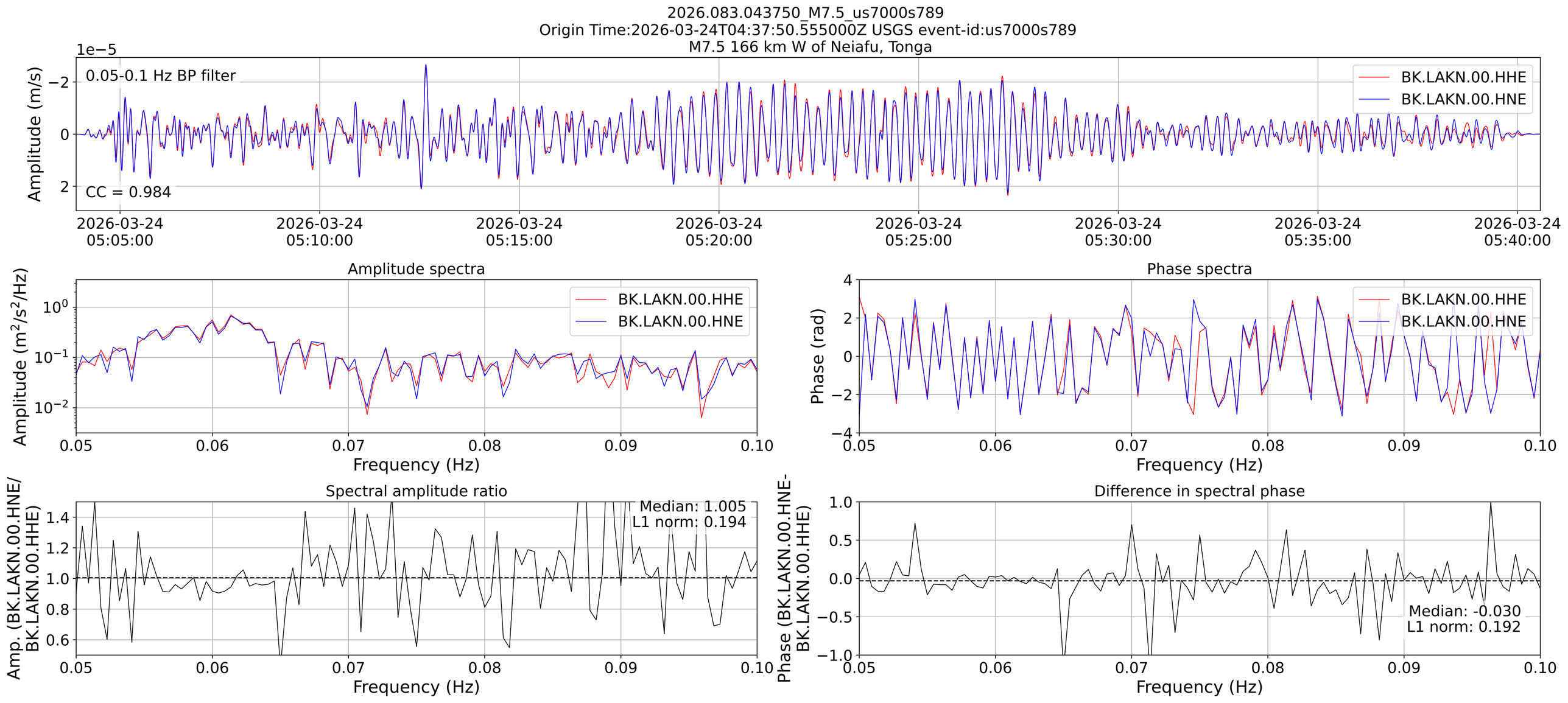

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.988
BK.KNEE.00.HHN
BK.KNEE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNN/ BK.KNEE.00.HHN)
Median: 0.973
L1 norm: 0.111
Difference in spectral phase
Phase (BK.KNEE.00.HNN- BK.KNEE.00.HHN)
Median: 0.006
L1 norm: 0.112

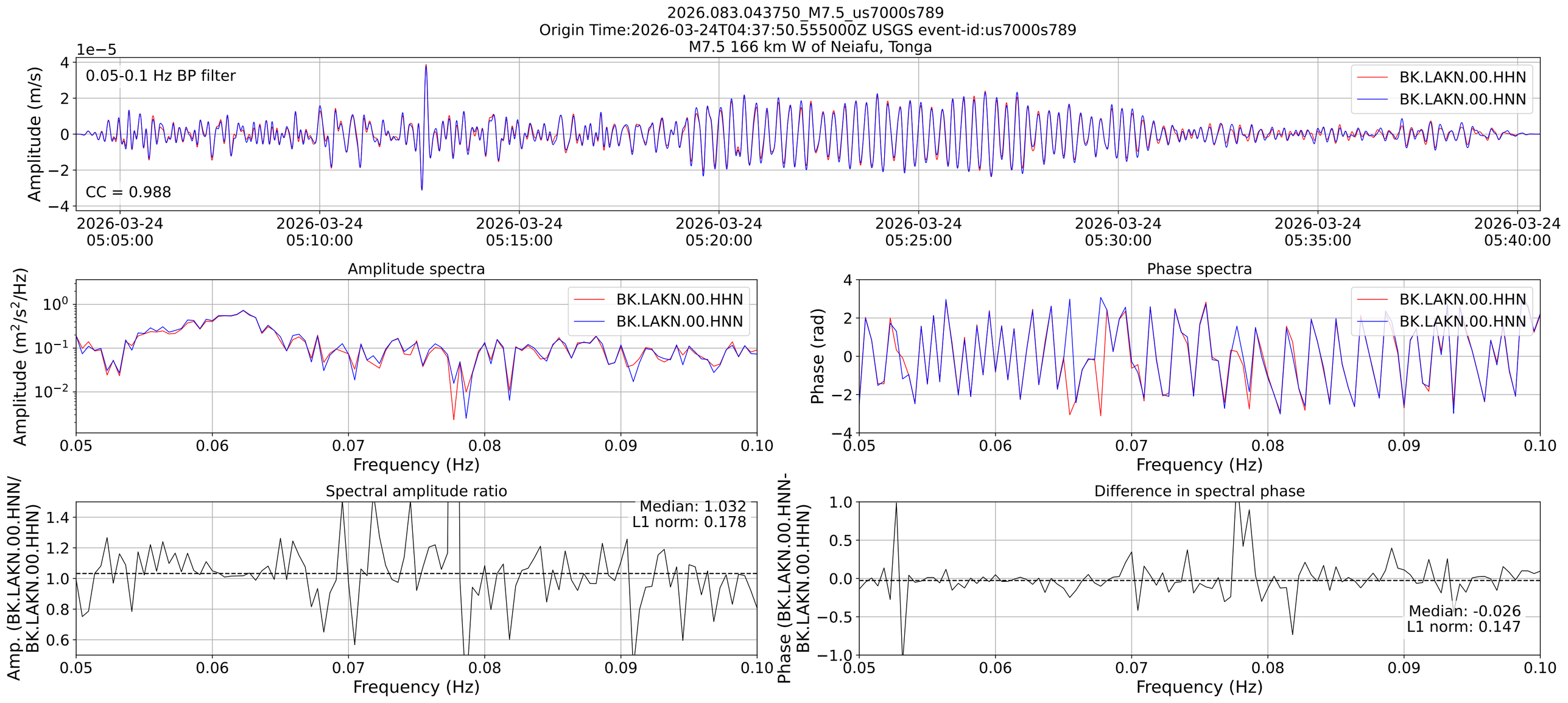

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.KNEE.00.HHZ
BK.KNEE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KNEE.00.HNZ/ BK.KNEE.00.HHZ)
Median: 0.996
L1 norm: 0.111
Difference in spectral phase
Phase (BK.KNEE.00.HNZ- BK.KNEE.00.HHZ)
Median: 0.001
L1 norm: 0.134

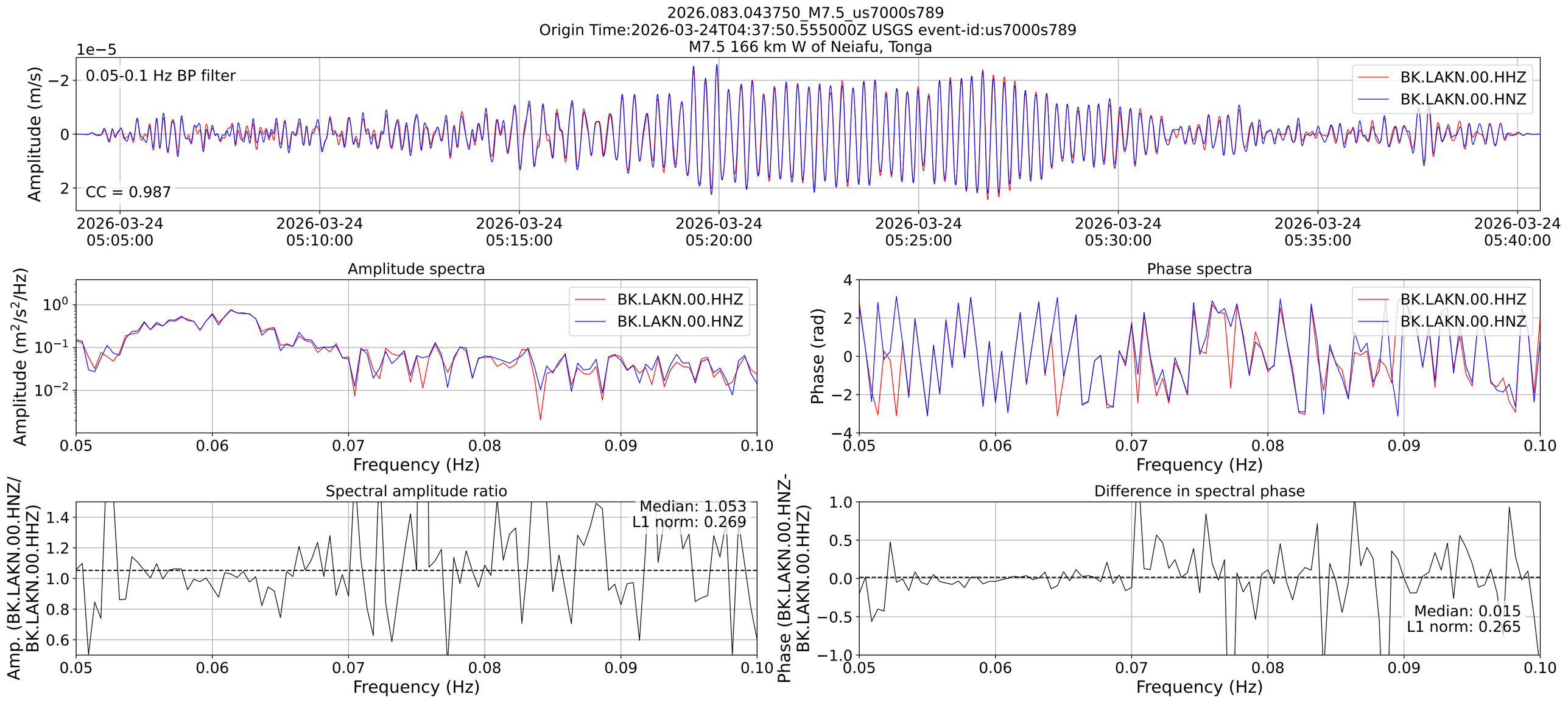

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.KRUG.00.HHE
BK.KRUG.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNE/ BK.KRUG.00.HHE)
Median: 0.993
L1 norm: 0.105
Difference in spectral phase
Phase (BK.KRUG.00.HNE- BK.KRUG.00.HHE)
Median: -0.007
L1 norm: 0.080

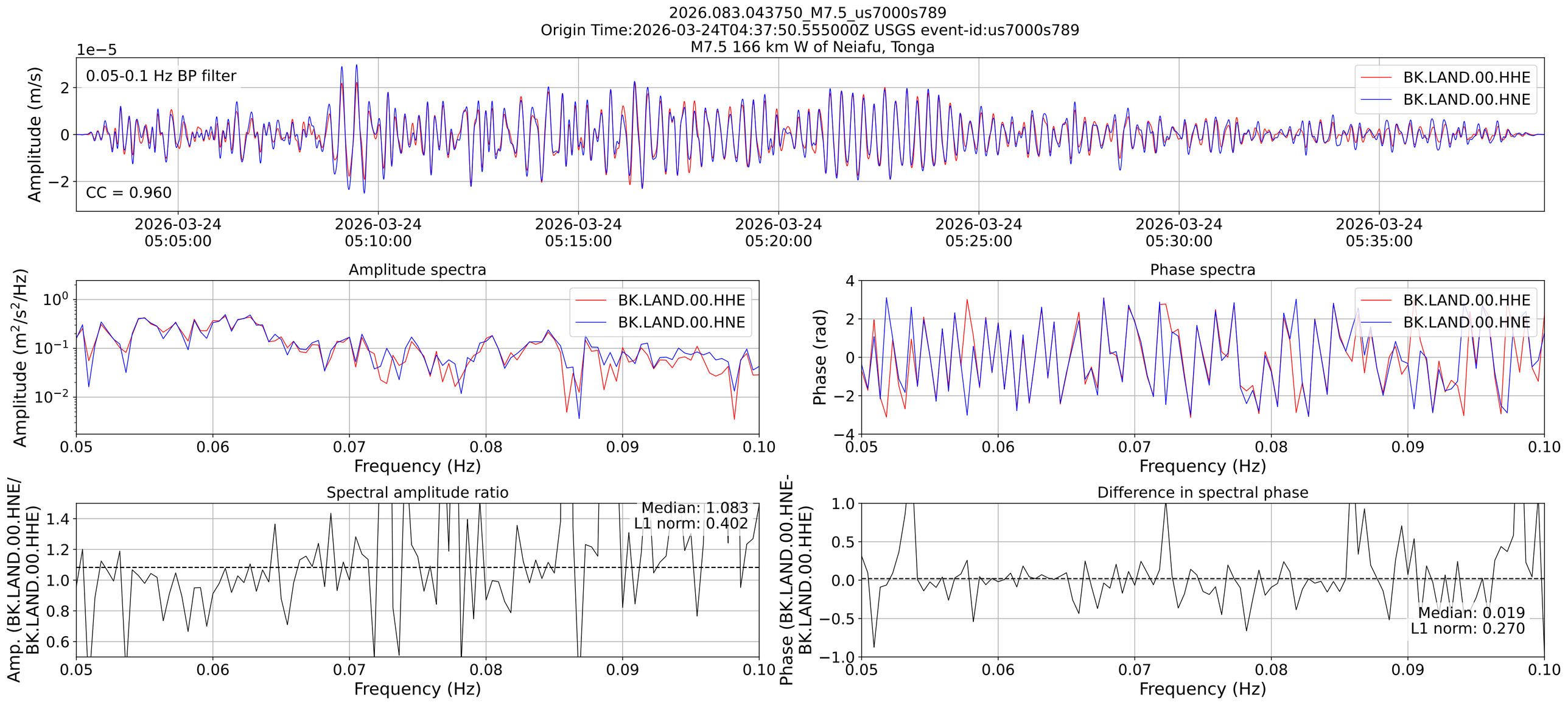

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.350
BK.KRUG.00.HHN
BK.KRUG.00.HNN
Amplitude (m/s)
0.00010
0.00005
0.00000
−0.00005
−0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNN/ BK.KRUG.00.HHN)
Median: 2.329
L1 norm: 1.876
Difference in spectral phase
Phase (BK.KRUG.00.HNN- BK.KRUG.00.HHN)
Median: 0.028
L1 norm: 1.107

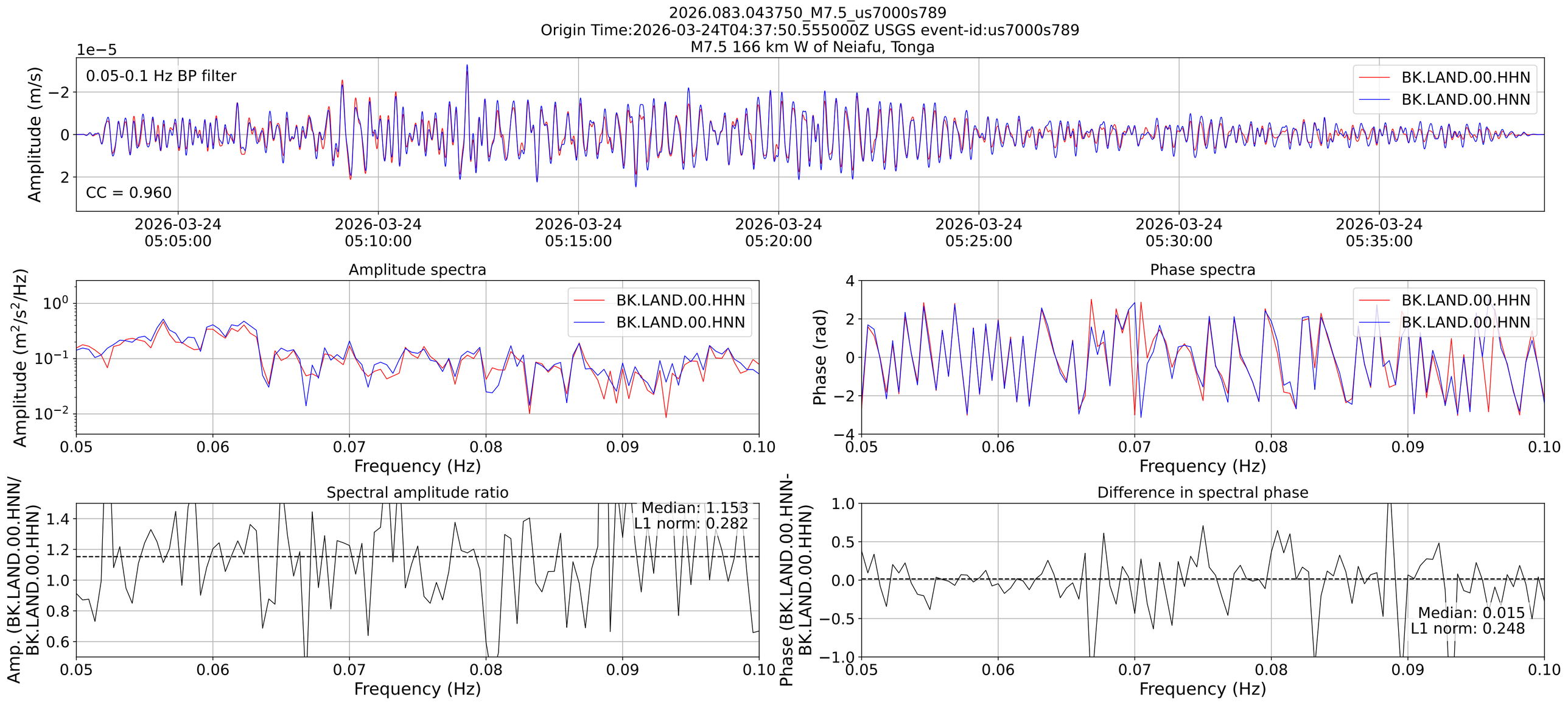

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.KRUG.00.HHZ
BK.KRUG.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.KRUG.00.HNZ/ BK.KRUG.00.HHZ)
Median: 0.990
L1 norm: 0.138
Difference in spectral phase
Phase (BK.KRUG.00.HNZ- BK.KRUG.00.HHZ)
Median: -0.009
L1 norm: 0.150

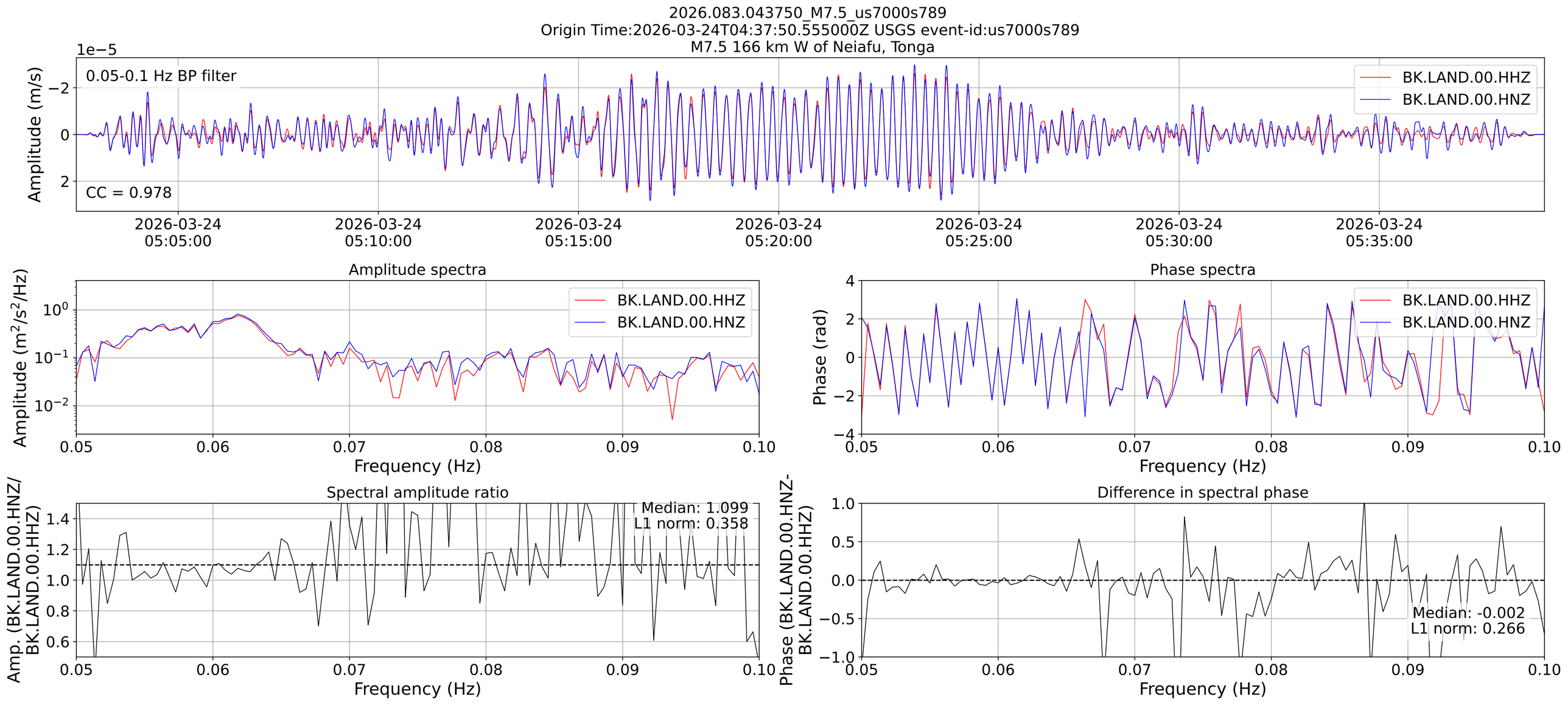

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.LAKN.00.HHE
BK.LAKN.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNE/ BK.LAKN.00.HHE)
Median: 1.005
L1 norm: 0.194
Difference in spectral phase
Phase (BK.LAKN.00.HNE- BK.LAKN.00.HHE)
Median: -0.030
L1 norm: 0.192

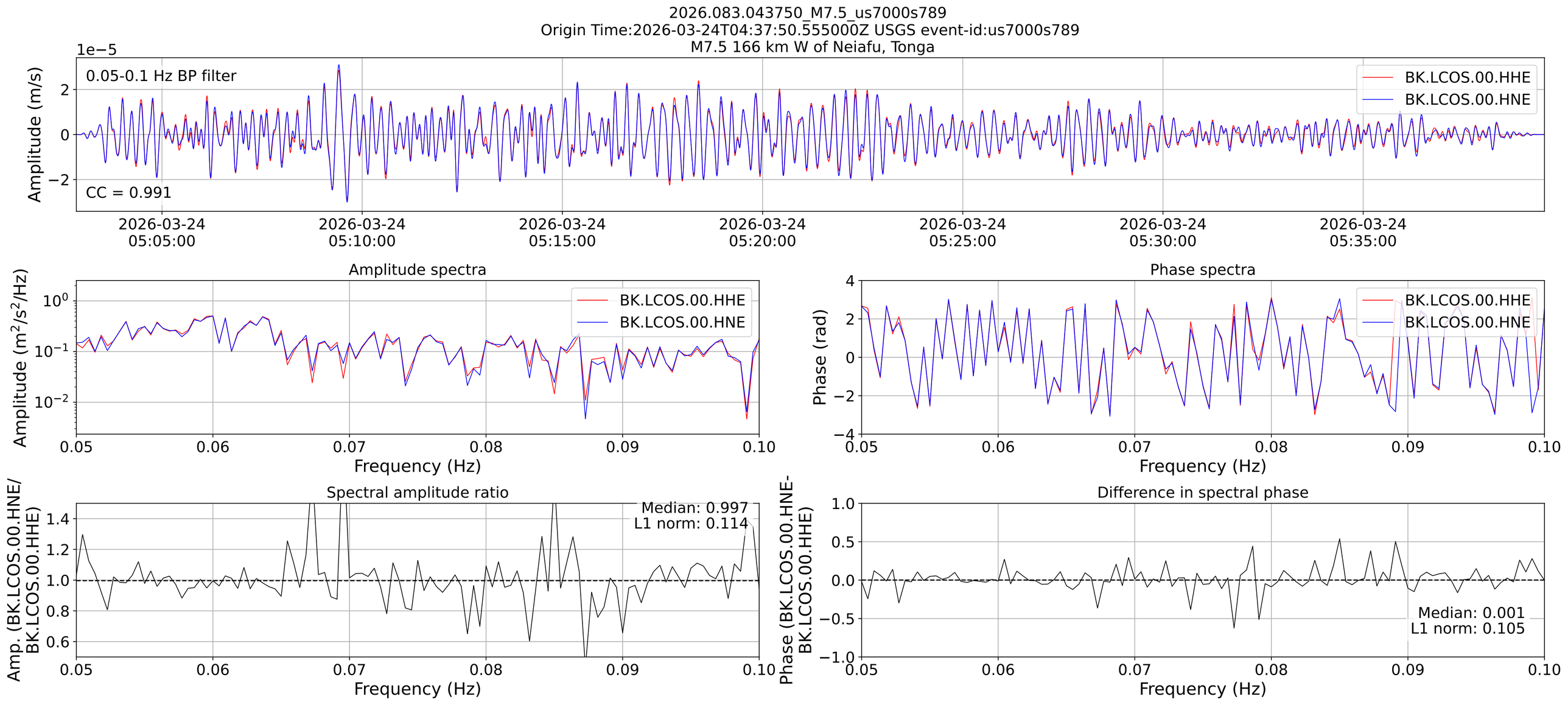

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.LAKN.00.HHN
BK.LAKN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNN/ BK.LAKN.00.HHN)
Median: 1.032
L1 norm: 0.178
Difference in spectral phase
Phase (BK.LAKN.00.HNN- BK.LAKN.00.HHN)
Median: -0.026
L1 norm: 0.147

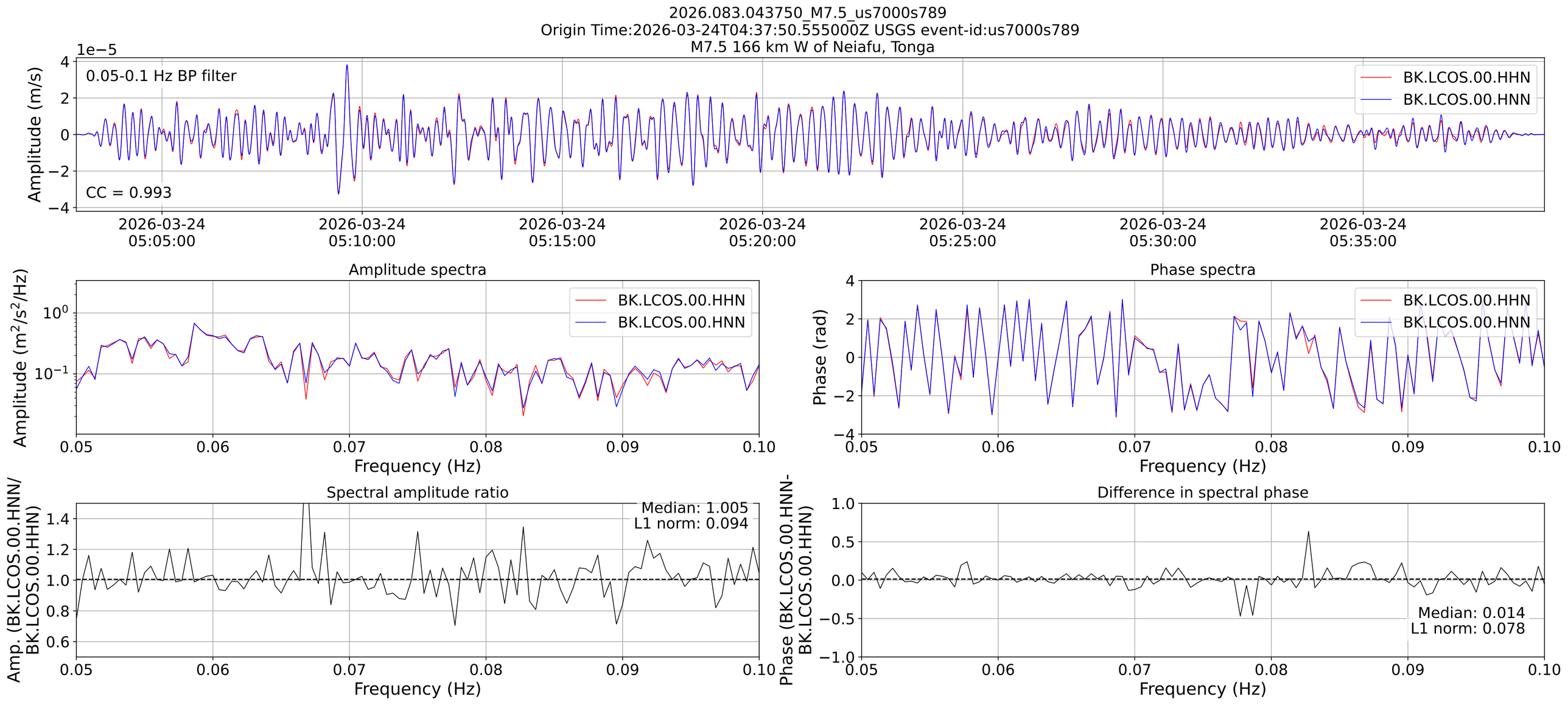

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.LAKN.00.HHZ
BK.LAKN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAKN.00.HNZ/ BK.LAKN.00.HHZ)
Median: 1.053
L1 norm: 0.269
Difference in spectral phase
Phase (BK.LAKN.00.HNZ- BK.LAKN.00.HHZ)
Median: 0.015
L1 norm: 0.265

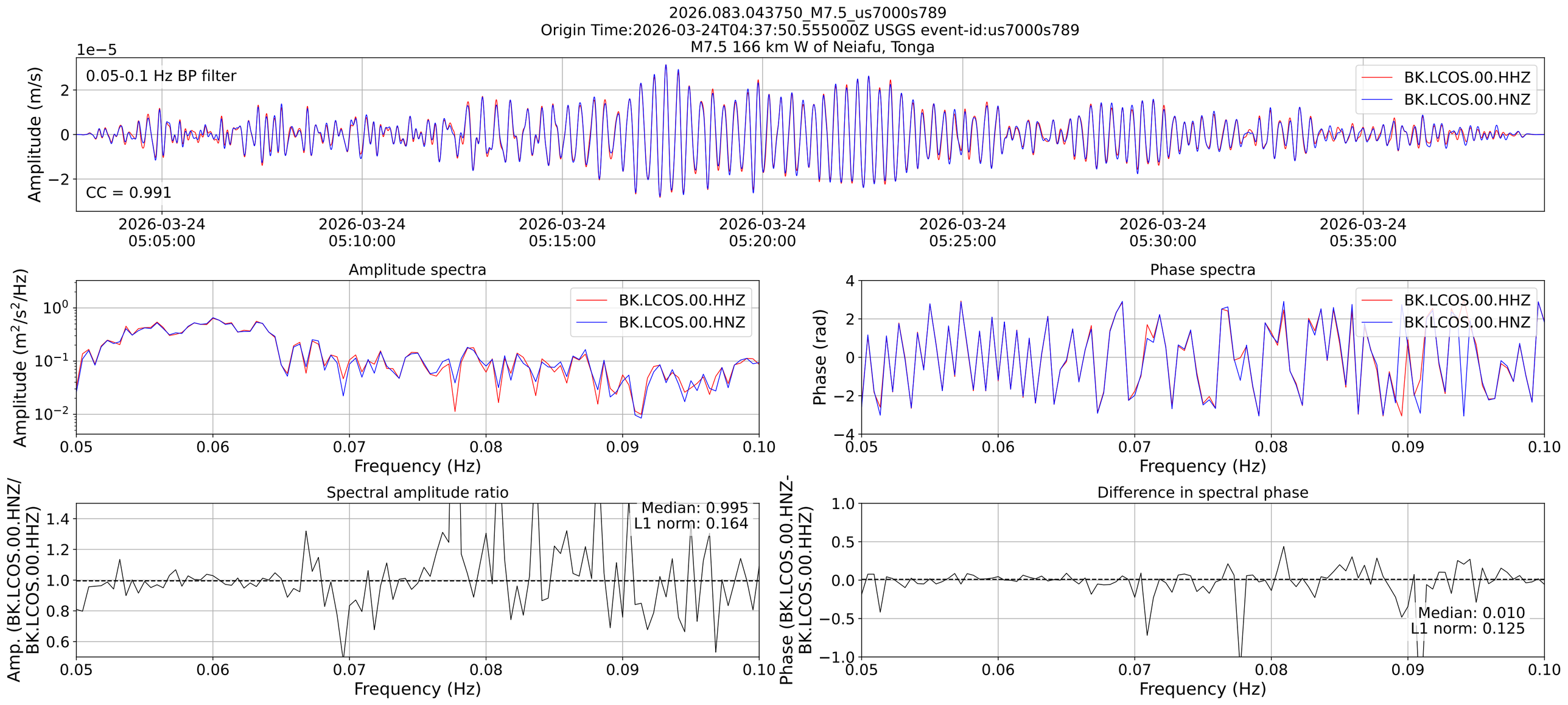

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.960
Amplitude (m/s)
BK.LAND.00.HHE
BK.LAND.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNE/ BK.LAND.00.HHE)
Median: 1.083
L1 norm: 0.402
Difference in spectral phase
Phase (BK.LAND.00.HNE- BK.LAND.00.HHE)
Median: 0.019
L1 norm: 0.270

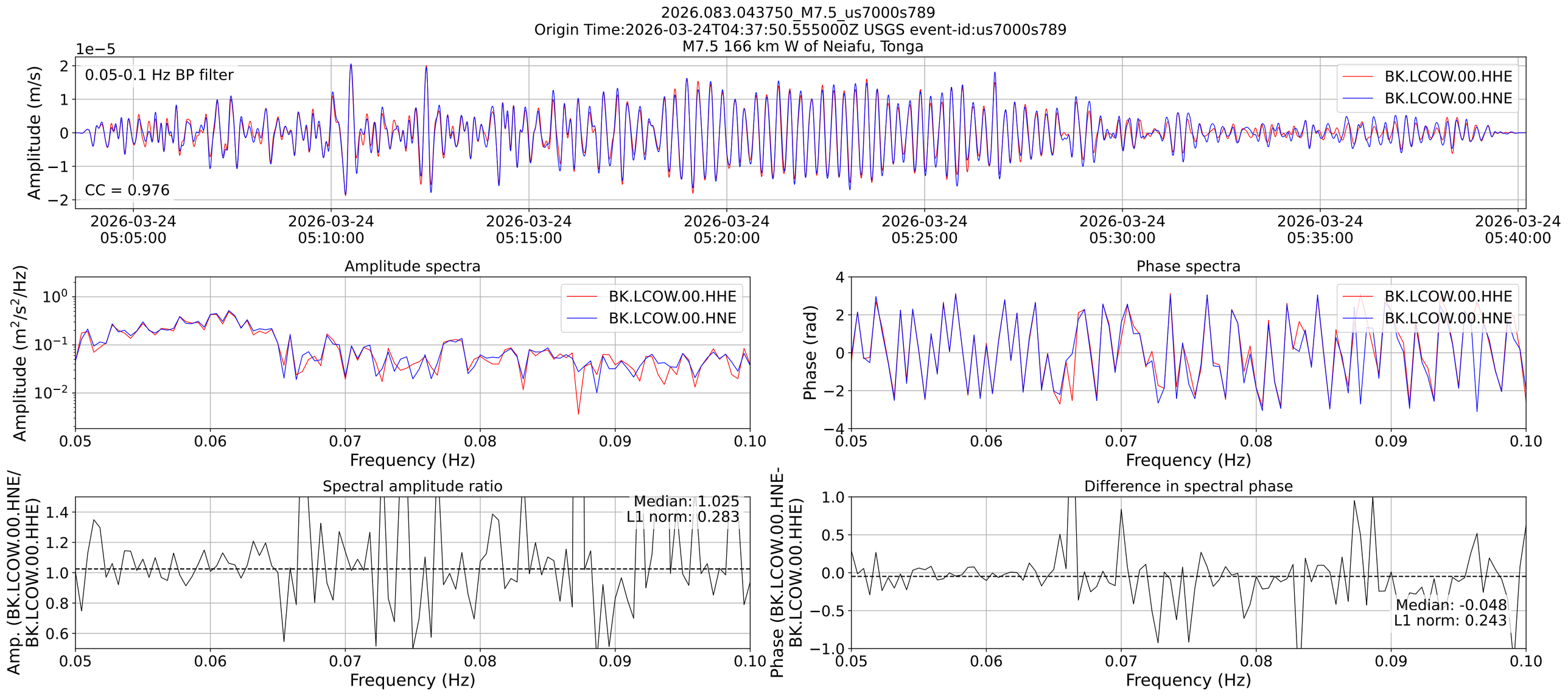

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.960
BK.LAND.00.HHN
BK.LAND.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNN/ BK.LAND.00.HHN)
Median: 1.153
L1 norm: 0.282
Difference in spectral phase
Phase (BK.LAND.00.HNN-BK.LAND.00.HHN)
Median: 0.015
L1 norm: 0.248

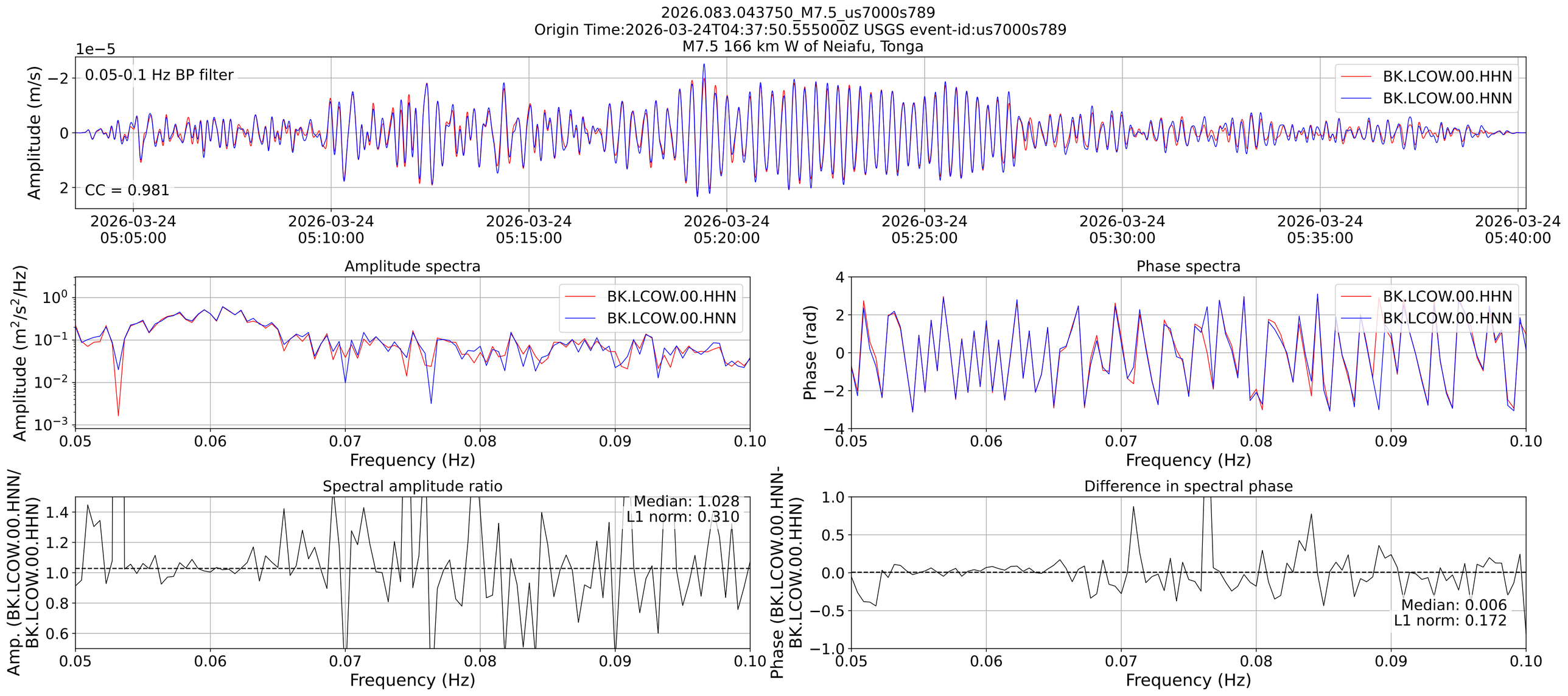

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.LAND.00.HHZ
BK.LAND.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LAND.00.HNZ/ BK.LAND.00.HHZ)
Median: 1.099
L1 norm: 0.358
Difference in spectral phase
Phase (BK.LAND.00.HNZ- BK.LAND.00.HHZ)
Median: -0.002
L1 norm: 0.266

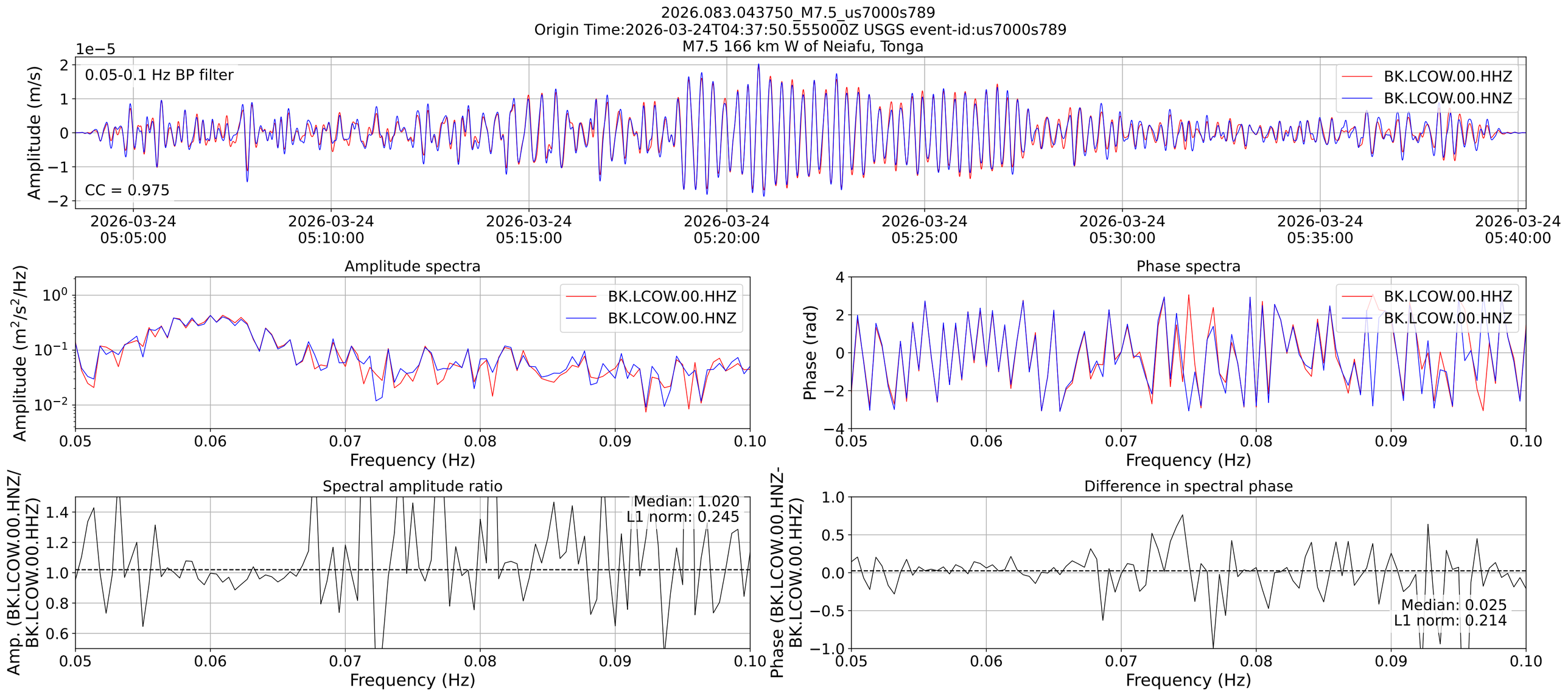

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.LCOS.00.HHE
BK.LCOS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOS.00.HNE/ BK.LCOS.00.HHE)
Median: 0.997
L1 norm: 0.114
Difference in spectral phase
Phase (BK.LCOS.00.HNE- BK.LCOS.00.HHE)
Median: 0.001
L1 norm: 0.105

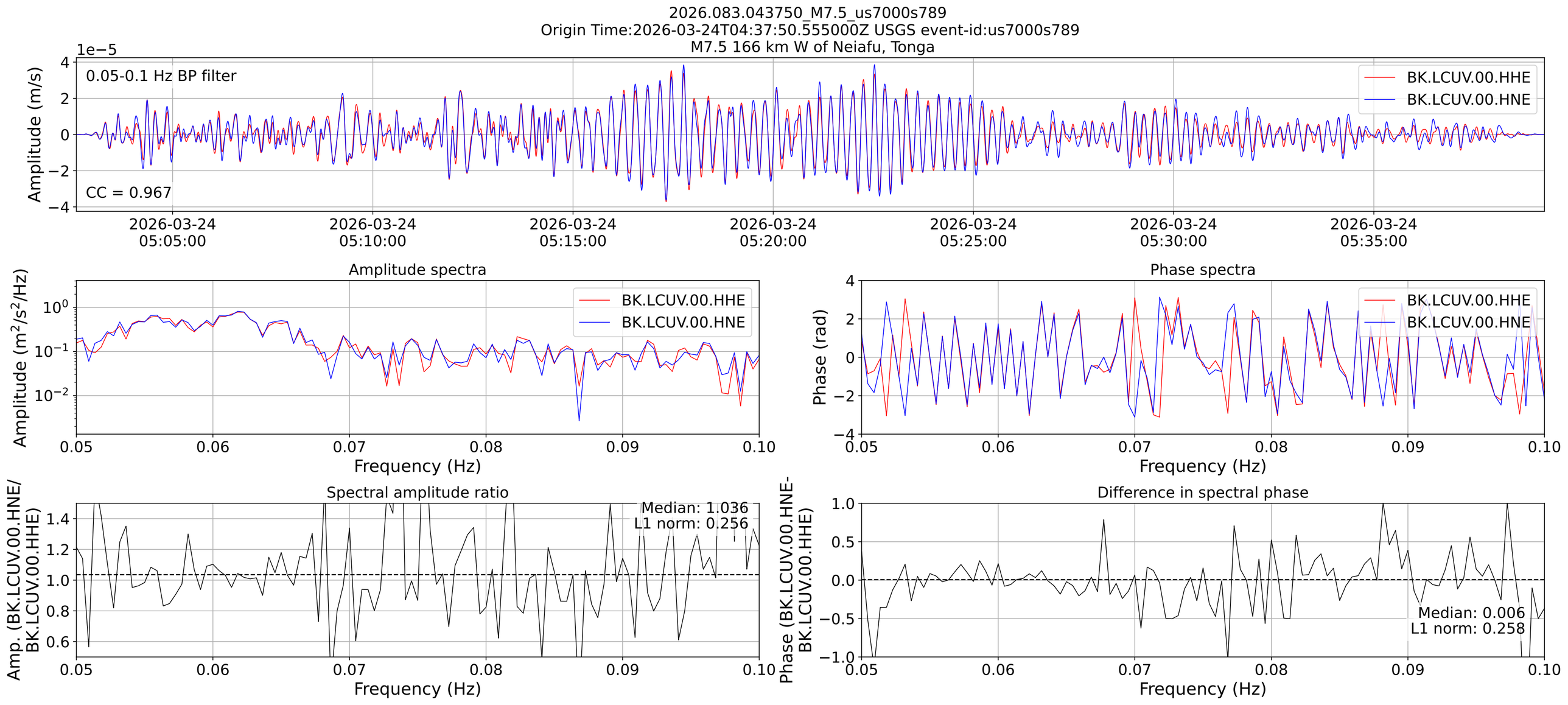

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
BK.LCOS.00.HHN
BK.LCOS.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOS.00.HNN/ BK.LCOS.00.HHN)
Median: 1.005
L1 norm: 0.094
Difference in spectral phase
Phase (BK.LCOS.00.HNN- BK.LCOS.00.HHN)
Median: 0.014
L1 norm: 0.078

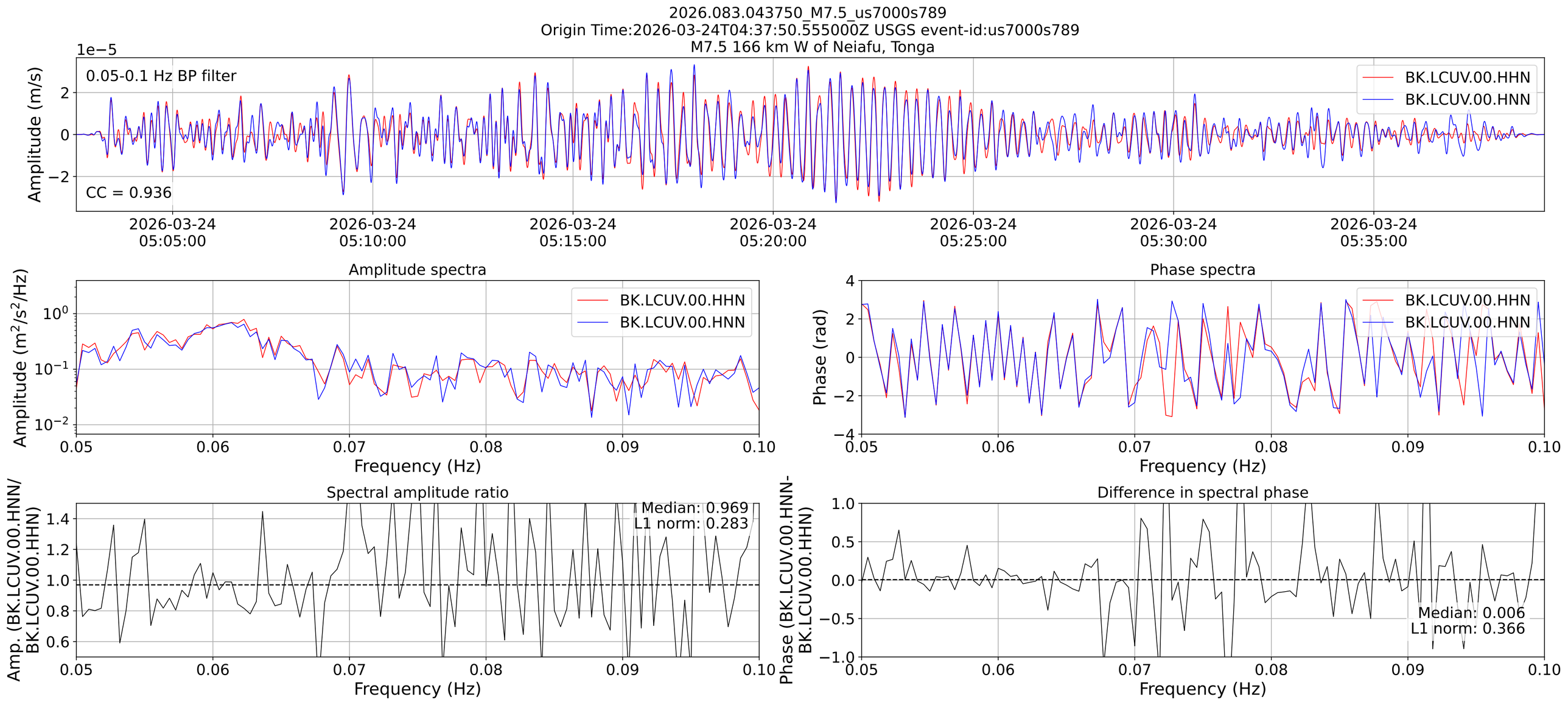

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.LCOS.00.HHZ
BK.LCOS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOS.00.HNZ/ BK.LCOS.00.HHZ)
Median: 0.995
L1 norm: 0.164
Difference in spectral phase
Phase (BK.LCOS.00.HNZ- BK.LCOS.00.HHZ)
Median: 0.010
L1 norm: 0.125

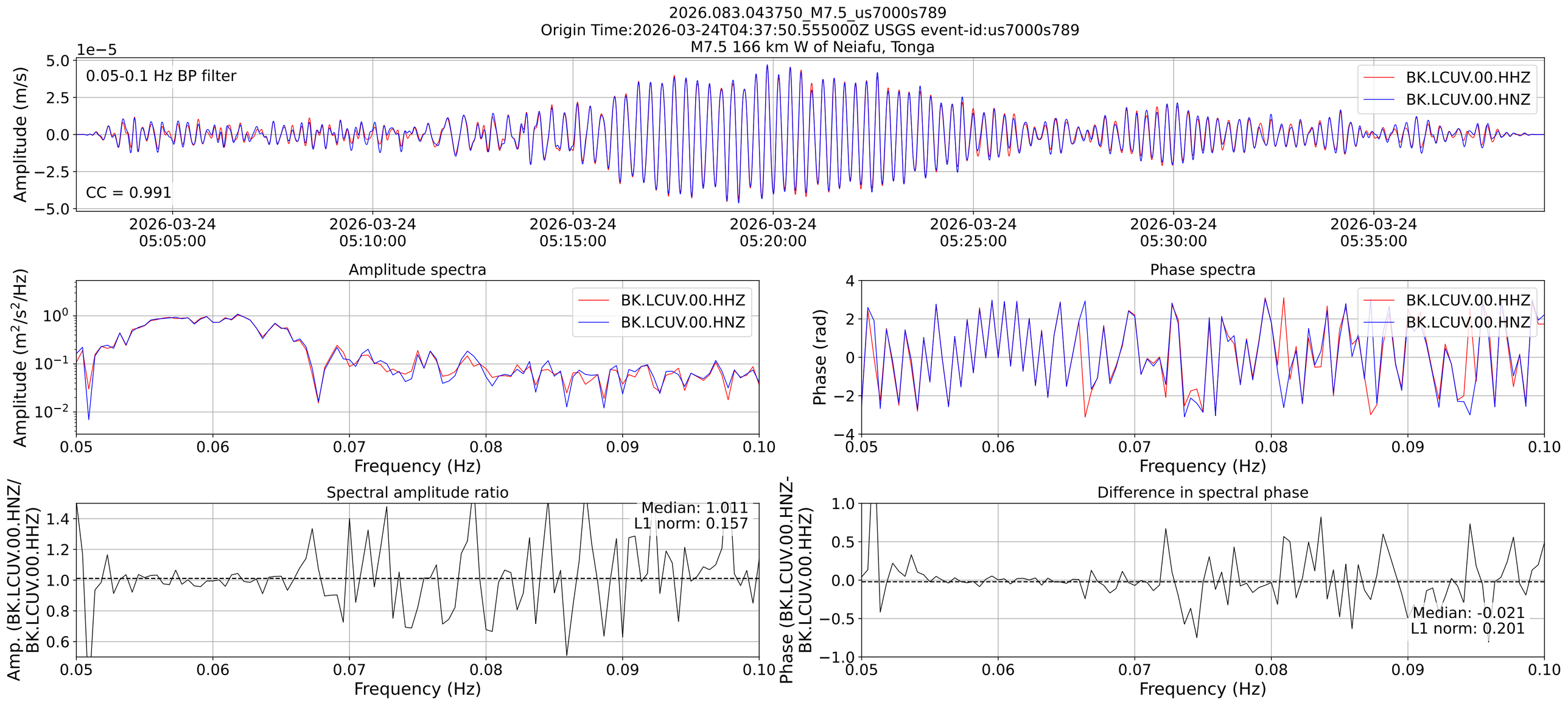

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.976
Amplitude (m/s)
BK.LCOW.00.HHE
BK.LCOW.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.025
L1 norm: 0.283
Amp. (BK.LCOW.00.HNE/ BK.LCOW.00.HHE)
Difference in spectral phase
Phase (BK.LCOW.00.HNE- BK.LCOW.00.HHE)
Median: -0.048
L1 norm: 0.243

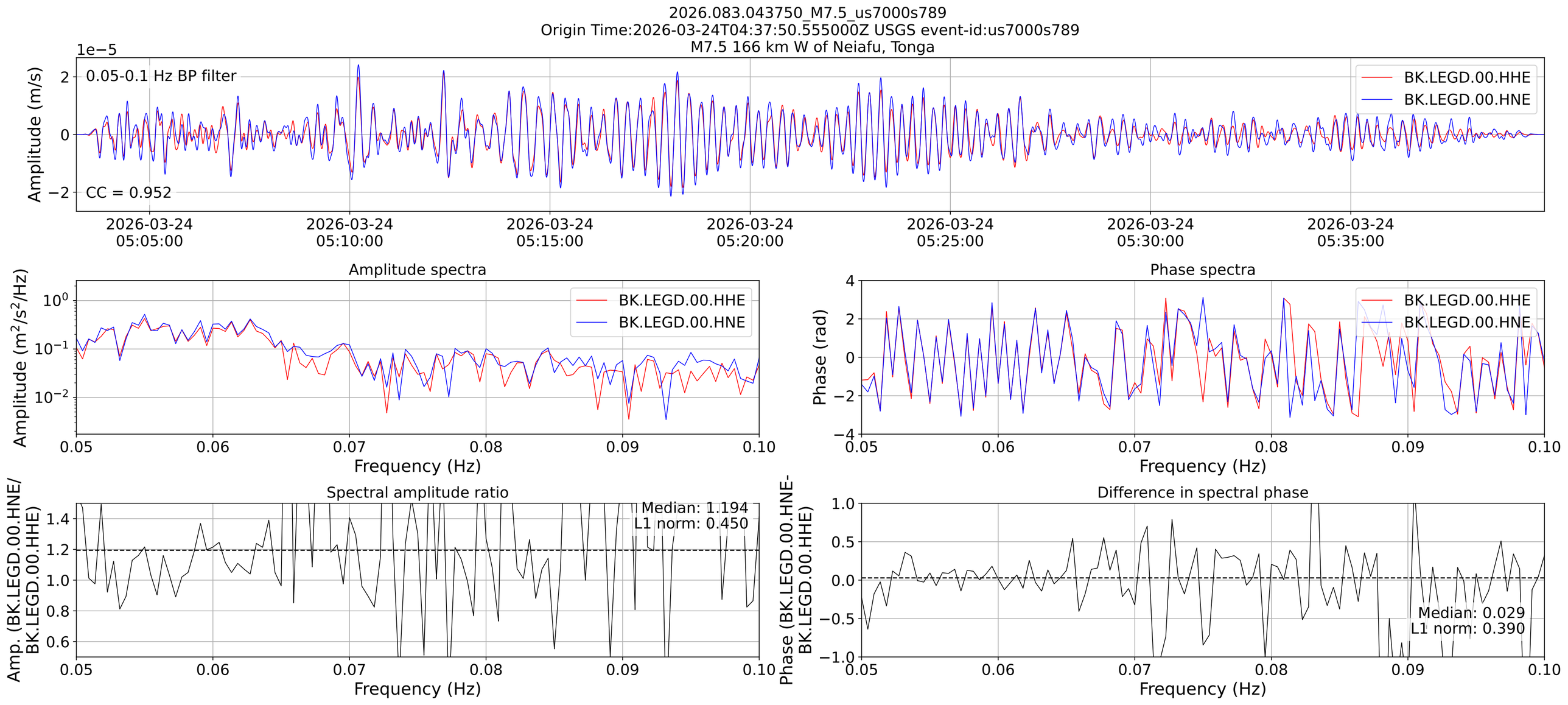

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.LCOW.00.HHN
BK.LCOW.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOW.00.HNN/ BK.LCOW.00.HHN)
Median: 1.028
L1 norm: 0.310
Difference in spectral phase
Phase (BK.LCOW.00.HNN- BK.LCOW.00.HHN)
Median: 0.006
L1 norm: 0.172

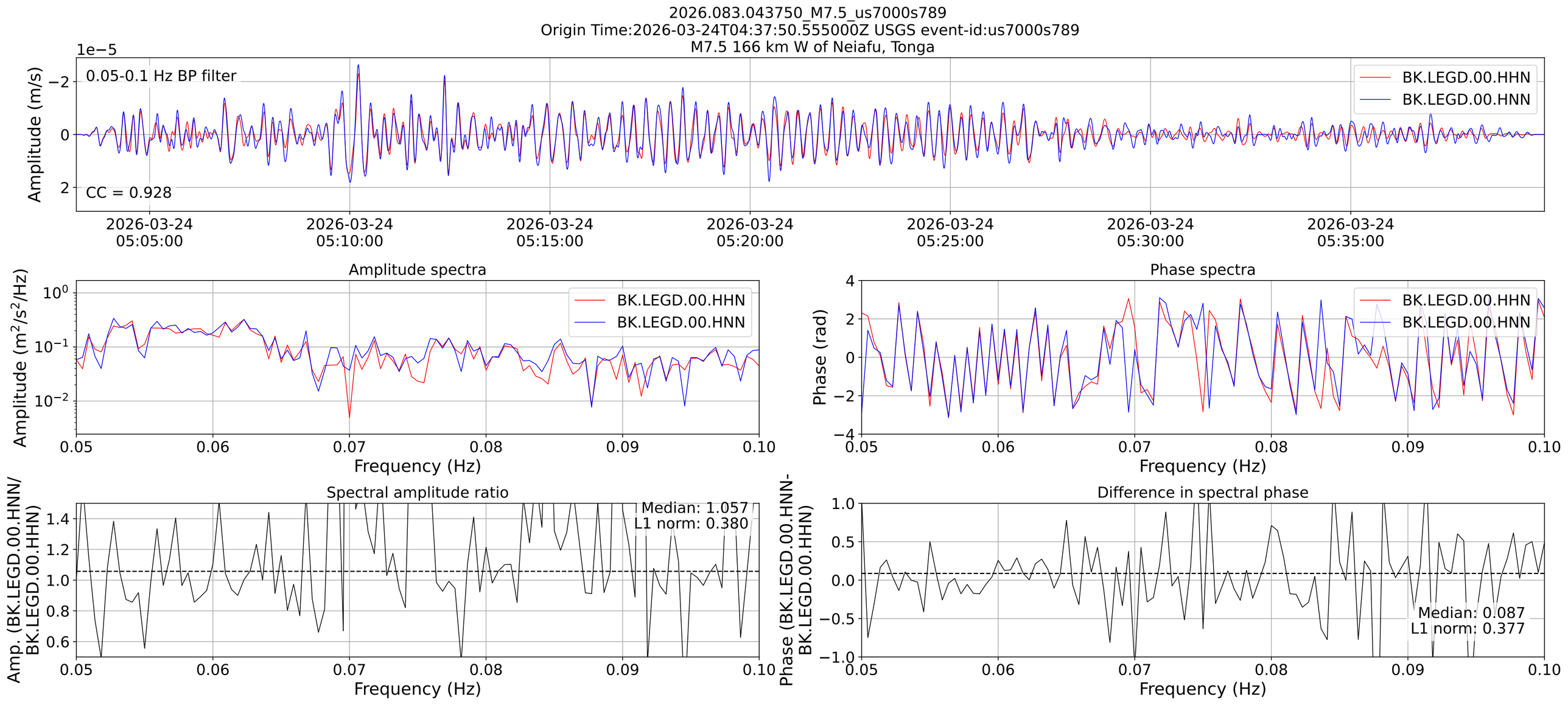

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.LCOW.00.HHZ
BK.LCOW.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCOW.00.HNZ/ BK.LCOW.00.HHZ)
Median: 1.020
L1 norm: 0.245
Difference in spectral phase
Phase (BK.LCOW.00.HNZ- BK.LCOW.00.HHZ)
Median: 0.025
L1 norm: 0.214

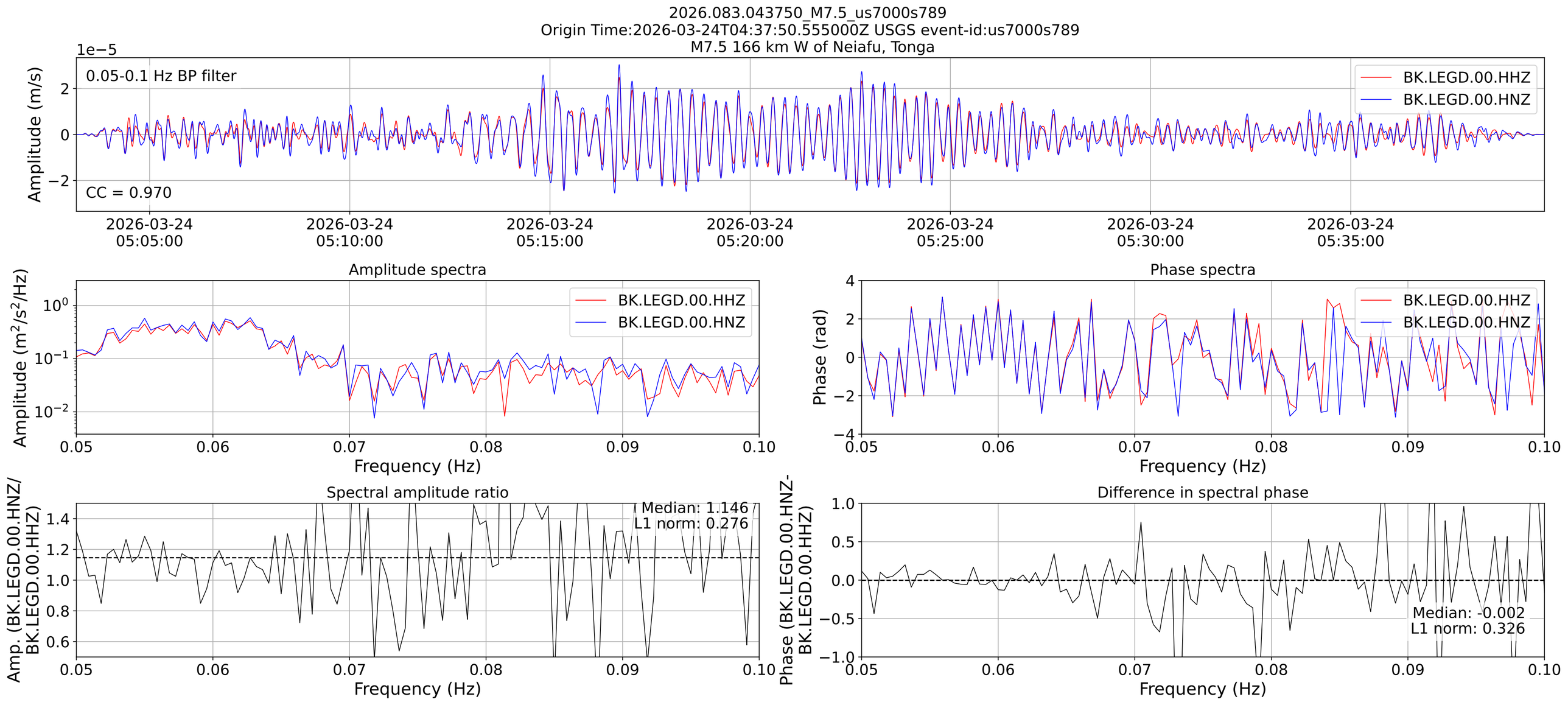

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.967
BK.LCUV.00.HHE
BK.LCUV.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNE/ BK.LCUV.00.HHE)
Median: 1.036
L1 norm: 0.256
Difference in spectral phase
Phase (BK.LCUV.00.HNE- BK.LCUV.00.HHE)
Median: 0.006
L1 norm: 0.258

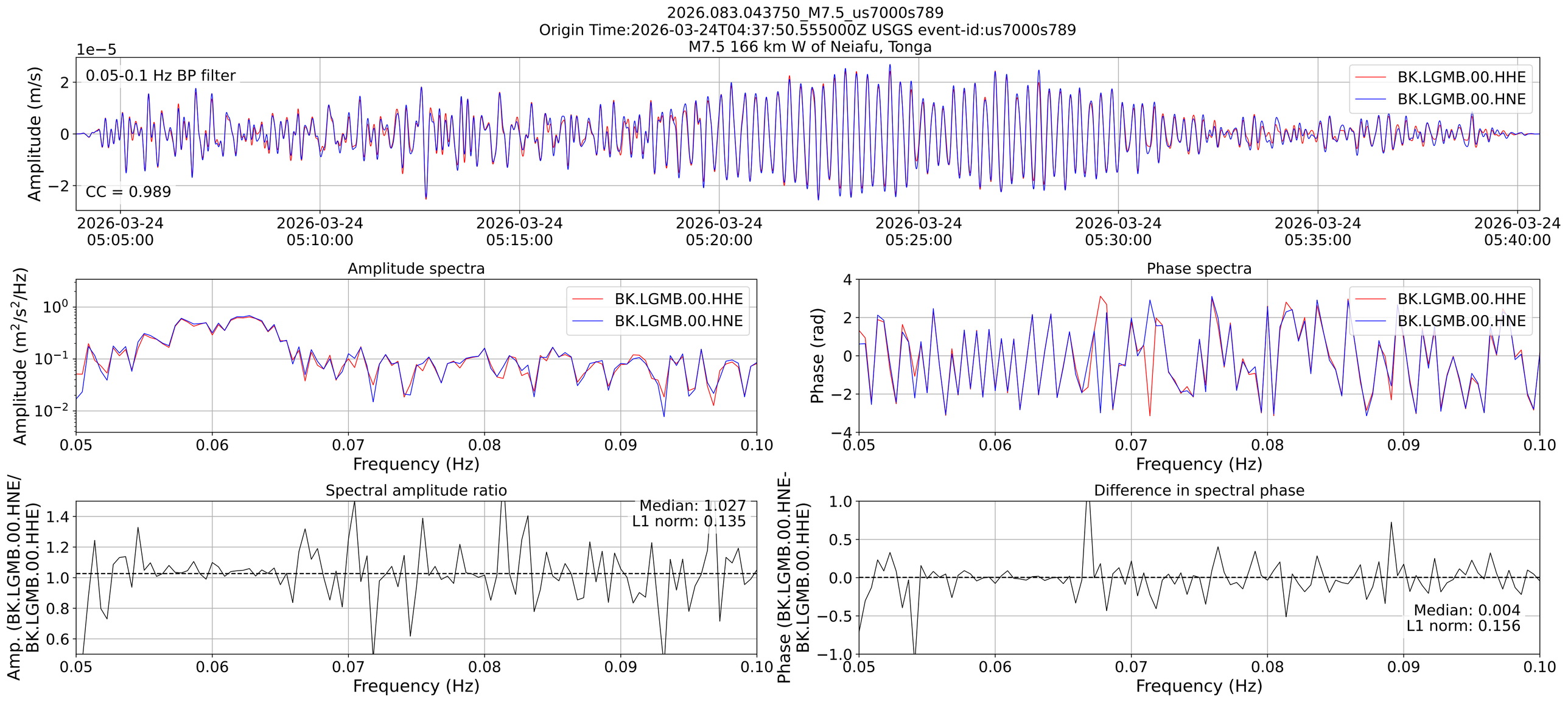

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.936
Amplitude (m/s)
BK.LCUV.00.HHN
BK.LCUV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNN/ BK.LCUV.00.HHN)
Median: 0.969
L1 norm: 0.283
Difference in spectral phase
Phase (BK.LCUV.00.HNN- BK.LCUV.00.HHN)
Median: 0.006
L1 norm: 0.366

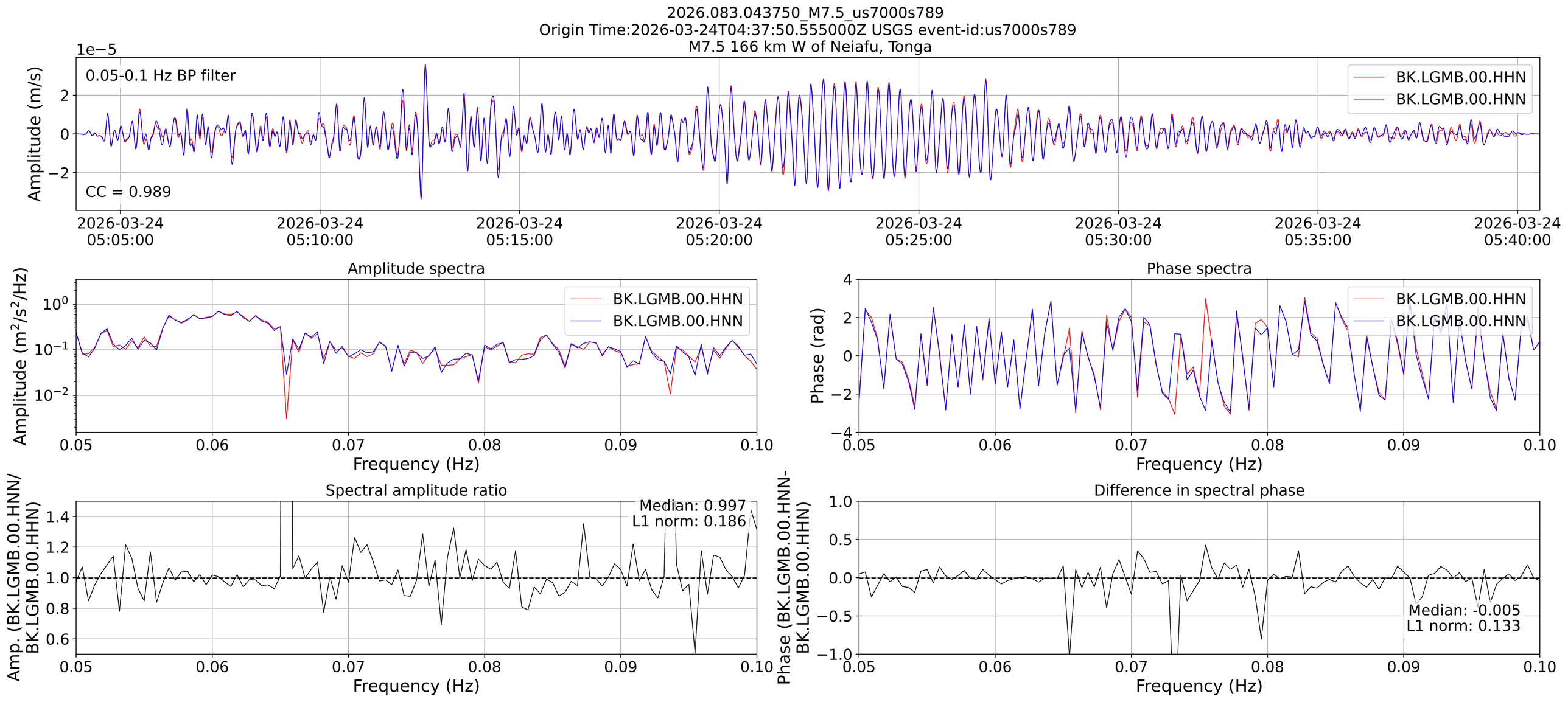

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
BK.LCUV.00.HHZ
BK.LCUV.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LCUV.00.HNZ/ BK.LCUV.00.HHZ)
Median: 1.011
L1 norm: 0.157
Difference in spectral phase
Phase (BK.LCUV.00.HNZ- BK.LCUV.00.HHZ)
Median: -0.021
L1 norm: 0.201

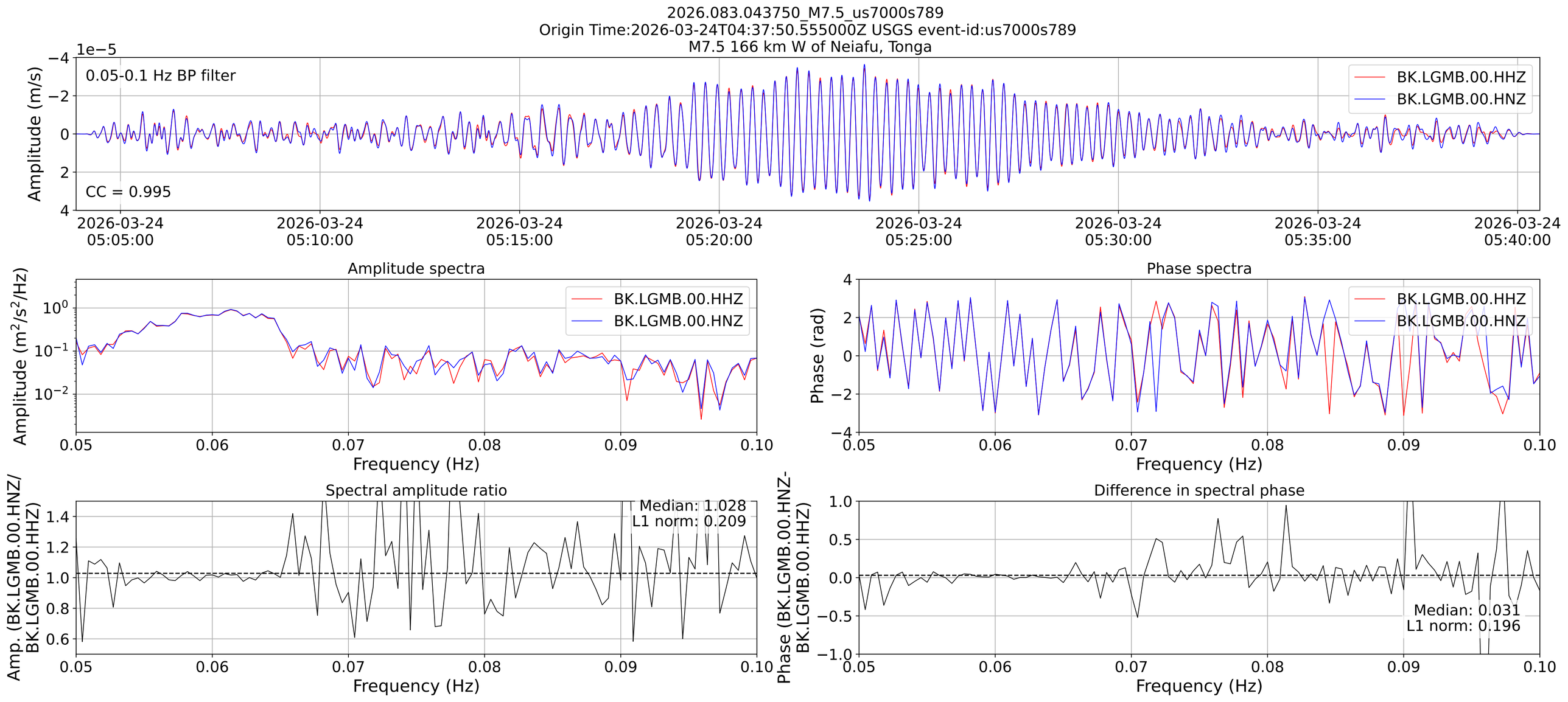

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.952
Amplitude (m/s)
BK.LEGD.00.HHE
BK.LEGD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNE/ BK.LEGD.00.HHE)
Median: 1.194
L1 norm: 0.450
Difference in spectral phase
Phase (BK.LEGD.00.HNE- BK.LEGD.00.HHE)
Median: 0.029
L1 norm: 0.390

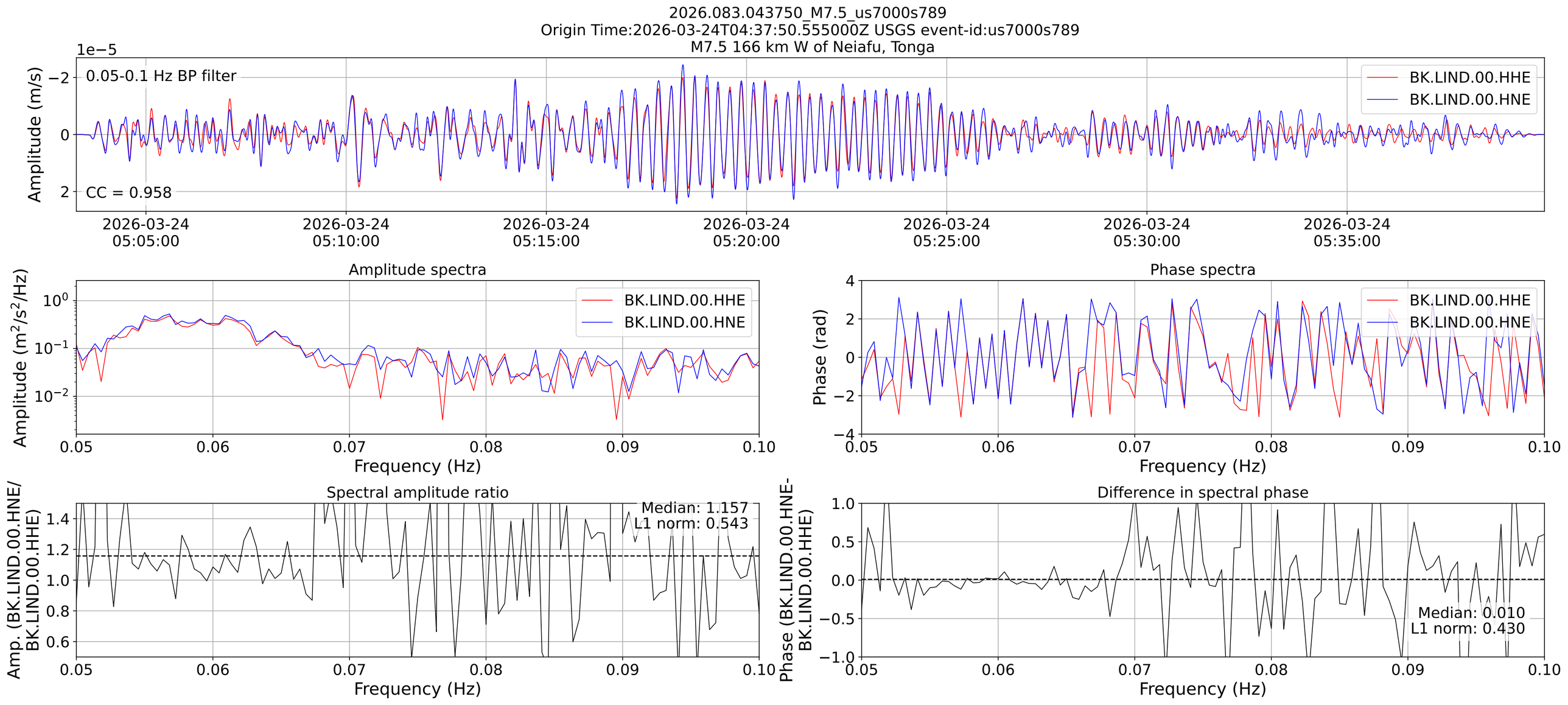

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.928
Amplitude (m/s)
BK.LEGD.00.HHN
BK.LEGD.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNN/ BK.LEGD.00.HHN)
Median: 1.057
L1 norm: 0.380
Difference in spectral phase
Phase (BK.LEGD.00.HNN- BK.LEGD.00.HHN)
Median: 0.087
L1 norm: 0.377

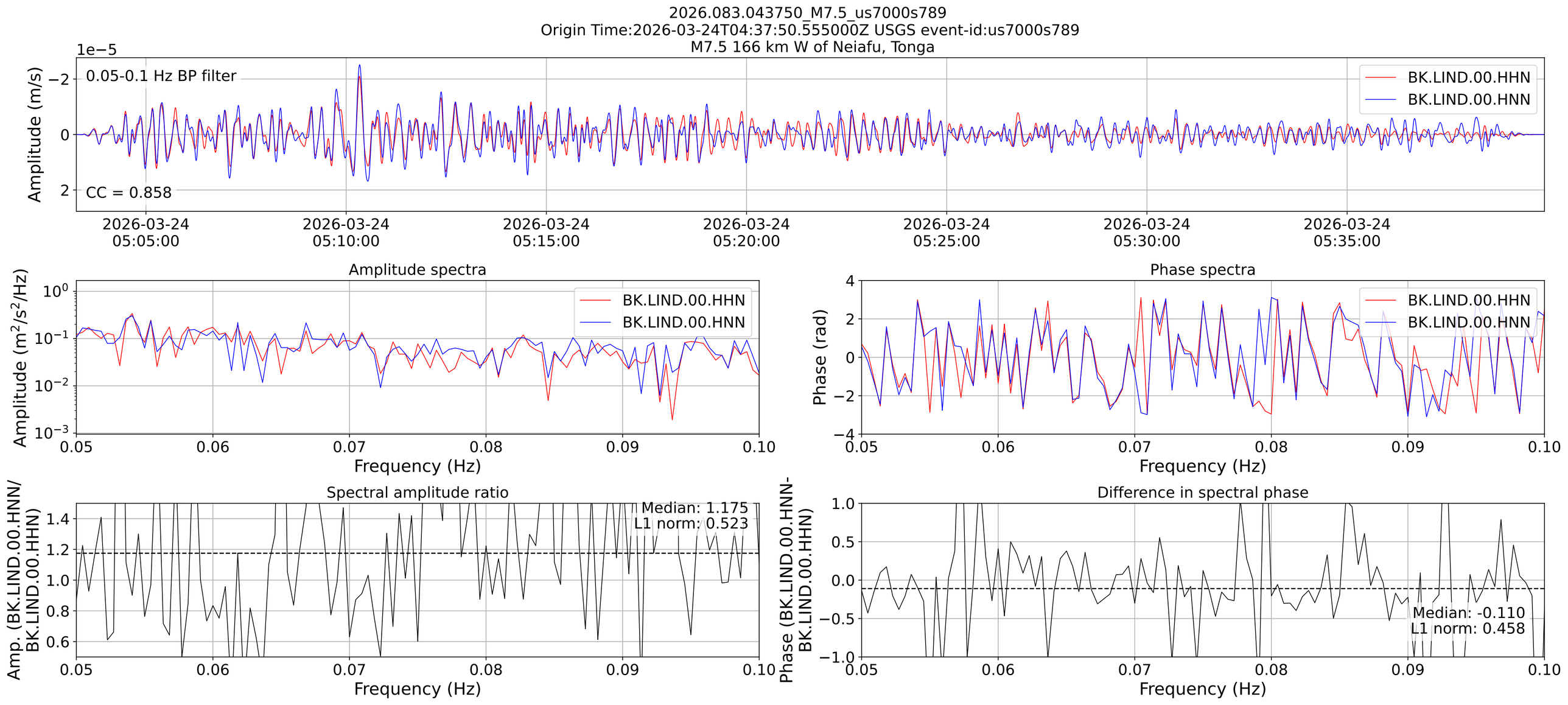

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.970
Amplitude (m/s)
BK.LEGD.00.HHZ
BK.LEGD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LEGD.00.HNZ/ BK.LEGD.00.HHZ)
Median: 1.146
L1 norm: 0.276
Difference in spectral phase
Phase (BK.LEGD.00.HNZ-BK.LEGD.00.HHZ)
Median: -0.002
L1 norm: 0.326

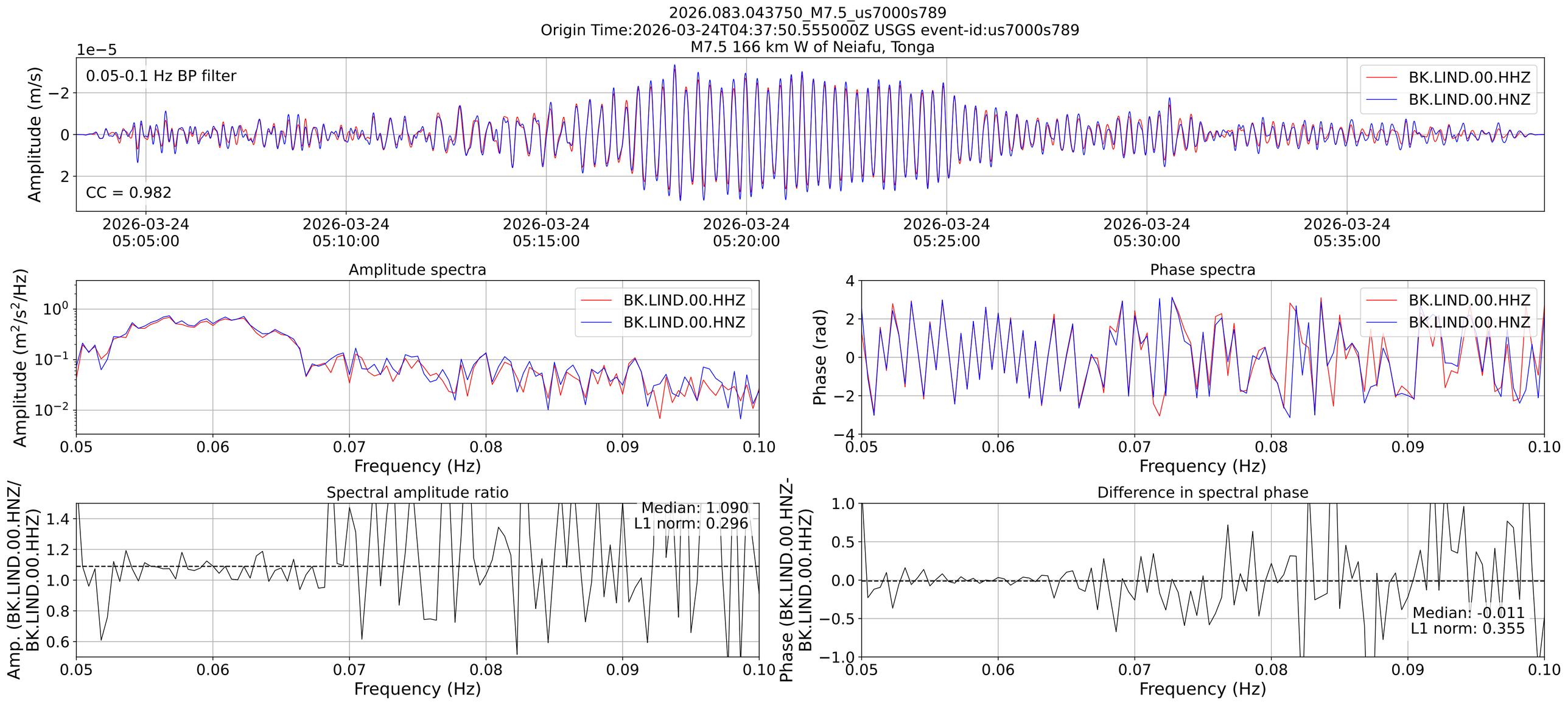

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.LGMB.00.HHE
BK.LGMB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNE/ BK.LGMB.00.HHE)
Median: 1.027
L1 norm: 0.135
Difference in spectral phase
Phase (BK.LGMB.00.HNE- BK.LGMB.00.HHE)
Median: 0.004
L1 norm: 0.156

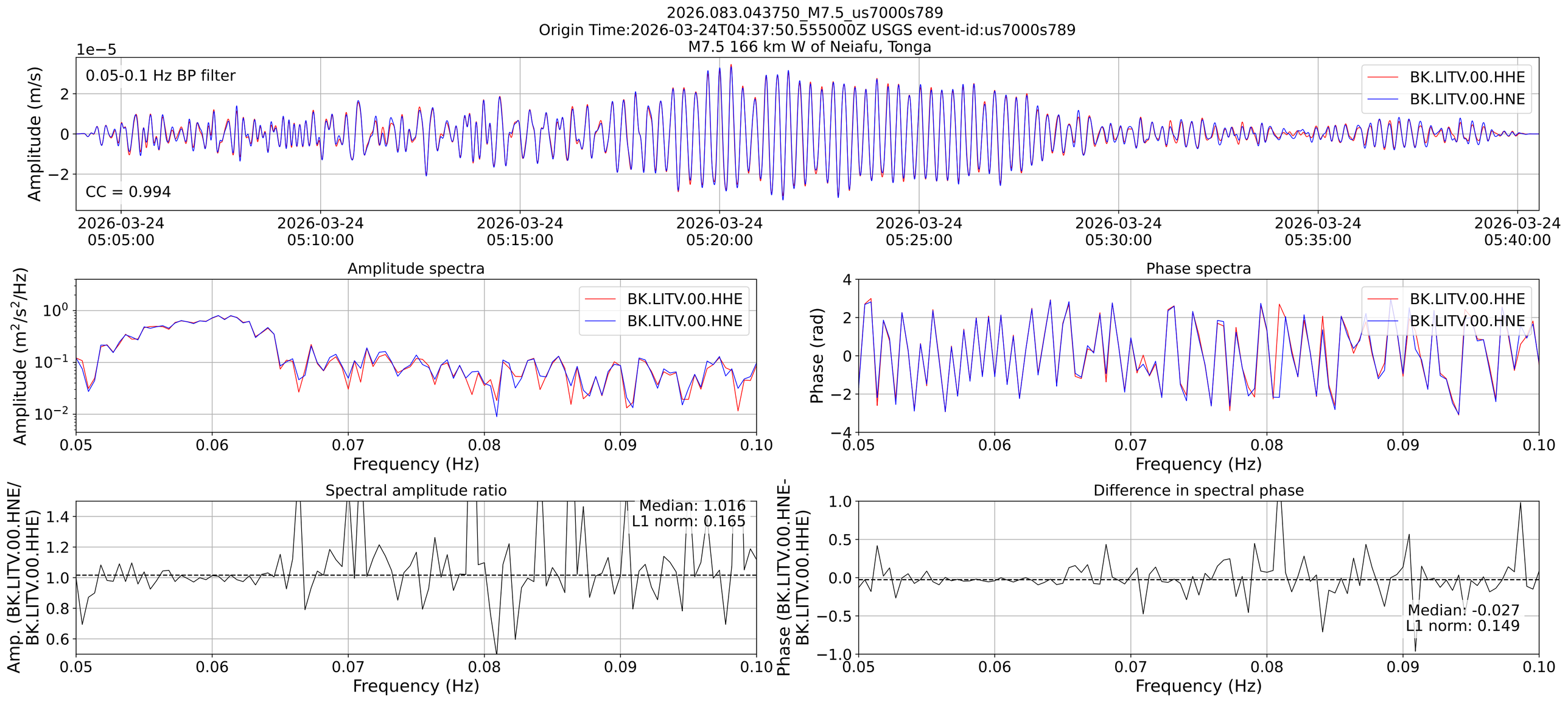

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.LGMB.00.HHN
BK.LGMB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNN/ BK.LGMB.00.HHN)
Median: 0.997
L1 norm: 0.186
Difference in spectral phase
Phase (BK.LGMB.00.HNN- BK.LGMB.00.HHN)
Median: -0.005
L1 norm: 0.133

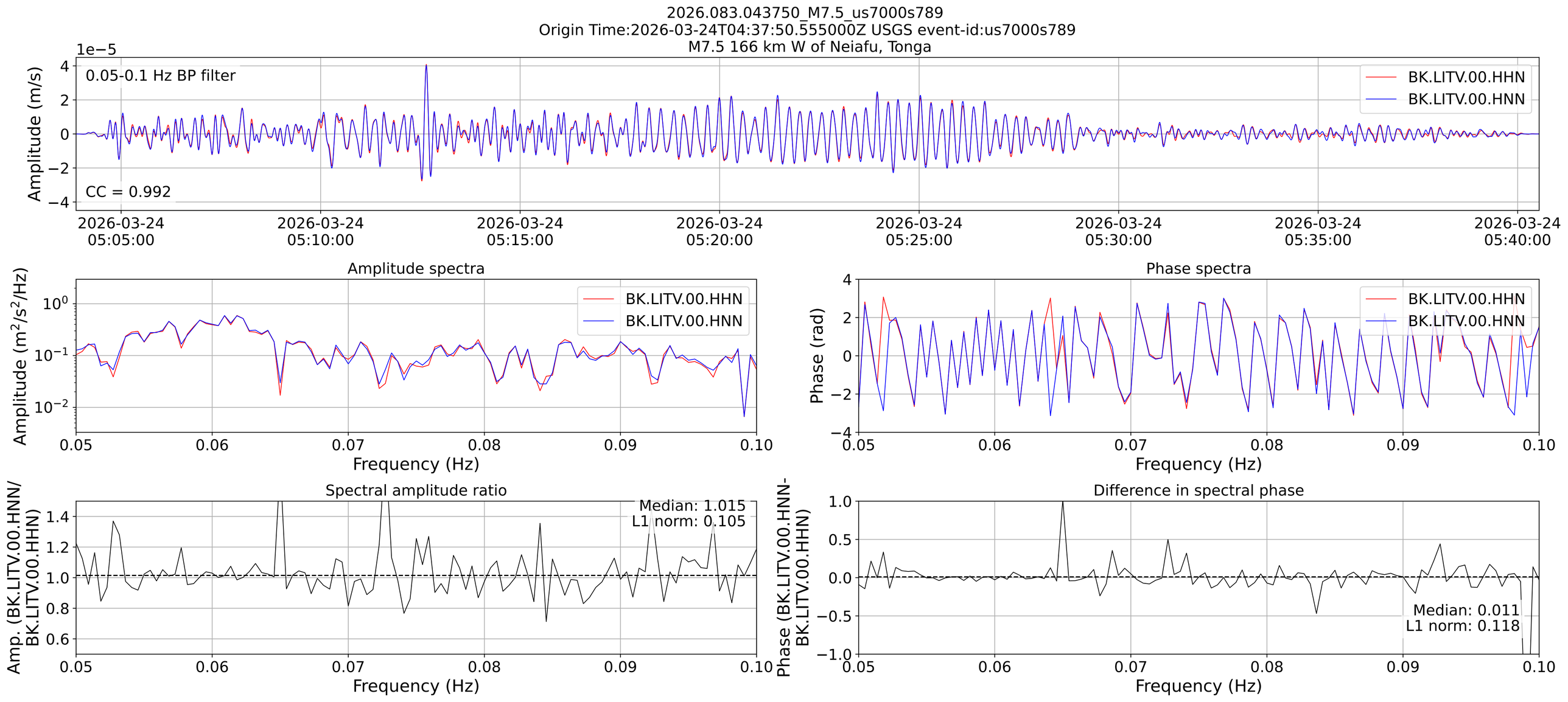

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.LGMB.00.HHZ
BK.LGMB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LGMB.00.HNZ/ BK.LGMB.00.HHZ)
Median: 1.028
L1 norm: 0.209
Difference in spectral phase
Phase (BK.LGMB.00.HNZ- BK.LGMB.00.HHZ)
Median: 0.031
L1 norm: 0.196

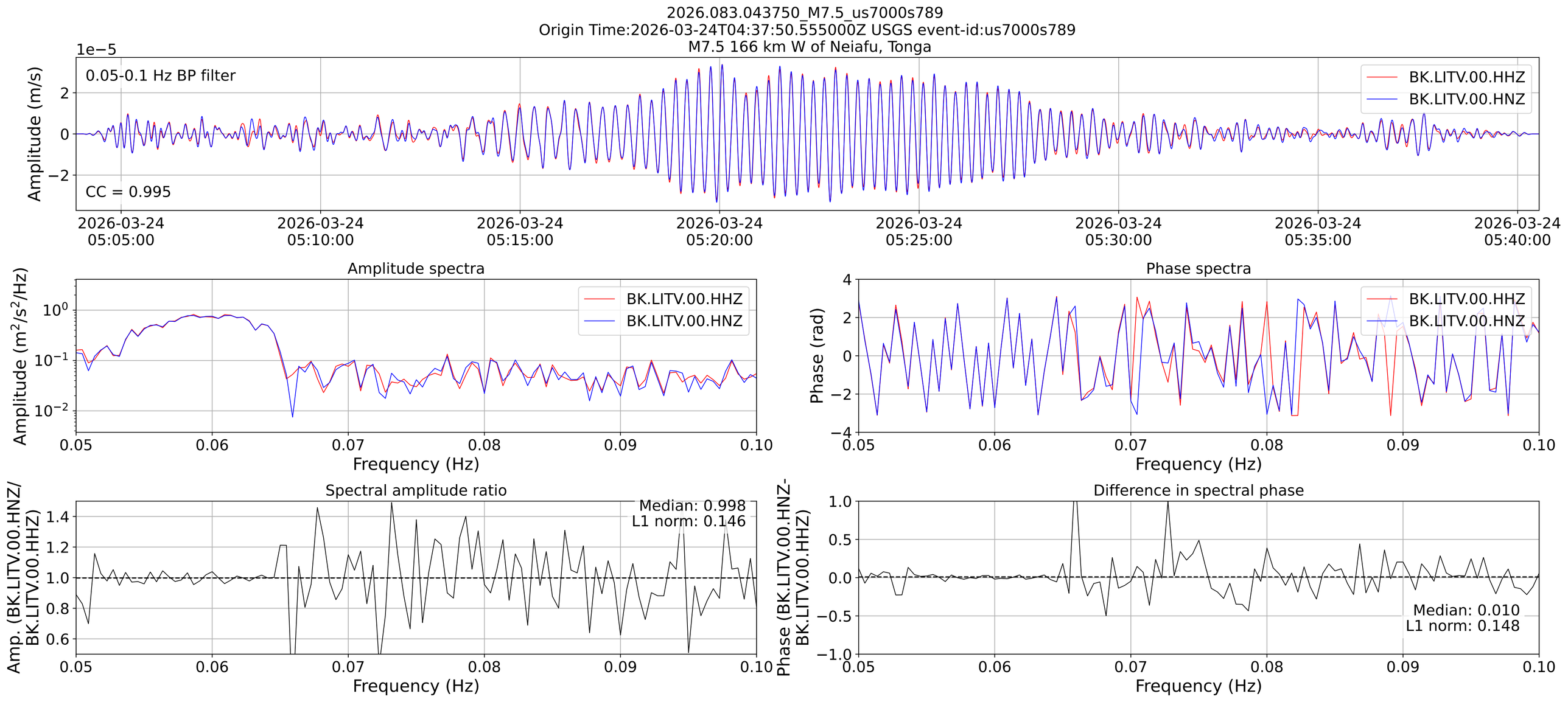

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.958
Amplitude (m/s)
BK.LIND.00.HHE
BK.LIND.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNE/ BK.LIND.00.HHE)
Median: 1.157
L1 norm: 0.543
Difference in spectral phase
Phase (BK.LIND.00.HNE- BK.LIND.00.HHE)
Median: 0.010
L1 norm: 0.430

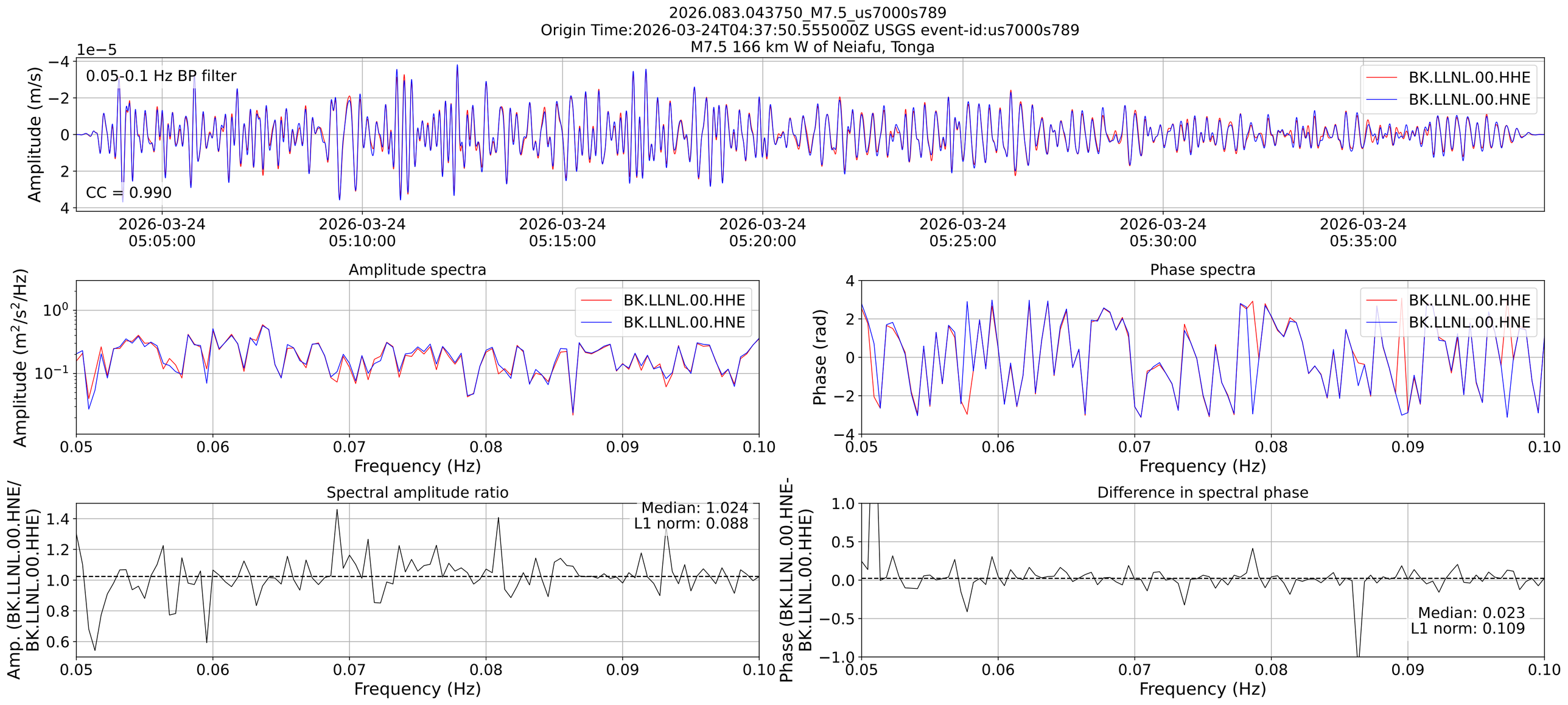

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.858
Amplitude (m/s)
BK.LIND.00.HHN
BK.LIND.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNN/ BK.LIND.00.HHN)
Median: 1.175
L1 norm: 0.523
Difference in spectral phase
Phase (BK.LIND.00.HNN- BK.LIND.00.HHN)
Median: -0.110
L1 norm: 0.458

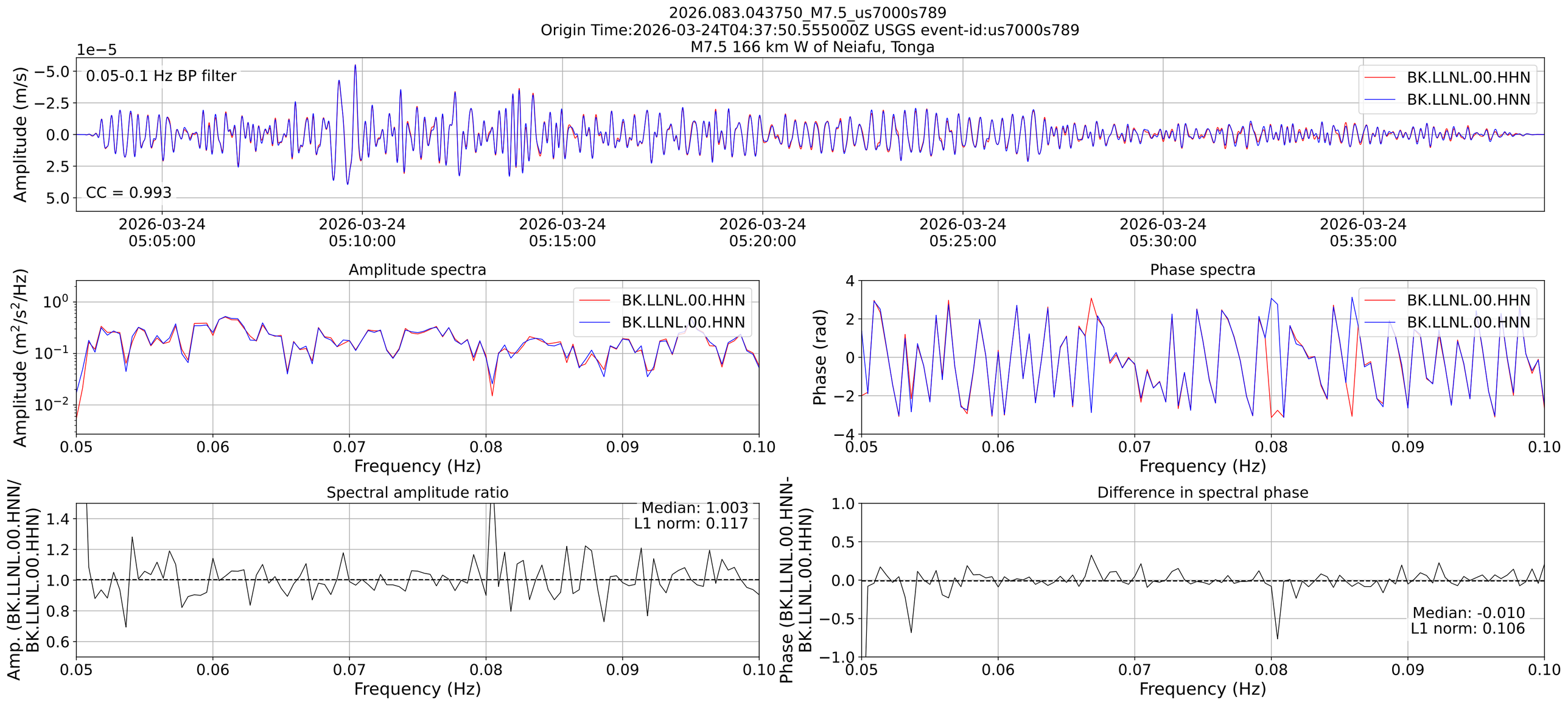

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.LIND.00.HHZ
BK.LIND.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LIND.00.HNZ/ BK.LIND.00.HHZ)
Median: 1.090
L1 norm: 0.296
Difference in spectral phase
Phase (BK.LIND.00.HNZ- BK.LIND.00.HHZ)
Median: -0.011
L1 norm: 0.355

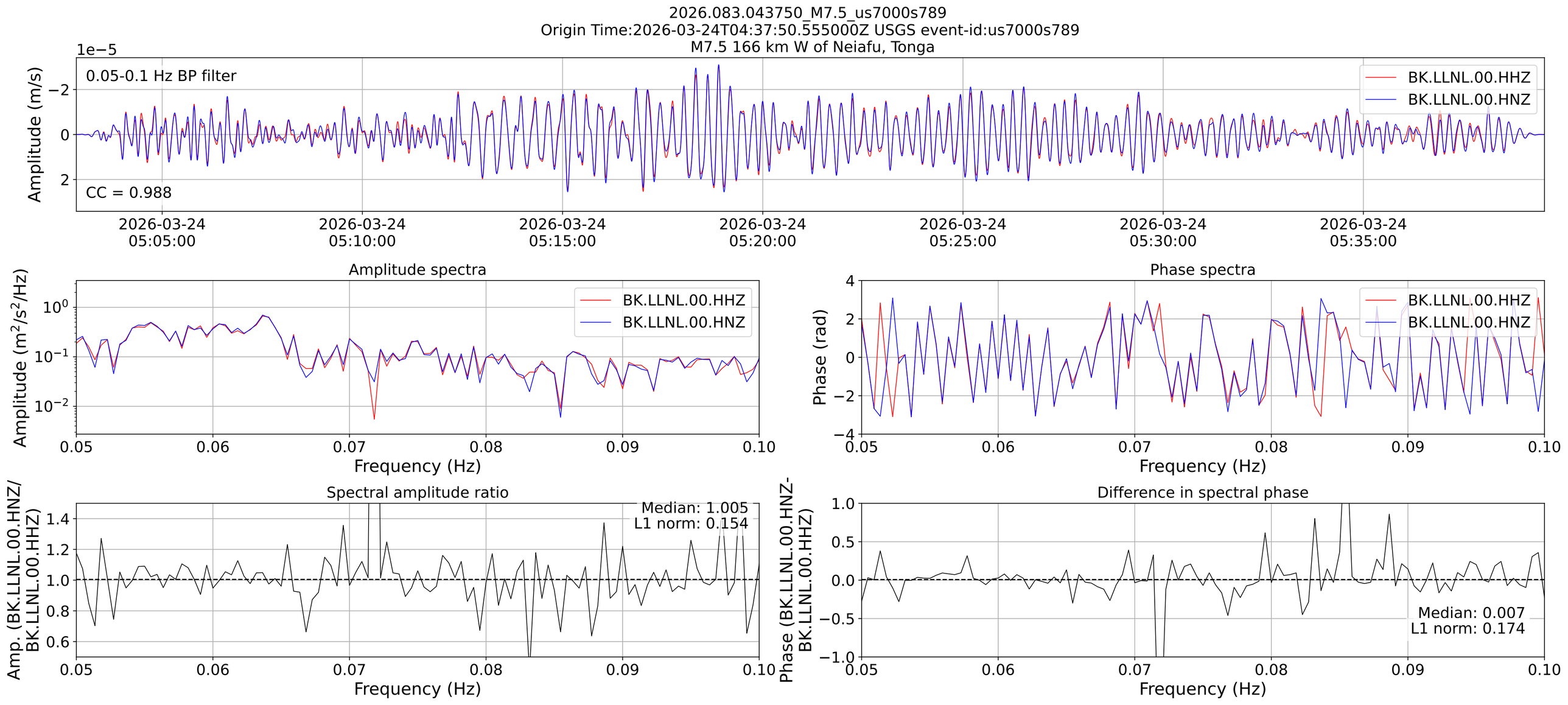

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.LITV.00.HHE
BK.LITV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNE/ BK.LITV.00.HHE)
Median: 1.016
L1 norm: 0.165
Difference in spectral phase
Phase (BK.LITV.00.HNE- BK.LITV.00.HHE)
Median: -0.027
L1 norm: 0.149

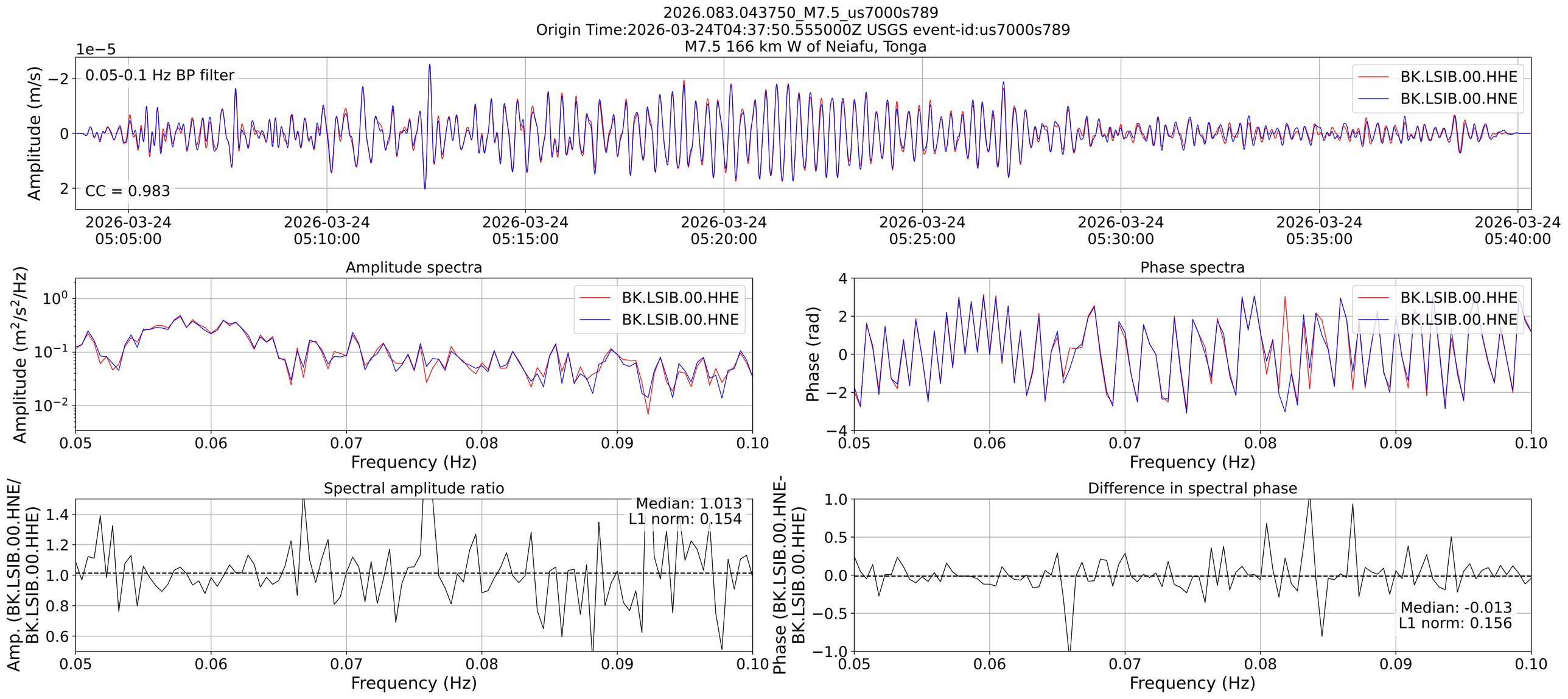

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
BK.LITV.00.HHN
BK.LITV.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNN/ BK.LITV.00.HHN)
Median: 1.015
L1 norm: 0.105
Difference in spectral phase
Phase (BK.LITV.00.HNN- BK.LITV.00.HHN)
Median: 0.011
L1 norm: 0.118

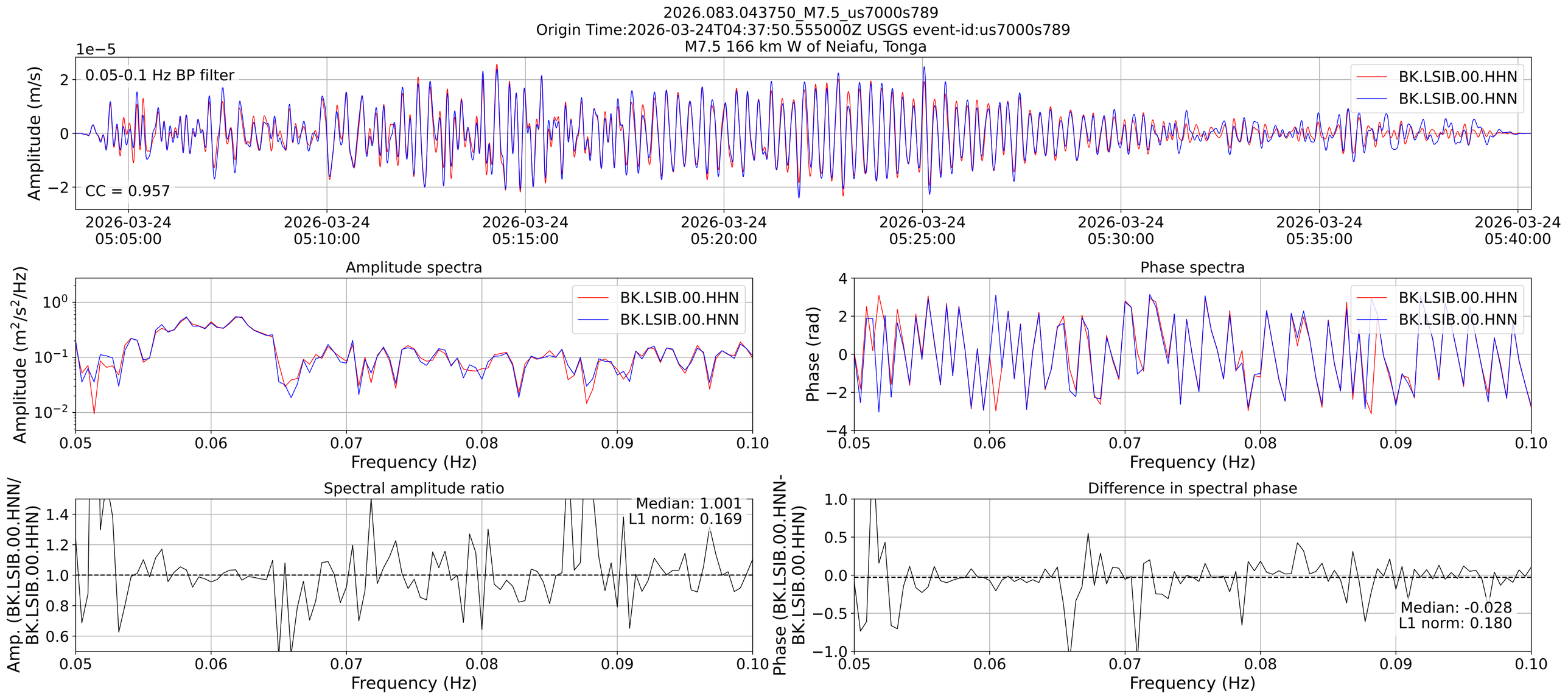

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.LITV.00.HHZ
BK.LITV.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LITV.00.HNZ/ BK.LITV.00.HHZ)
Median: 0.998
L1 norm: 0.146
Difference in spectral phase
Phase (BK.LITV.00.HNZ- BK.LITV.00.HHZ)
Median: 0.010
L1 norm: 0.148

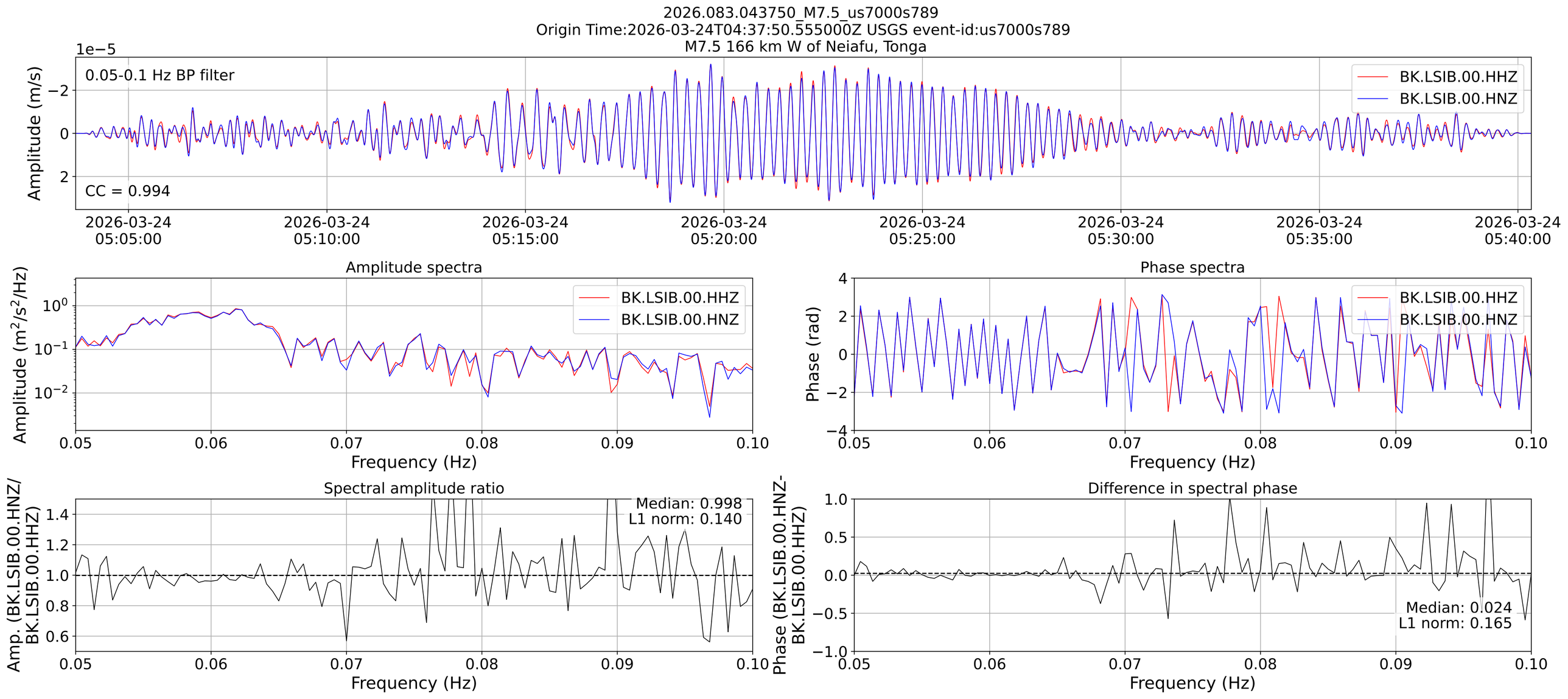

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.990
BK.LLNL.00.HHE
BK.LLNL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNE/ BK.LLNL.00.HHE)
Median: 1.024
L1 norm: 0.088
Difference in spectral phase
Phase (BK.LLNL.00.HNE- BK.LLNL.00.HHE)
Median: 0.023
L1 norm: 0.109

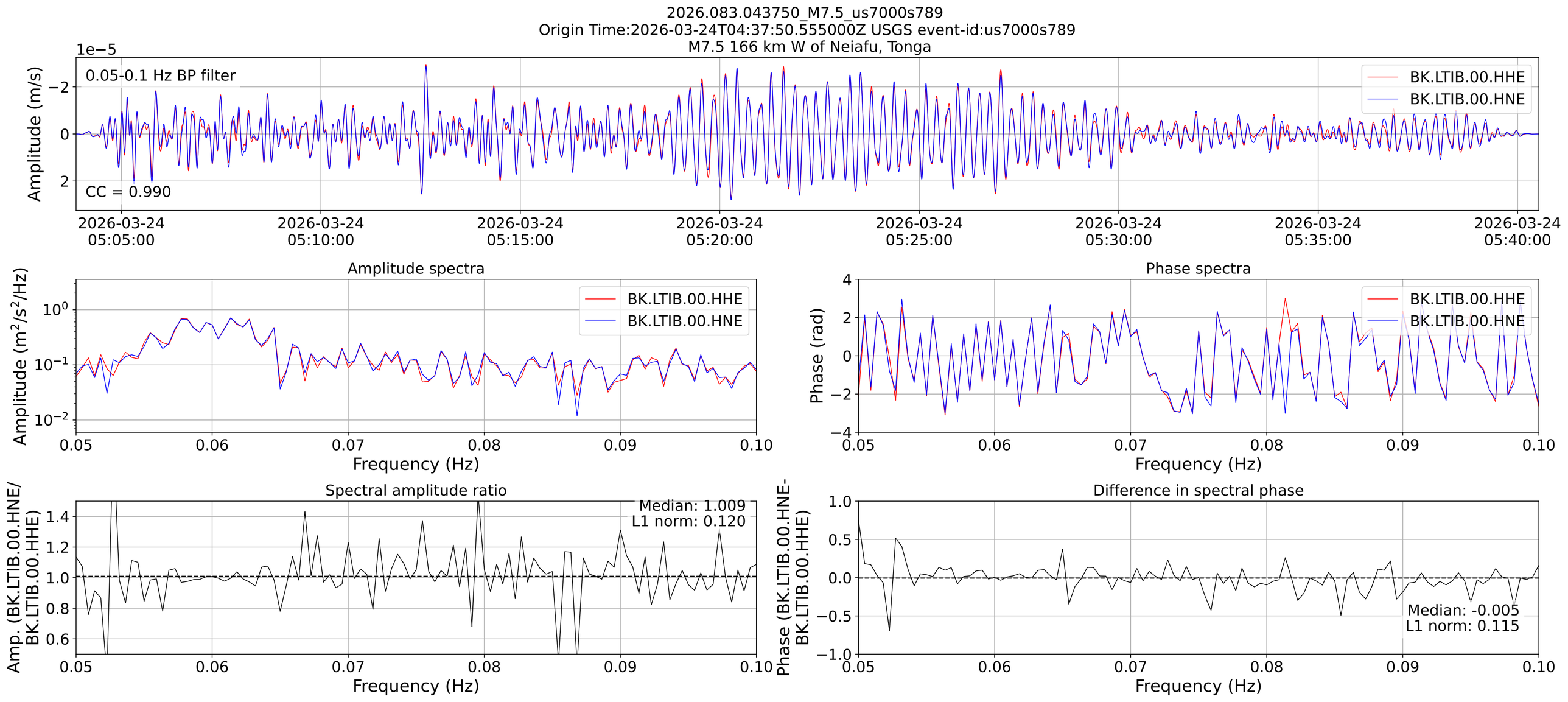

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.LLNL.00.HHN
BK.LLNL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNN/ BK.LLNL.00.HHN)
Median: 1.003
L1 norm: 0.117
Difference in spectral phase
Phase (BK.LLNL.00.HNN- BK.LLNL.00.HHN)
Median: -0.010
L1 norm: 0.106

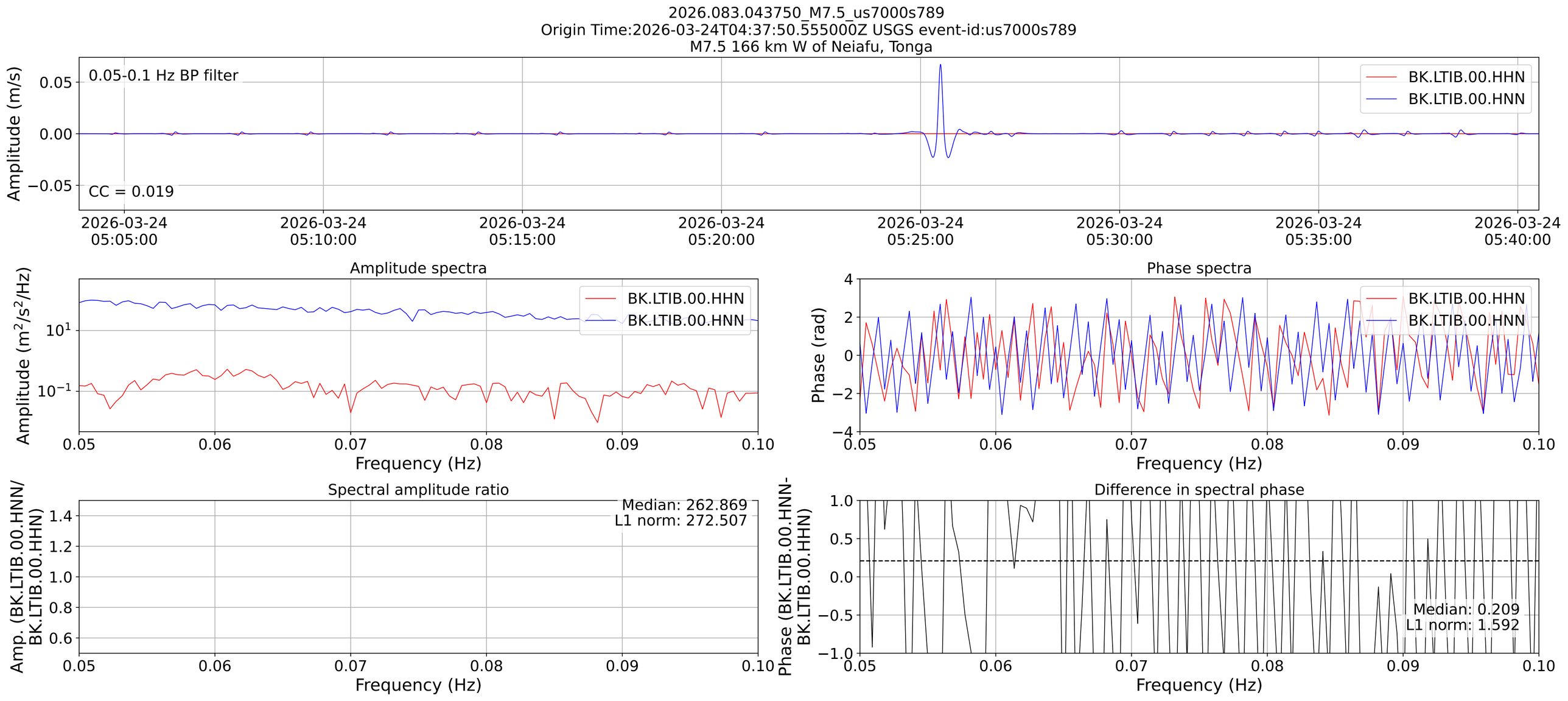

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.988
BK.LLNL.00.HHZ
BK.LLNL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LLNL.00.HNZ/ BK.LLNL.00.HHZ)
Median: 1.005
L1 norm: 0.154
Difference in spectral phase
Phase (BK.LLNL.00.HNZ- BK.LLNL.00.HHZ)
Median: 0.007
L1 norm: 0.174

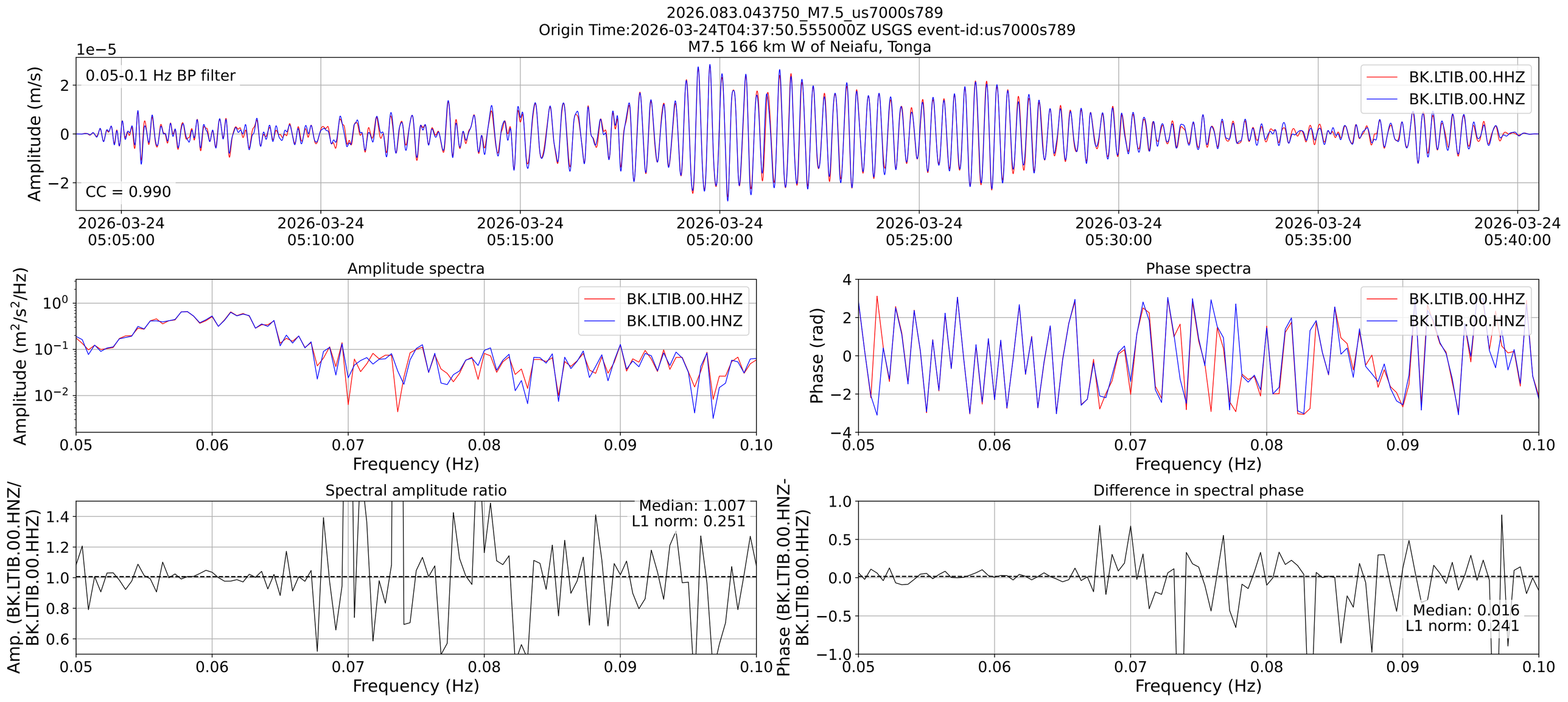

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.LSIB.00.HHE
BK.LSIB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNE/ BK.LSIB.00.HHE)
Median: 1.013
L1 norm: 0.154
Difference in spectral phase
Phase (BK.LSIB.00.HNE- BK.LSIB.00.HHE)
Median: -0.013
L1 norm: 0.156

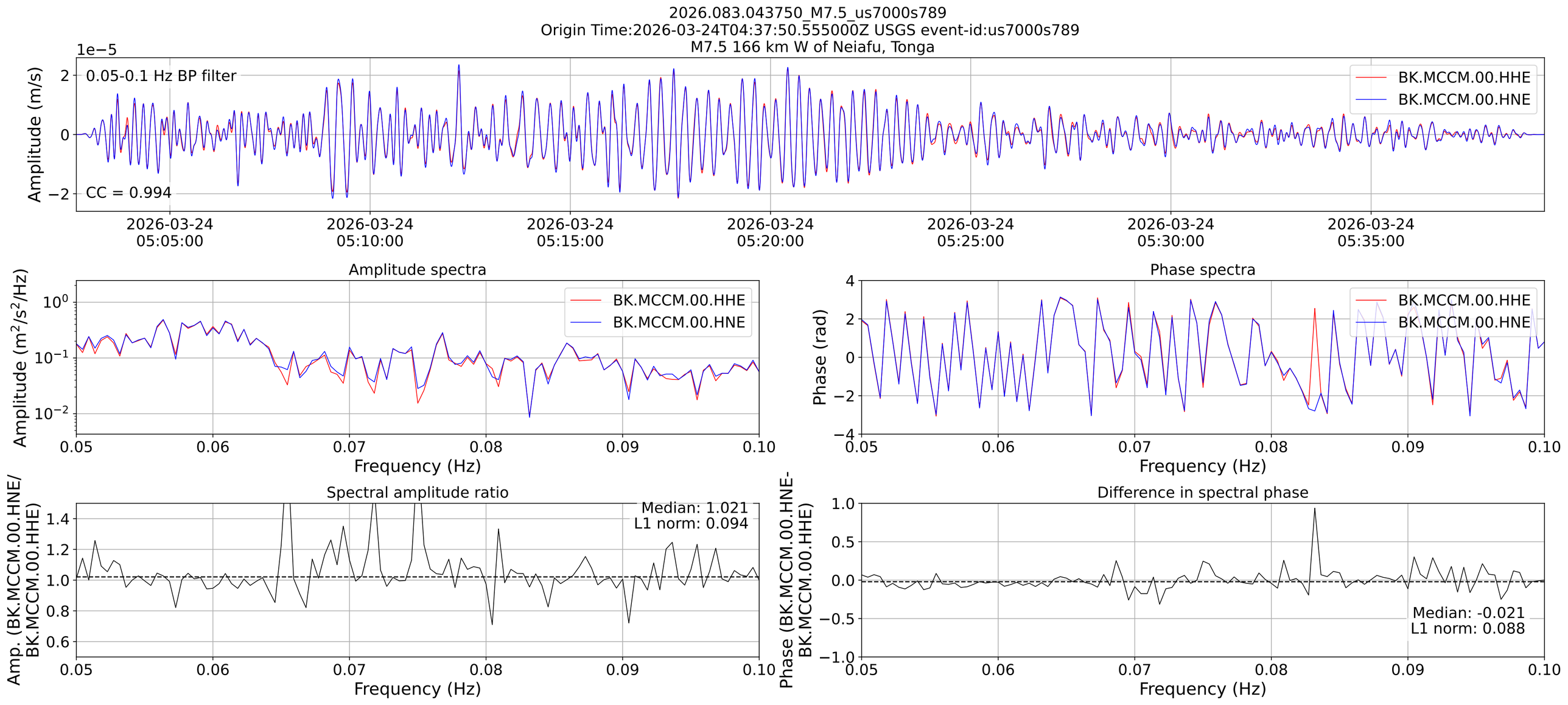

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.957
Amplitude (m/s)
BK.LSIB.00.HHN
BK.LSIB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNN/ BK.LSIB.00.HHN)
Median: 1.001
L1 norm: 0.169
Difference in spectral phase
Phase (BK.LSIB.00.HNN- BK.LSIB.00.HHN)
Median: -0.028
L1 norm: 0.180

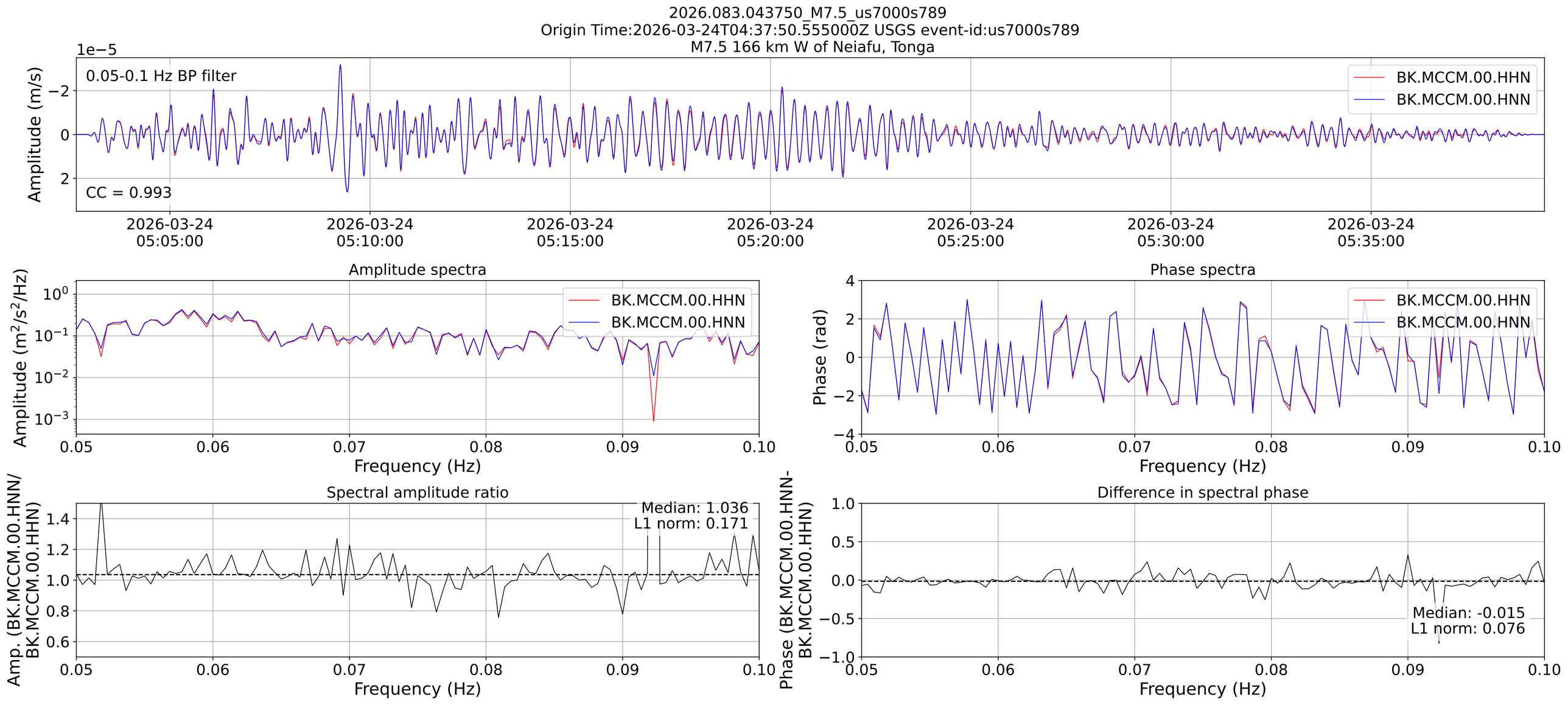

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.LSIB.00.HHZ
BK.LSIB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LSIB.00.HNZ/ BK.LSIB.00.HHZ)
Median: 0.998
L1 norm: 0.140
Difference in spectral phase
Phase (BK.LSIB.00.HNZ- BK.LSIB.00.HHZ)
Median: 0.024
L1 norm: 0.165

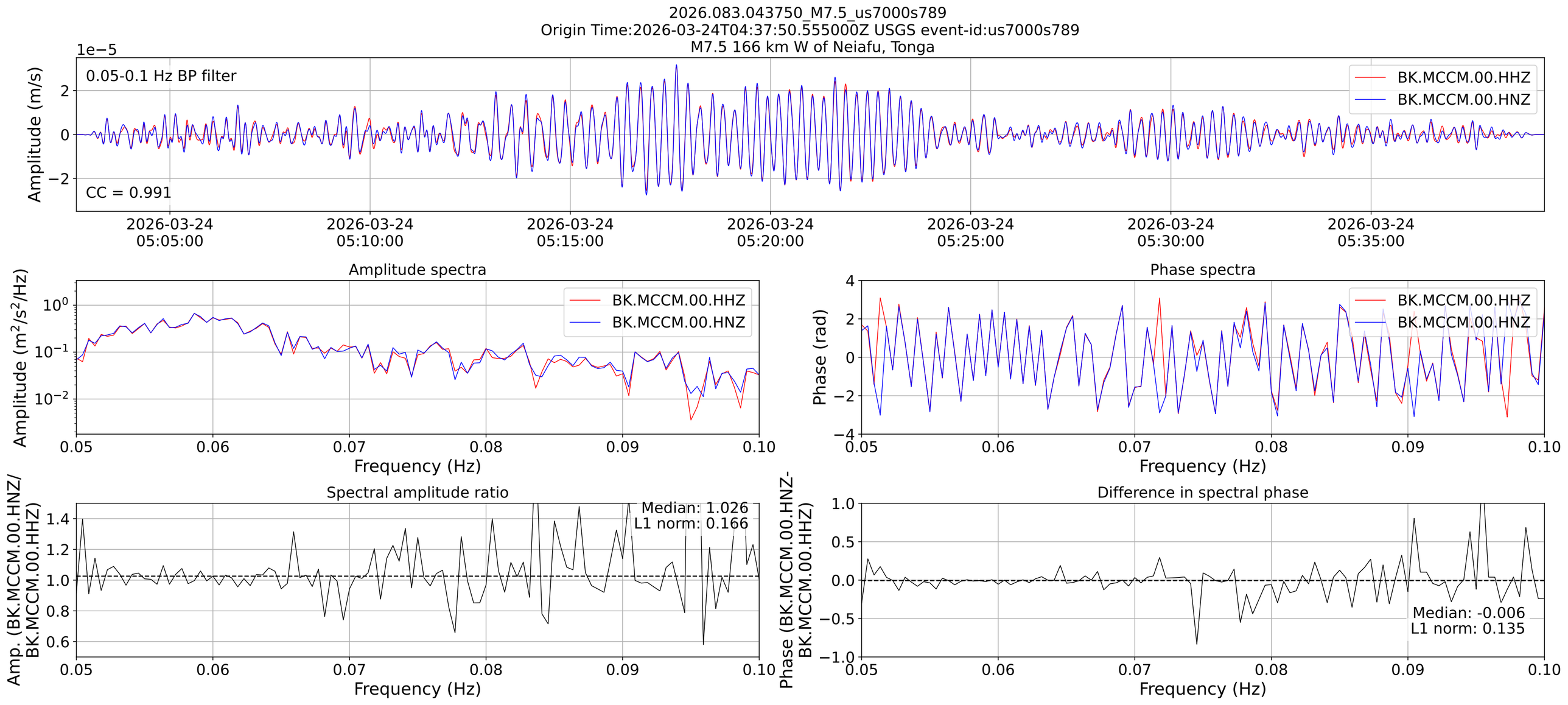

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.LTIB.00.HHE
BK.LTIB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNE/ BK.LTIB.00.HHE)
Median: 1.009
L1 norm: 0.120
Difference in spectral phase
Phase (BK.LTIB.00.HNE- BK.LTIB.00.HHE)
Median: -0.005
L1 norm: 0.115

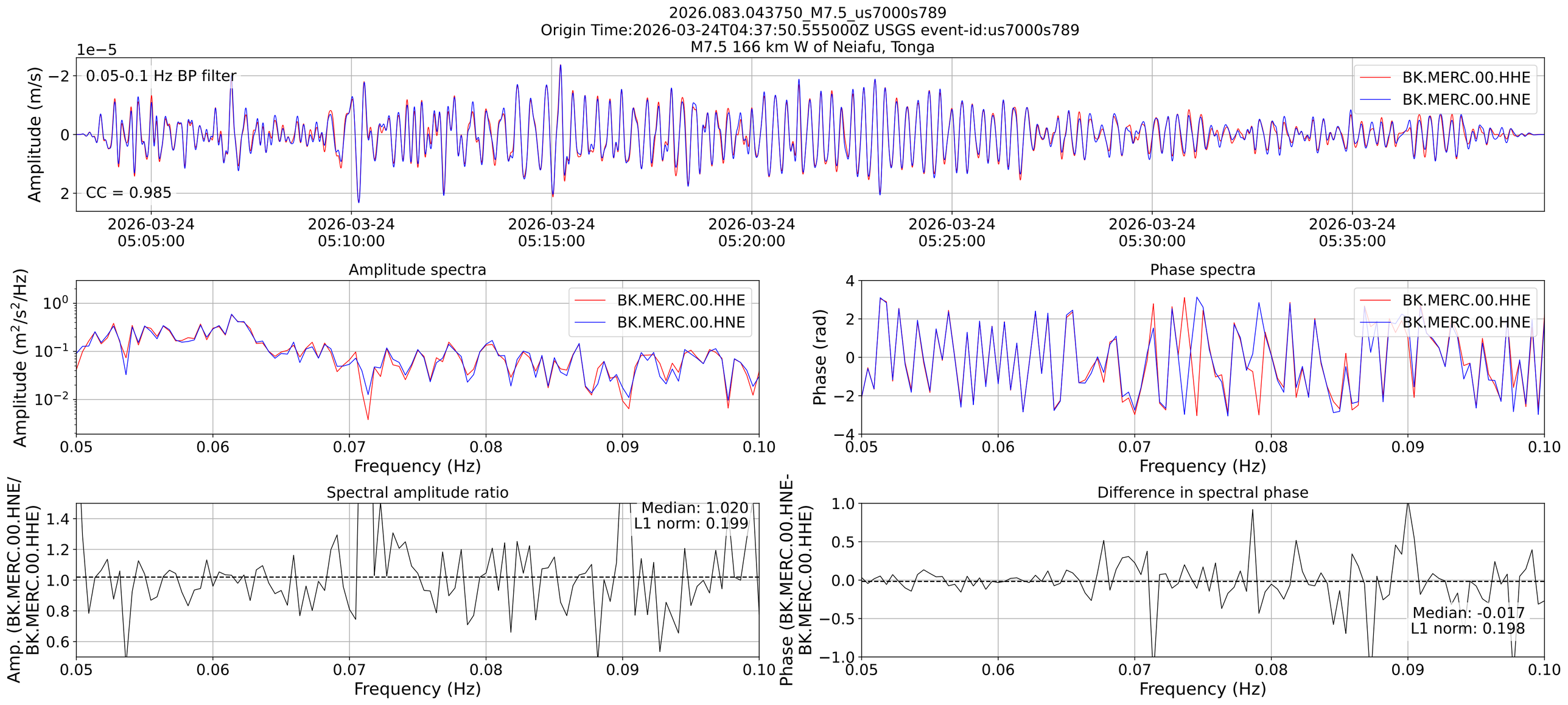

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.019
BK.LTIB.00.HHN
BK.LTIB.00.HNN
Amplitude (m/s)
0.05
0.00
−0.05
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNN/ BK.LTIB.00.HHN)
Median: 262.869
L1 norm: 272.507
Difference in spectral phase
Phase (BK.LTIB.00.HNN- BK.LTIB.00.HHN)
Median: 0.209
L1 norm: 1.592

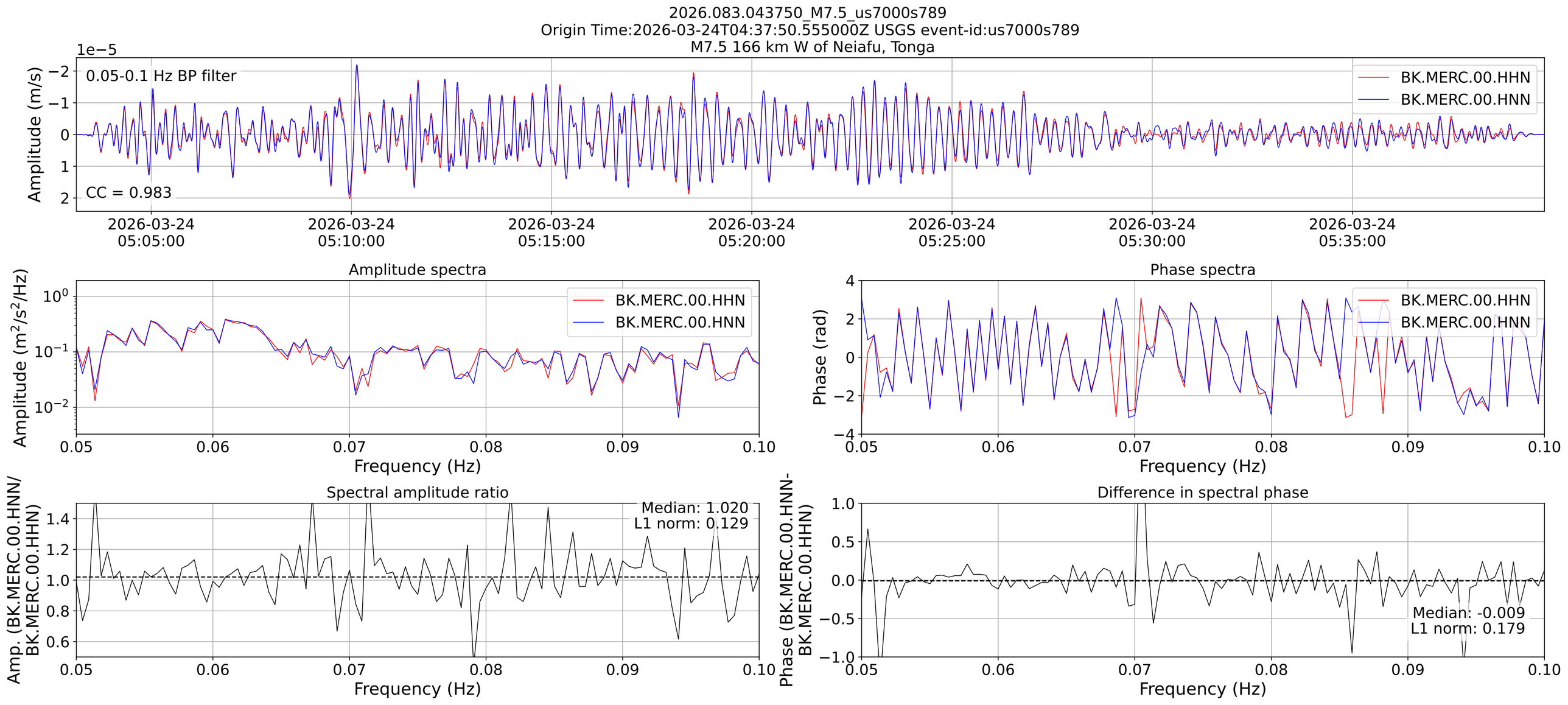

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.LTIB.00.HHZ
BK.LTIB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.LTIB.00.HNZ/ BK.LTIB.00.HHZ)
Median: 1.007
L1 norm: 0.251
Difference in spectral phase
Phase (BK.LTIB.00.HNZ- BK.LTIB.00.HHZ)
Median: 0.016
L1 norm: 0.241

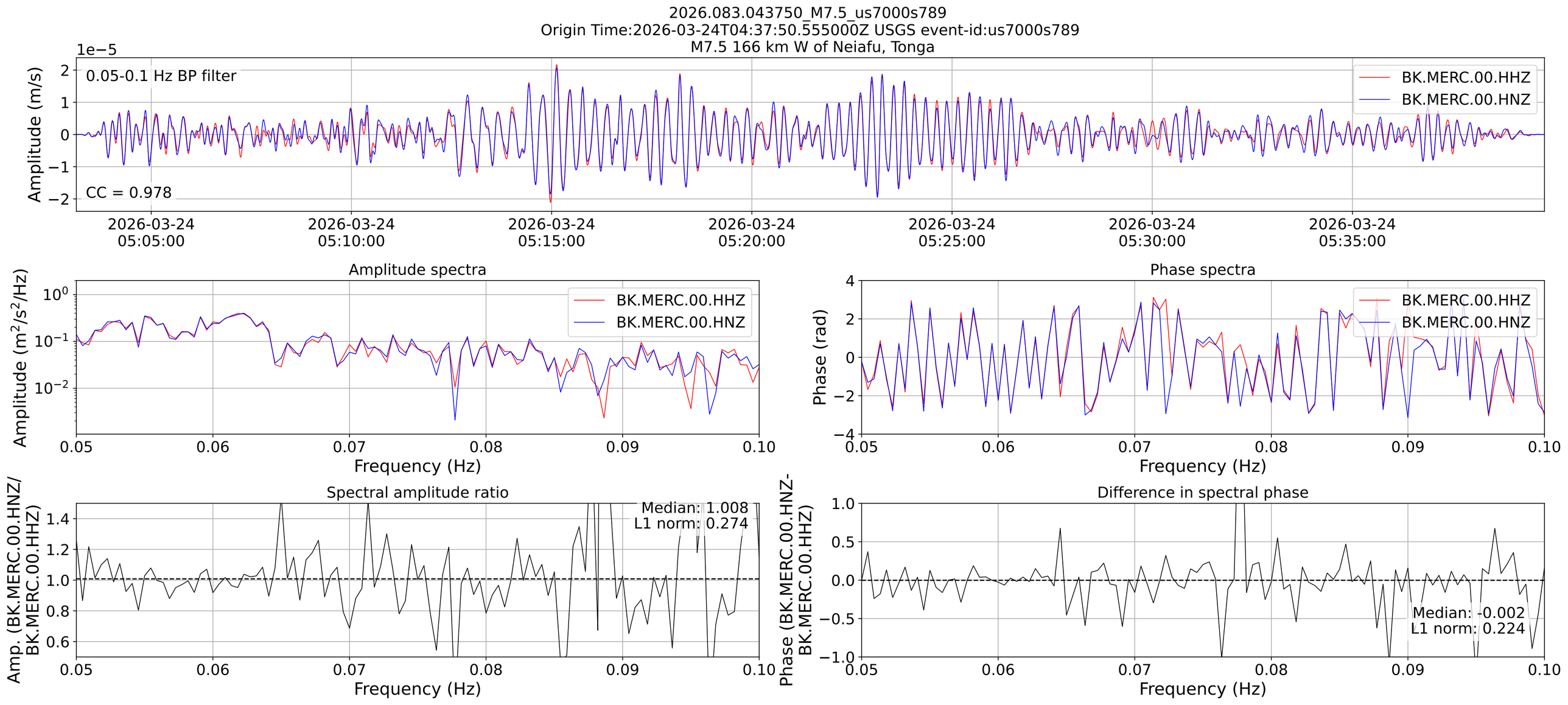

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.MCCM.00.HHE
BK.MCCM.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNE/ BK.MCCM.00.HHE)
Median: 1.021
L1 norm: 0.094
Difference in spectral phase
Phase (BK.MCCM.00.HNE- BK.MCCM.00.HHE)
Median: -0.021
L1 norm: 0.088

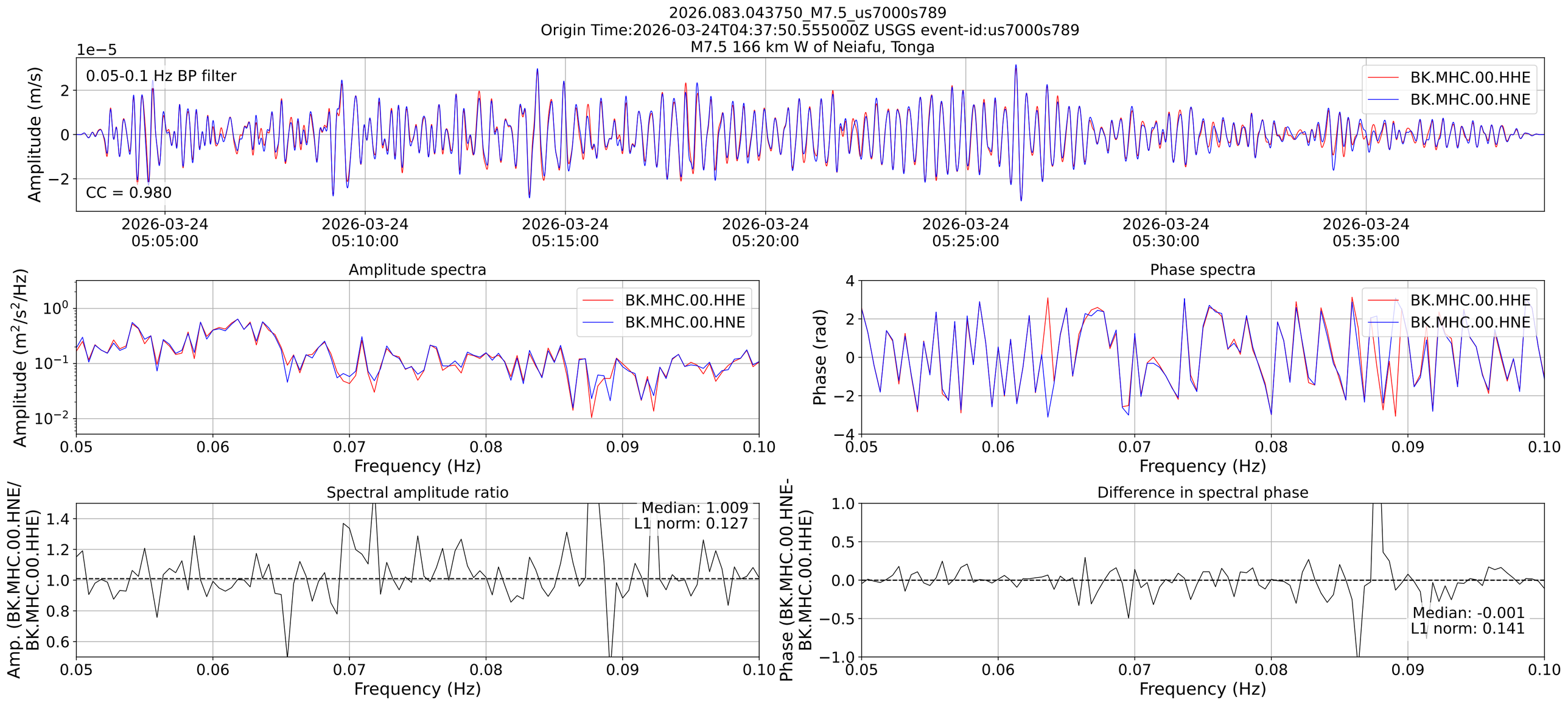

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.MCCM.00.HHN
BK.MCCM.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNN/ BK.MCCM.00.HHN)
Median: 1.036
L1 norm: 0.171
Difference in spectral phase
Phase (BK.MCCM.00.HNN- BK.MCCM.00.HHN)
Median: -0.015
L1 norm: 0.076

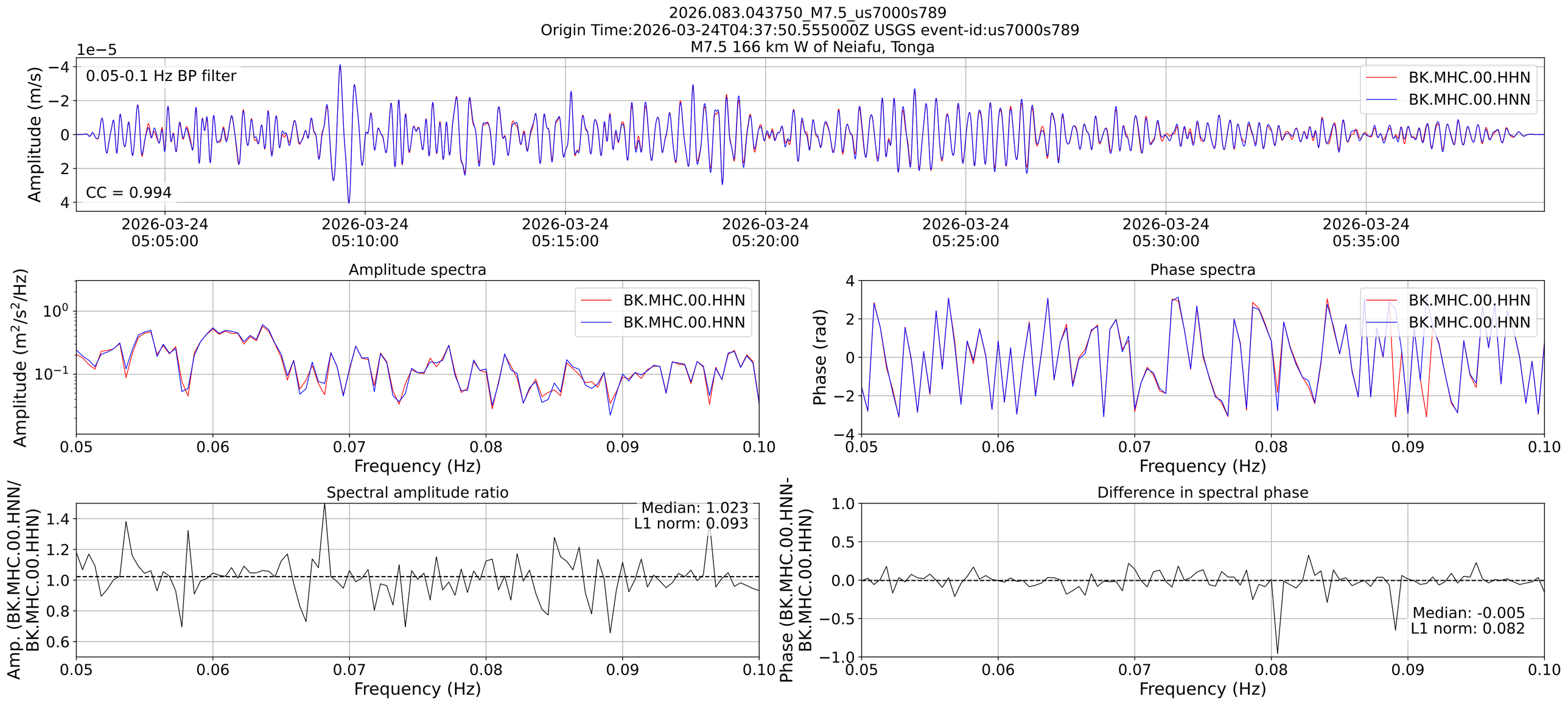

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
BK.MCCM.00.HHZ
BK.MCCM.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MCCM.00.HNZ/ BK.MCCM.00.HHZ)
Median: 1.026
L1 norm: 0.166
Difference in spectral phase
Phase (BK.MCCM.00.HNZ- BK.MCCM.00.HHZ)
Median: -0.006
L1 norm: 0.135

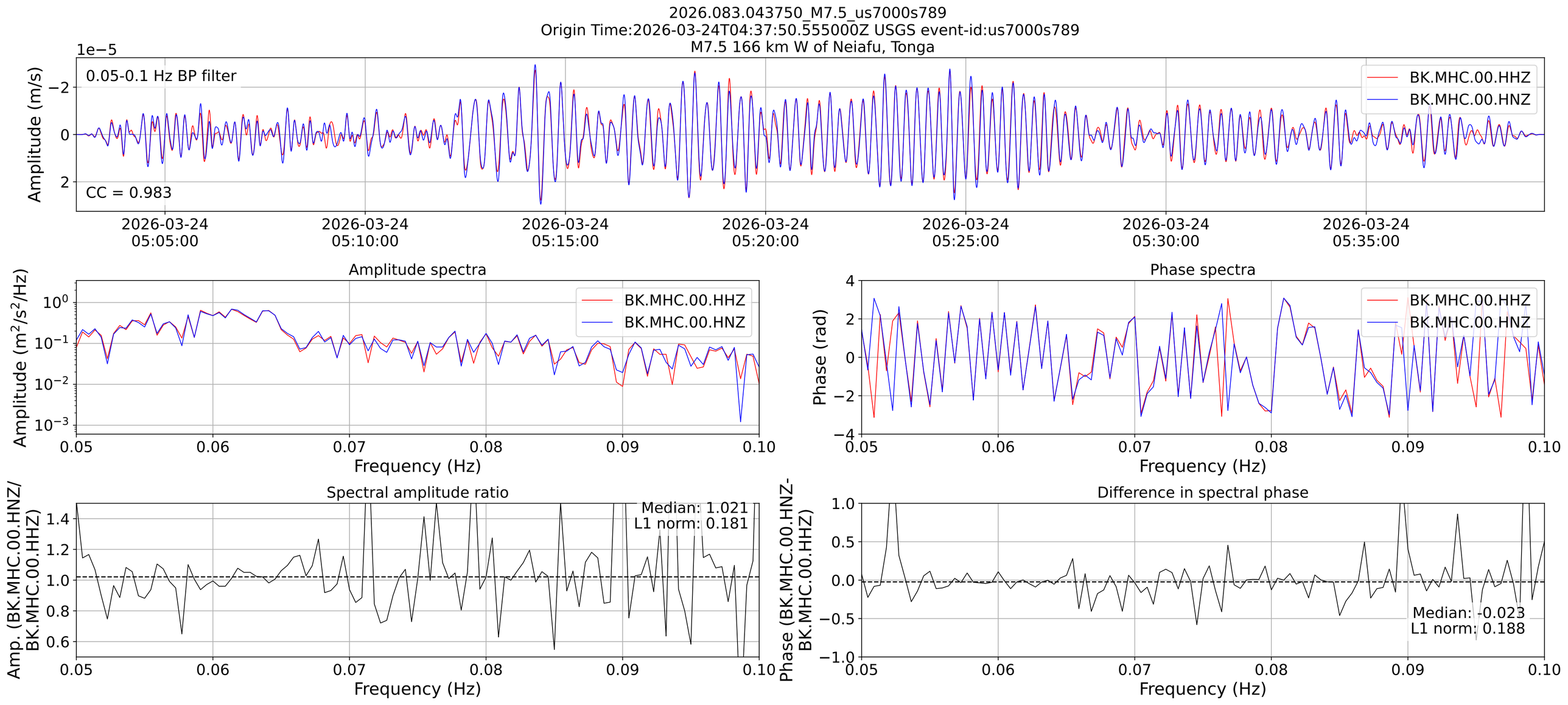

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.985
BK.MERC.00.HHE
BK.MERC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNE/ BK.MERC.00.HHE)
Median: 1.020
L1 norm: 0.199
Difference in spectral phase
Phase (BK.MERC.00.HNE- BK.MERC.00.HHE)
Median: -0.017
L1 norm: 0.198

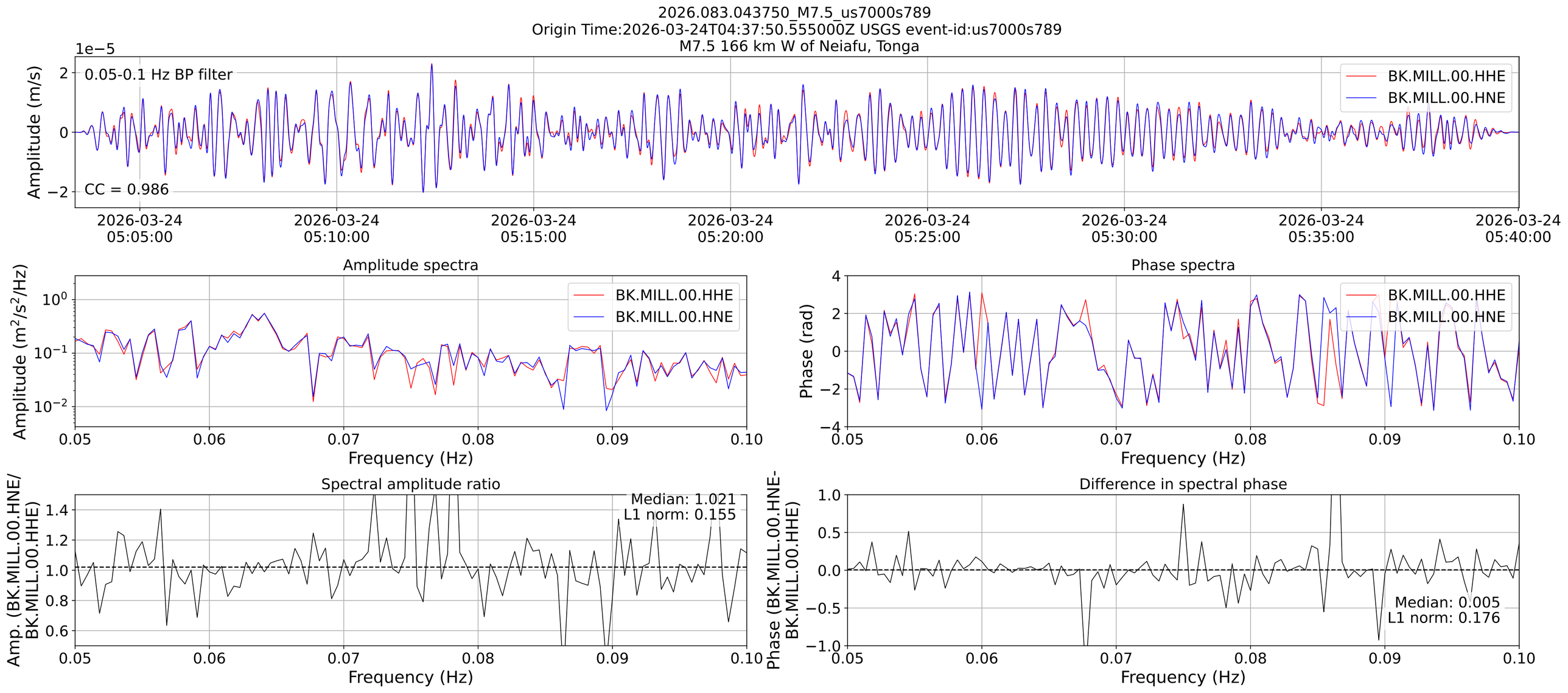

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.983
BK.MERC.00.HHN
BK.MERC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNN/ BK.MERC.00.HHN)
Median: 1.020
L1 norm: 0.129
Difference in spectral phase
Phase (BK.MERC.00.HNN- BK.MERC.00.HHN)
Median: -0.009
L1 norm: 0.179

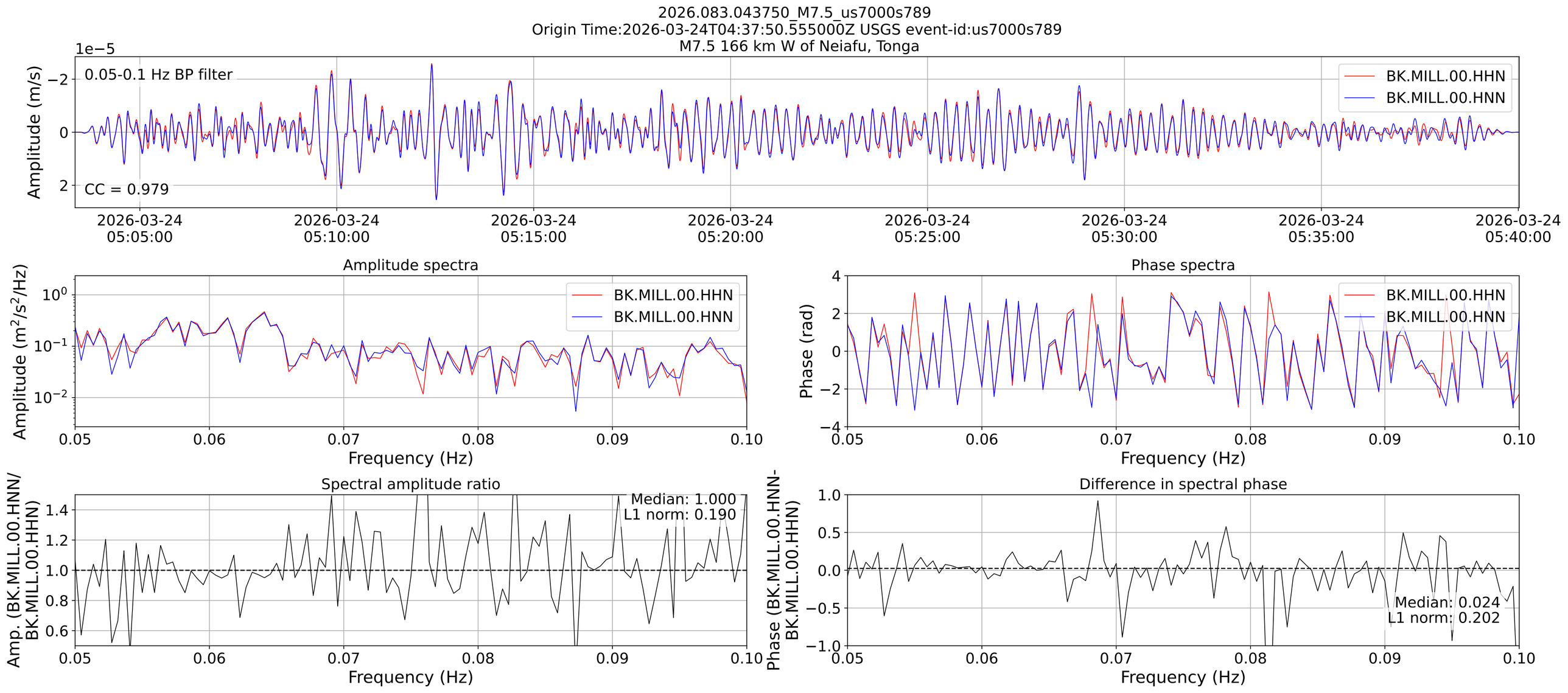

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.MERC.00.HHZ
BK.MERC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MERC.00.HNZ/ BK.MERC.00.HHZ)
Median: 1.008
L1 norm: 0.274
Difference in spectral phase
Phase (BK.MERC.00.HNZ- BK.MERC.00.HHZ)
Median: -0.002
L1 norm: 0.224

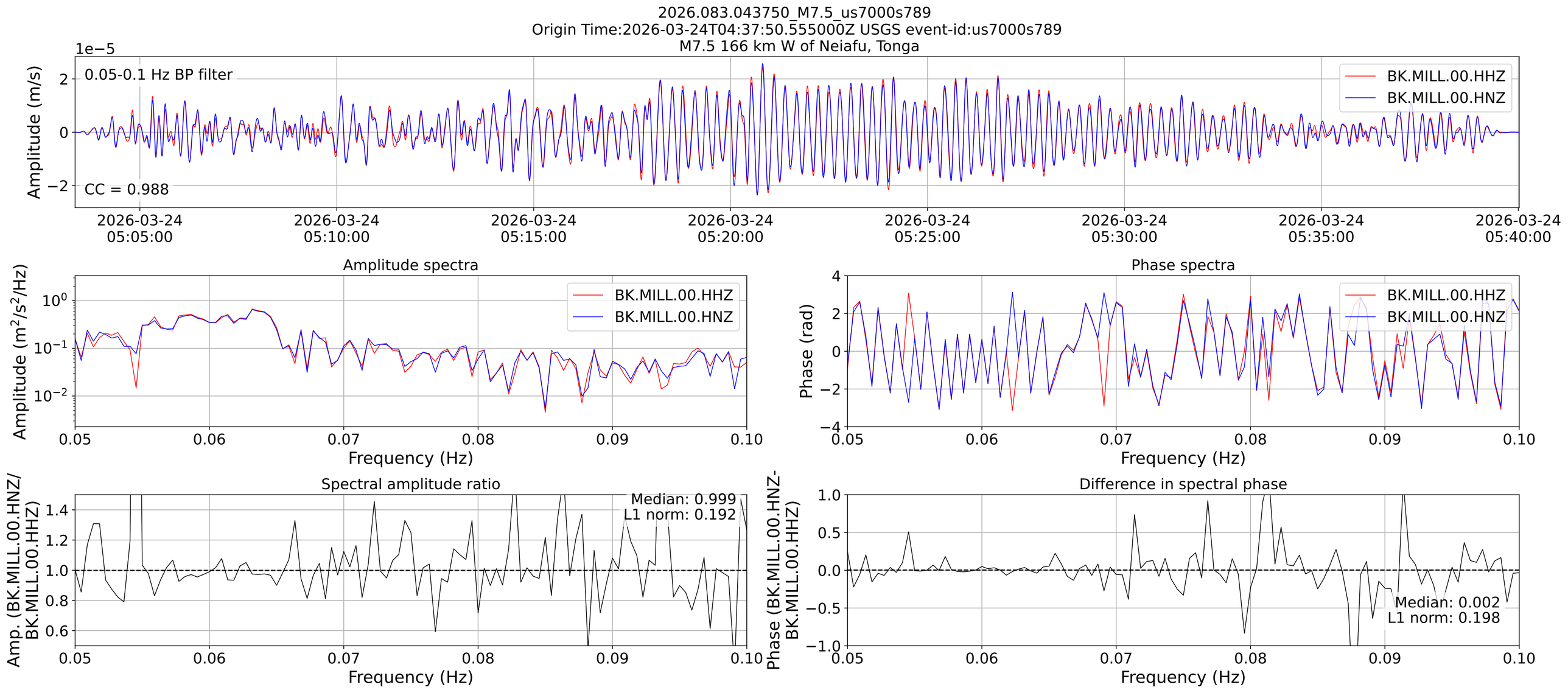

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.MHC.00.HHE
BK.MHC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNE/ BK.MHC.00.HHE)
Median: 1.009
L1 norm: 0.127
Difference in spectral phase
Phase (BK.MHC.00.HNE- BK.MHC.00.HHE)
Median: -0.001
L1 norm: 0.141

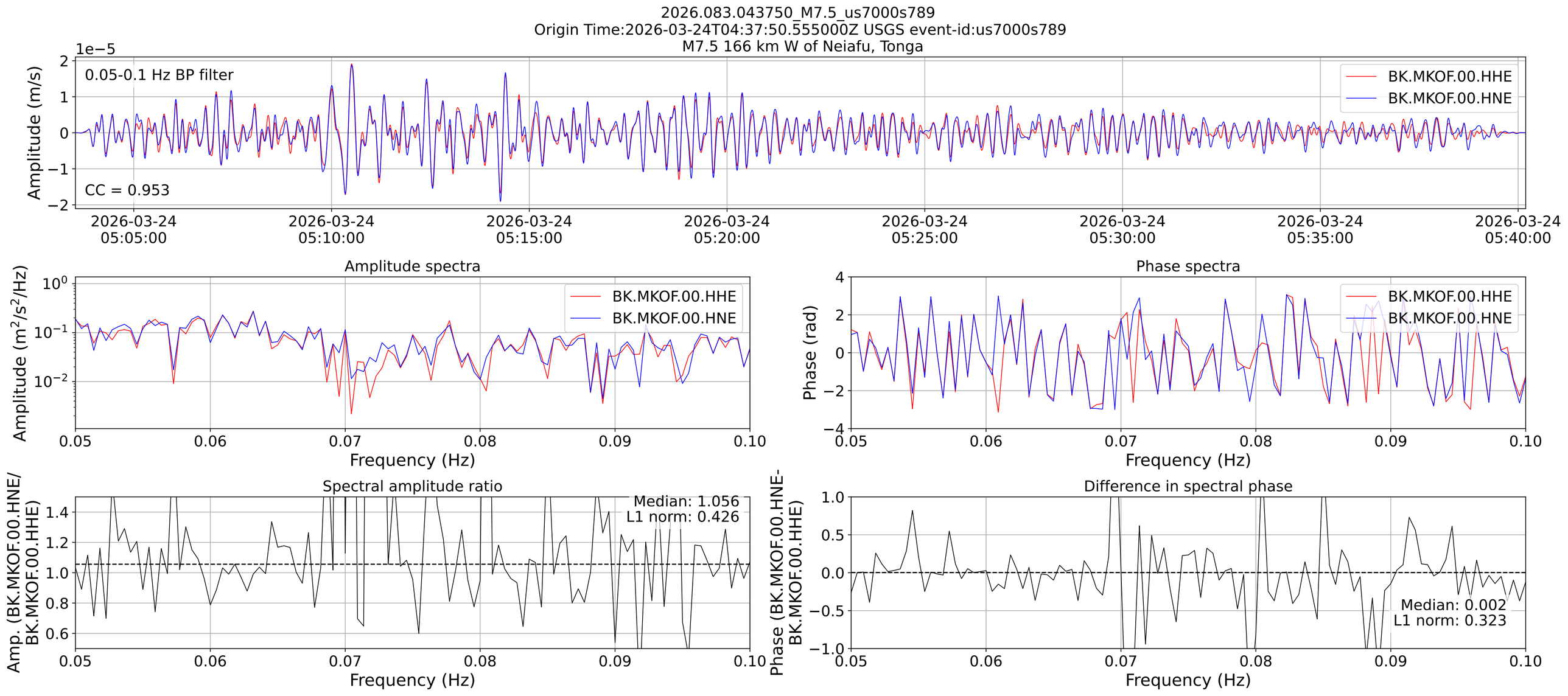

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.MHC.00.HHN
BK.MHC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNN/ BK.MHC.00.HHN)
Median: 1.023
L1 norm: 0.093
Difference in spectral phase
Phase (BK.MHC.00.HNN- BK.MHC.00.HHN)
Median: -0.005
L1 norm: 0.082

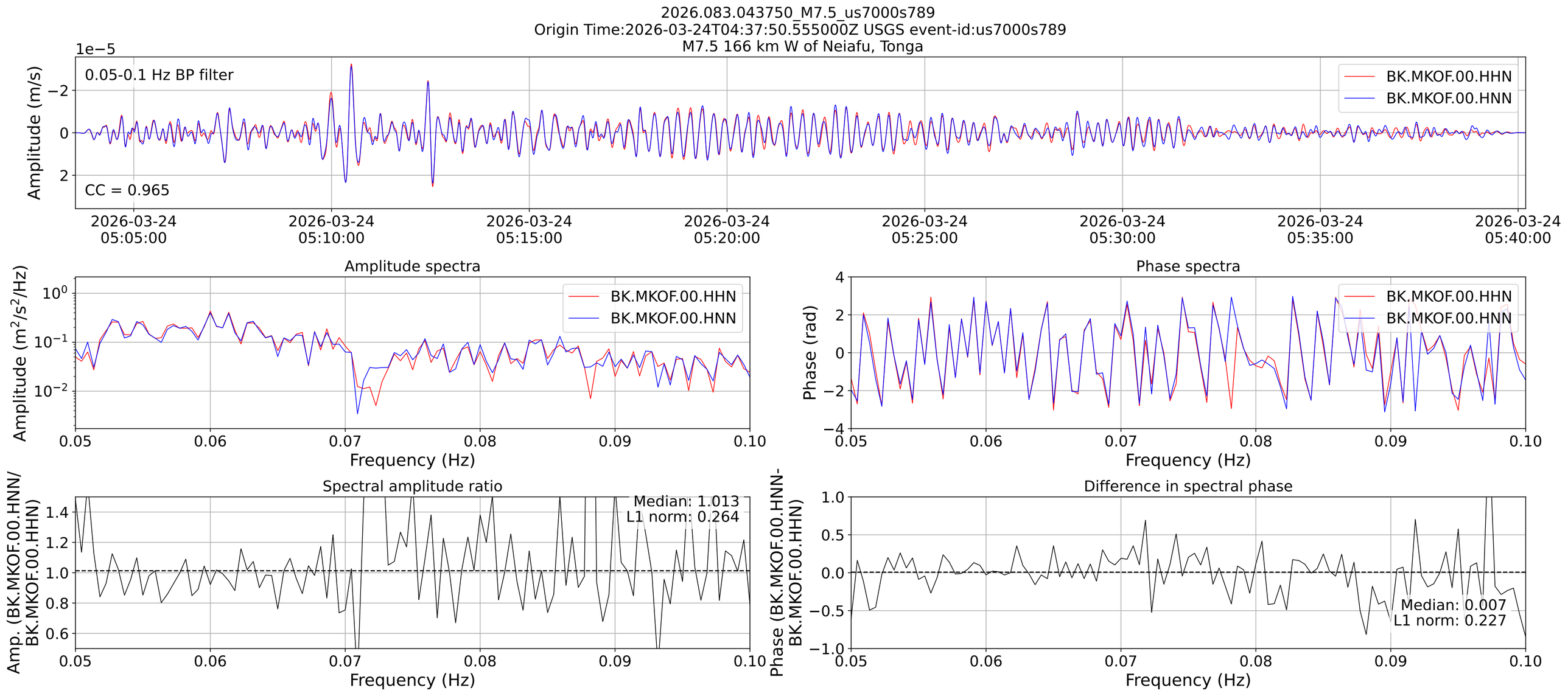

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.MHC.00.HHZ
BK.MHC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MHC.00.HNZ/ BK.MHC.00.HHZ)
Median: 1.021
L1 norm: 0.181
Difference in spectral phase
Phase (BK.MHC.00.HNZ-BK.MHC.00.HHZ)
Median: -0.023
L1 norm: 0.188

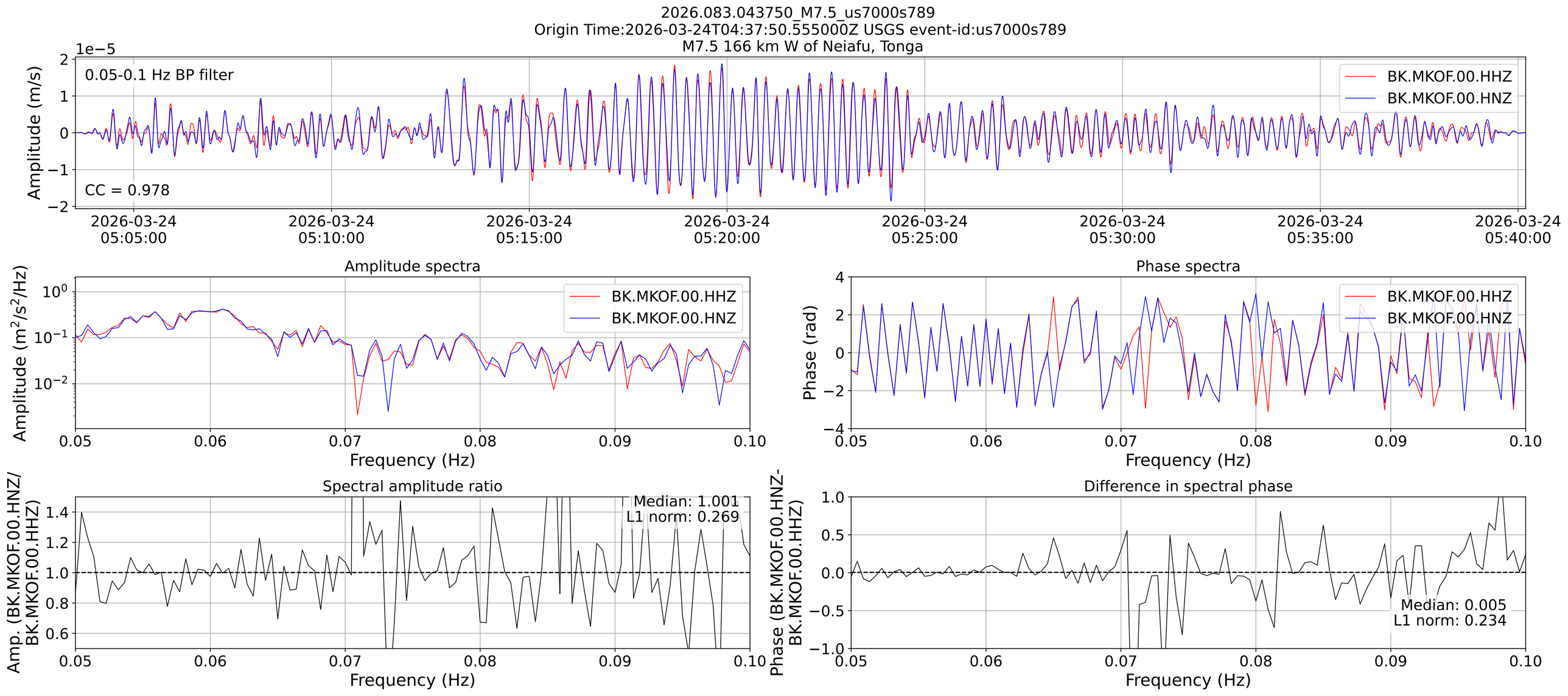

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.MILL.00.HHE
BK.MILL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNE/ BK.MILL.00.HHE)
Median: 1.021
L1 norm: 0.155
Difference in spectral phase
Phase (BK.MILL.00.HNE- BK.MILL.00.HHE)
Median: 0.005
L1 norm: 0.176

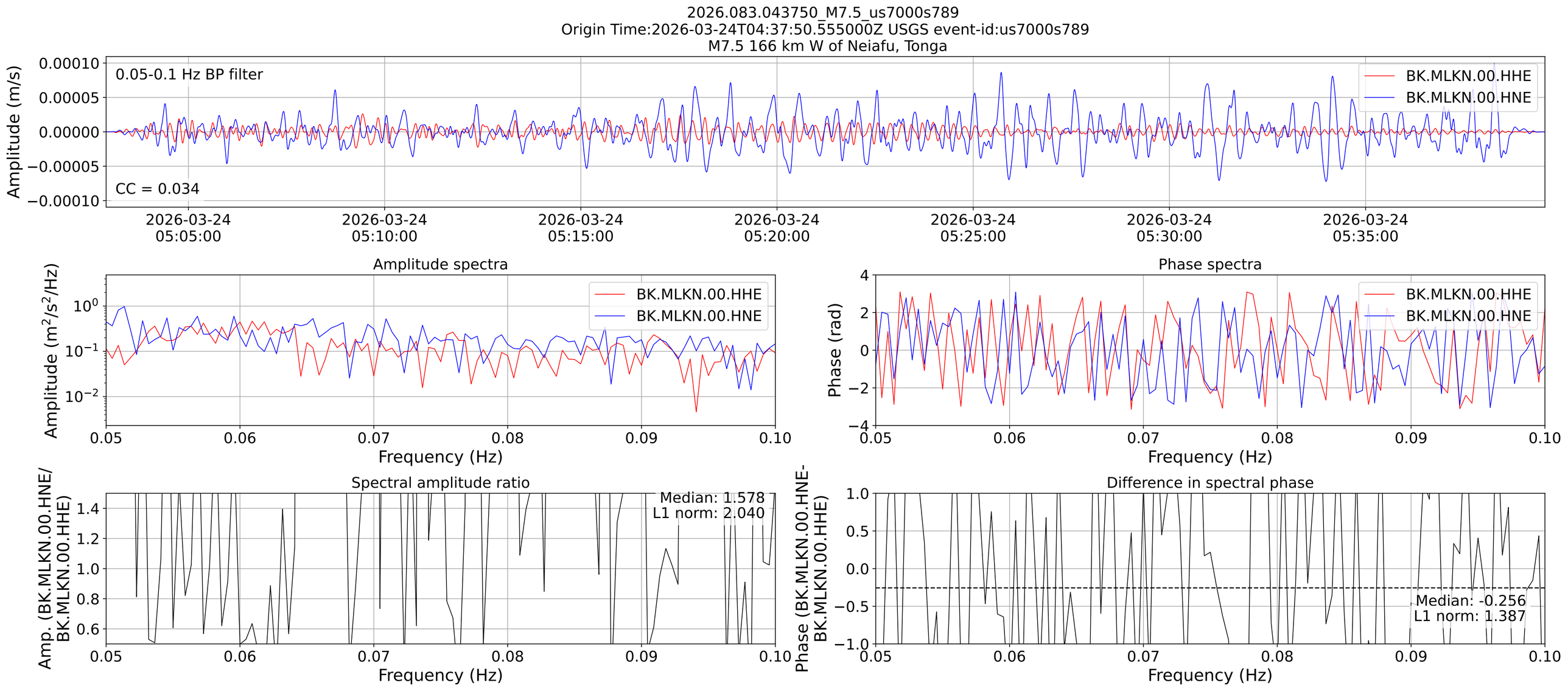

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.MILL.00.HHN
BK.MILL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNN/ BK.MILL.00.HHN)
Median: 1.000
L1 norm: 0.190
Difference in spectral phase
Phase (BK.MILL.00.HNN- BK.MILL.00.HHN)
Median: 0.024
L1 norm: 0.202

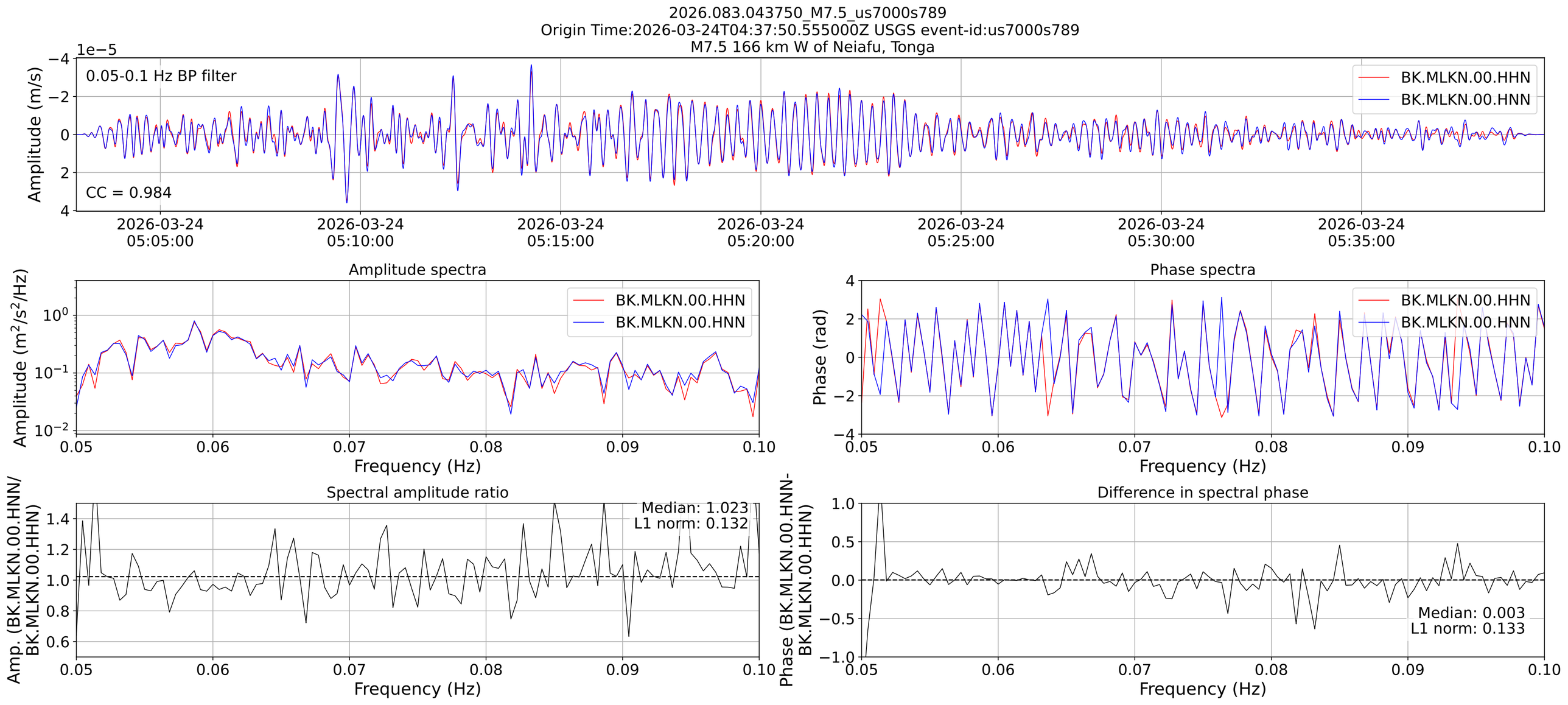

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.MILL.00.HHZ
BK.MILL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MILL.00.HNZ/ BK.MILL.00.HHZ)
Median: 0.999
L1 norm: 0.192
Difference in spectral phase
Phase (BK.MILL.00.HNZ- BK.MILL.00.HHZ)
Median: 0.002
L1 norm: 0.198

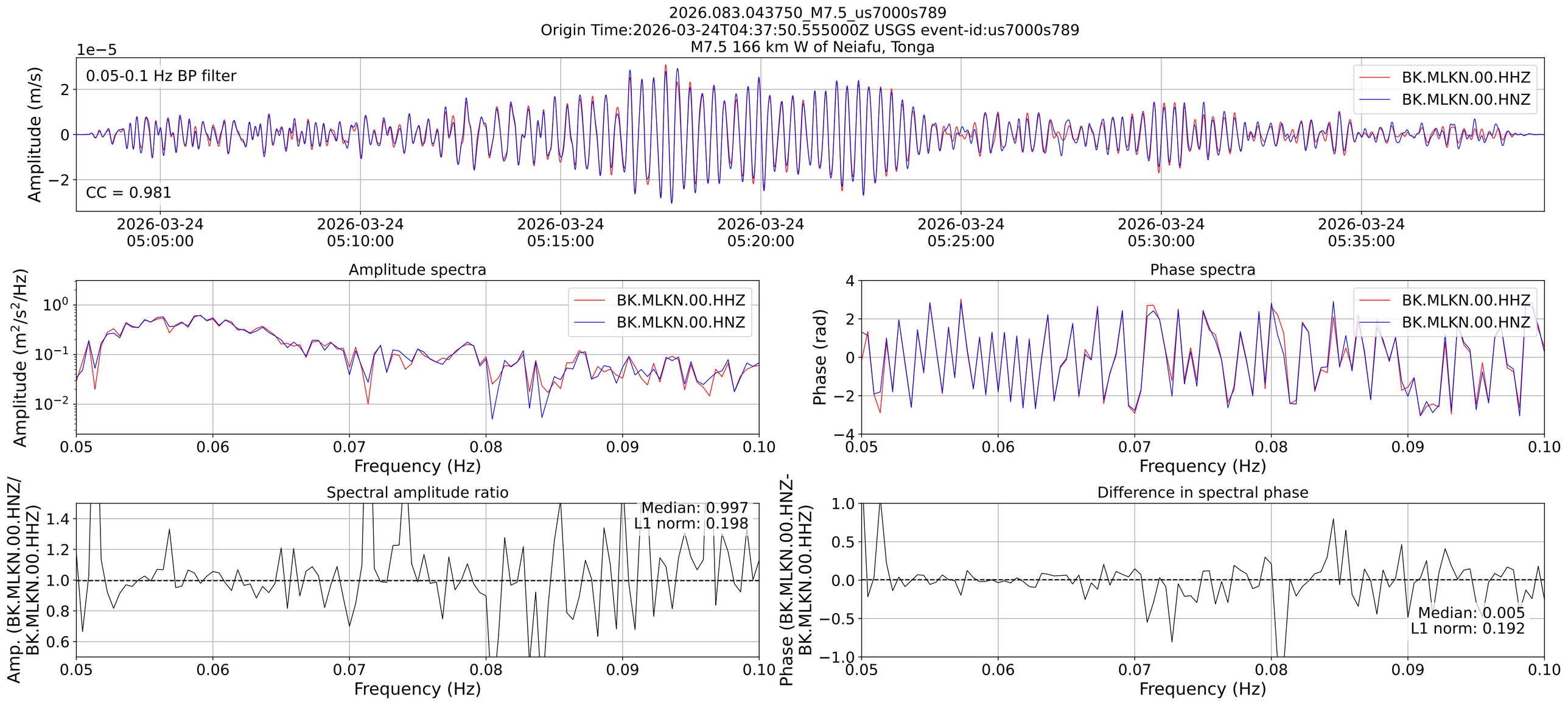

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.953
Amplitude (m/s)
BK.MKOF.00.HHE
BK.MKOF.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MKOF.00.HNE/ BK.MKOF.00.HHE)
Median: 1.056
L1 norm: 0.426
Difference in spectral phase
Phase (BK.MKOF.00.HNE- BK.MKOF.00.HHE)
Median: 0.002
L1 norm: 0.323

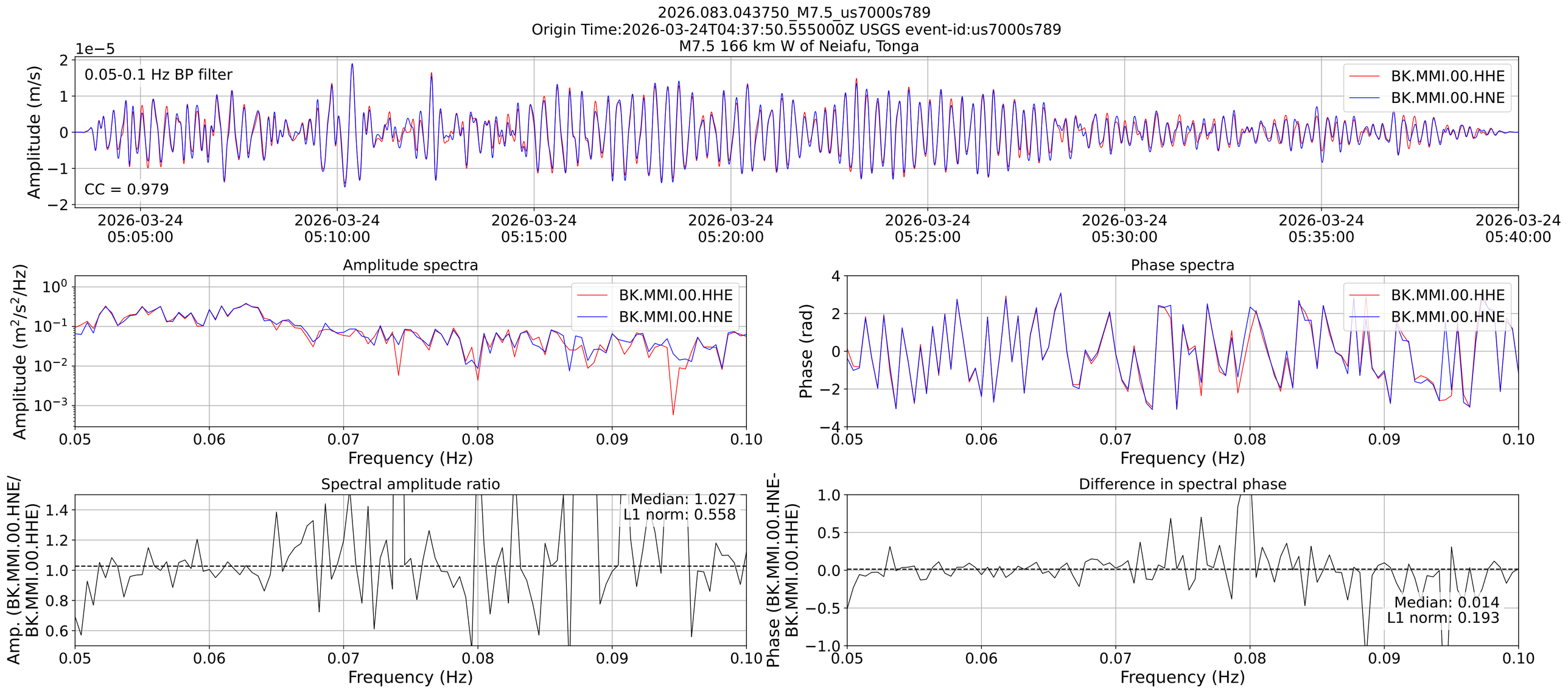

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.965
BK.MKOF.00.HHN
BK.MKOF.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MKOF.00.HNN/ BK.MKOF.00.HHN)
Median: 1.013
L1 norm: 0.264
Difference in spectral phase
Phase (BK.MKOF.00.HNN- BK.MKOF.00.HHN)
Median: 0.007
L1 norm: 0.227

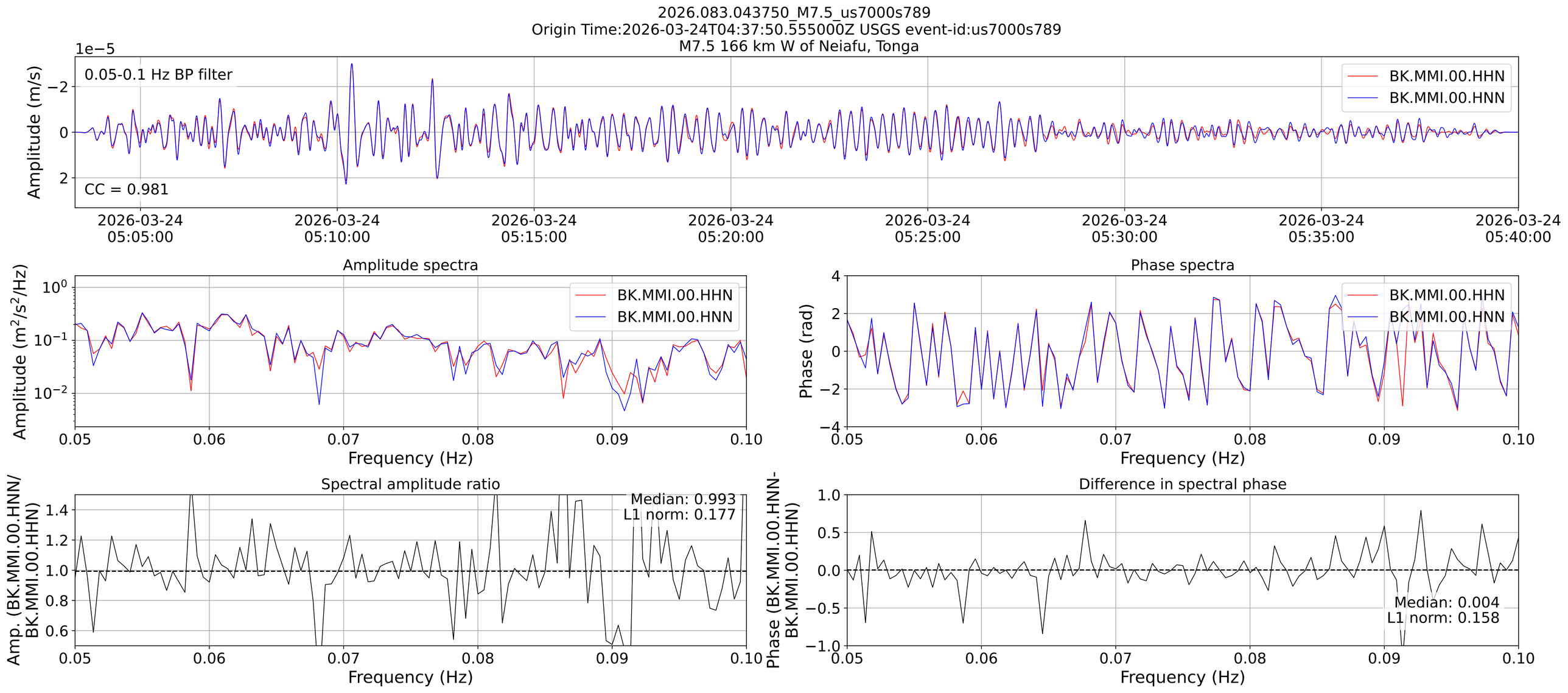

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.MKOF.00.HHZ
BK.MKOF.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MKOF.00.HNZ/ BK.MKOF.00.HHZ)
Median: 1.001
L1 norm: 0.269
Difference in spectral phase
Phase (BK.MKOF.00.HNZ- BK.MKOF.00.HHZ)
Median: 0.005
L1 norm: 0.234

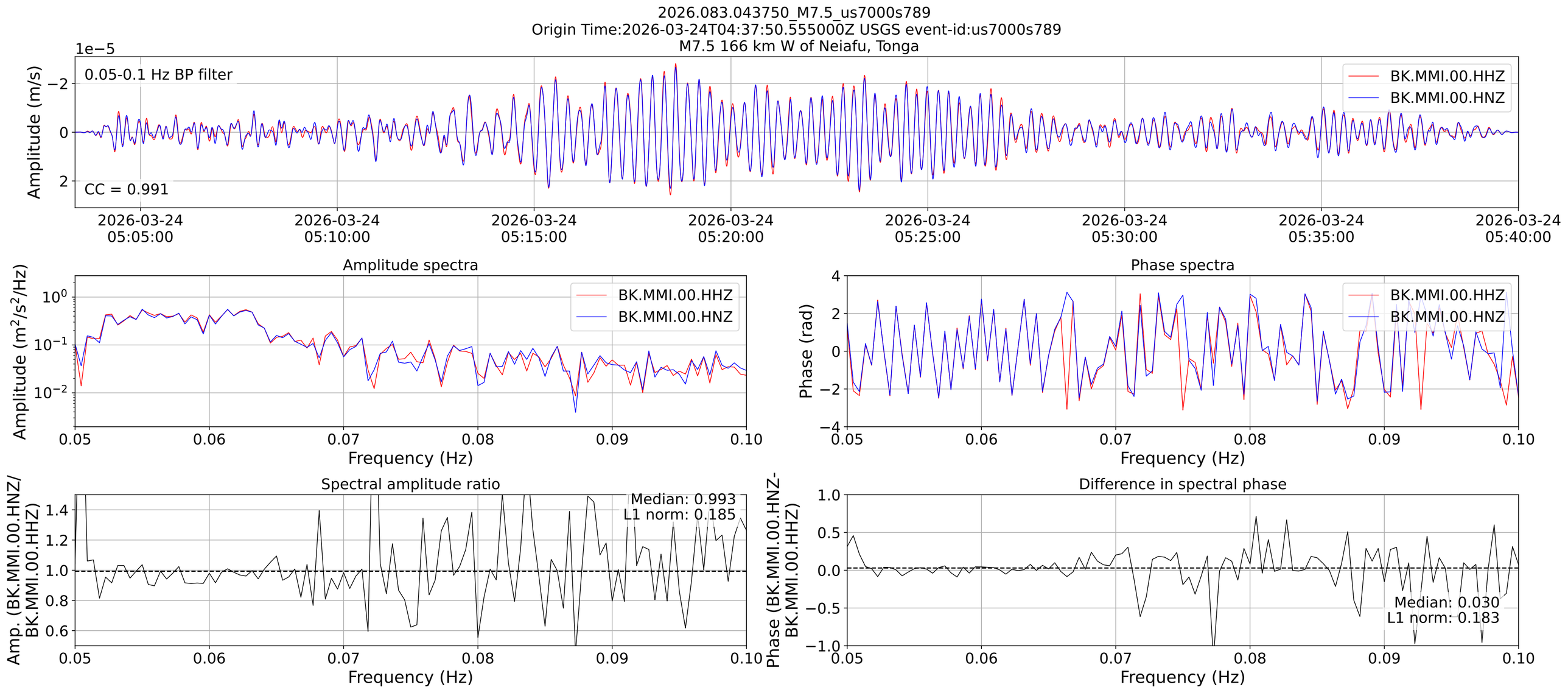

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.034
BK.MLKN.00.HHE
BK.MLKN.00.HNE
Amplitude (m/s)
0.00010
0.00005
0.00000
−0.00005
−0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNE/ BK.MLKN.00.HHE)
Median: 1.578
L1 norm: 2.040
Difference in spectral phase
Phase (BK.MLKN.00.HNE- BK.MLKN.00.HHE)
Median: -0.256
L1 norm: 1.387

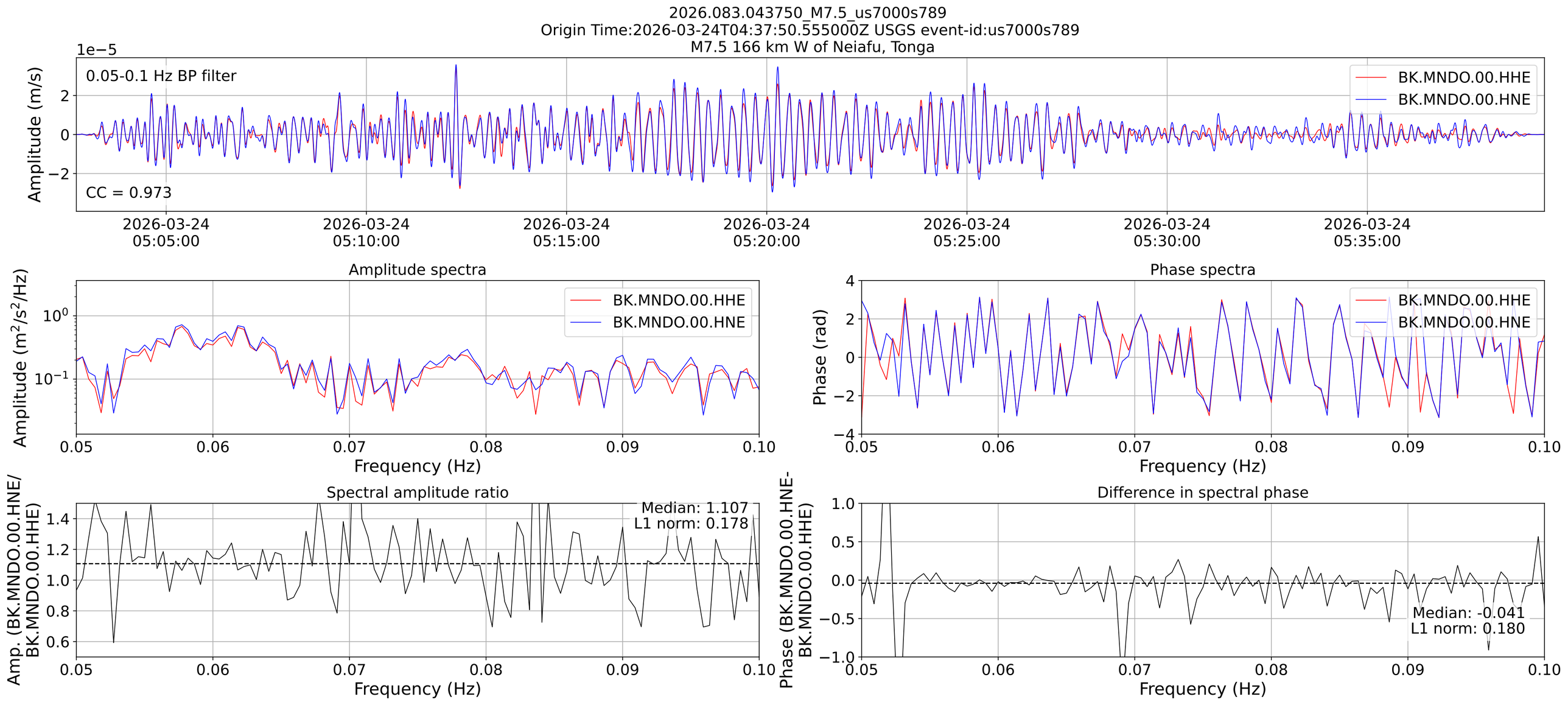

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
BK.MLKN.00.HHN
BK.MLKN.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNN/ BK.MLKN.00.HHN)
Median: 1.023
L1 norm: 0.132
Difference in spectral phase
Phase (BK.MLKN.00.HNN- BK.MLKN.00.HHN)
Median: 0.003
L1 norm: 0.133

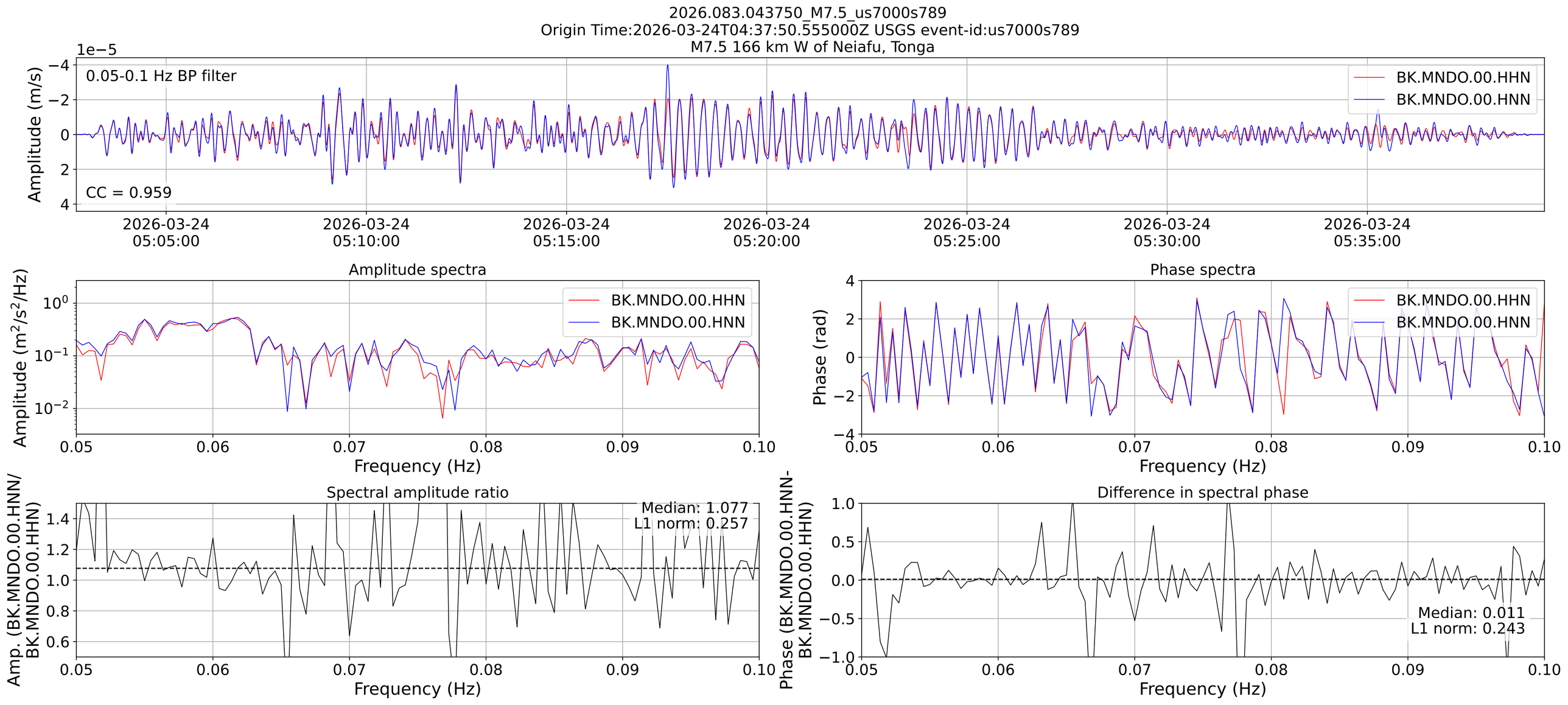

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.MLKN.00.HHZ
BK.MLKN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MLKN.00.HNZ/ BK.MLKN.00.HHZ)
Median: 0.997
L1 norm: 0.198
Difference in spectral phase
Phase (BK.MLKN.00.HNZ-BK.MLKN.00.HHZ)
Median: 0.005
L1 norm: 0.192

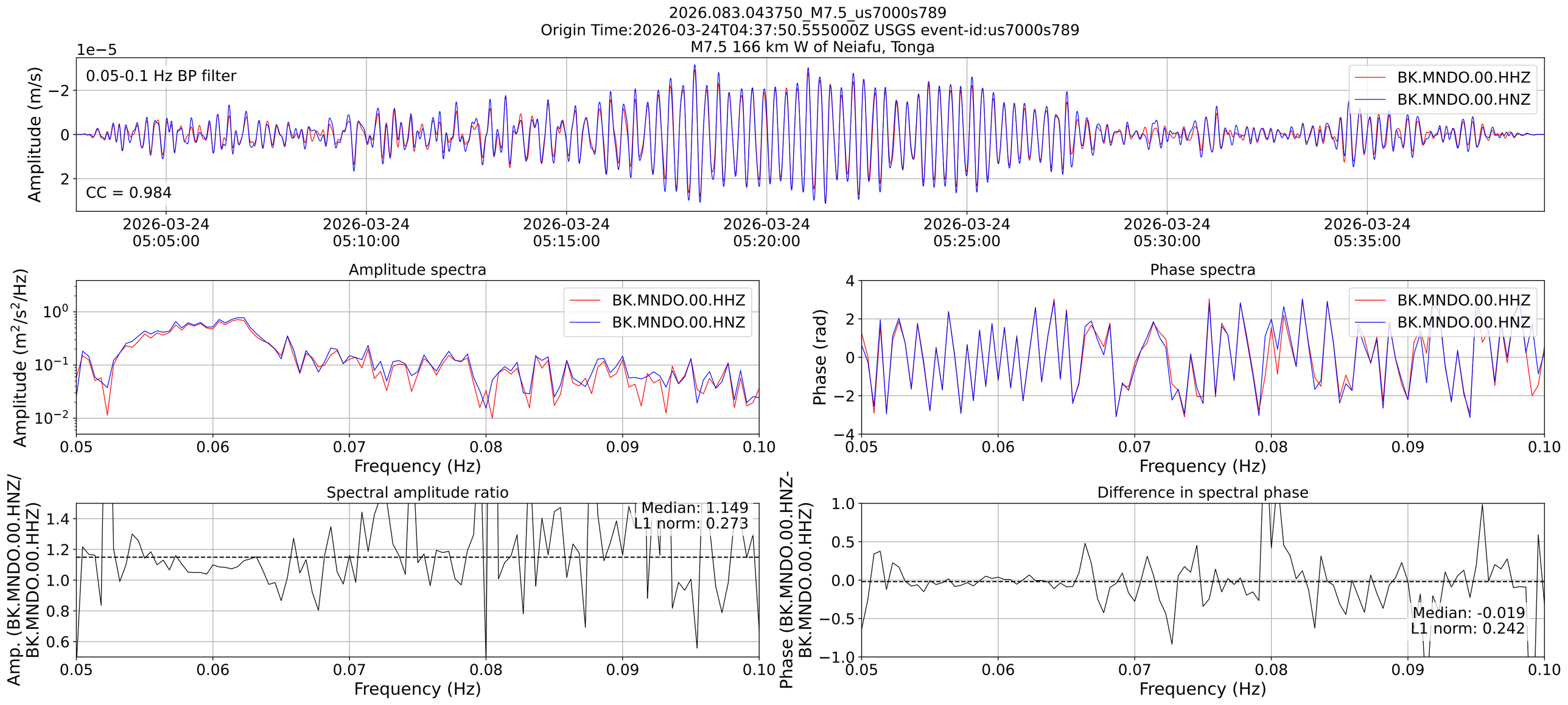

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.MMI.00.HHE
BK.MMI.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNE/ BK.MMI.00.HHE)
Median: 1.027
L1 norm: 0.558
Difference in spectral phase
Phase (BK.MMI.00.HNE- BK.MMI.00.HHE)
Median: 0.014
L1 norm: 0.193

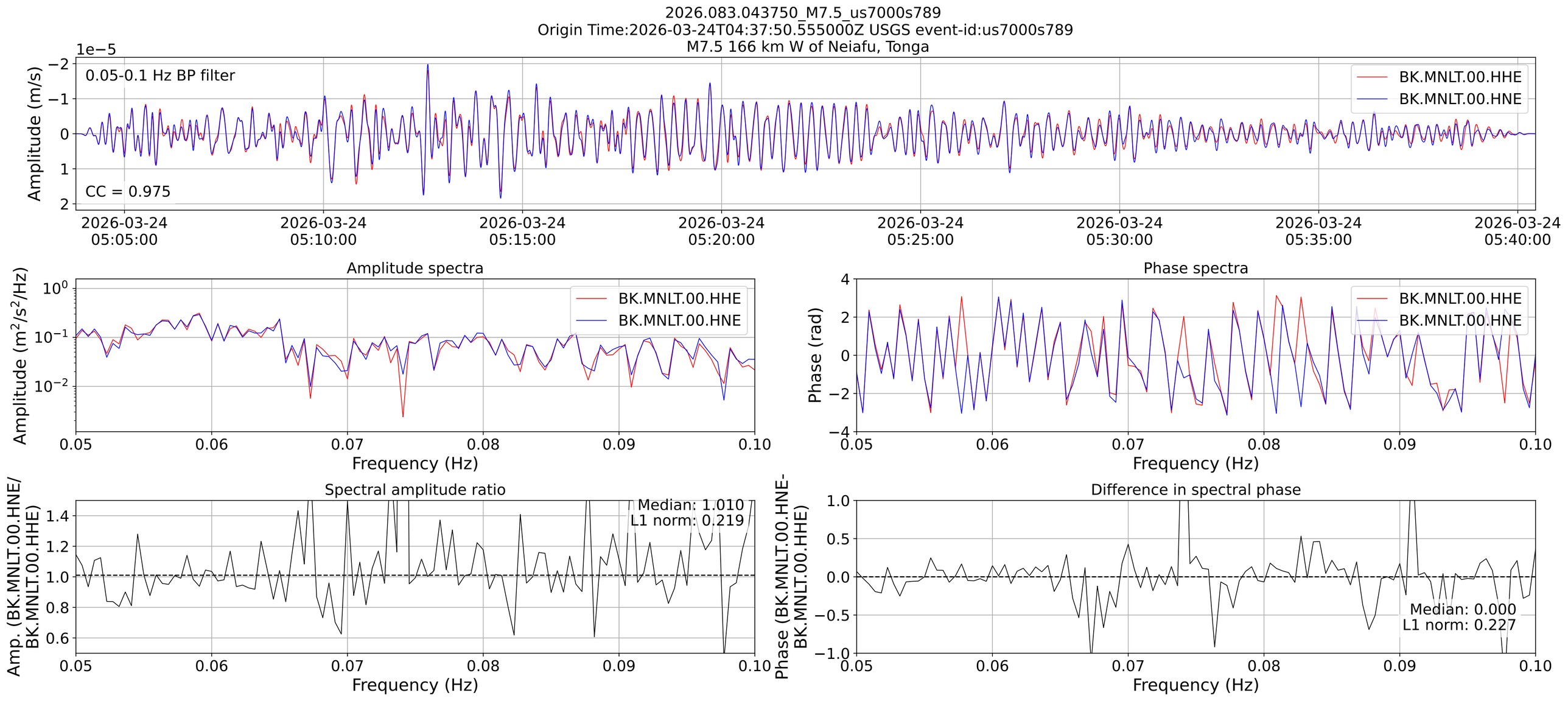

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.MMI.00.HHN
BK.MMI.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNN/ BK.MMI.00.HHN)
Median: 0.993
L1 norm: 0.177
Difference in spectral phase
Phase (BK.MMI.00.HNN- BK.MMI.00.HHN)
Median: 0.004
L1 norm: 0.158

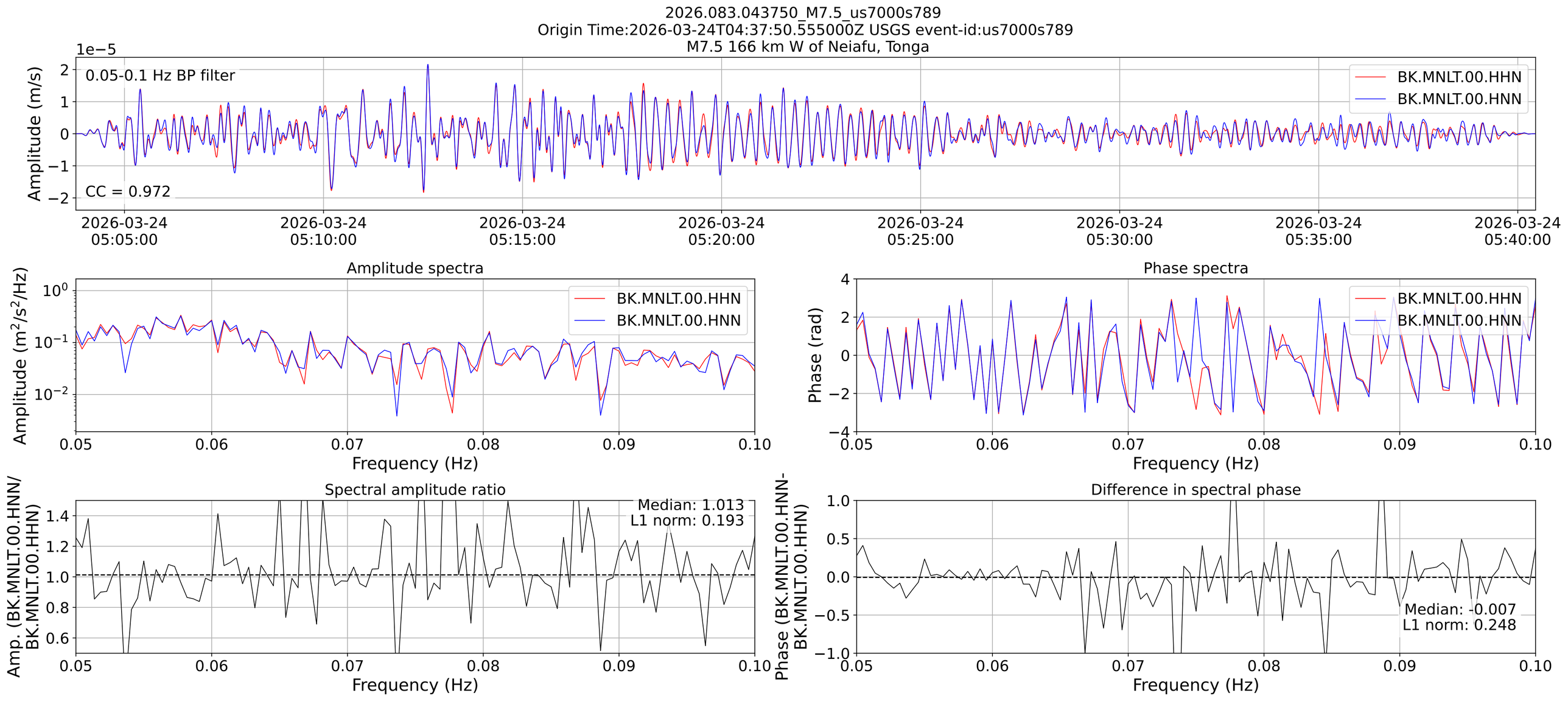

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.MMI.00.HHZ
BK.MMI.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MMI.00.HNZ/ BK.MMI.00.HHZ)
Median: 0.993
L1 norm: 0.185
Difference in spectral phase
Phase (BK.MMI.00.HNZ- BK.MMI.00.HHZ)
Median: 0.030
L1 norm: 0.183

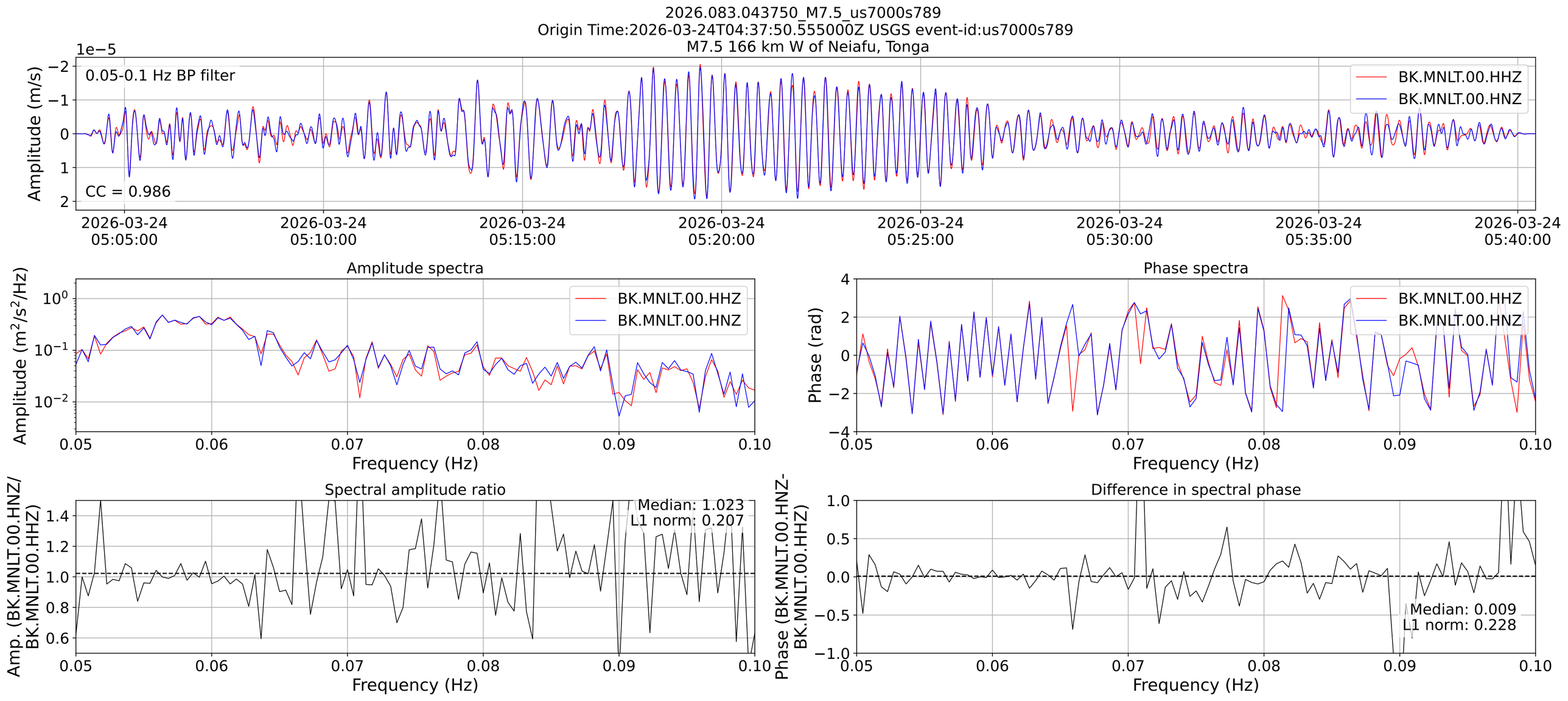

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.973
Amplitude (m/s)
BK.MNDO.00.HHE
BK.MNDO.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNDO.00.HNE/ BK.MNDO.00.HHE)
Median: 1.107
L1 norm: 0.178
Difference in spectral phase
Phase (BK.MNDO.00.HNE- BK.MNDO.00.HHE)
Median: -0.041
L1 norm: 0.180

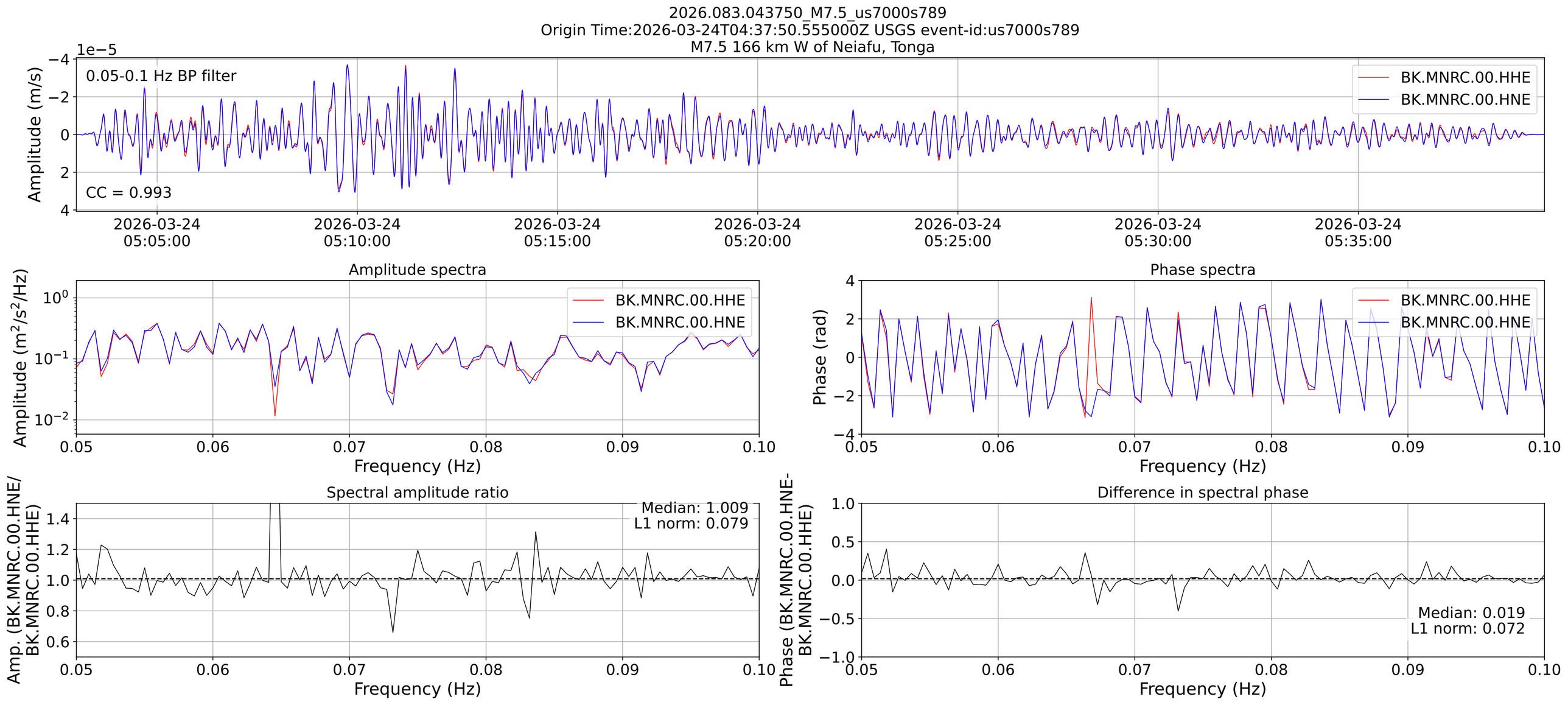

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.959
BK.MNDO.00.HHN
BK.MNDO.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNDO.00.HNN/ BK.MNDO.00.HHN)
Median: 1.077
L1 norm: 0.257
Difference in spectral phase
Phase (BK.MNDO.00.HNN- BK.MNDO.00.HHN)
Median: 0.011
L1 norm: 0.243

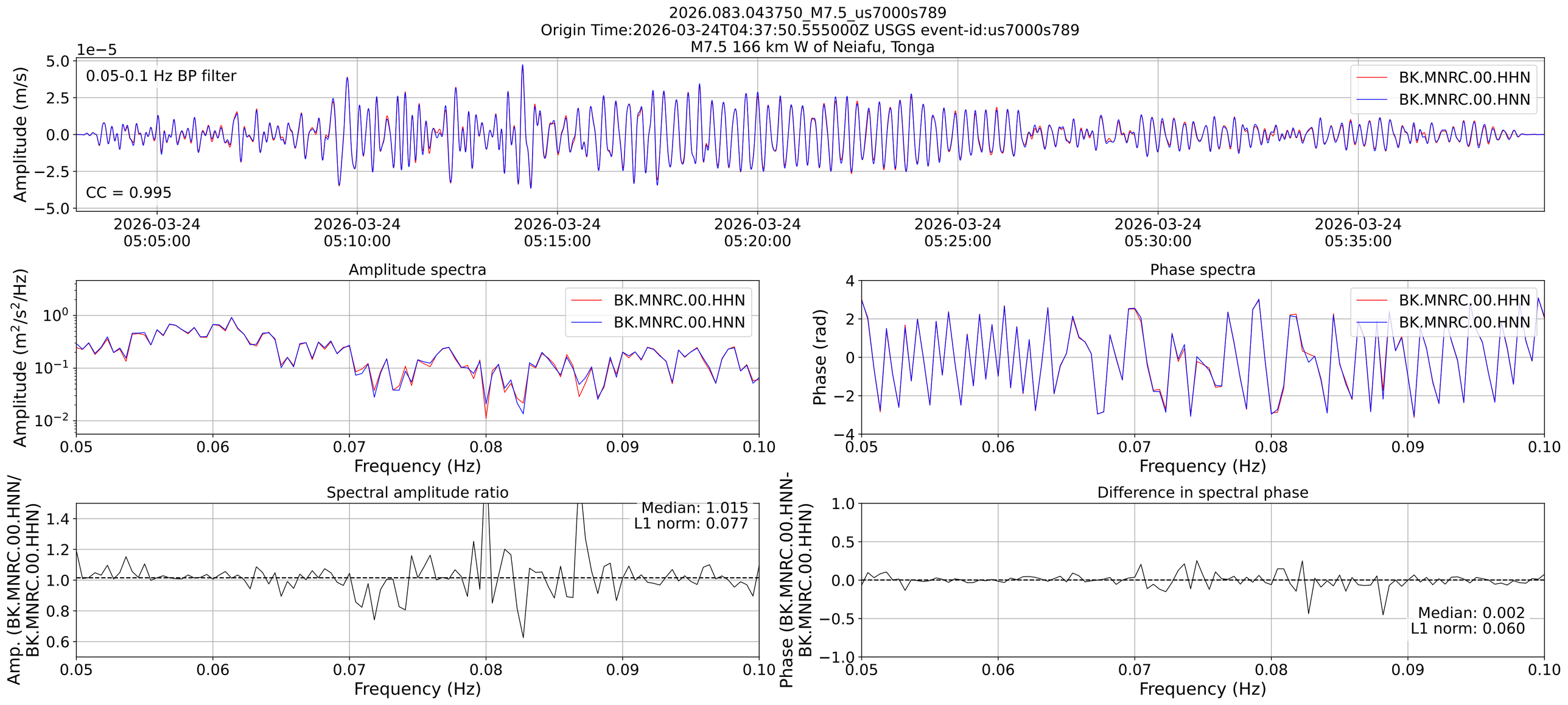

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.MNDO.00.HHZ
BK.MNDO.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNDO.00.HNZ/ BK.MNDO.00.HHZ)
Median: 1.149
L1 norm: 0.273
Difference in spectral phase
Phase (BK.MNDO.00.HNZ- BK.MNDO.00.HHZ)
Median: -0.019
L1 norm: 0.242

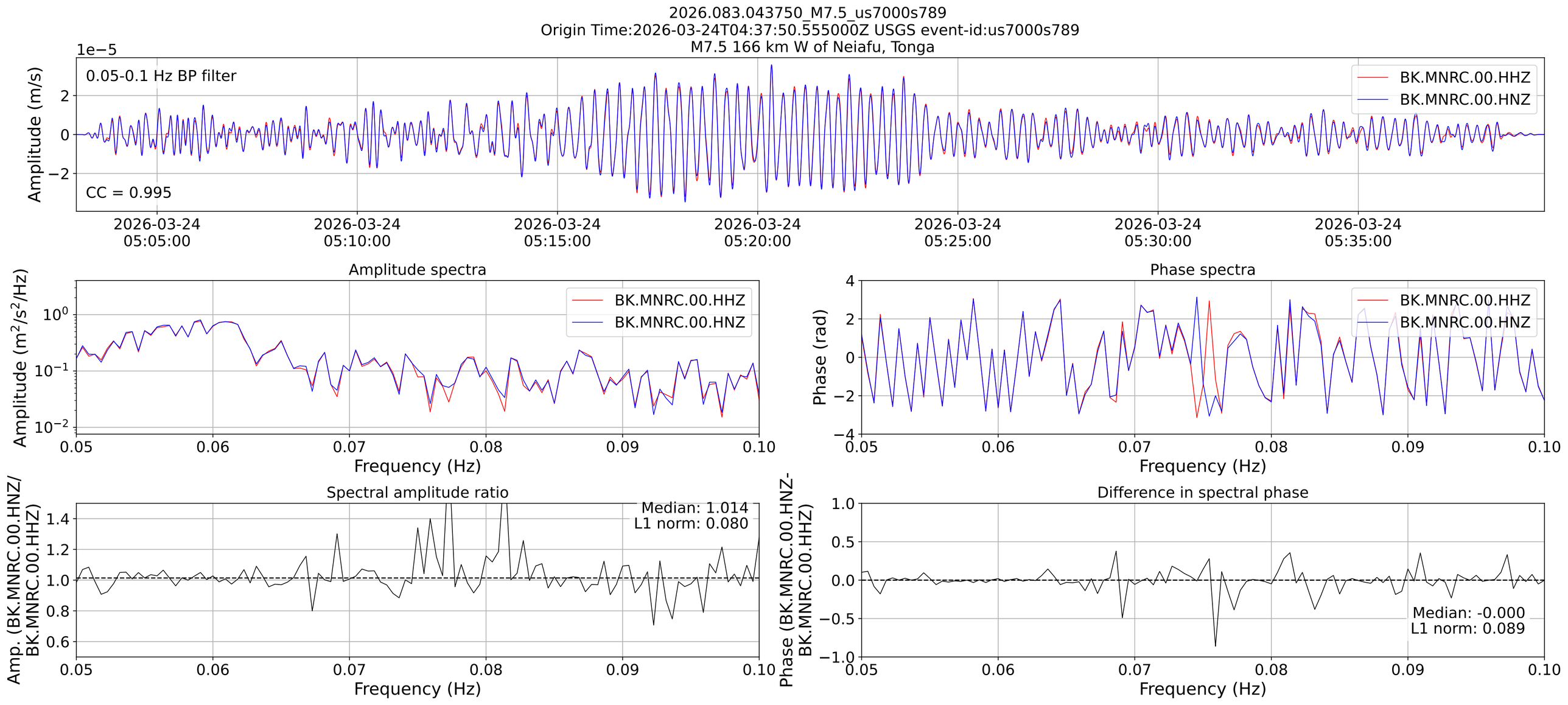

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.MNLT.00.HHE
BK.MNLT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.010
L1 norm: 0.219
Amp. (BK.MNLT.00.HNE/ BK.MNLT.00.HHE)
Difference in spectral phase
Phase (BK.MNLT.00.HNE- BK.MNLT.00.HHE)
Median: 0.000
L1 norm: 0.227

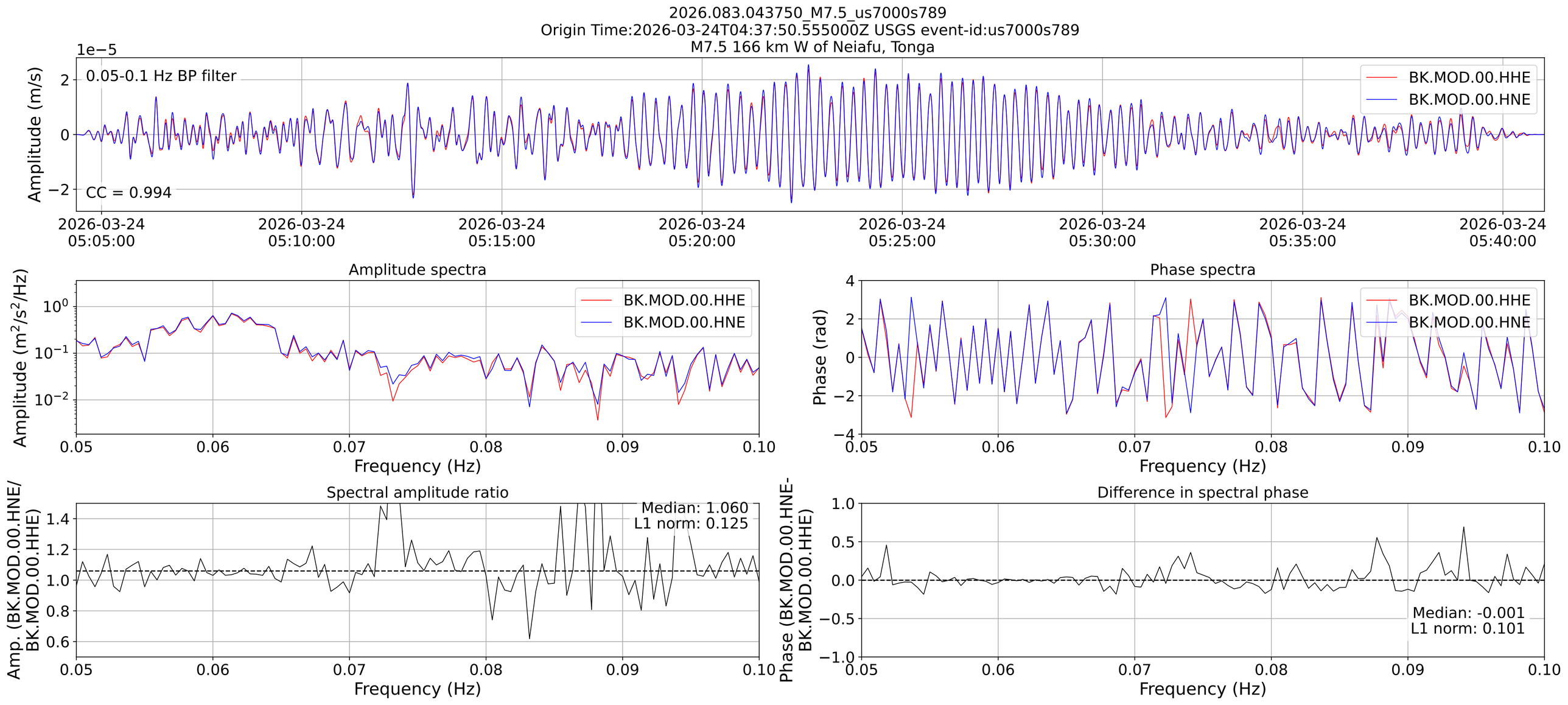

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.972
Amplitude (m/s)
BK.MNLT.00.HHN
BK.MNLT.00.HHN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNLT.00.HNN/ BK.MNLT.00.HHN)
Median: 1.013
L1 norm: 0.193
Difference in spectral phase
Phase (BK.MNLT.00.HNN- BK.MNLT.00.HHN)
Median: -0.007
L1 norm: 0.248

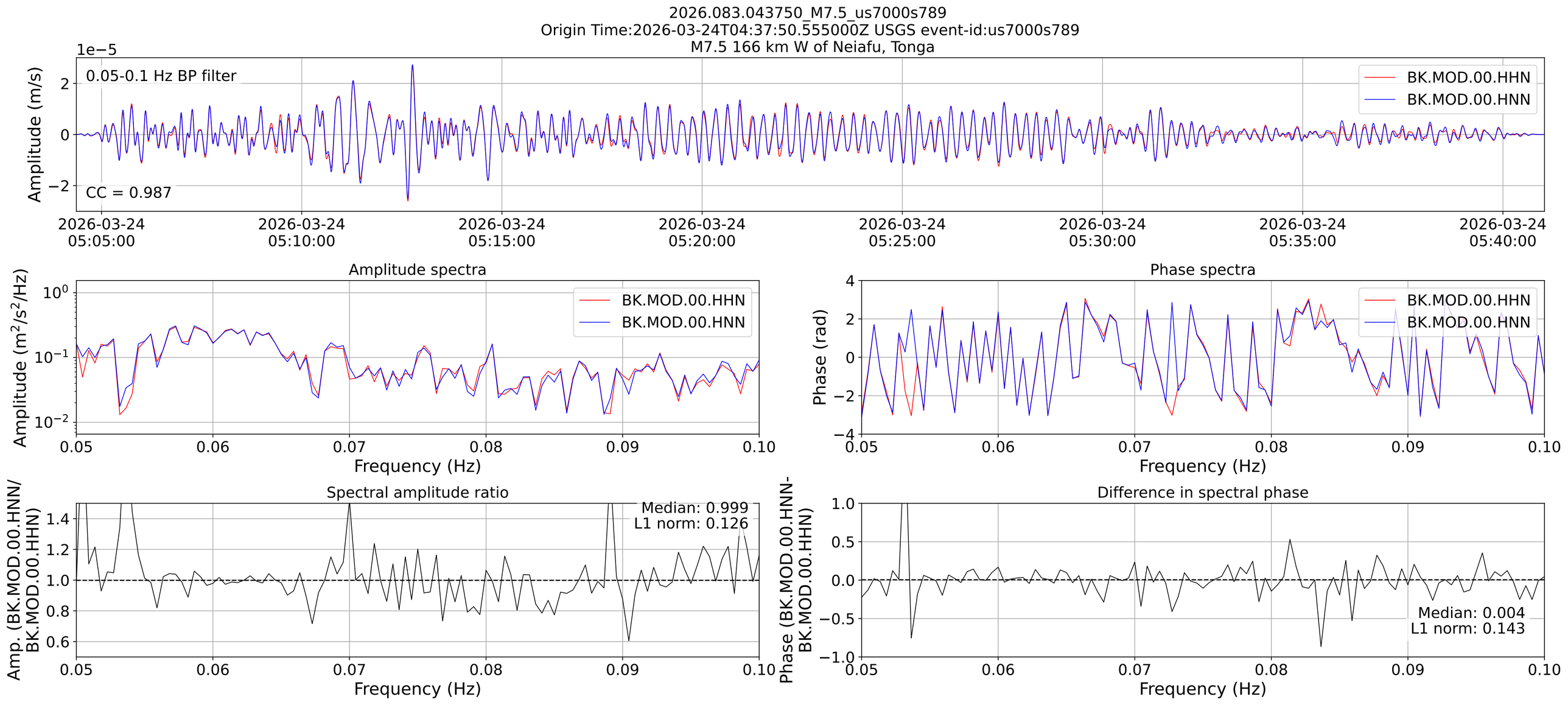

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.986
BK.MNLT.00.HHZ
BK.MNLT.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNLT.00.HNZ/ BK.MNLT.00.HHZ)
Median: 1.023
L1 norm: 0.207
Difference in spectral phase
Phase (BK.MNLT.00.HNZ- BK.MNLT.00.HHZ)
Median: 0.009
L1 norm: 0.228

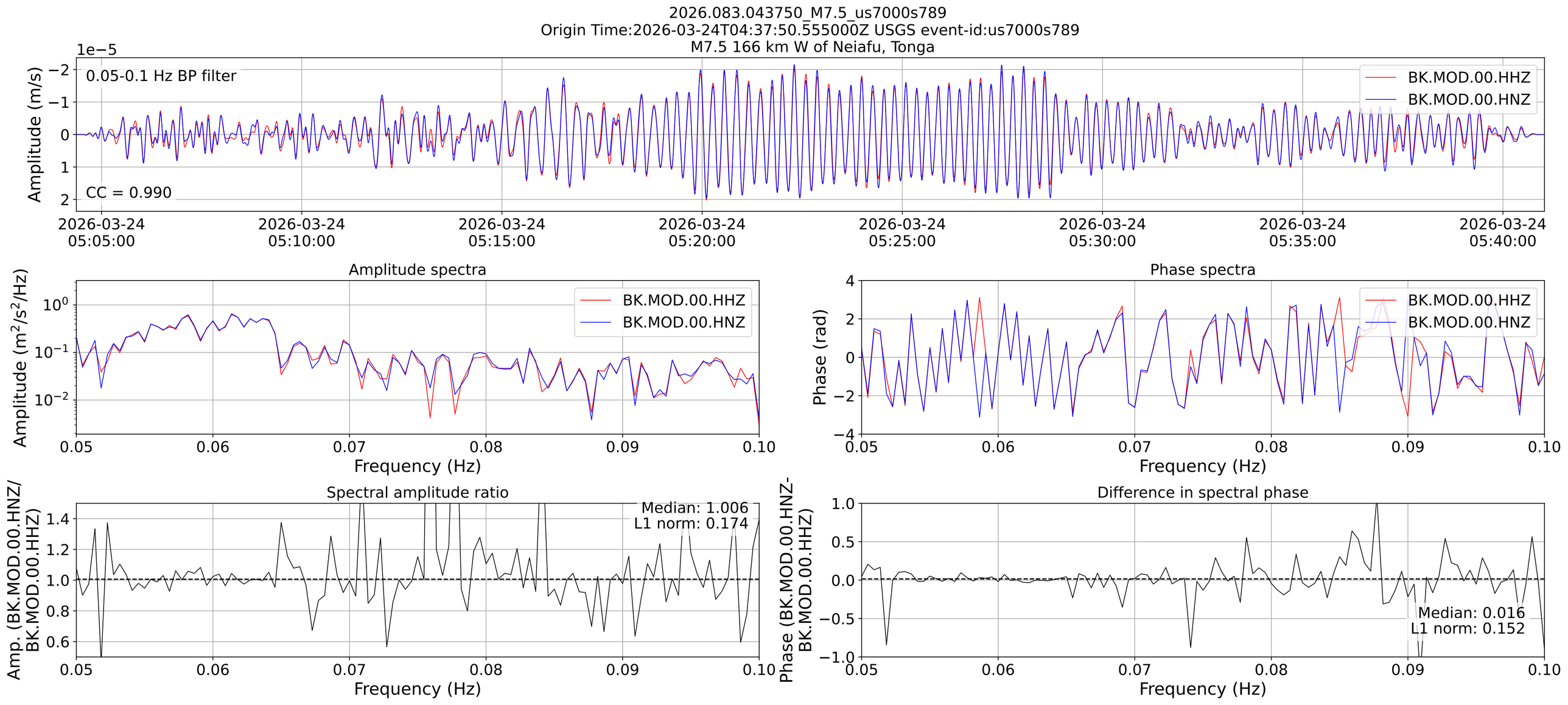

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
BK.MNRC.00.HHE
BK.MNRC.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNE/ BK.MNRC.00.HHE)
Median: 1.009
L1 norm: 0.079
Difference in spectral phase
Phase (BK.MNRC.00.HNE- BK.MNRC.00.HHE)
Median: 0.019
L1 norm: 0.072

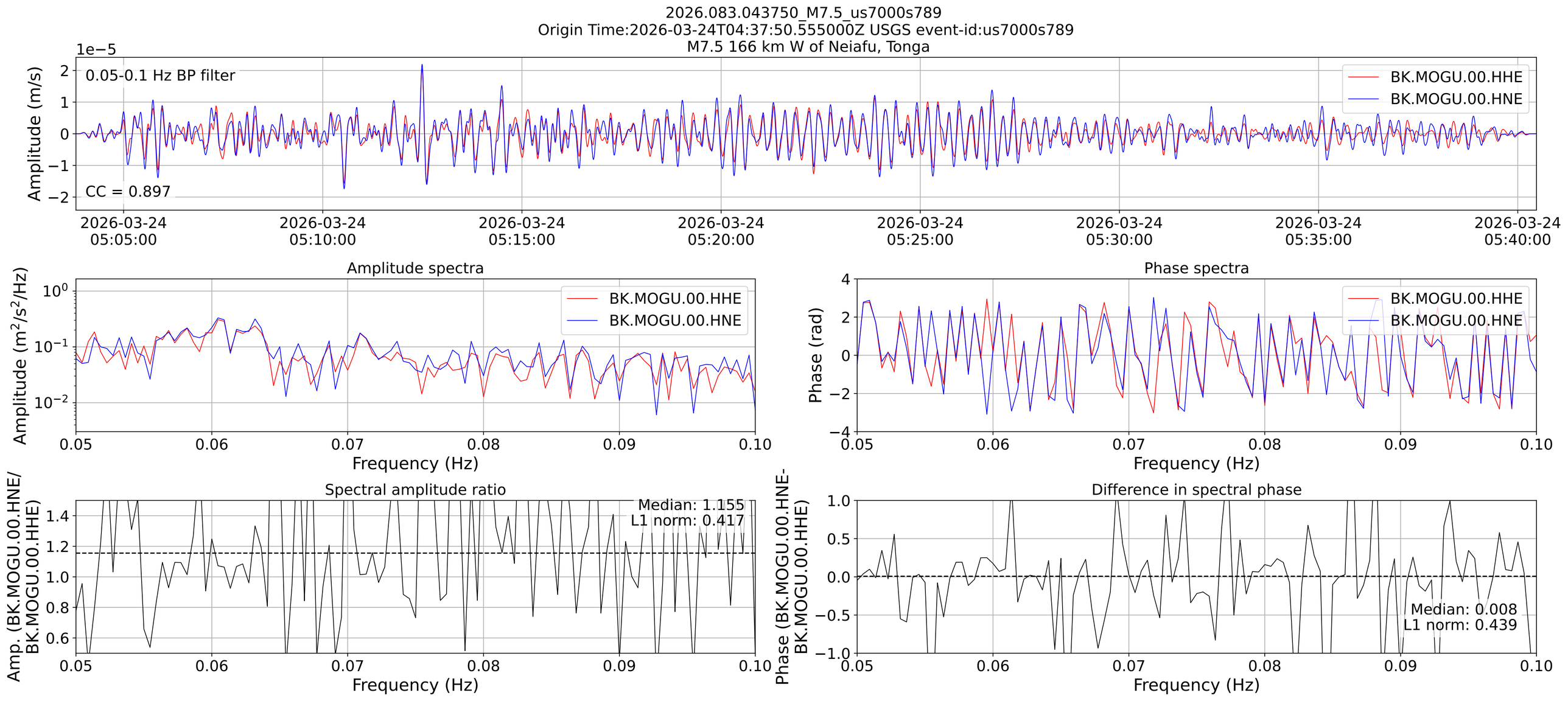

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.MNRC.00.HHN
BK.MNRC.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNN/ BK.MNRC.00.HHN)
Median: 1.015
L1 norm: 0.077
Difference in spectral phase
Phase (BK.MNRC.00.HNN- BK.MNRC.00.HHN)
Median: 0.002
L1 norm: 0.060

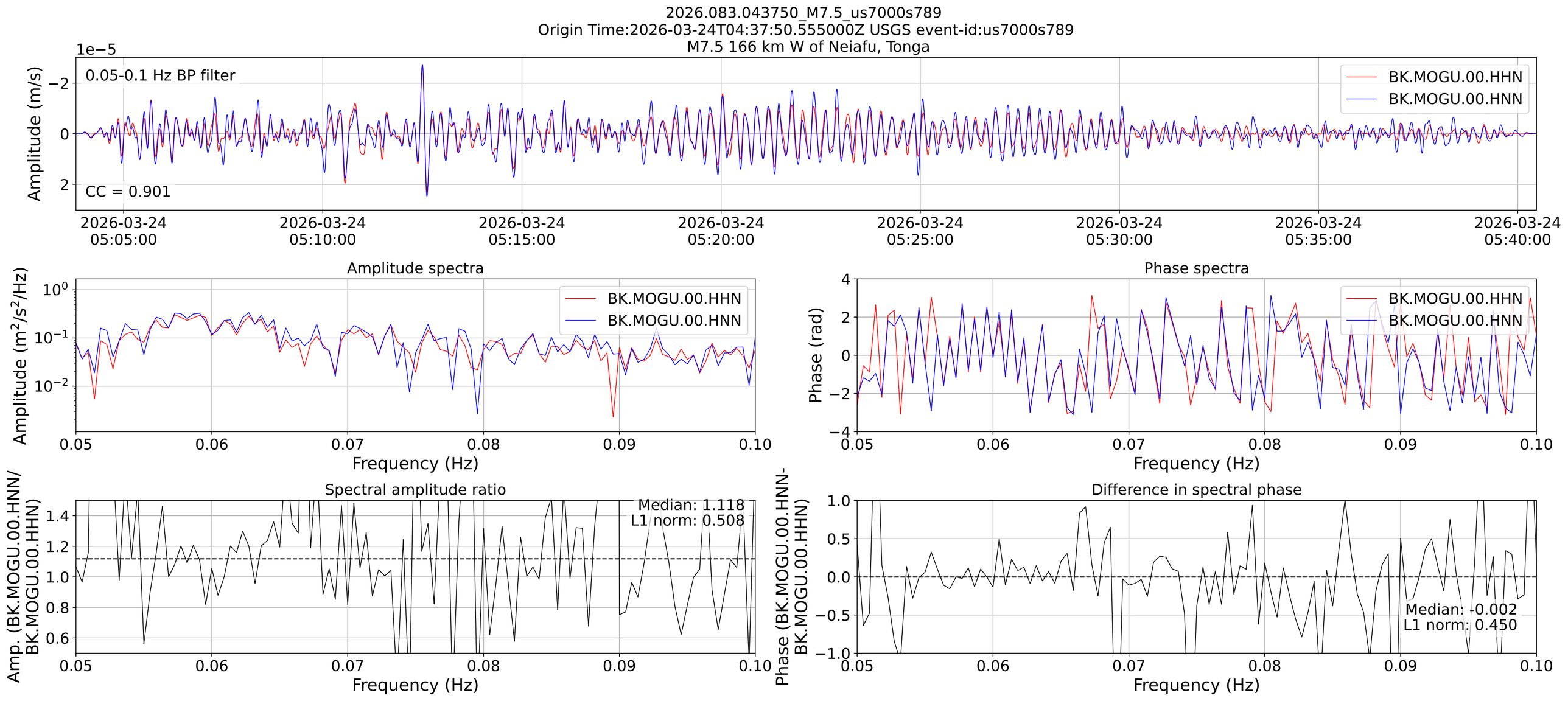

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.MNRC.00.HHZ
BK.MNRC.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MNRC.00.HNZ/ BK.MNRC.00.HHZ)
Median: 1.014
L1 norm: 0.080
Difference in spectral phase
Phase (BK.MNRC.00.HNZ-BK.MNRC.00.HHZ)
Median: -0.000
L1 norm: 0.089

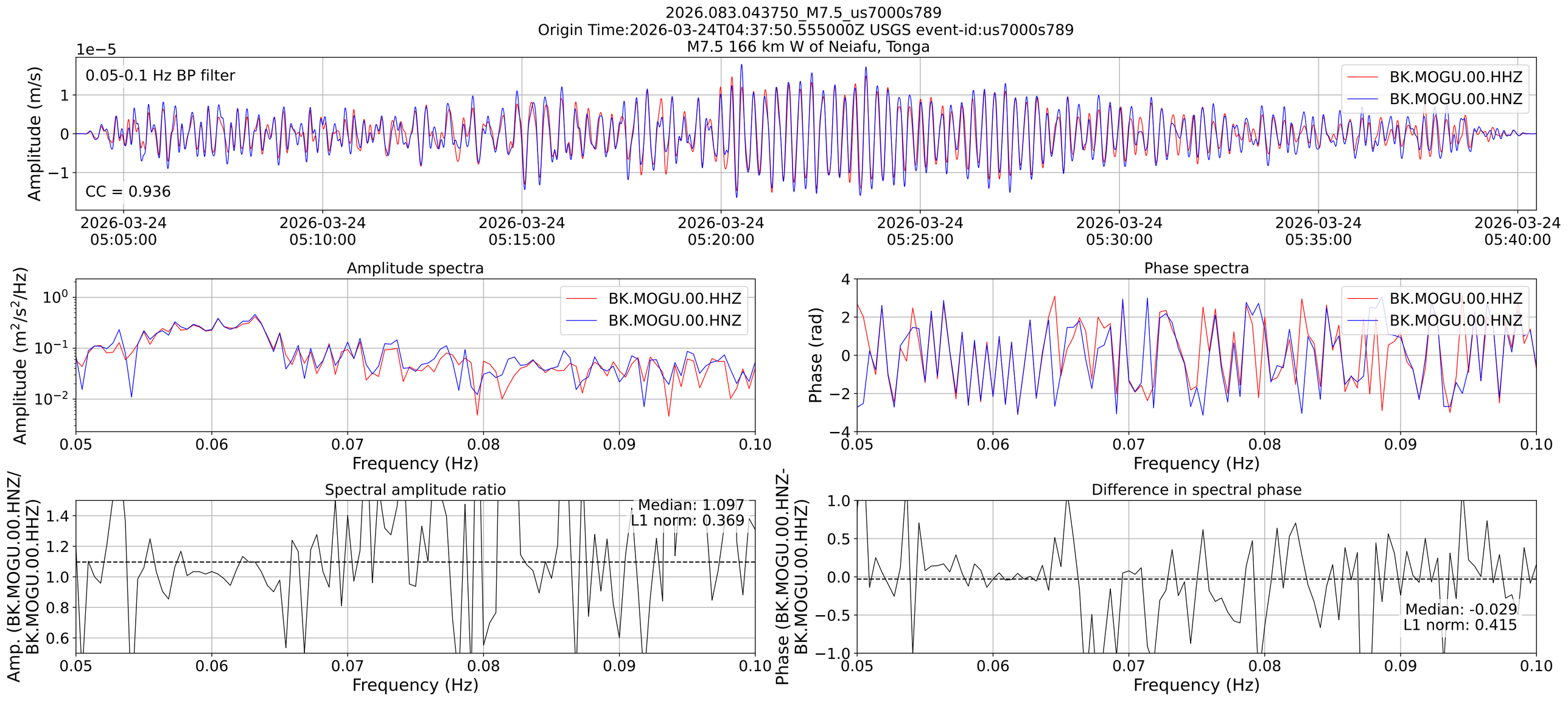

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.MOD.00.HHE
BK.MOD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOD.00.HNE/ BK.MOD.00.HHE)
Median: 1.060
L1 norm: 0.125
Difference in spectral phase
Phase (BK.MOD.00.HNE- BK.MOD.00.HHE)
Median: -0.001
L1 norm: 0.101

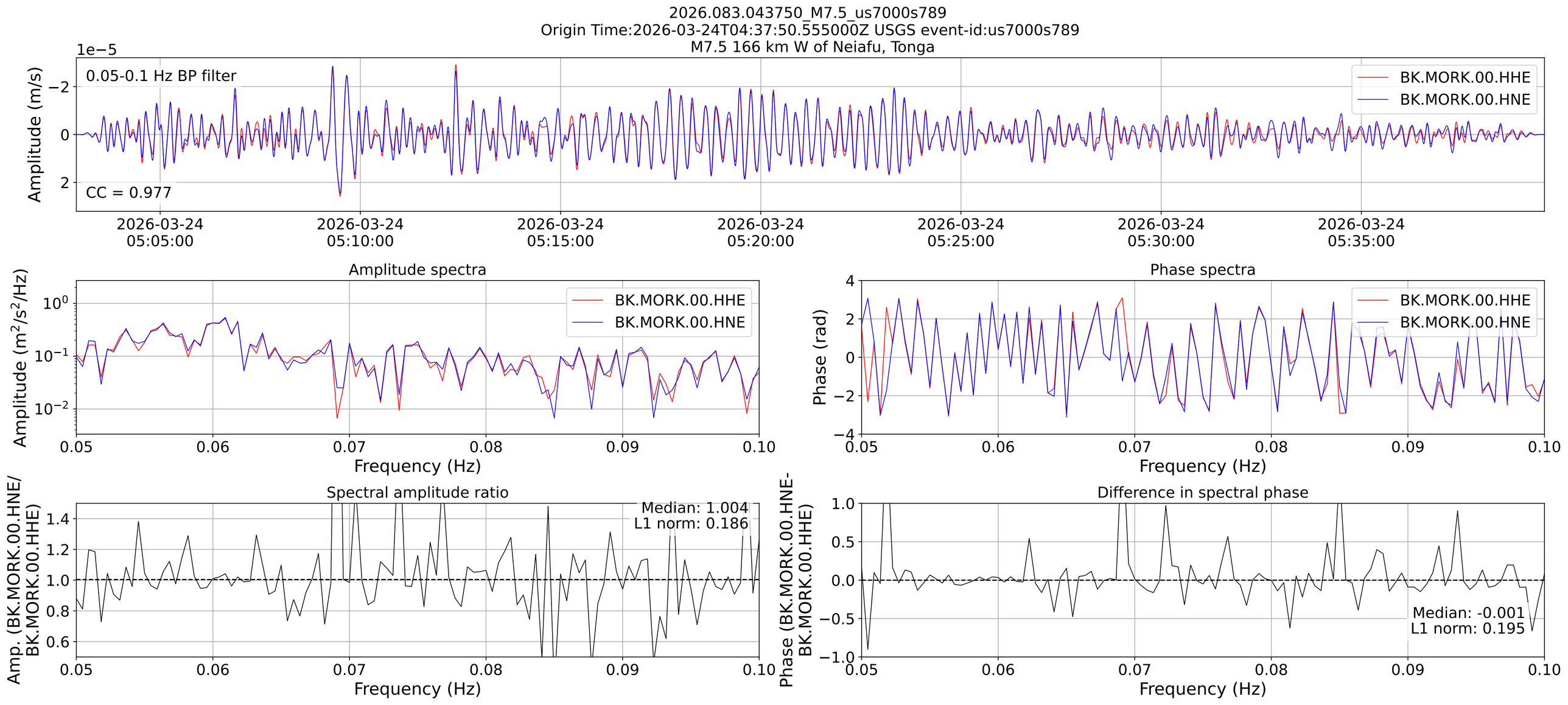

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.MOD.00.HHN
BK.MOD.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 0.999
L1 norm: 0.126
Amp. (BK.MOD.00.HNN/ BK.MOD.00.HHN)
Difference in spectral phase
Phase (BK.MOD.00.HNN- BK.MOD.00.HHN)
Median: 0.004
L1 norm: 0.143

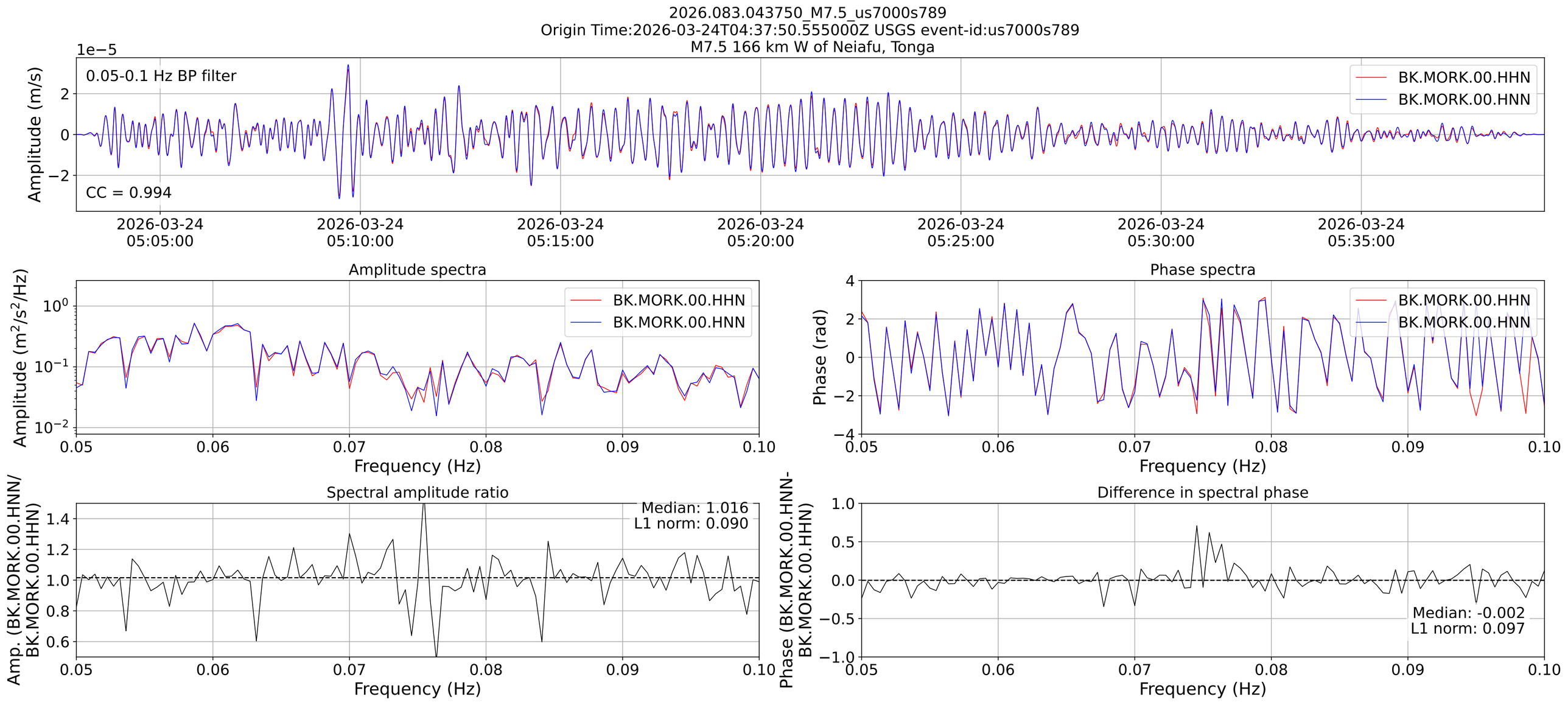

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.MOD.00.HHZ
BK.MOD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOD.00.HNZ/ BK.MOD.00.HHZ)
Median: 1.006
L1 norm: 0.174
Difference in spectral phase
Phase (BK.MOD.00.HNZ- BK.MOD.00.HHZ)
Median: 0.016
L1 norm: 0.152

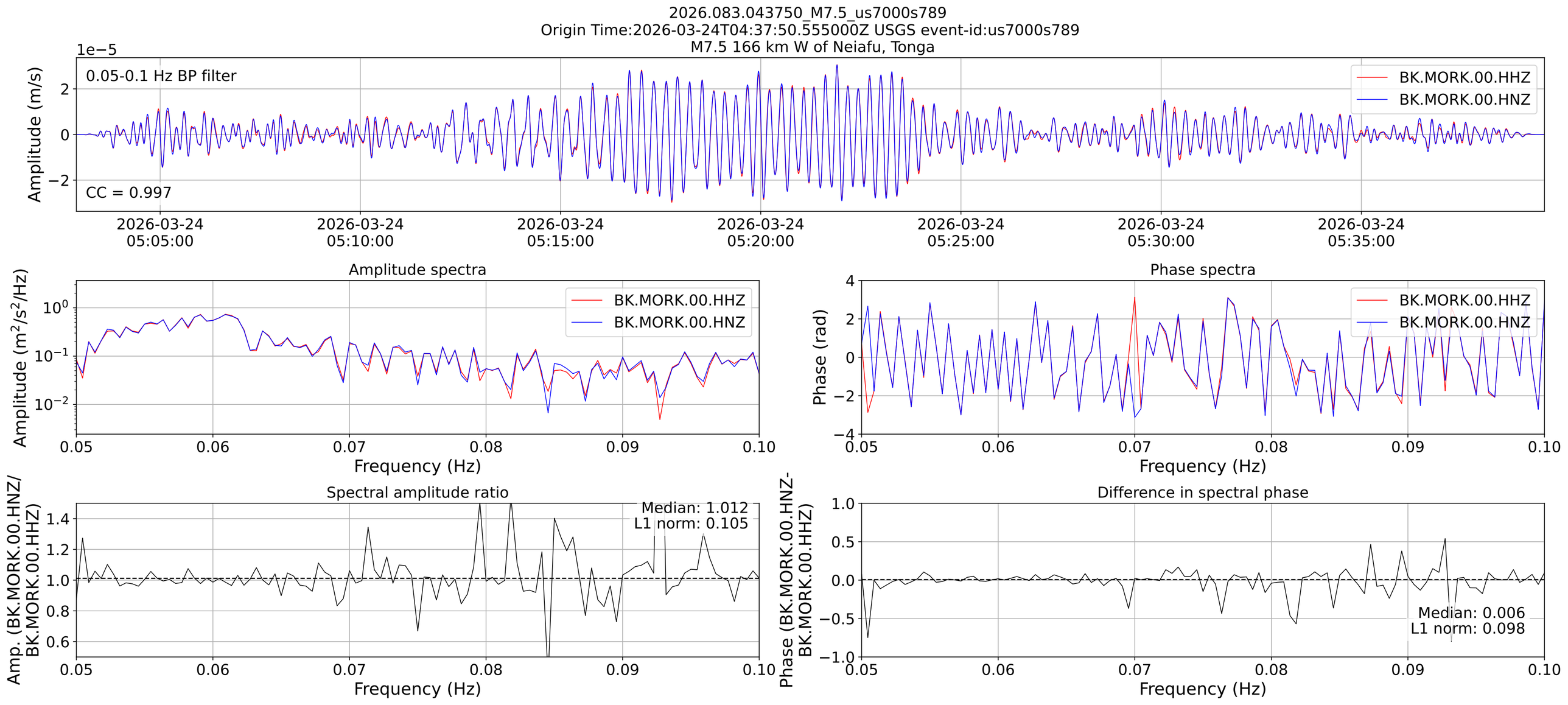

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.897
Amplitude (m/s)
BK.MOGU.00.HHE
BK.MOGU.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.155
L1 norm: 0.417
Amp. (BK.MOGU.00.HNE/ BK.MOGU.00.HHE)
Difference in spectral phase
Phase (BK.MOGU.00.HNE- BK.MOGU.00.HHE)
Median: 0.008
L1 norm: 0.439

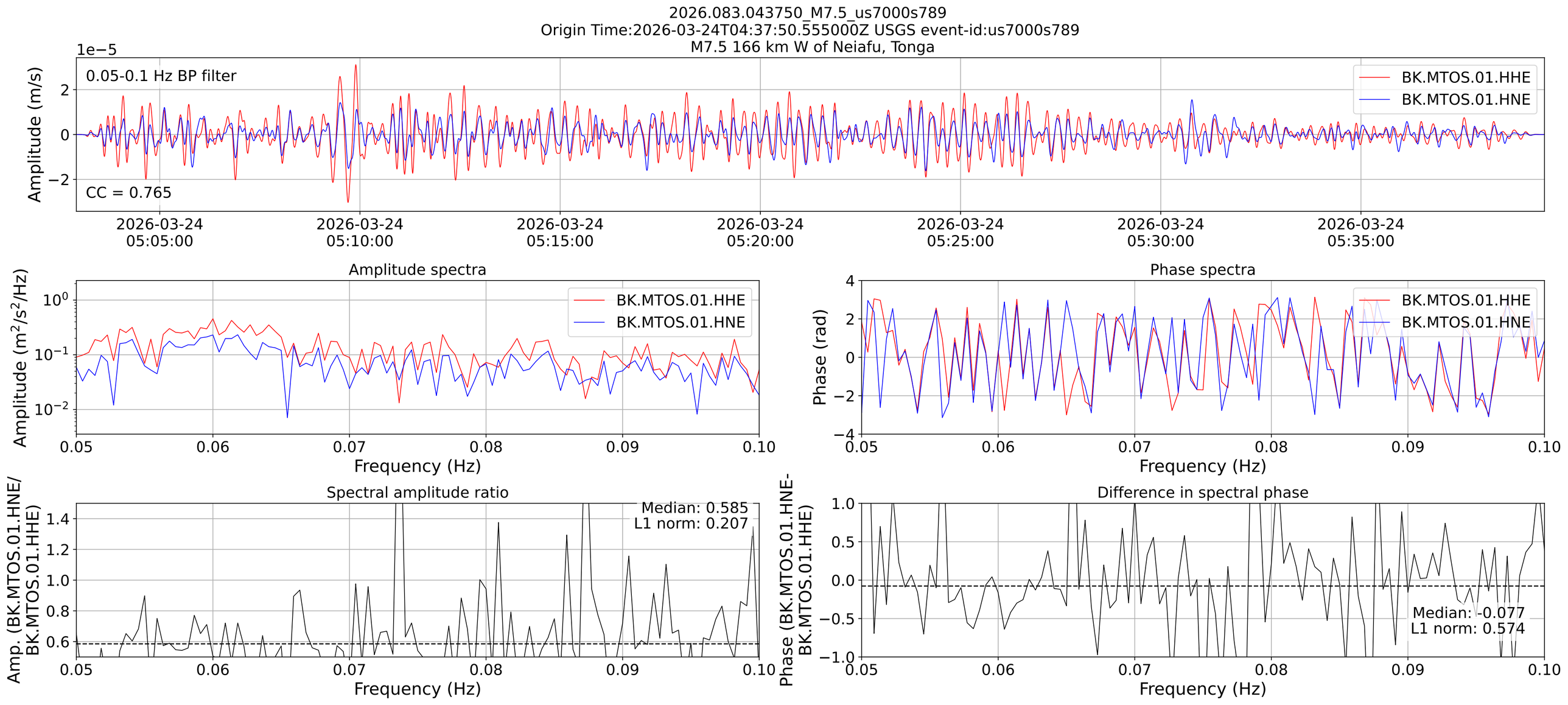

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.901
Amplitude (m/s)
BK.MOGU.00.HHN
BK.MOGU.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOGU.00.HNN/ BK.MOGU.00.HHN)
Median: 1.118
L1 norm: 0.508
Difference in spectral phase
Phase (BK.MOGU.00.HNN- BK.MOGU.00.HHN)
Median: -0.002
L1 norm: 0.450

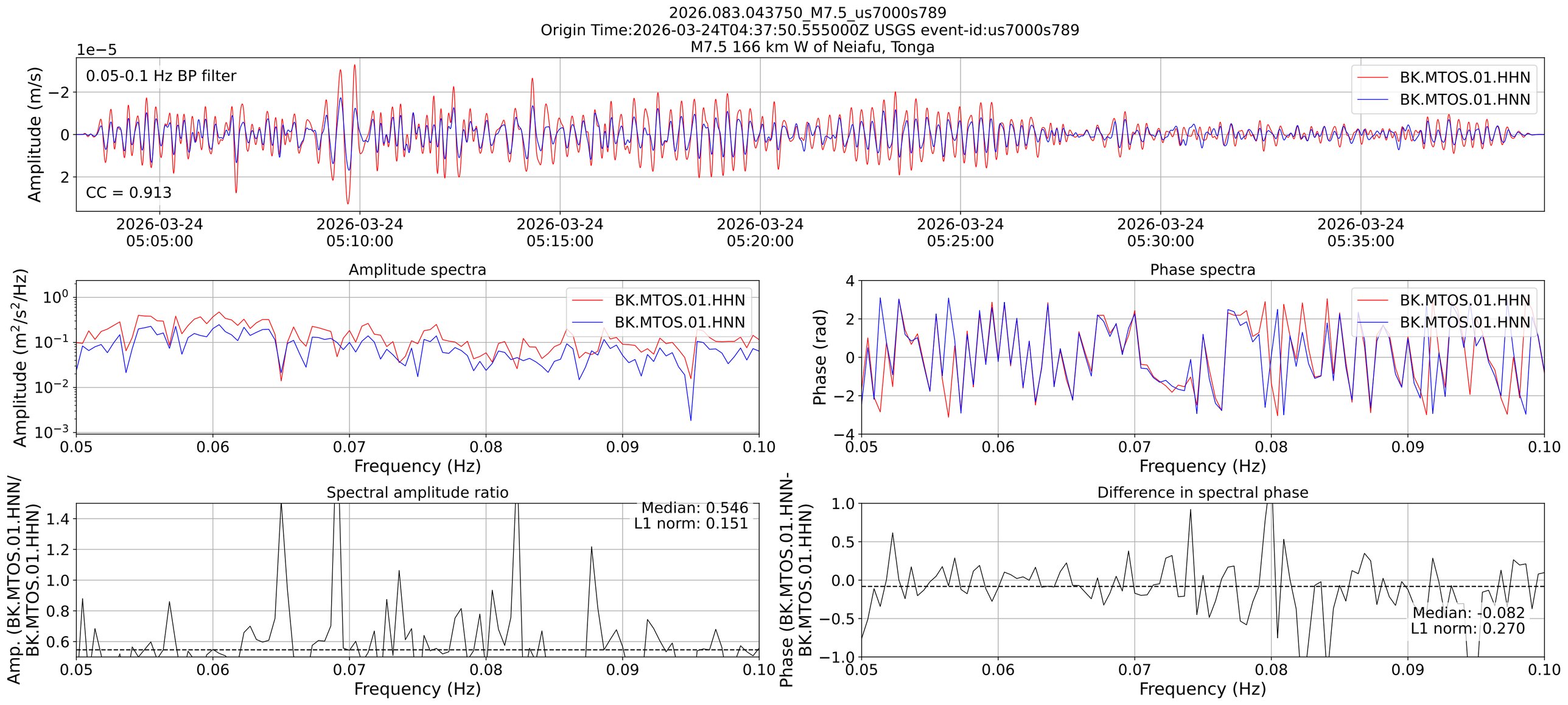

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.936
BK.MOGU.00.HHZ
BK.MOGU.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MOGU.00.HNZ/ BK.MOGU.00.HHZ)
Median: 1.097
L1 norm: 0.369
Difference in spectral phase
Phase (BK.MOGU.00.HNZ- BK.MOGU.00.HHZ)
Median: -0.029
L1 norm: 0.415

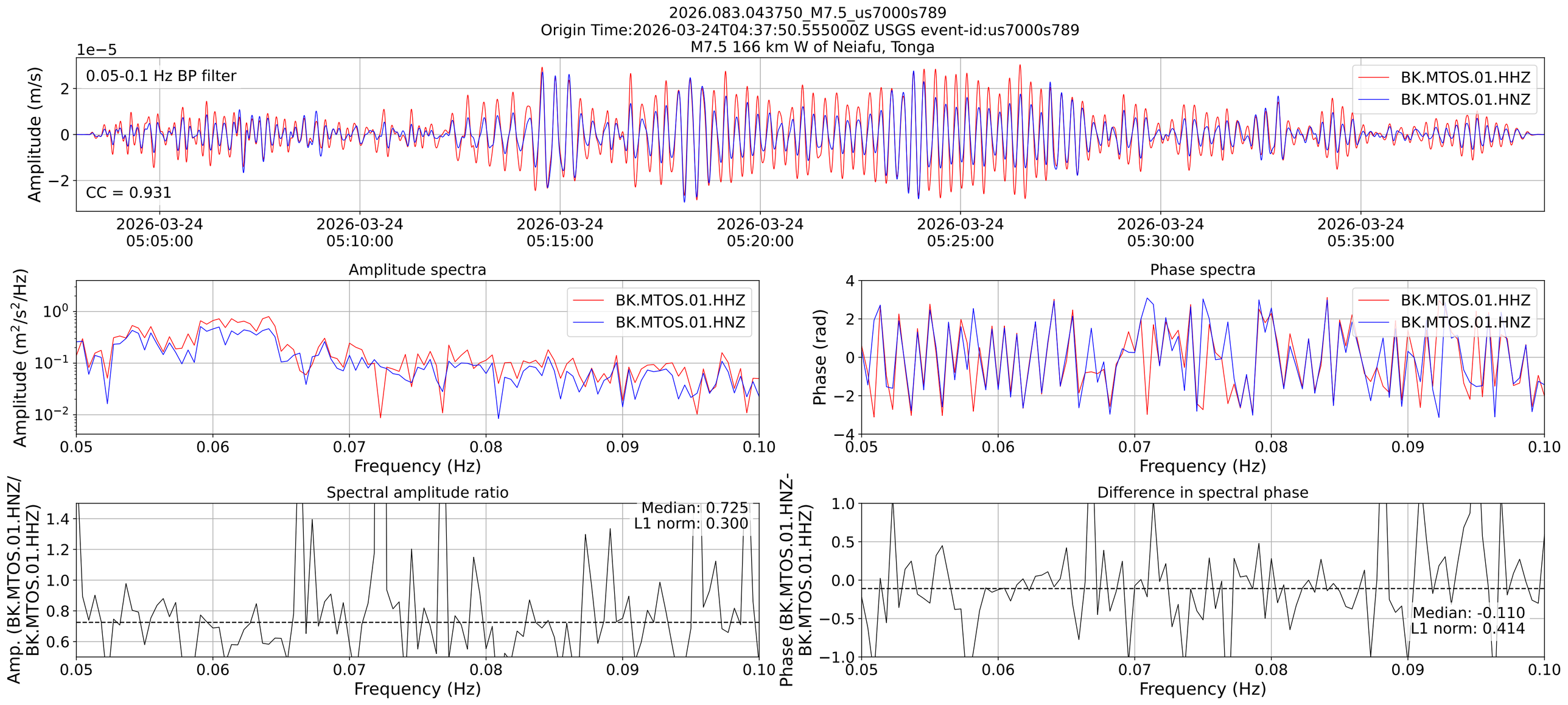

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
BK.MORK.00.HHE
BK.MORK.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MORK.00.HNE/ BK.MORK.00.HHE)
Median: 1.004
L1 norm: 0.186
Difference in spectral phase
Phase (BK.MORK.00.HNE- BK.MORK.00.HHE)
Median: -0.001
L1 norm: 0.195

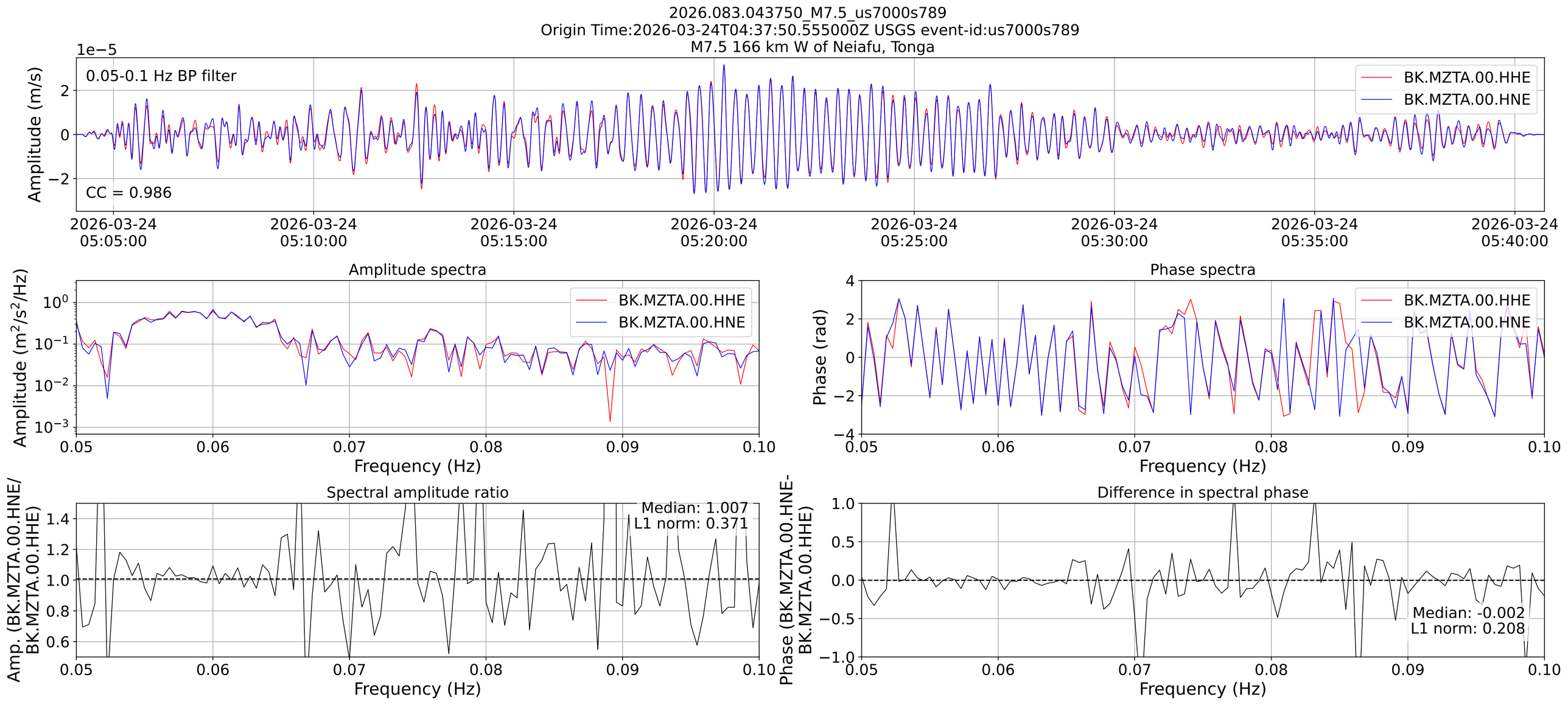

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.MORK.00.HHN
BK.MORK.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MORK.00.HNN/ BK.MORK.00.HHN)
Median: 1.016
L1 norm: 0.090
Difference in spectral phase
Phase (BK.MORK.00.HNN- BK.MORK.00.HHN)
Median: -0.002
L1 norm: 0.097

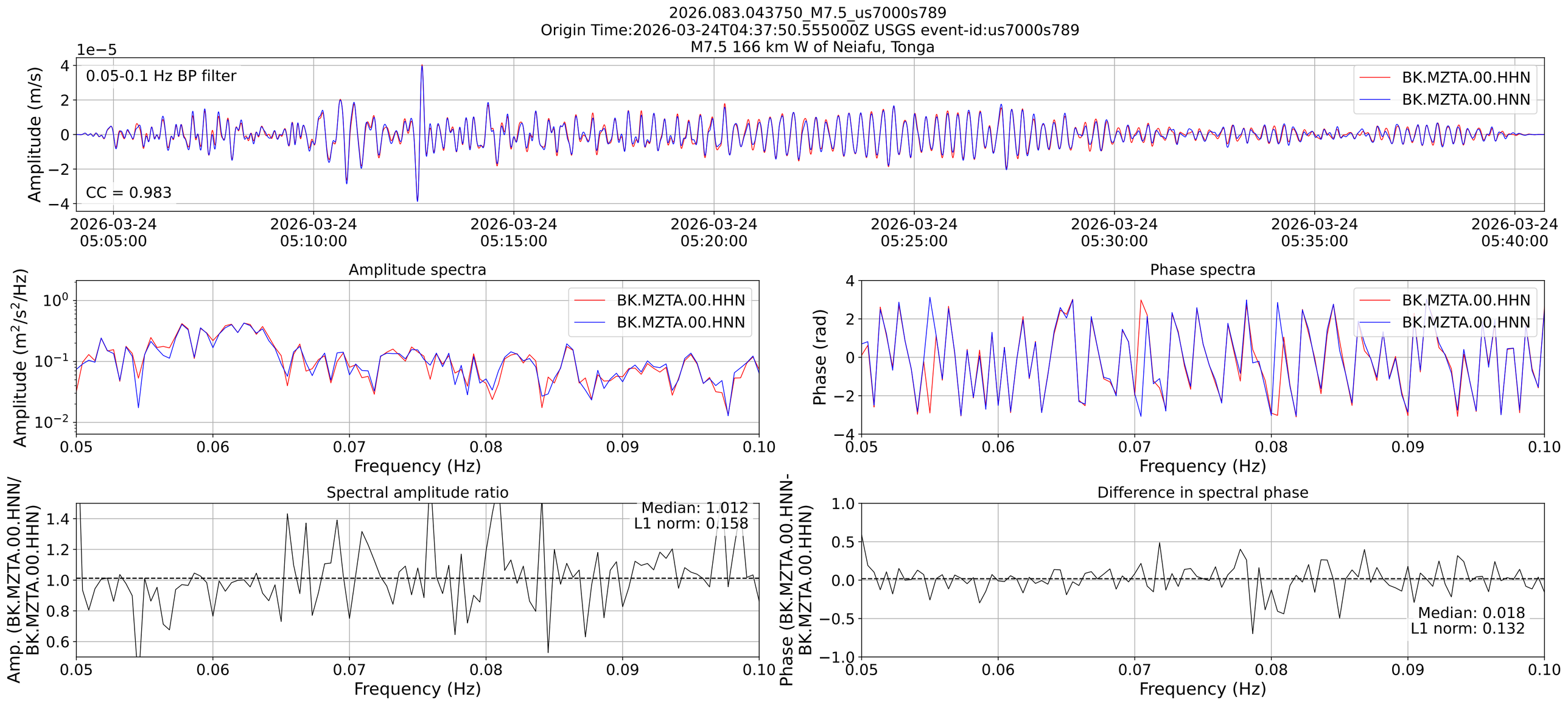

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.MORK.00.HHZ
BK.MORK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MORK.00.HNZ/ BK.MORK.00.HHZ)
Median: 1.012
L1 norm: 0.105
Difference in spectral phase
Phase (BK.MORK.00.HNZ- BK.MORK.00.HHZ)
Median: 0.006
L1 norm: 0.098

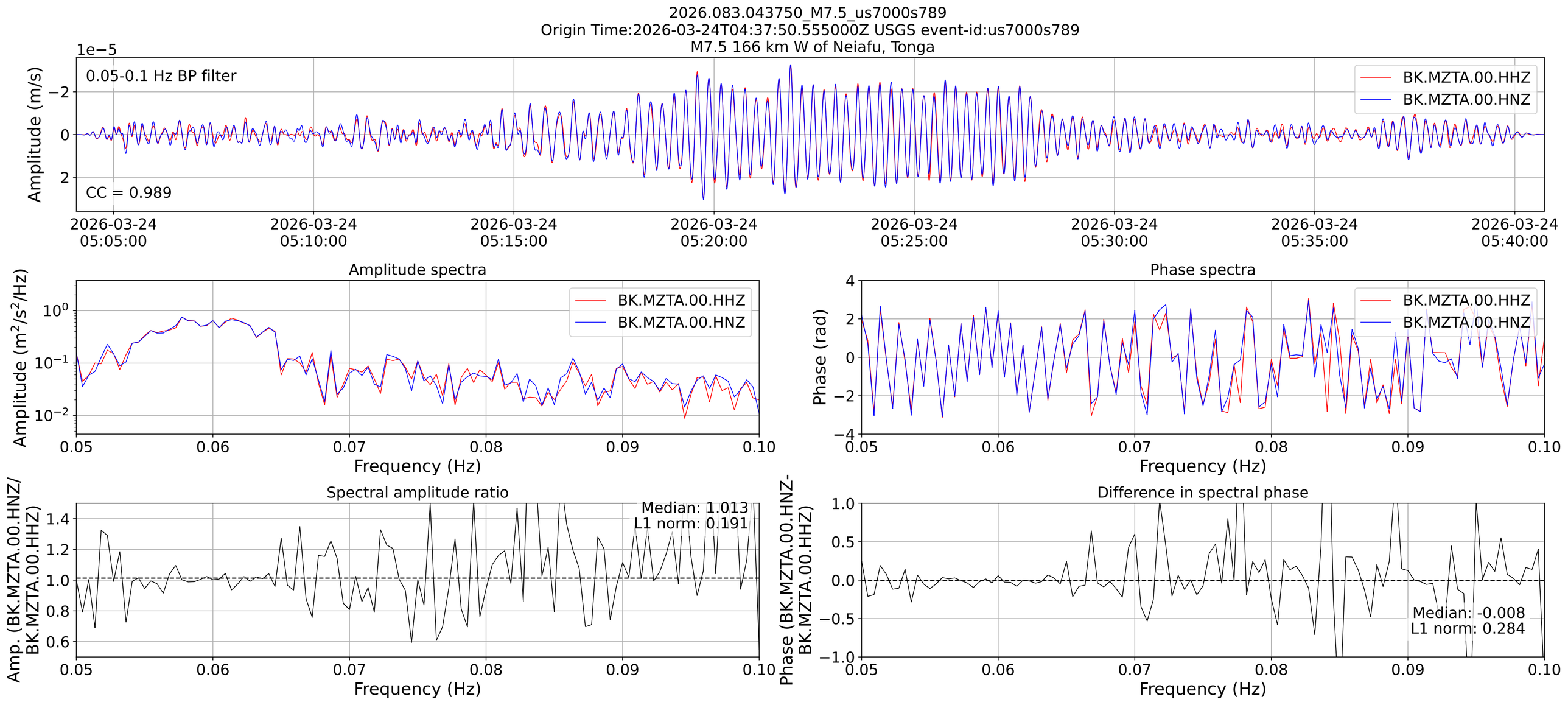

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.765
Amplitude (m/s)
BK.MTOS.01.HHE
BK.MTOS.01.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.01.HNE/ BK.MTOS.01.HHE)
Median: 0.585
L1 norm: 0.207
Difference in spectral phase
Phase (BK.MTOS.01.HNE- BK.MTOS.01.HHE)
Median: -0.077
L1 norm: 0.574

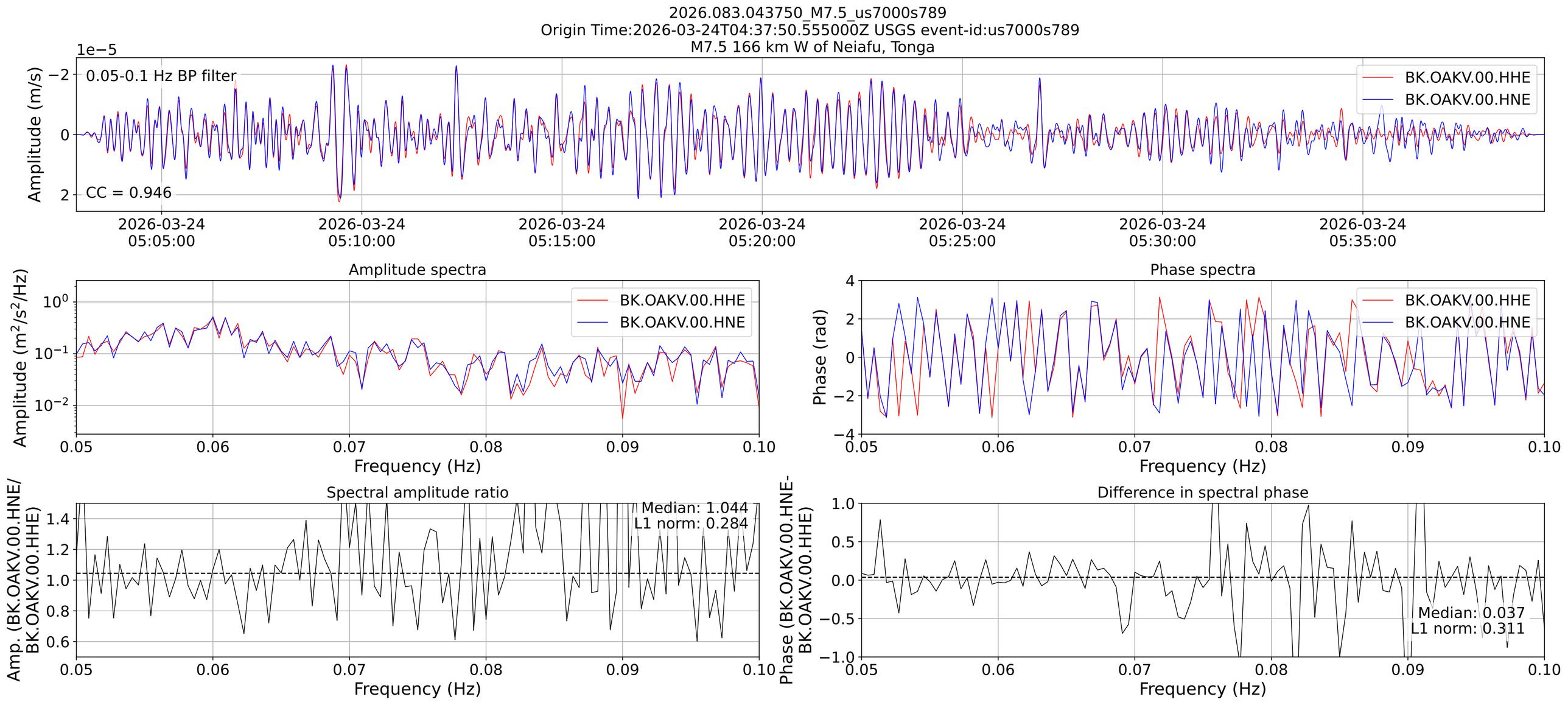

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.913
BK.MTOS.01.HHN
BK.MTOS.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.01.HNN/ BK.MTOS.01.HHN)
Median: 0.546
L1 norm: 0.151
Difference in spectral phase
Phase (BK.MTOS.01.HNN- BK.MTOS.01.HHN)
Median: -0.082
L1 norm: 0.270

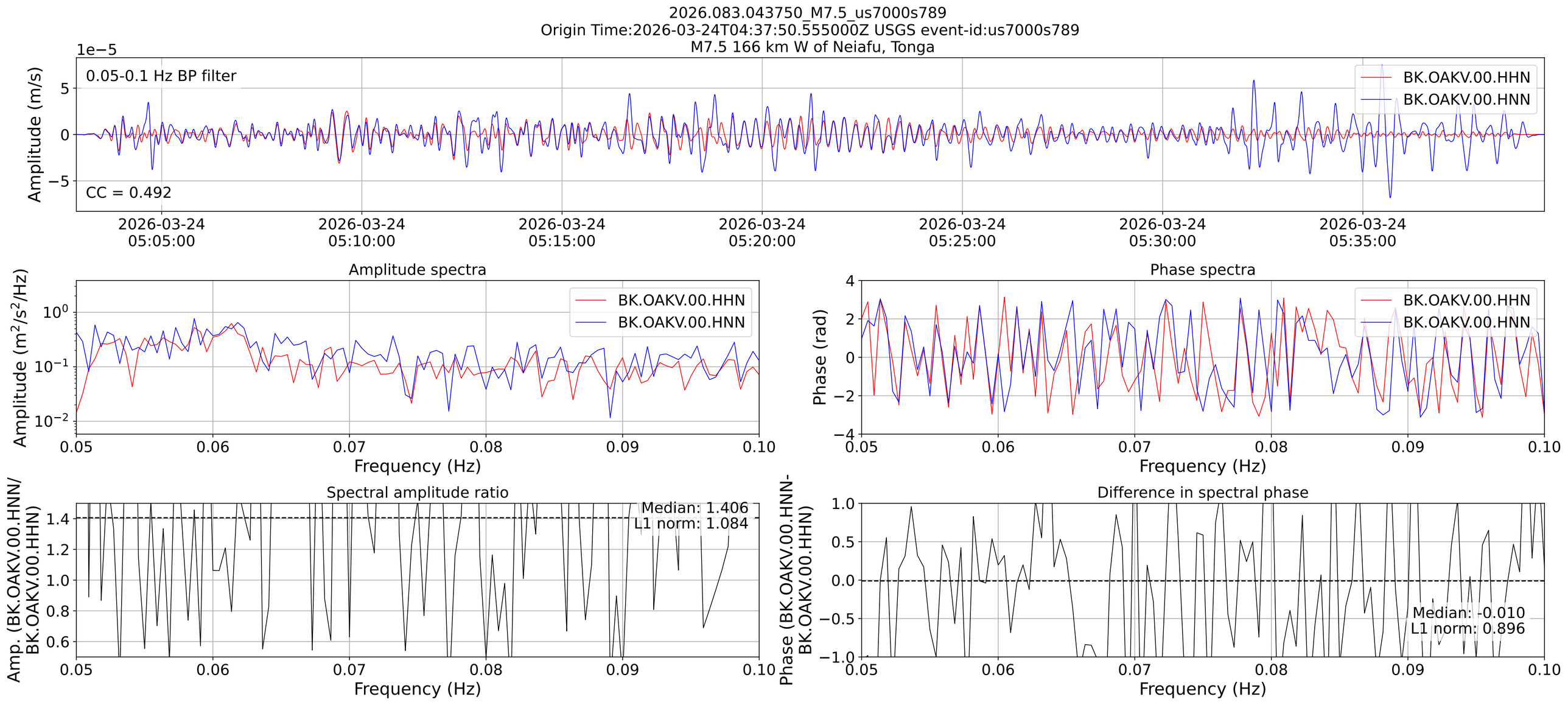

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.931
Amplitude (m/s)
BK.MTOS.01.HHZ
BK.MTOS.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MTOS.01.HNZ/ BK.MTOS.01.HHZ)
Median: 0.725
L1 norm: 0.300
Difference in spectral phase
Phase (BK.MTOS.01.HNZ- BK.MTOS.01.HHZ)
Median: -0.110
L1 norm: 0.414

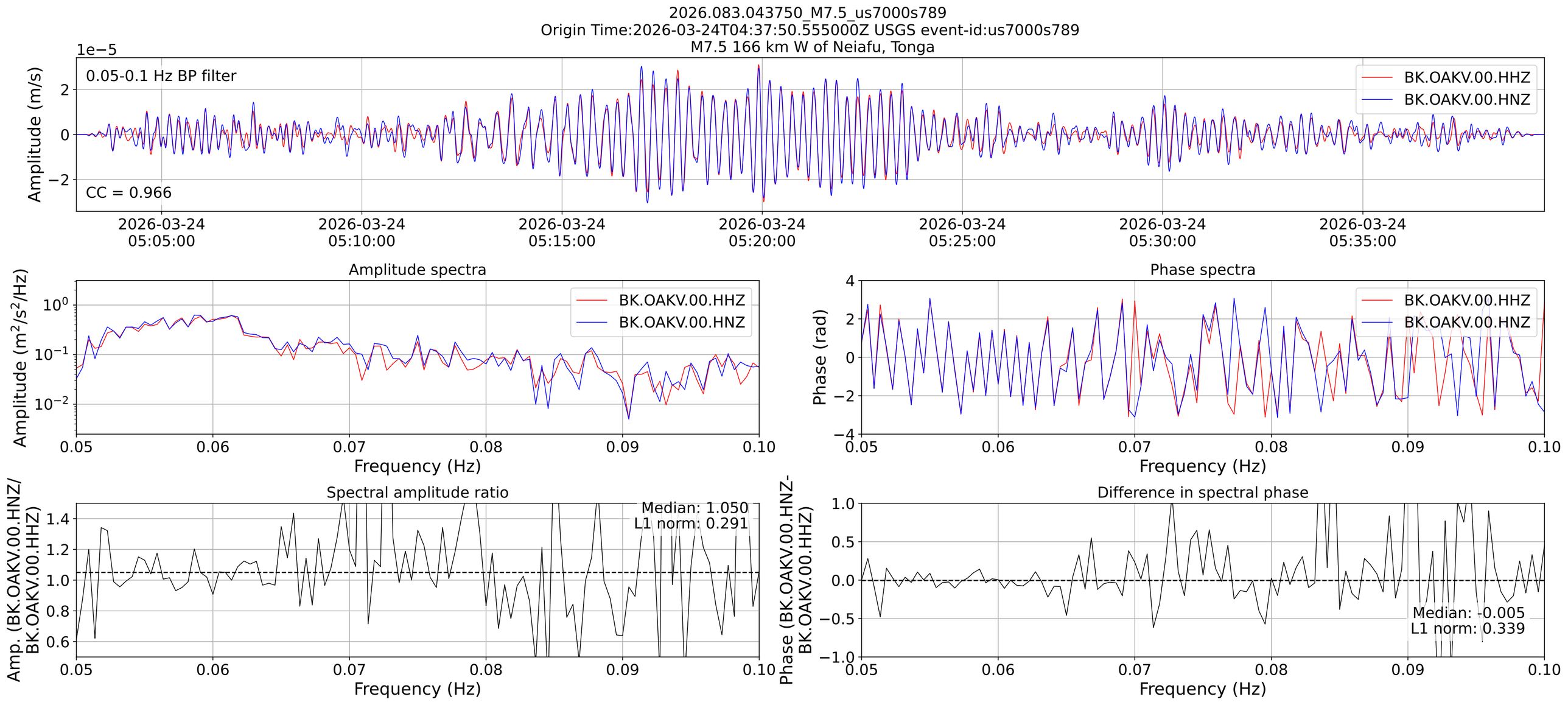

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.MZTA.00.HHE
BK.MZTA.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNE/ BK.MZTA.00.HHE)
Median: 1.007
L1 norm: 0.371
Difference in spectral phase
Phase (BK.MZTA.00.HNE- BK.MZTA.00.HHE)
Median: -0.002
L1 norm: 0.208

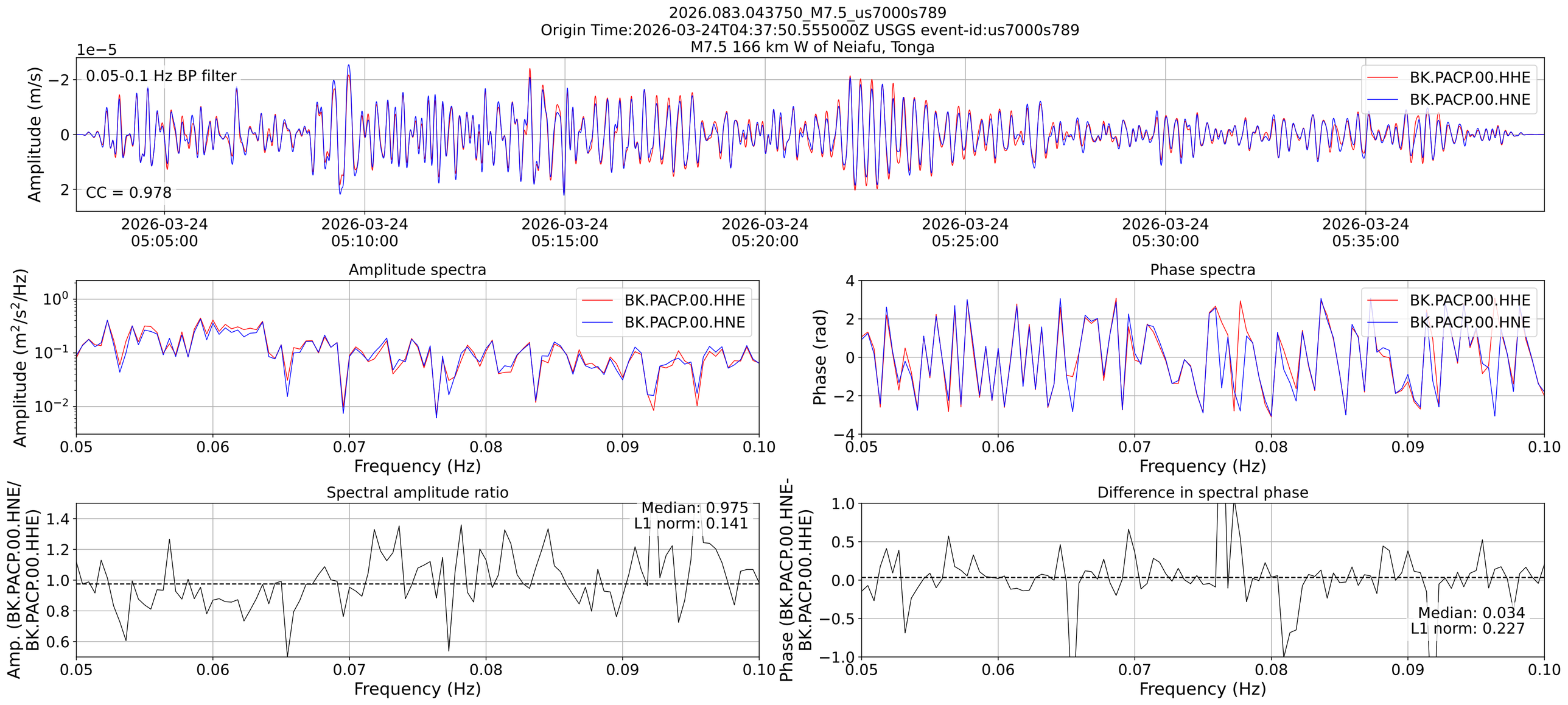

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
BK.MZTA.00.HHN
BK.MZTA.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNN/ BK.MZTA.00.HHN)
Median: 1.012
L1 norm: 0.158
Difference in spectral phase
Phase (BK.MZTA.00.HNN- BK.MZTA.00.HHN)
Median: 0.018
L1 norm: 0.132

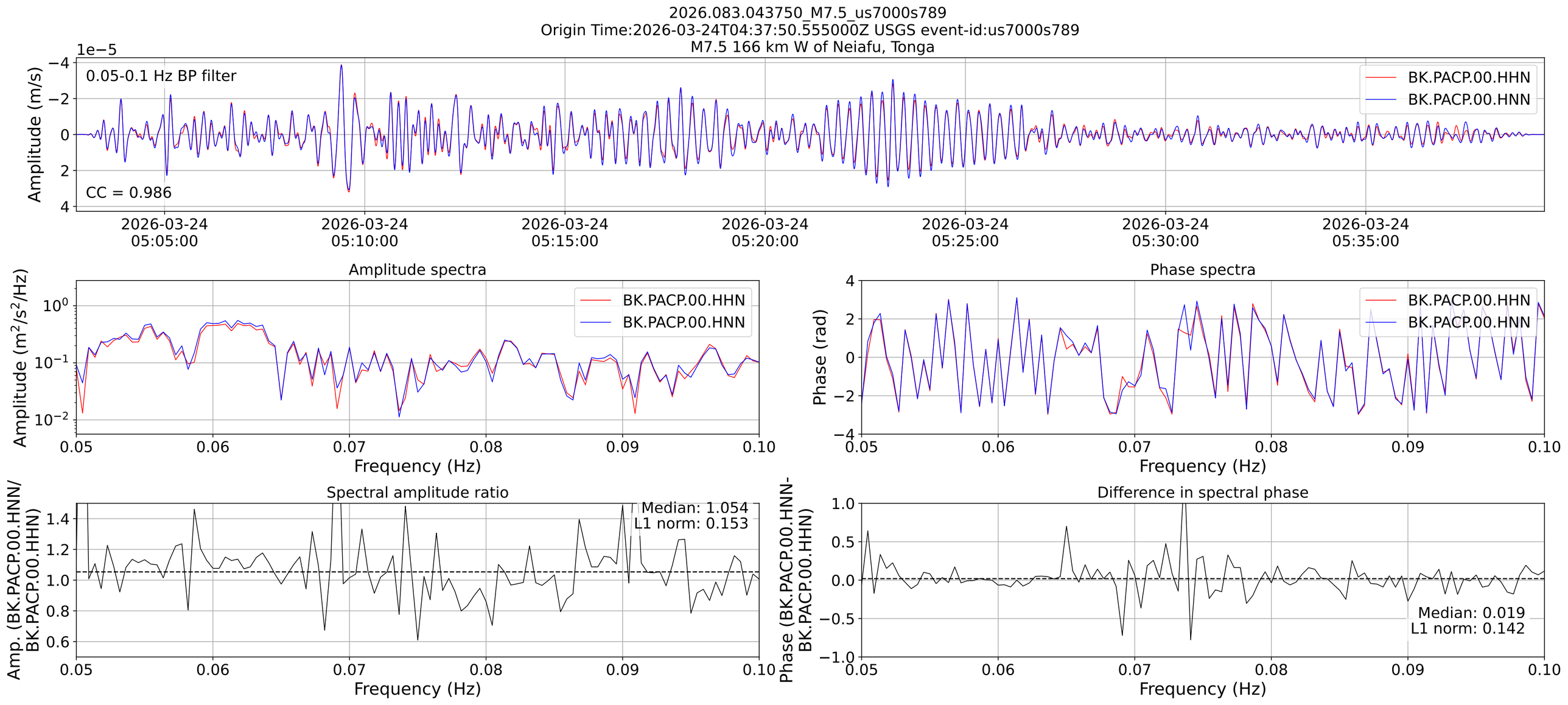

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.MZTA.00.HHZ
BK.MZTA.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.MZTA.00.HNZ/ BK.MZTA.00.HHZ)
Median: 1.013
L1 norm: 0.191
Difference in spectral phase
Phase (BK.MZTA.00.HNZ- BK.MZTA.00.HHZ)
Median: -0.008
L1 norm: 0.284

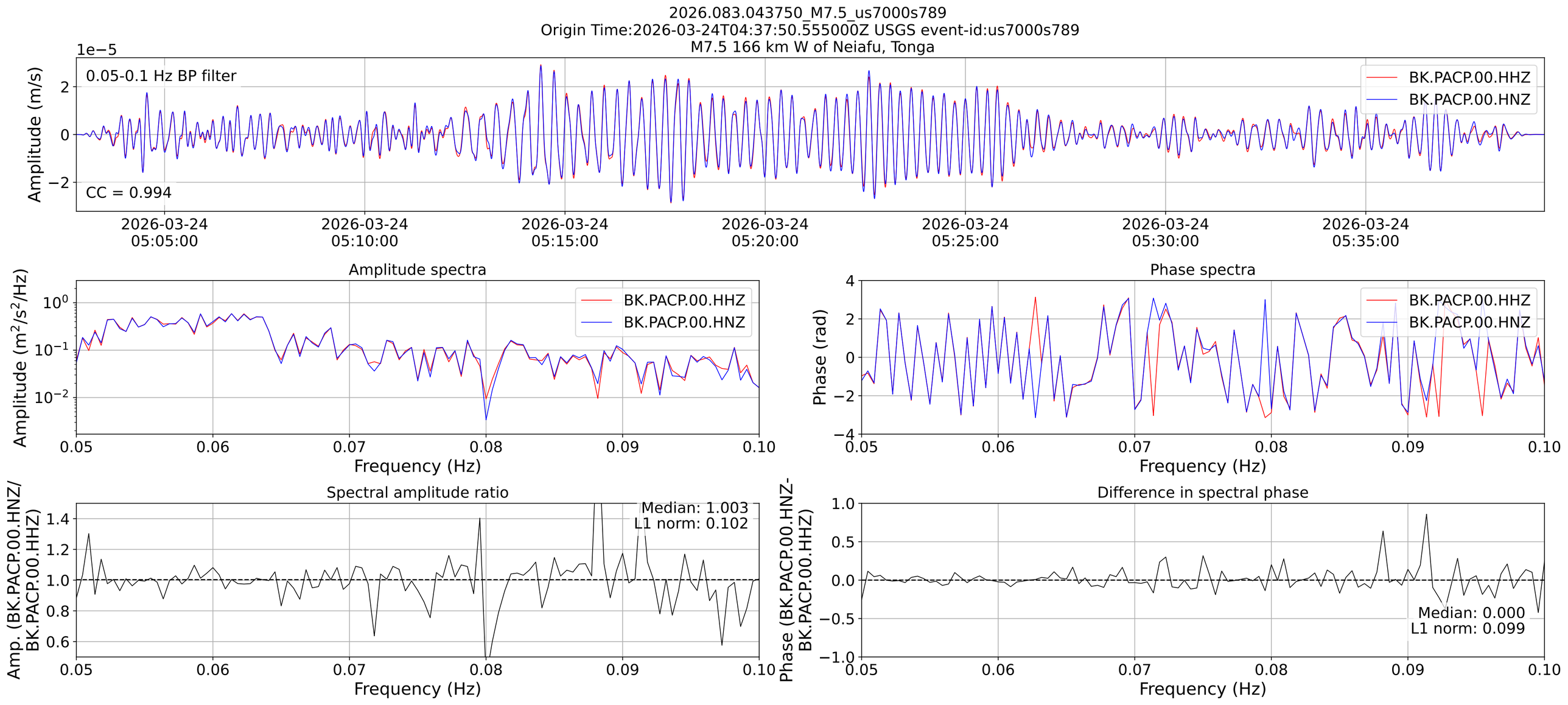

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.946
Amplitude (m/s)
BK.OAKV.00.HHE
BK.OAKV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNE/ BK.OAKV.00.HHE)
Median: 1.044
L1 norm: 0.284
Difference in spectral phase
Phase (BK.OAKV.00.HNE- BK.OAKV.00.HHE)
Median: 0.037
L1 norm: 0.311

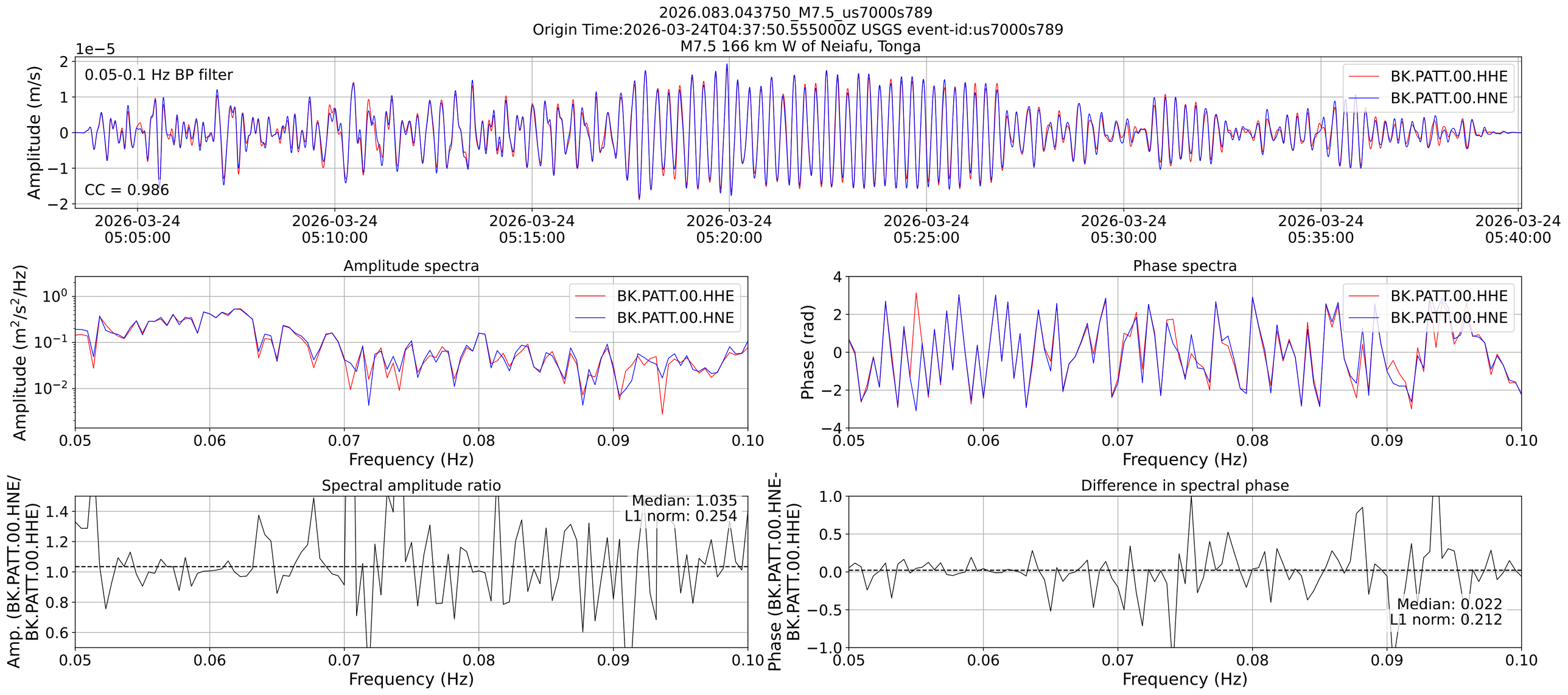

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.492
Amplitude (m/s)
BK.OAKV.00.HHN
BK.OAKV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNN/ BK.OAKV.00.HHN)
Median: 1.406
L1 norm: 1.084
Difference in spectral phase
Phase (BK.OAKV.00.HNN- BK.OAKV.00.HHN)
Median: -0.010
L1 norm: 0.896

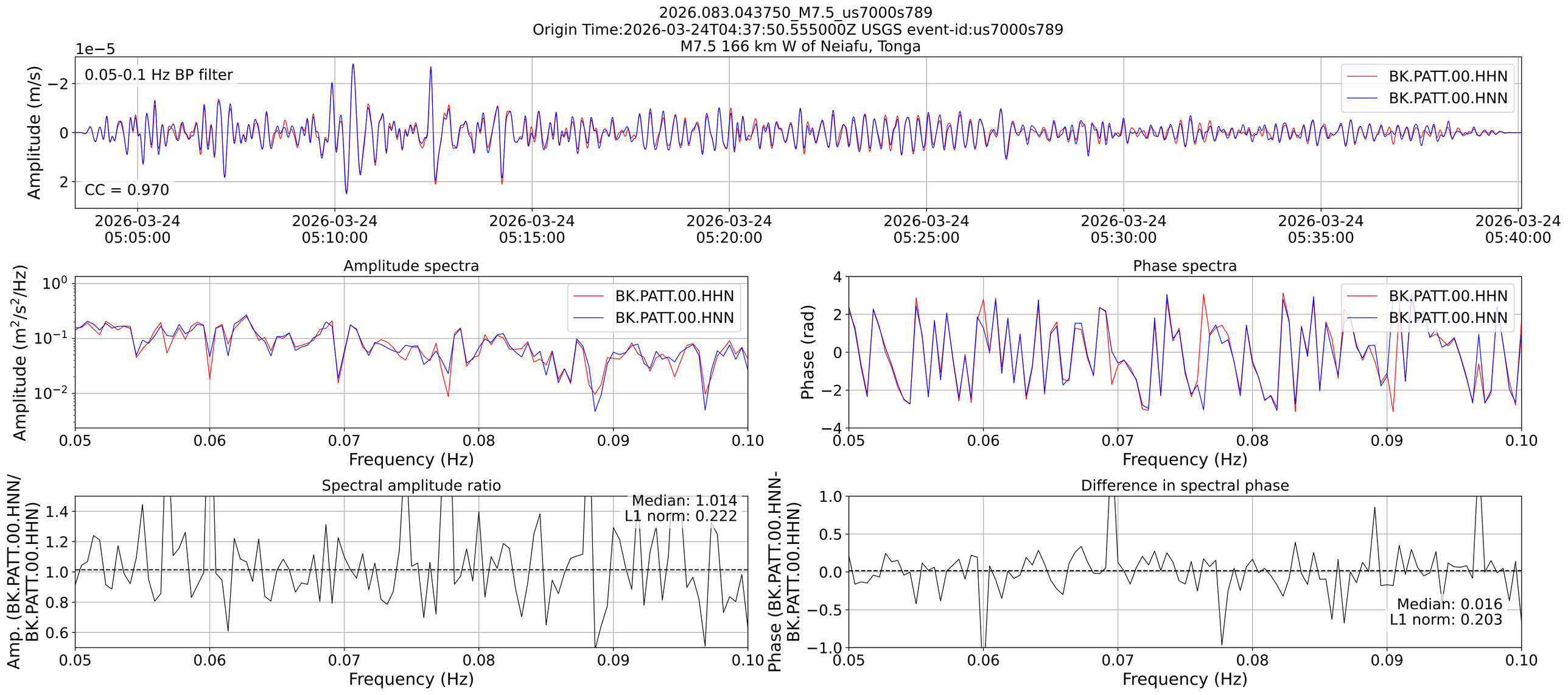

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.966
Amplitude (m/s)
BK.OAKV.00.HHZ
BK.OAKV.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.OAKV.00.HNZ/ BK.OAKV.00.HHZ)
Median: 1.050
L1 norm: 0.291
Difference in spectral phase
Phase (BK.OAKV.00.HNZ-BK.OAKV.00.HHZ)
Median: -0.005
L1 norm: 0.339

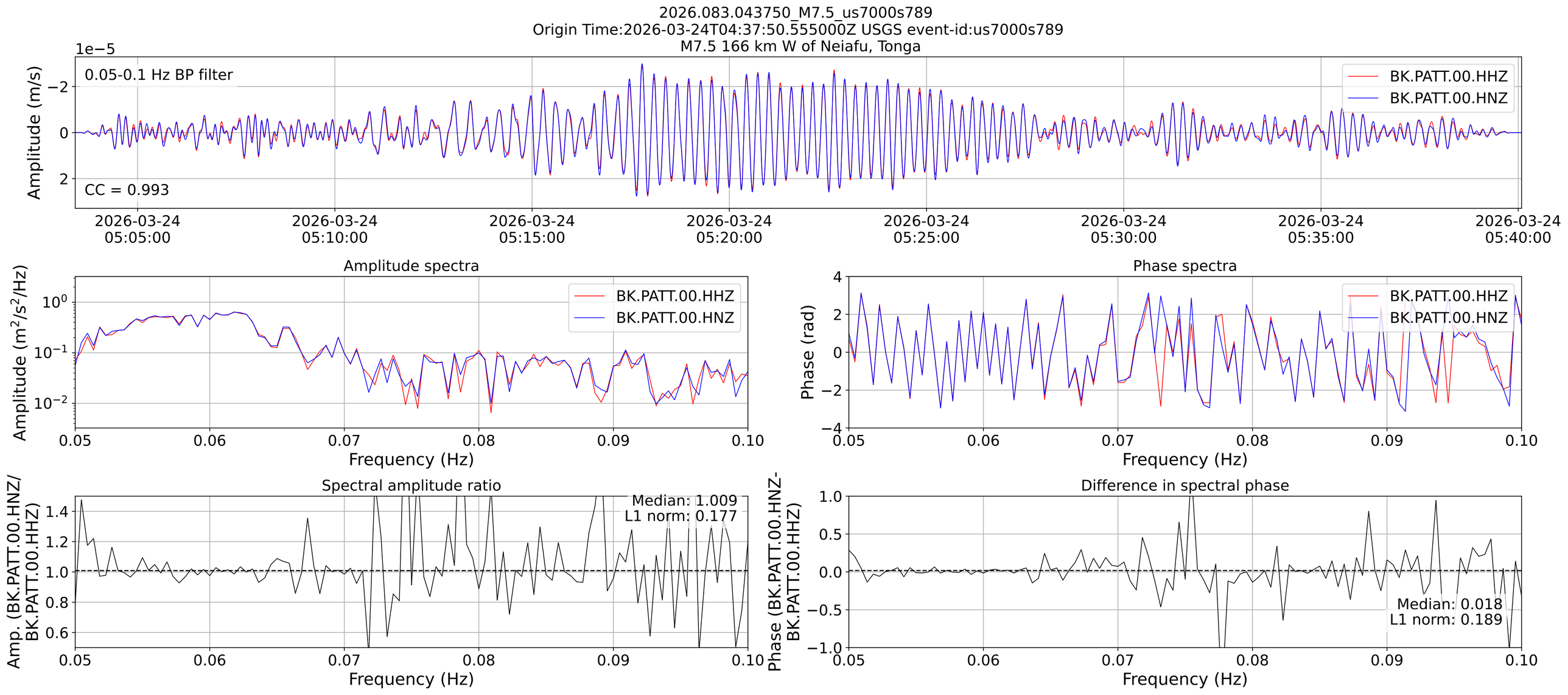

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.PACP.00.HHE
BK.PACP.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PACP.00.HNE/ BK.PACP.00.HHE)
Median: 0.975
L1 norm: 0.141
Difference in spectral phase
Phase (BK.PACP.00.HNE- BK.PACP.00.HHE)
Median: 0.034
L1 norm: 0.227

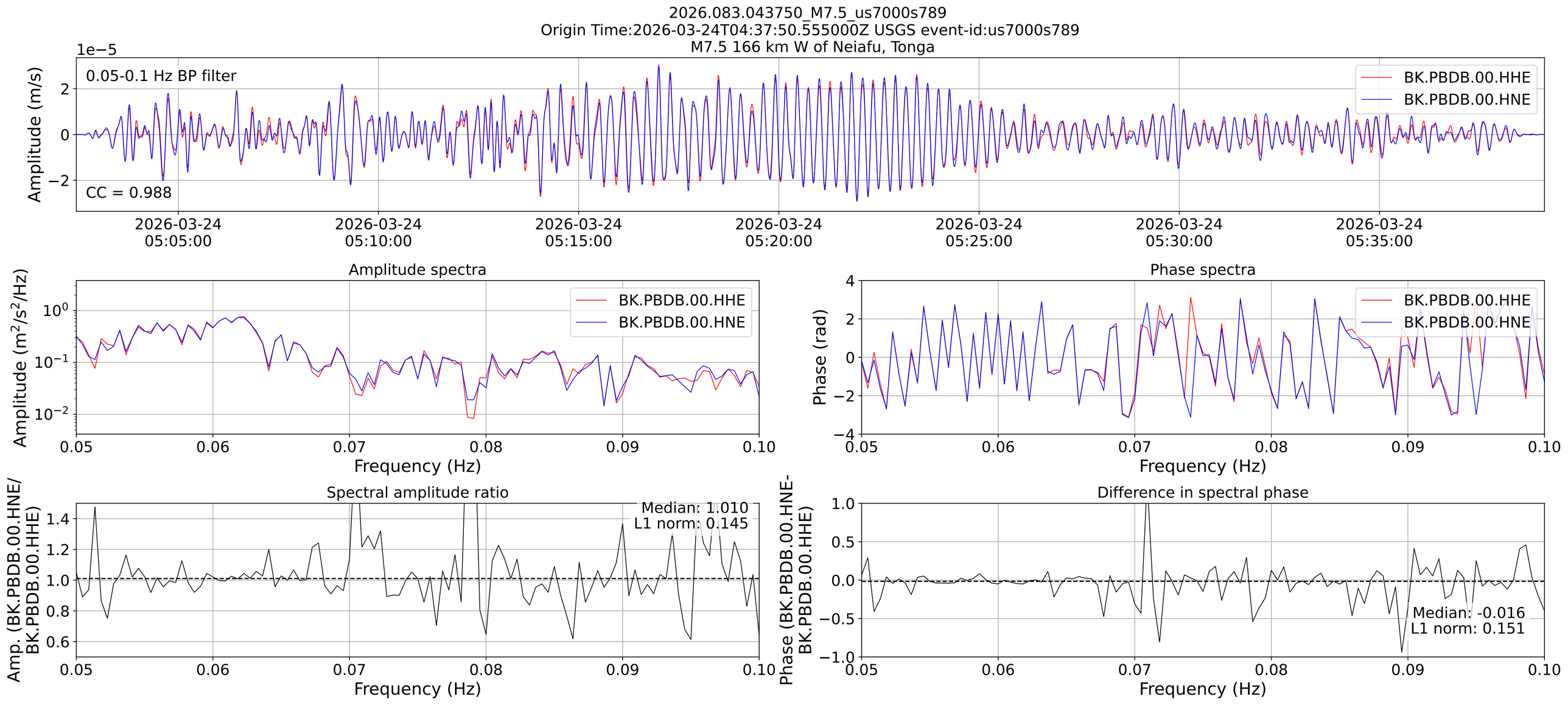

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.PACP.00.HHN
BK.PACP.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PACP.00.HNN/ BK.PACP.00.HHN)
Median: 1.054
L1 norm: 0.153
Difference in spectral phase
Phase (BK.PACP.00.HNN- BK.PACP.00.HHN)
Median: 0.019
L1 norm: 0.142

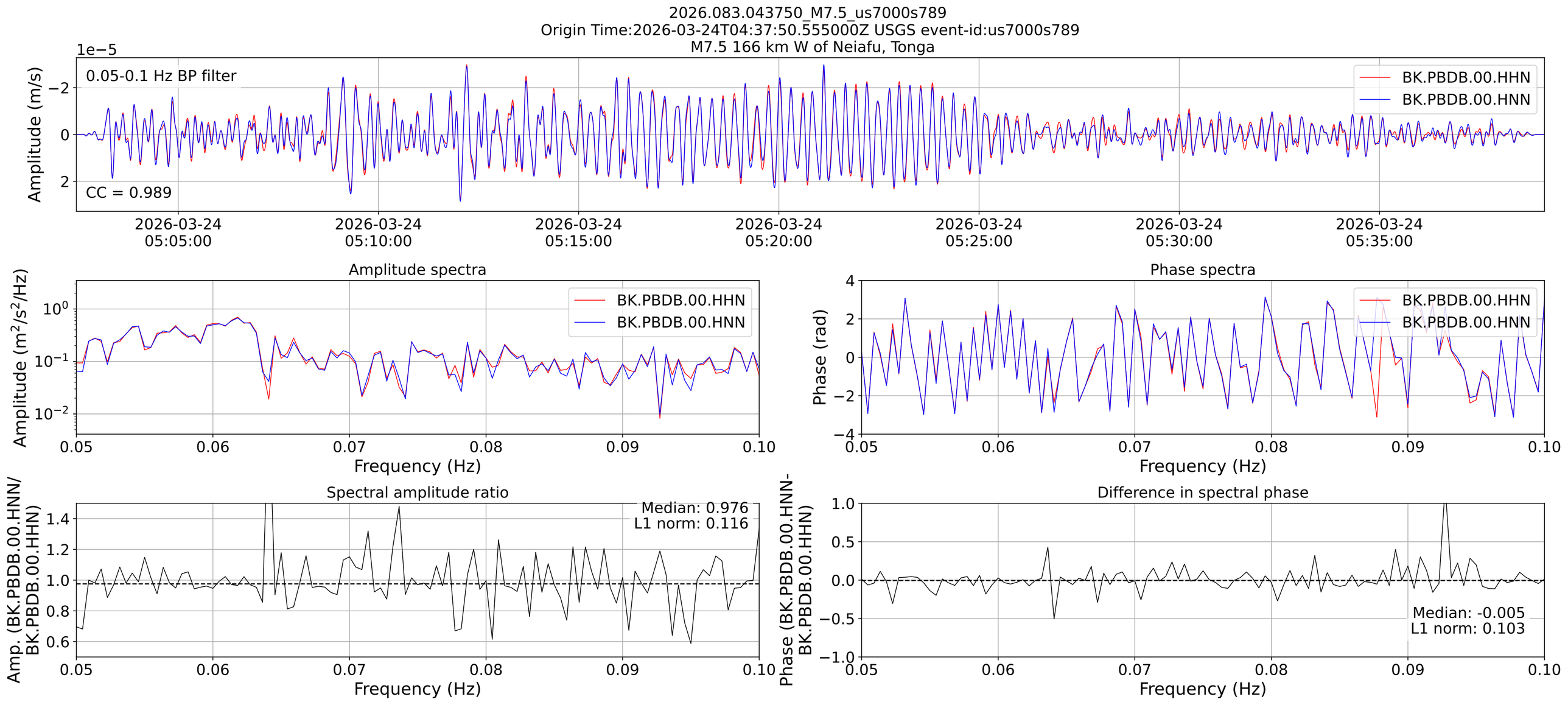

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.PACP.00.HHZ
BK.PACP.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PACP.00.HNZ/ BK.PACP.00.HHZ)
Median: 1.003
L1 norm: 0.102
Difference in spectral phase
Phase (BK.PACP.00.HNZ- BK.PACP.00.HHZ)
Median: 0.000
L1 norm: 0.099

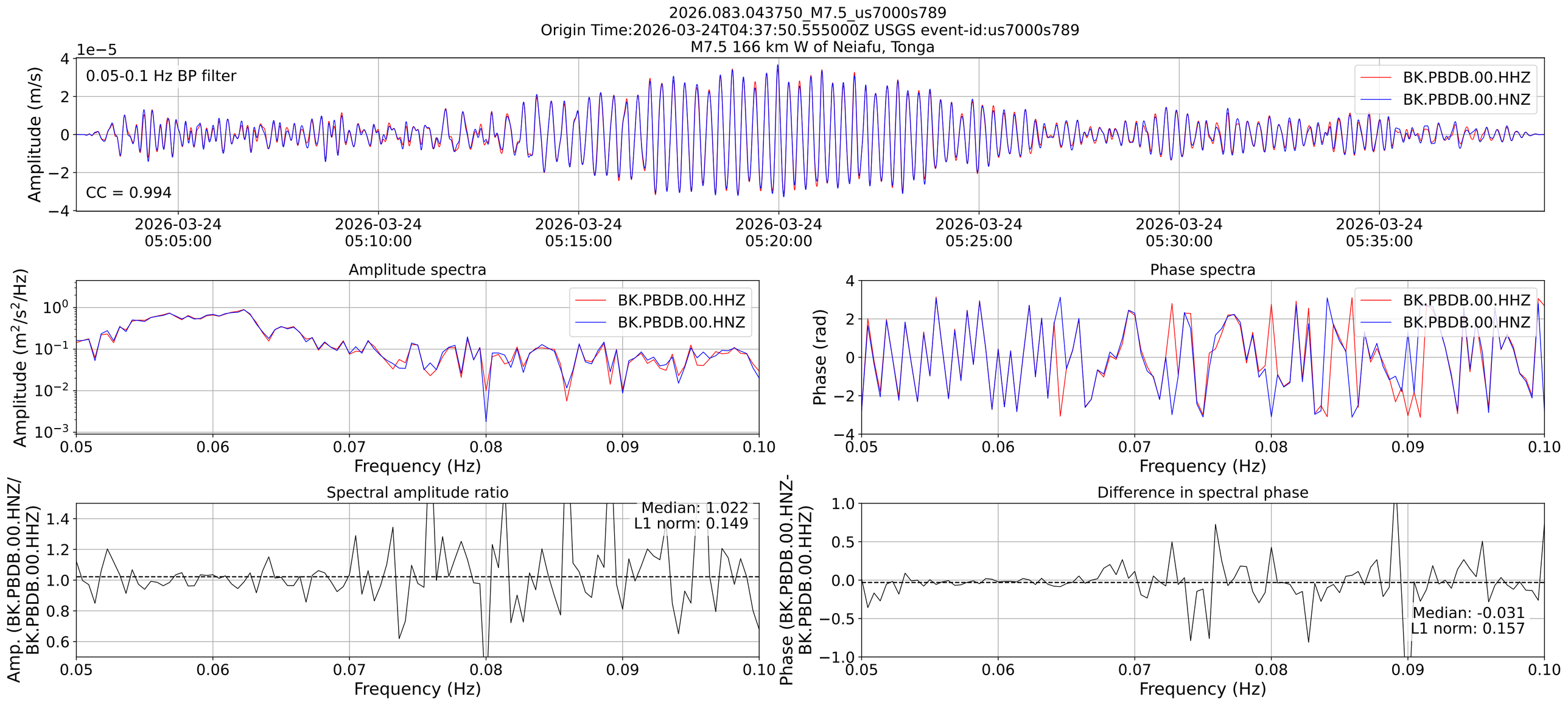

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.PATT.00.HHE
BK.PATT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNE/ BK.PATT.00.HHE)
Median: 1.035
L1 norm: 0.254
Difference in spectral phase
Phase (BK.PATT.00.HNE- BK.PATT.00.HHE)
Median: 0.022
L1 norm: 0.212

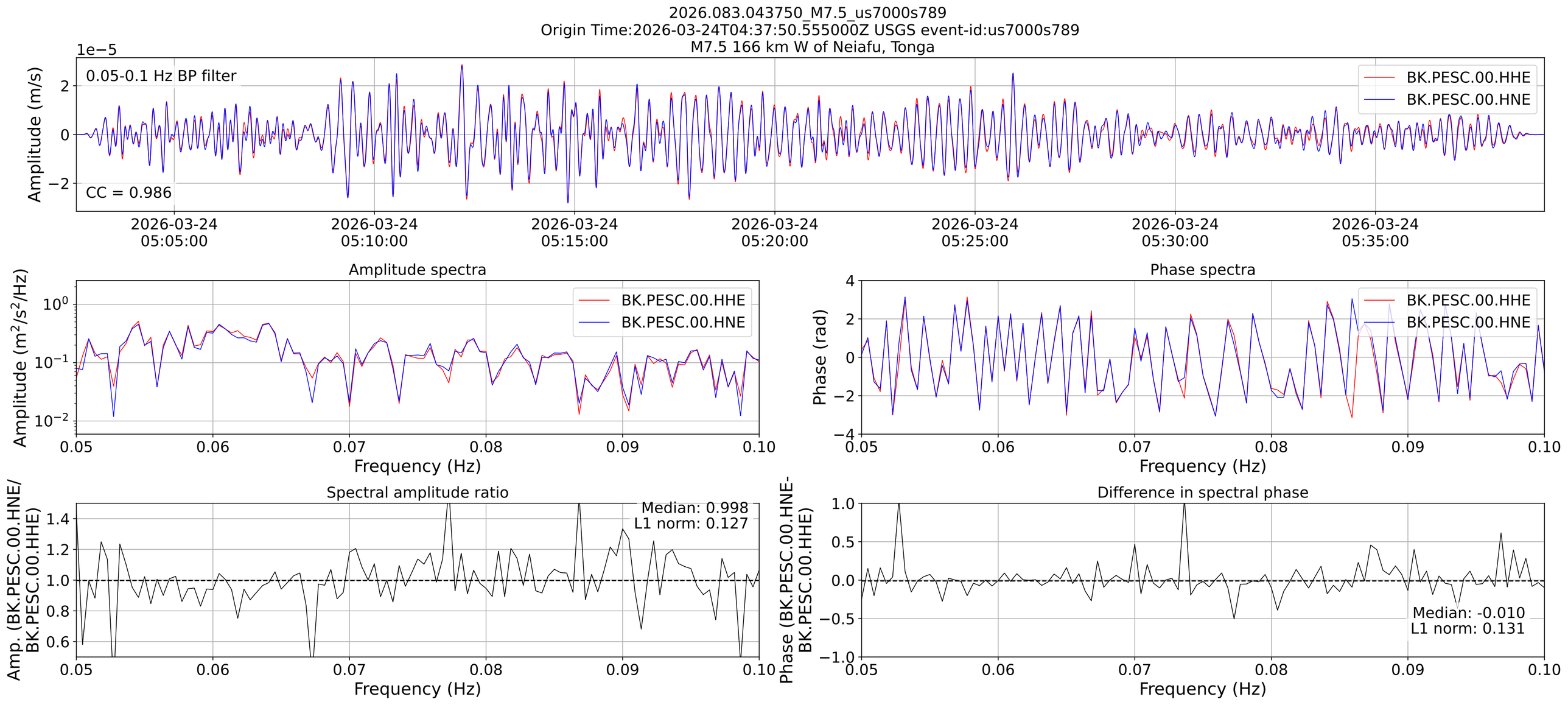

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.970
Amplitude (m/s)
BK.PATT.00.HHN
BK.PATT.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNN/ BK.PATT.00.HHN)
Median: 1.014
L1 norm: 0.222
Difference in spectral phase
Phase (BK.PATT.00.HNN- BK.PATT.00.HHN)
Median: 0.016
L1 norm: 0.203

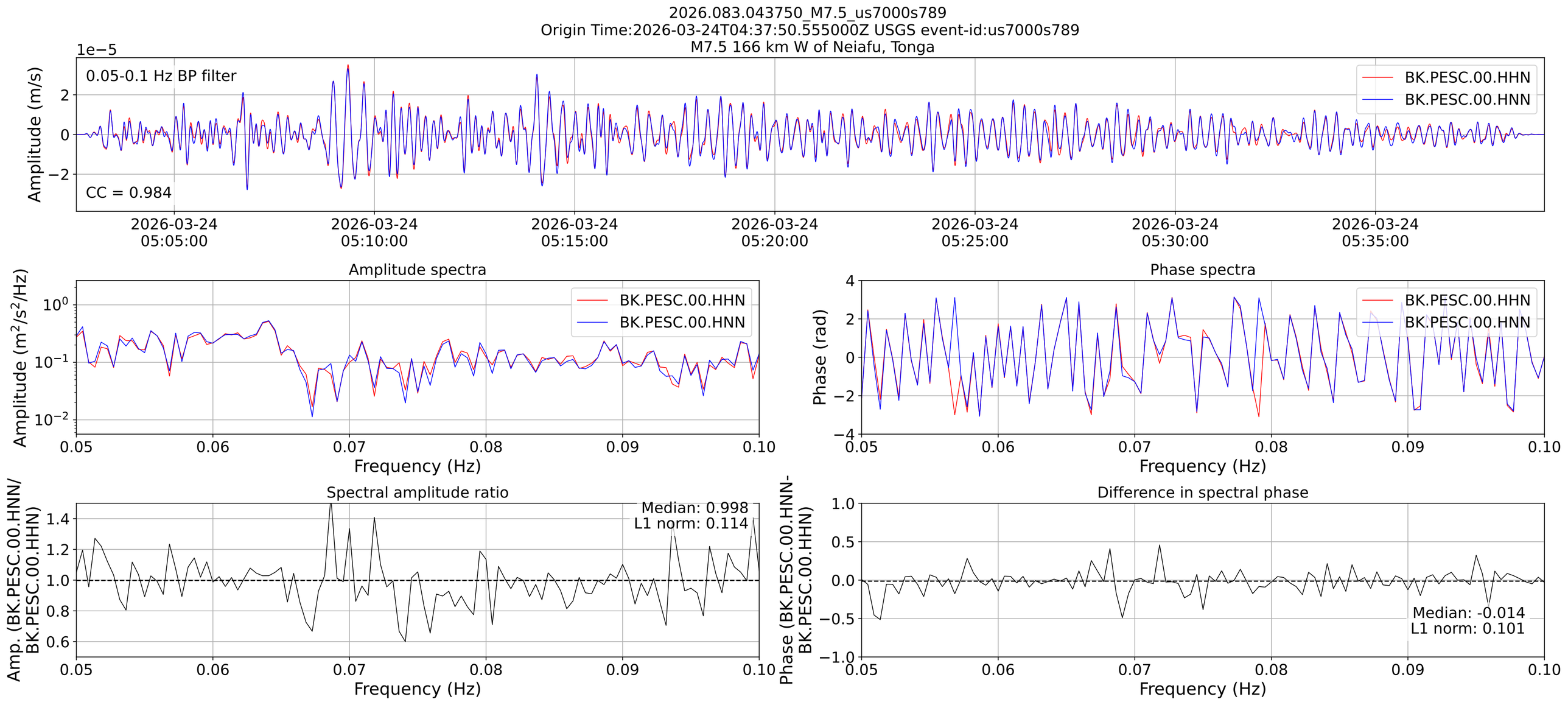

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.PATT.00.HHZ
BK.PATT.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PATT.00.HNZ/ BK.PATT.00.HHZ)
Median: 1.009
L1 norm: 0.177
Difference in spectral phase
Phase (BK.PATT.00.HNZ- BK.PATT.00.HHZ)
Median: 0.018
L1 norm: 0.189

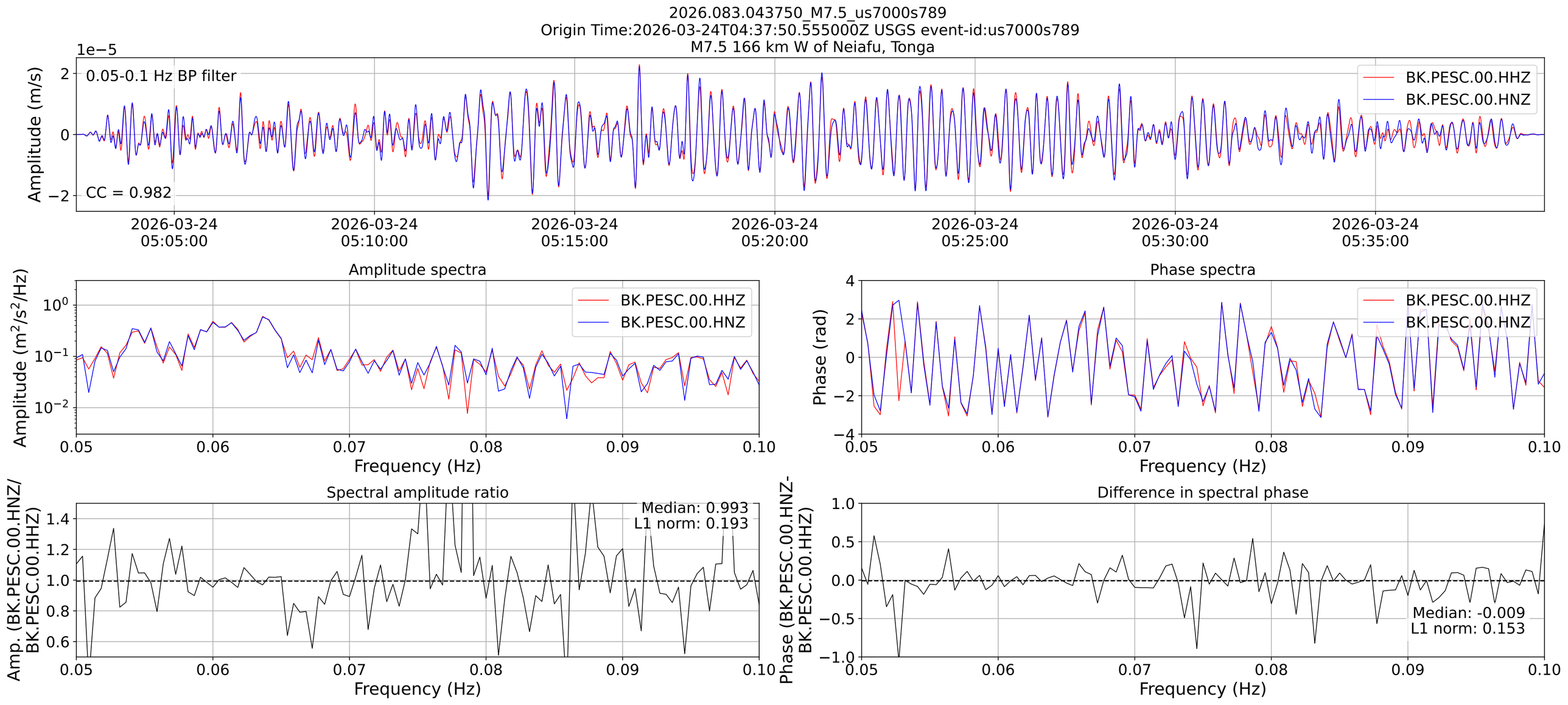

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.PBDB.00.HHE
BK.PBDB.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNE/ BK.PBDB.00.HHE)
Median: 1.010
L1 norm: 0.145
Difference in spectral phase
Phase (BK.PBDB.00.HNE- BK.PBDB.00.HHE)
Median: -0.016
L1 norm: 0.151

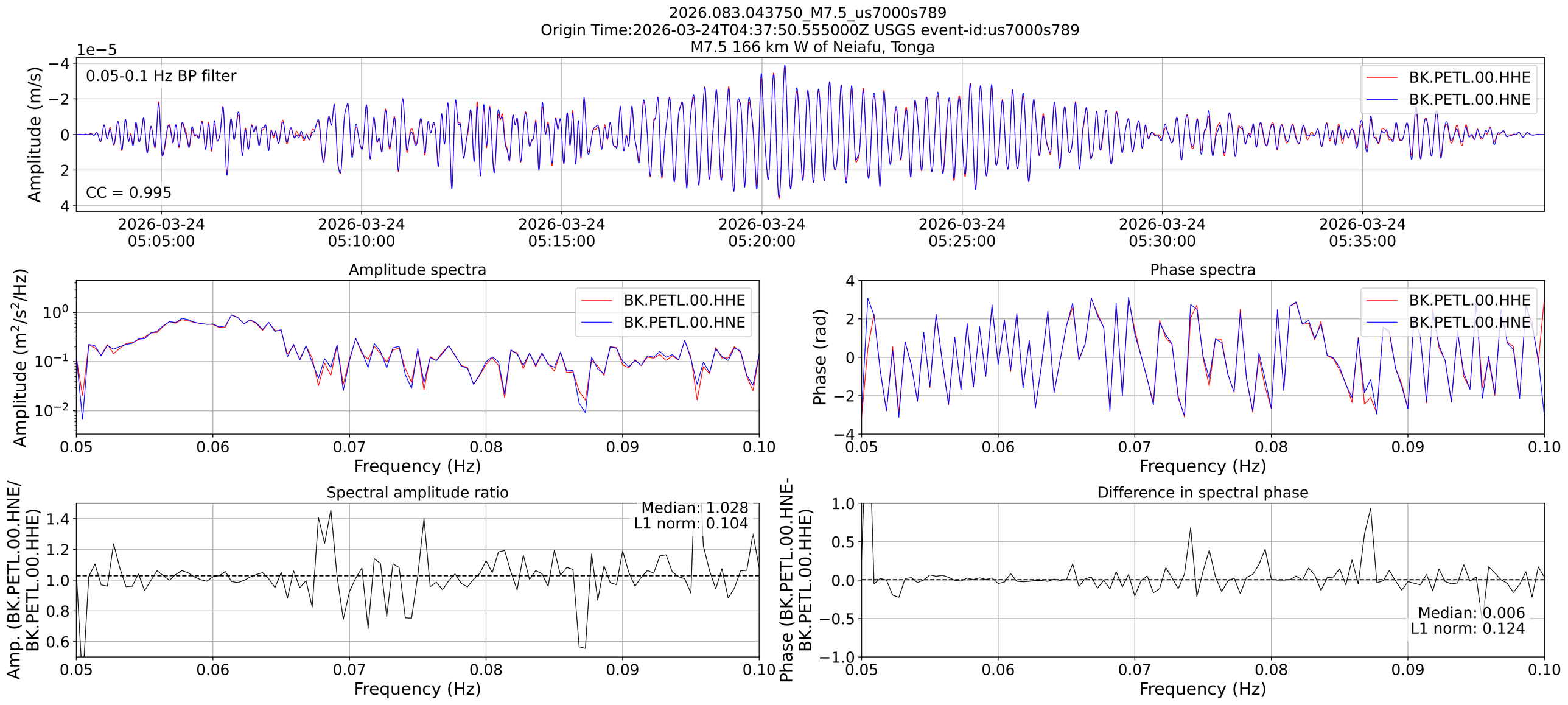

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.PBDB.00.HHN
BK.PBDB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNN/ BK.PBDB.00.HHN)
Median: 0.976
L1 norm: 0.116
Difference in spectral phase
Phase (BK.PBDB.00.HNN- BK.PBDB.00.HHN)
Median: -0.005
L1 norm: 0.103

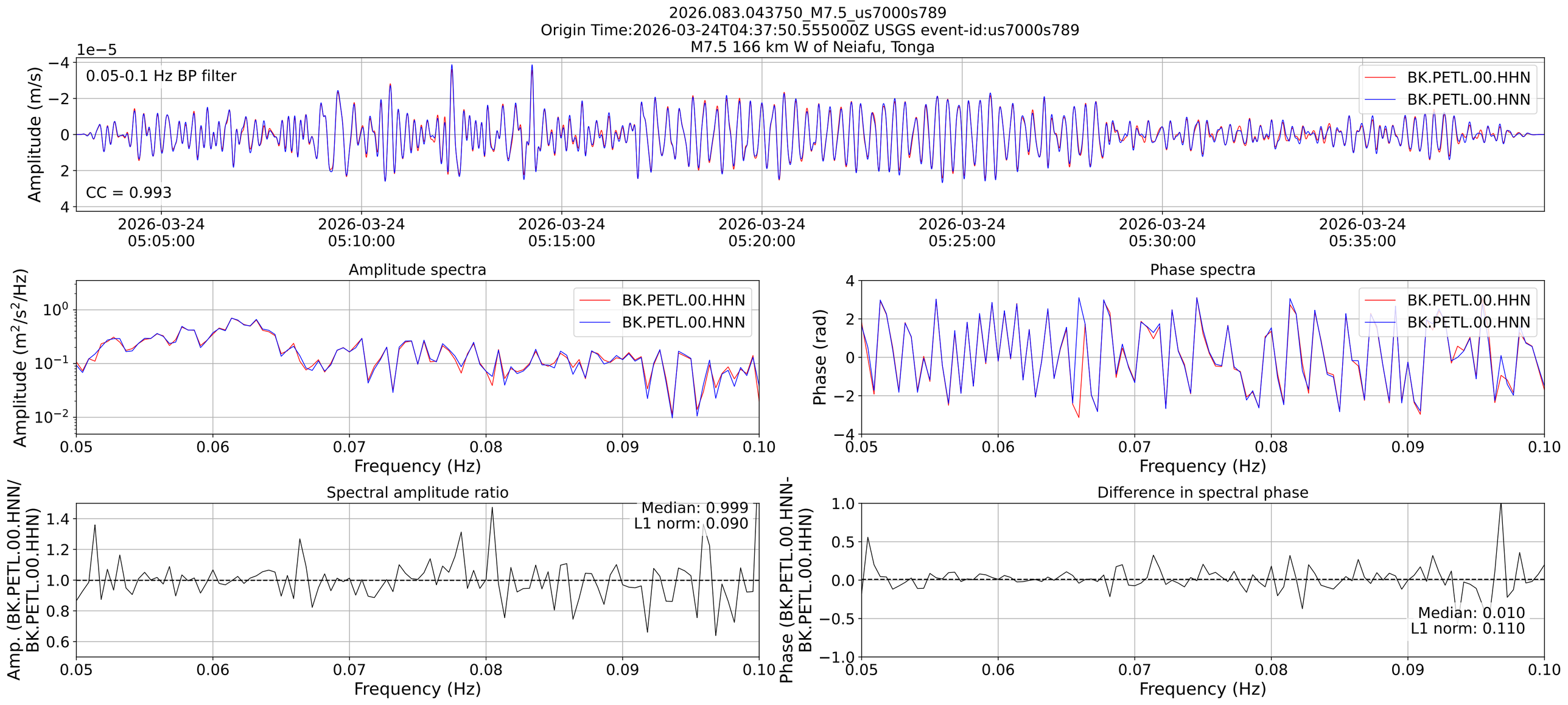

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.PBDB.00.HHZ
BK.PBDB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PBDB.00.HNZ/ BK.PBDB.00.HHZ)
Median: 1.022
L1 norm: 0.149
Difference in spectral phase
Phase (BK.PBDB.00.HNZ- BK.PBDB.00.HHZ)
Median: -0.031
L1 norm: 0.157

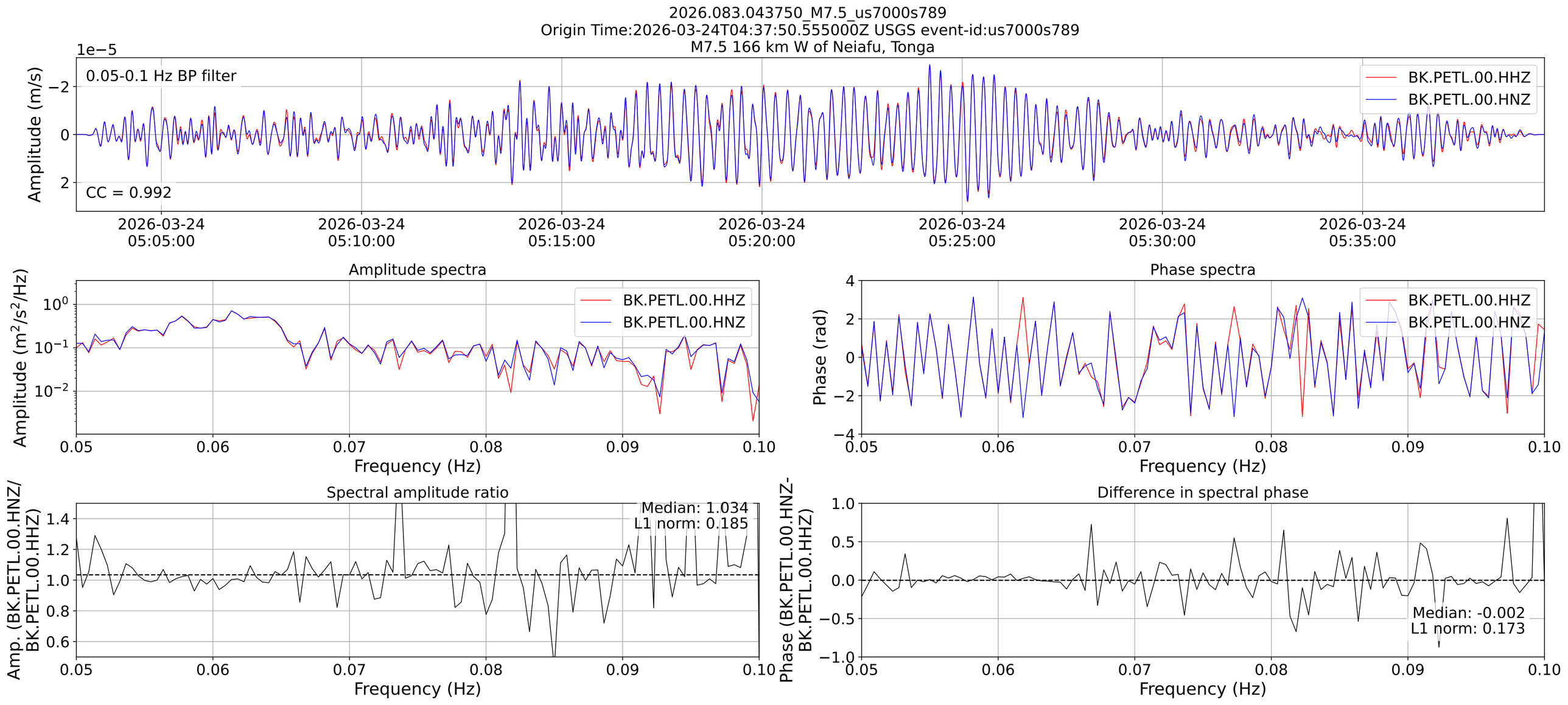

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.PESC.00.HHE
BK.PESC.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNE/ BK.PESC.00.HHE)
Median: 0.998
L1 norm: 0.127
Difference in spectral phase
Phase (BK.PESC.00.HNE- BK.PESC.00.HHE)
Median: -0.010
L1 norm: 0.131

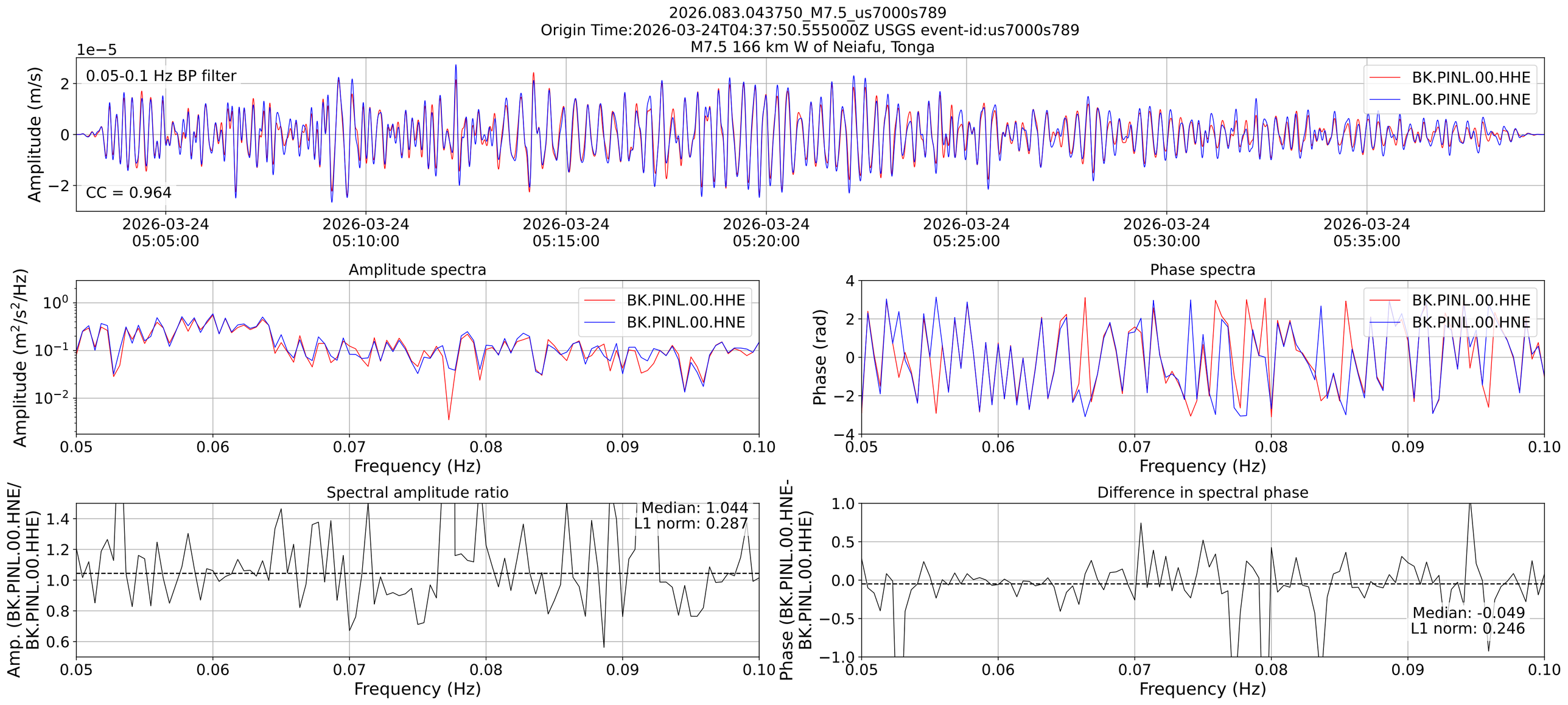

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.PESC.00.HHN
BK.PESC.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNN/ BK.PESC.00.HHN)
Median: 0.998
L1 norm: 0.114
Difference in spectral phase
Phase (BK.PESC.00.HNN- BK.PESC.00.HHN)
Median: -0.014
L1 norm: 0.101

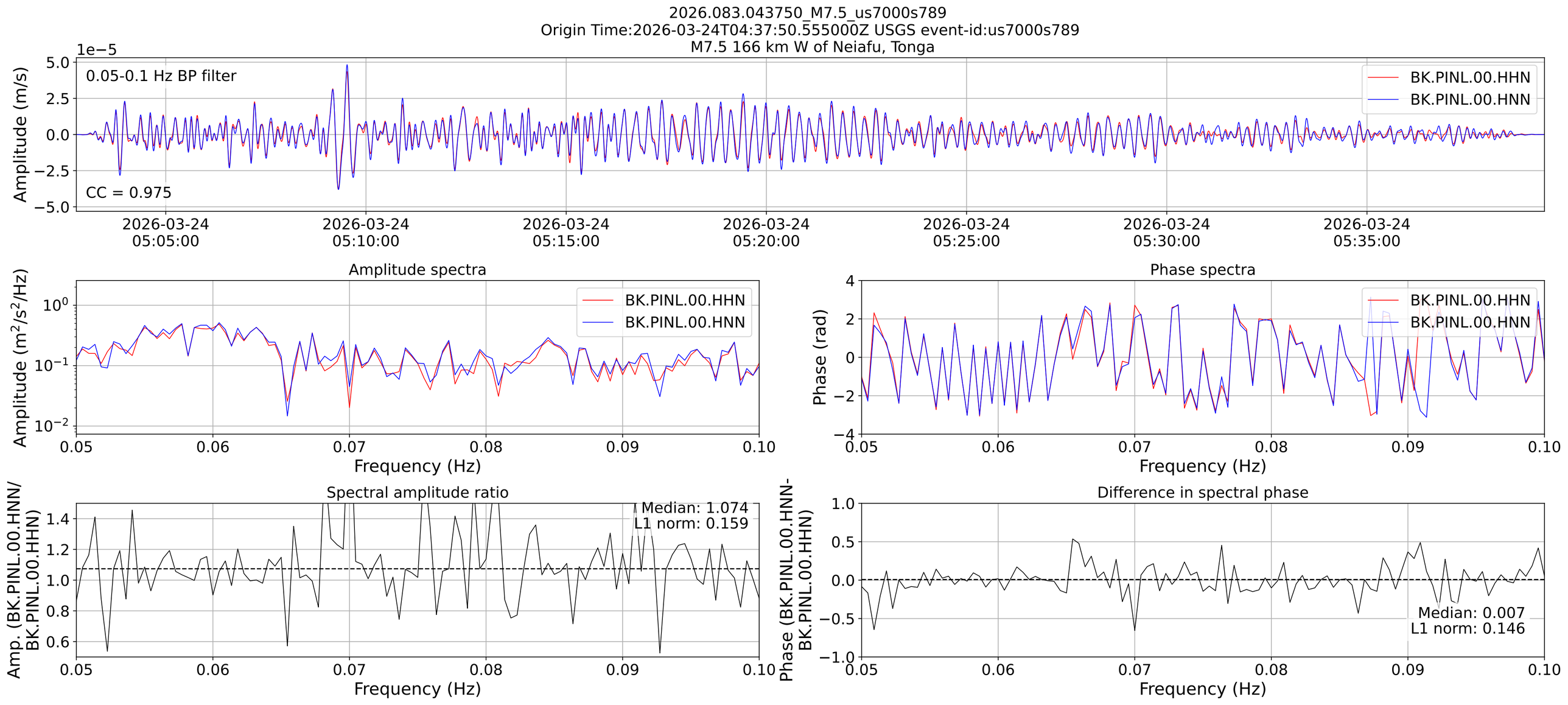

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.PESC.00.HHZ
BK.PESC.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PESC.00.HNZ/ BK.PESC.00.HHZ)
Median: 0.993
L1 norm: 0.193
Difference in spectral phase
Phase (BK.PESC.00.HNZ- BK.PESC.00.HHZ)
Median: -0.009
L1 norm: 0.153

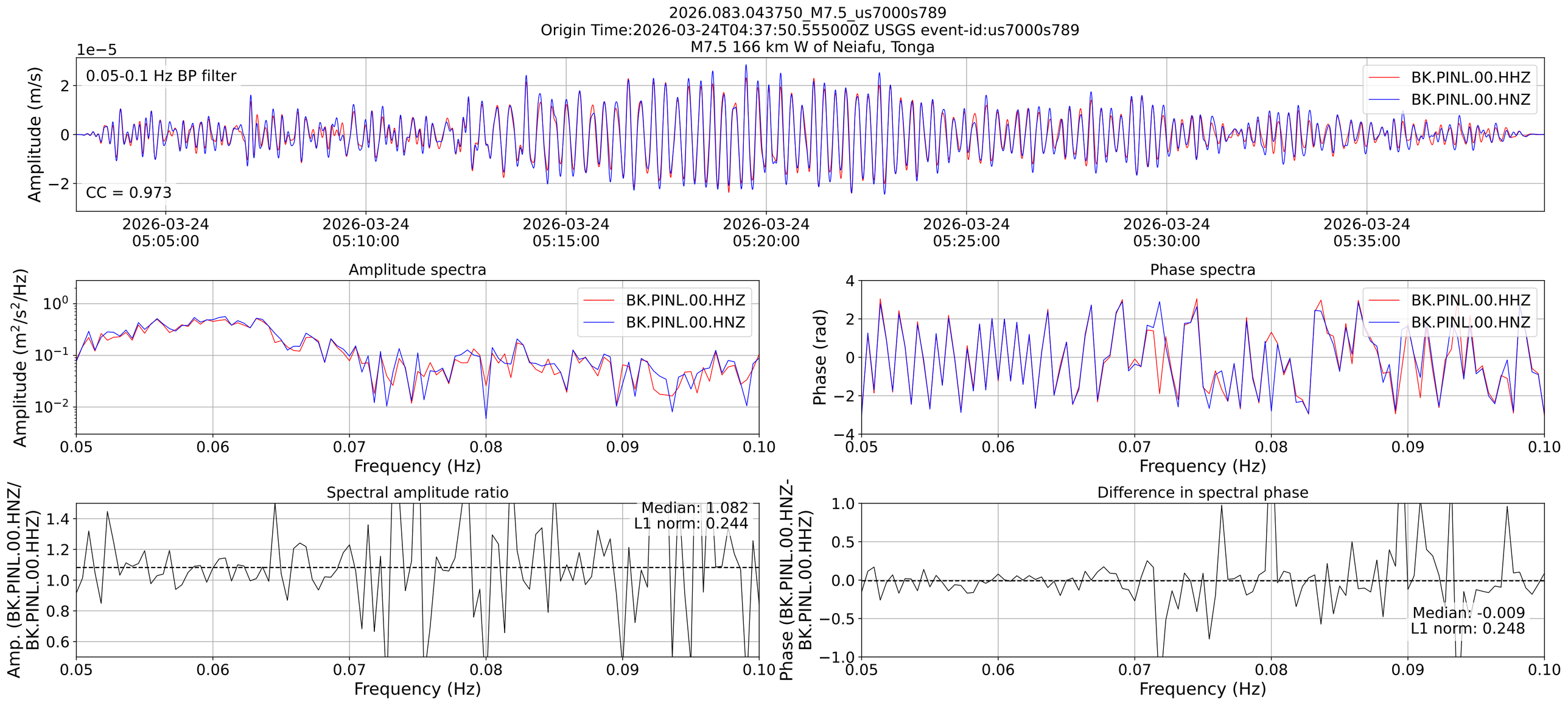

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.995
BK.PETL.00.HHE
BK.PETL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNE/ BK.PETL.00.HHE)
Median: 1.028
L1 norm: 0.104
Difference in spectral phase
Phase (BK.PETL.00.HNE- BK.PETL.00.HHE)
Median: 0.006
L1 norm: 0.124

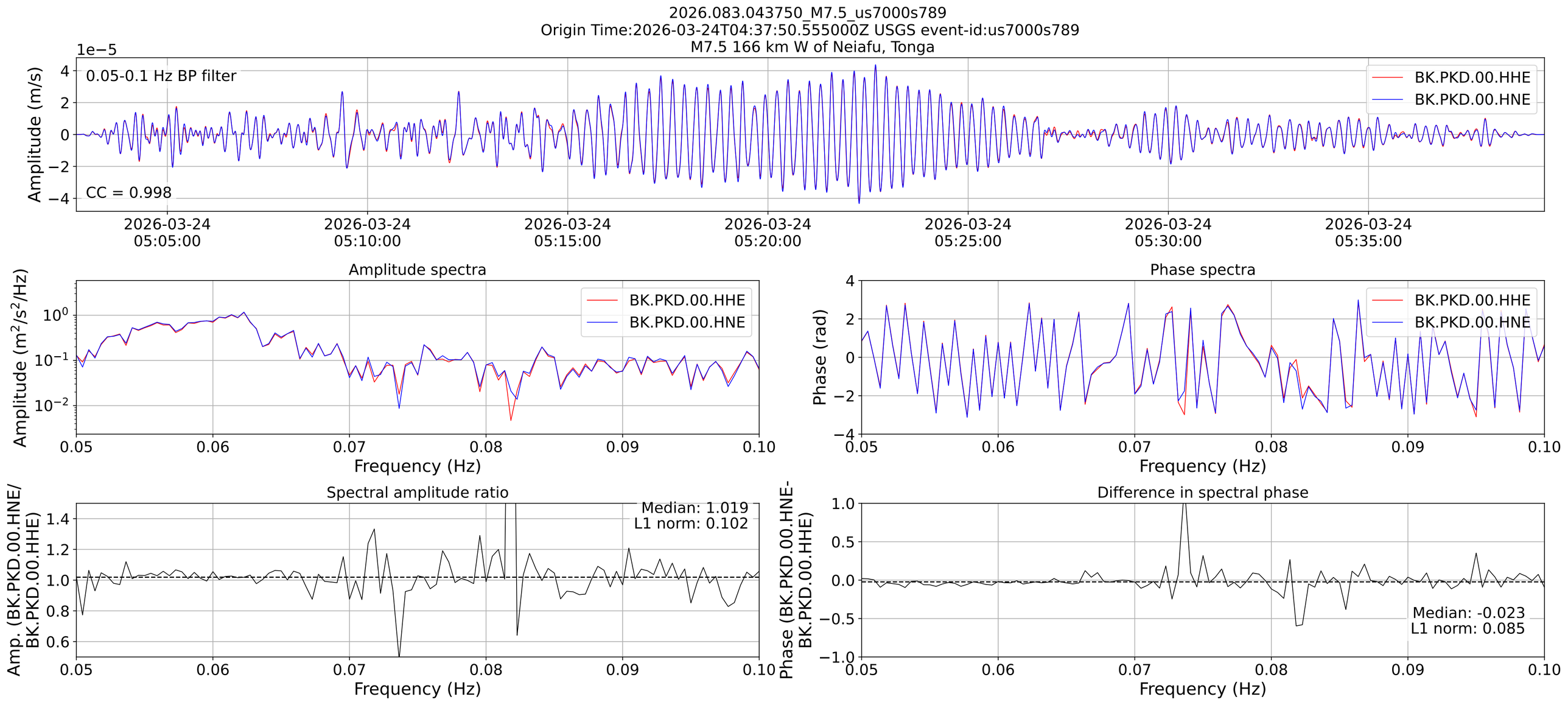

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.PETL.00.HHN
BK.PETL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNN/ BK.PETL.00.HHN)
Median: 0.999
L1 norm: 0.090
Difference in spectral phase
Phase (BK.PETL.00.HNN- BK.PETL.00.HHN)
Median: 0.010
L1 norm: 0.110

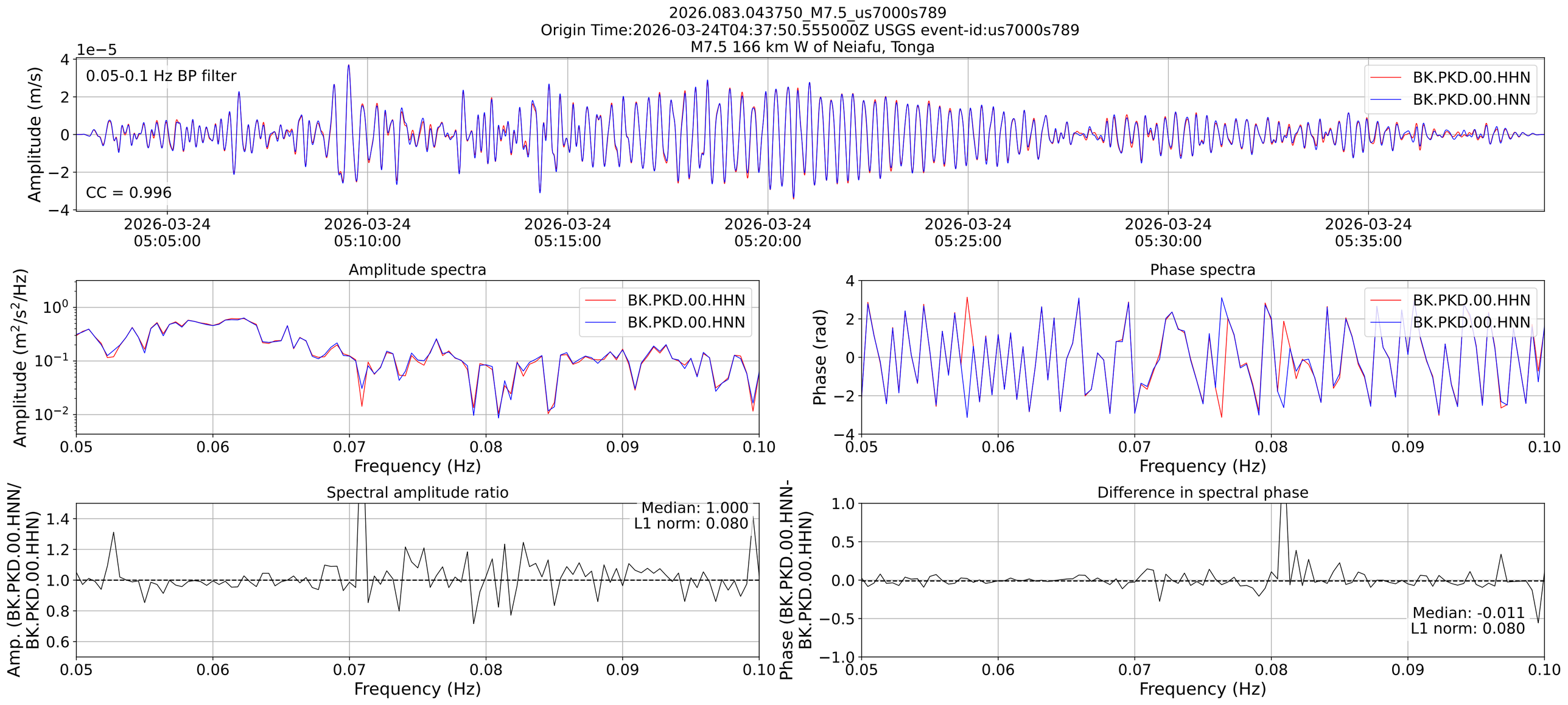

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.PETL.00.HHZ
BK.PETL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PETL.00.HNZ/ BK.PETL.00.HHZ)
Median: 1.034
L1 norm: 0.185
Difference in spectral phase
Phase (BK.PETL.00.HNZ- BK.PETL.00.HHZ)
Median: -0.002
L1 norm: 0.173

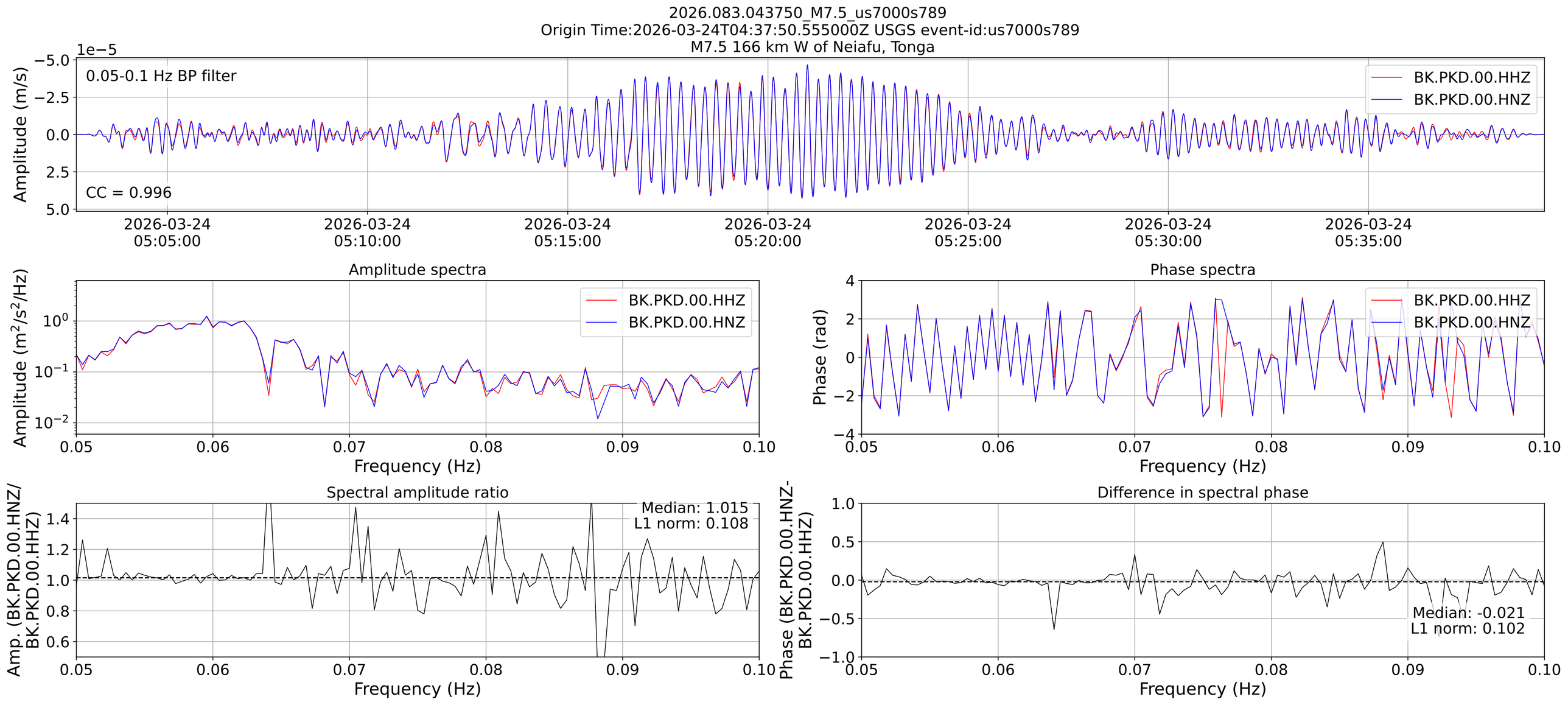

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.964
Amplitude (m/s)
BK.PINL.00.HHE
BK.PINL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNE/ BK.PINL.00.HHE)
Median: 1.044
L1 norm: 0.287
Difference in spectral phase
Phase (BK.PINL.00.HNE- BK.PINL.00.HHE)
Median: -0.049
L1 norm: 0.246

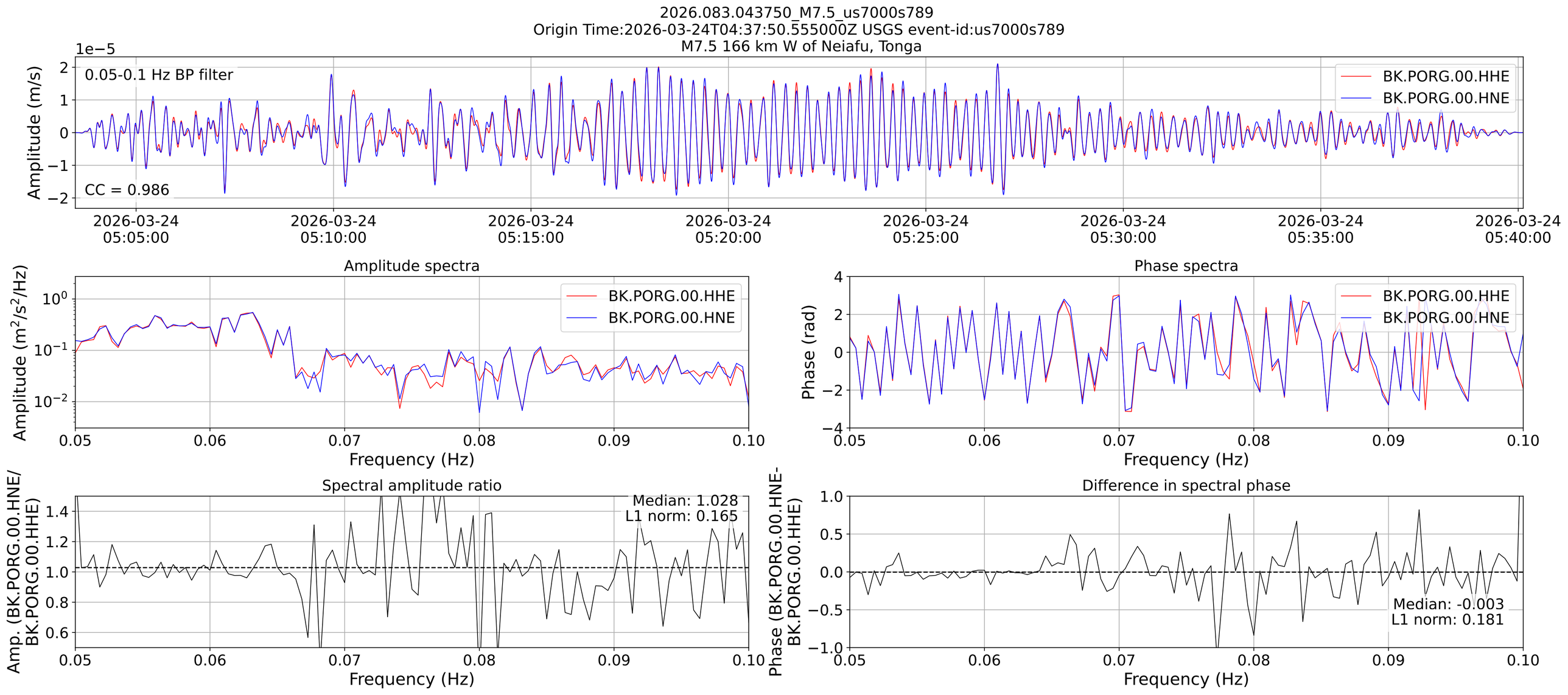

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.PINL.00.HHN
BK.PINL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNN/ BK.PINL.00.HHN)
Median: 1.074
L1 norm: 0.159
Difference in spectral phase
Phase (BK.PINL.00.HNN- BK.PINL.00.HHN)
Median: 0.007
L1 norm: 0.146

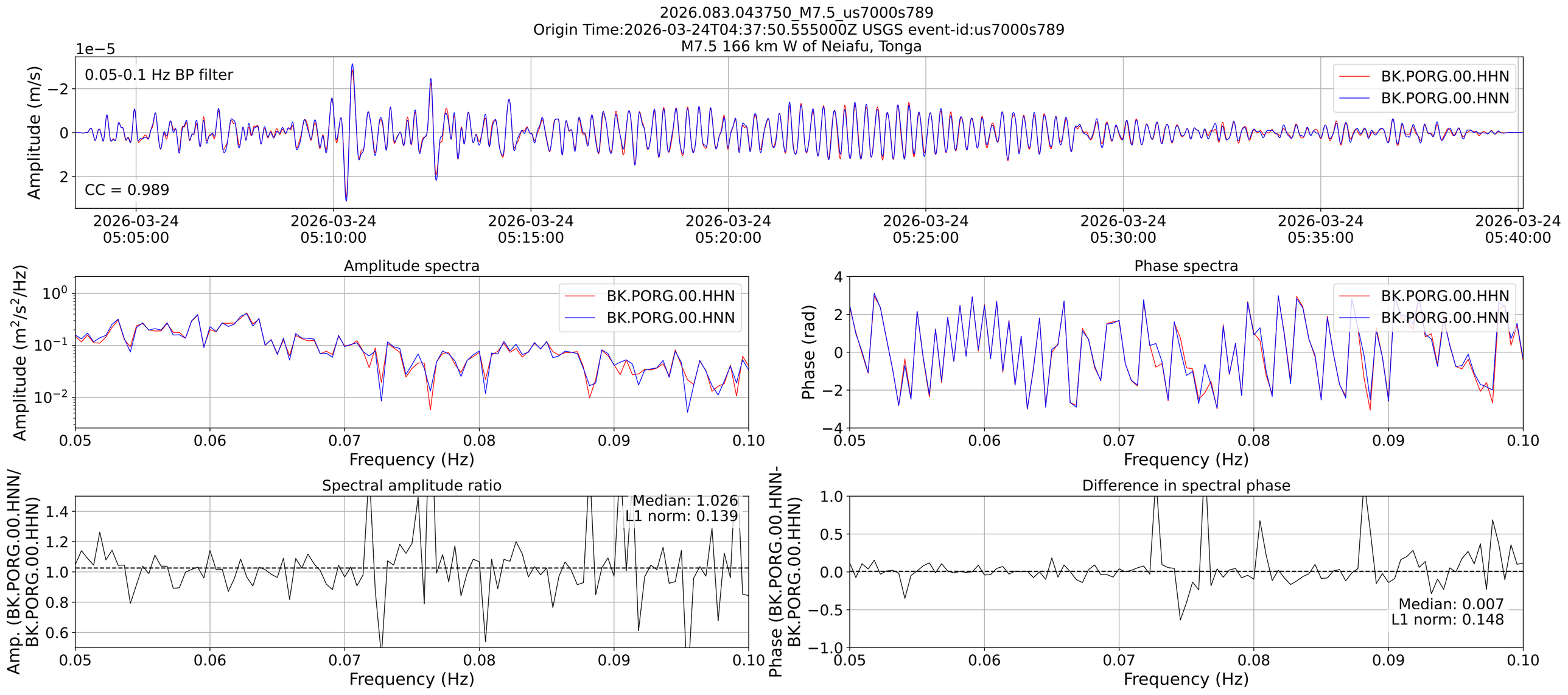

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.973
Amplitude (m/s)
BK.PINL.00.HHZ
BK.PINL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PINL.00.HNZ/ BK.PINL.00.HHZ)
Median: 1.082
L1 norm: 0.244
Difference in spectral phase
Phase (BK.PINL.00.HNZ-BK.PINL.00.HHZ)
Median: -0.009
L1 norm: 0.248

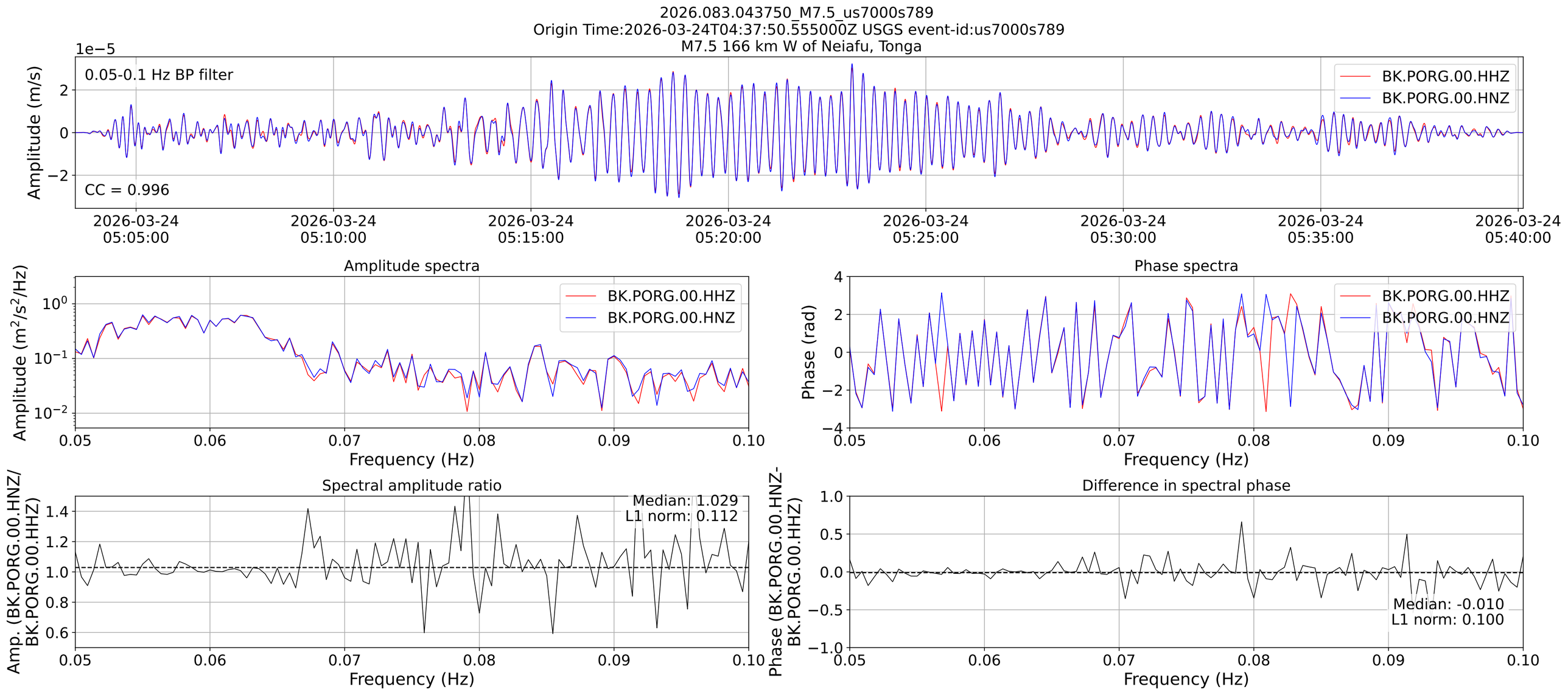

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.998
Amplitude (m/s)
BK.PKD.00.HHE
BK.PKD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PKD.00.HNE/ BK.PKD.00.HHE)
Median: 1.019
L1 norm: 0.102
Difference in spectral phase
Phase (BK.PKD.00.HNE- BK.PKD.00.HHE)
Median: -0.023
L1 norm: 0.085

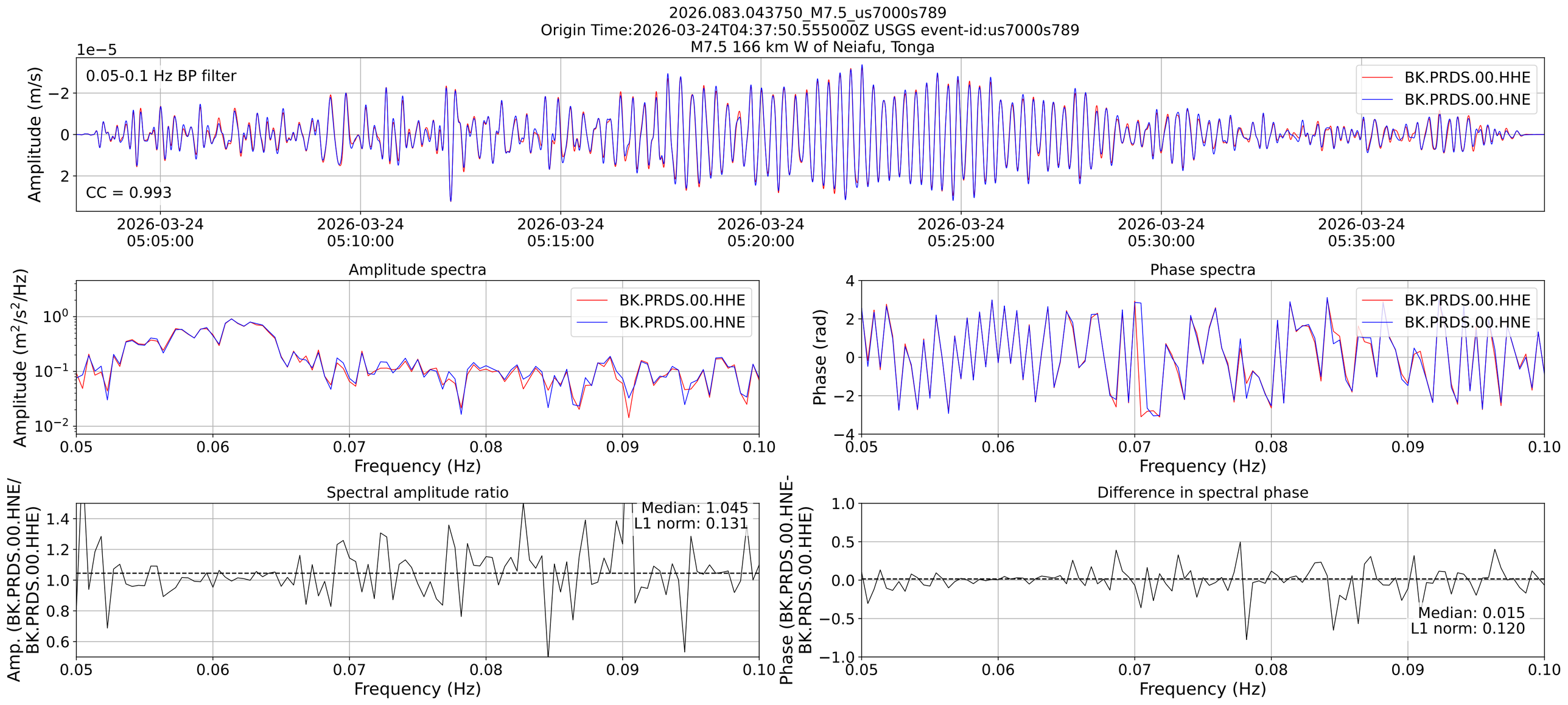

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.PKD.00.HHN
BK.PKD.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.000
L1 norm: 0.080
Amp. (BK.PKD.00.HNN/ BK.PKD.00.HHN)
Difference in spectral phase
Phase (BK.PKD.00.HNN- BK.PKD.00.HHN)
Median: -0.011
L1 norm: 0.080

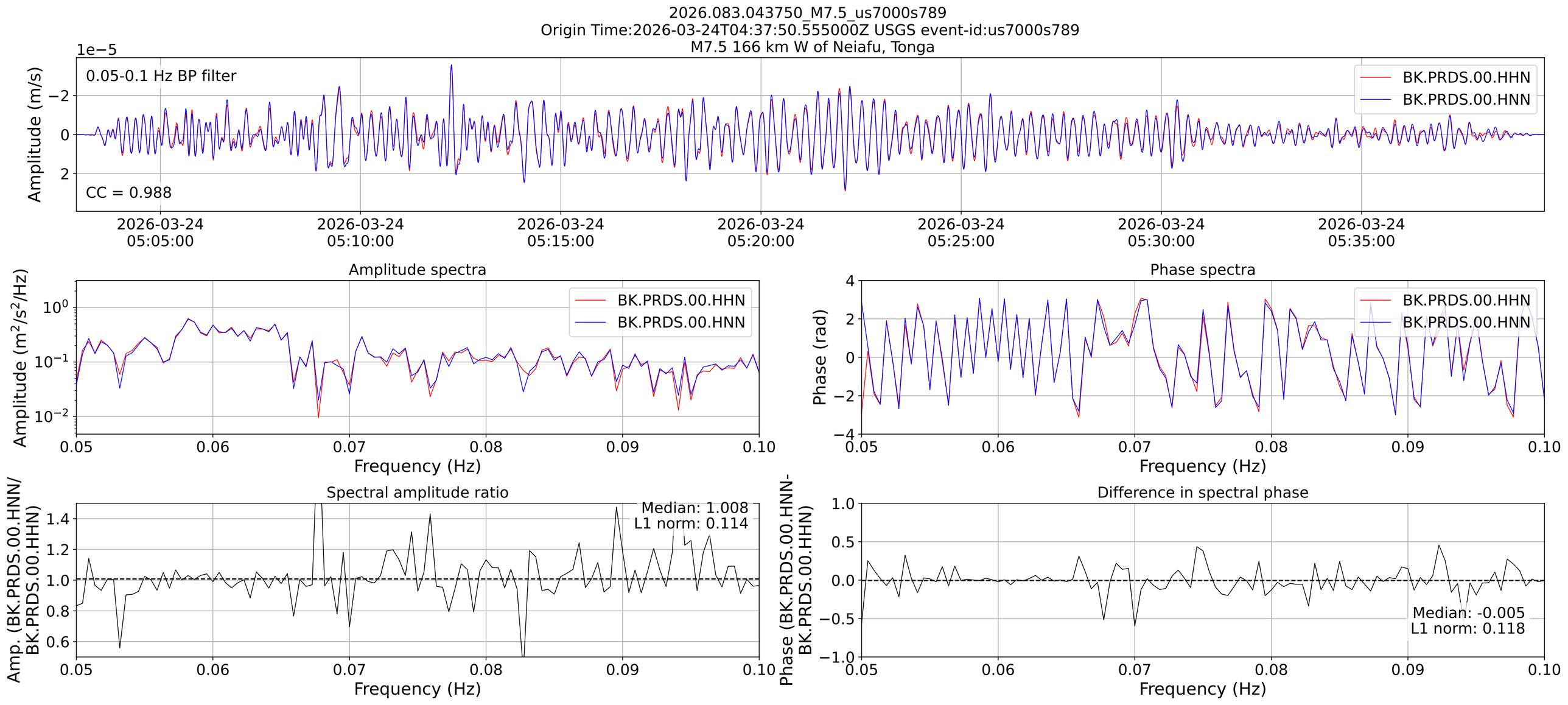

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.PKD.00.HHZ
BK.PKD.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.015
L1 norm: 0.108
Amp. (BK.PKD.00.HNZ/ BK.PKD.00.HHZ)
Difference in spectral phase
Phase (BK.PKD.00.HNZ- BK.PKD.00.HHZ)
Median: -0.021
L1 norm: 0.102

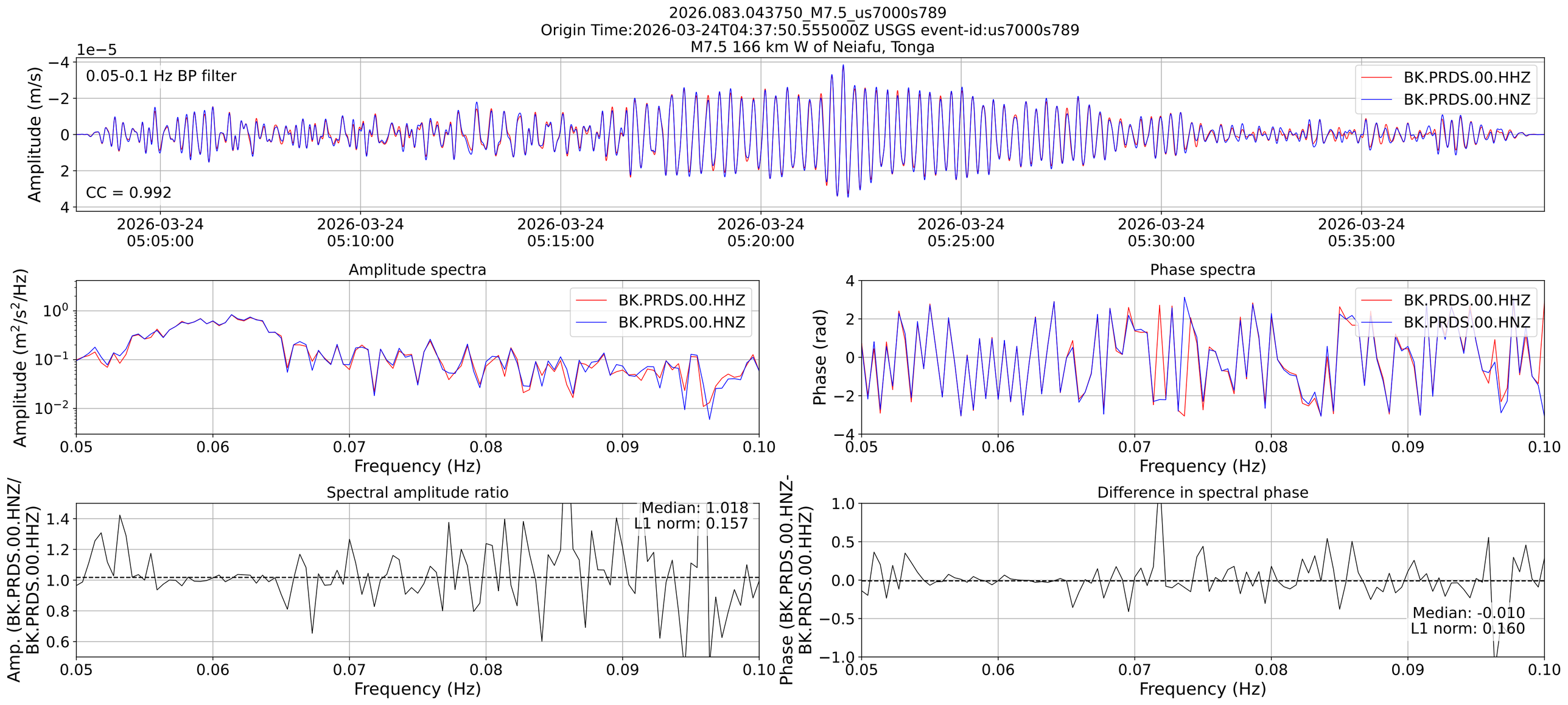

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.PORG.00.HHE
BK.PORG.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORG.00.HNE/ BK.PORG.00.HHE)
Median: 1.028
L1 norm: 0.165
Difference in spectral phase
Phase (BK.PORG.00.HNE- BK.PORG.00.HHE)
Median: -0.003
L1 norm: 0.181

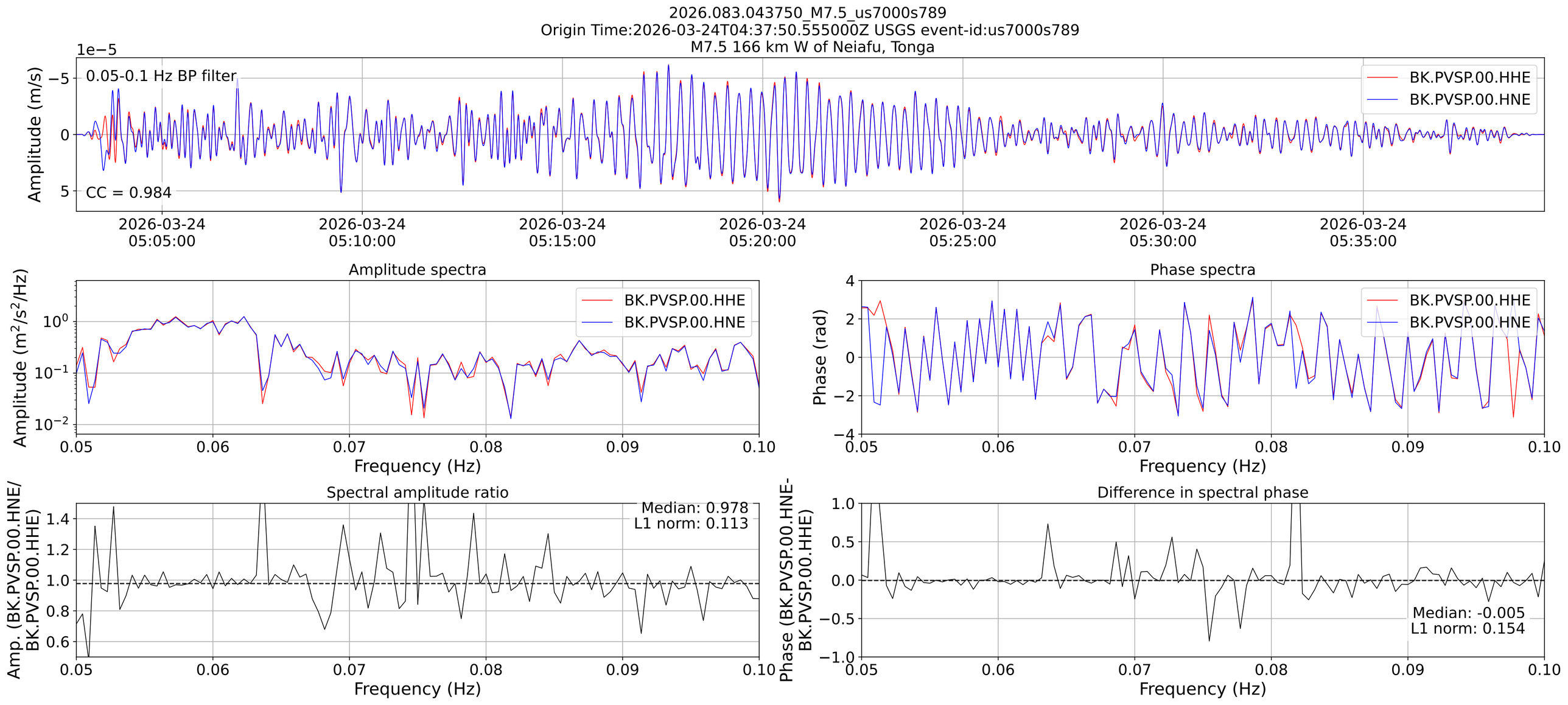

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.PORG.00.HHN
BK.PORG.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORG.00.HNN/ BK.PORG.00.HHN)
Median: 1.026
L1 norm: 0.139
Difference in spectral phase
Phase (BK.PORG.00.HNN- BK.PORG.00.HHN)
Median: 0.007
L1 norm: 0.148

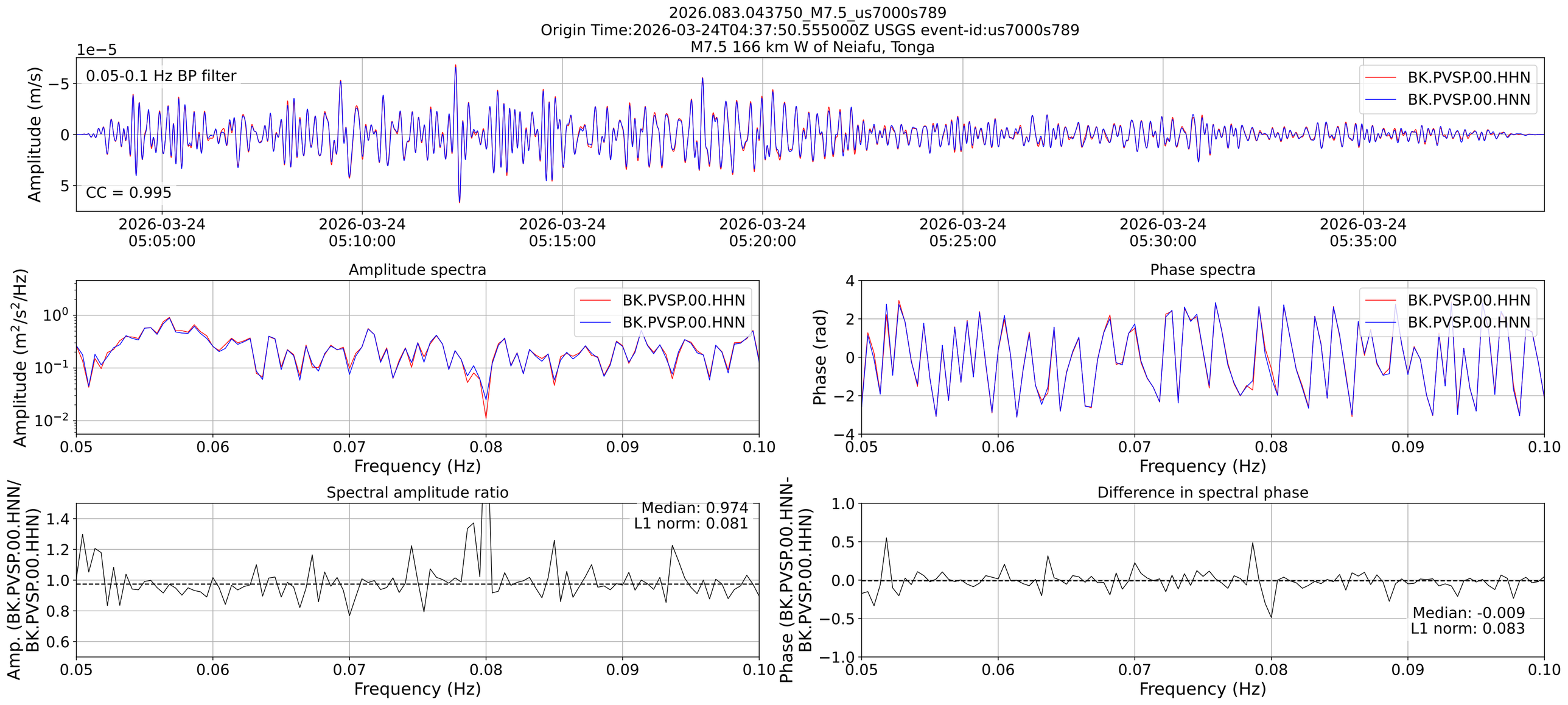

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.PORG.00.HHZ
BK.PORG.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PORG.00.HNZ/ BK.PORG.00.HHZ)
Median: 1.029
L1 norm: 0.112
Difference in spectral phase
Phase (BK.PORG.00.HNZ- BK.PORG.00.HHZ)
Median: -0.010
L1 norm: 0.100

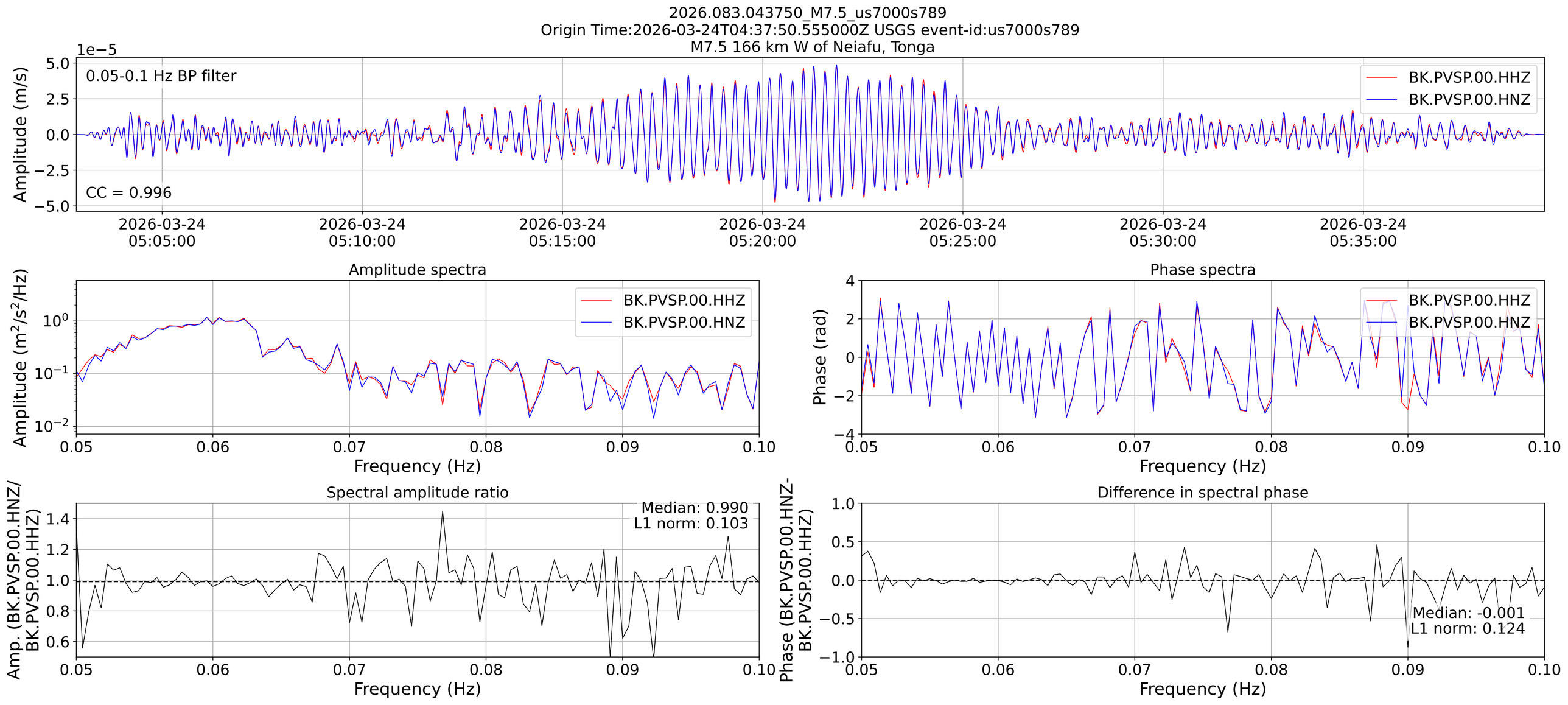

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.PRDS.00.HHE
BK.PRDS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNE/ BK.PRDS.00.HHE)
Median: 1.045
L1 norm: 0.131
Difference in spectral phase
Phase (BK.PRDS.00.HNE- BK.PRDS.00.HHE)
Median: 0.015
L1 norm: 0.120

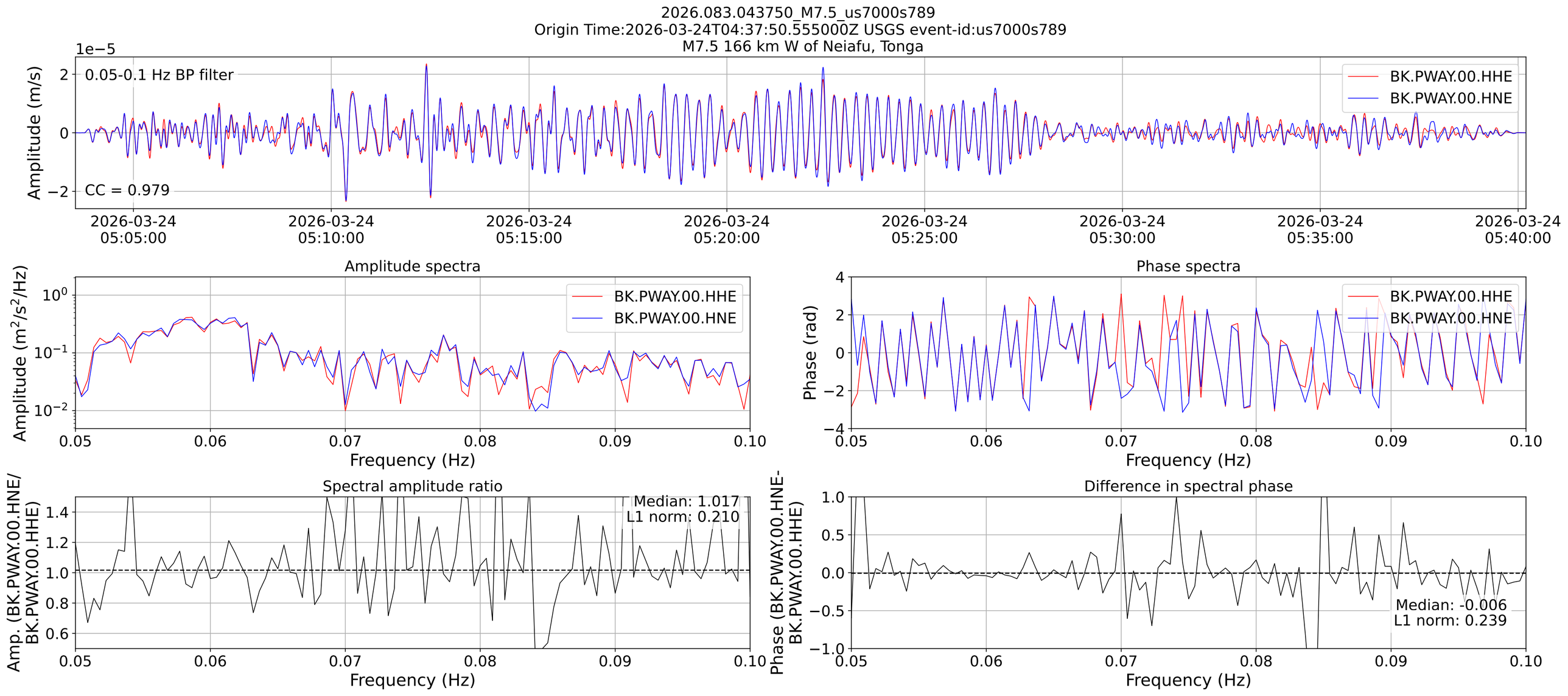

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.PRDS.00.HHN
BK.PRDS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNN/ BK.PRDS.00.HHN)
Median: 1.008
L1 norm: 0.114
Difference in spectral phase
Phase (BK.PRDS.00.HNN- BK.PRDS.00.HHN)
Median: -0.005
L1 norm: 0.118

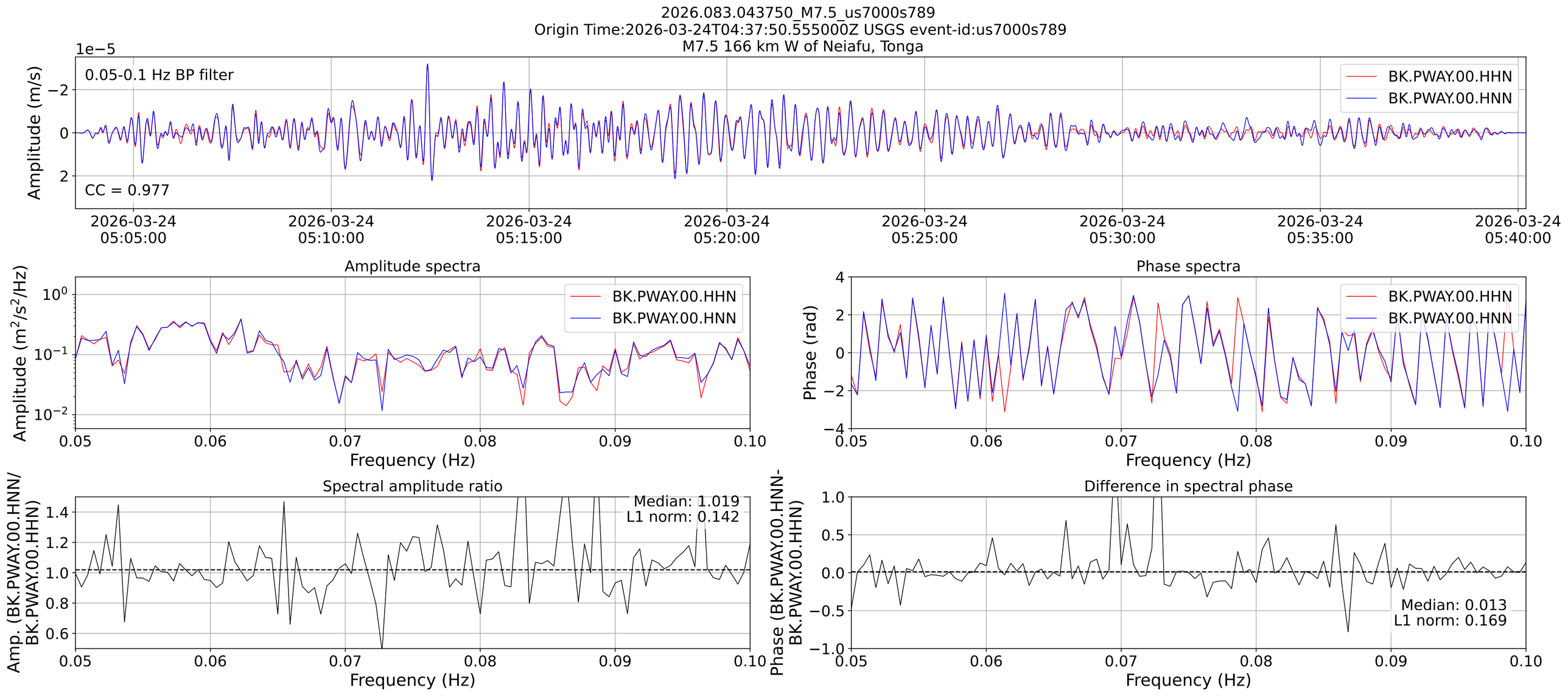

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.992
BK.PRDS.00.HHZ
BK.PRDS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PRDS.00.HNZ/ BK.PRDS.00.HHZ)
Median: 1.018
L1 norm: 0.157
Difference in spectral phase
Phase (BK.PRDS.00.HNZ- BK.PRDS.00.HHZ)
Median: -0.010
L1 norm: 0.160

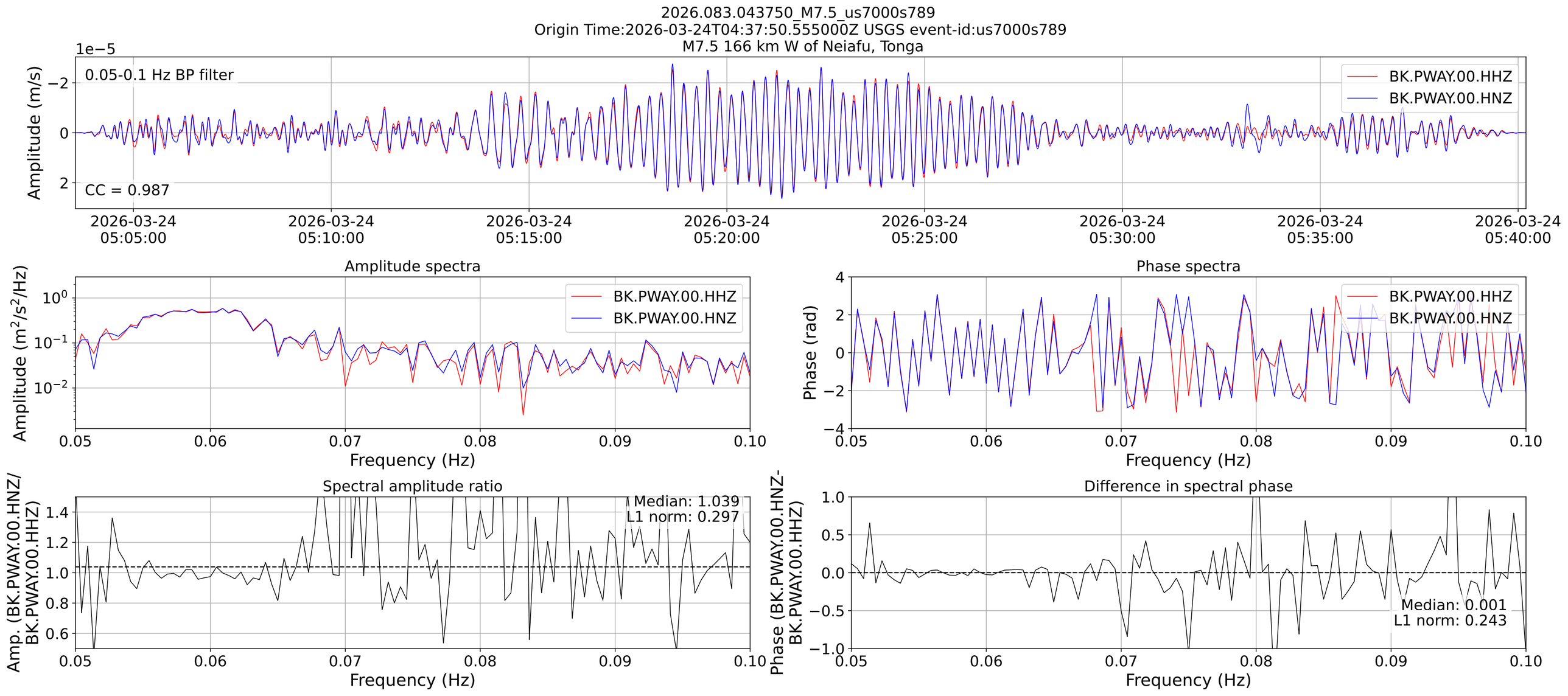

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.PVSP.00.HHE
BK.PVSP.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNE/ BK.PVSP.00.HHE)
Median: 0.978
L1 norm: 0.113
Difference in spectral phase
Phase (BK.PVSP.00.HNE- BK.PVSP.00.HHE)
Median: -0.005
L1 norm: 0.154

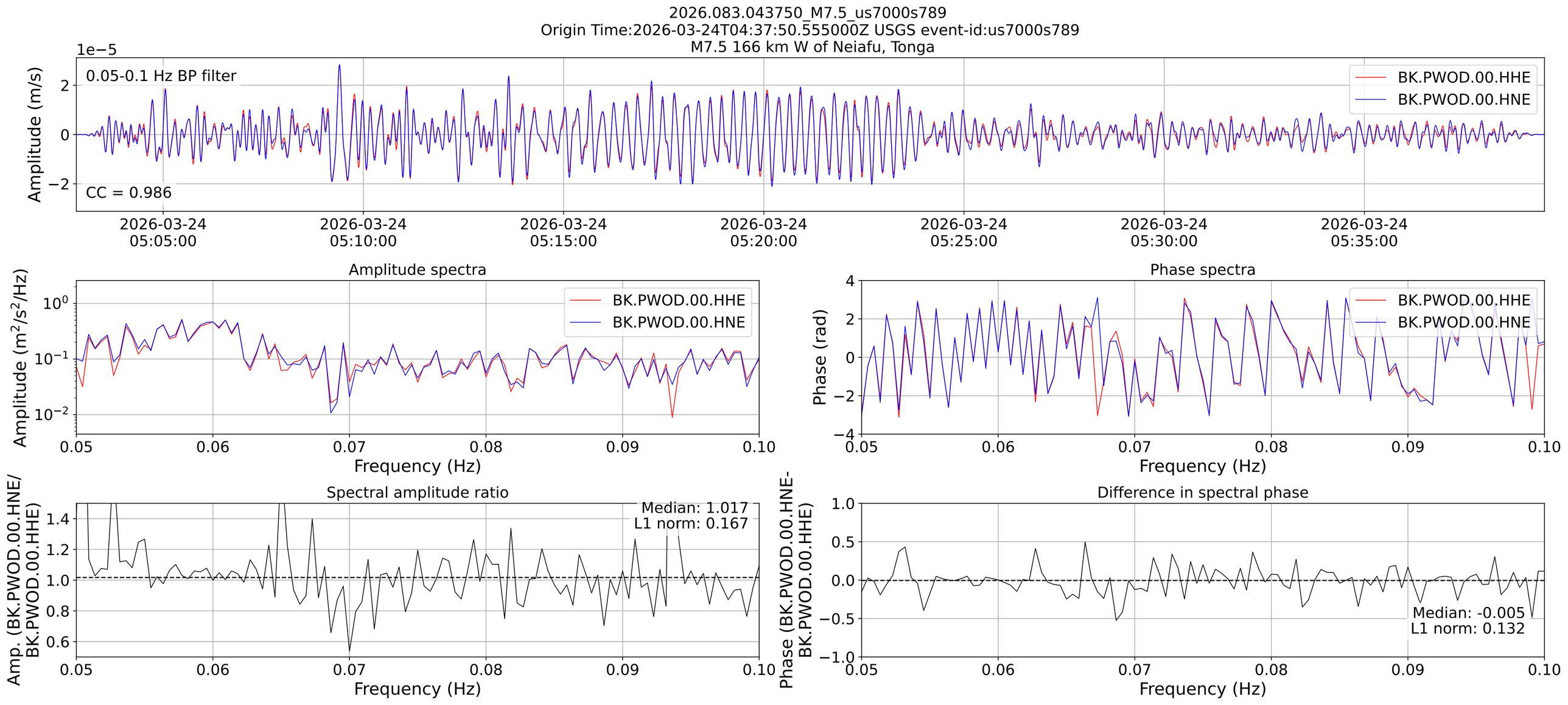

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.PVSP.00.HHN
BK.PVSP.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNN/ BK.PVSP.00.HHN)
Median: 0.974
L1 norm: 0.081
Difference in spectral phase
Phase (BK.PVSP.00.HNN- BK.PVSP.00.HHN)
Median: -0.009
L1 norm: 0.083

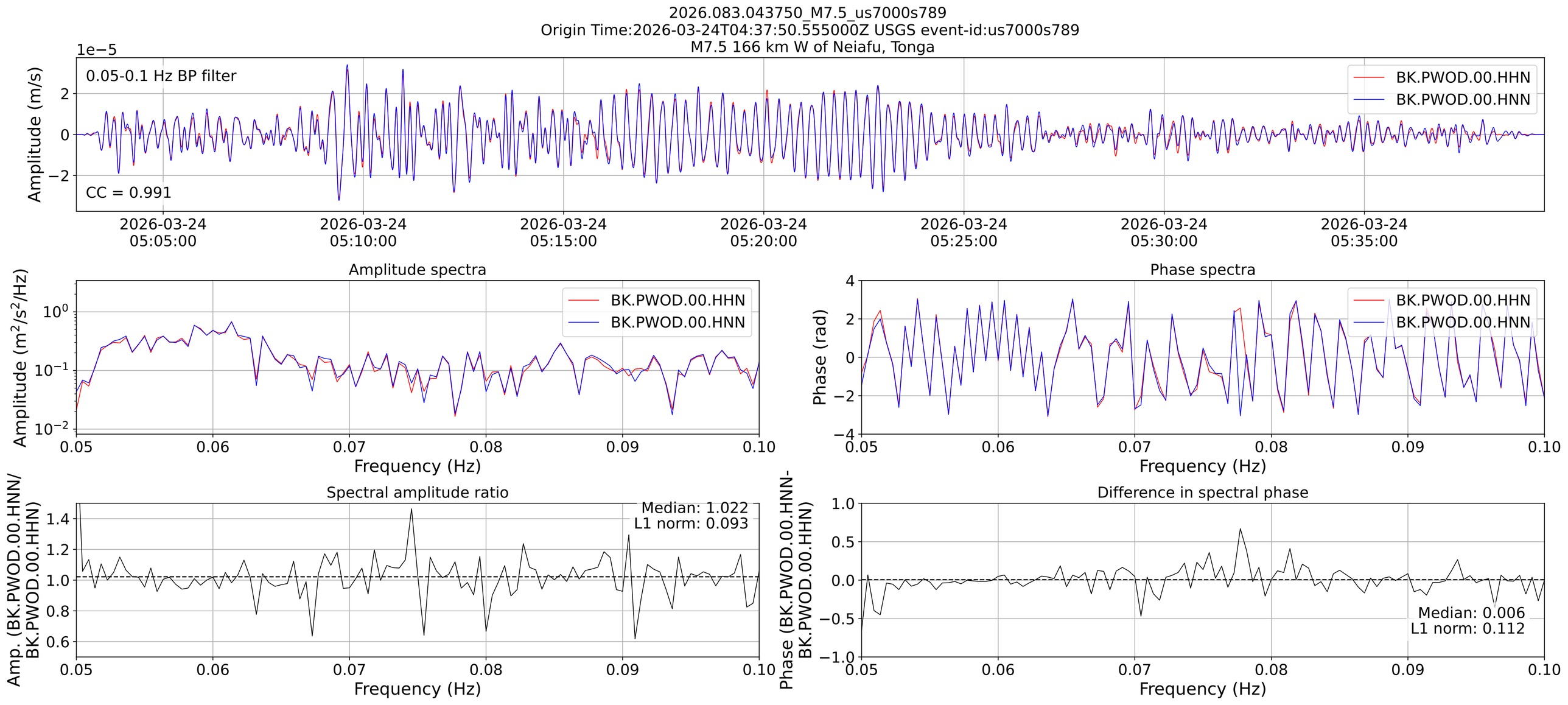

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.PVSP.00.HHZ
BK.PVSP.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PVSP.00.HNZ/ BK.PVSP.00.HHZ)
Median: 0.990
L1 norm: 0.103
Difference in spectral phase
Phase (BK.PVSP.00.HNZ- BK.PVSP.00.HHZ)
Median: -0.001
L1 norm: 0.124

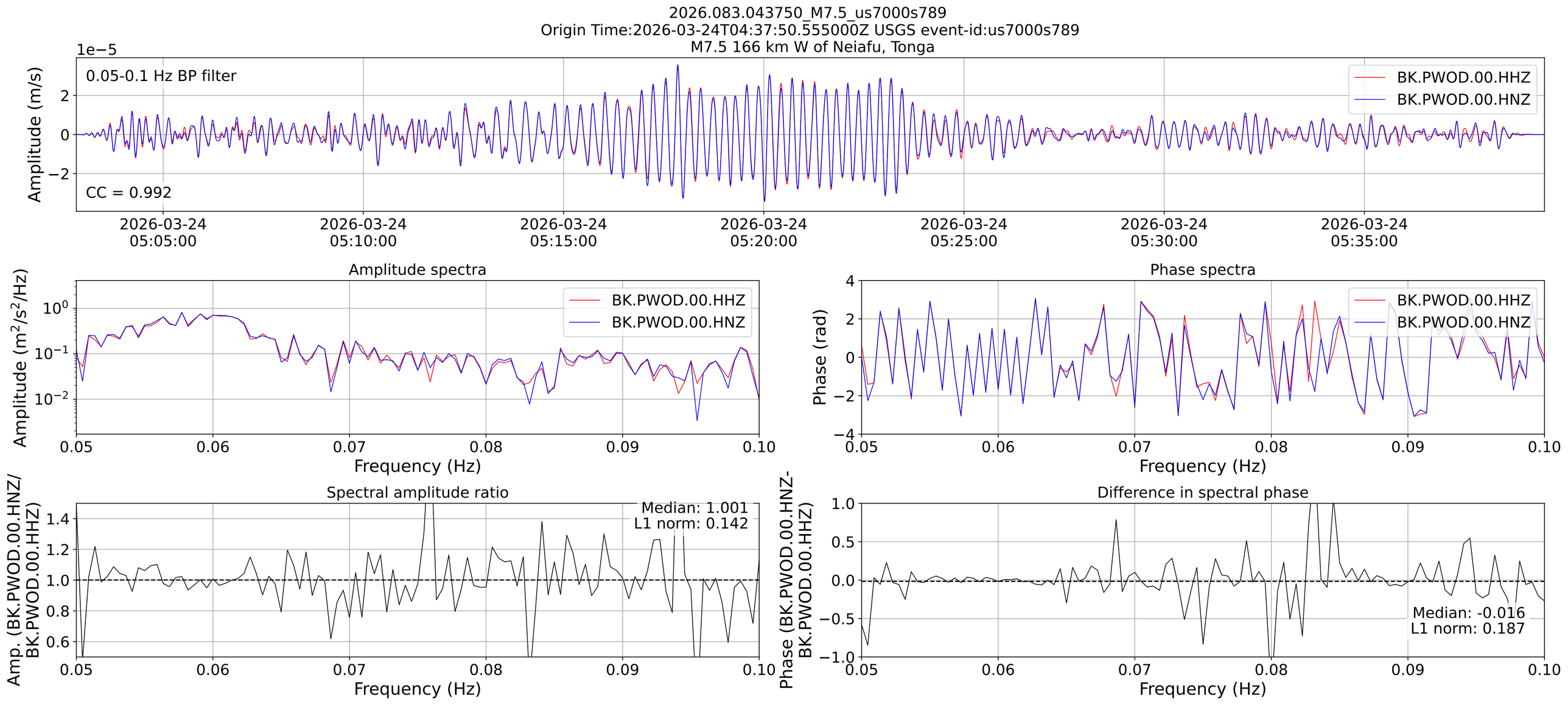

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.PWAY.00.HHE
BK.PWAY.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.017
L1 norm: 0.210
Amp. (BK.PWAY.00.HNE/ BK.PWAY.00.HHE)
Difference in spectral phase
Phase (BK.PWAY.00.HNE- BK.PWAY.00.HHE)
Median: -0.006
L1 norm: 0.239

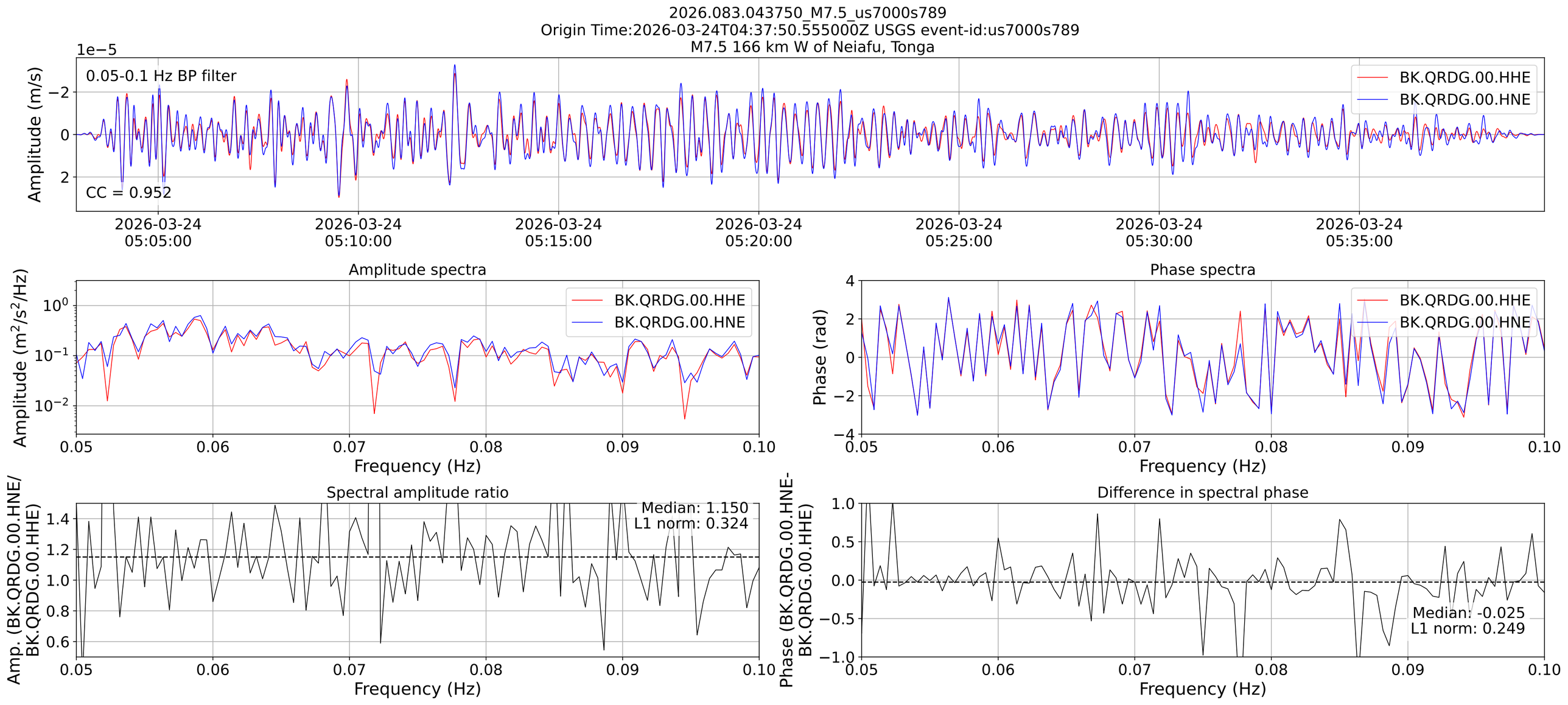

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.PWAY.00.HHN
BK.PWAY.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWAY.00.HNN/ BK.PWAY.00.HHN)
Median: 1.019
L1 norm: 0.142
Difference in spectral phase
Phase (BK.PWAY.00.HNN- BK.PWAY.00.HHN)
Median: 0.013
L1 norm: 0.169

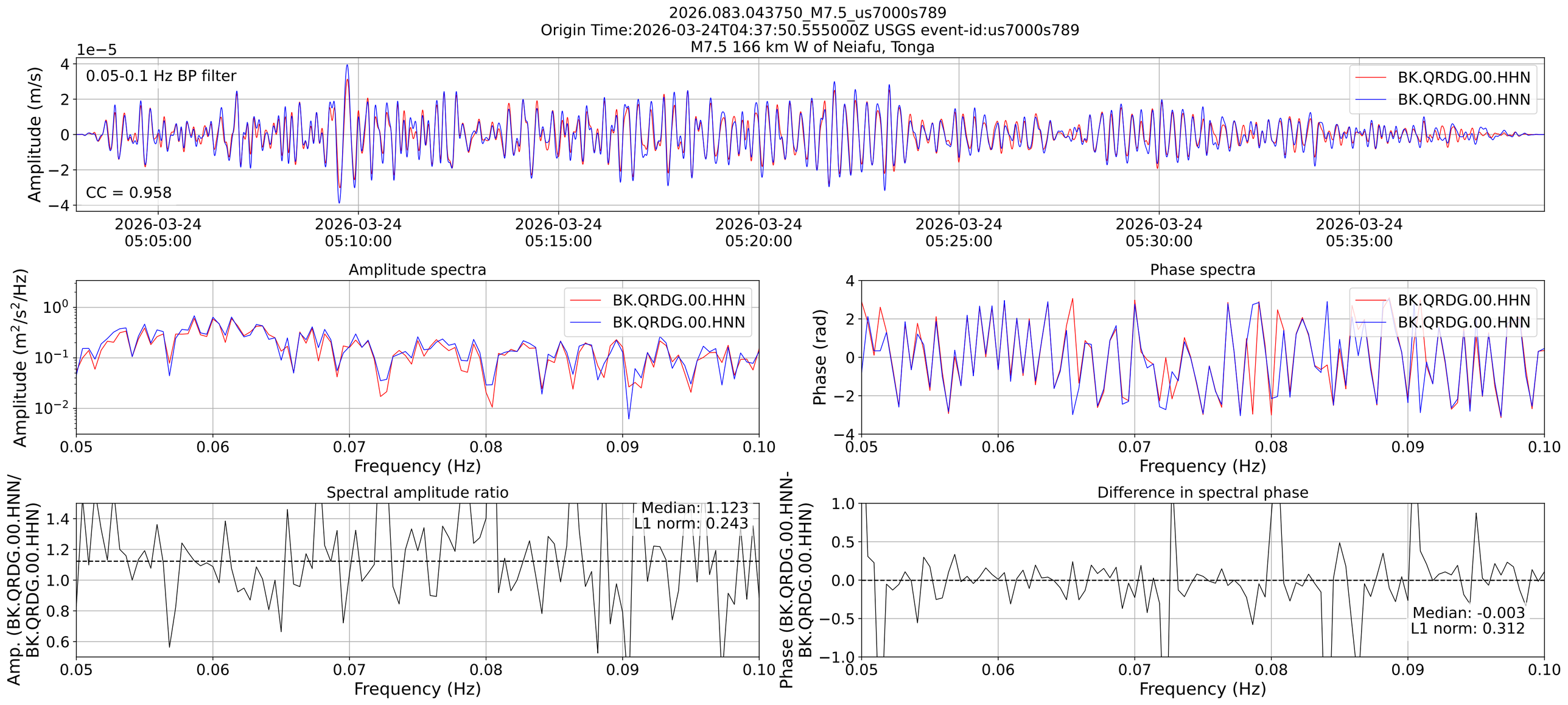

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.PWAY.00.HHZ
BK.PWAY.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWAY.00.HNZ/ BK.PWAY.00.HHZ)
Median: 1.039
L1 norm: 0.297
Difference in spectral phase
Phase (BK.PWAY.00.HNZ- BK.PWAY.00.HHZ)
Median: 0.001
L1 norm: 0.243

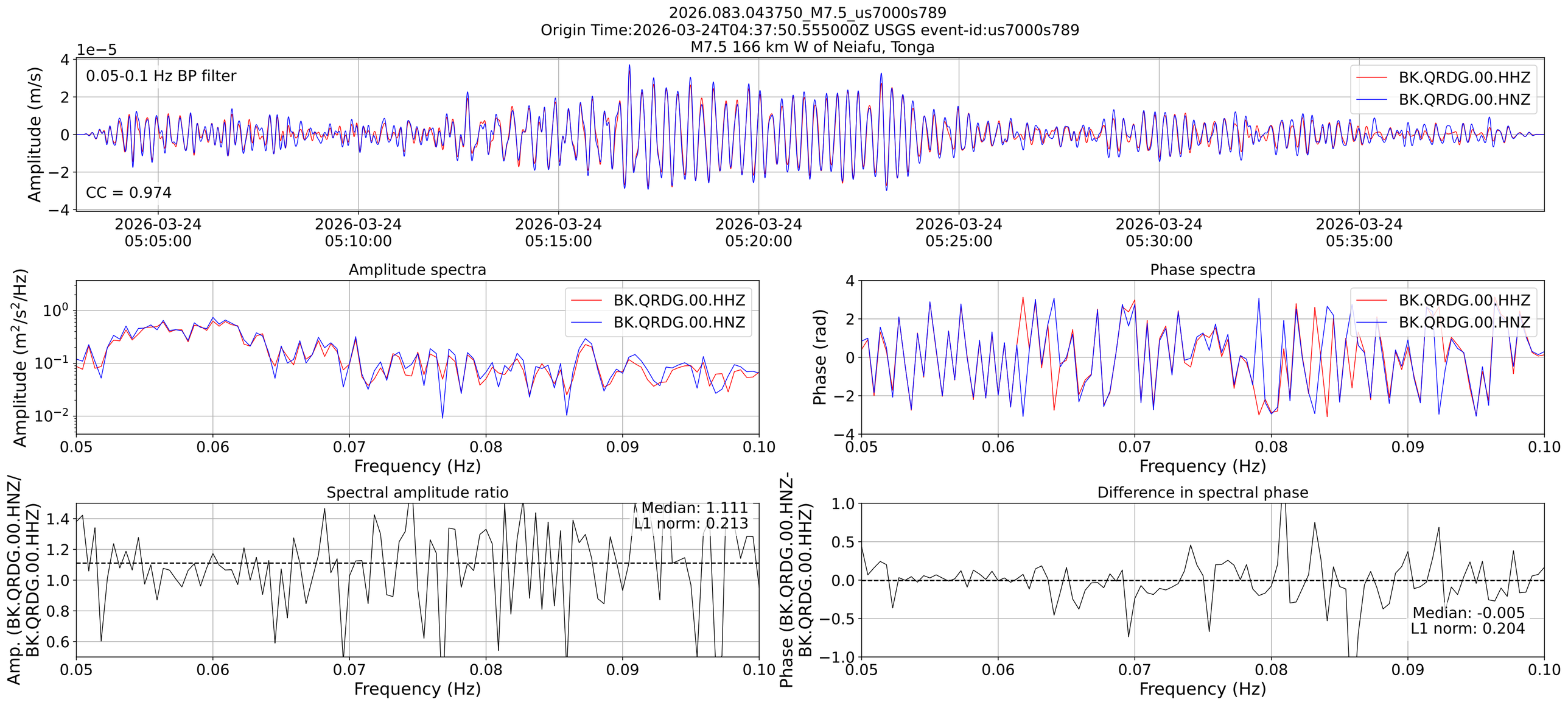

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.PWOD.00.HHE
BK.PWOD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNE/ BK.PWOD.00.HHE)
Median: 1.017
L1 norm: 0.167
Difference in spectral phase
Phase (BK.PWOD.00.HNE- BK.PWOD.00.HHE)
Median: -0.005
L1 norm: 0.132

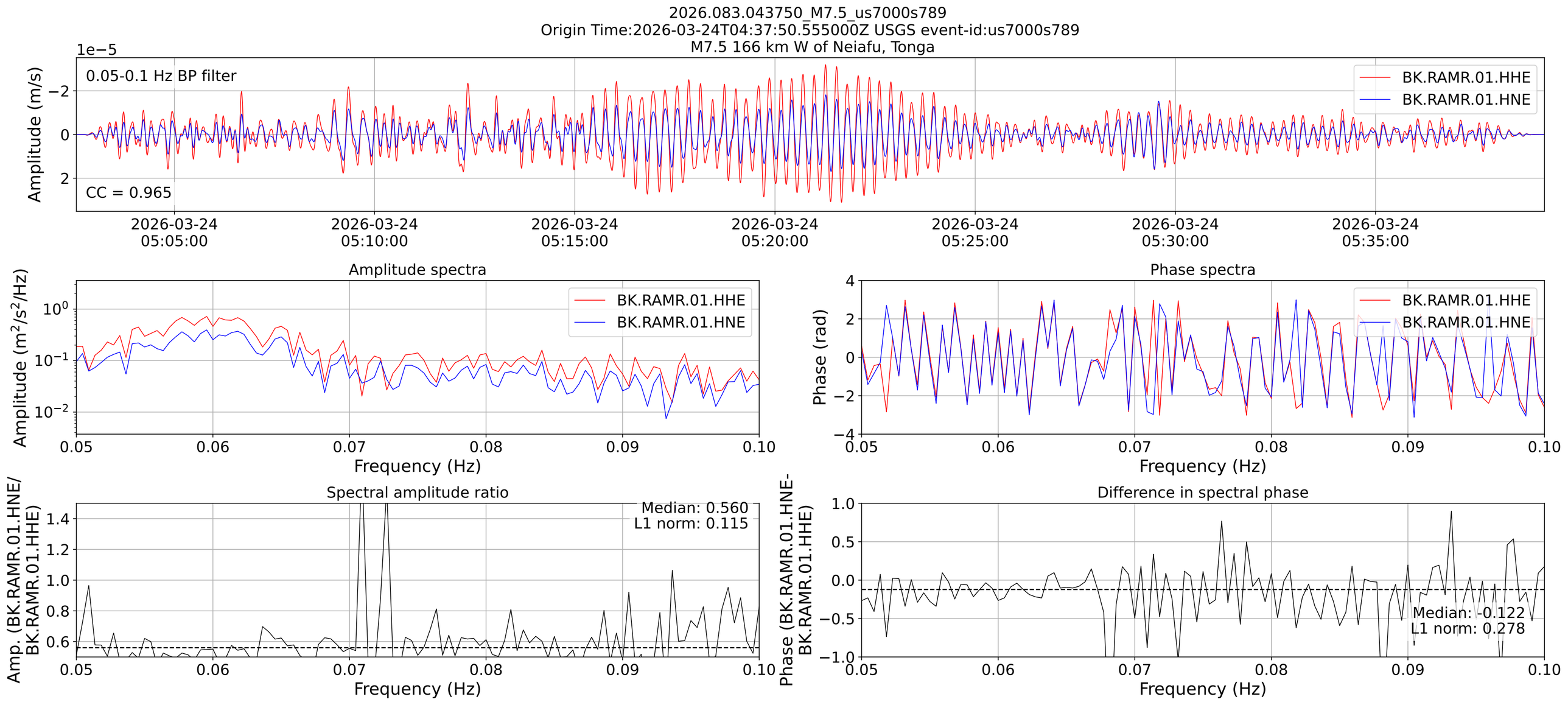

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.PWOD.00.HHN
BK.PWOD.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNN/ BK.PWOD.00.HHN)
Median: 1.022
L1 norm: 0.093
Difference in spectral phase
Phase (BK.PWOD.00.HNN- BK.PWOD.00.HHN)
Median: 0.006
L1 norm: 0.112

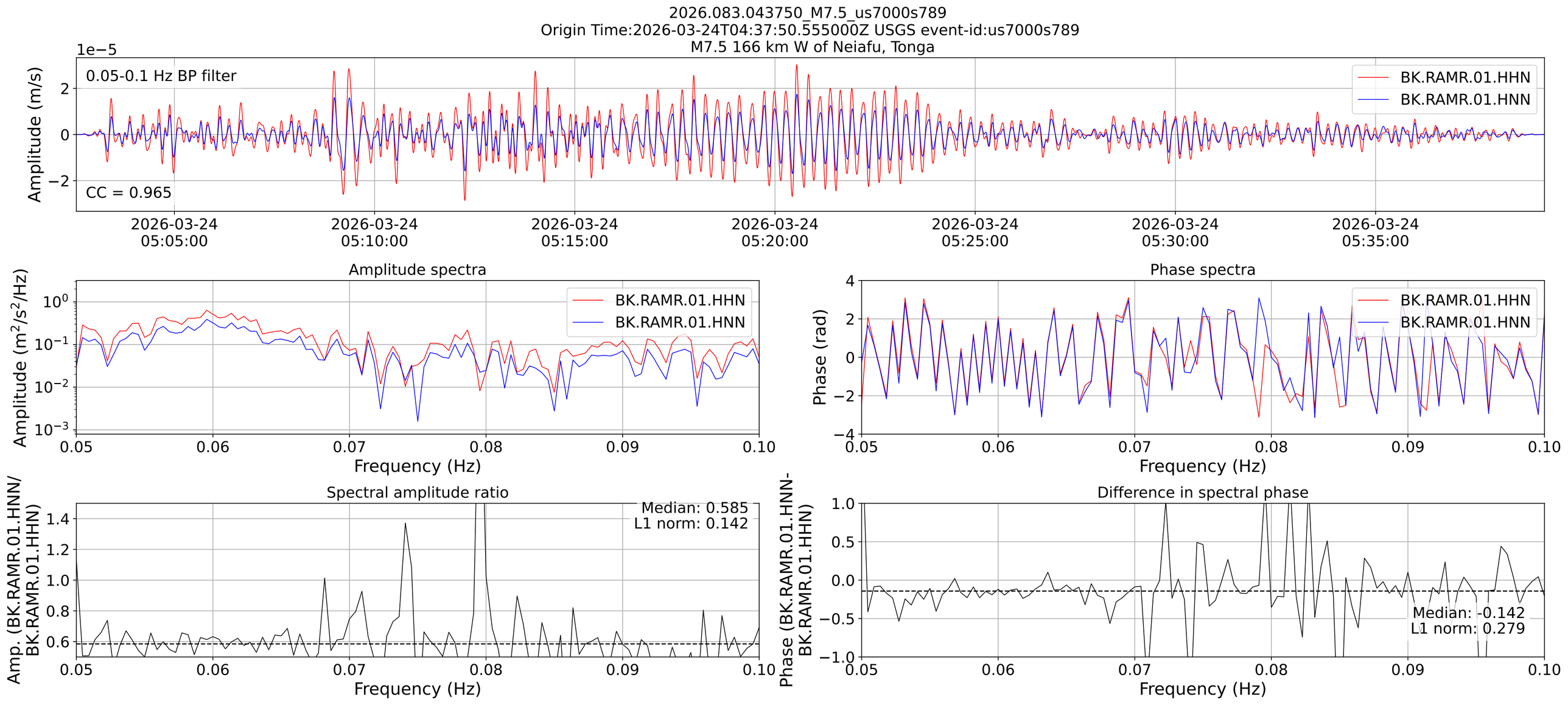

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.PWOD.00.HHZ
BK.PWOD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.PWOD.00.HNZ/ BK.PWOD.00.HHZ)
Median: 1.001
L1 norm: 0.142
Difference in spectral phase
Phase (BK.PWOD.00.HNZ- BK.PWOD.00.HHZ)
Median: -0.016
L1 norm: 0.187

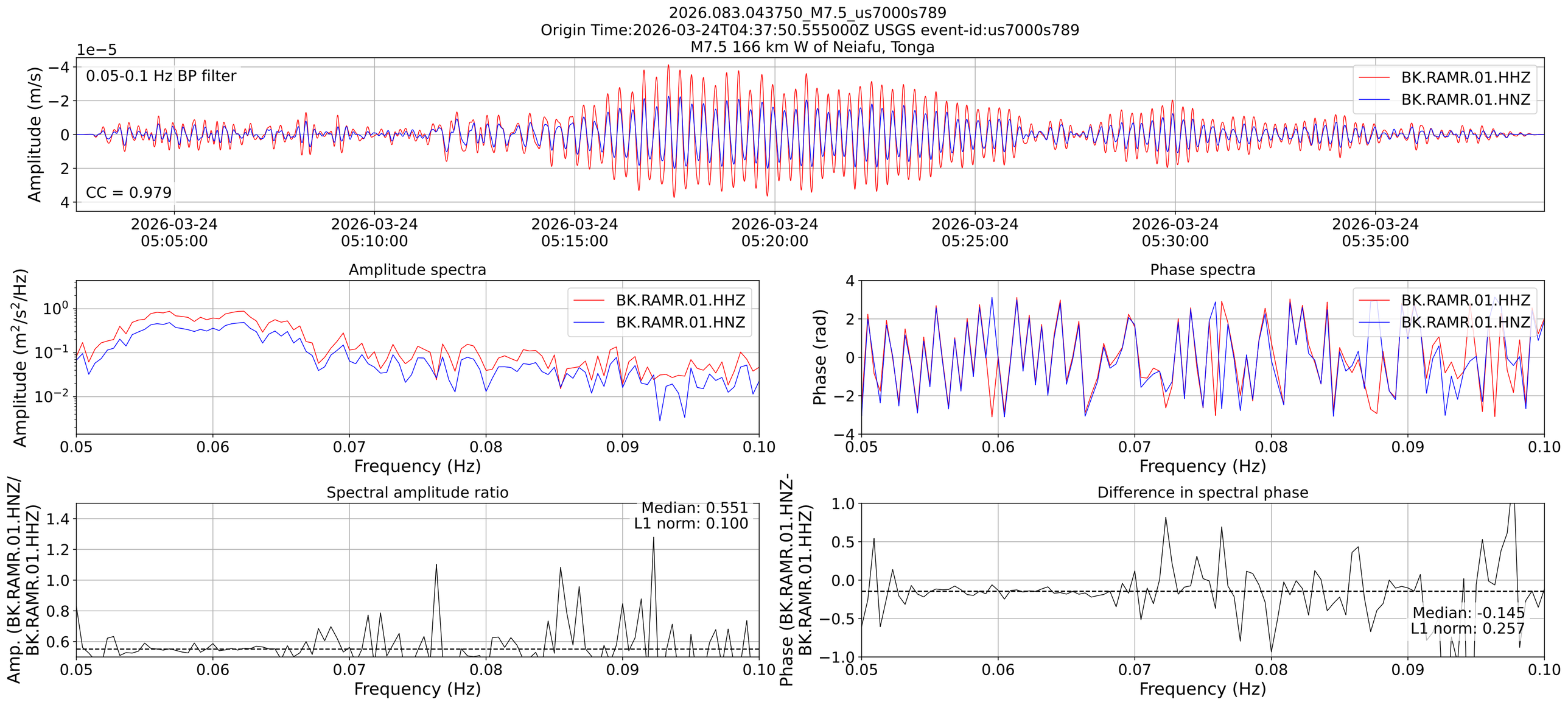

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.952
Amplitude (m/s)
BK.QRDG.00.HHE
BK.QRDG.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNE/ BK.QRDG.00.HHE)
Median: 1.150
L1 norm: 0.324
Difference in spectral phase
Phase (BK.QRDG.00.HNE- BK.QRDG.00.HHE)
Median: -0.025
L1 norm: 0.249

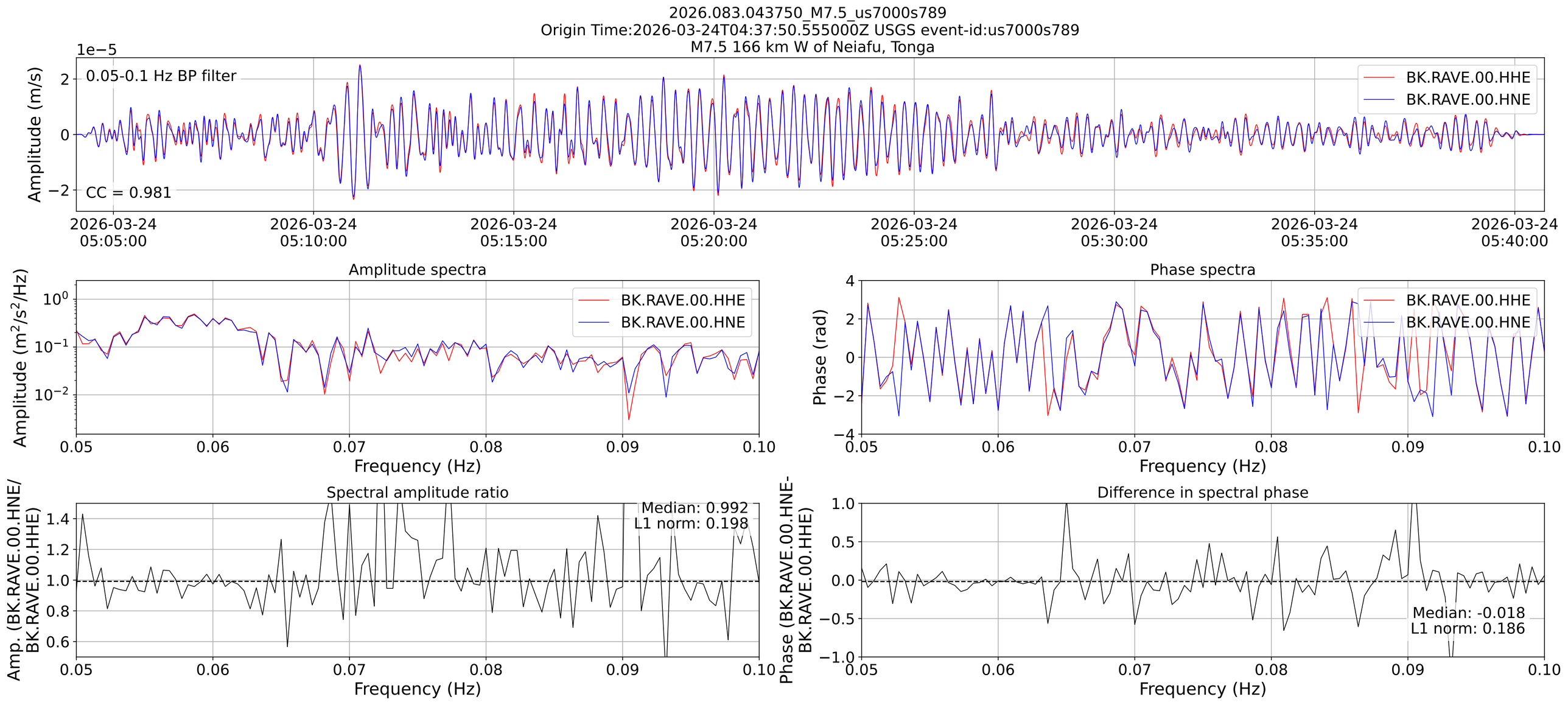

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.958
BK.QRDG.00.HHN
BK.QRDG.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNN/ BK.QRDG.00.HHN)
Median: 1.123
L1 norm: 0.243
Difference in spectral phase
Phase (BK.QRDG.00.HNN- BK.QRDG.00.HHN)
Median: -0.003
L1 norm: 0.312

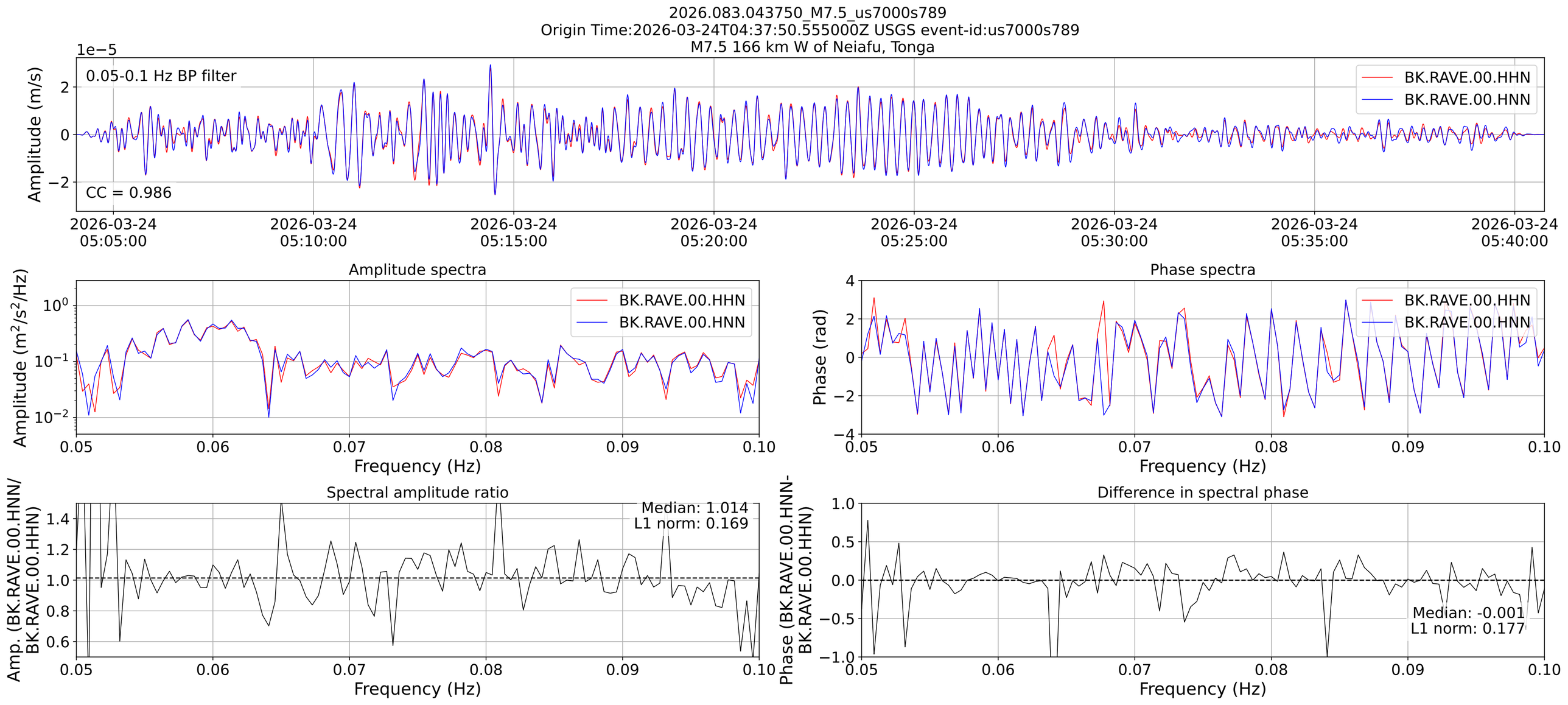

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.974
BK.QRDG.00.HHZ
BK.QRDG.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.QRDG.00.HNZ/ BK.QRDG.00.HHZ)
Median: 1.111
L1 norm: 0.213
Difference in spectral phase
Phase (BK.QRDG.00.HNZ- BK.QRDG.00.HHZ)
Median: -0.005
L1 norm: 0.204

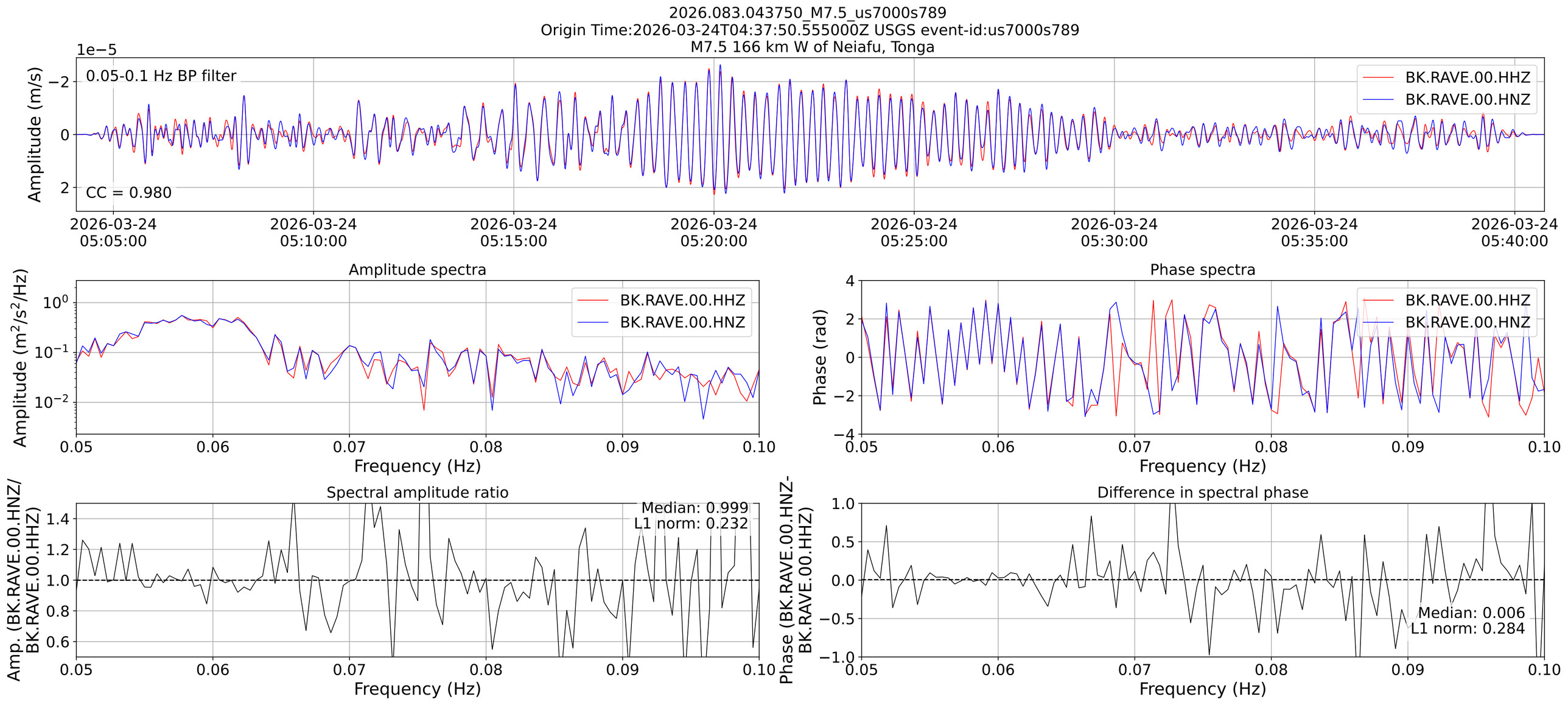

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.965
BK.RAMR.01.HHE
BK.RAMR.01.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.01.HNE/ BK.RAMR.01.HHE)
Median: 0.560
L1 norm: 0.115
Difference in spectral phase
Phase (BK.RAMR.01.HNE- BK.RAMR.01.HHE)
Median: -0.122
L1 norm: 0.278

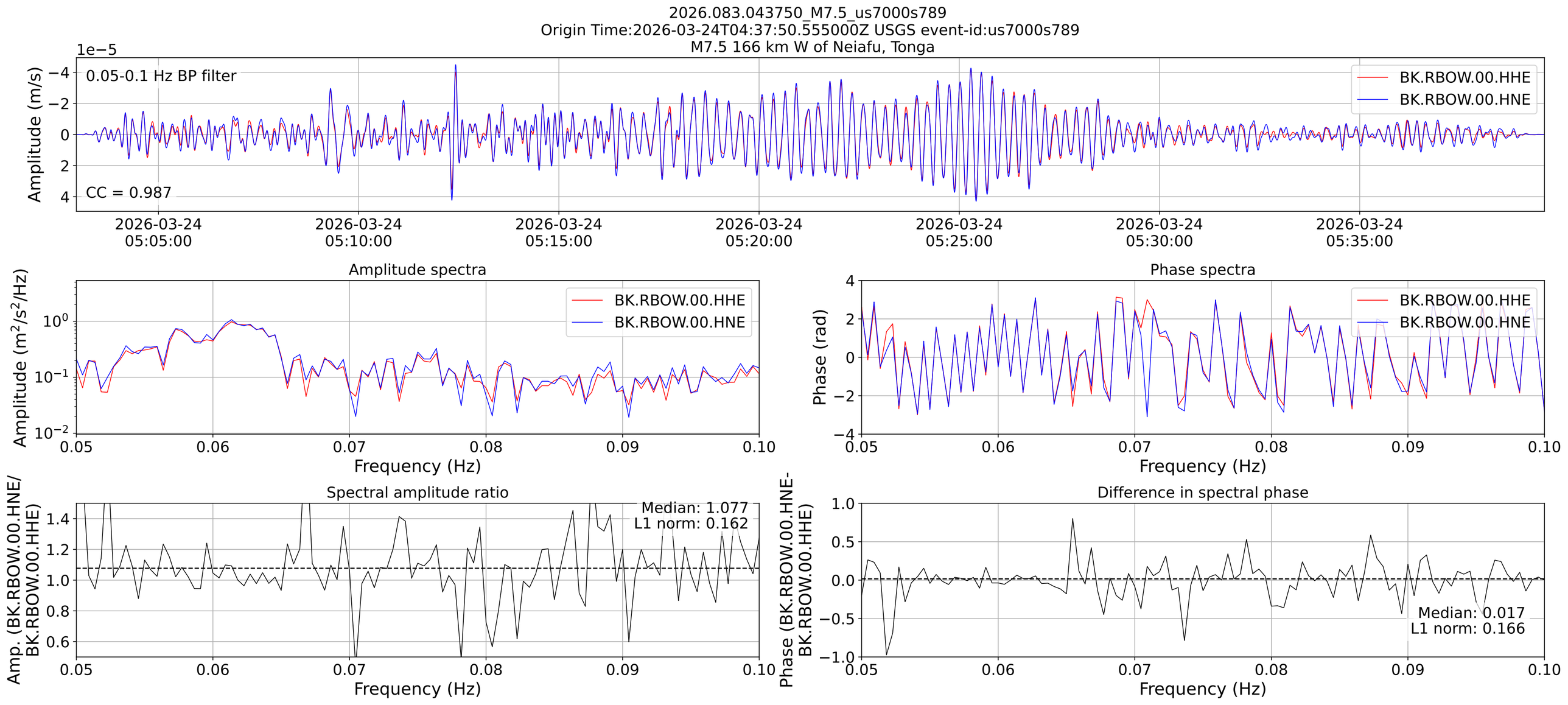

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.965
Amplitude (m/s)
BK.RAMR.01.HHN
BK.RAMR.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.01.HNN/ BK.RAMR.01.HHN)
Median: 0.585
L1 norm: 0.142
Difference in spectral phase
Phase (BK.RAMR.01.HNN- BK.RAMR.01.HHN)
Median: -0.142
L1 norm: 0.279

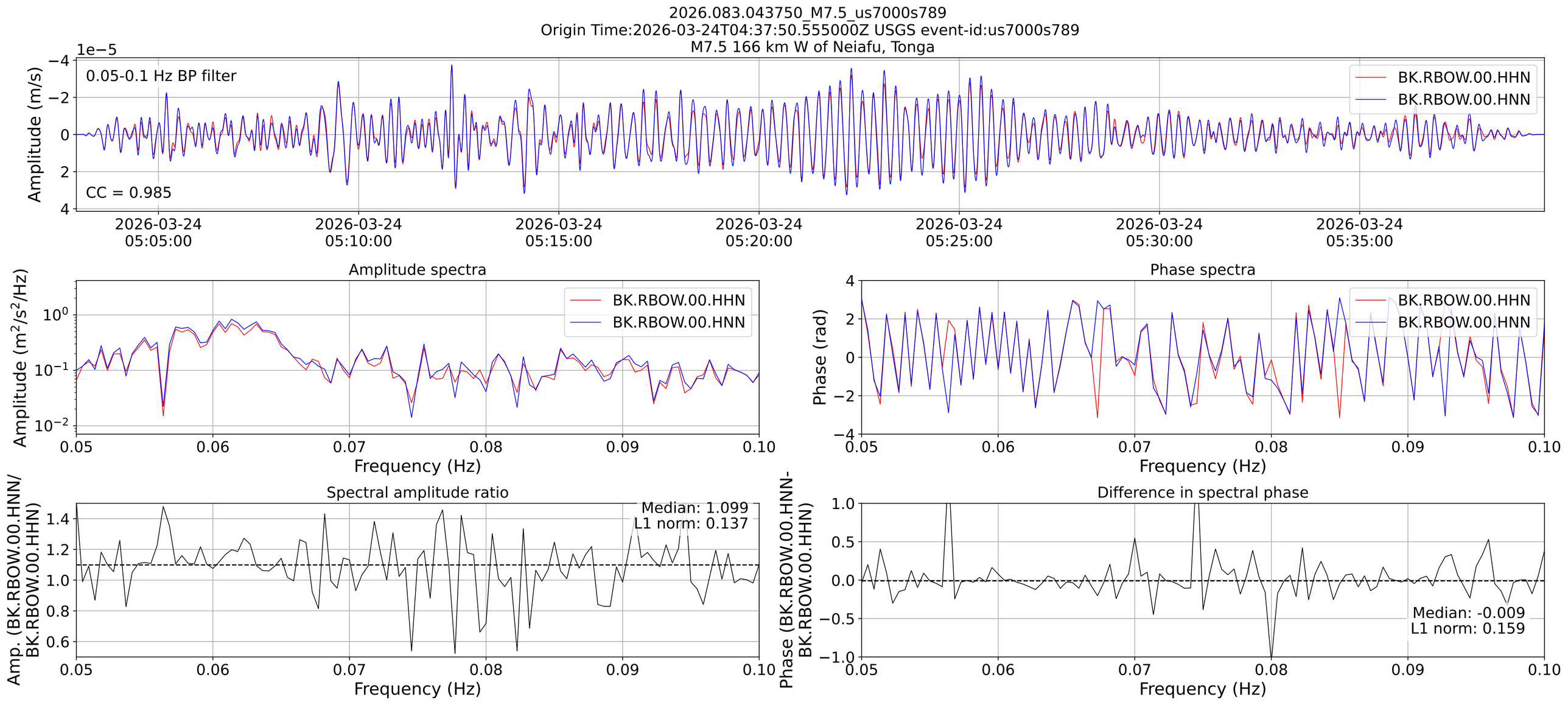

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
BK.RAMR.01.HHZ
BK.RAMR.01.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAMR.01.HNZ/ BK.RAMR.01.HHZ)
Median: 0.551
L1 norm: 0.100
Difference in spectral phase
Phase (BK.RAMR.01.HNZ- BK.RAMR.01.HHZ)
Median: -0.145
L1 norm: 0.257

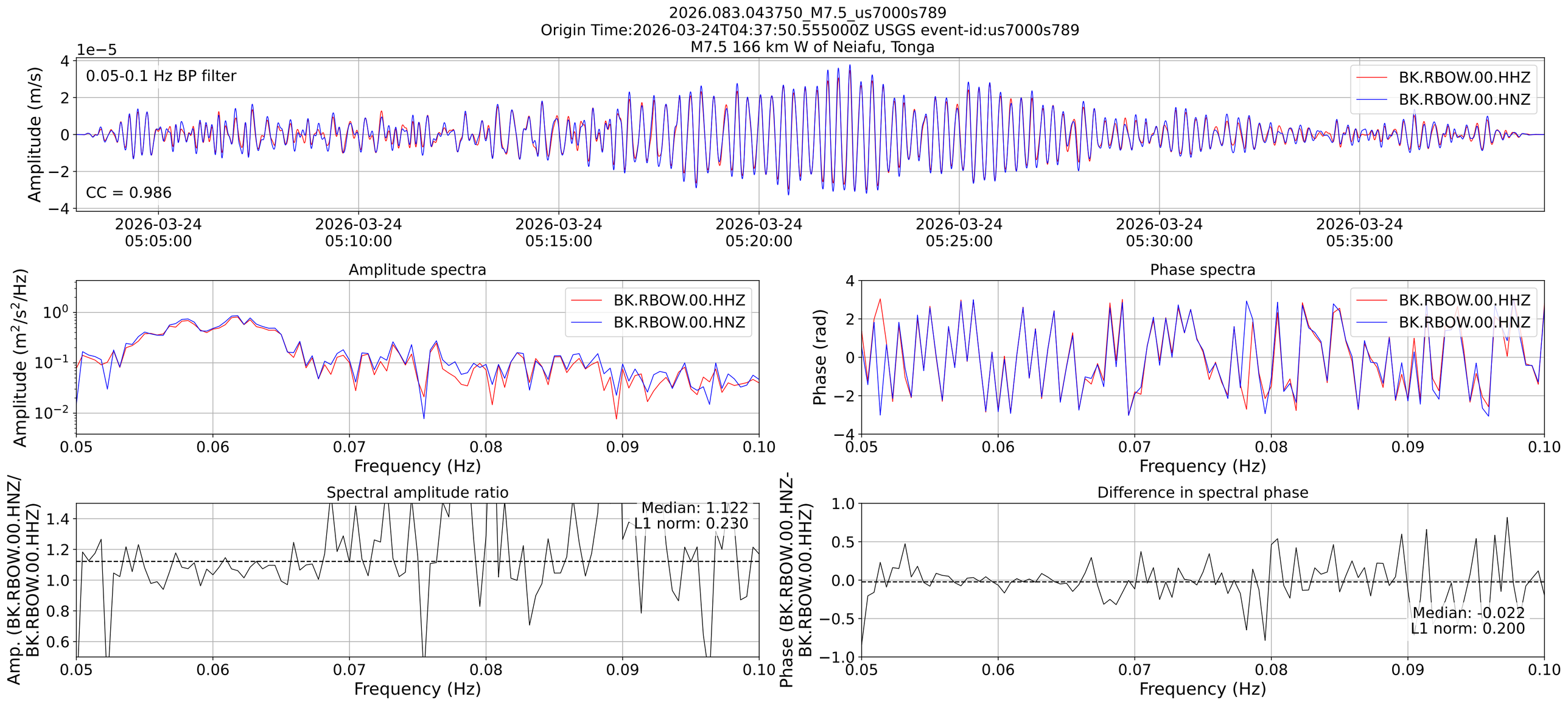

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.RAVE.00.HHE
BK.RAVE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNE/ BK.RAVE.00.HHE)
Median: 0.992
L1 norm: 0.198
Difference in spectral phase
Phase (BK.RAVE.00.HNE- BK.RAVE.00.HHE)
Median: -0.018
L1 norm: 0.186

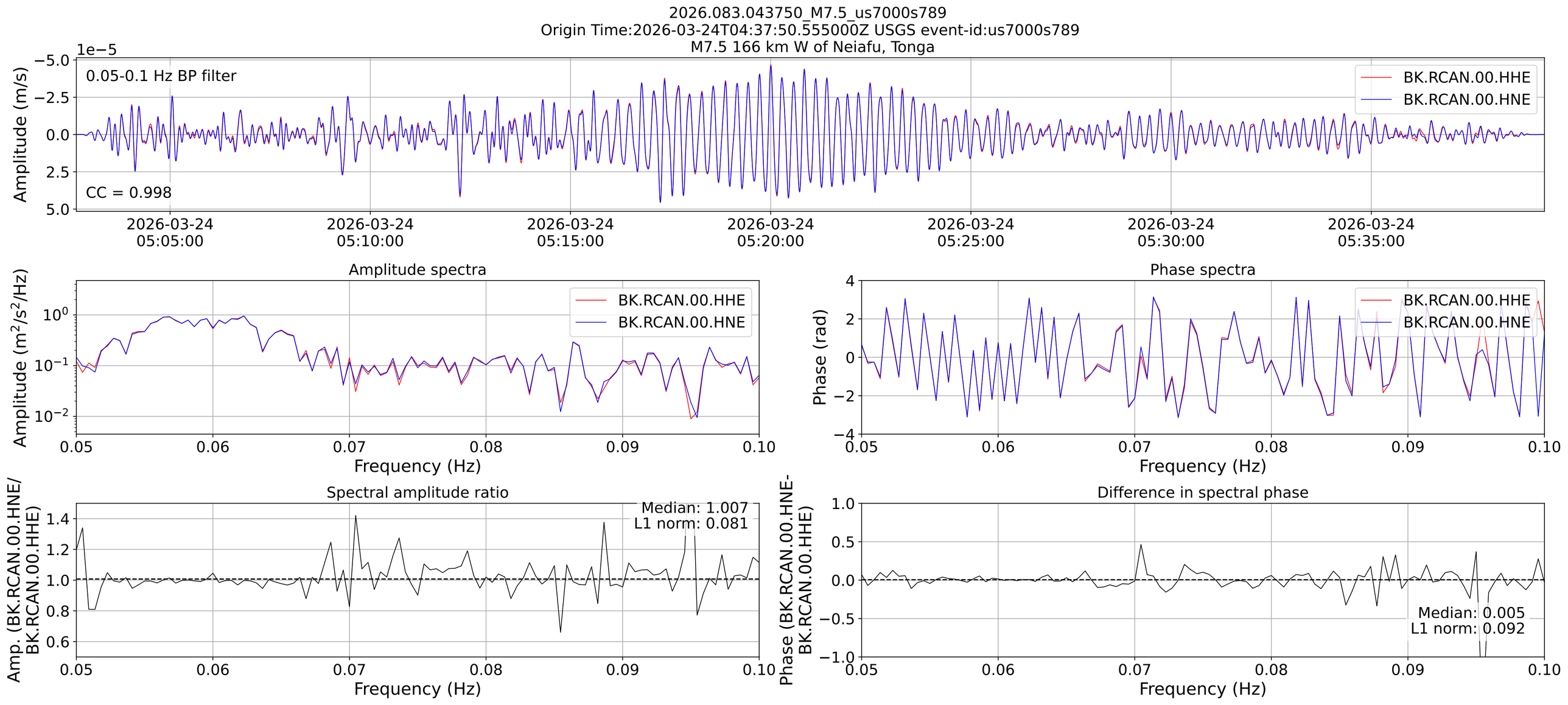

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.RAVE.00.HHN
BK.RAVE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNN/ BK.RAVE.00.HHN)
Median: 1.014
L1 norm: 0.169
Difference in spectral phase
Phase (BK.RAVE.00.HNN- BK.RAVE.00.HHN)
Median: -0.001
L1 norm: 0.177

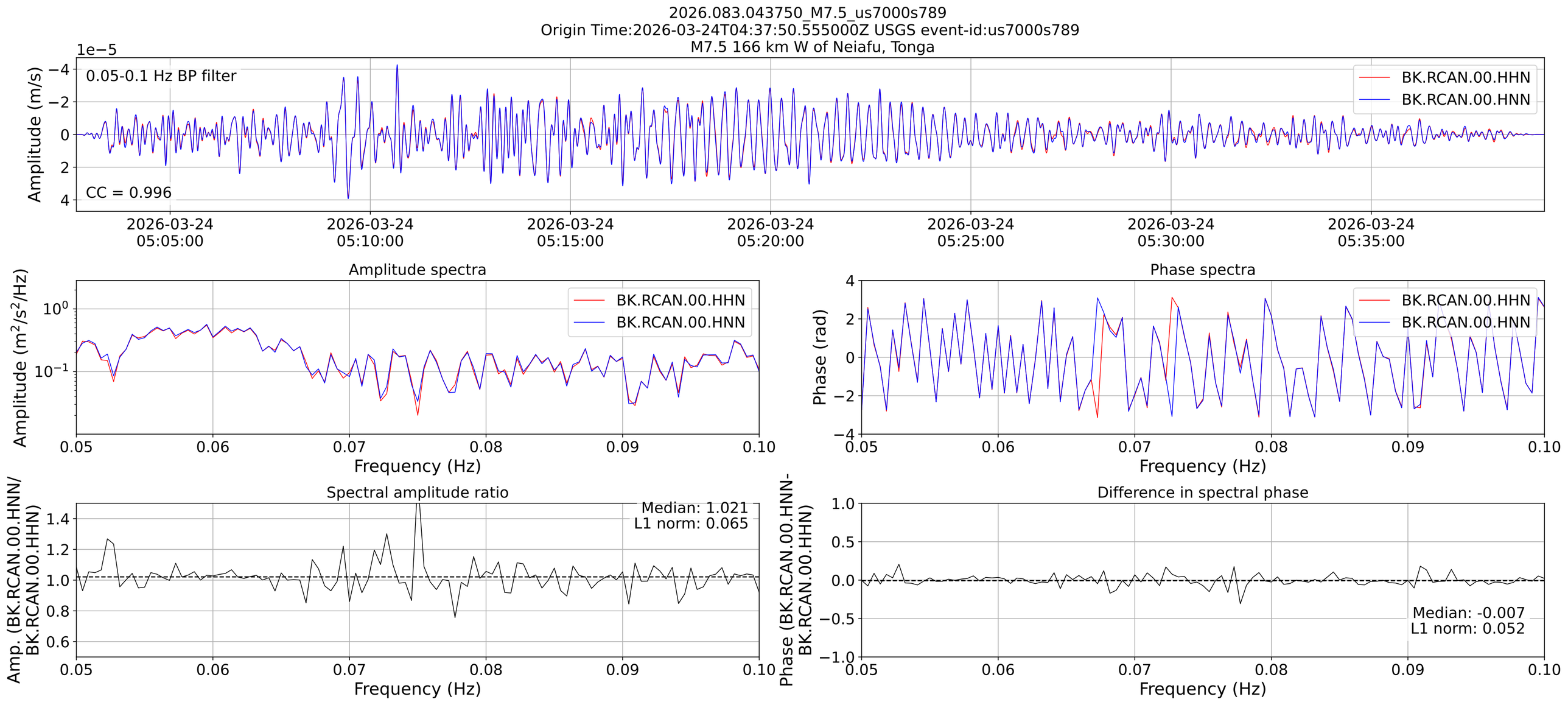

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.980
Amplitude (m/s)
BK.RAVE.00.HHZ
BK.RAVE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RAVE.00.HNZ/ BK.RAVE.00.HHZ)
Median: 0.999
L1 norm: 0.232
Difference in spectral phase
Phase (BK.RAVE.00.HNZ- BK.RAVE.00.HHZ)
Median: 0.006
L1 norm: 0.284

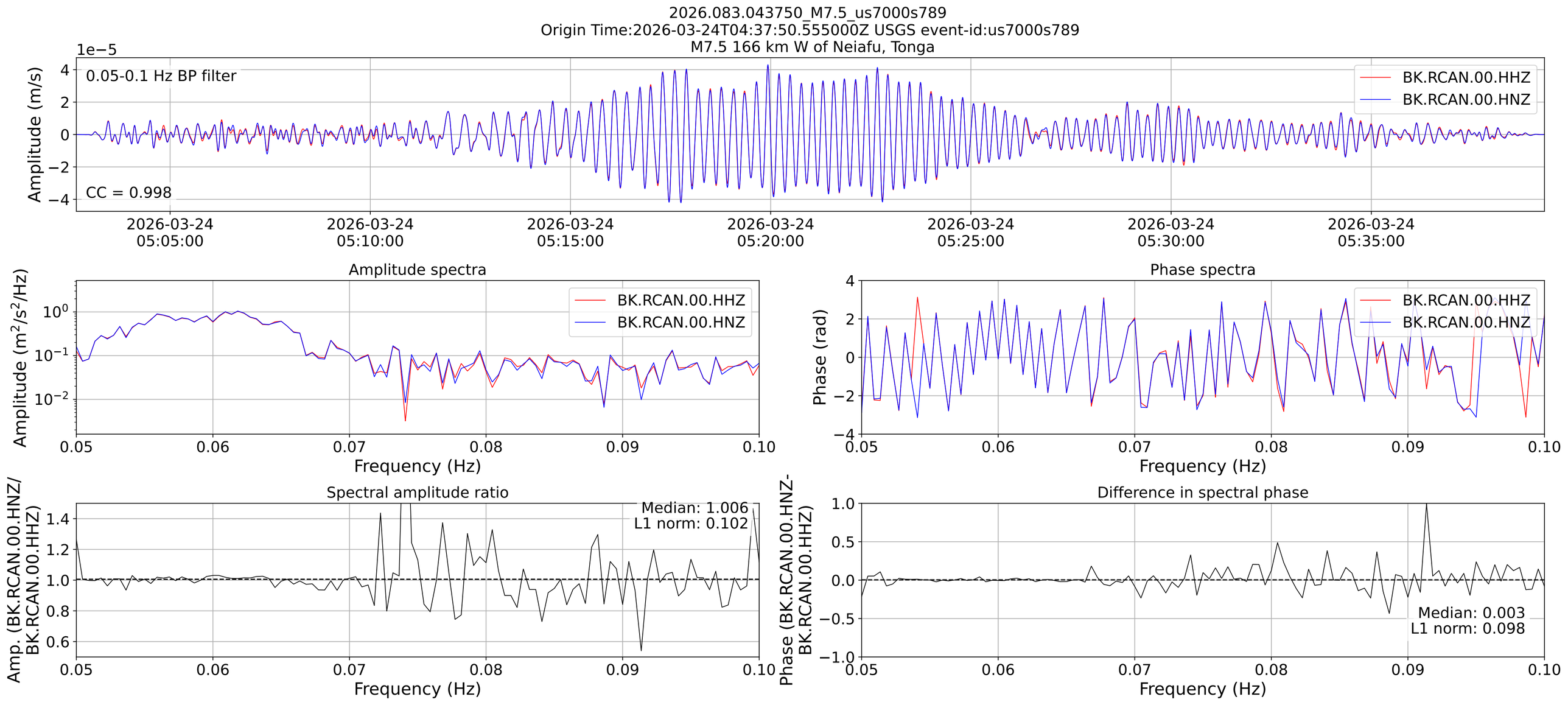

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.RBOW.00.HHE
BK.RBOW.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNE/ BK.RBOW.00.HHE)
Median: 1.077
L1 norm: 0.162
Difference in spectral phase
Phase (BK.RBOW.00.HNE- BK.RBOW.00.HHE)
Median: 0.017
L1 norm: 0.166

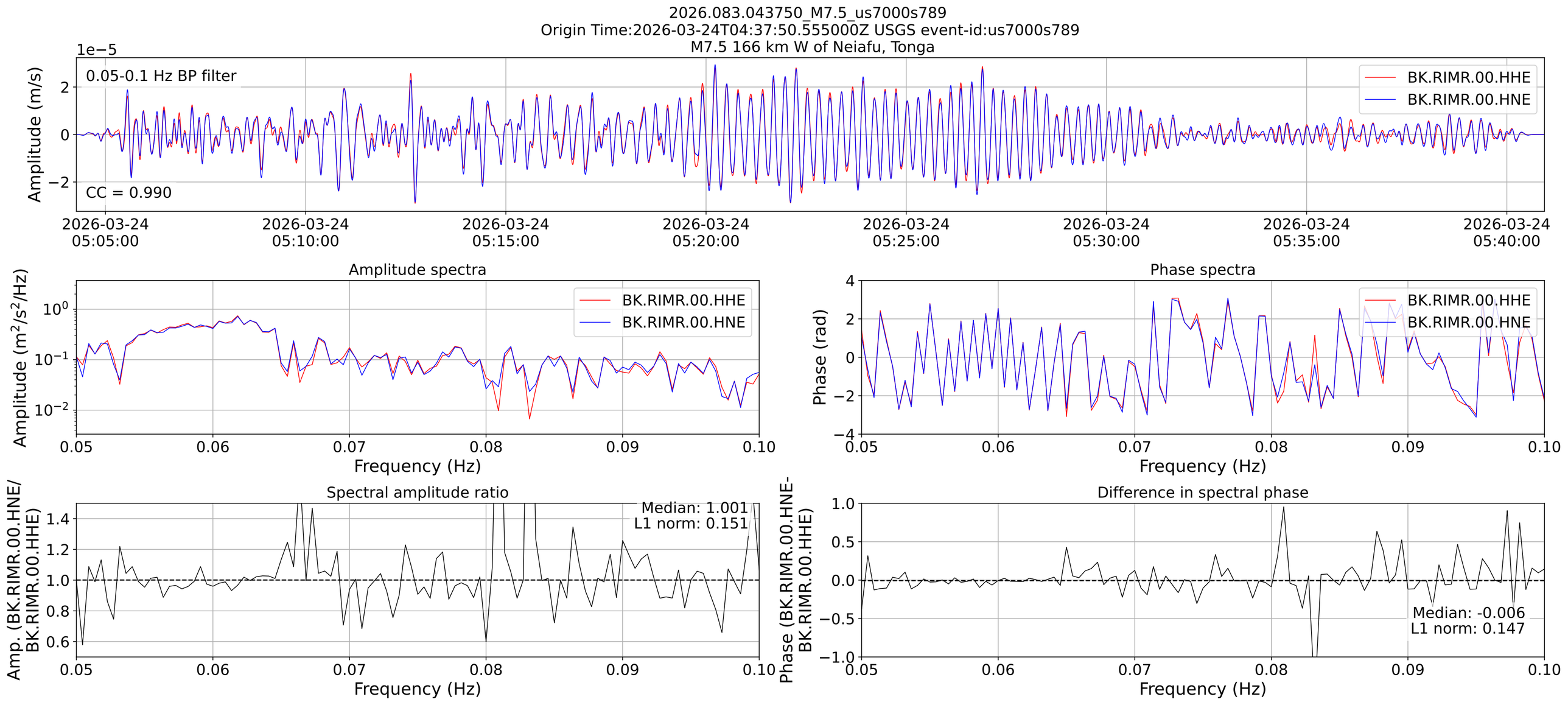

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.985
BK.RBOW.00.HHN
BK.RBOW.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNN/ BK.RBOW.00.HHN)
Median: 1.099
L1 norm: 0.137
Difference in spectral phase
Phase (BK.RBOW.00.HNN- BK.RBOW.00.HHN)
Median: -0.009
L1 norm: 0.159

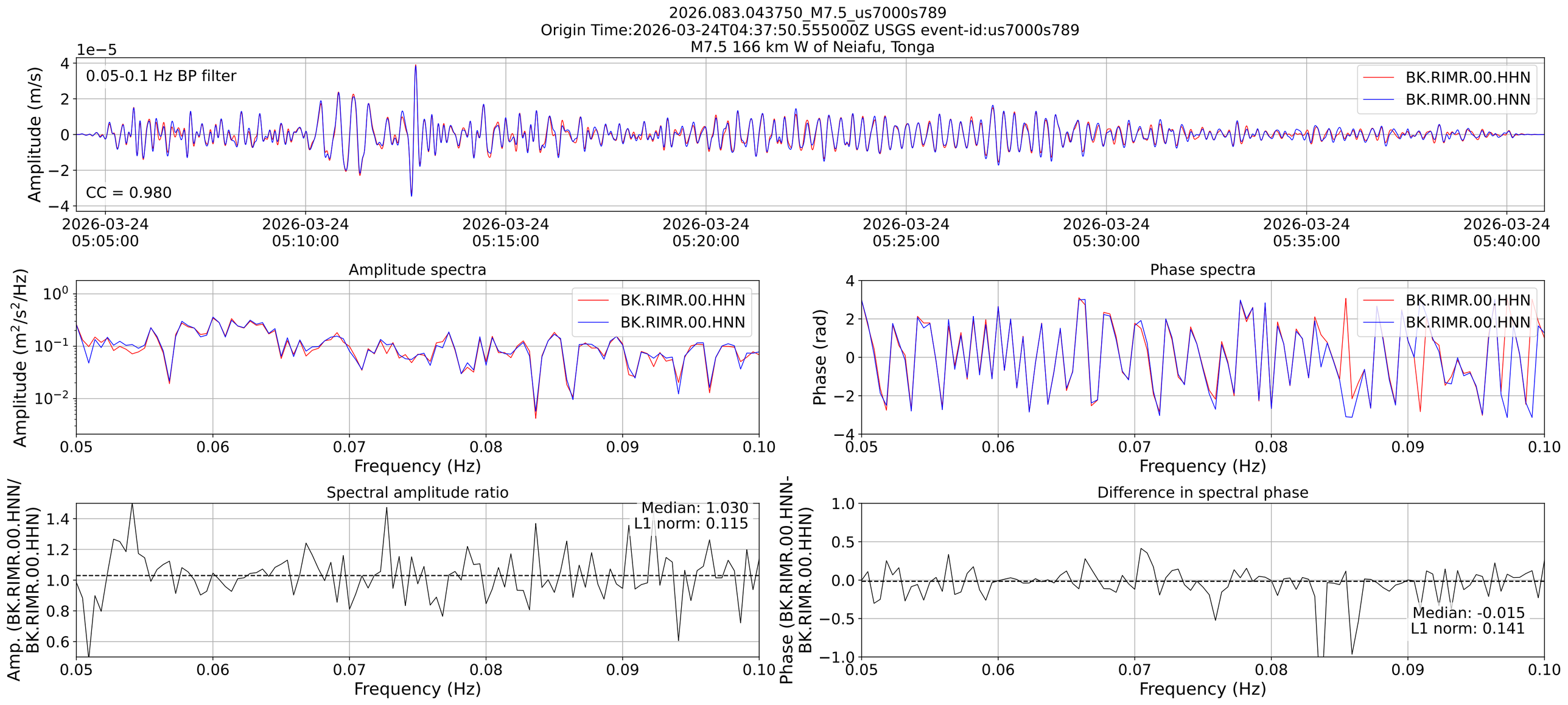

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.986
BK.RBOW.00.HHZ
BK.RBOW.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RBOW.00.HNZ/ BK.RBOW.00.HHZ)
Median: 1.122
L1 norm: 0.230
Difference in spectral phase
Phase (BK.RBOW.00.HNZ- BK.RBOW.00.HHZ)
Median: -0.022
L1 norm: 0.200

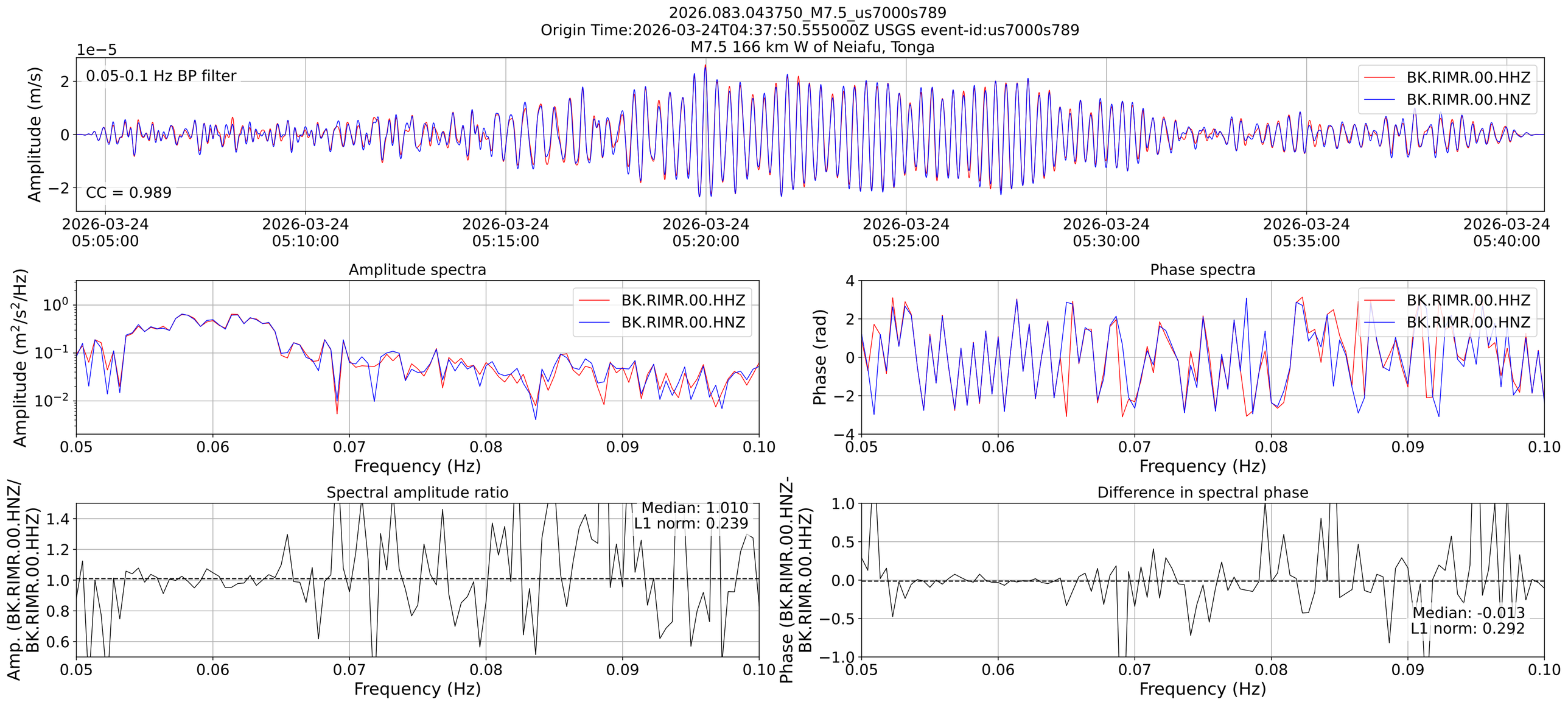

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.998
BK.RCAN.00.HHE
BK.RCAN.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RCAN.00.HNE/ BK.RCAN.00.HHE)
Median: 1.007
L1 norm: 0.081
Difference in spectral phase
Phase (BK.RCAN.00.HNE- BK.RCAN.00.HHE)
Median: 0.005
L1 norm: 0.092

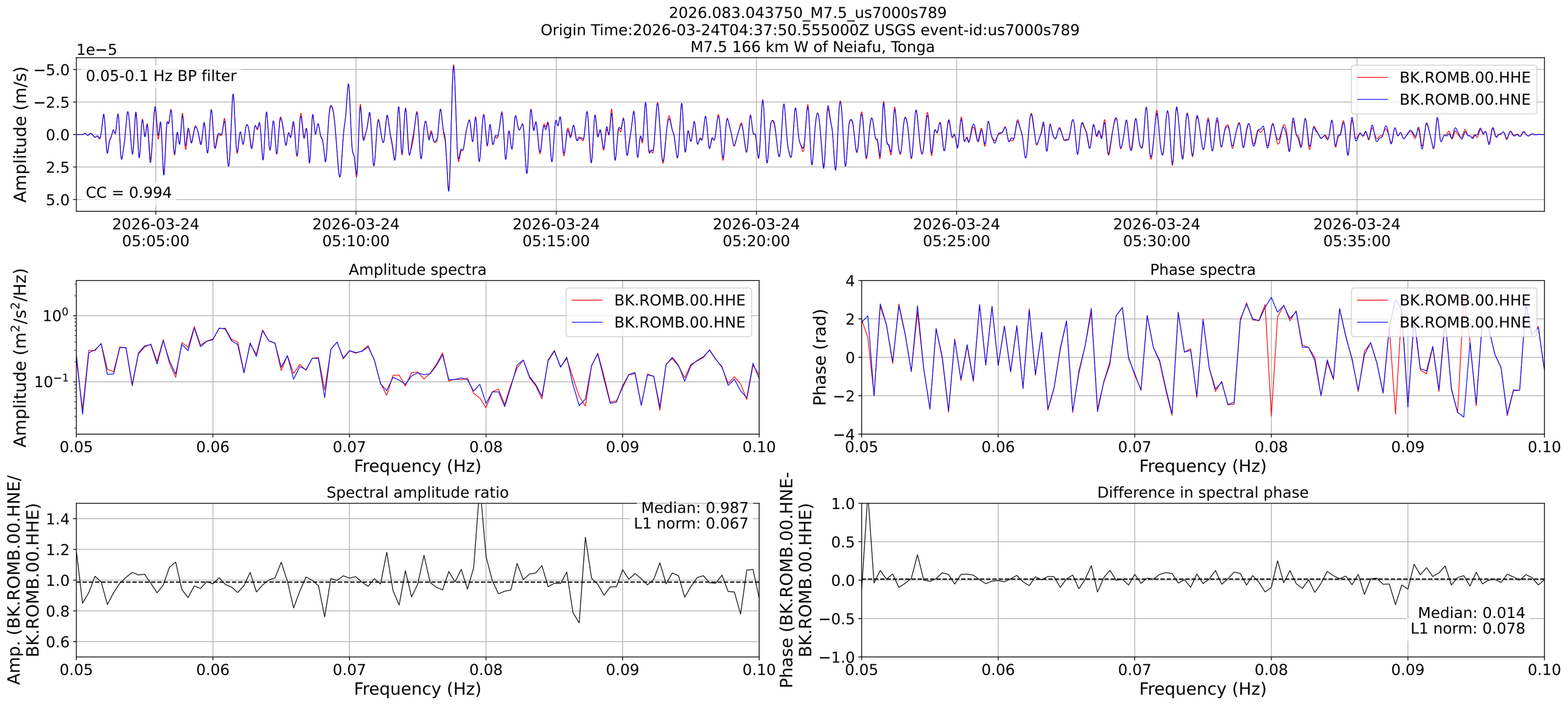

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.996
BK.RCAN.00.HHN
BK.RCAN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RCAN.00.HNN/ BK.RCAN.00.HHN)
Median: 1.021
L1 norm: 0.065
Difference in spectral phase
Phase (BK.RCAN.00.HNN- BK.RCAN.00.HHN)
Median: -0.007
L1 norm: 0.052

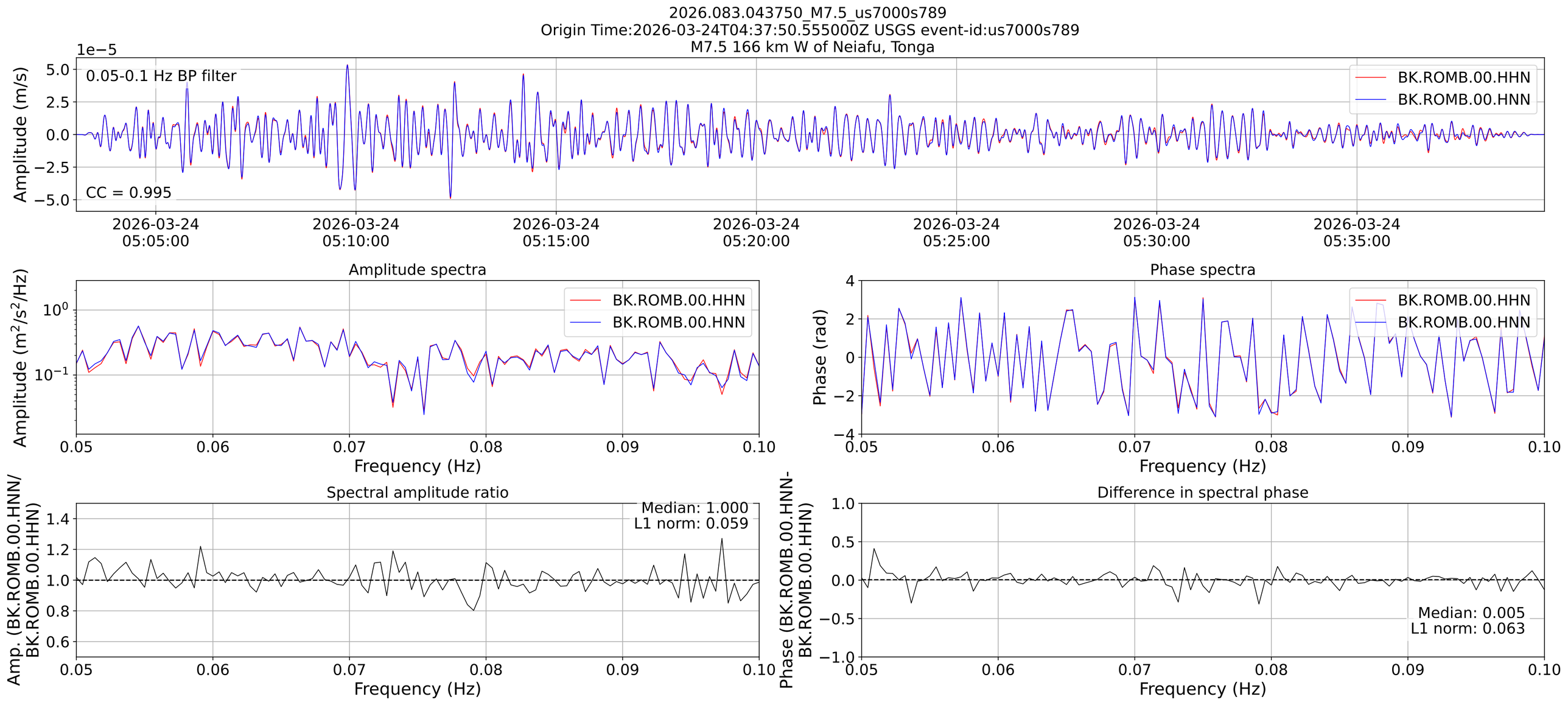

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.998
Amplitude (m/s)
BK.RCAN.00.HHZ
BK.RCAN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RCAN.00.HNZ/ BK.RCAN.00.HHZ)
Median: 1.006
L1 norm: 0.102
Difference in spectral phase
Phase (BK.RCAN.00.HNZ- BK.RCAN.00.HHZ)
Median: 0.003
L1 norm: 0.098

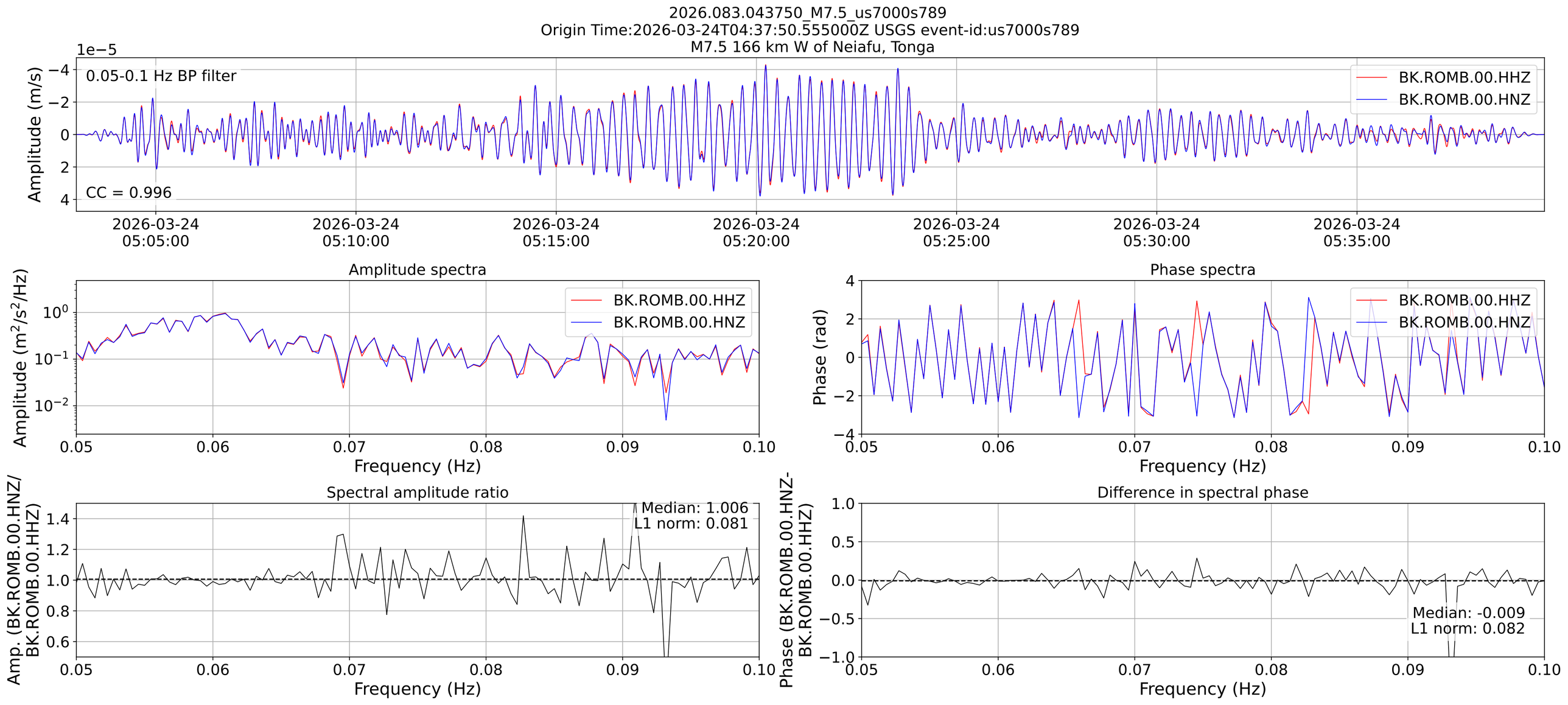

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
BK.RIMR.00.HHE
BK.RIMR.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.001
L1 norm: 0.151
Amp. (BK.RIMR.00.HNE/ BK.RIMR.00.HHE)
Difference in spectral phase
Phase (BK.RIMR.00.HNE- BK.RIMR.00.HHE)
Median: -0.006
L1 norm: 0.147

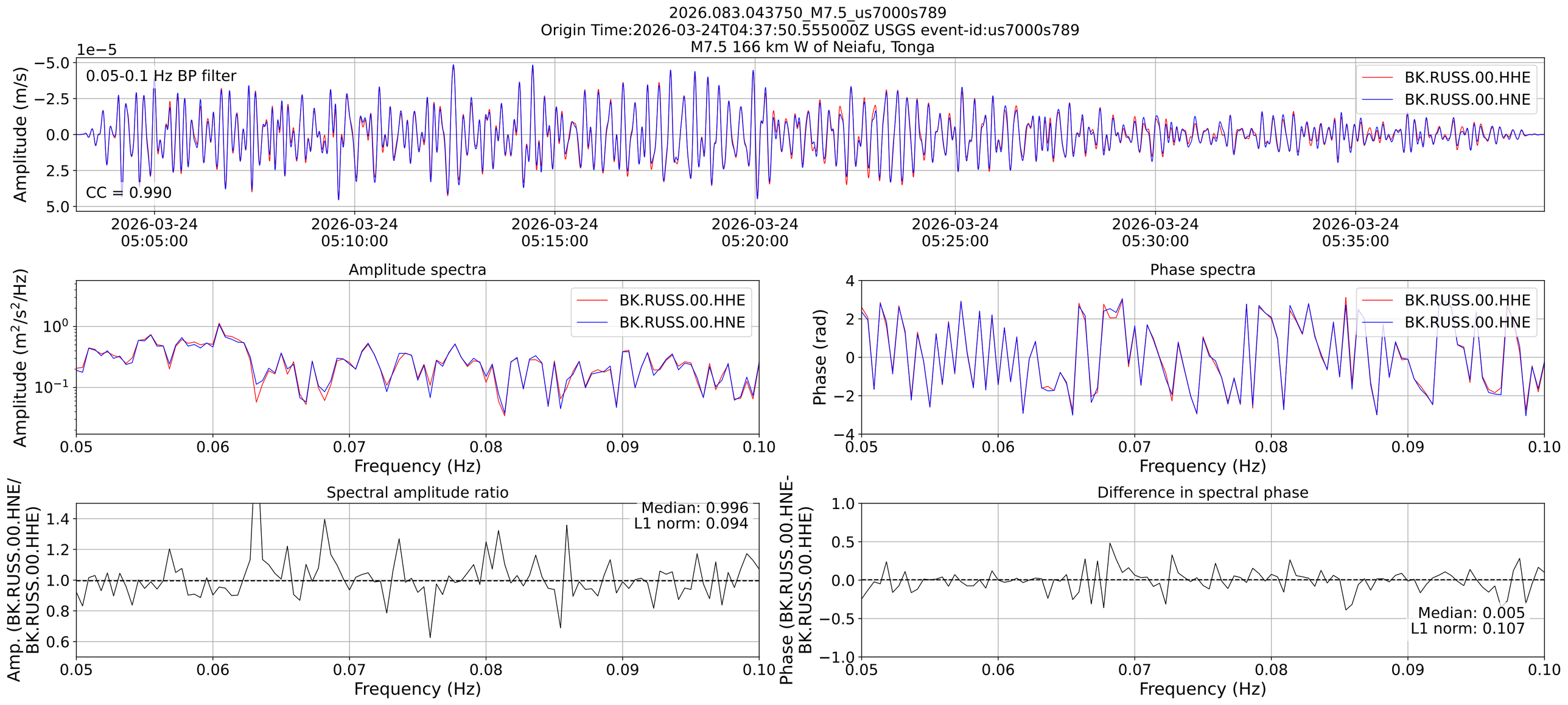

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.980
BK.RIMR.00.HHN
BK.RIMR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RIMR.00.HNN/ BK.RIMR.00.HHN)
Median: 1.030
L1 norm: 0.115
Difference in spectral phase
Phase (BK.RIMR.00.HNN- BK.RIMR.00.HHN)
Median: -0.015
L1 norm: 0.141

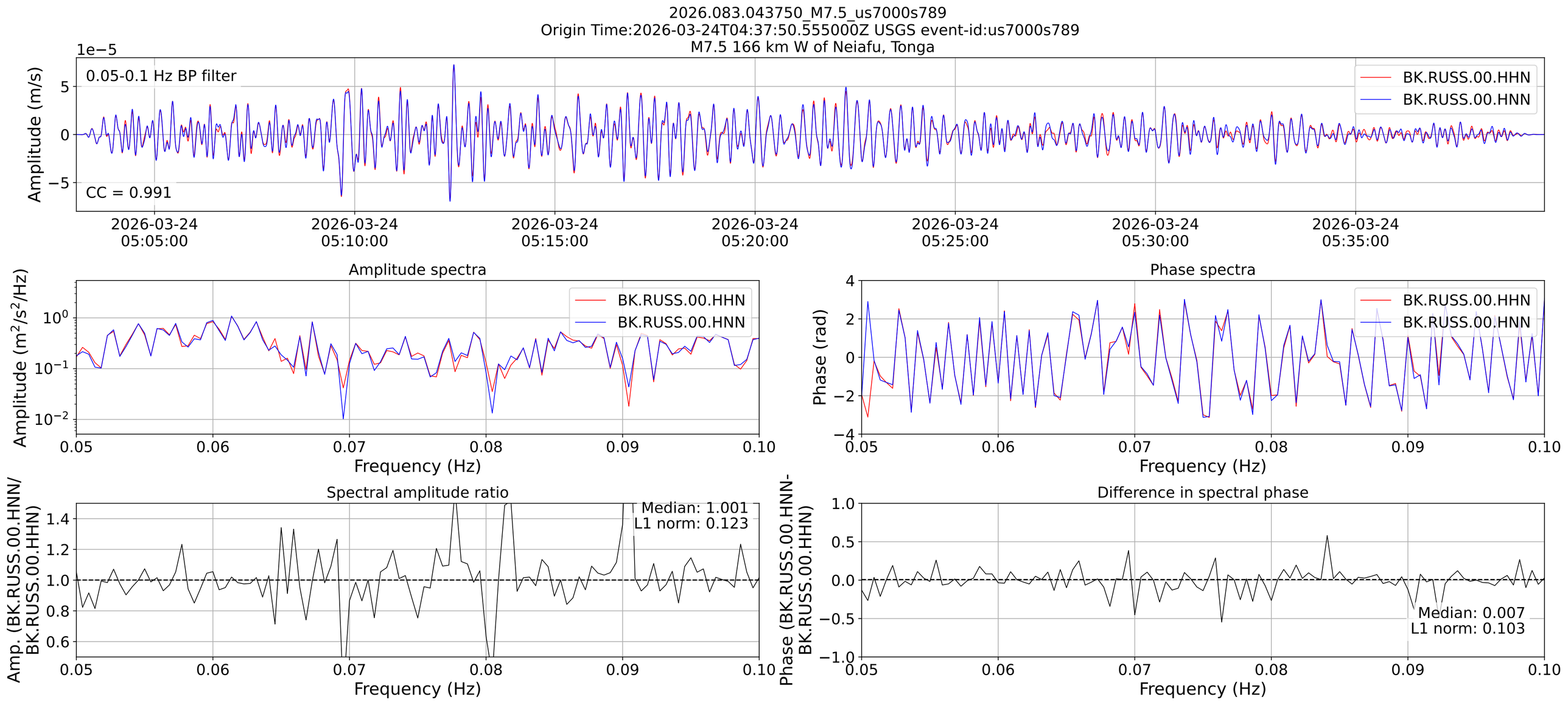

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.RIMR.00.HHZ
BK.RIMR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RIMR.00.HNZ/ BK.RIMR.00.HHZ)
Median: 1.010
L1 norm: 0.239
Difference in spectral phase
Phase (BK.RIMR.00.HNZ- BK.RIMR.00.HHZ)
Median: -0.013
L1 norm: 0.292

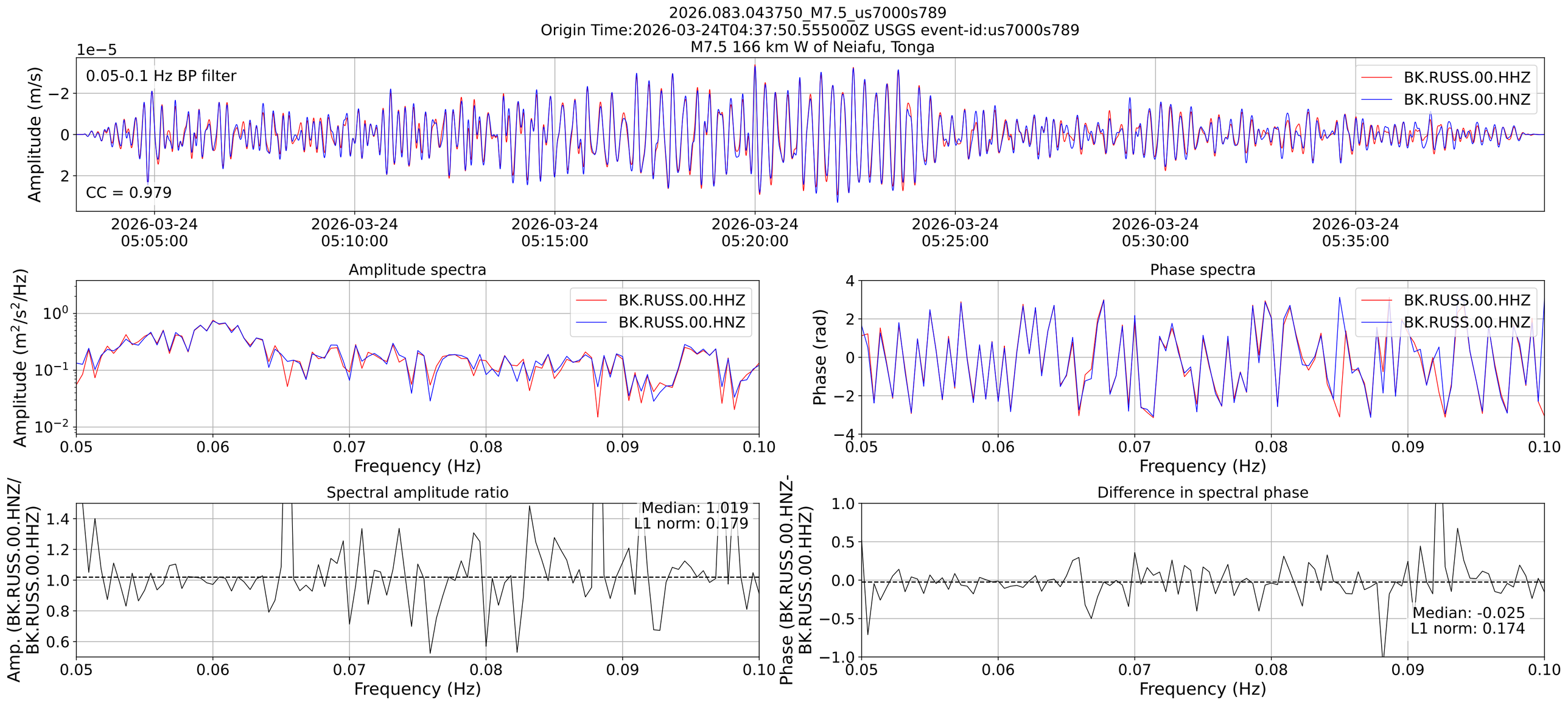

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
BK.ROMB.00.HHE
BK.ROMB.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNE/ BK.ROMB.00.HHE)
Median: 0.987
L1 norm: 0.067
Difference in spectral phase
Phase (BK.ROMB.00.HNE- BK.ROMB.00.HHE)
Median: 0.014
L1 norm: 0.078

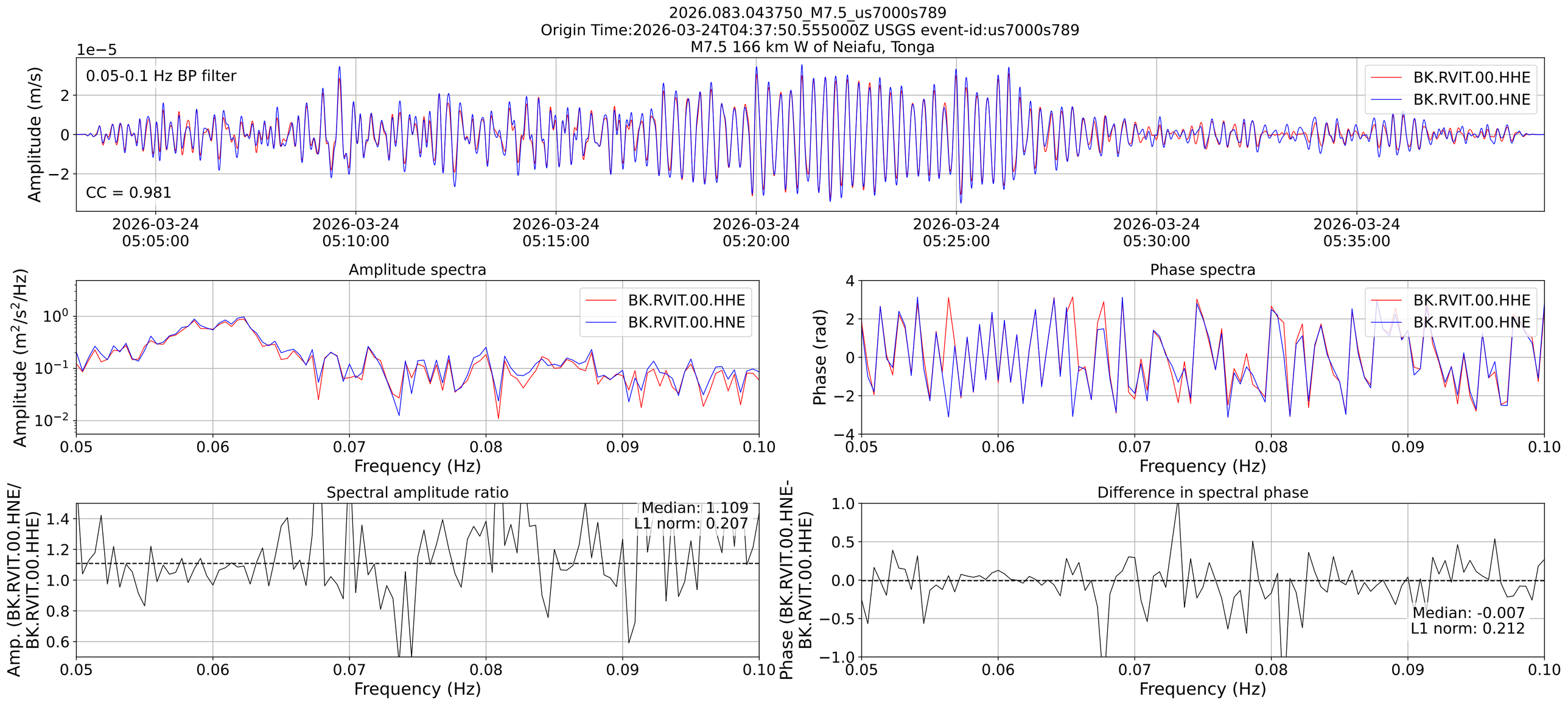

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.ROMB.00.HHN
BK.ROMB.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNN/ BK.ROMB.00.HHN)
Median: 1.000
L1 norm: 0.059
Difference in spectral phase
Phase (BK.ROMB.00.HNN- BK.ROMB.00.HHN)
Median: 0.005
L1 norm: 0.063

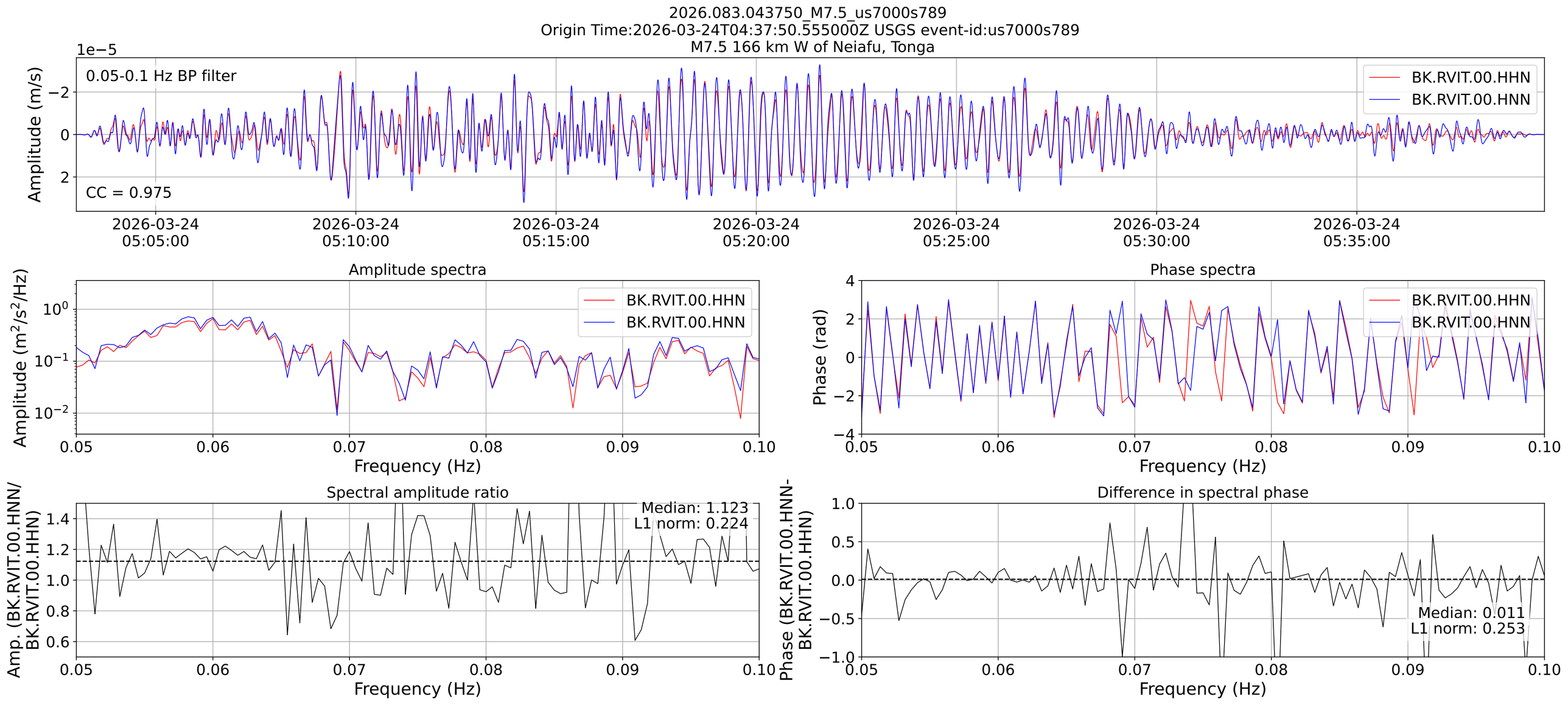

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.996
BK.ROMB.00.HHZ
BK.ROMB.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.ROMB.00.HNZ/ BK.ROMB.00.HHZ)
Median: 1.006
L1 norm: 0.081
Difference in spectral phase
Phase (BK.ROMB.00.HNZ- BK.ROMB.00.HHZ)
Median: -0.009
L1 norm: 0.082

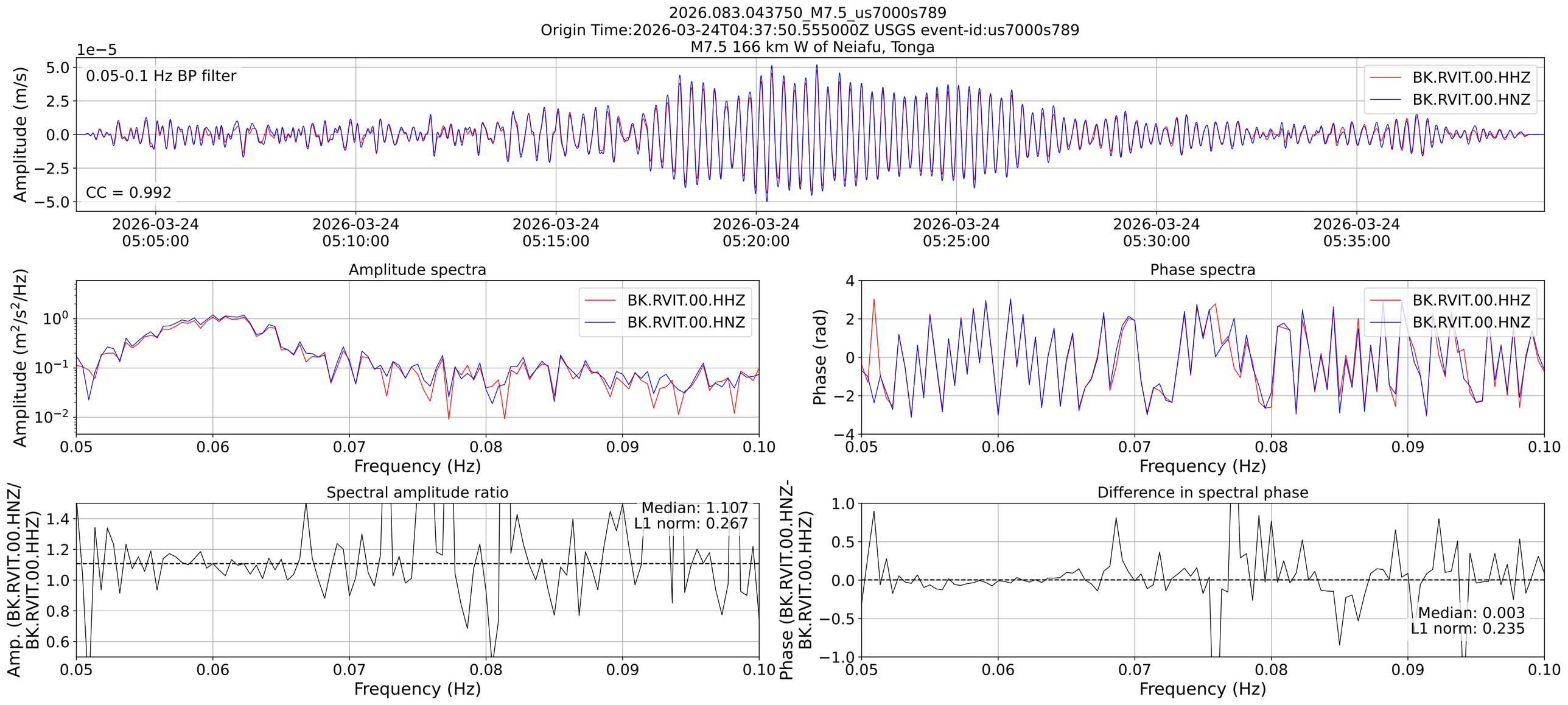

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
BK.RUSS.00.HHE
BK.RUSS.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNE/ BK.RUSS.00.HHE)
Median: 0.996
L1 norm: 0.094
Difference in spectral phase
Phase (BK.RUSS.00.HNE- BK.RUSS.00.HHE)
Median: 0.005
L1 norm: 0.107

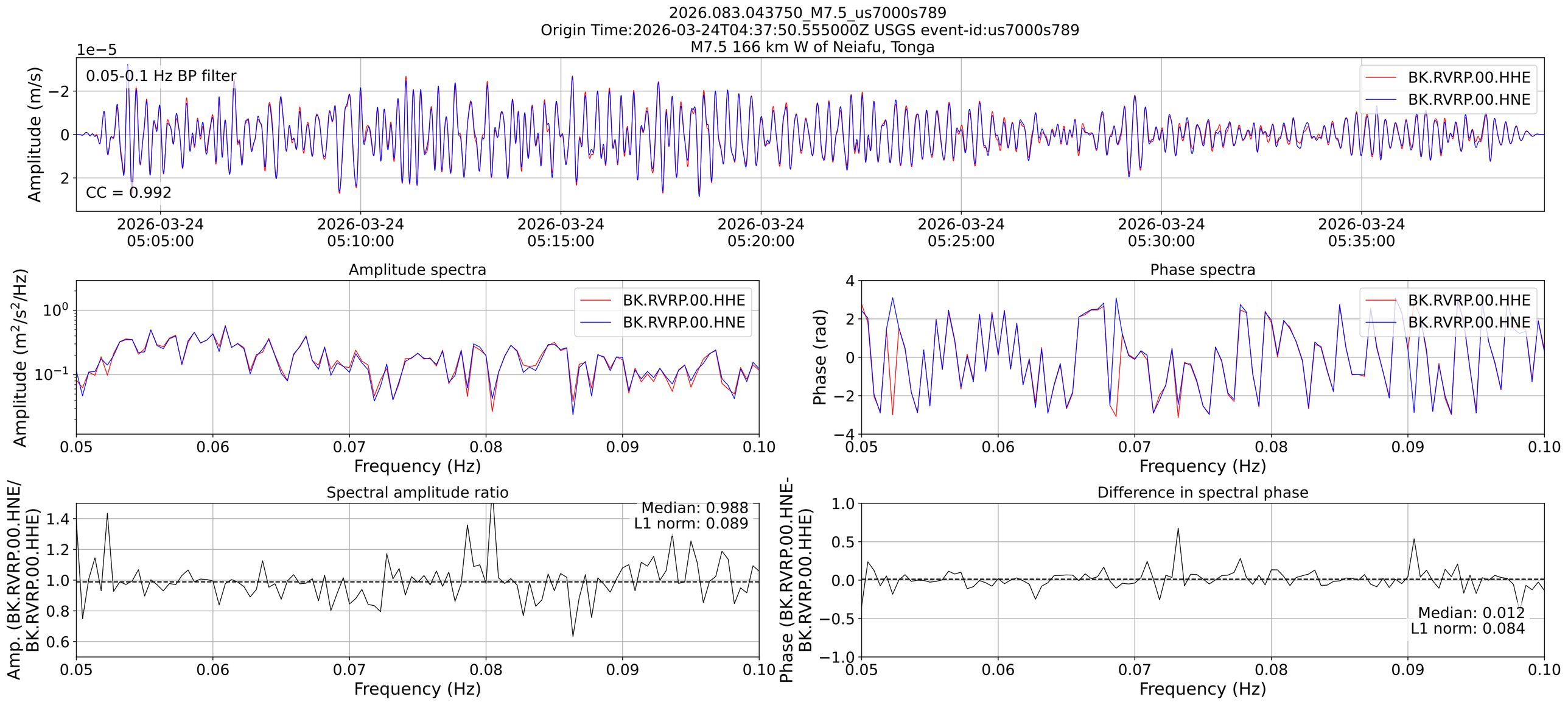

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
BK.RUSS.00.HHN
BK.RUSS.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNN/ BK.RUSS.00.HHN)
Median: 1.001
L1 norm: 0.123
Difference in spectral phase
Phase (BK.RUSS.00.HNN- BK.RUSS.00.HHN)
Median: 0.007
L1 norm: 0.103

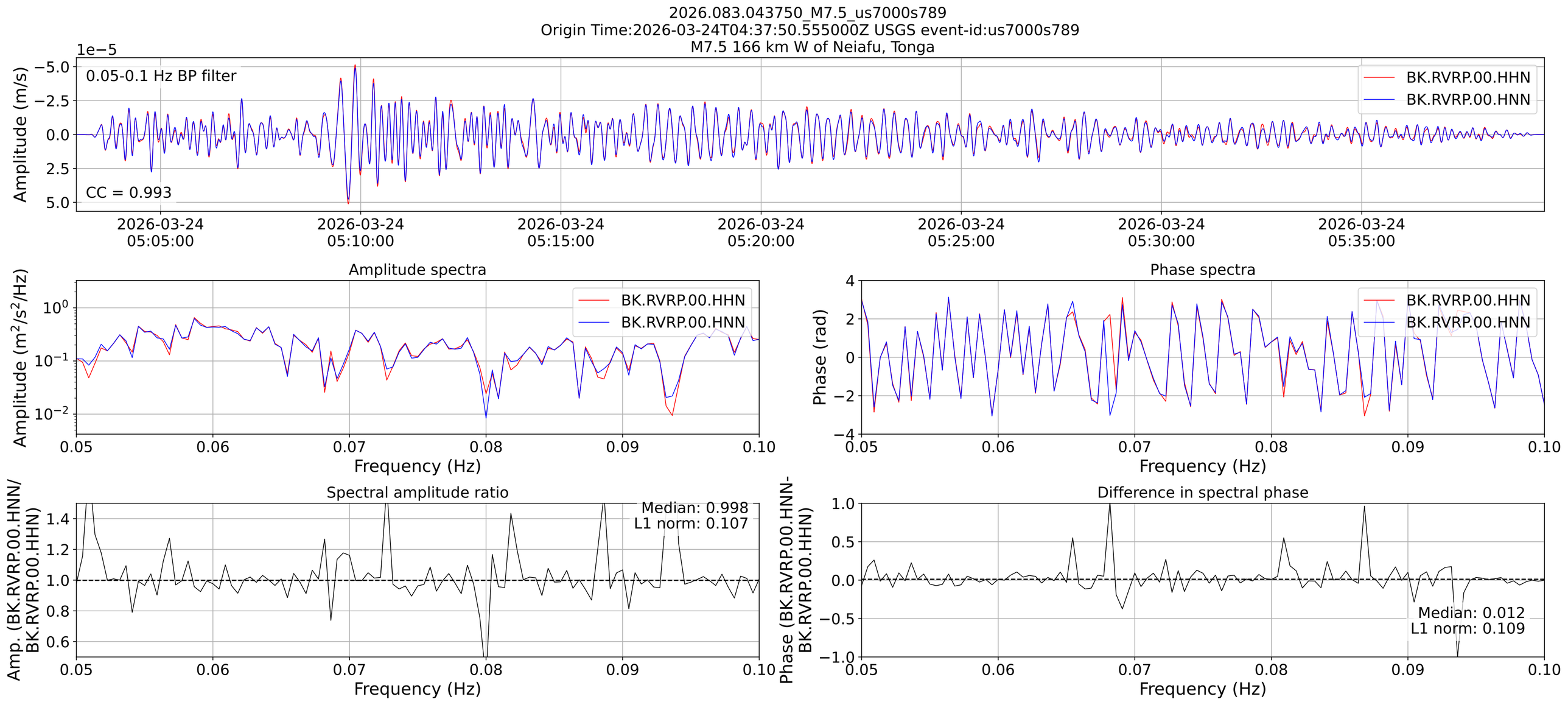

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.RUSS.00.HHZ
BK.RUSS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RUSS.00.HNZ/ BK.RUSS.00.HHZ)
Median: 1.019
L1 norm: 0.179
Difference in spectral phase
Phase (BK.RUSS.00.HNZ- BK.RUSS.00.HHZ)
Median: -0.025
L1 norm: 0.174

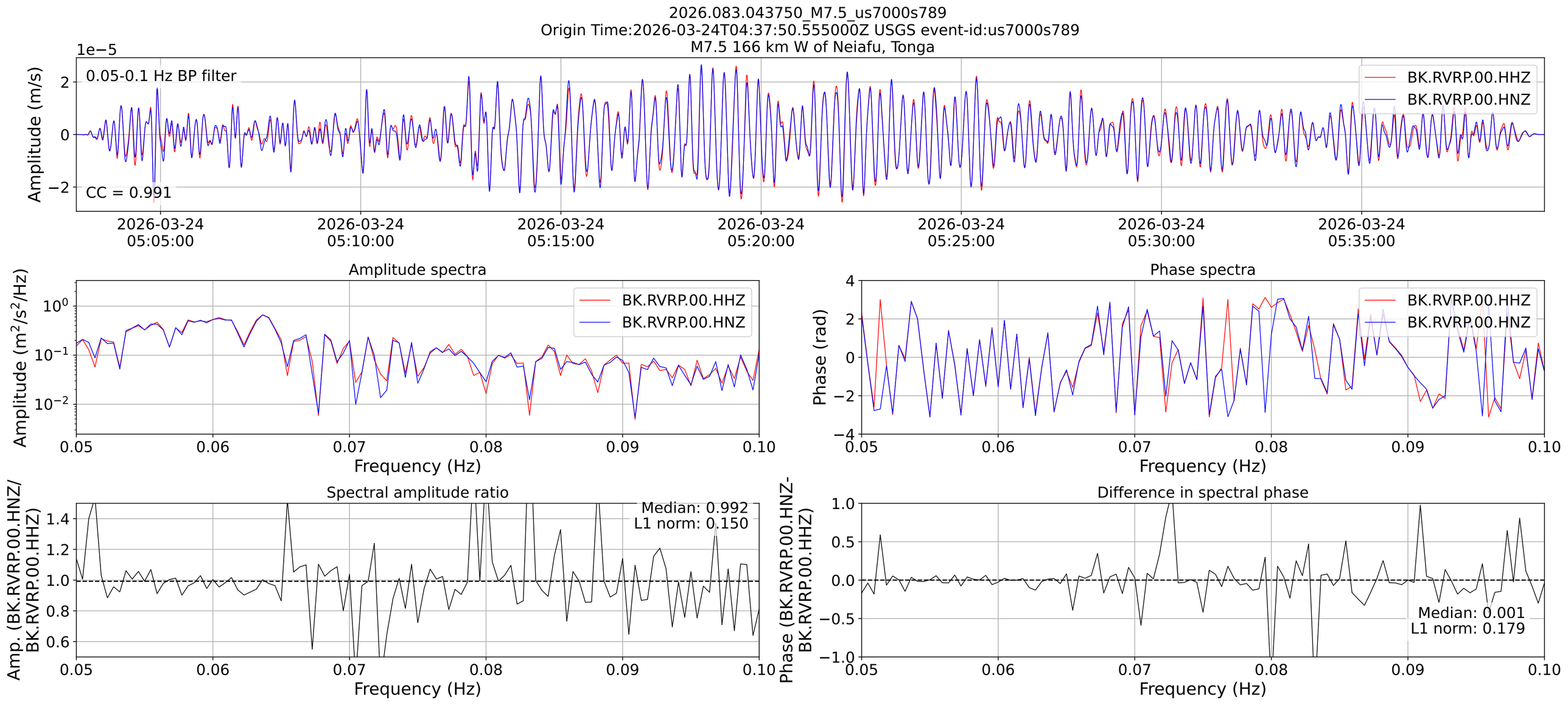

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.RVIT.00.HHE
BK.RVIT.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNE/ BK.RVIT.00.HHE)
Median: 1.109
L1 norm: 0.207
Difference in spectral phase
Phase (BK.RVIT.00.HNE- BK.RVIT.00.HHE)
Median: -0.007
L1 norm: 0.212

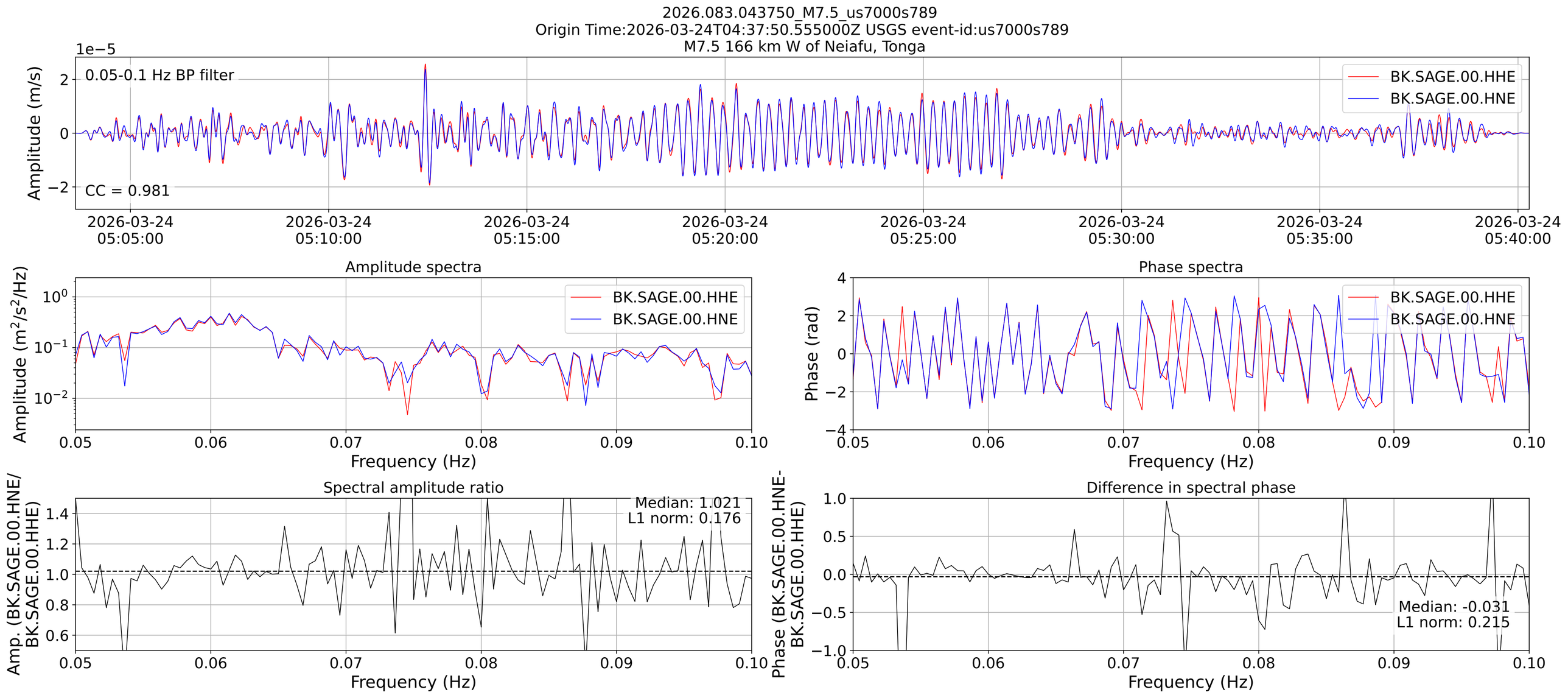

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.975
BK.RVIT.00.HHN
BK.RVIT.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNN/ BK.RVIT.00.HHN)
Median: 1.123
L1 norm: 0.224
Difference in spectral phase
Phase (BK.RVIT.00.HNN- BK.RVIT.00.HHN)
Median: 0.011
L1 norm: 0.253

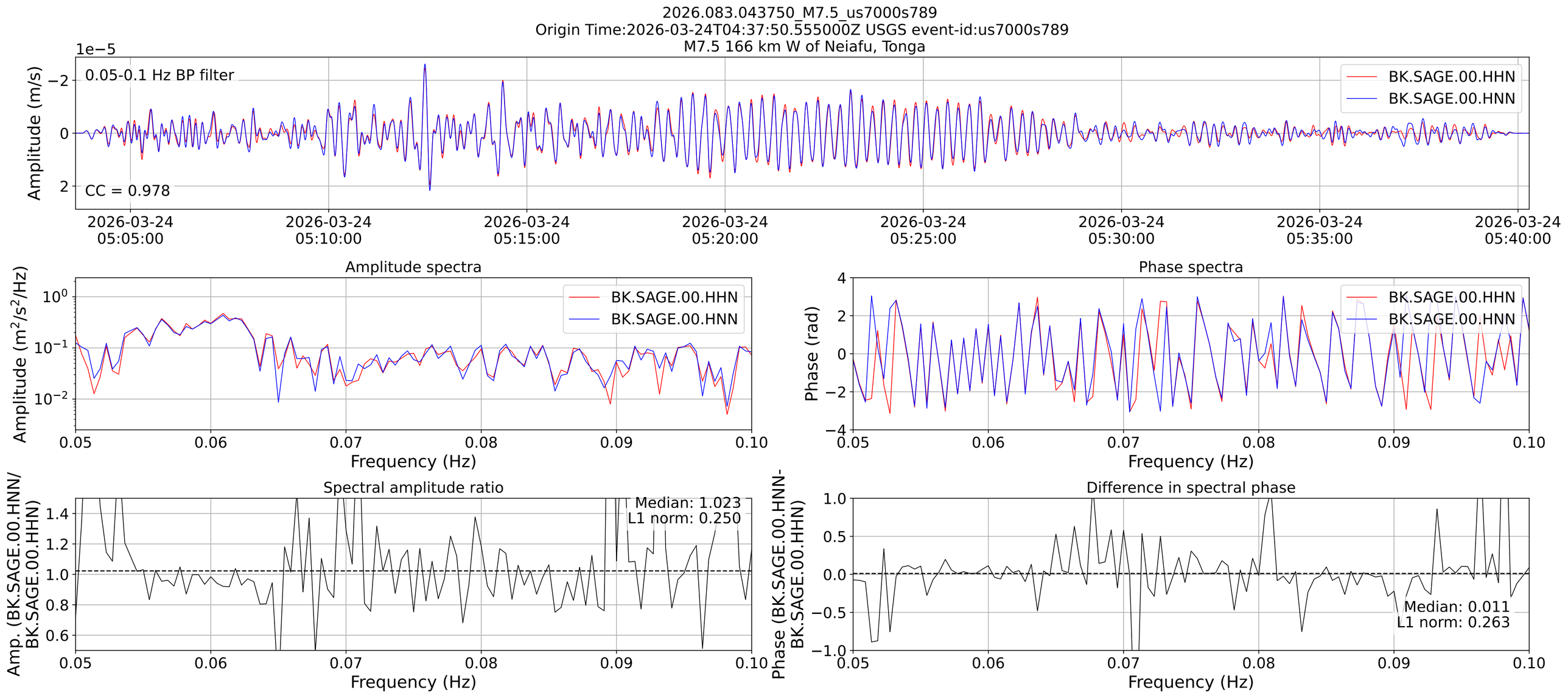

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
BK.RVIT.00.HHZ
BK.RVIT.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVIT.00.HNZ/ BK.RVIT.00.HHZ)
Median: 1.107
L1 norm: 0.267
Difference in spectral phase
Phase (BK.RVIT.00.HNZ- BK.RVIT.00.HHZ)
Median: 0.003
L1 norm: 0.235

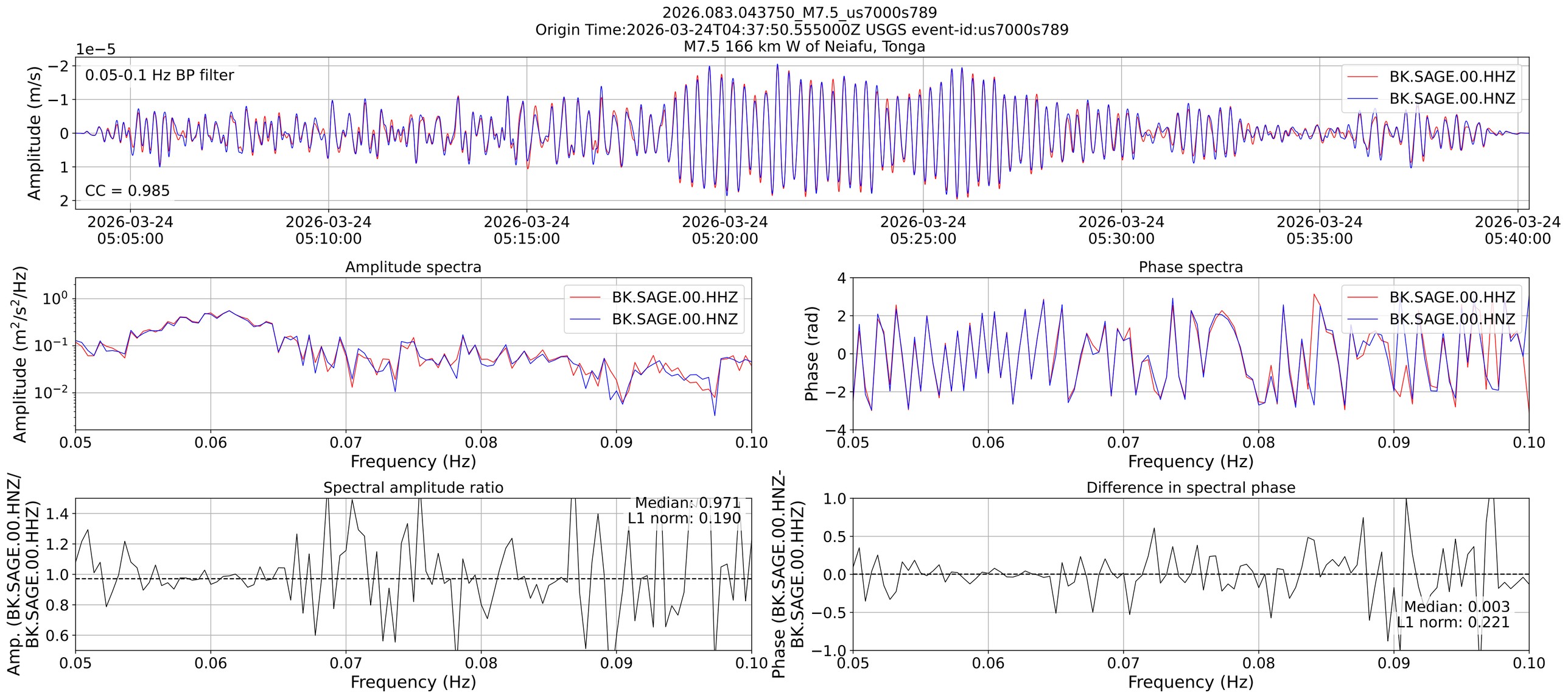

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.RVRP.00.HHE
BK.RVRP.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNE/ BK.RVRP.00.HHE)
Median: 0.988
L1 norm: 0.089
Difference in spectral phase
Phase (BK.RVRP.00.HNE- BK.RVRP.00.HHE)
Median: 0.012
L1 norm: 0.084

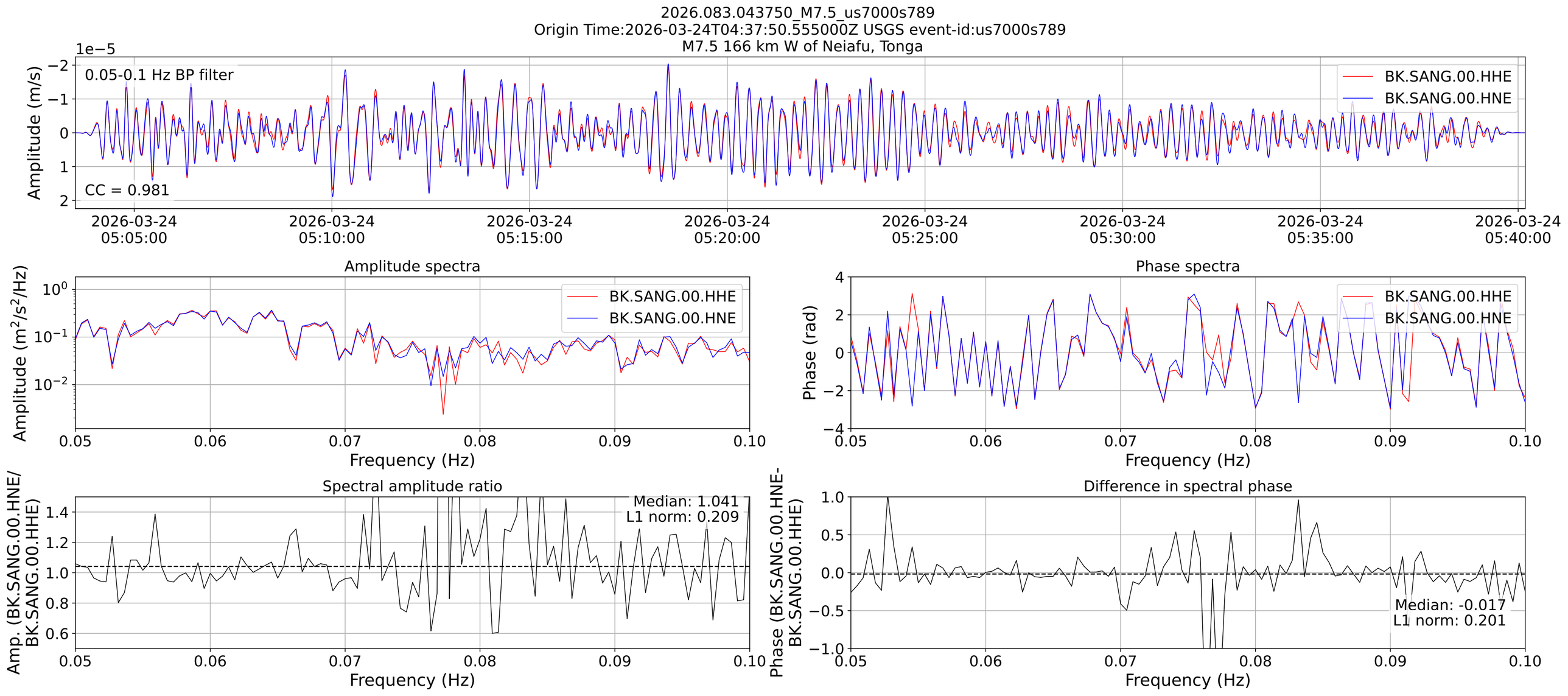

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
BK.RVRP.00.HHN
BK.RVRP.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNN/ BK.RVRP.00.HHN)
Median: 0.998
L1 norm: 0.107
Difference in spectral phase
Phase (BK.RVRP.00.HNN- BK.RVRP.00.HHN)
Median: 0.012
L1 norm: 0.109

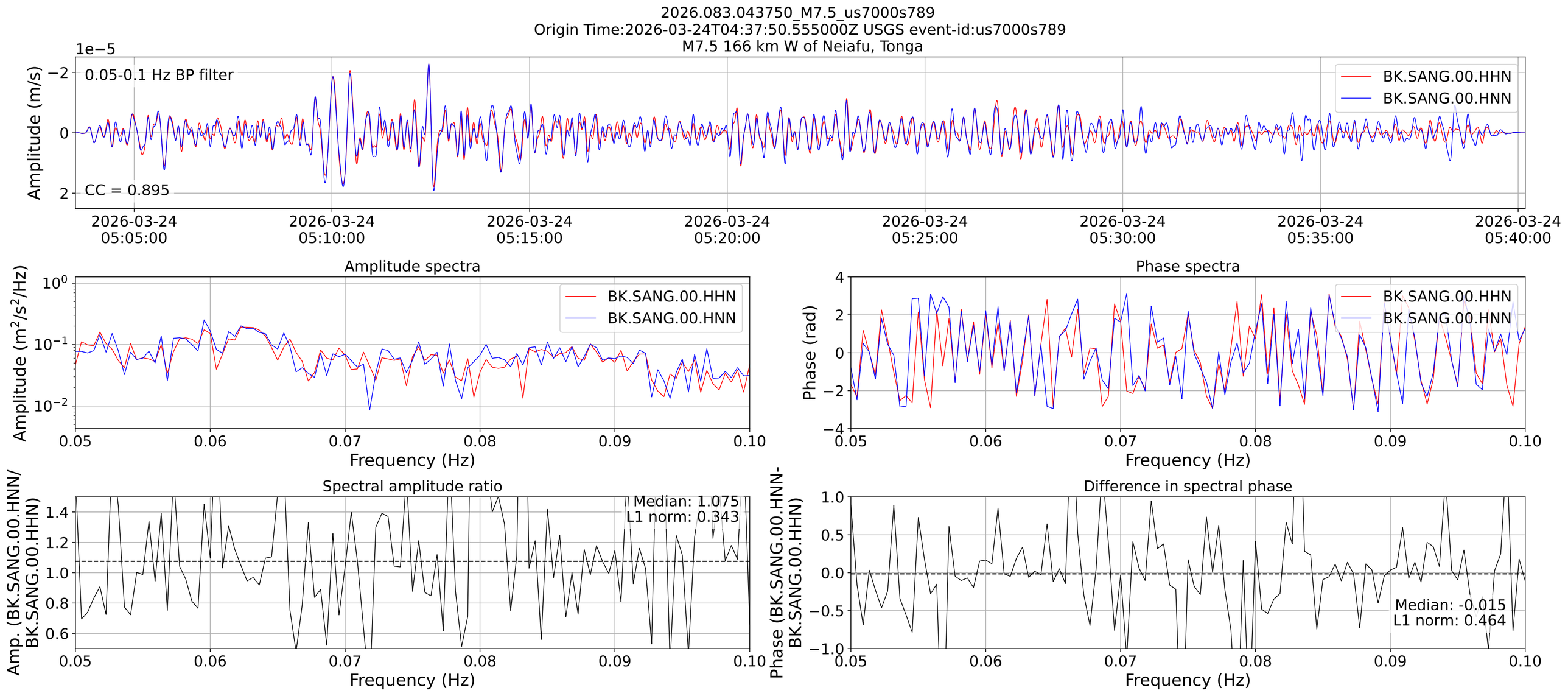

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.RVRP.00.HHZ
BK.RVRP.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.RVRP.00.HNZ/ BK.RVRP.00.HHZ)
Median: 0.992
L1 norm: 0.150
Difference in spectral phase
Phase (BK.RVRP.00.HNZ- BK.RVRP.00.HHZ)
Median: 0.001
L1 norm: 0.179

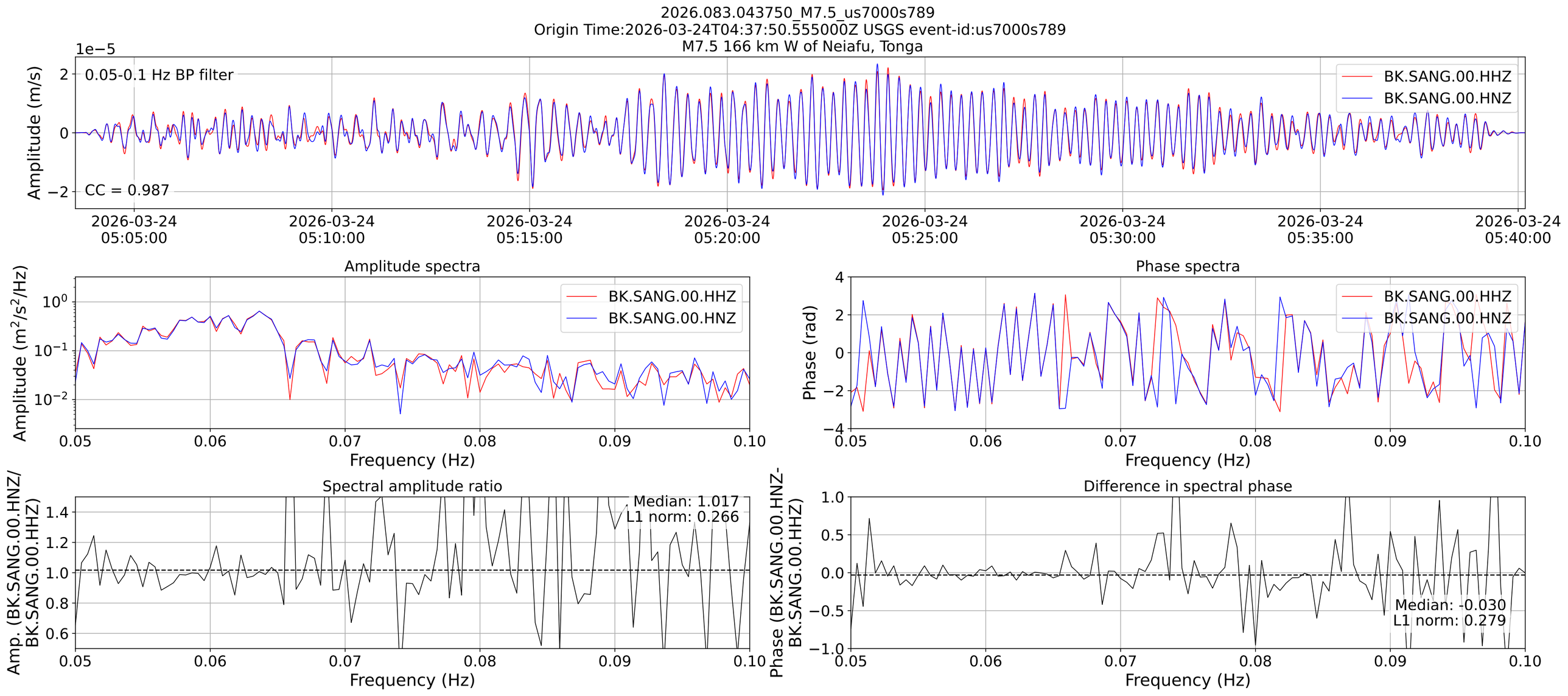

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
Amplitude (m/s)
BK.SAGE.00.HHE
BK.SAGE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNE/ BK.SAGE.00.HHE)
Median: 1.021
L1 norm: 0.176
Difference in spectral phase
Phase (BK.SAGE.00.HNE- BK.SAGE.00.HHE)
Median: -0.031
L1 norm: 0.215

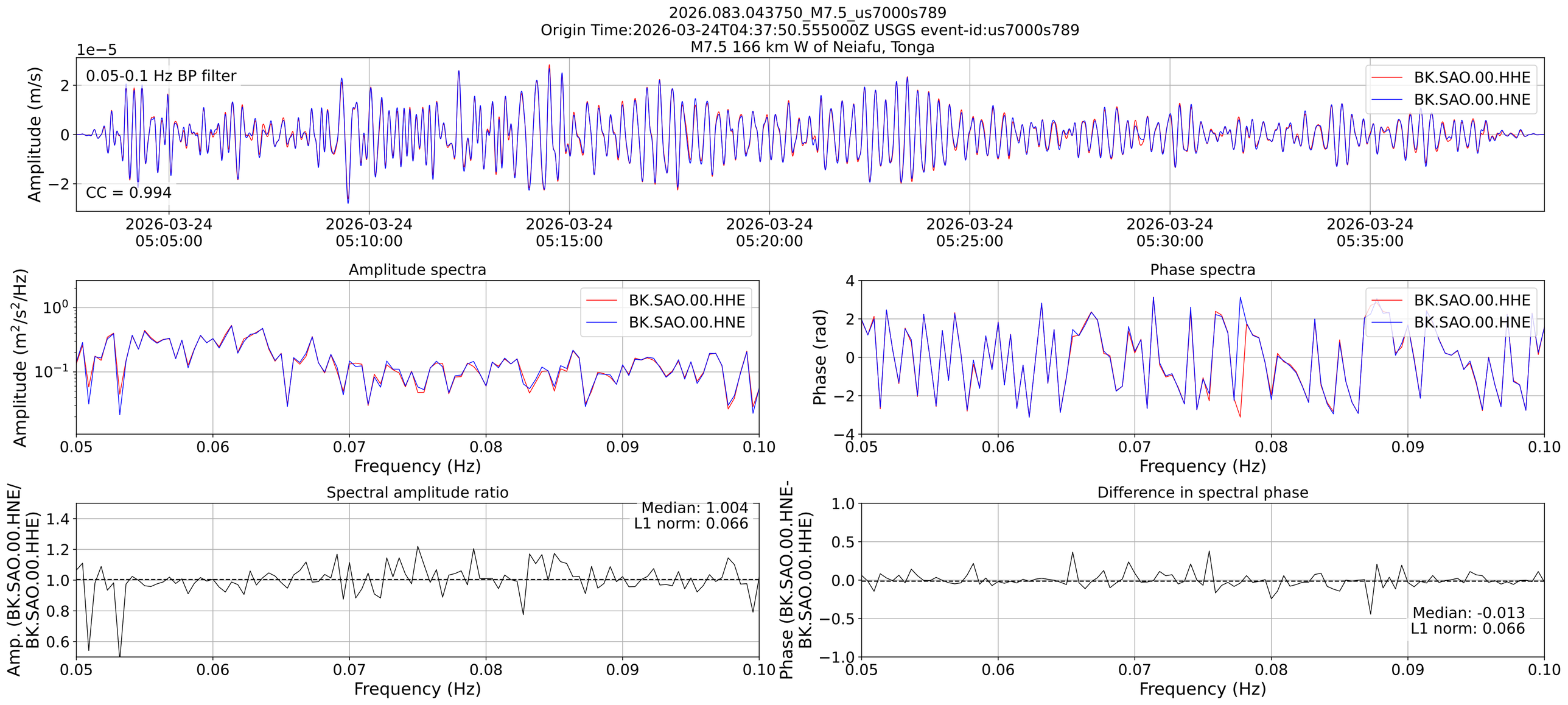

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.SAGE.00.HHN
BK.SAGE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNN/ BK.SAGE.00.HHN)
Median: 1.023
L1 norm: 0.250
Difference in spectral phase
Phase (BK.SAGE.00.HNN- BK.SAGE.00.HHN)
Median: 0.011
L1 norm: 0.263

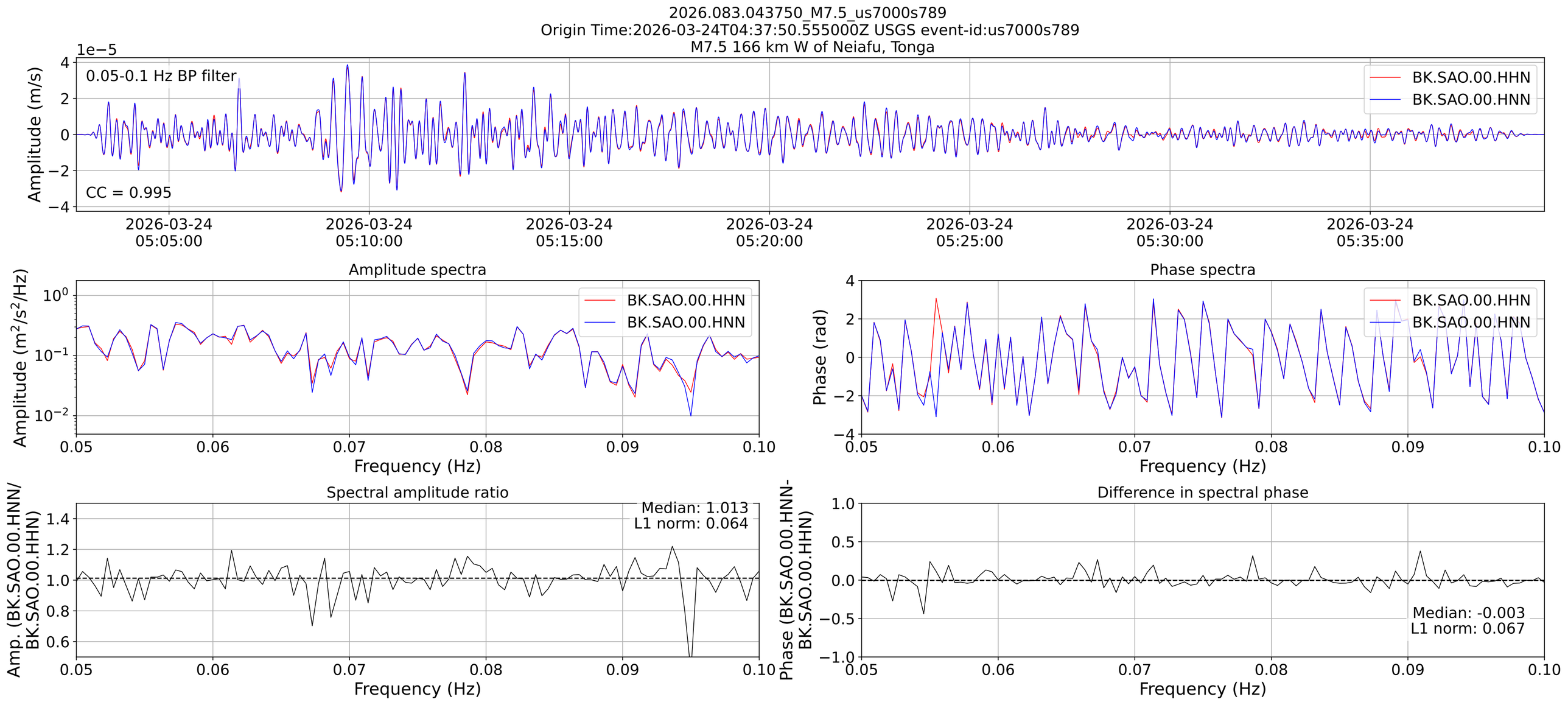

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.SAGE.00.HHZ
BK.SAGE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAGE.00.HNZ/ BK.SAGE.00.HHZ)
Median: 0.971
L1 norm: 0.190
Difference in spectral phase
Phase (BK.SAGE.00.HNZ- BK.SAGE.00.HHZ)
Median: 0.003
L1 norm: 0.221

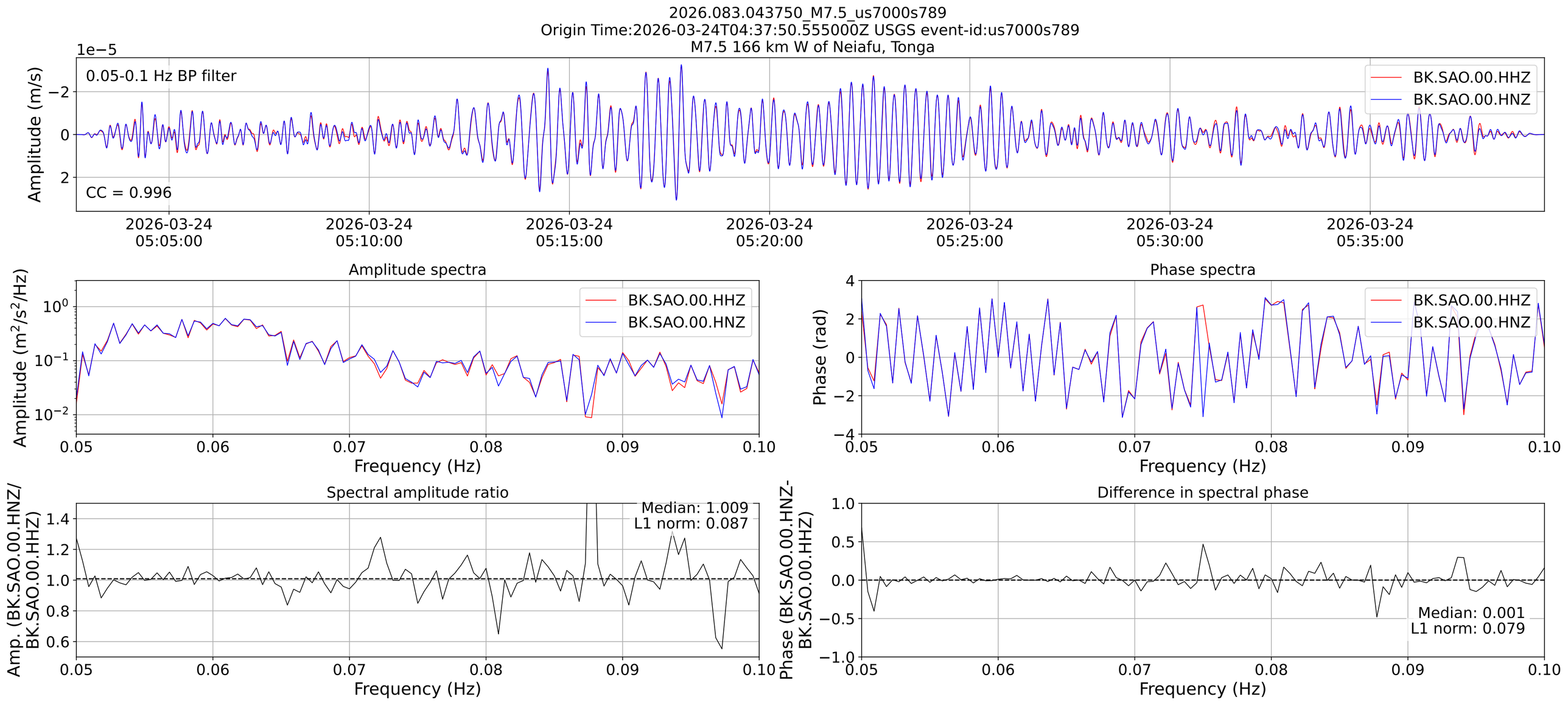

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.981
BK.SANG.00.HHE
BK.SANG.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNE/ BK.SANG.00.HHE)
Median: 1.041
L1 norm: 0.209
Difference in spectral phase
Phase (BK.SANG.00.HNE- BK.SANG.00.HHE)
Median: -0.017
L1 norm: 0.201

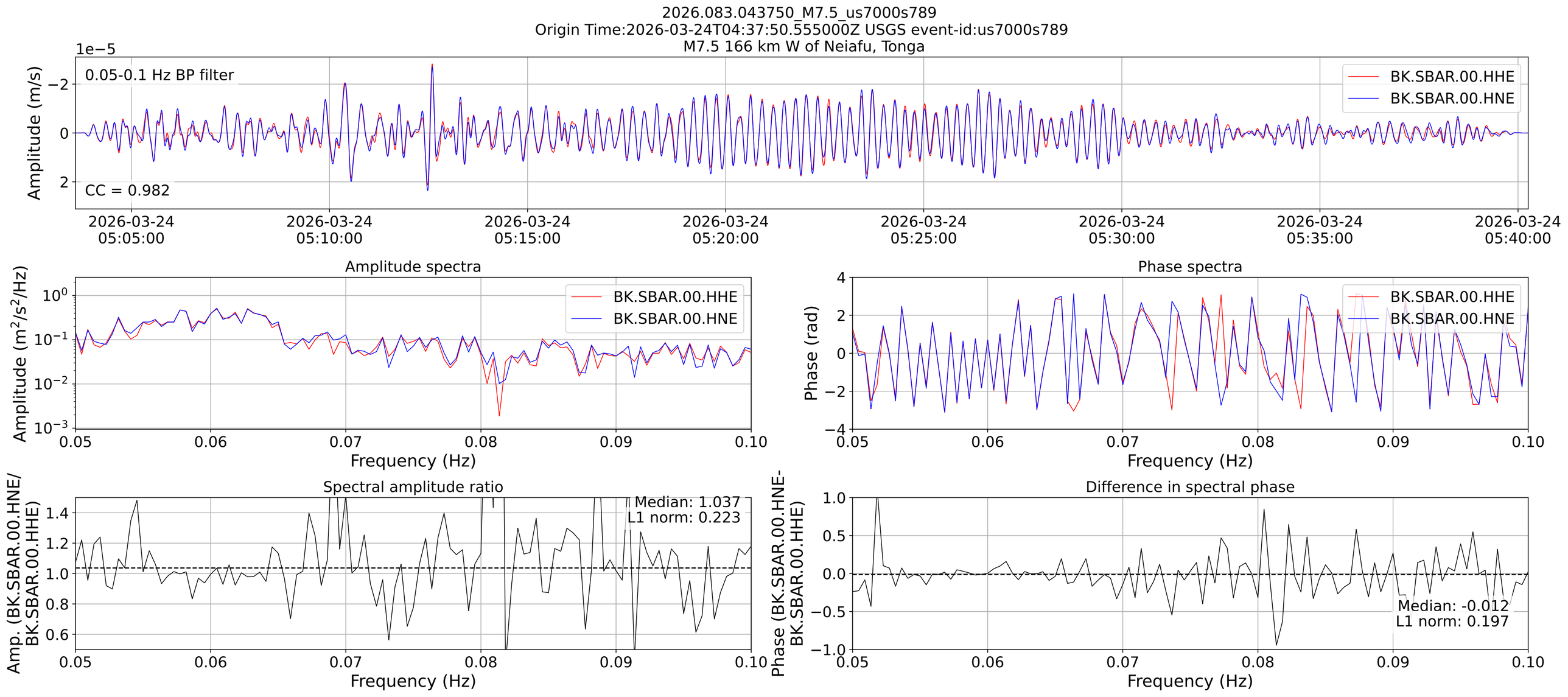

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.895
Amplitude (m/s)
BK.SANG.00.HHN
BK.SANG.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNN/ BK.SANG.00.HHN)
Median: 1.075
L1 norm: 0.343
Difference in spectral phase
Phase (BK.SANG.00.HNN-BK.SANG.00.HHN)
Median: -0.015
L1 norm: 0.464

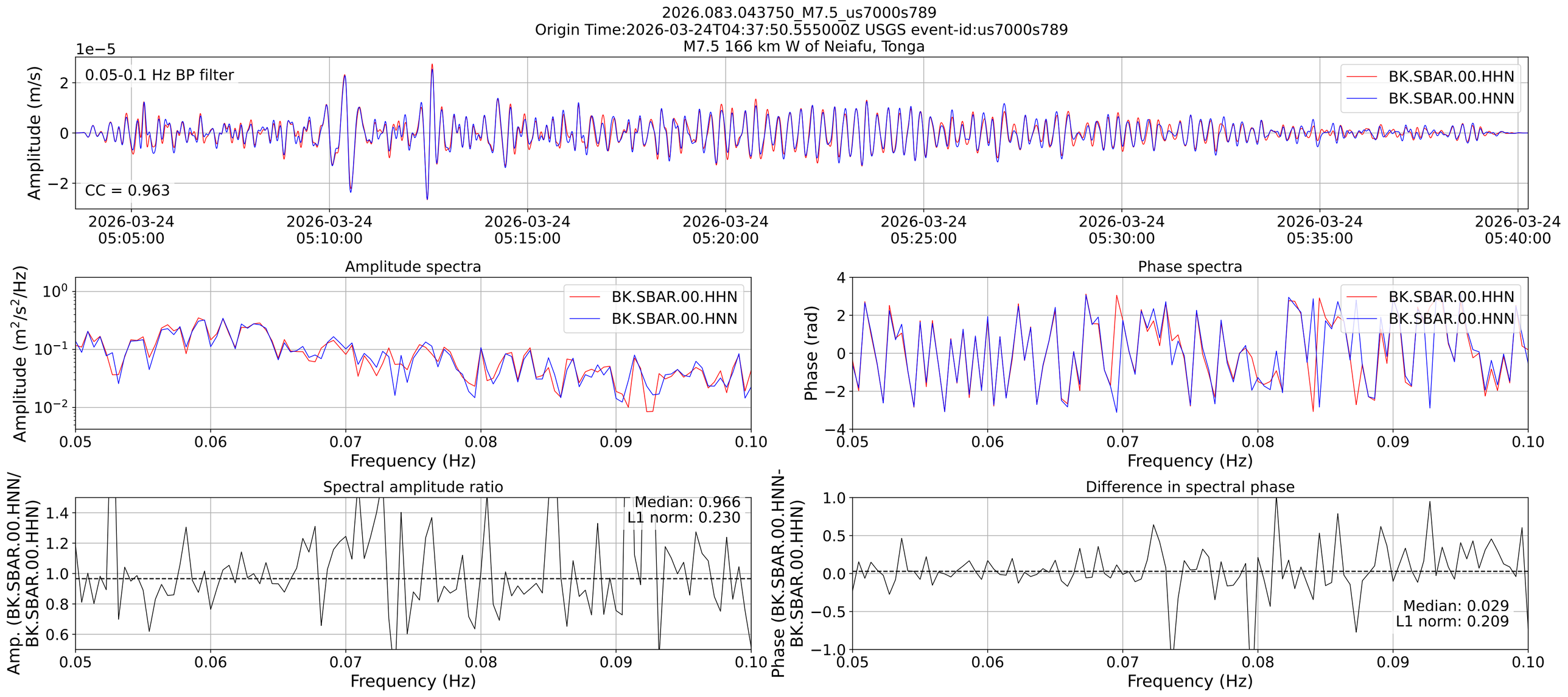

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.SANG.00.HHZ
BK.SANG.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SANG.00.HNZ/ BK.SANG.00.HHZ)
Median: 1.017
L1 norm: 0.266
Difference in spectral phase
Phase (BK.SANG.00.HNZ- BK.SANG.00.HHZ)
Median: -0.030
L1 norm: 0.279

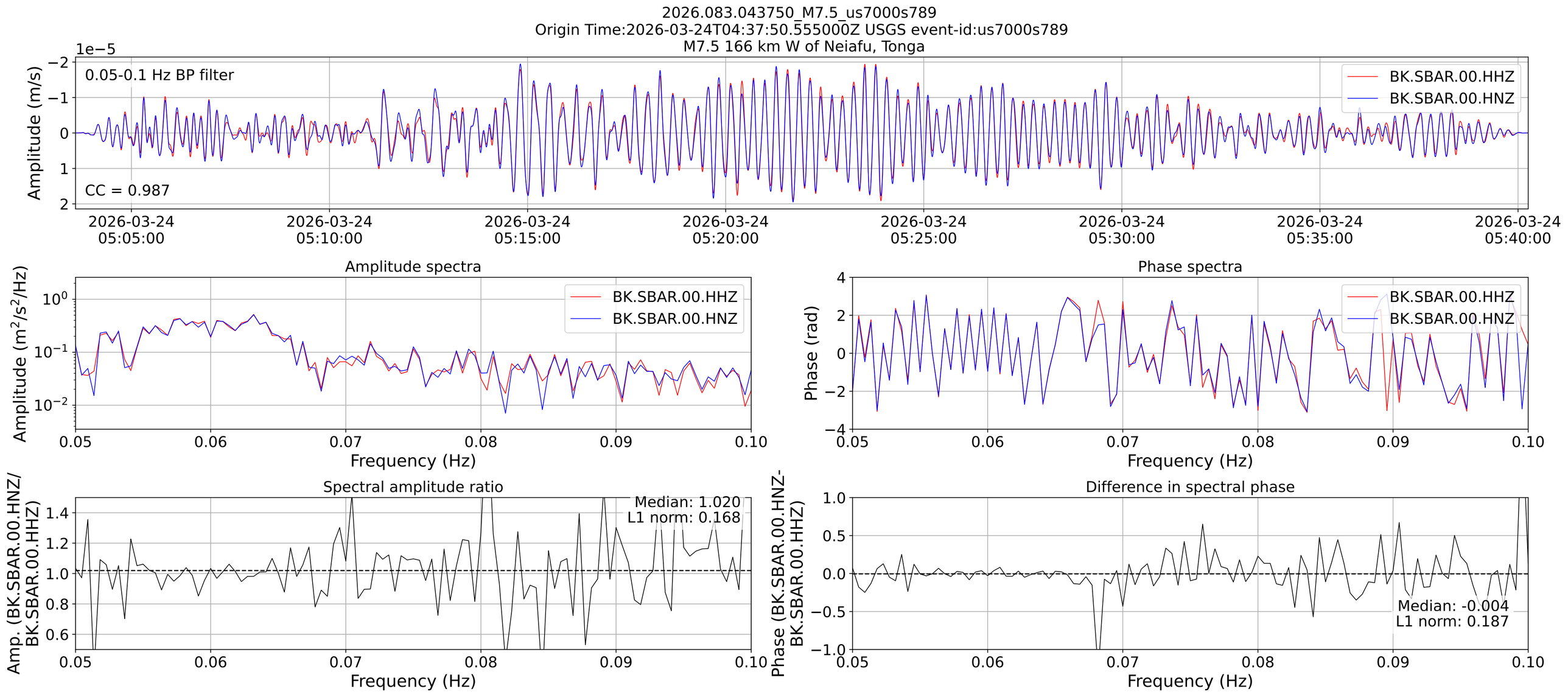

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.SAO.00.HHE
BK.SAO.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNE/ BK.SAO.00.HHE)
Median: 1.004
L1 norm: 0.066
Difference in spectral phase
Phase (BK.SAO.00.HNE- BK.SAO.00.HHE)
Median: -0.013
L1 norm: 0.066

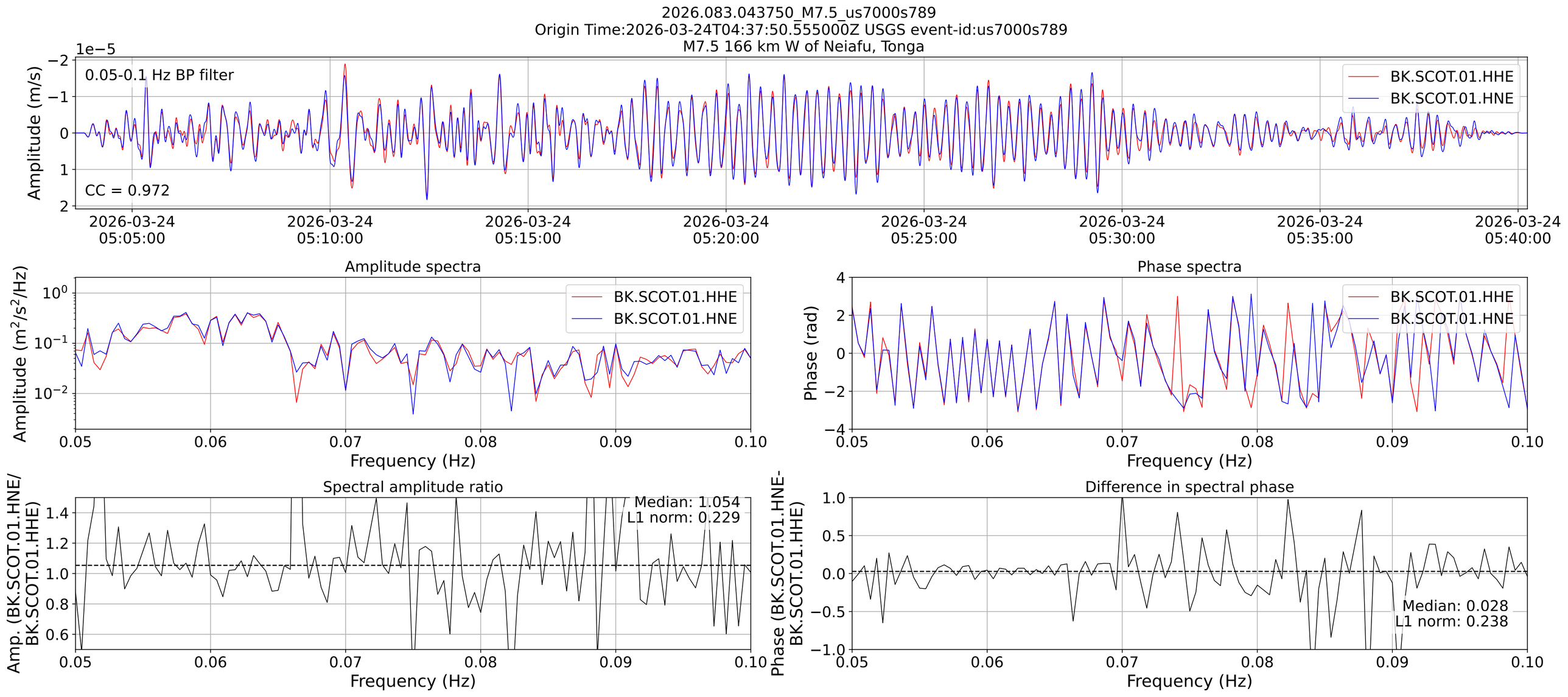

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.SAO.00.HHN
BK.SAO.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNN/ BK.SAO.00.HHN)
Median: 1.013
L1 norm: 0.064
Difference in spectral phase
Phase (BK.SAO.00.HNN- BK.SAO.00.HHN)
Median: -0.003
L1 norm: 0.067

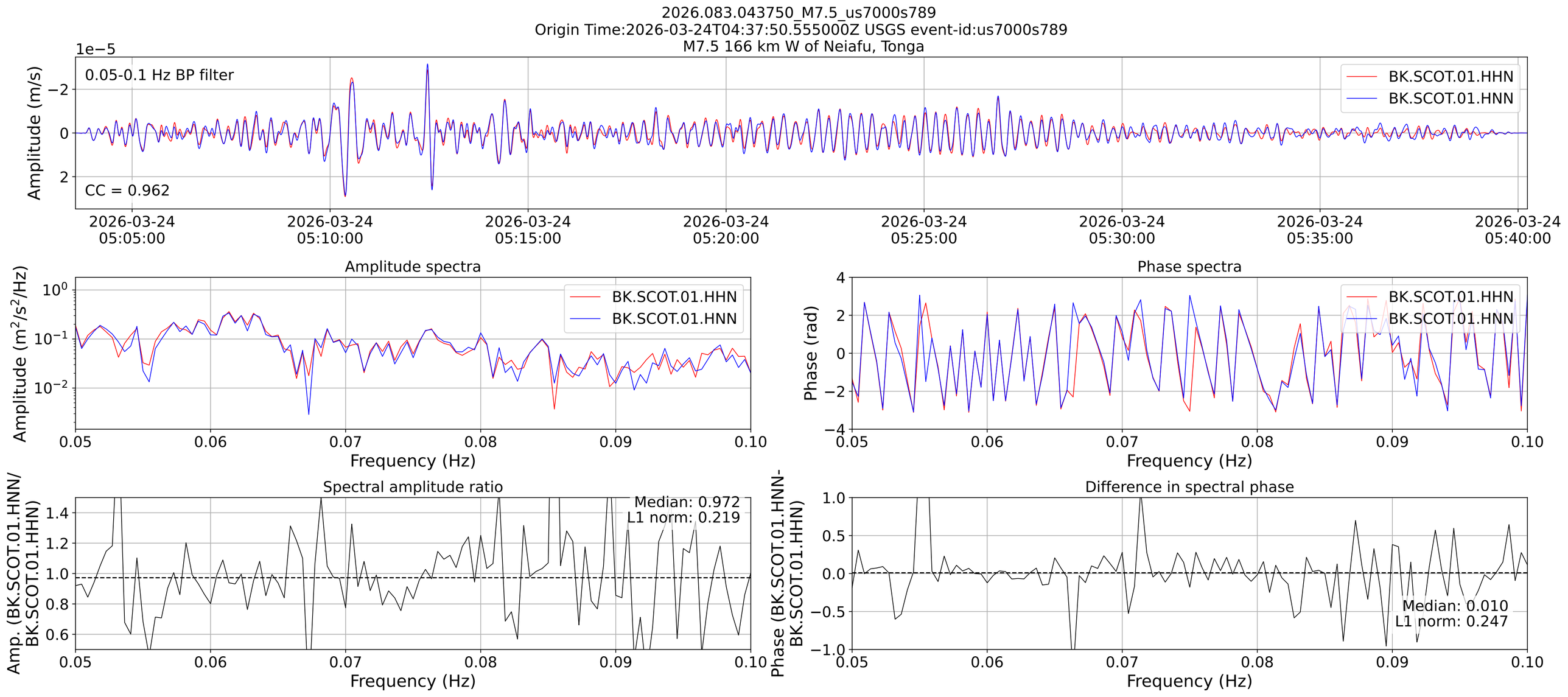

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
BK.SAO.00.HHZ
BK.SAO.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SAO.00.HNZ/ BK.SAO.00.HHZ)
Median: 1.009
L1 norm: 0.087
Difference in spectral phase
Phase (BK.SAO.00.HNZ- BK.SAO.00.HHZ)
Median: 0.001
L1 norm: 0.079

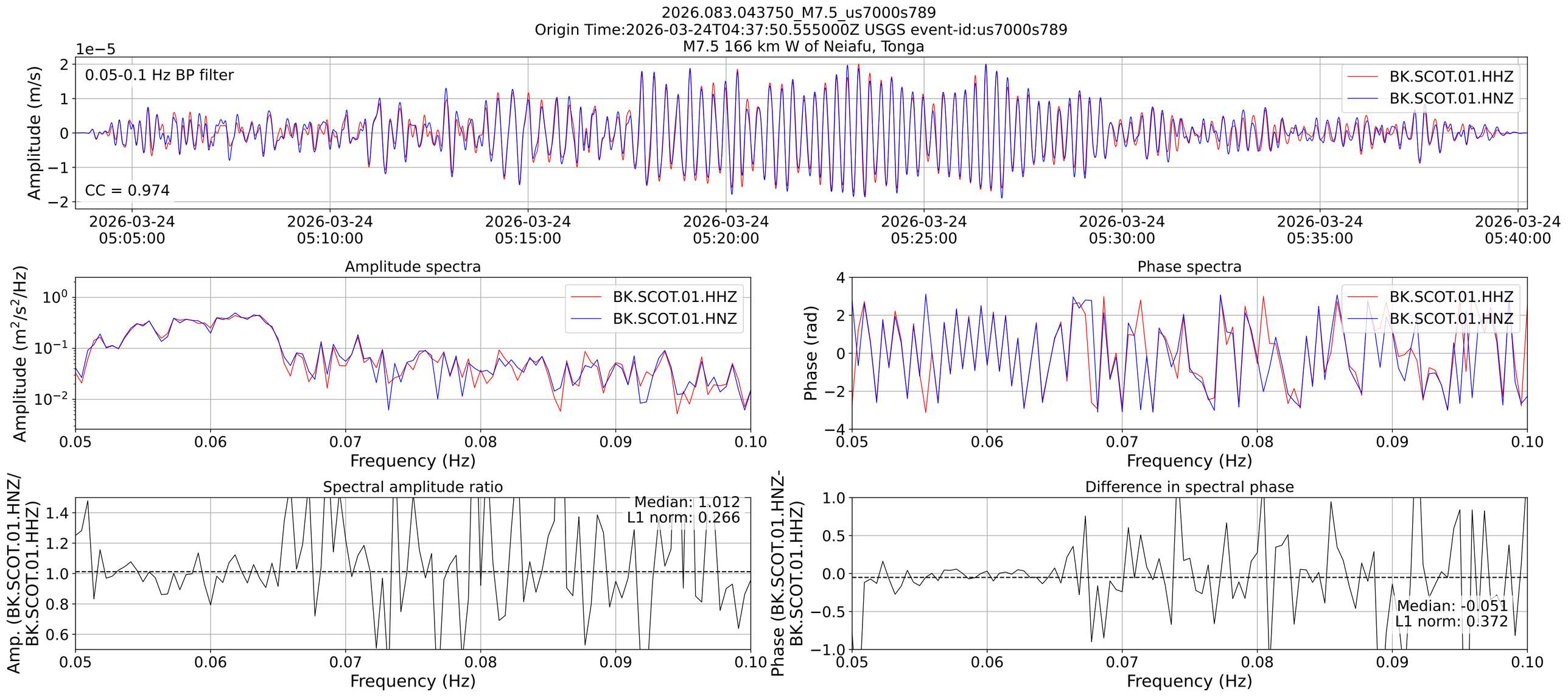

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.982
Amplitude (m/s)
BK.SBAR.00.HHE
BK.SBAR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNE/ BK.SBAR.00.HHE)
Median: 1.037
L1 norm: 0.223
Difference in spectral phase
Phase (BK.SBAR.00.HNE- BK.SBAR.00.HHE)
Median: -0.012
L1 norm: 0.197

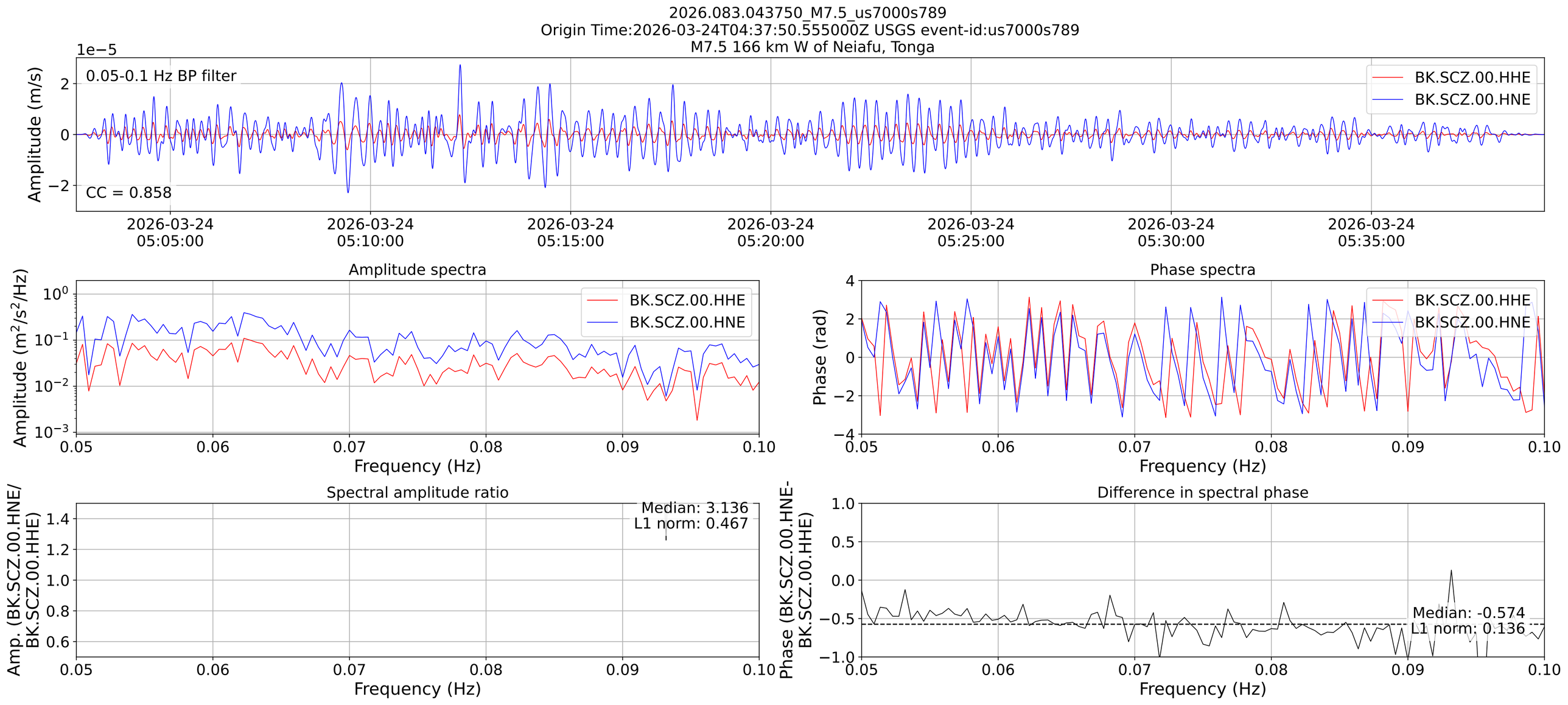

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.963
Amplitude (m/s)
BK.SBAR.00.HHN
BK.SBAR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNN/ BK.SBAR.00.HHN)
Median: 0.966
L1 norm: 0.230
Difference in spectral phase
Phase (BK.SBAR.00.HNN- BK.SBAR.00.HHN)
Median: 0.029
L1 norm: 0.209

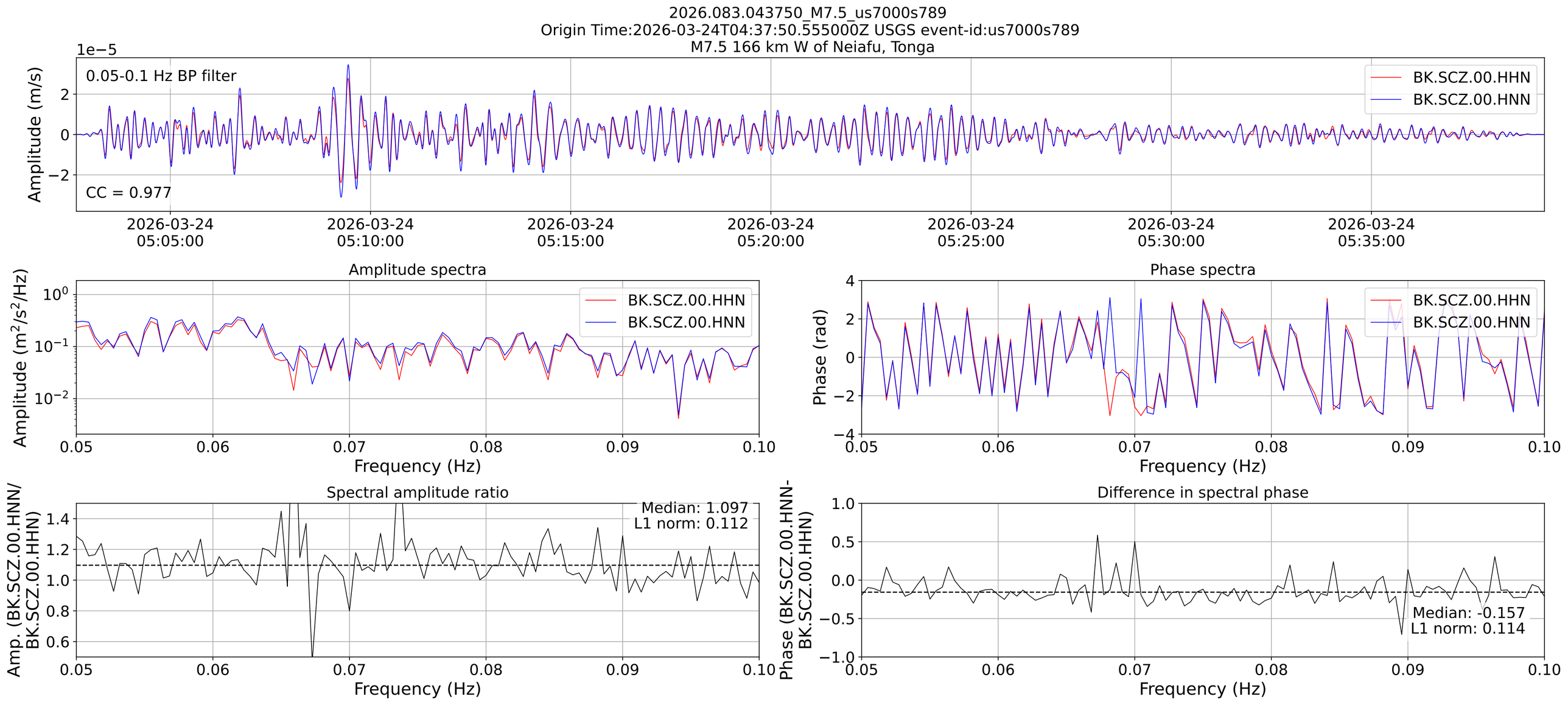

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
BK.SBAR.00.HHZ
BK.SBAR.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SBAR.00.HNZ/ BK.SBAR.00.HHZ)
Median: 1.020
L1 norm: 0.168
Difference in spectral phase
Phase (BK.SBAR.00.HNZ- BK.SBAR.00.HHZ)
Median: -0.004
L1 norm: 0.187

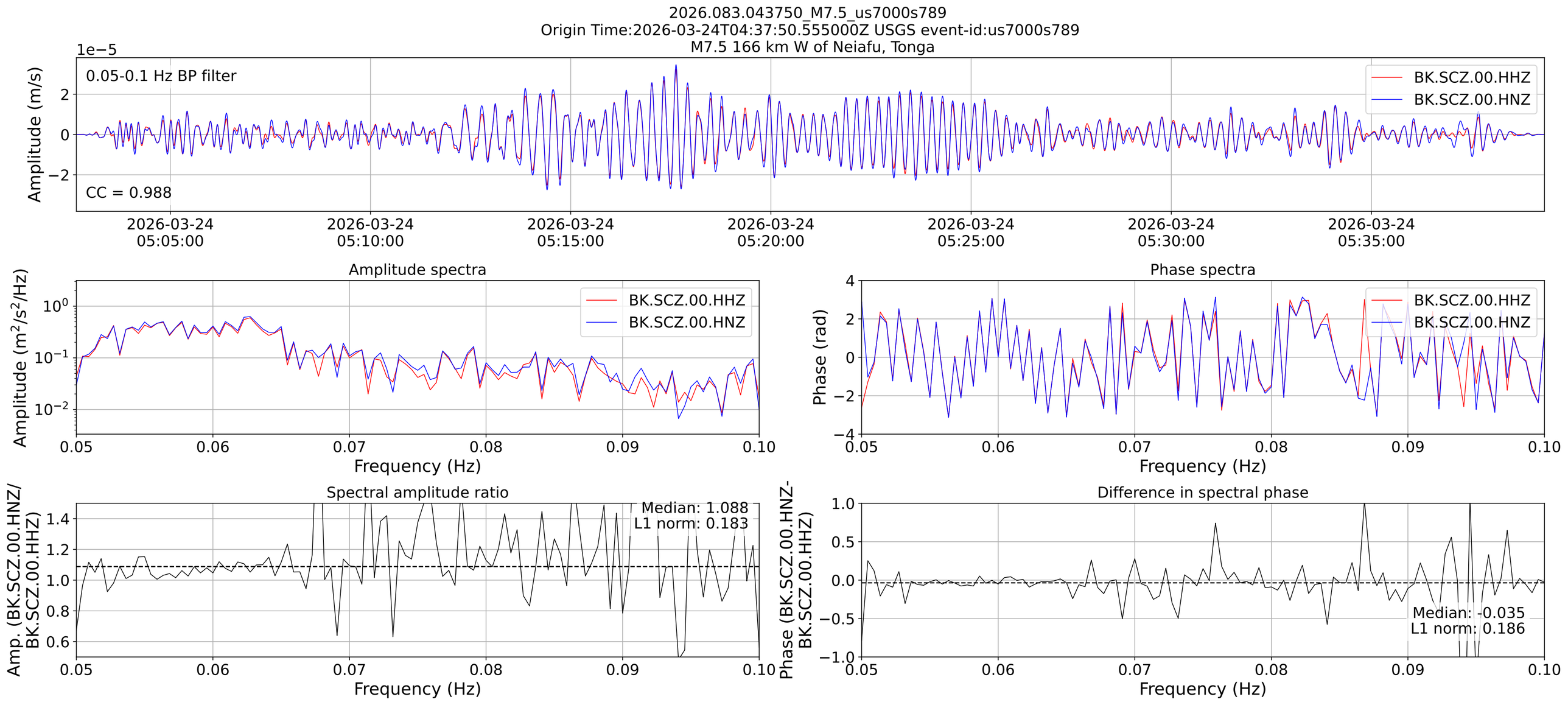

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.972
Amplitude (m/s)
BK.SCOT.01.HHE
BK.SCOT.01.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNE/ BK.SCOT.01.HHE)
Median: 1.054
L1 norm: 0.229
Difference in spectral phase
Phase (BK.SCOT.01.HNE- BK.SCOT.01.HHE)
Median: 0.028
L1 norm: 0.238

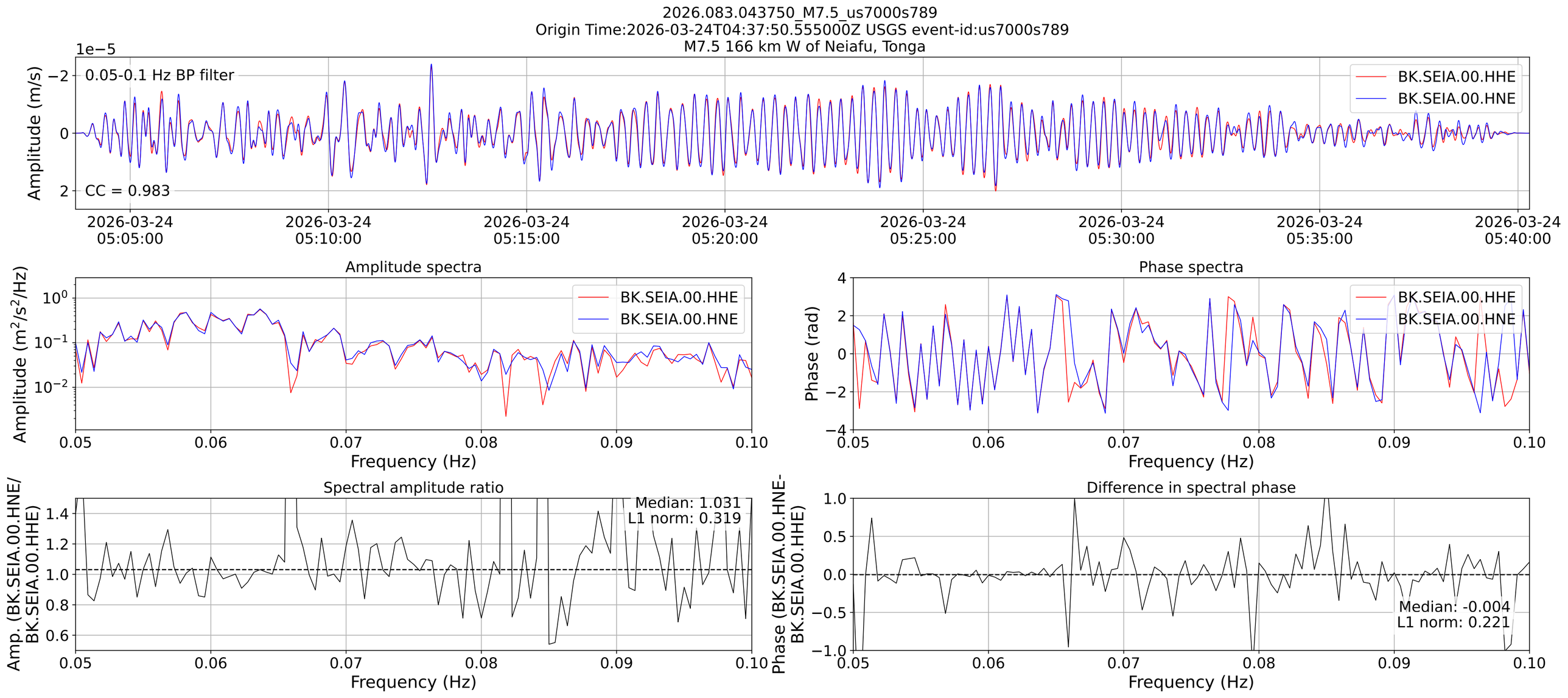

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.962
Amplitude (m/s)
BK.SCOT.01.HHN
BK.SCOT.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNN/ BK.SCOT.01.HHN)
Median: 0.972
L1 norm: 0.219
Difference in spectral phase
Phase (BK.SCOT.01.HNN- BK.SCOT.01.HHN)
Median: 0.010
L1 norm: 0.247

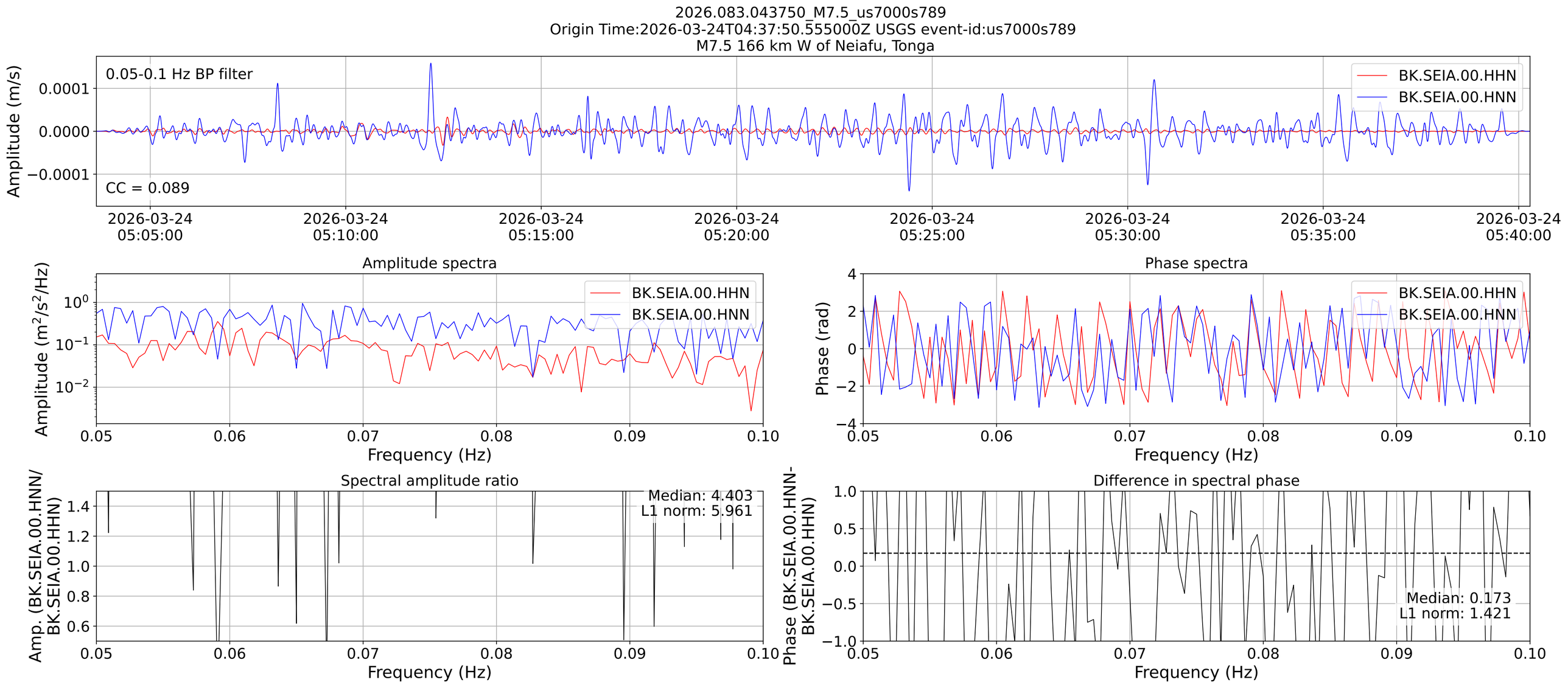

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.974
Amplitude (m/s)
BK.SCOT.01.HHZ
BK.SCOT.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCOT.01.HNZ/ BK.SCOT.01.HHZ)
Median: 1.012
L1 norm: 0.266
Difference in spectral phase
Phase (BK.SCOT.01.HNZ- BK.SCOT.01.HHZ)
Median: -0.051
L1 norm: 0.372

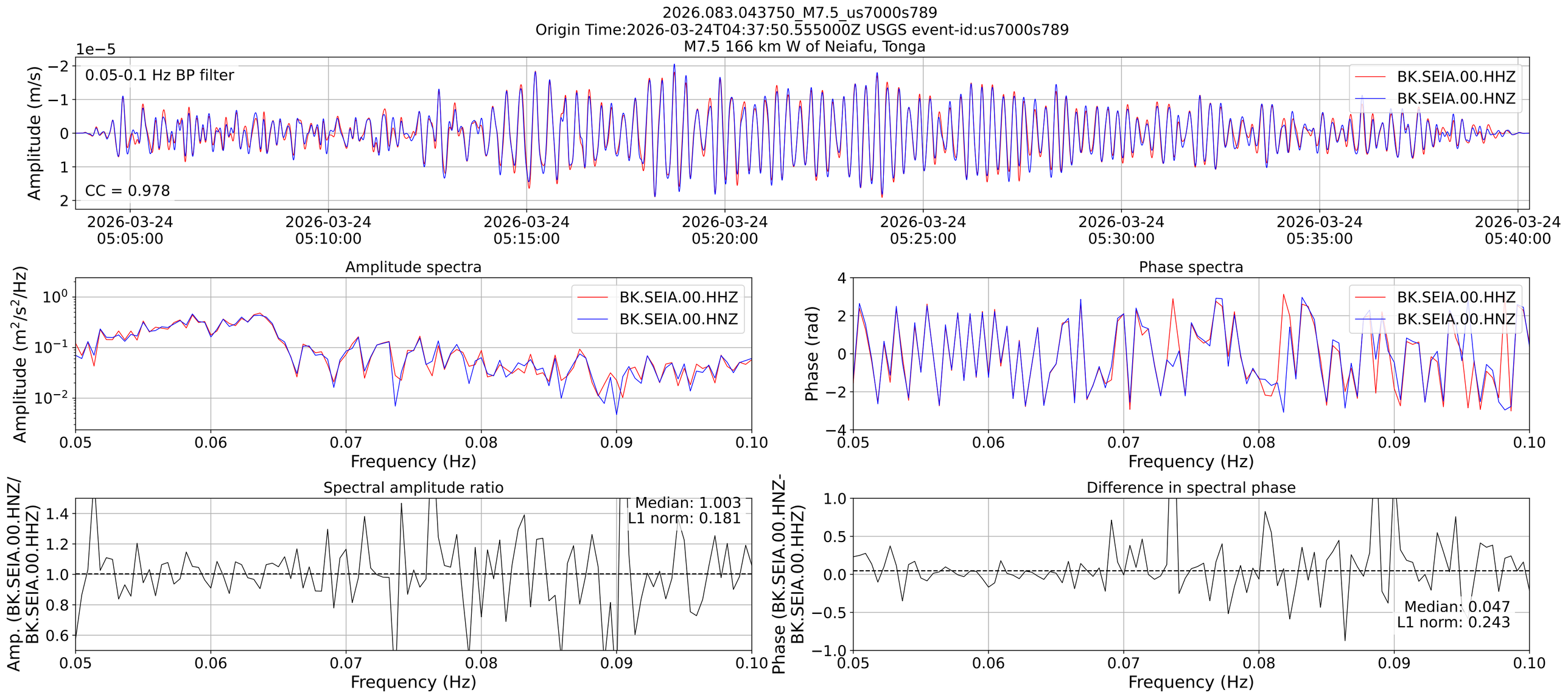

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.858
Amplitude (m/s)
BK.SCZ.00.HHE
BK.SCZ.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNE/ BK.SCZ.00.HHE)
Median: 3.136
L1 norm: 0.467
Difference in spectral phase
Phase (BK.SCZ.00.HNE- BK.SCZ.00.HHE)
Median: -0.574
L1 norm: 0.136

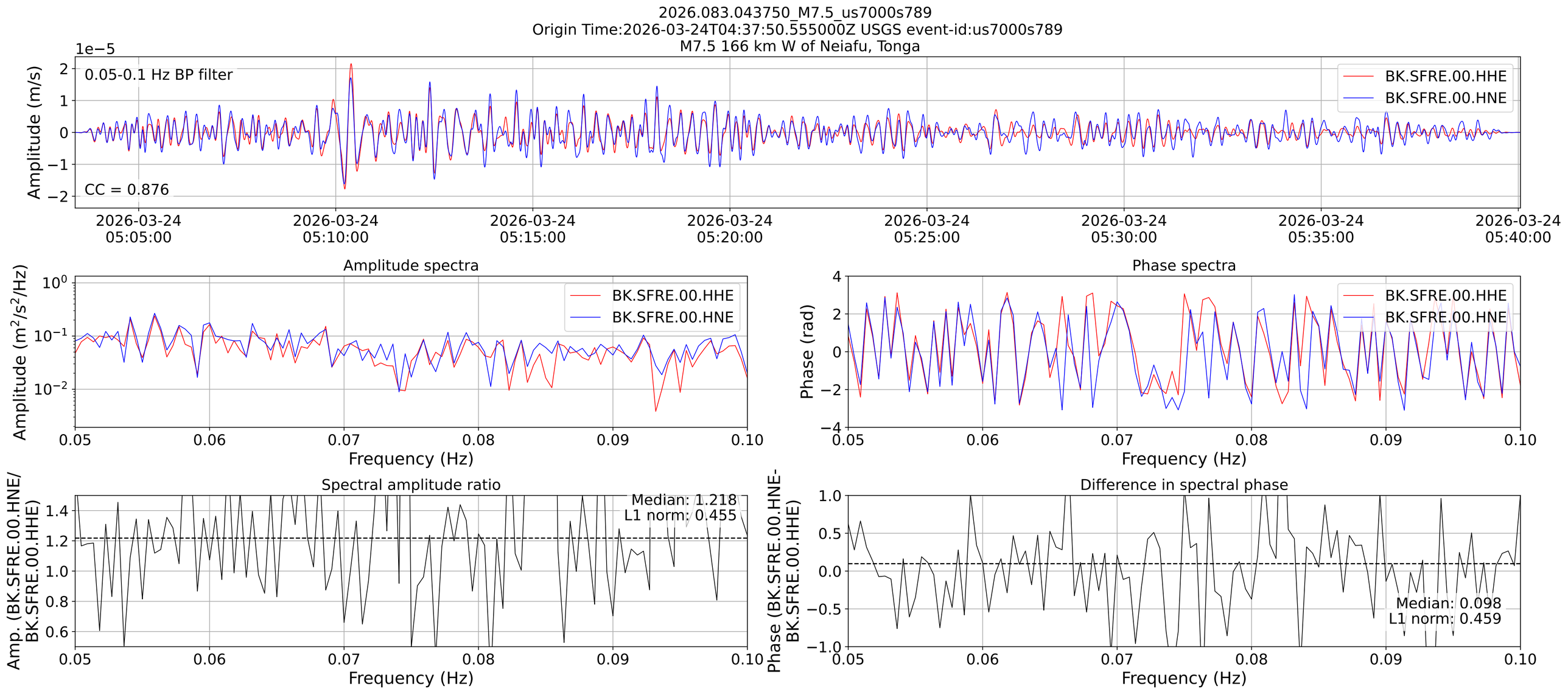

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.SCZ.00.HHN
BK.SCZ.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNN/ BK.SCZ.00.HHN)
Median: 1.097
L1 norm: 0.112
Difference in spectral phase
Phase (BK.SCZ.00.HNN- BK.SCZ.00.HHN)
Median: -0.157
L1 norm: 0.114

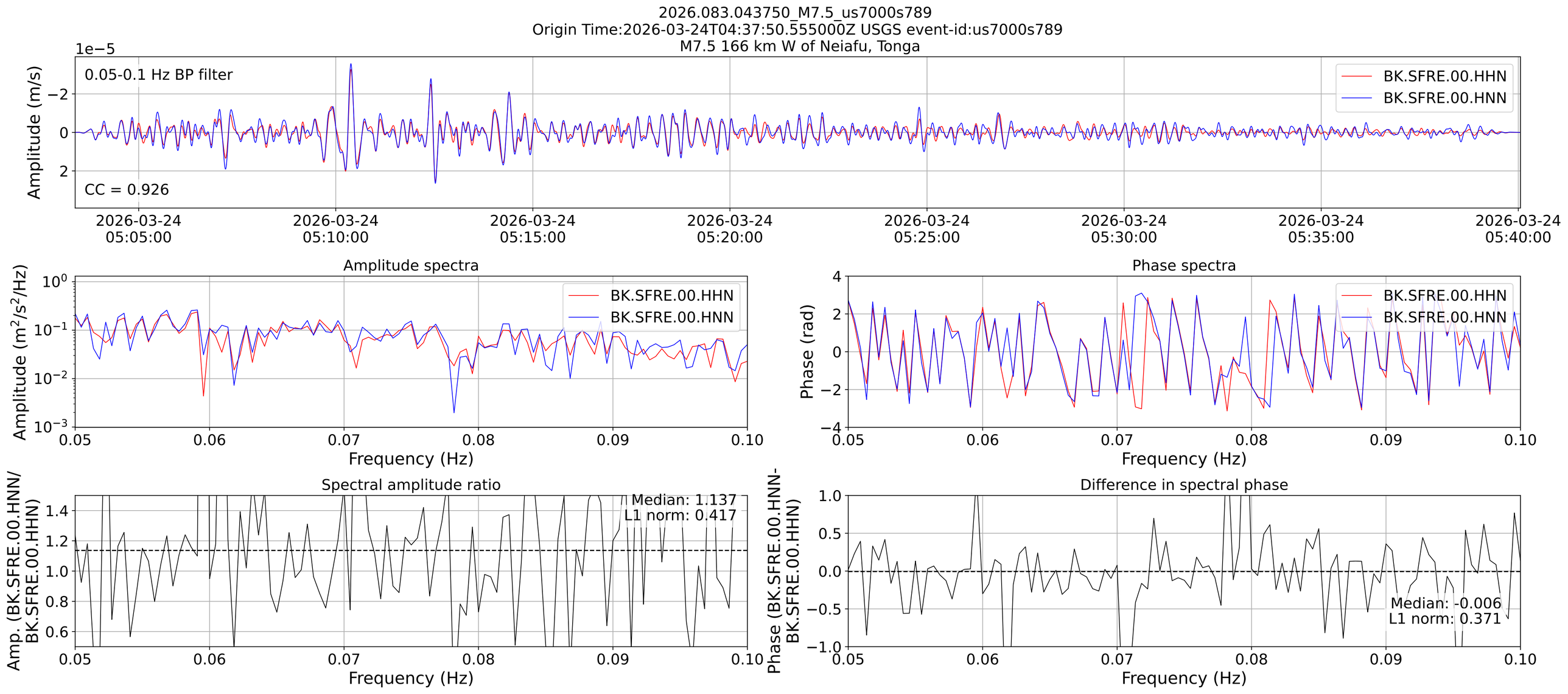

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
BK.SCZ.00.HHZ
BK.SCZ.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SCZ.00.HNZ/ BK.SCZ.00.HHZ)
Median: 1.088
L1 norm: 0.183
Difference in spectral phase
Phase (BK.SCZ.00.HNZ- BK.SCZ.00.HHZ)
Median: -0.035
L1 norm: 0.186

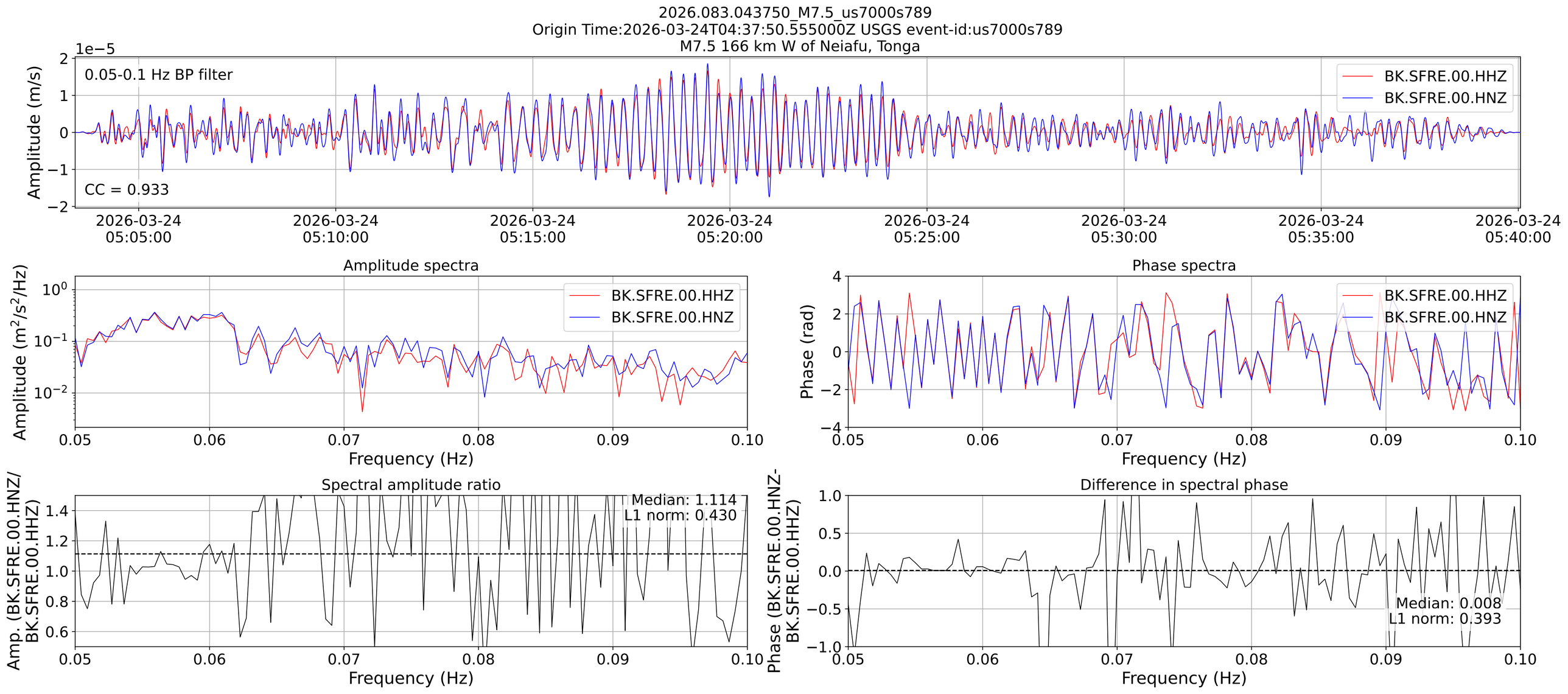

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.SEIA.00.HHE
BK.SEIA.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HNE/ BK.SEIA.00.HHE)
Median: 1.031
L1 norm: 0.319
Difference in spectral phase
Phase (BK.SEIA.00.HNE- BK.SEIA.00.HHE)
Median: -0.004
L1 norm: 0.221

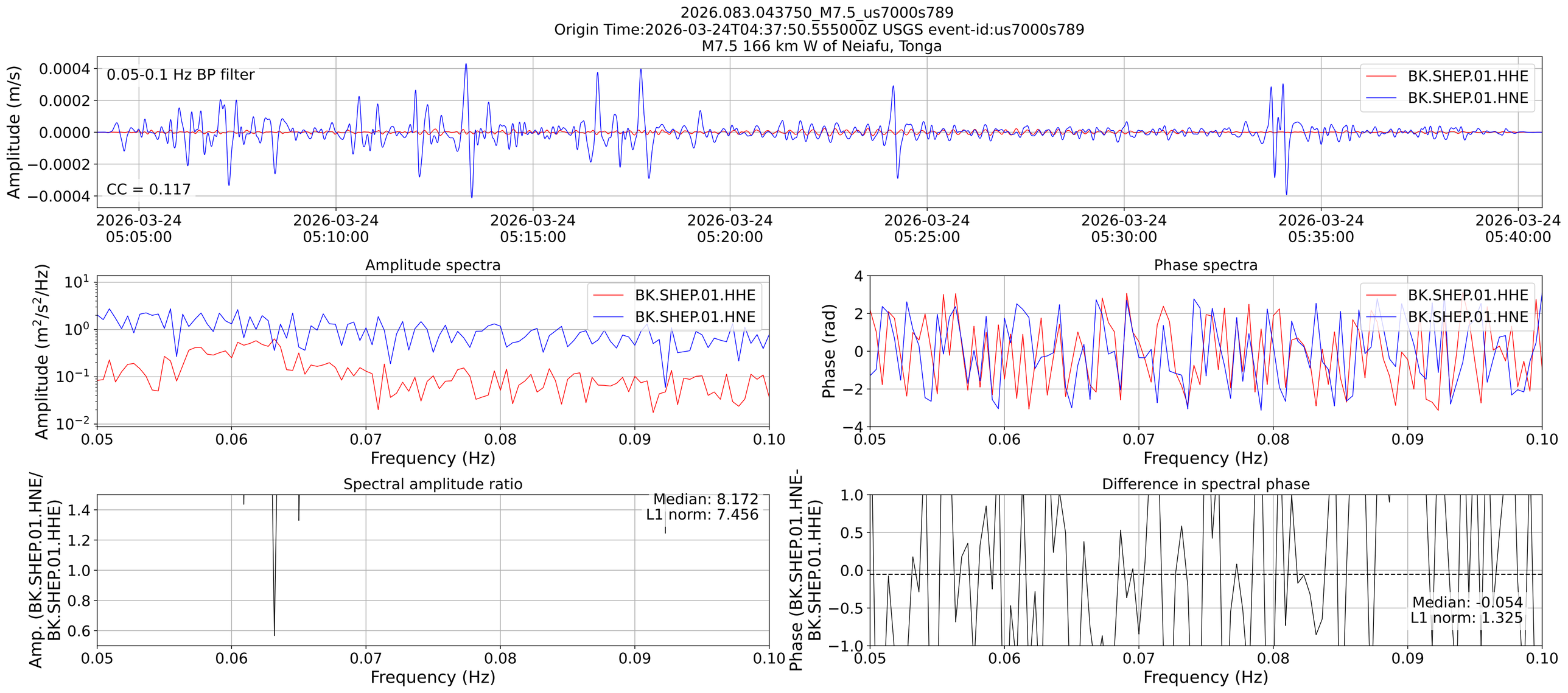

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.089
BK.SEIA.00.HHN
BK.SEIA.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HNN/ BK.SEIA.00.HHN)
Median: 4.403
L1 norm: 5.961
Difference in spectral phase
Phase (BK.SEIA.00.HNN- BK.SEIA.00.HHN)
Median: 0.173
L1 norm: 1.421

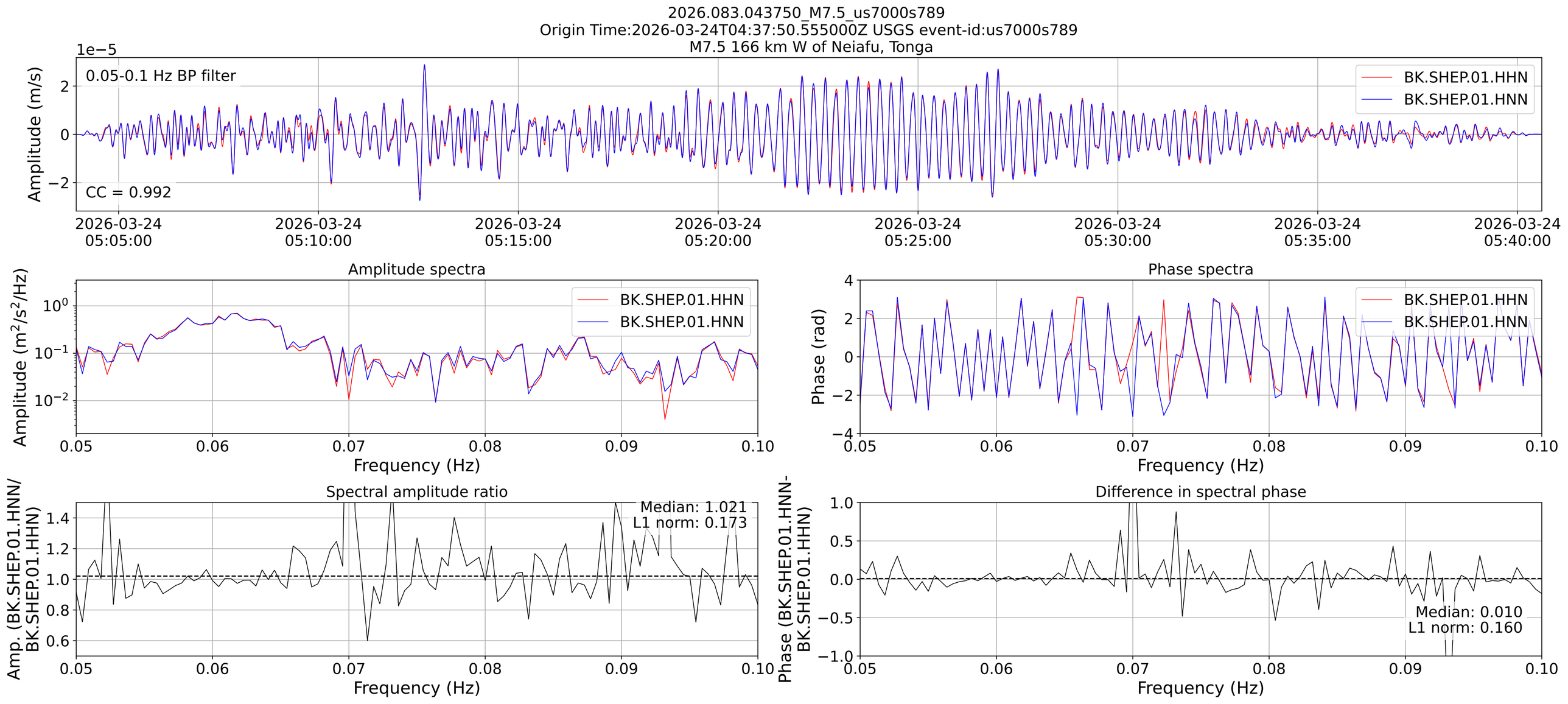

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
Amplitude (m/s)
BK.SEIA.00.HHZ
BK.SEIA.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SEIA.00.HNZ/ BK.SEIA.00.HHZ)
Median: 1.003
L1 norm: 0.181
Difference in spectral phase
Phase (BK.SEIA.00.HNZ- BK.SEIA.00.HHZ)
Median: 0.047
L1 norm: 0.243

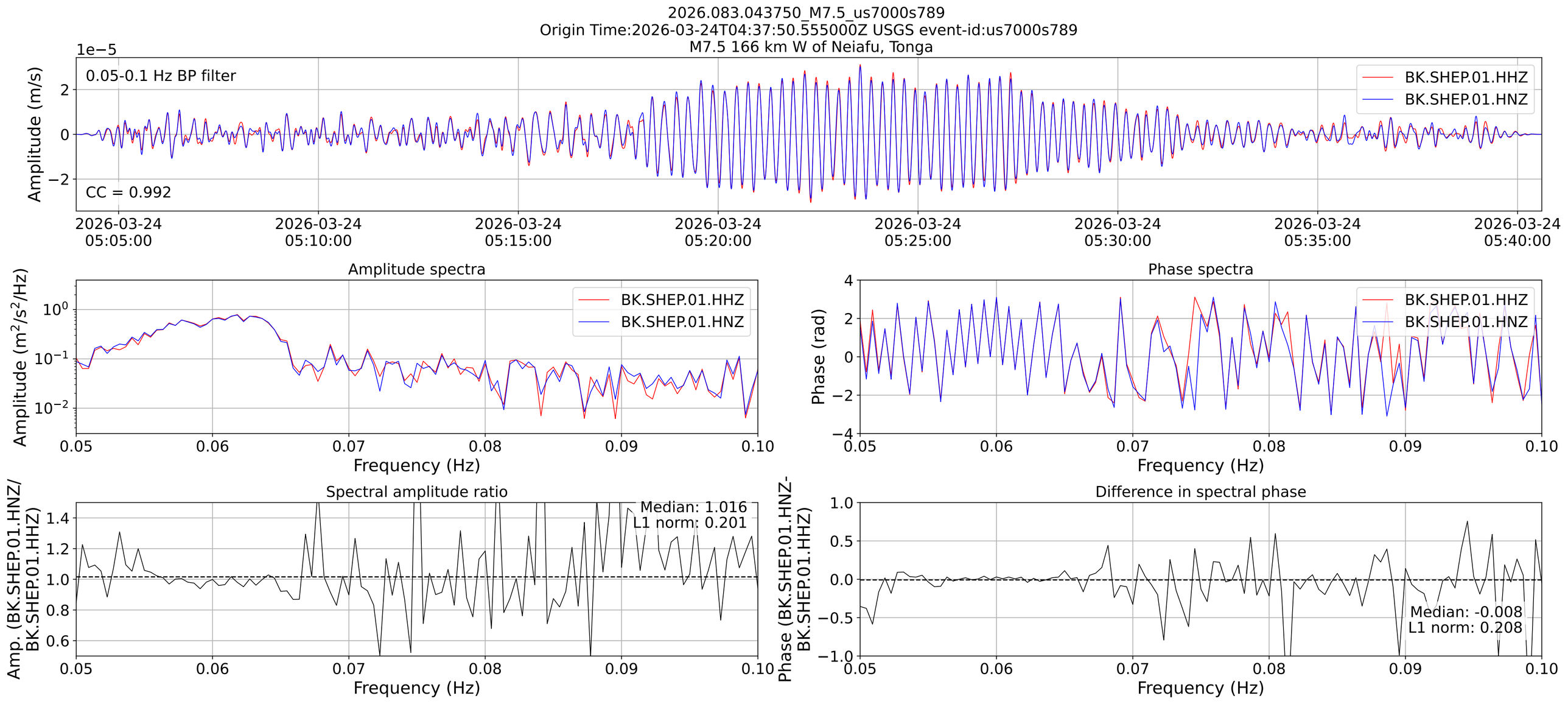

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.876
Amplitude (m/s)
BK.SFRE.00.HHE
BK.SFRE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNE/ BK.SFRE.00.HHE)
Median: 1.218
L1 norm: 0.455
Difference in spectral phase
Phase (BK.SFRE.00.HNE- BK.SFRE.00.HHE)
Median: 0.098
L1 norm: 0.459

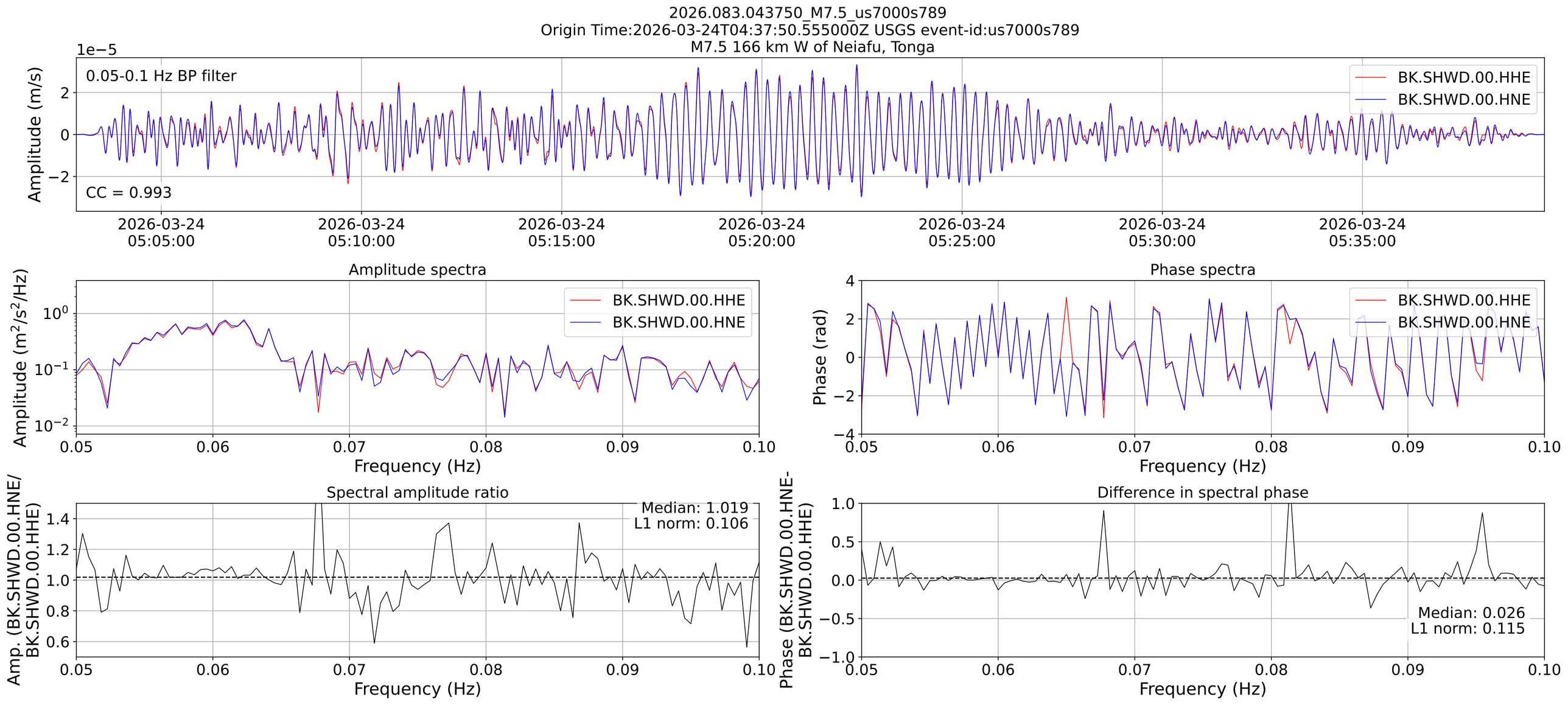

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.926
Amplitude (m/s)
BK.SFRE.00.HHN
BK.SFRE.00.HHN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNN/ BK.SFRE.00.HHN)
Median: 1.137
L1 norm: 0.417
Frequency (Hz)
Difference in spectral phase
Phase (BK.SFRE.00.HNN-BK.SFRE.00.HHN)
Median: -0.006
L1 norm: 0.371
Frequency (Hz)

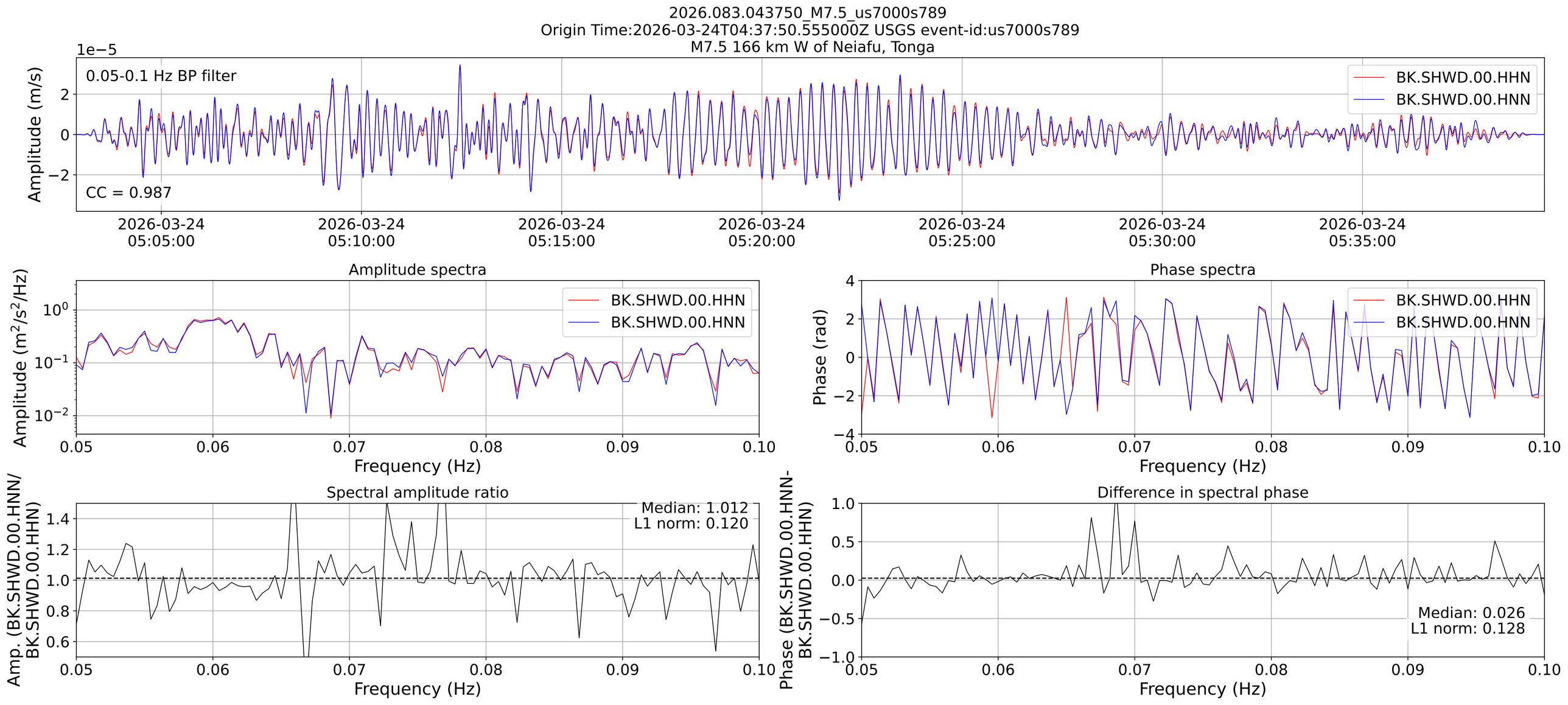

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.933
BK.SFRE.00.HHZ
BK.SFRE.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SFRE.00.HNZ/ BK.SFRE.00.HHZ)
Median: 1.114
L1 norm: 0.430
Difference in spectral phase
Phase (BK.SFRE.00.HNZ-BK.SFRE.00.HHZ)
Median: 0.008
L1 norm: 0.393

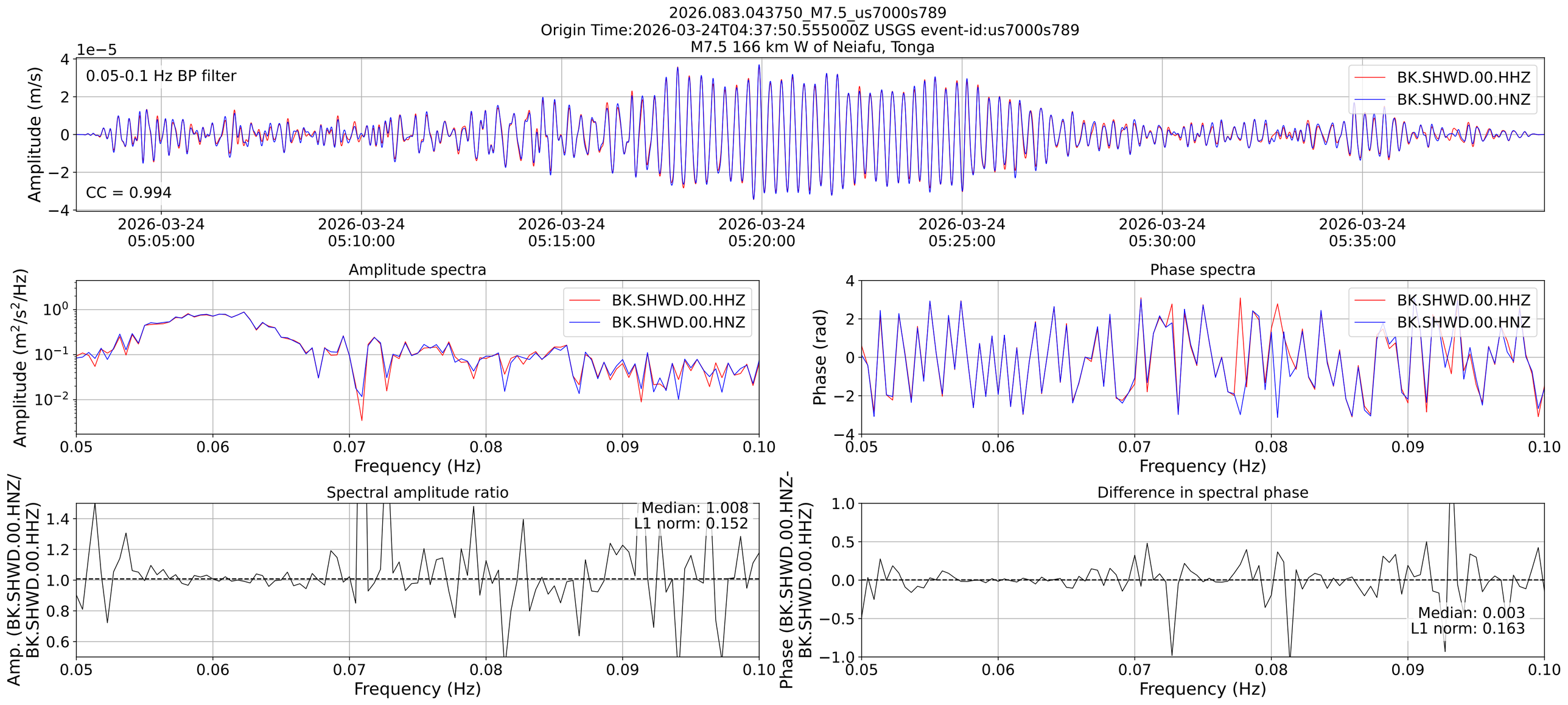

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.117
BK.SHEP.01.HHE
BK.SHEP.01.HNE
Amplitude (m/s)
0.0004
0.0002
0.0000
−0.0002
−0.0004
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNE/ BK.SHEP.01.HHE)
Median: 8.172
L1 norm: 7.456
Difference in spectral phase
Phase (BK.SHEP.01.HNE- BK.SHEP.01.HHE)
Median: -0.054
L1 norm: 1.325

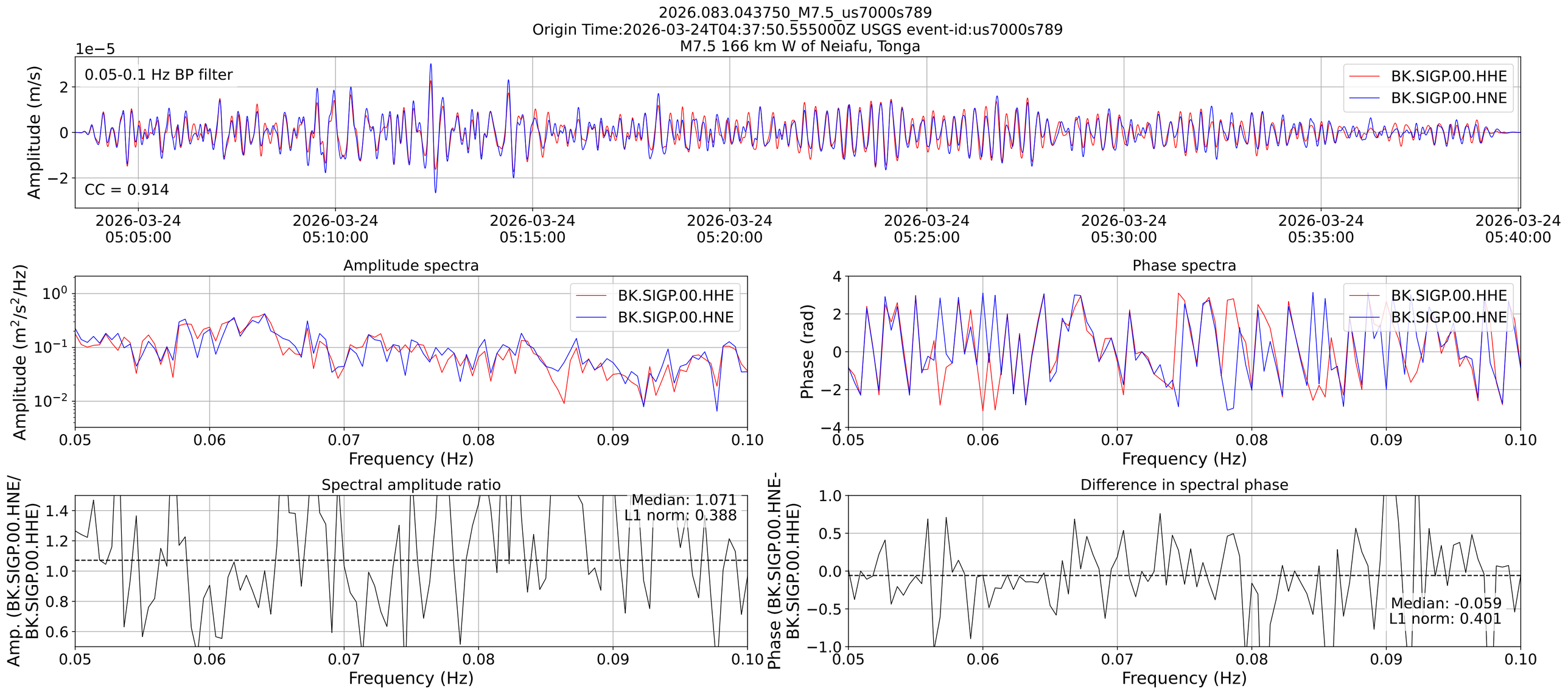

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.SHEP.01.HHN
BK.SHEP.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNN/ BK.SHEP.01.HHN)
Median: 1.021
L1 norm: 0.173
Difference in spectral phase
Phase (BK.SHEP.01.HNN- BK.SHEP.01.HHN)
Median: 0.010
L1 norm: 0.160

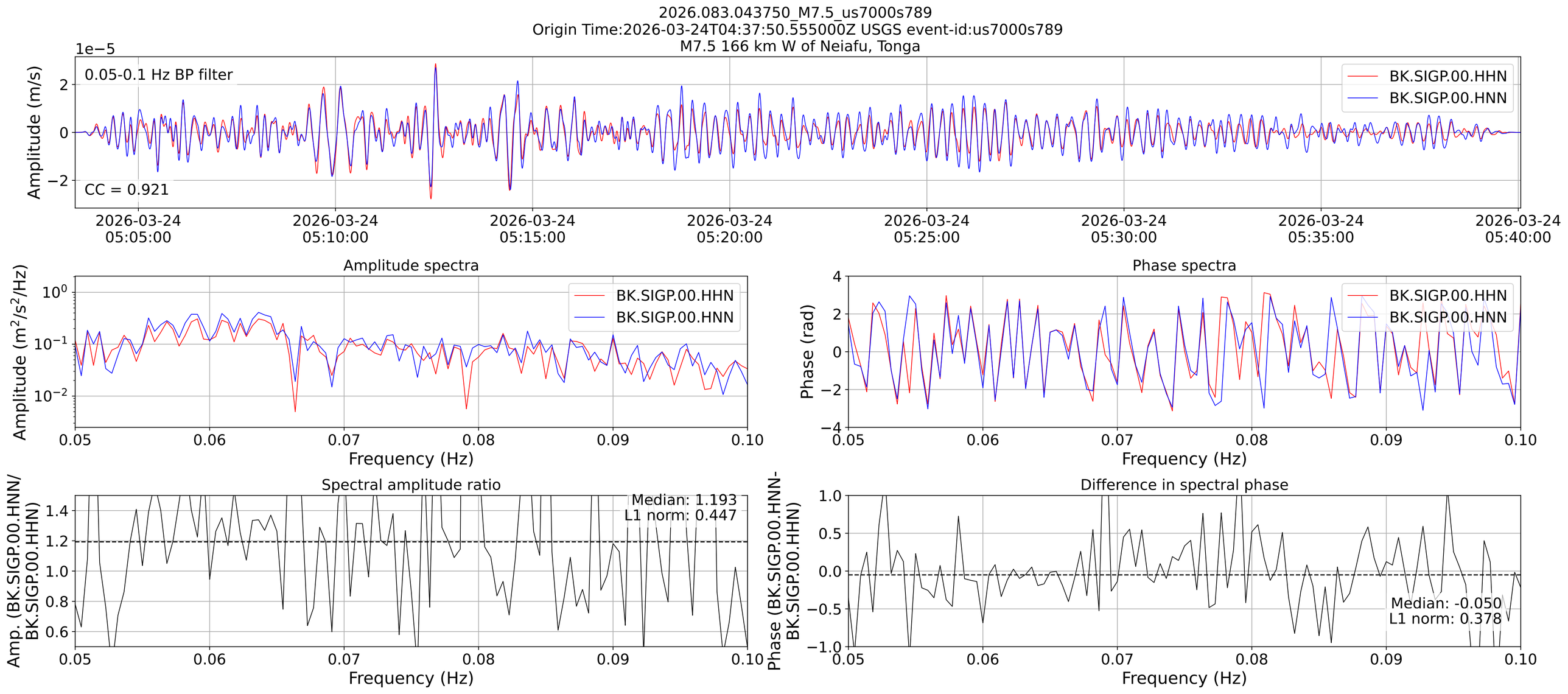

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.SHEP.01.HHZ
BK.SHEP.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHEP.01.HNZ/ BK.SHEP.01.HHZ)
Median: 1.016
L1 norm: 0.201
Difference in spectral phase
Phase (BK.SHEP.01.HNZ- BK.SHEP.01.HHZ)
Median: -0.008
L1 norm: 0.208

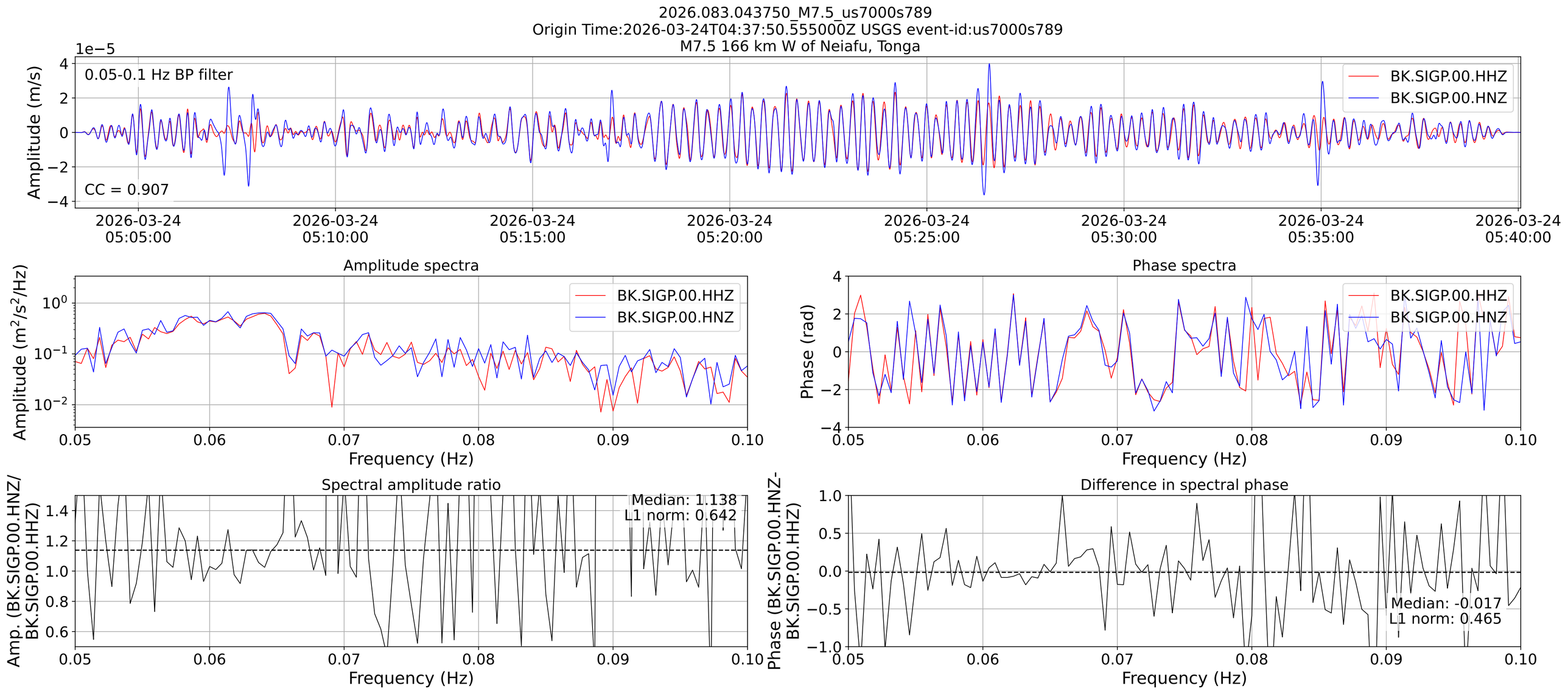

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.SHWD.00.HHE
BK.SHWD.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNE/ BK.SHWD.00.HHE)
Median: 1.019
L1 norm: 0.106
Difference in spectral phase
Phase (BK.SHWD.00.HNE- BK.SHWD.00.HHE)
Median: 0.026
L1 norm: 0.115

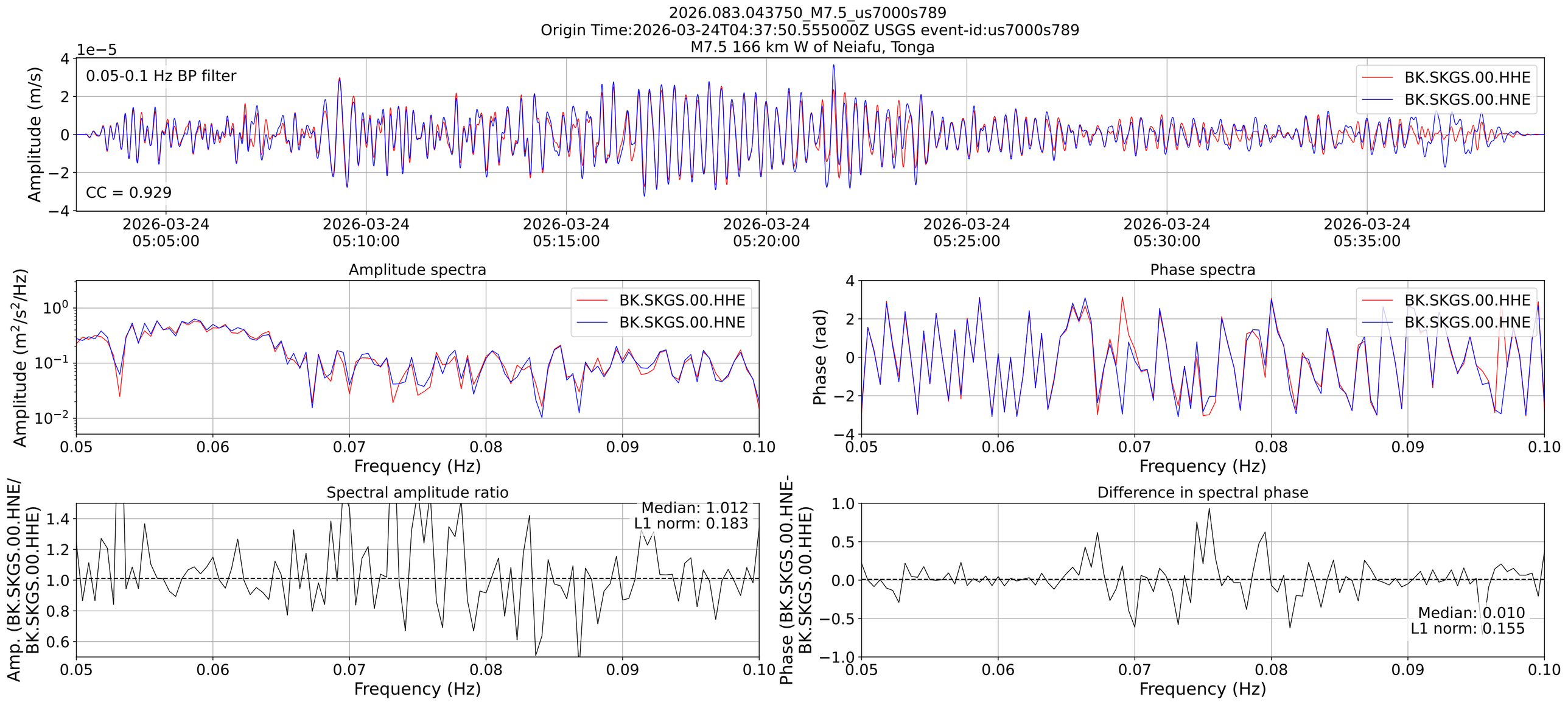

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.SHWD.00.HHN
BK.SHWD.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNN/ BK.SHWD.00.HHN)
Median: 1.012
L1 norm: 0.120
Difference in spectral phase
Phase (BK.SHWD.00.HNN- BK.SHWD.00.HHN)
Median: 0.026
L1 norm: 0.128

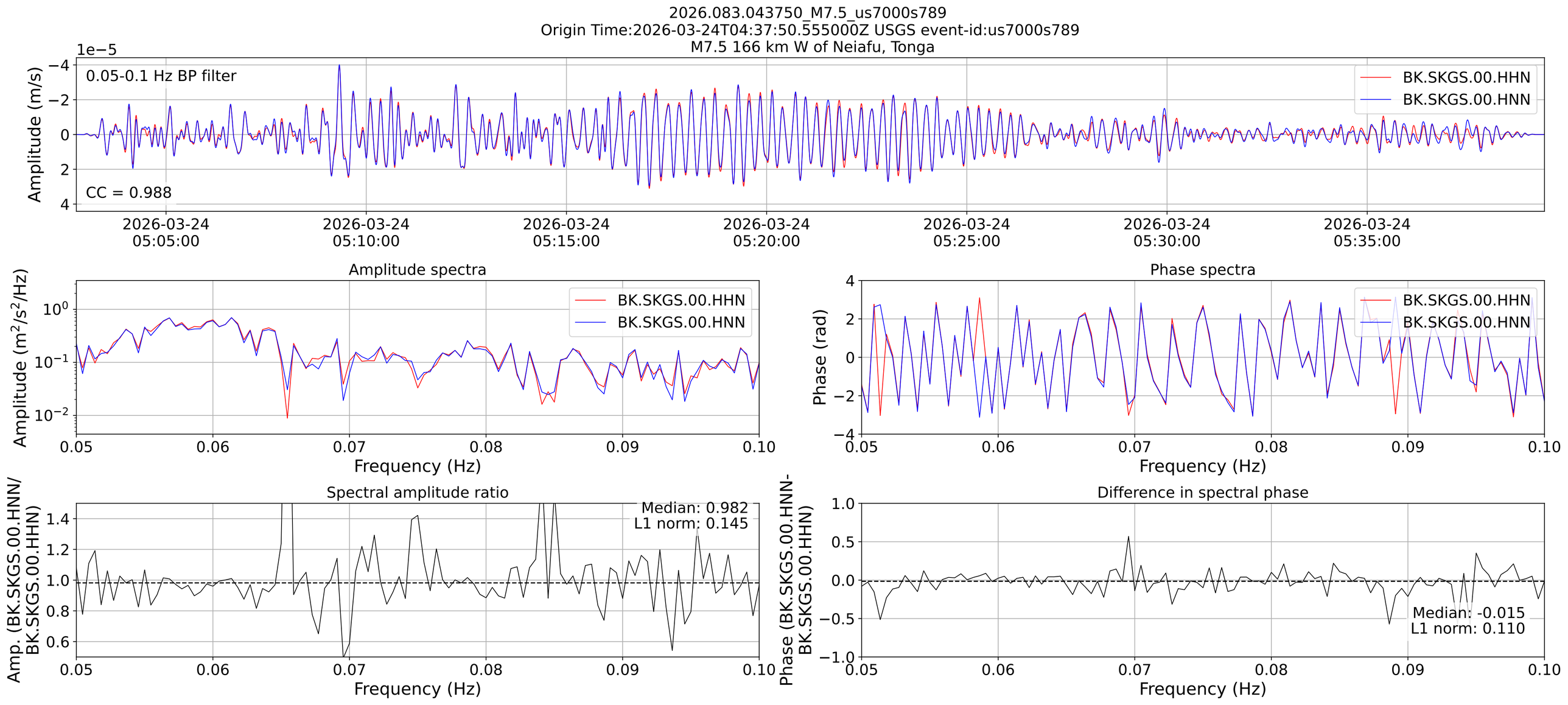

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.SHWD.00.HHZ
BK.SHWD.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SHWD.00.HNZ/ BK.SHWD.00.HHZ)
Median: 1.008
L1 norm: 0.152
Difference in spectral phase
Phase (BK.SHWD.00.HNZ- BK.SHWD.00.HHZ)
Median: 0.003
L1 norm: 0.163

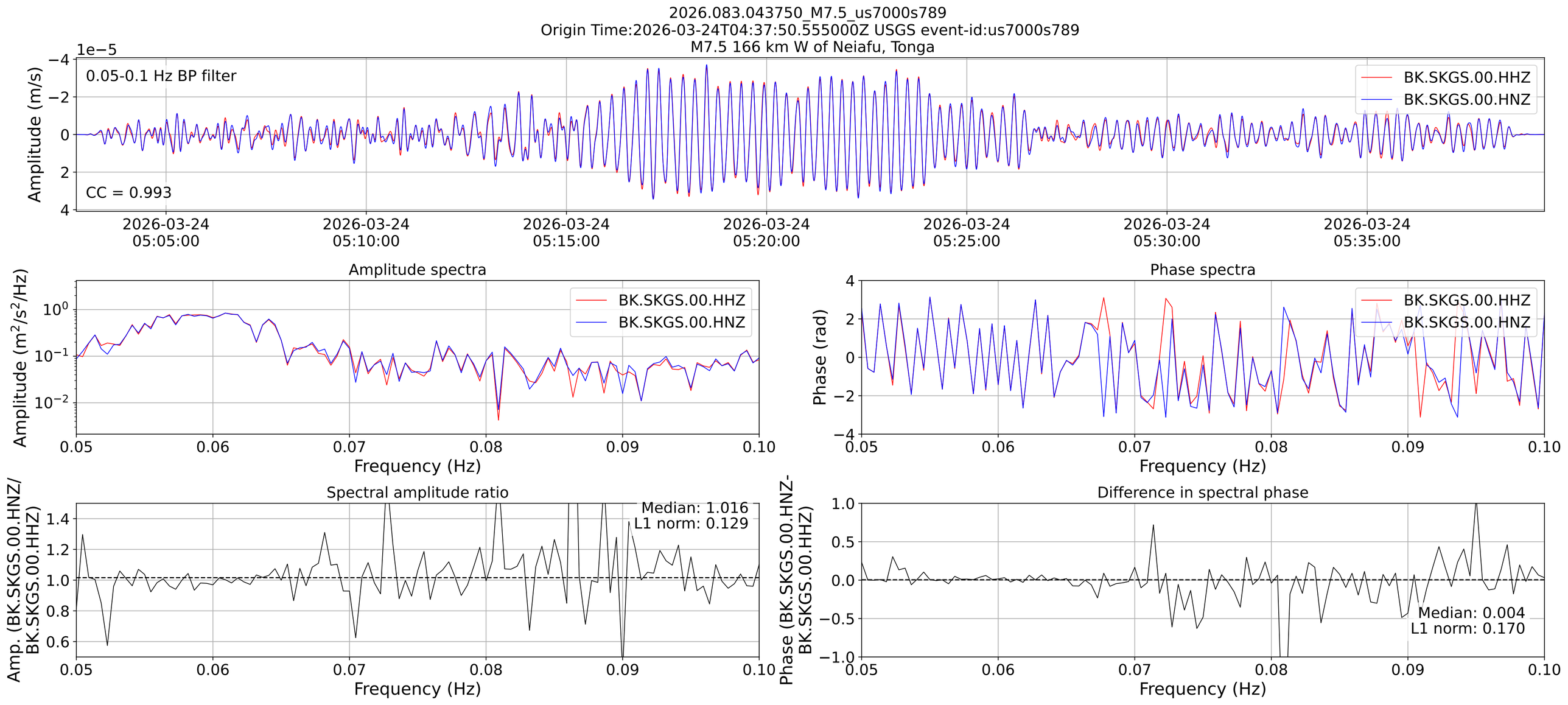

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.914
Amplitude (m/s)
BK.SIGP.00.HHE
BK.SIGP.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SIGP.00.HNE/ BK.SIGP.00.HHE)
Median: 1.071
L1 norm: 0.388
Difference in spectral phase
Phase (BK.SIGP.00.HNE- BK.SIGP.00.HHE)
Median: -0.059
L1 norm: 0.401

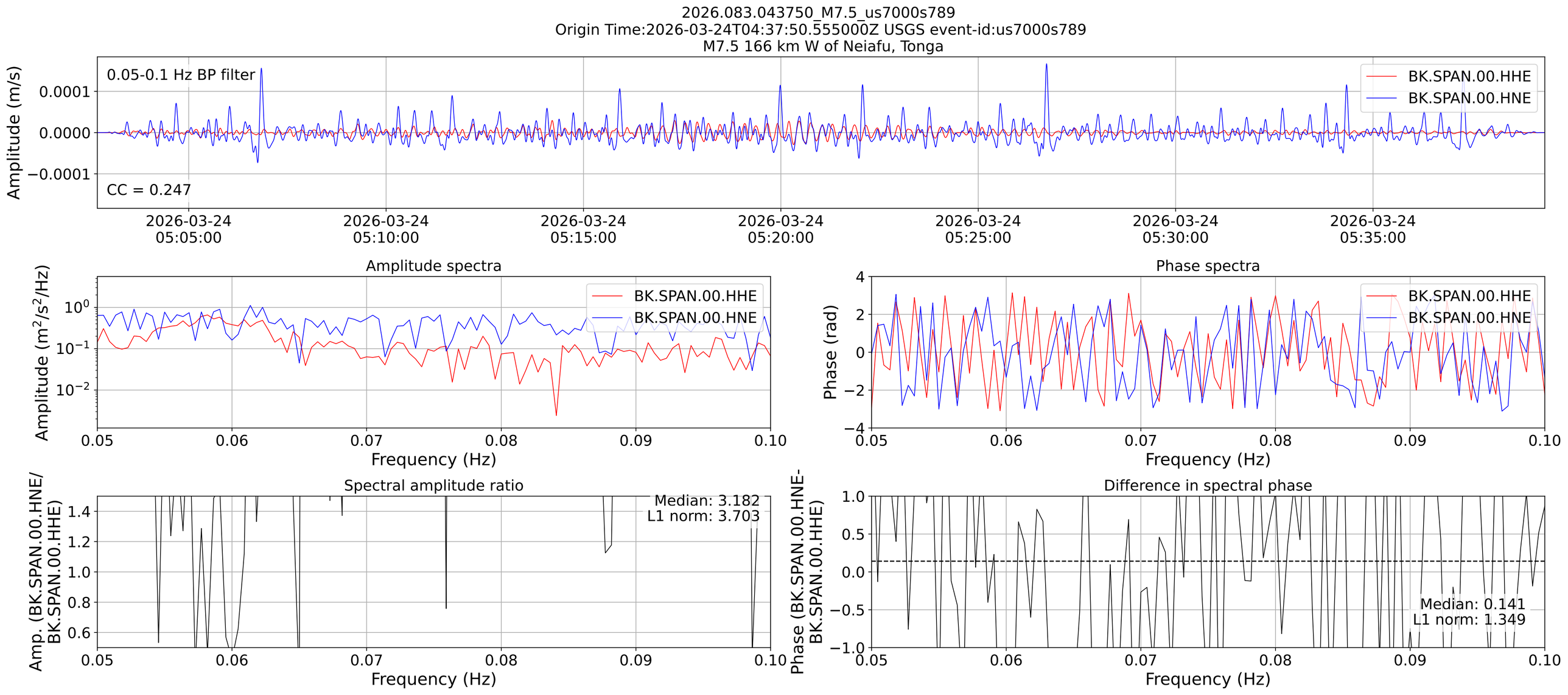

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.921
Amplitude (m/s)
BK.SIGP.00.HHN
BK.SIGP.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SIGP.00.HNN/ BK.SIGP.00.HHN)
Median: 1.193
L1 norm: 0.447
Difference in spectral phase
Phase (BK.SIGP.00.HNN-BK.SIGP.00.HHN)
Median: -0.050
L1 norm: 0.378

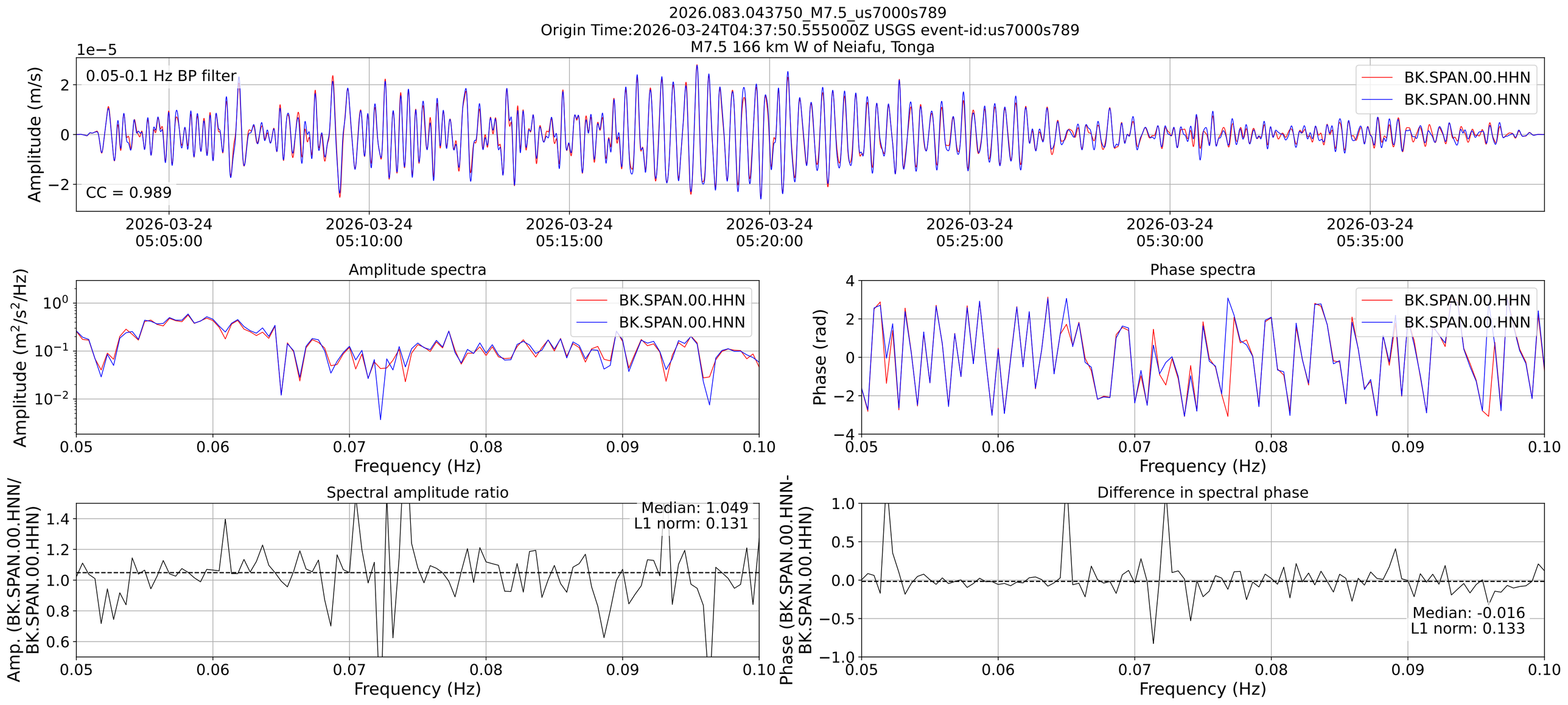

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.907
BK.SIGP.00.HHZ
BK.SIGP.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SIGP.00.HNZ/ BK.SIGP.00.HHZ)
Median: 1.138
L1 norm: 0.642
Difference in spectral phase
Phase (BK.SIGP.00.HNZ- BK.SIGP.00.HHZ)
Median: -0.017
L1 norm: 0.465

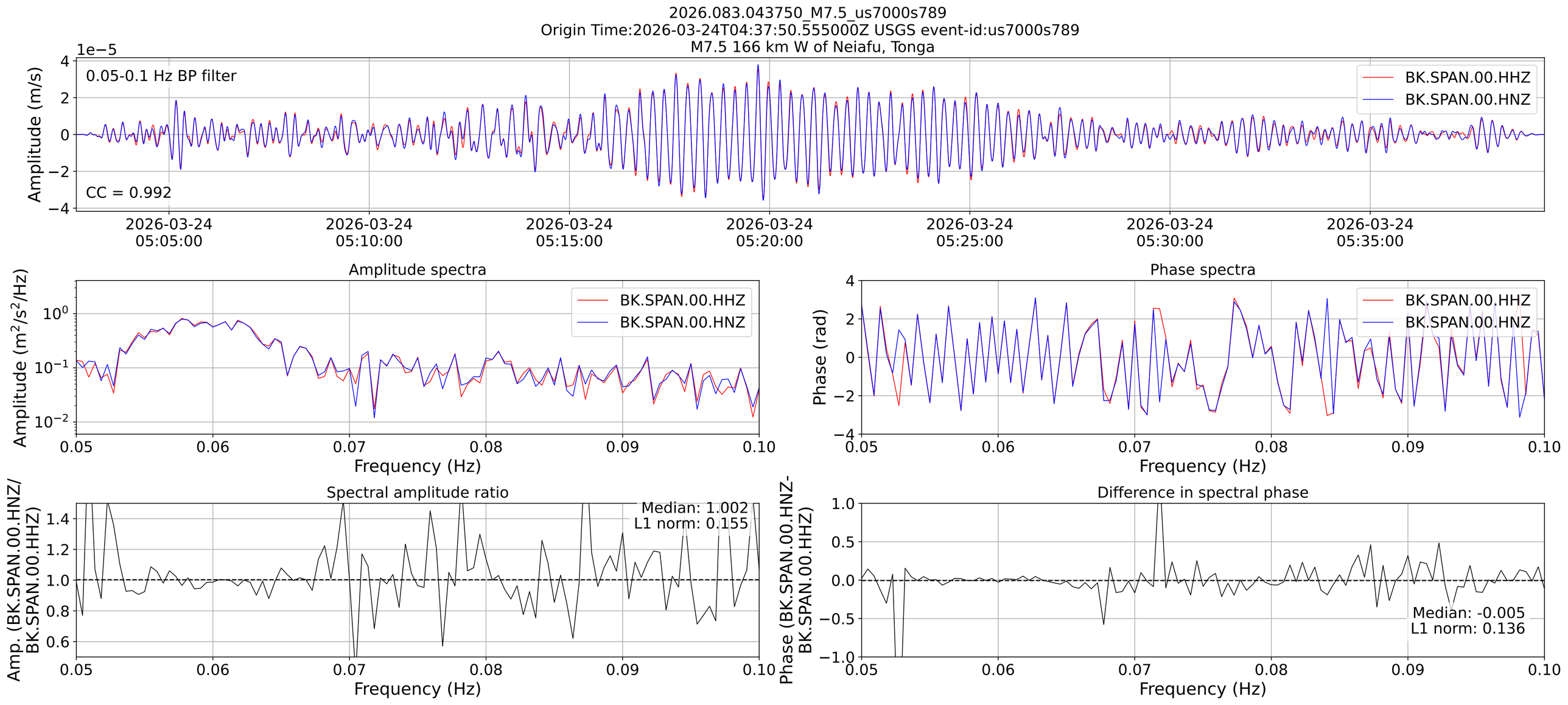

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.929
BK.SKGS.00.HHE
BK.SKGS.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNE/ BK.SKGS.00.HHE)
Median: 1.012
L1 norm: 0.183
Difference in spectral phase
Phase (BK.SKGS.00.HNE- BK.SKGS.00.HHE)
Median: 0.010
L1 norm: 0.155

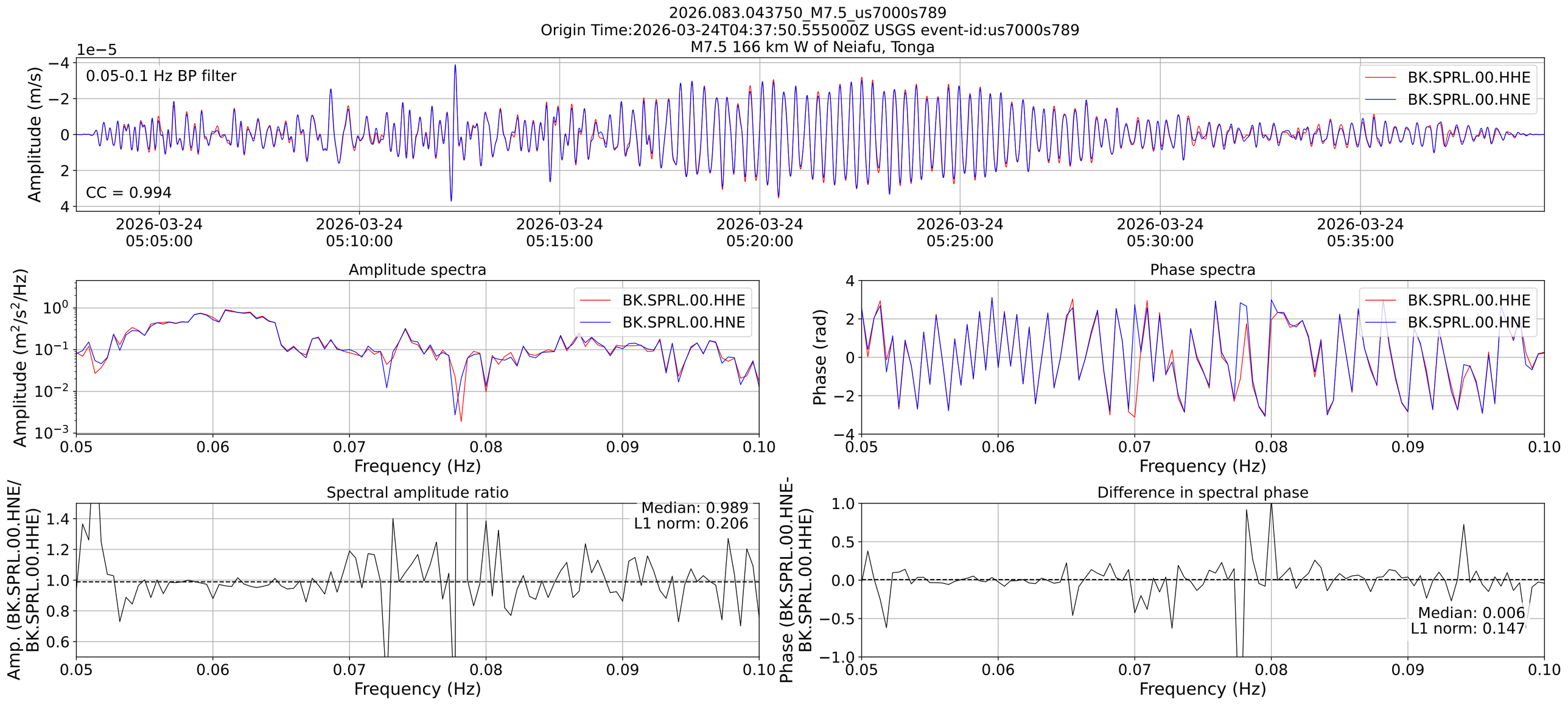

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.988
BK.SKGS.00.HHN
BK.SKGS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNN/ BK.SKGS.00.HHN)
Median: 0.982
L1 norm: 0.145
Difference in spectral phase
Phase (BK.SKGS.00.HNN- BK.SKGS.00.HHN)
Median: -0.015
L1 norm: 0.110

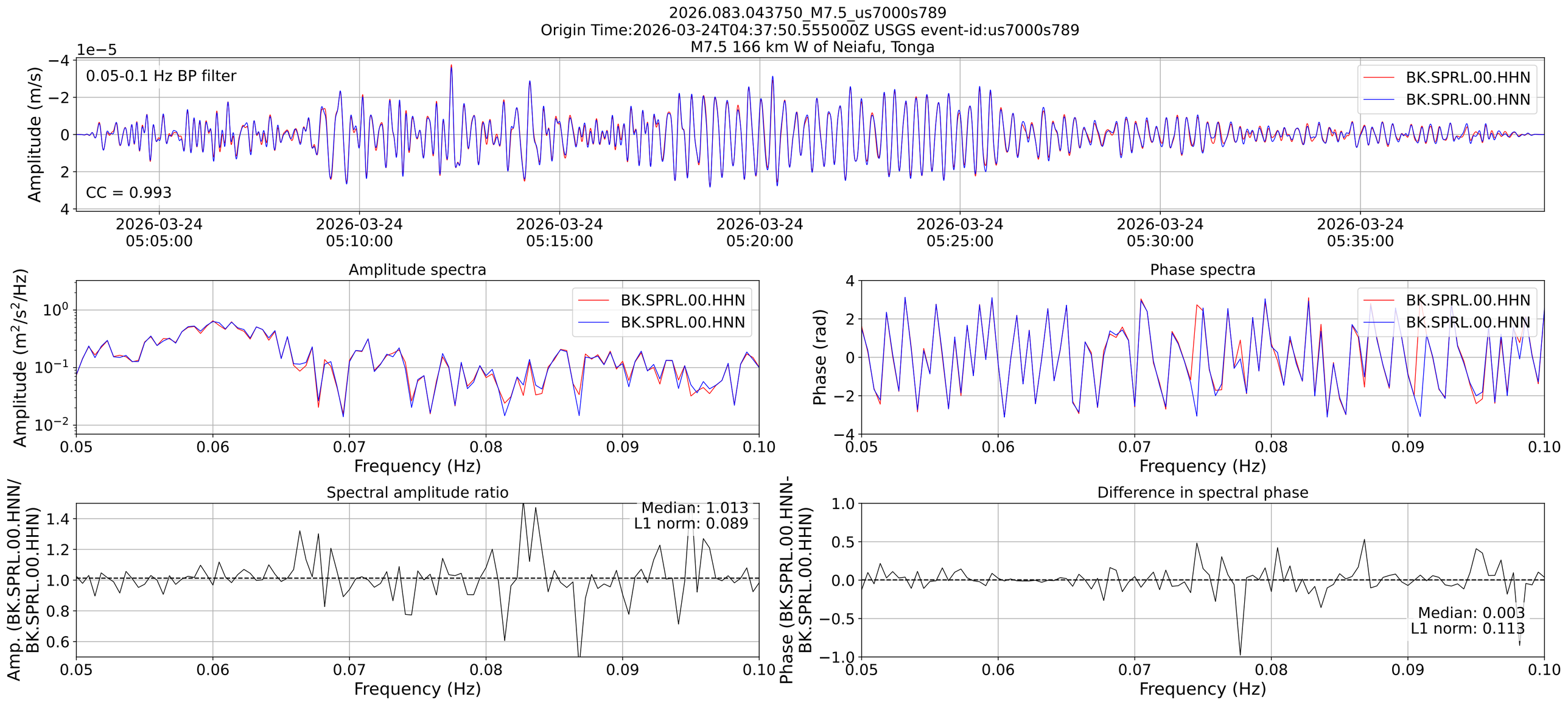

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
BK.SKGS.00.HHZ
BK.SKGS.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SKGS.00.HNZ/ BK.SKGS.00.HHZ)
Median: 1.016
L1 norm: 0.129
Difference in spectral phase
Phase (BK.SKGS.00.HNZ- BK.SKGS.00.HHZ)
Median: 0.004
L1 norm: 0.170

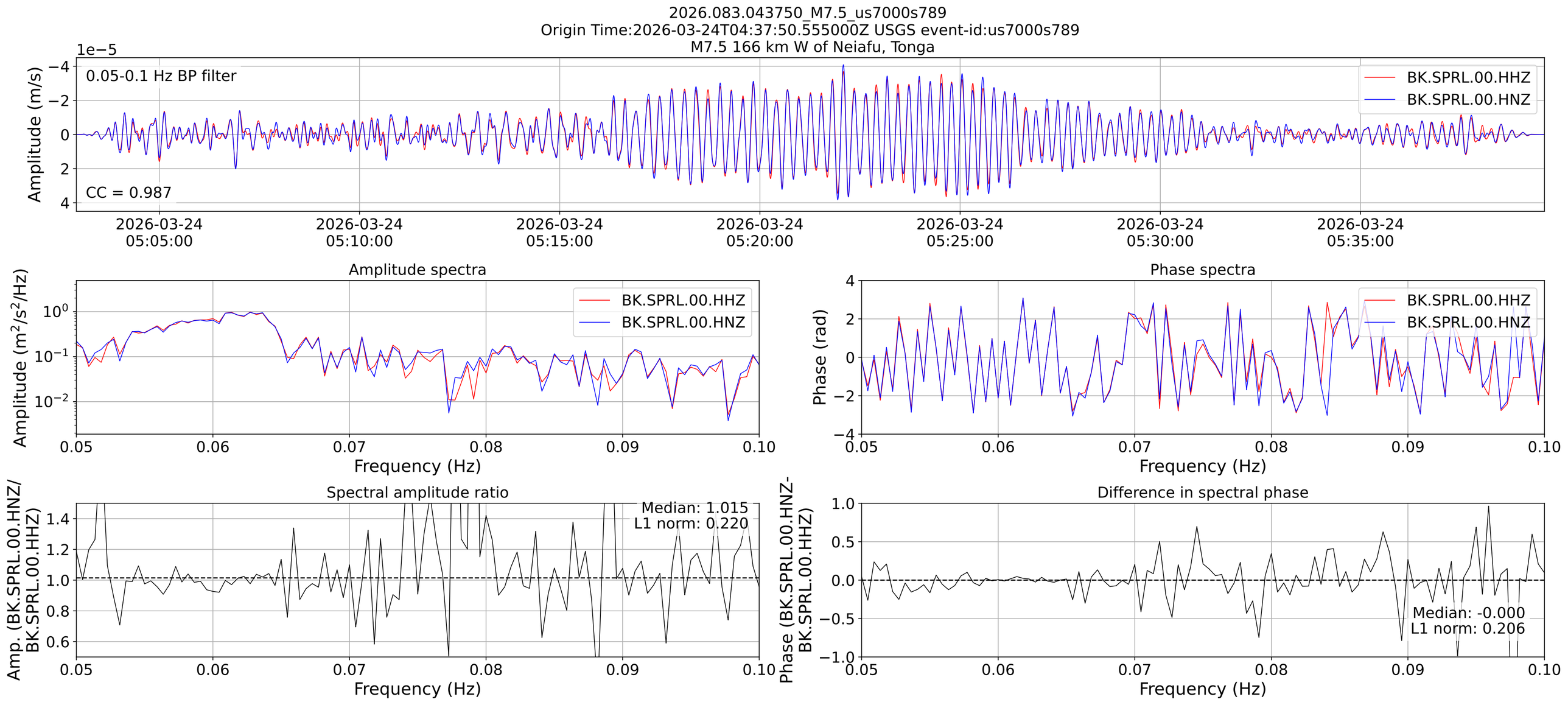

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.247
BK.SPAN.00.HHE
BK.SPAN.00.HNE
Amplitude (m/s)
0.0001
0.0000
−0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNE/ BK.SPAN.00.HHE)
Median: 3.182
L1 norm: 3.703
Difference in spectral phase
Phase (BK.SPAN.00.HNE- BK.SPAN.00.HHE)
Median: 0.141
L1 norm: 1.349

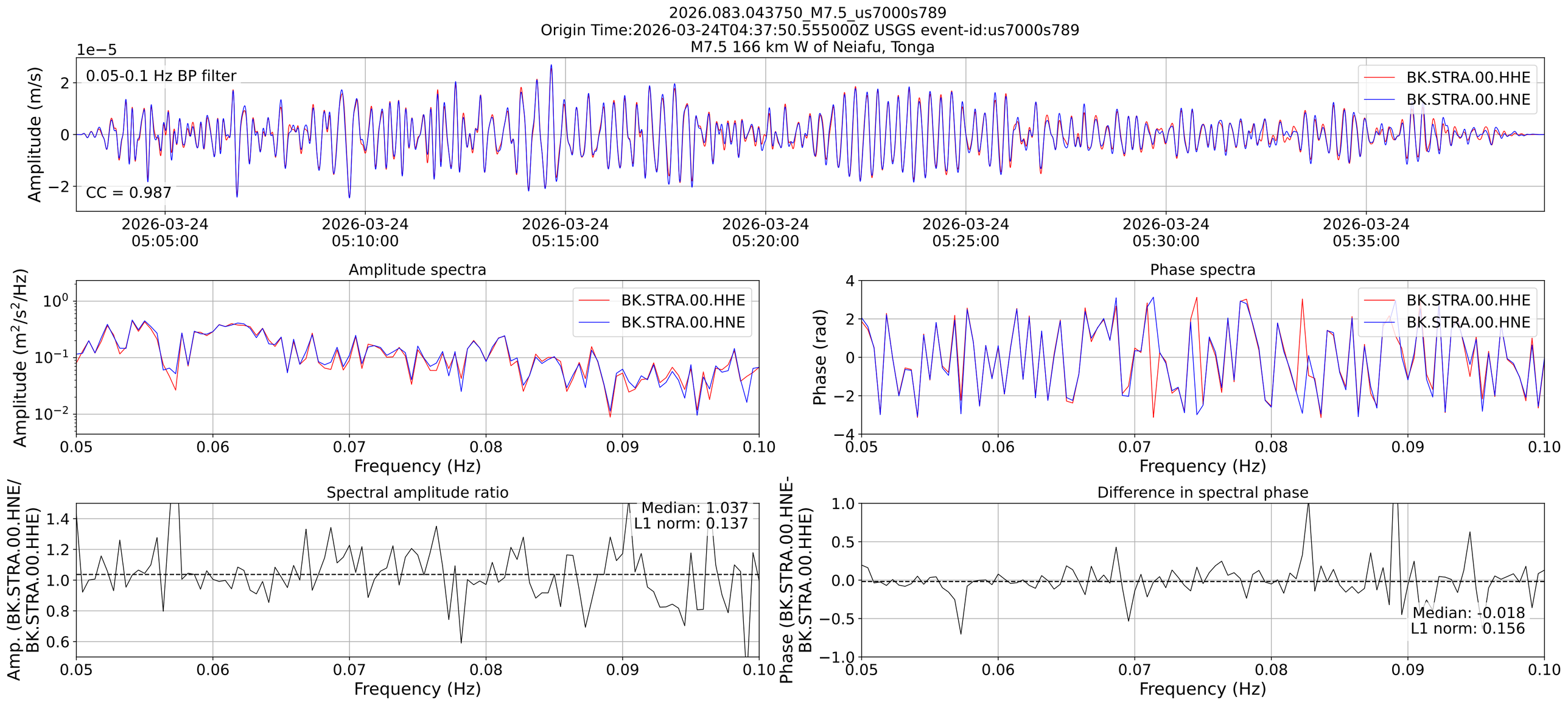

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
Amplitude (m/s)
BK.SPAN.00.HHN
BK.SPAN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNN/ BK.SPAN.00.HHN)
Median: 1.049
L1 norm: 0.131
Difference in spectral phase
Phase (BK.SPAN.00.HNN- BK.SPAN.00.HHN)
Median: -0.016
L1 norm: 0.133

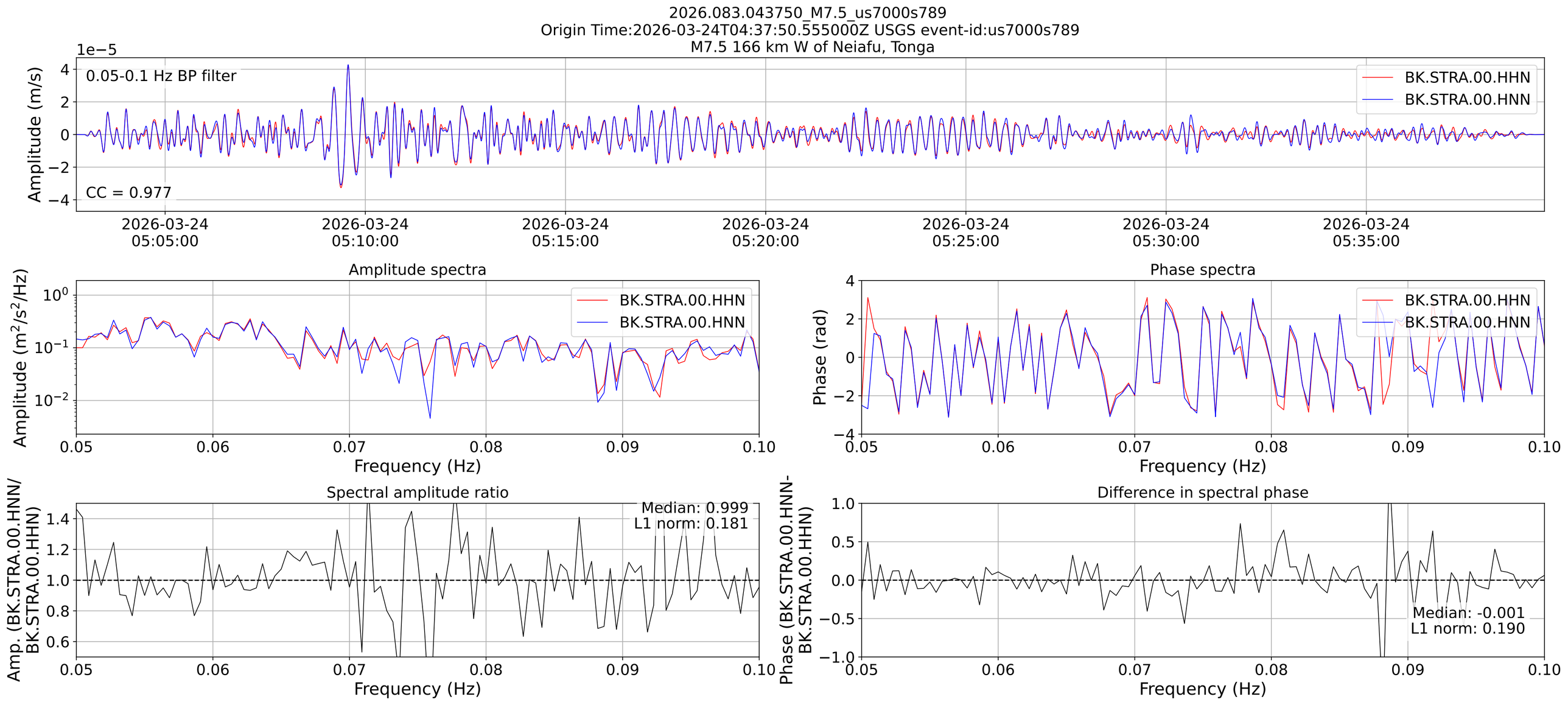

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.992
BK.SPAN.00.HHZ
BK.SPAN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPAN.00.HNZ/ BK.SPAN.00.HHZ)
Median: 1.002
L1 norm: 0.155
Difference in spectral phase
Phase (BK.SPAN.00.HNZ-BK.SPAN.00.HHZ)
Median: -0.005
L1 norm: 0.136

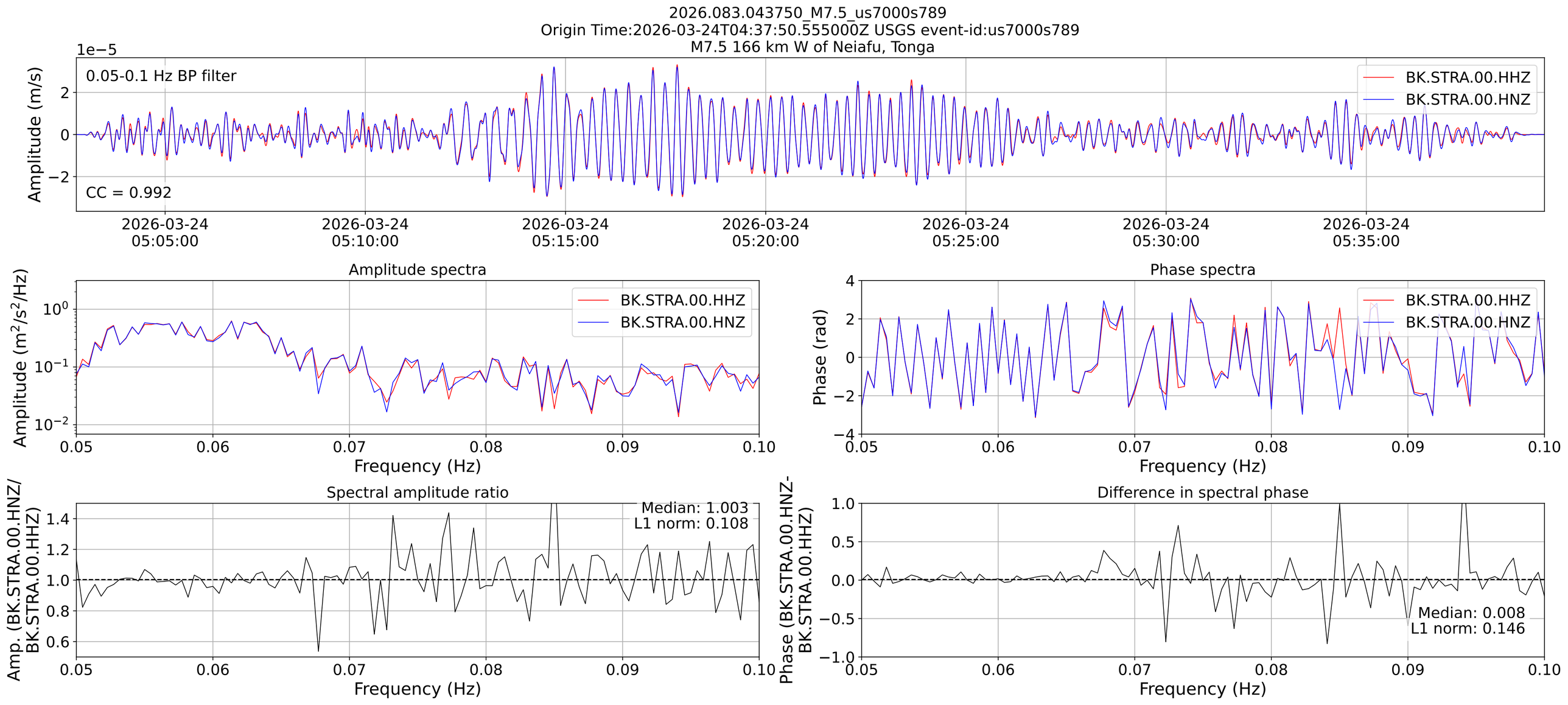

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.SPRL.00.HHE
BK.SPRL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNE/ BK.SPRL.00.HHE)
Median: 0.989
L1 norm: 0.206
Difference in spectral phase
Phase (BK.SPRL.00.HNE- BK.SPRL.00.HHE)
Median: 0.006
L1 norm: 0.147

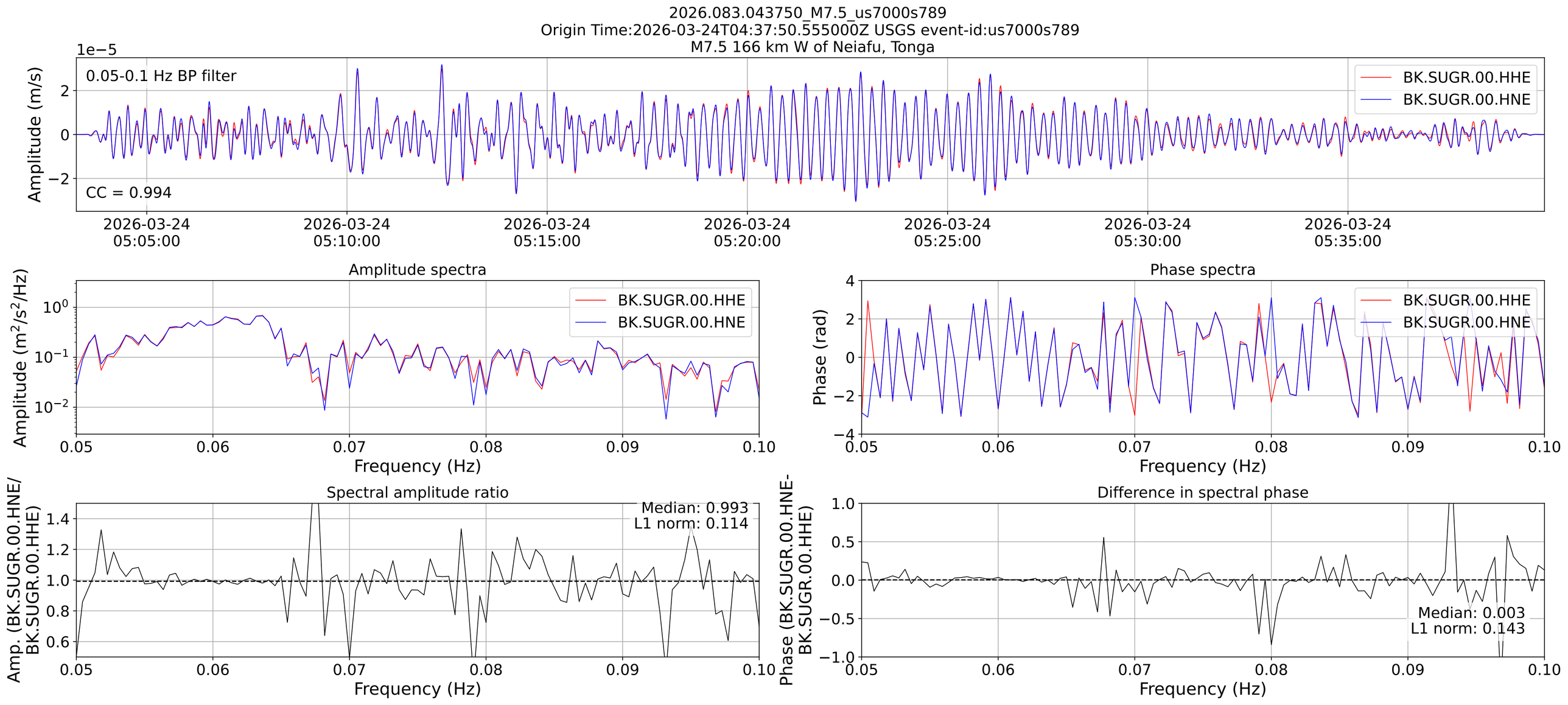

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.993
BK.SPRL.00.HHN
BK.SPRL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNN/ BK.SPRL.00.HHN)
Median: 1.013
L1 norm: 0.089
Difference in spectral phase
Phase (BK.SPRL.00.HNN- BK.SPRL.00.HHN)
Median: 0.003
L1 norm: 0.113

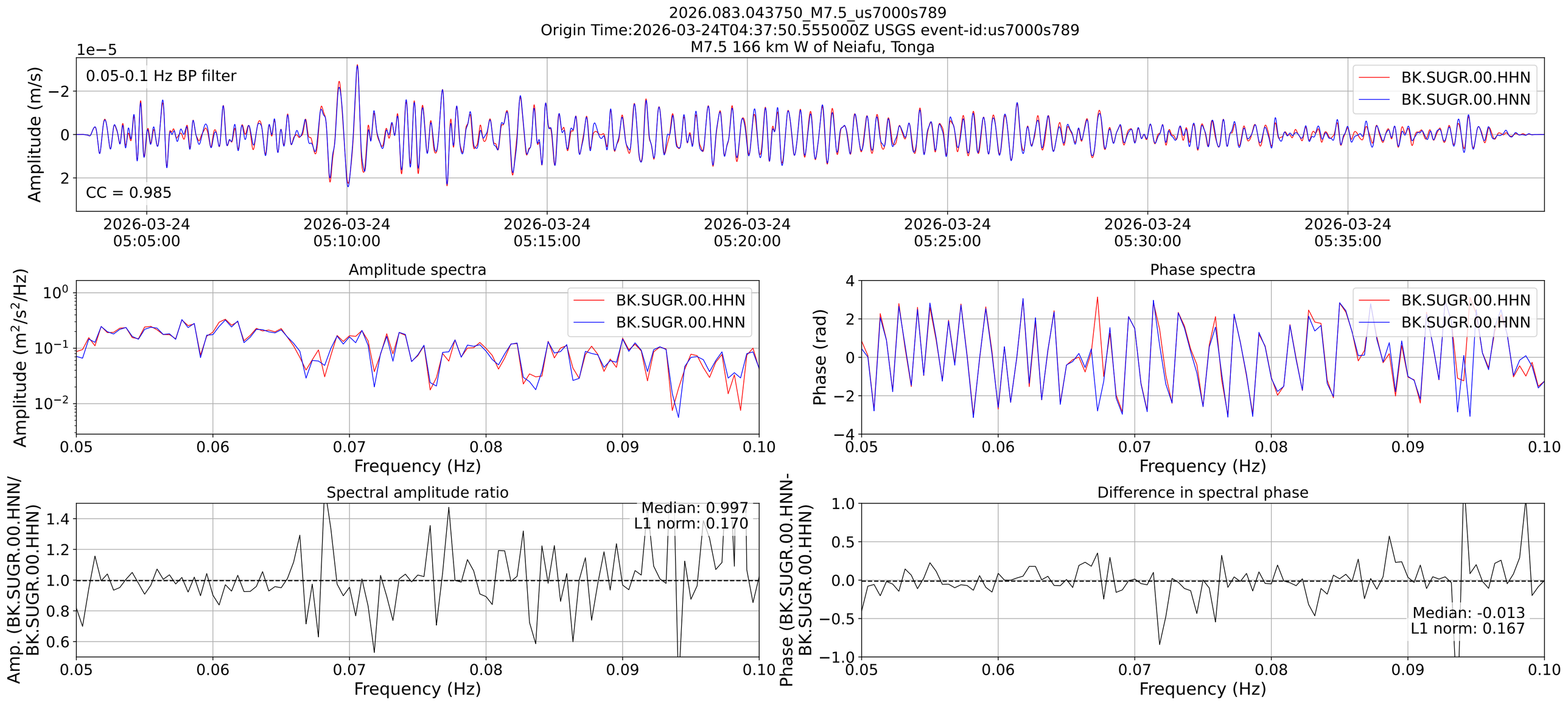

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.987
BK.SPRL.00.HHZ
BK.SPRL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SPRL.00.HNZ/ BK.SPRL.00.HHZ)
Median: 1.015
L1 norm: 0.220
Difference in spectral phase
Phase (BK.SPRL.00.HNZ- BK.SPRL.00.HHZ)
Median: -0.000
L1 norm: 0.206

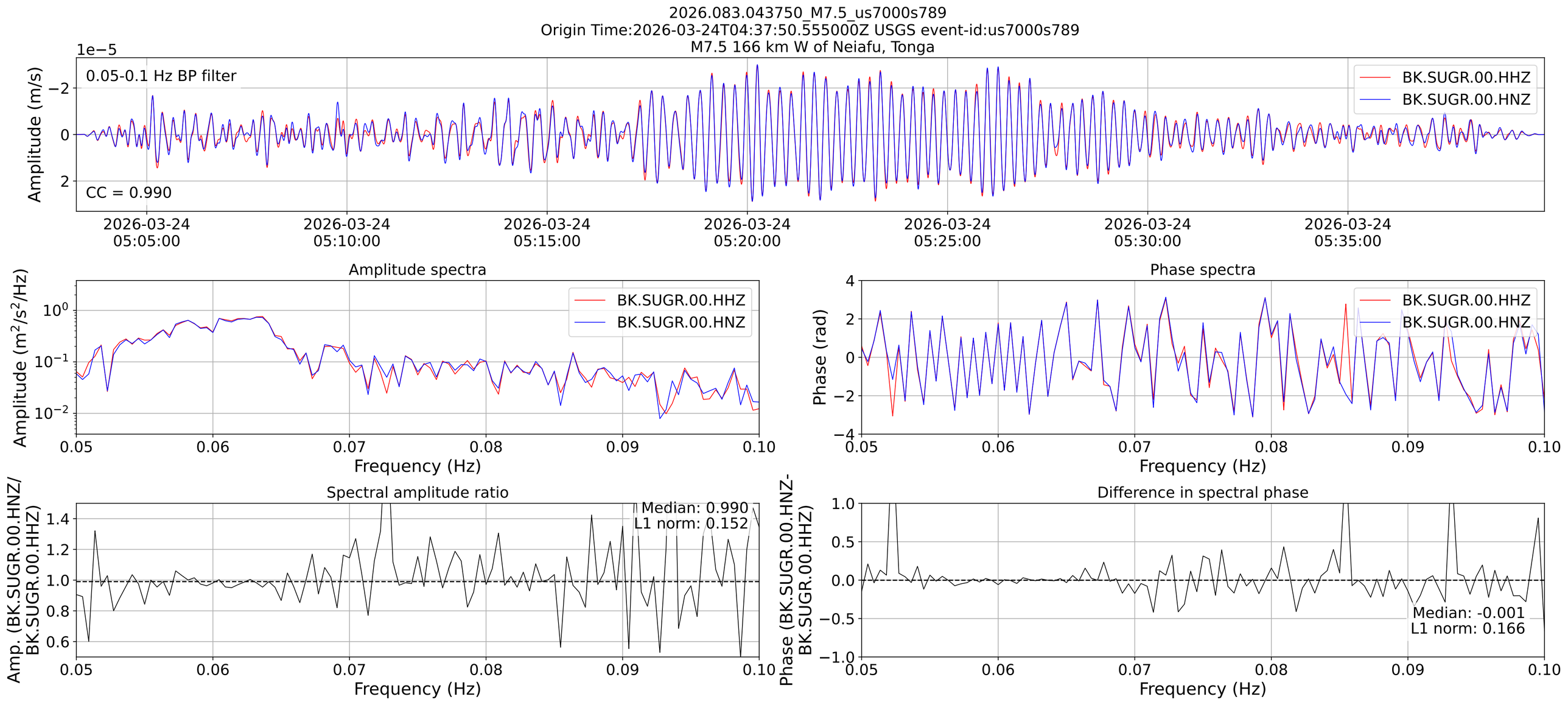

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.STRA.00.HHE
BK.STRA.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.STRA.00.HNE/ BK.STRA.00.HHE)
Median: 1.037
L1 norm: 0.137
Difference in spectral phase
Phase (BK.STRA.00.HNE- BK.STRA.00.HHE)
Median: -0.018
L1 norm: 0.156

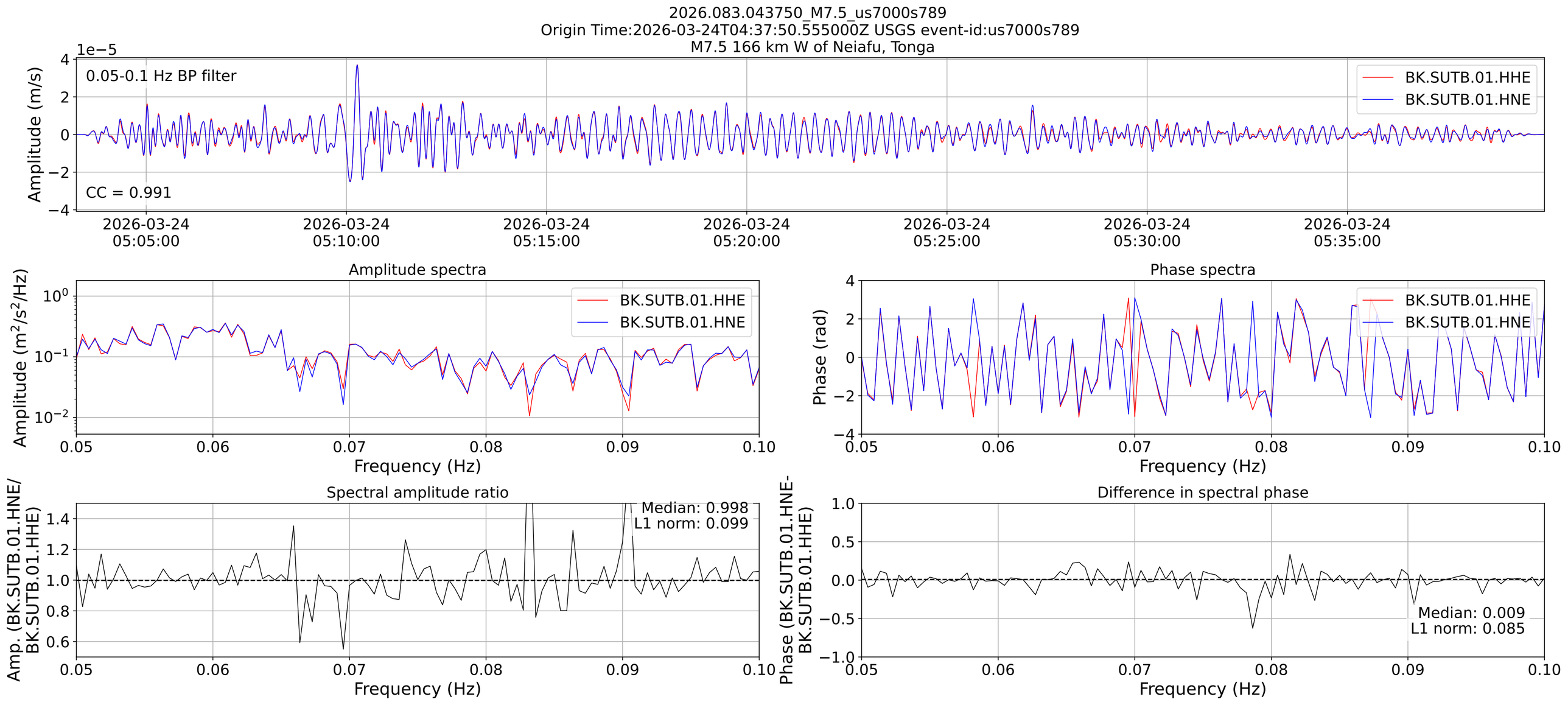

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.STRA.00.HHN
BK.STRA.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.STRA.00.HNN/ BK.STRA.00.HHN)
Median: 0.999
L1 norm: 0.181
Difference in spectral phase
Phase (BK.STRA.00.HNN- BK.STRA.00.HHN)
Median: -0.001
L1 norm: 0.190

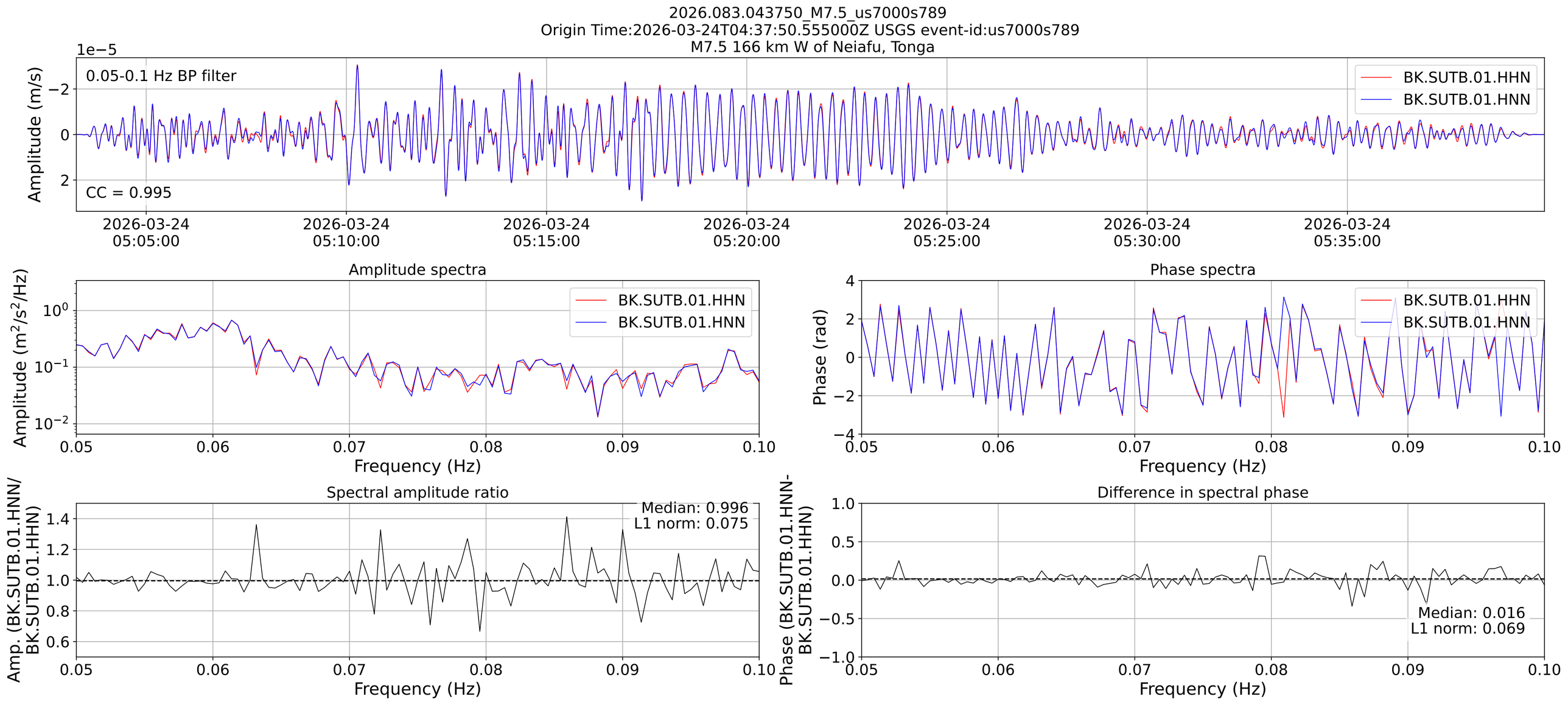

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.STRA.00.HHZ
BK.STRA.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.STRA.00.HNZ/ BK.STRA.00.HHZ)
Median: 1.003
L1 norm: 0.108
Difference in spectral phase
Phase (BK.STRA.00.HNZ- BK.STRA.00.HHZ)
Median: 0.008
L1 norm: 0.146

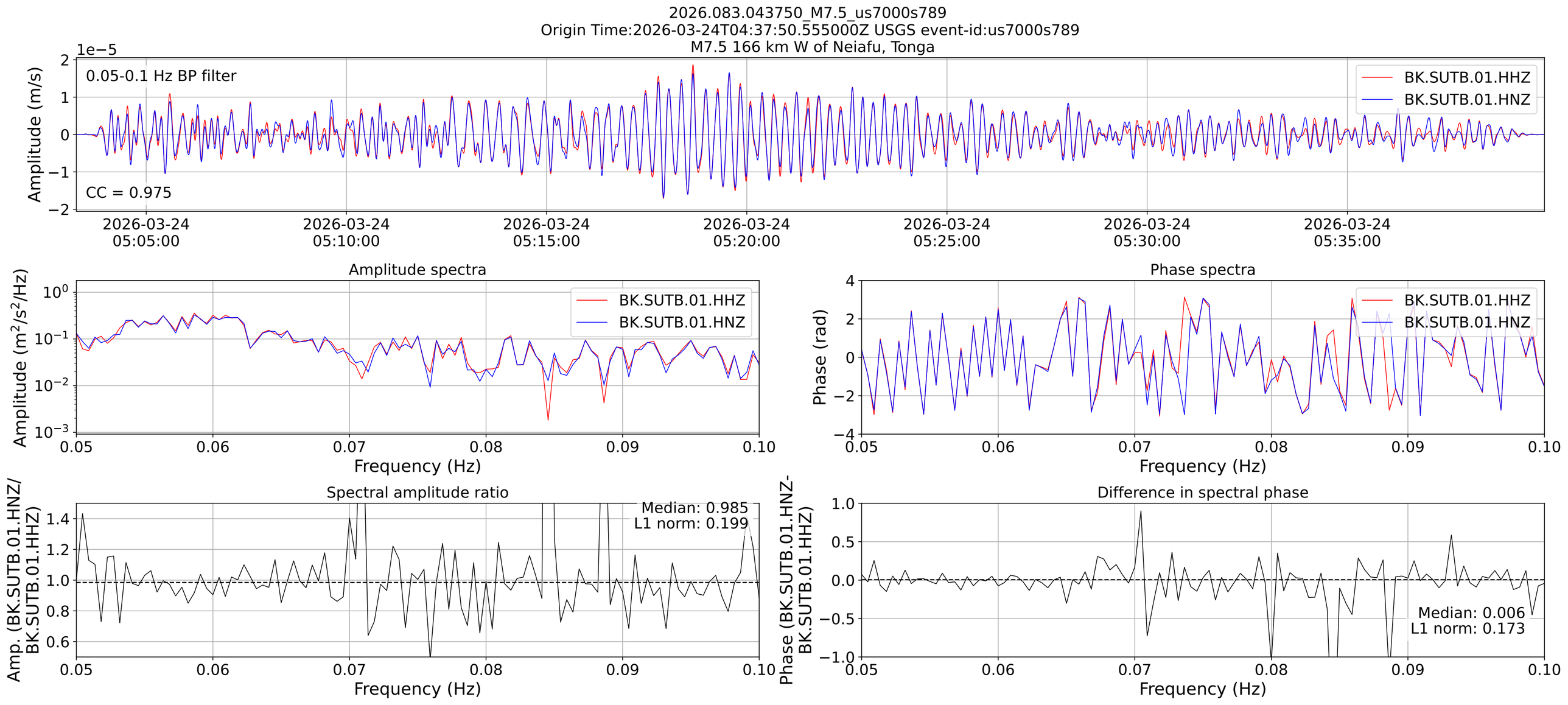

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.SUGR.00.HHE
BK.SUGR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNE/ BK.SUGR.00.HHE)
Median: 0.993
L1 norm: 0.114
Difference in spectral phase
Phase (BK.SUGR.00.HNE- BK.SUGR.00.HHE)
Median: 0.003
L1 norm: 0.143

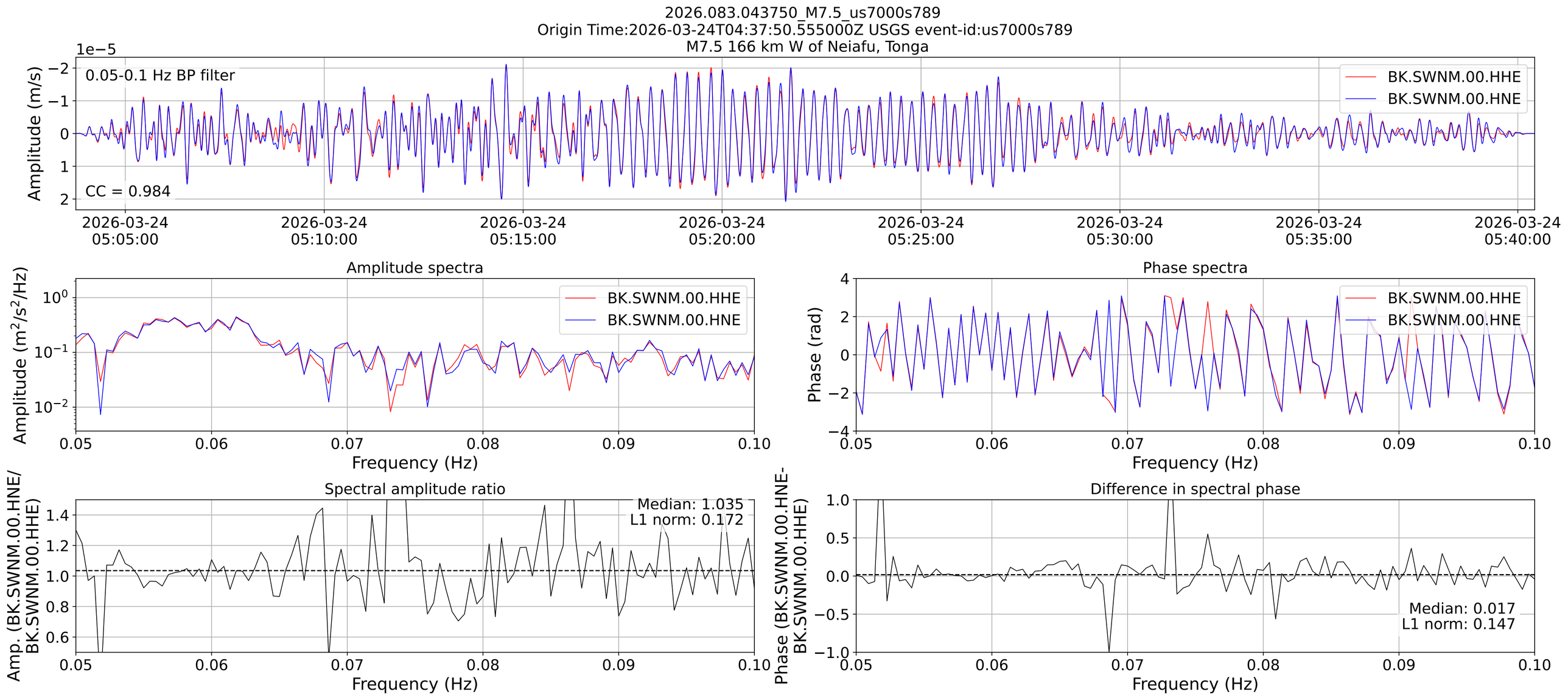

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.SUGR.00.HHN
BK.SUGR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNN/ BK.SUGR.00.HHN)
Median: 0.997
L1 norm: 0.170
Difference in spectral phase
Phase (BK.SUGR.00.HNN-BK.SUGR.00.HHN)
Median: -0.013
L1 norm: 0.167

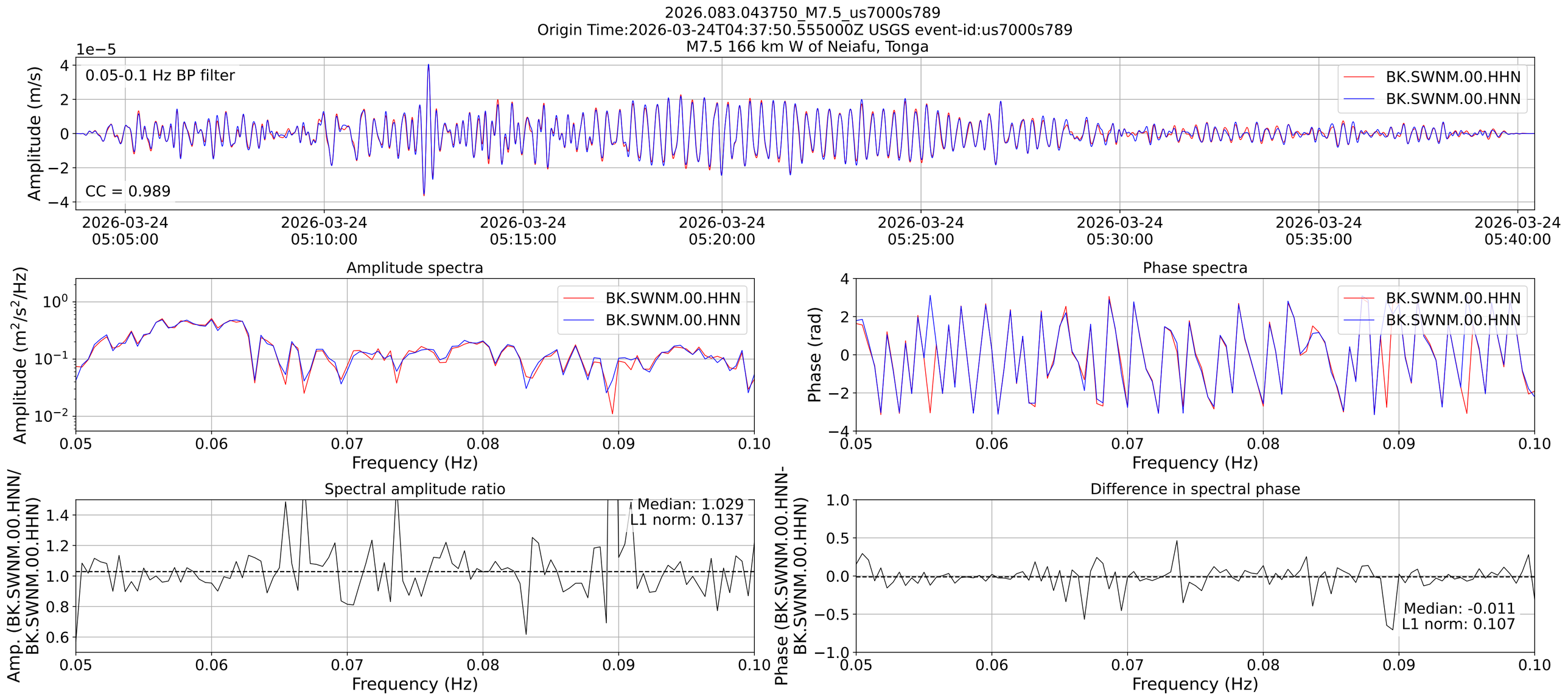

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.SUGR.00.HHZ
BK.SUGR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUGR.00.HNZ/ BK.SUGR.00.HHZ)
Median: 0.990
L1 norm: 0.152
Difference in spectral phase
Phase (BK.SUGR.00.HNZ-BK.SUGR.00.HHZ)
Median: -0.001
L1 norm: 0.166

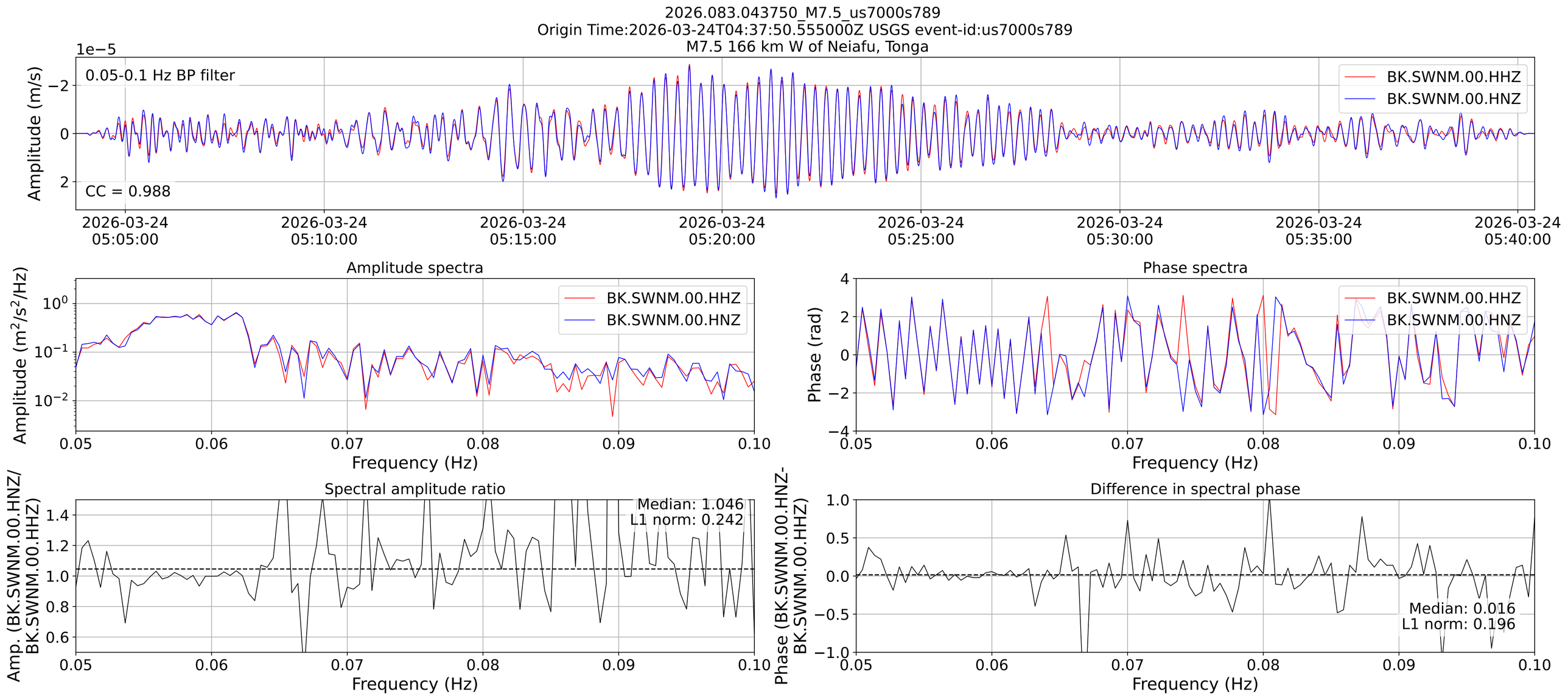

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
BK.SUTB.01.HHE
BK.SUTB.01.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNE/ BK.SUTB.01.HHE)
Median: 0.998
L1 norm: 0.099
Difference in spectral phase
Phase (BK.SUTB.01.HNE- BK.SUTB.01.HHE)
Median: 0.009
L1 norm: 0.085

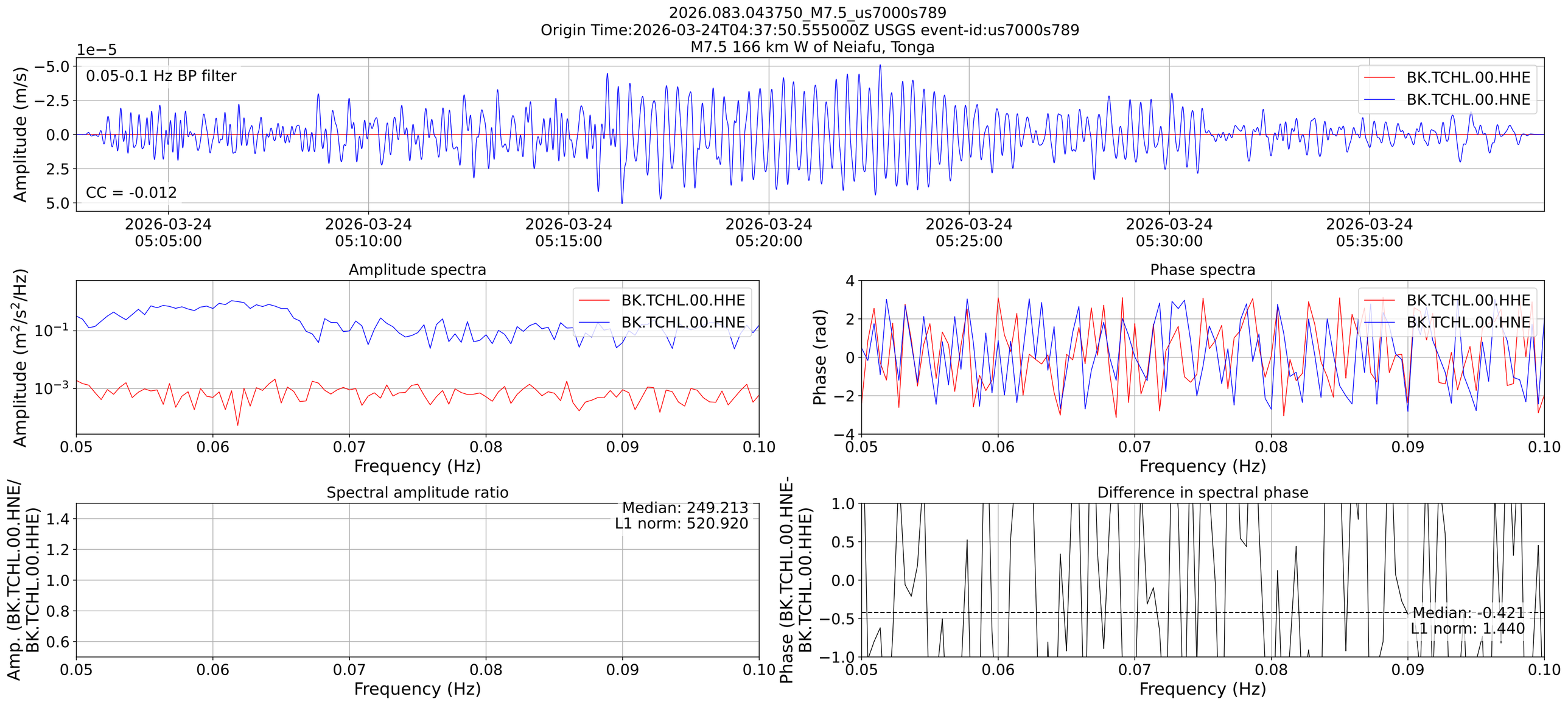

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.995
BK.SUTB.01.HHN
BK.SUTB.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNN/ BK.SUTB.01.HHN)
Median: 0.996
L1 norm: 0.075
Difference in spectral phase
Phase (BK.SUTB.01.HNN- BK.SUTB.01.HHN)
Median: 0.016
L1 norm: 0.069

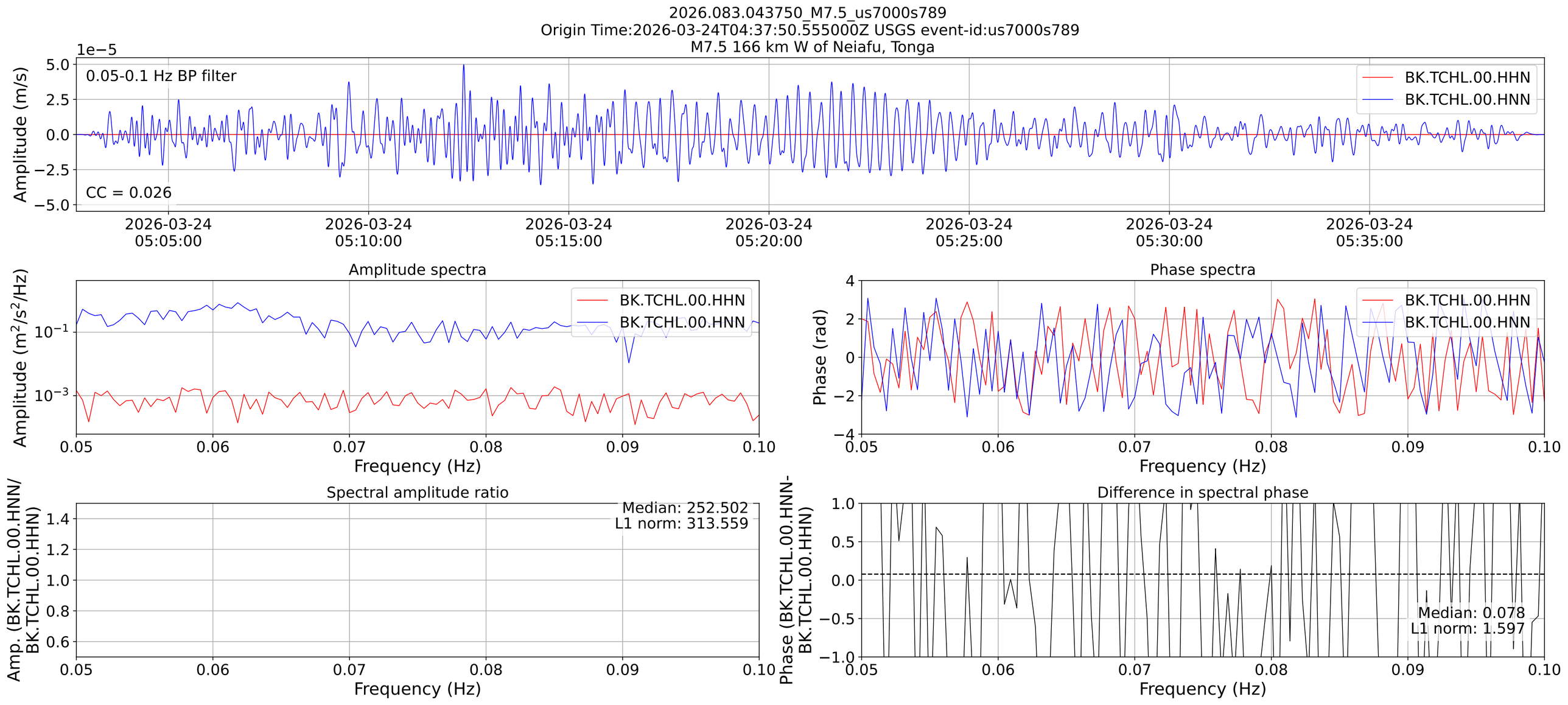

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.975
BK.SUTB.01.HHZ
BK.SUTB.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SUTB.01.HNZ/ BK.SUTB.01.HHZ)
Median: 0.985
L1 norm: 0.199
Difference in spectral phase
Phase (BK.SUTB.01.HNZ- BK.SUTB.01.HHZ)
Median: 0.006
L1 norm: 0.173

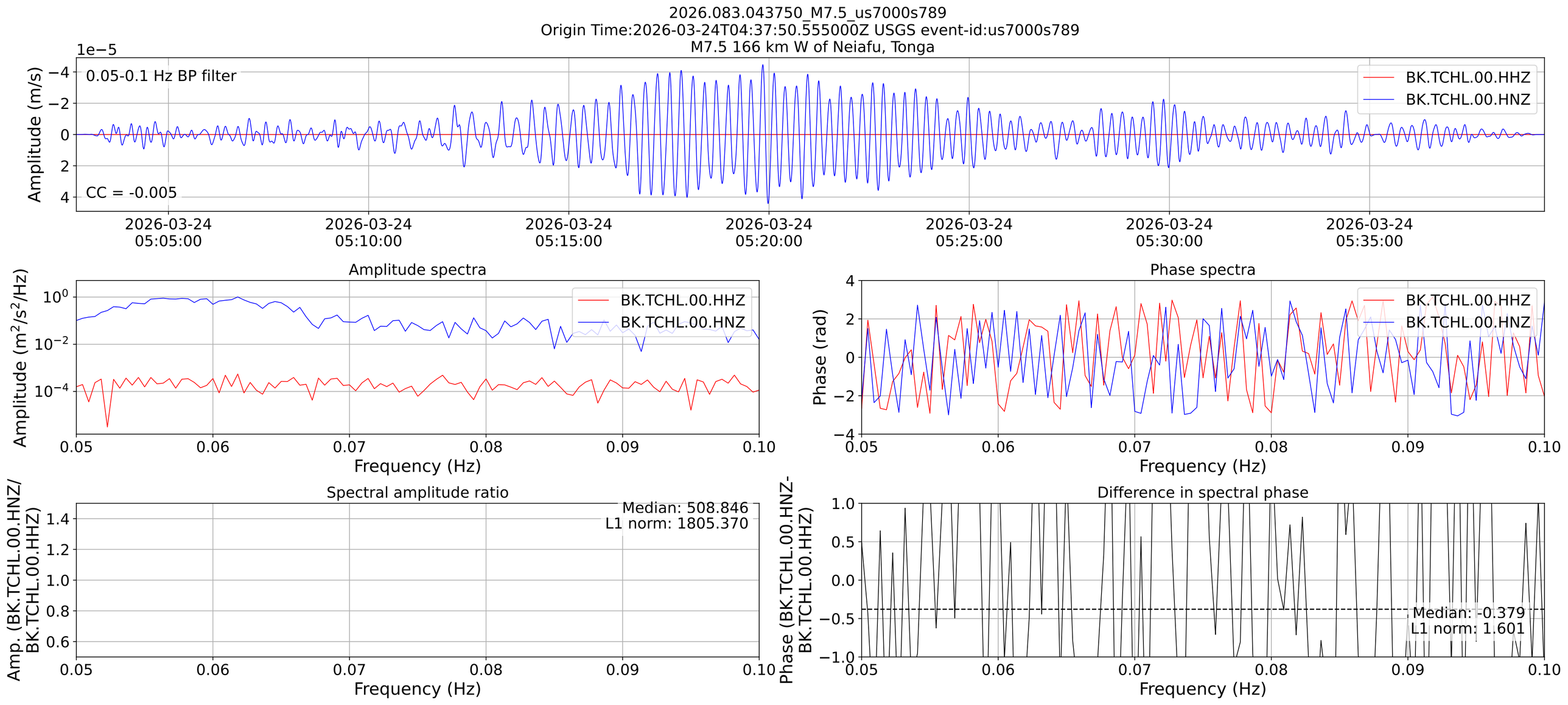

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.984
BK.SWNM.00.HHE
BK.SWNM.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNE/ BK.SWNM.00.HHE)
Median: 1.035
L1 norm: 0.172
Difference in spectral phase
Phase (BK.SWNM.00.HNE- BK.SWNM.00.HHE)
Median: 0.017
L1 norm: 0.147

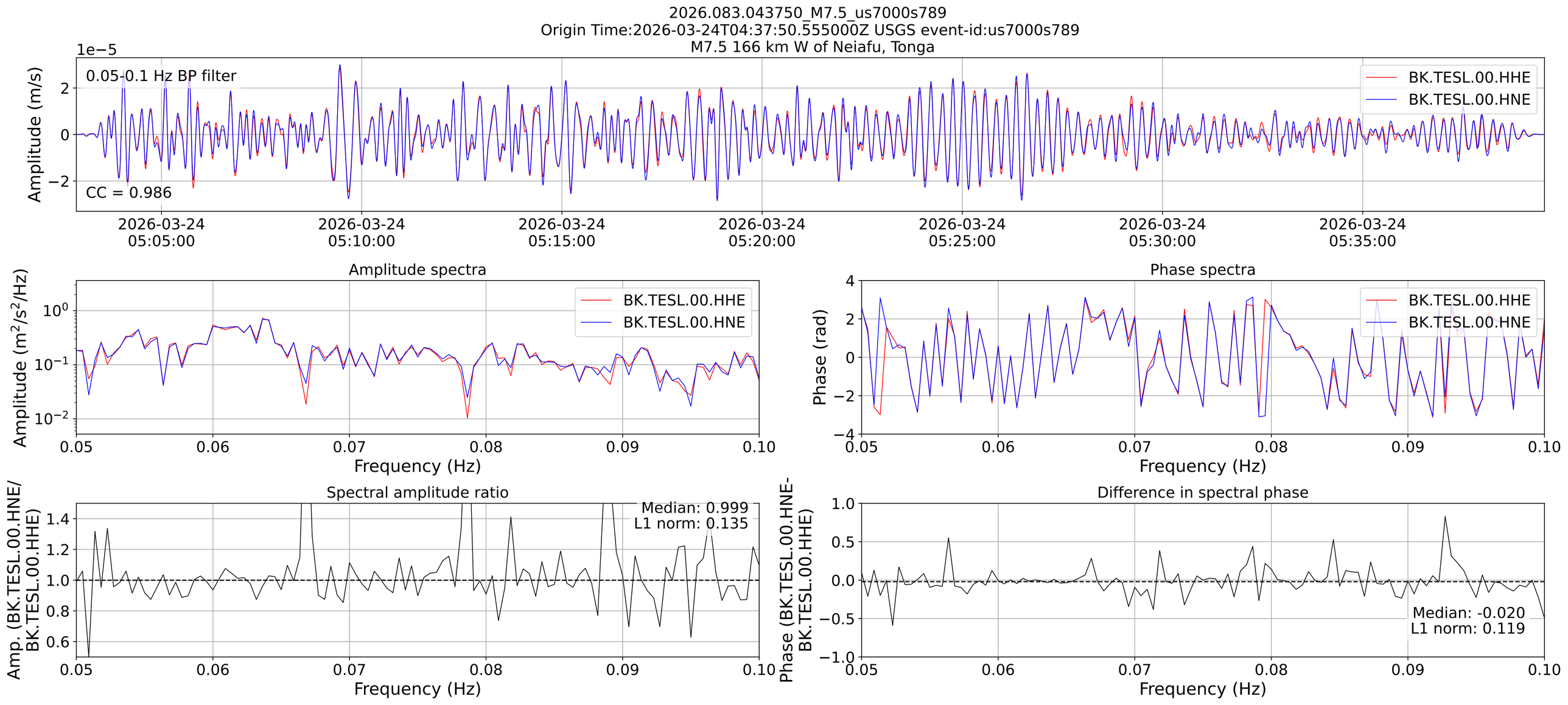

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.989
BK.SWNM.00.HHN
BK.SWNM.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNN/ BK.SWNM.00.HHN)
Median: 1.029
L1 norm: 0.137
Difference in spectral phase
Phase (BK.SWNM.00.HNN- BK.SWNM.00.HHN)
Median: -0.011
L1 norm: 0.107

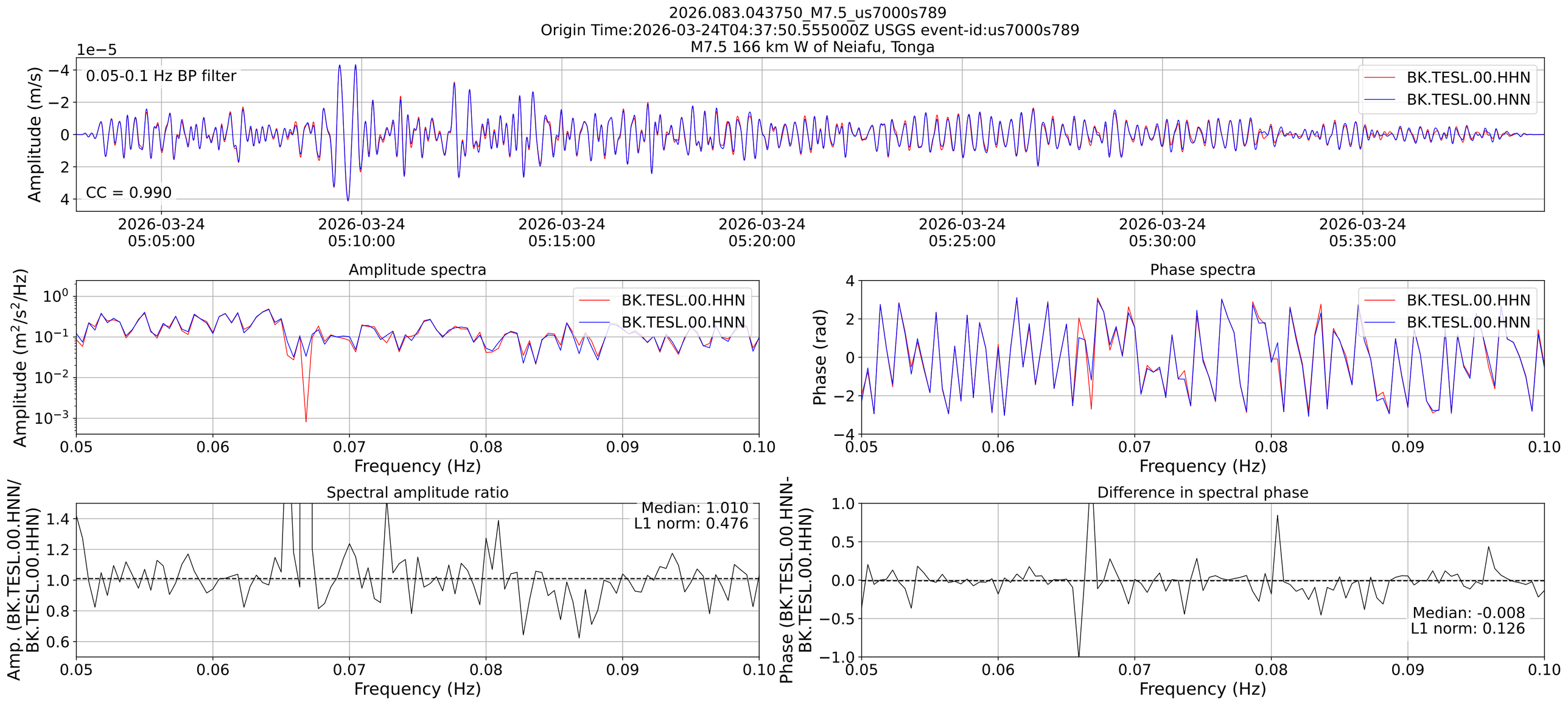

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
Amplitude (m/s)
BK.SWNM.00.HHZ
BK.SWNM.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.SWNM.00.HNZ/ BK.SWNM.00.HHZ)
Median: 1.046
L1 norm: 0.242
Difference in spectral phase
Phase (BK.SWNM.00.HNZ- BK.SWNM.00.HHZ)
Median: 0.016
L1 norm: 0.196

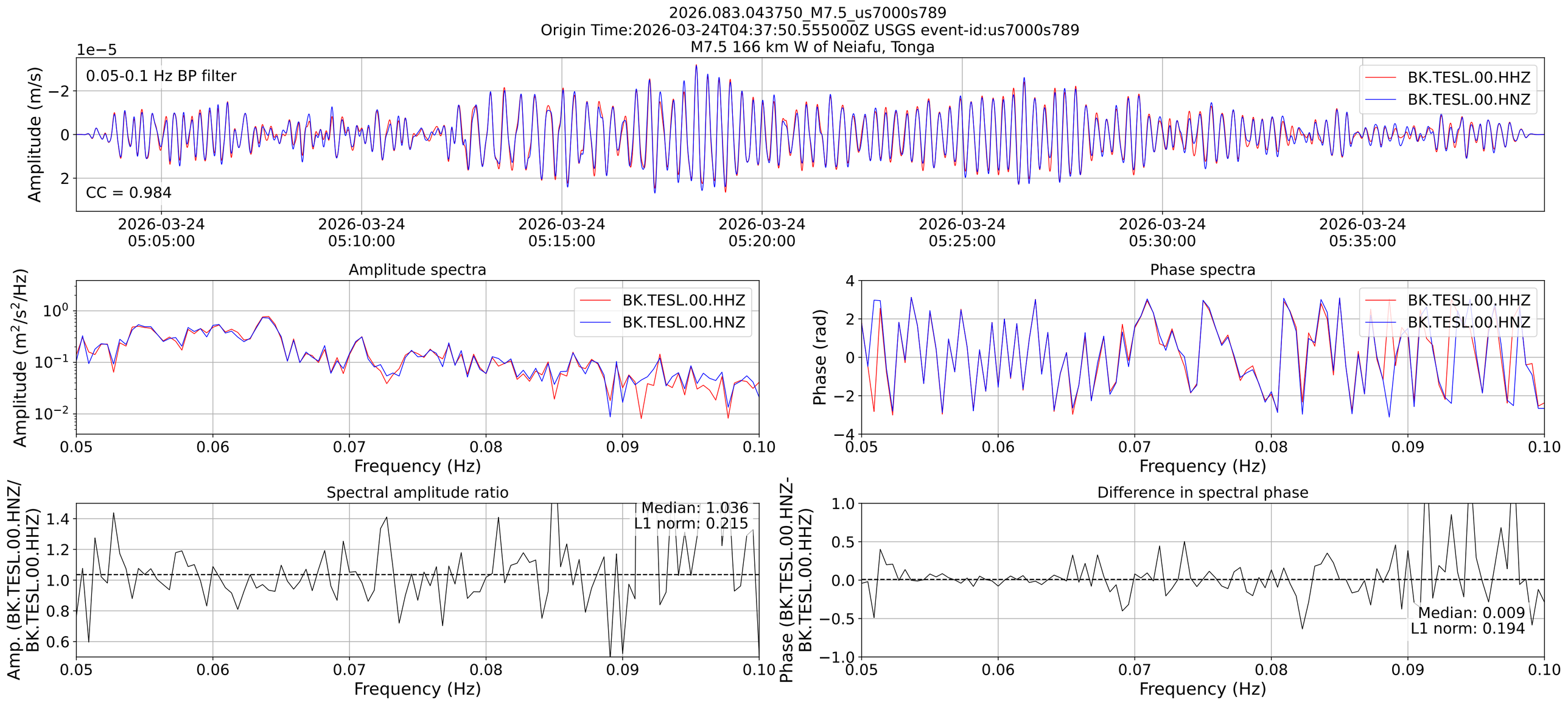

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = -0.012
BK.TCHL.00.HHE
BK.TCHL.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 249.213
L1 norm: 520.920
Amp. (BK.TCHL.00.HNE/ BK.TCHL.00.HHE)
Difference in spectral phase
Phase (BK.TCHL.00.HNE- BK.TCHL.00.HHE)
Median: -0.421
L1 norm: 1.440

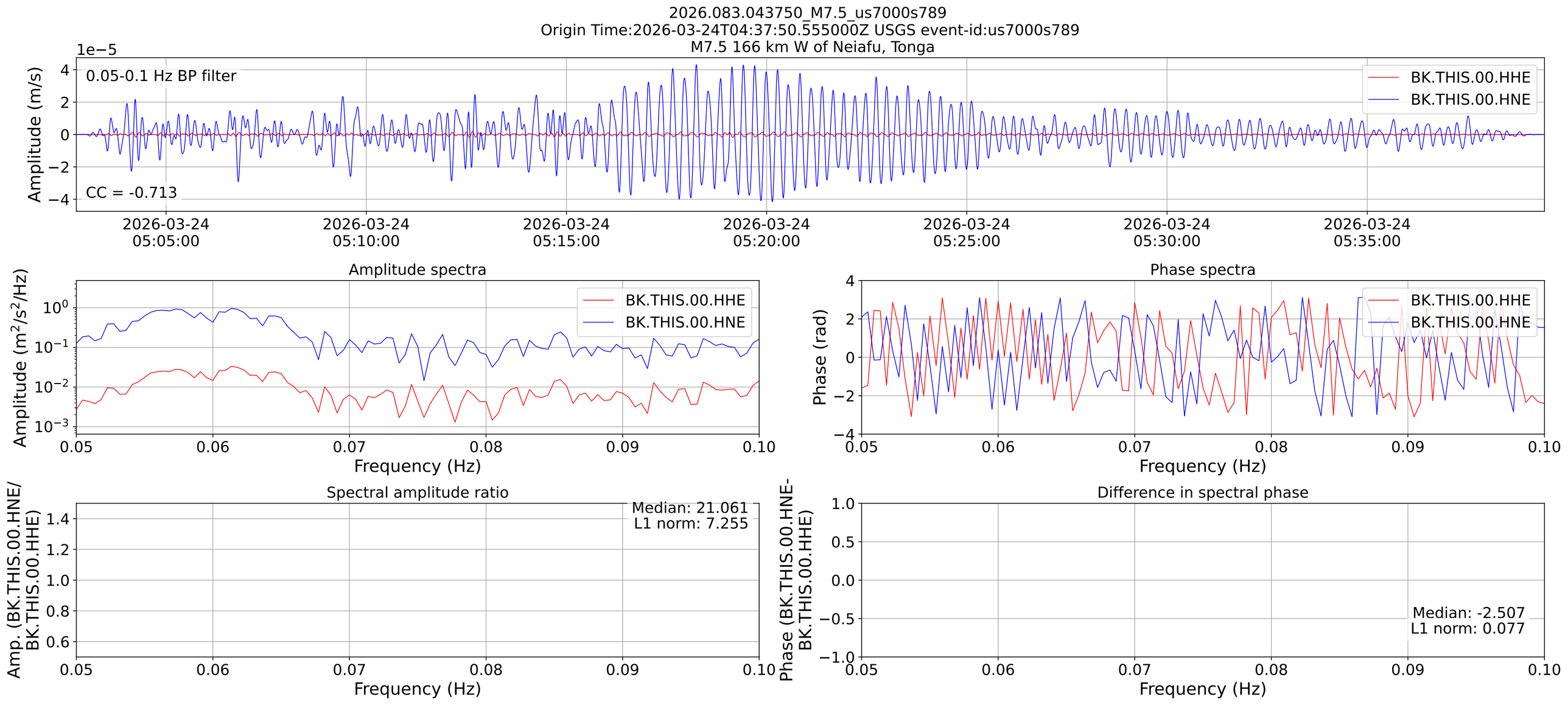

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.026
BK.TCHL.00.HHN
BK.TCHL.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TCHL.00.HNN/ BK.TCHL.00.HHN)
Median: 252.502
L1 norm: 313.559
Difference in spectral phase
Phase (BK.TCHL.00.HNN-BK.TCHL.00.HHN)
Median: 0.078
L1 norm: 1.597

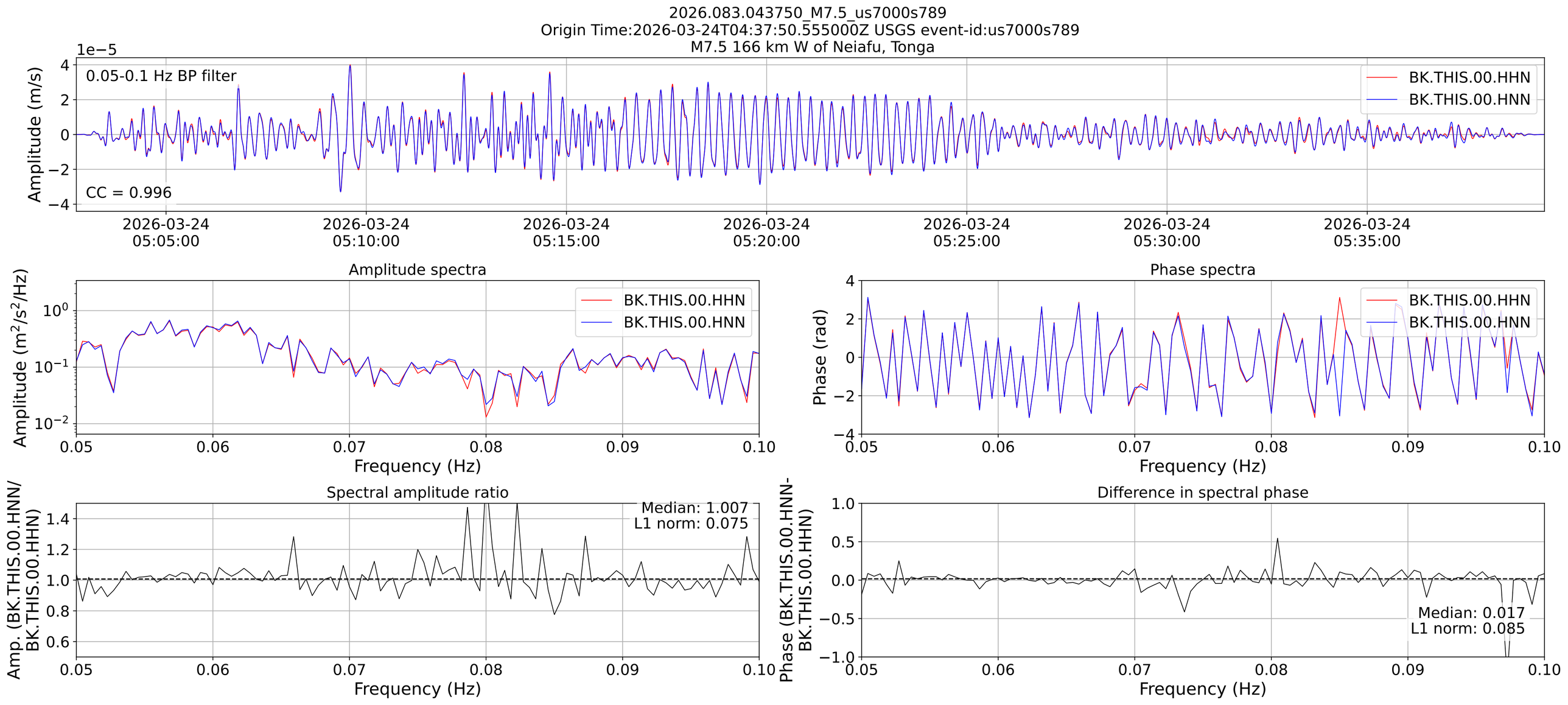

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = -0.005
Amplitude (m/s)
BK.TCHL.00.HHZ
BK.TCHL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TCHL.00.HNZ/ BK.TCHL.00.HHZ)
Median: 508.846
L1 norm: 1805.370
Difference in spectral phase
Phase (BK.TCHL.00.HNZ- BK.TCHL.00.HHZ)
Median: -0.379
L1 norm: 1.601

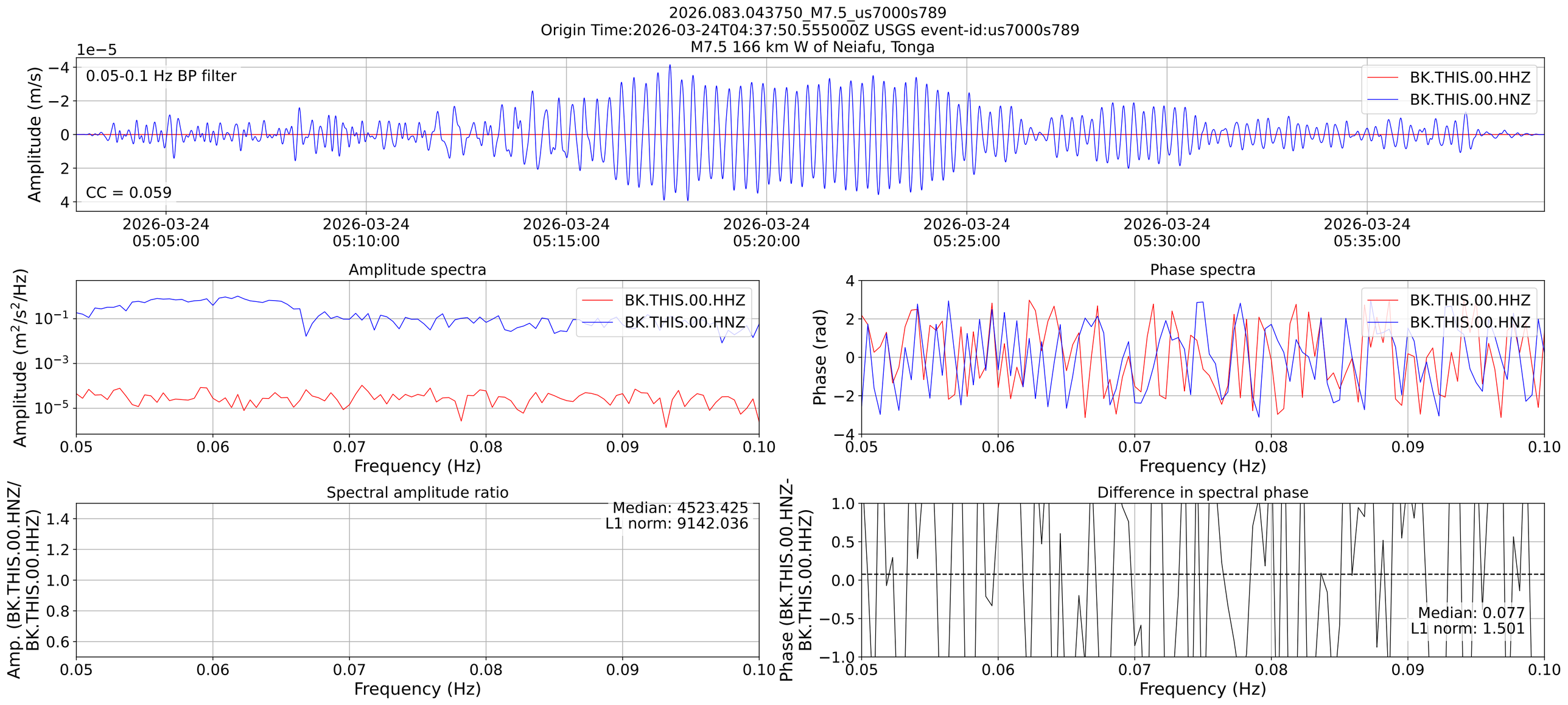

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.TESL.00.HHE
BK.TESL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNE/ BK.TESL.00.HHE)
Median: 0.999
L1 norm: 0.135
Difference in spectral phase
Phase (BK.TESL.00.HNE- BK.TESL.00.HHE)
Median: -0.020
L1 norm: 0.119

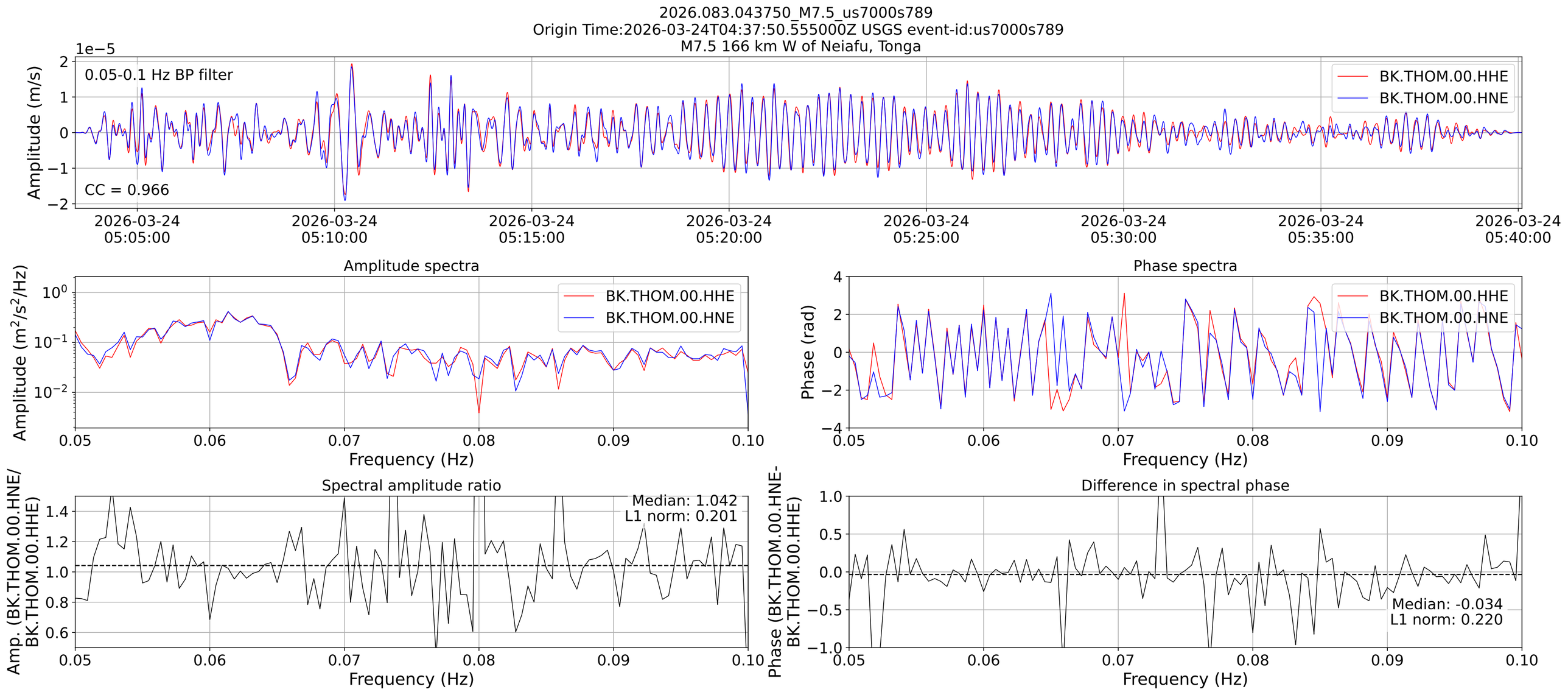

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.TESL.00.HHN
BK.TESL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNN/ BK.TESL.00.HHN)
Median: 1.010
L1 norm: 0.476
Difference in spectral phase
Phase (BK.TESL.00.HNN- BK.TESL.00.HHN)
Median: -0.008
L1 norm: 0.126

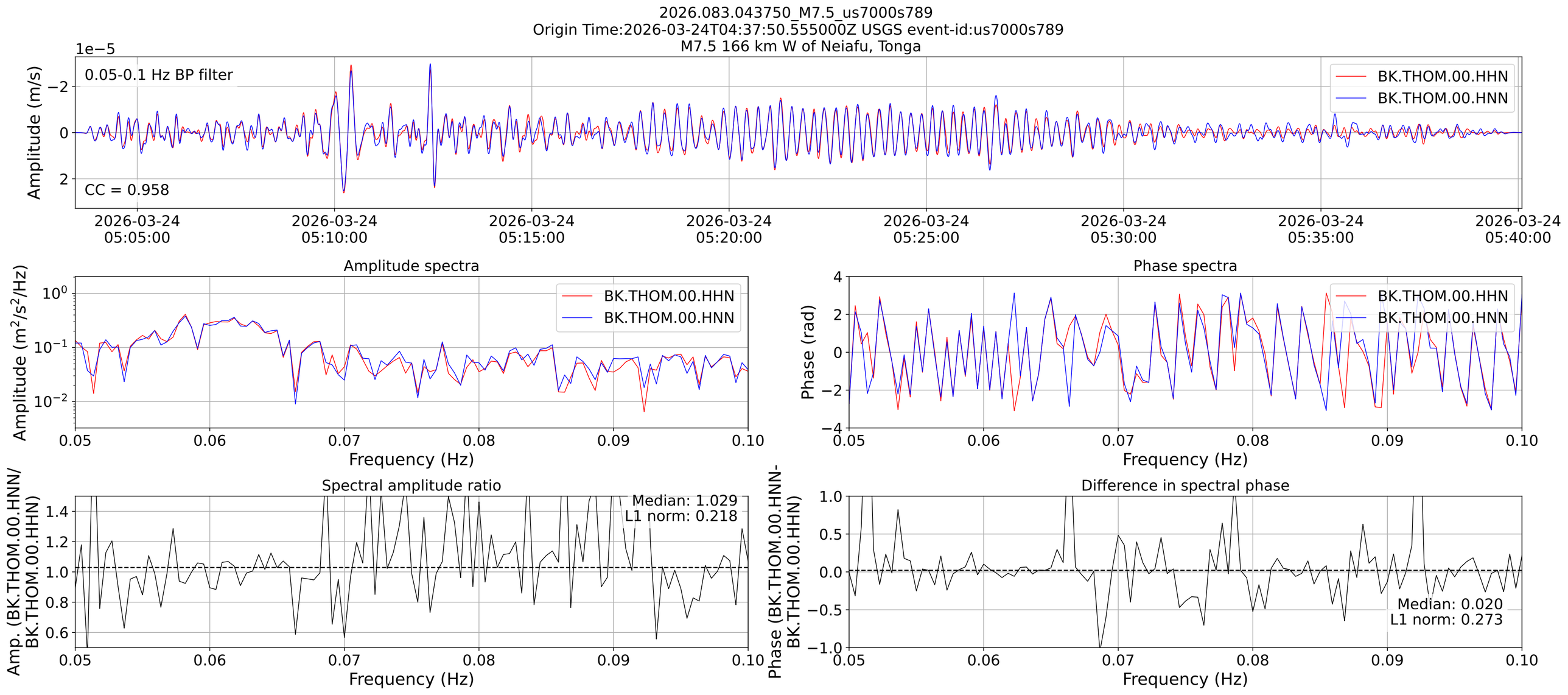

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.984
Amplitude (m/s)
BK.TESL.00.HHZ
BK.TESL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TESL.00.HNZ/ BK.TESL.00.HHZ)
Median: 1.036
L1 norm: 0.215
Difference in spectral phase
Phase (BK.TESL.00.HNZ- BK.TESL.00.HHZ)
Median: 0.009
L1 norm: 0.194

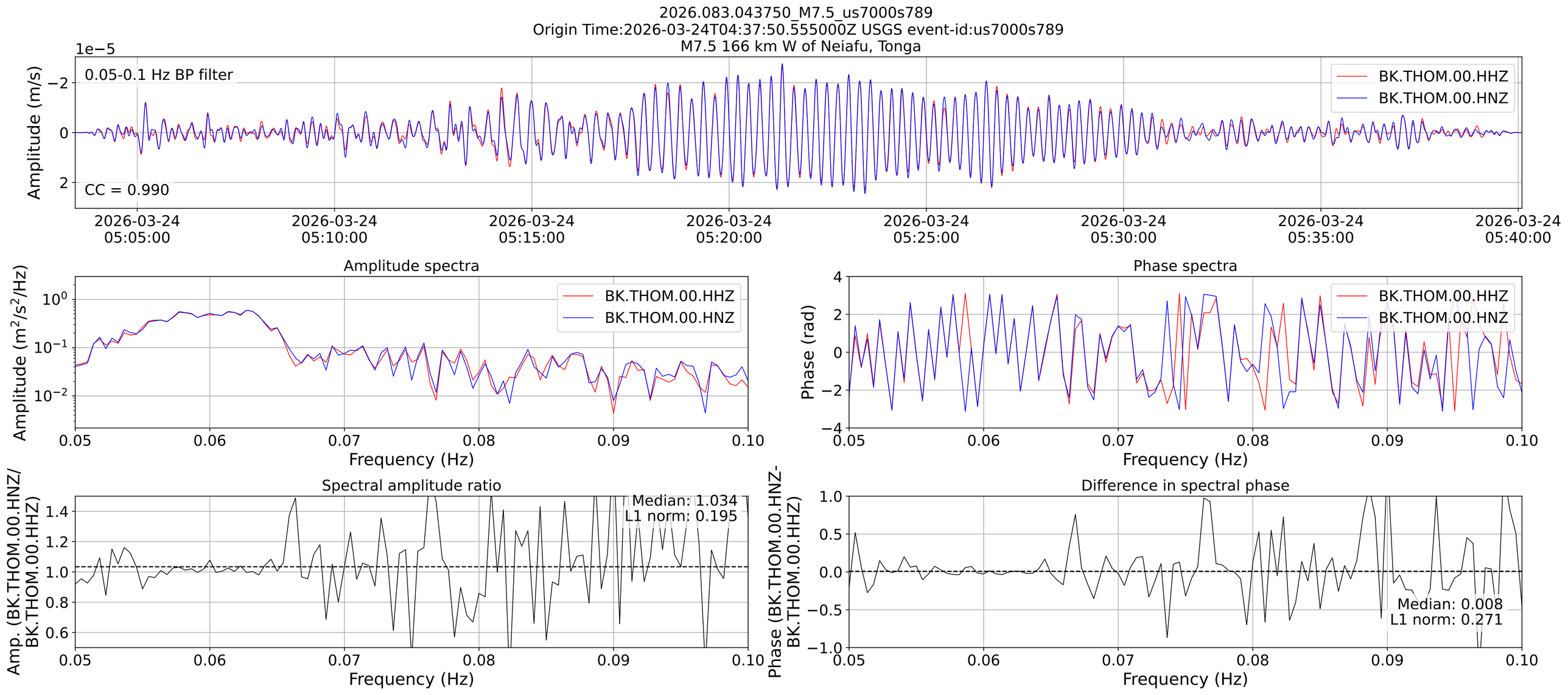

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = -0.713
Amplitude (m/s)
BK.THIS.00.HHE
BK.THIS.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THIS.00.HNE/ BK.THIS.00.HHE)
Median: 21.061
L1 norm: 7.255
Difference in spectral phase
Phase (BK.THIS.00.HNE- BK.THIS.00.HHE)
Median: -2.507
L1 norm: 0.077

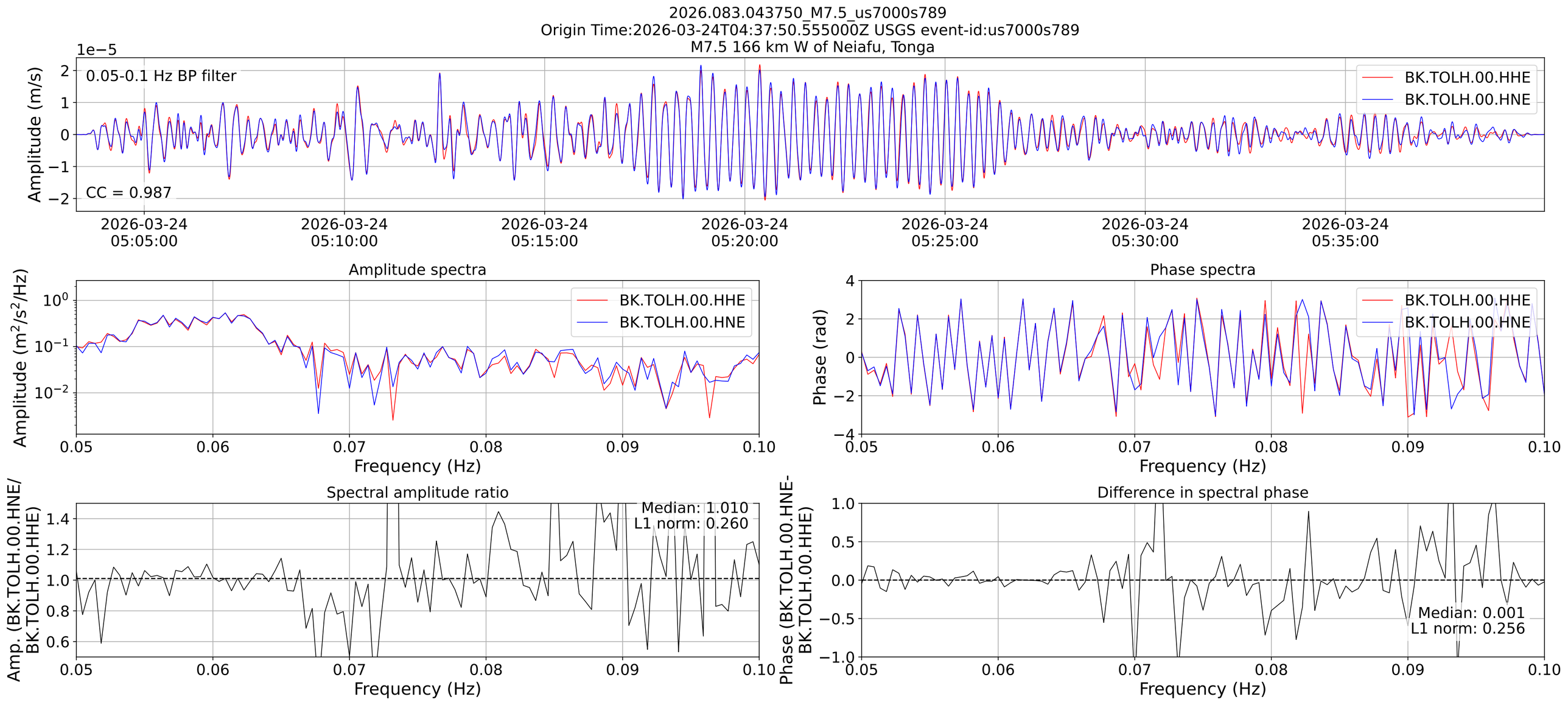

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.996
Amplitude (m/s)
BK.THIS.00.HHN
BK.THIS.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THIS.00.HNN/ BK.THIS.00.HHN)
Median: 1.007
L1 norm: 0.075
Difference in spectral phase
Phase (BK.THIS.00.HNN- BK.THIS.00.HHN)
Median: 0.017
L1 norm: 0.085

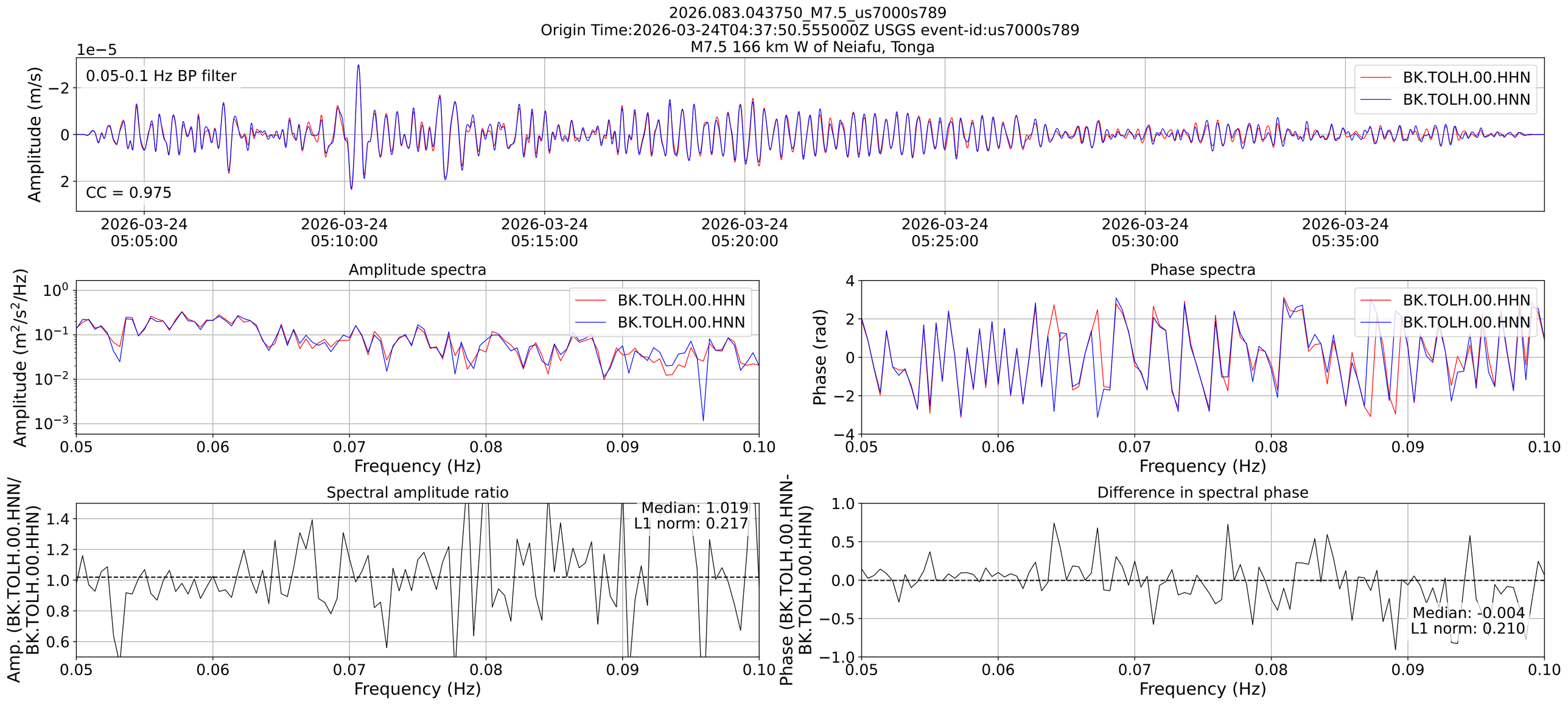

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.059
BK.THIS.00.HHZ
BK.THIS.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THIS.00.HNZ/ BK.THIS.00.HHZ)
Median: 4523.425
L1 norm: 9142.036
Difference in spectral phase
Phase (BK.THIS.00.HNZ- BK.THIS.00.HHZ)
Median: 0.077
L1 norm: 1.501

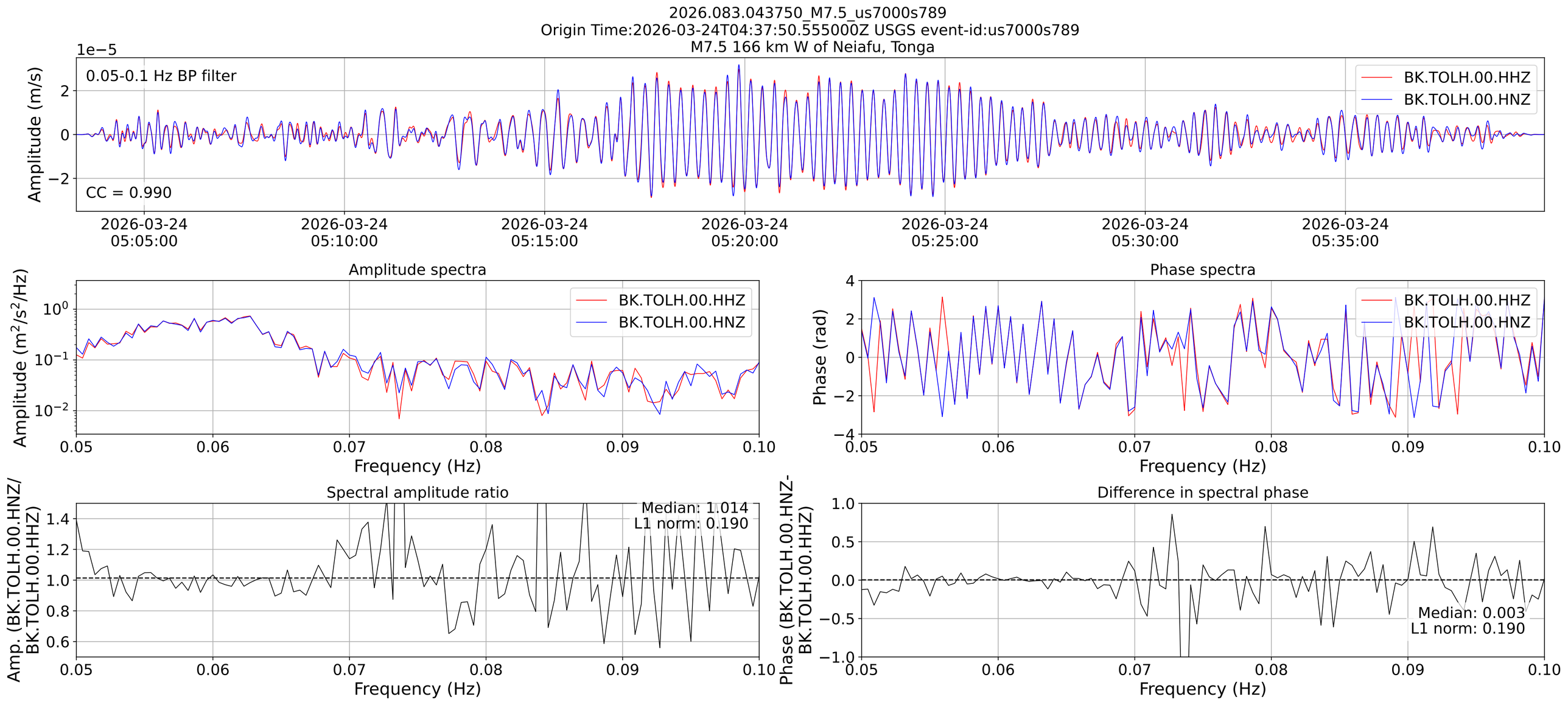

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.966
Amplitude (m/s)
BK.THOM.00.HHE
BK.THOM.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNE/ BK.THOM.00.HHE)
Median: 1.042
L1 norm: 0.201
Difference in spectral phase
Phase (BK.THOM.00.HNE- BK.THOM.00.HHE)
Median: -0.034
L1 norm: 0.220

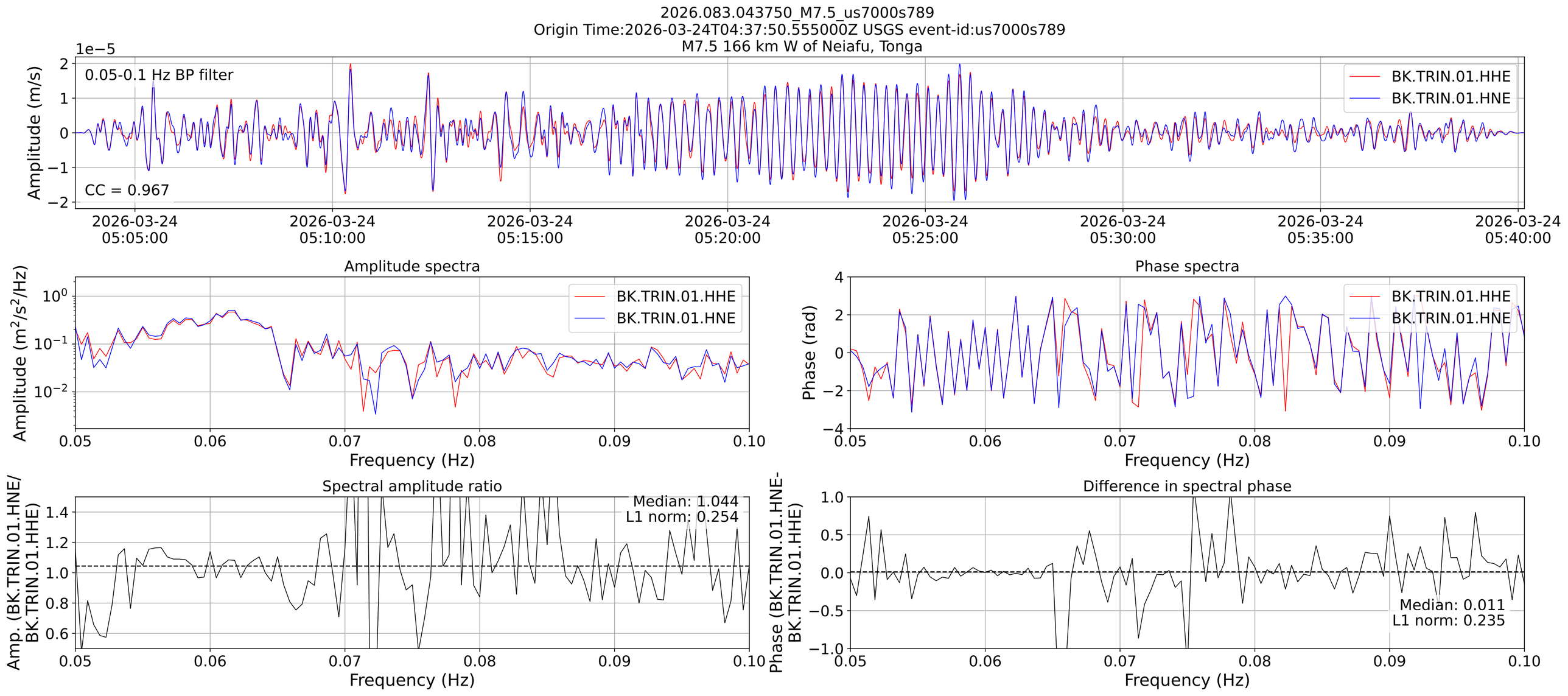

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.958
Amplitude (m/s)
BK.THOM.00.HHN
BK.THOM.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNN/ BK.THOM.00.HHN)
Median: 1.029
L1 norm: 0.218
Difference in spectral phase
Phase (BK.THOM.00.HNN- BK.THOM.00.HHN)
Median: 0.020
L1 norm: 0.273

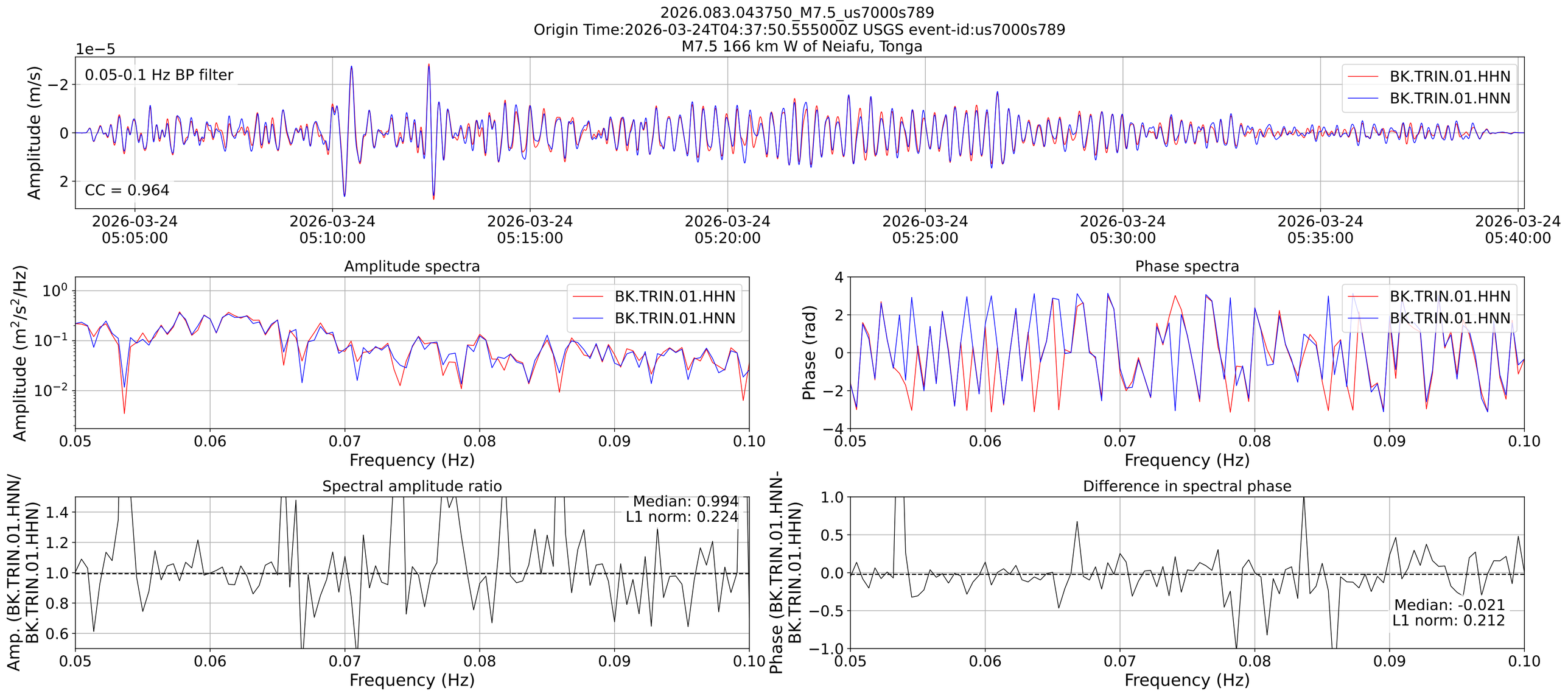

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.THOM.00.HHZ
BK.THOM.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.THOM.00.HNZ/ BK.THOM.00.HHZ)
Median: 1.034
L1 norm: 0.195
Difference in spectral phase
Phase (BK.THOM.00.HNZ- BK.THOM.00.HHZ)
Median: 0.008
L1 norm: 0.271

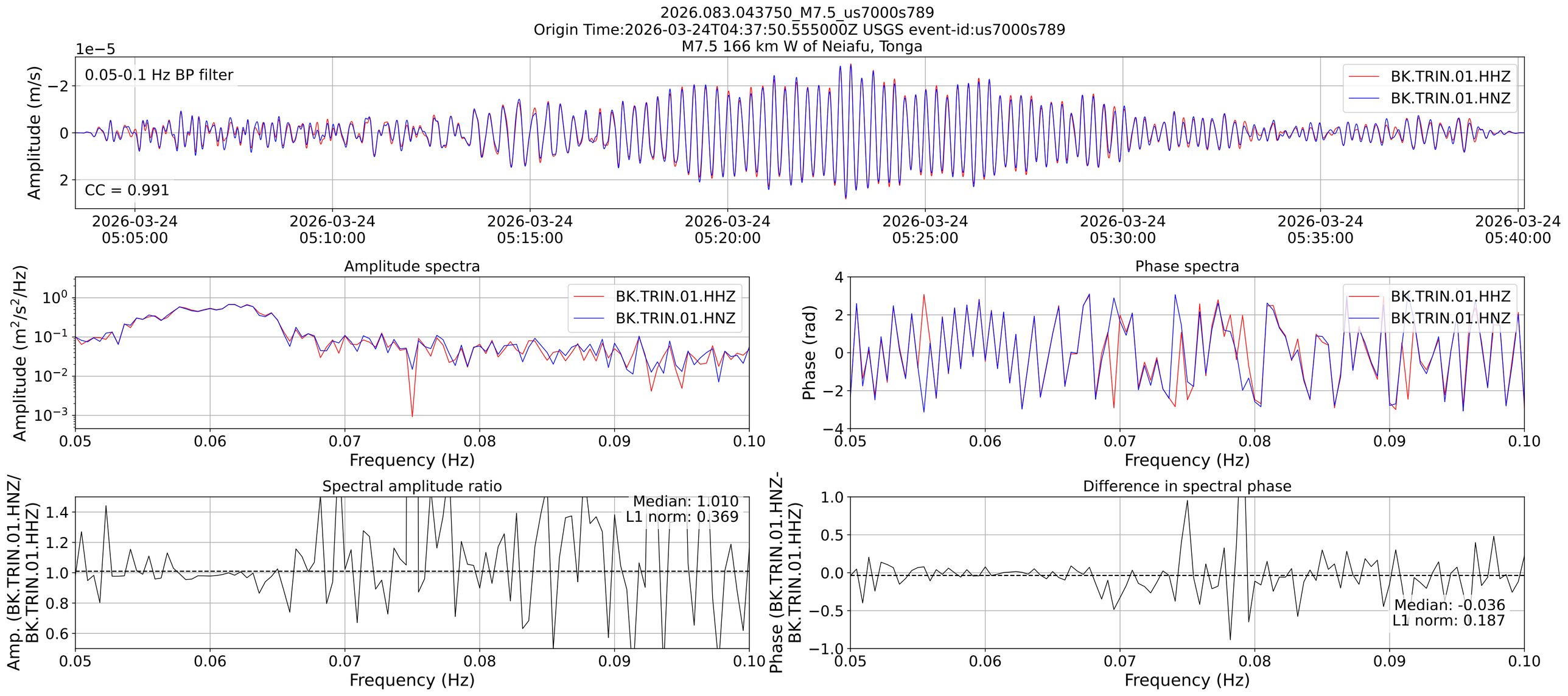

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.987
Amplitude (m/s)
BK.TOLH.00.HHE
BK.TOLH.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNE/ BK.TOLH.00.HHE)
Median: 1.010
L1 norm: 0.260
Difference in spectral phase
Phase (BK.TOLH.00.HNE- BK.TOLH.00.HHE)
Median: 0.001
L1 norm: 0.256

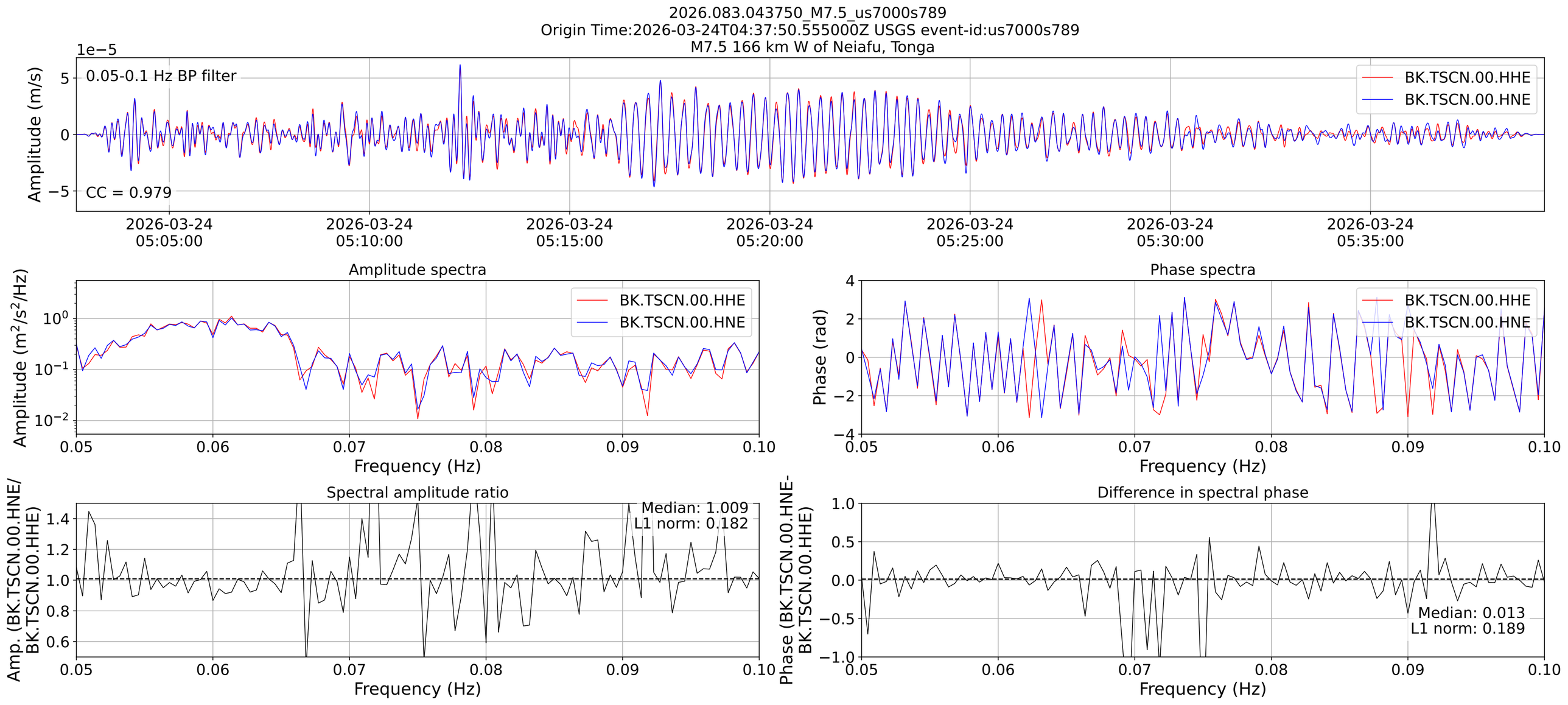

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.975
Amplitude (m/s)
BK.TOLH.00.HHN
BK.TOLH.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNN/ BK.TOLH.00.HHN)
Median: 1.019
L1 norm: 0.217
Difference in spectral phase
Phase (BK.TOLH.00.HNN- BK.TOLH.00.HHN)
Median: -0.004
L1 norm: 0.210

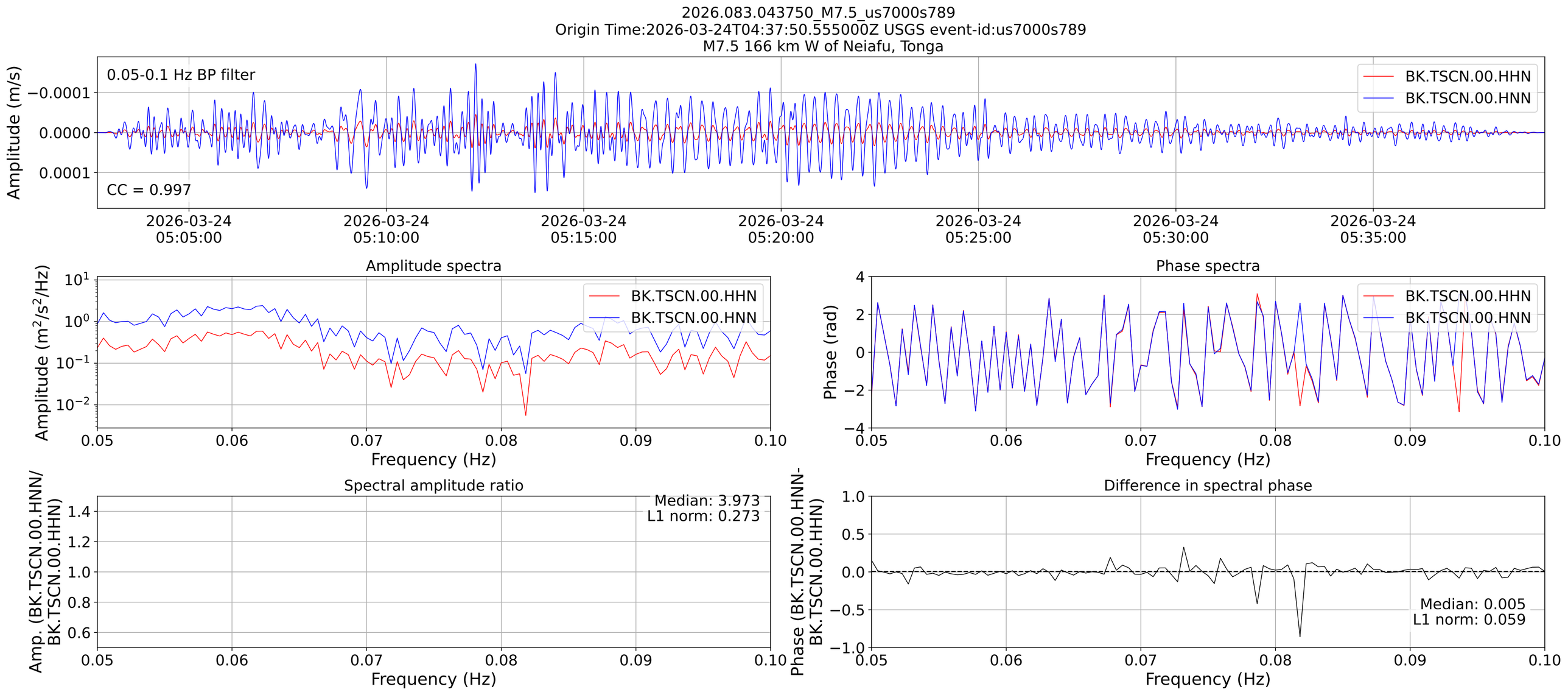

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.990
Amplitude (m/s)
BK.TOLH.00.HHZ
BK.TOLH.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TOLH.00.HNZ/ BK.TOLH.00.HHZ)
Median: 1.014
L1 norm: 0.190
Difference in spectral phase
Phase (BK.TOLH.00.HNZ- BK.TOLH.00.HHZ)
Median: 0.003
L1 norm: 0.190

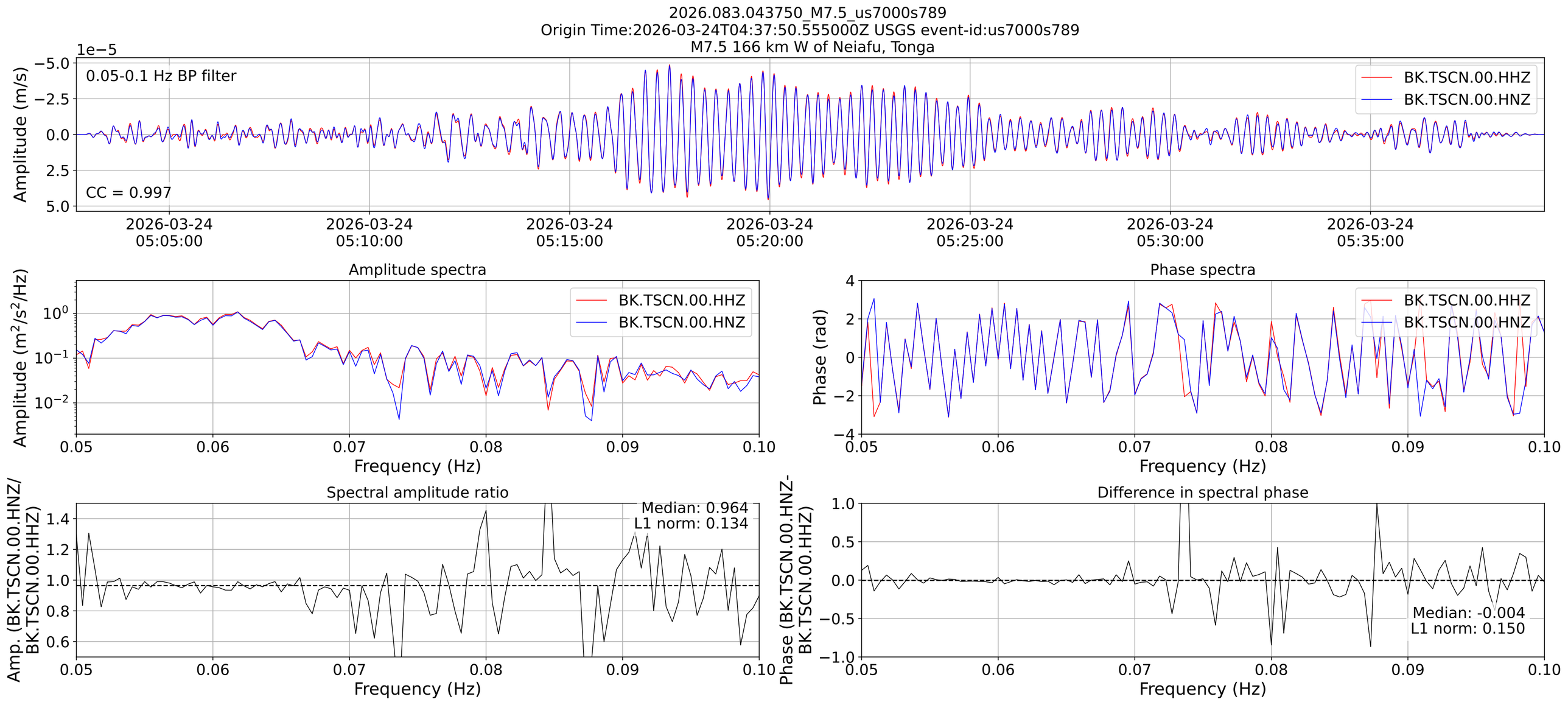

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.967
Amplitude (m/s)
BK.TRIN.01.HHE
BK.TRIN.01.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 1.044
L1 norm: 0.254
Amp. (BK.TRIN.01.HNE/ BK.TRIN.01.HHE)
Difference in spectral phase
Median: 0.011
L1 norm: 0.235
Phase (BK.TRIN.01.HNE- BK.TRIN.01.HHE)

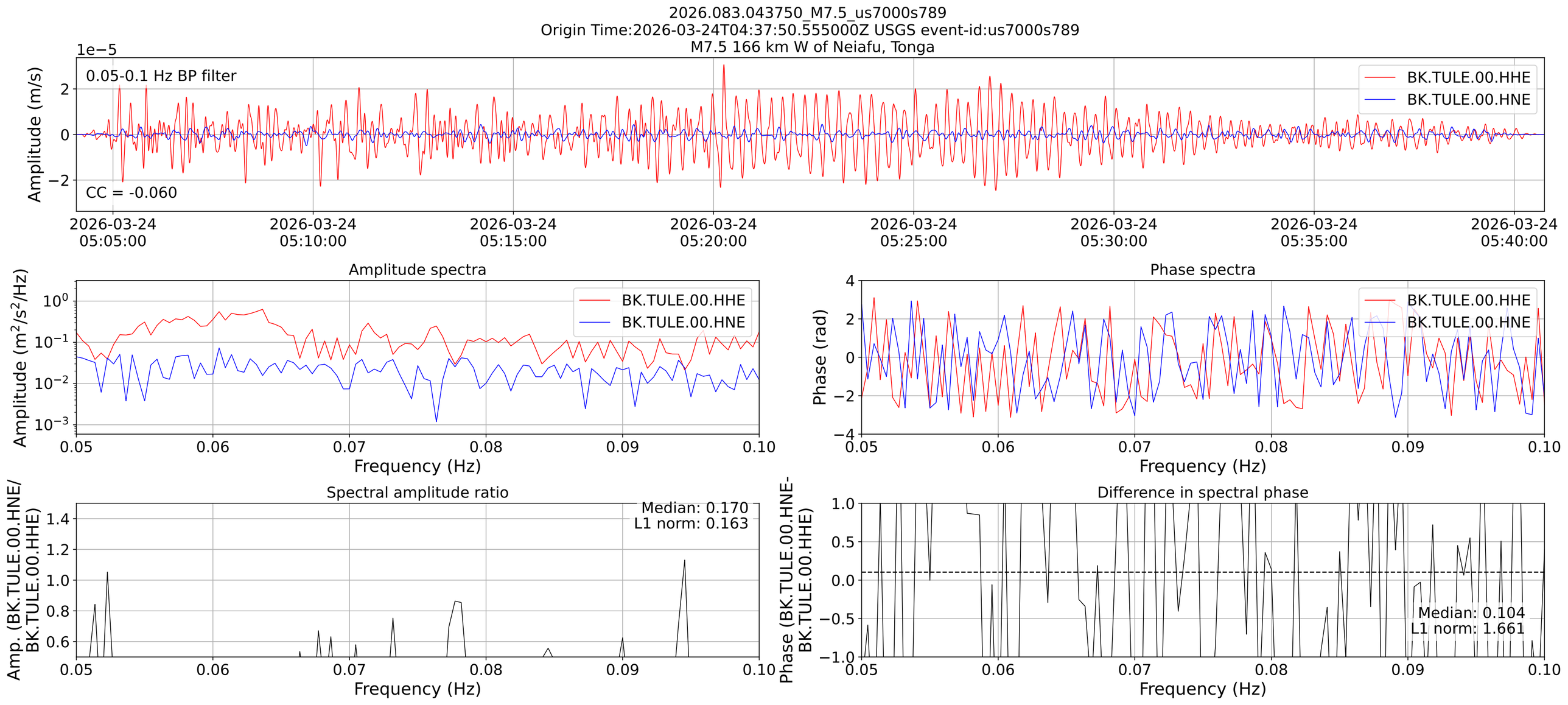

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.964
Amplitude (m/s)
BK.TRIN.01.HHN
BK.TRIN.01.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TRIN.01.HNN/ BK.TRIN.01.HHN)
Median: 0.994
L1 norm: 0.224
Difference in spectral phase
Phase (BK.TRIN.01.HNN- BK.TRIN.01.HHN)
Median: -0.021
L1 norm: 0.212

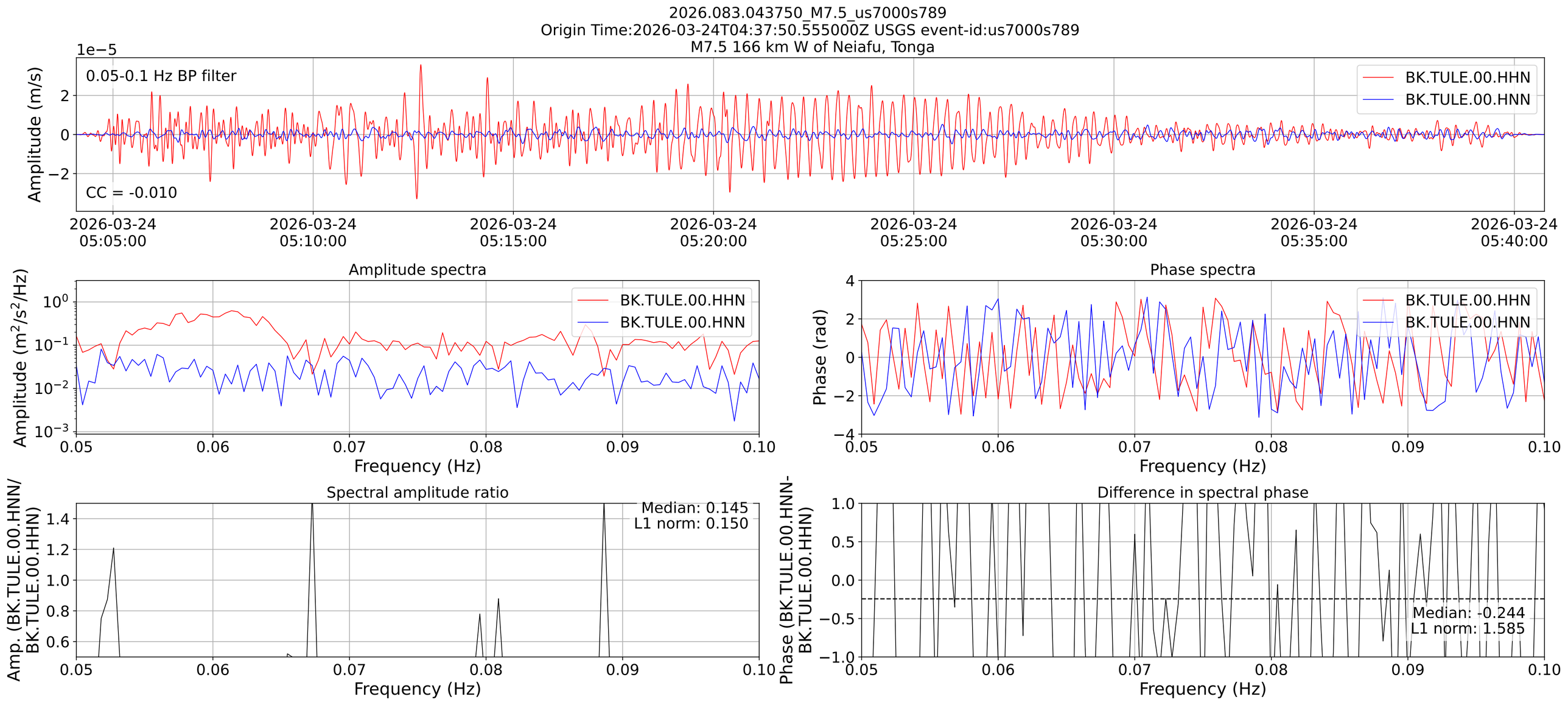

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.TRIN.01.HHZ
BK.TRIN.01.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TRIN.01.HNZ/ BK.TRIN.01.HHZ)
Median: 1.010
L1 norm: 0.369
Difference in spectral phase
Phase (BK.TRIN.01.HNZ- BK.TRIN.01.HHZ)
Median: -0.036
L1 norm: 0.187

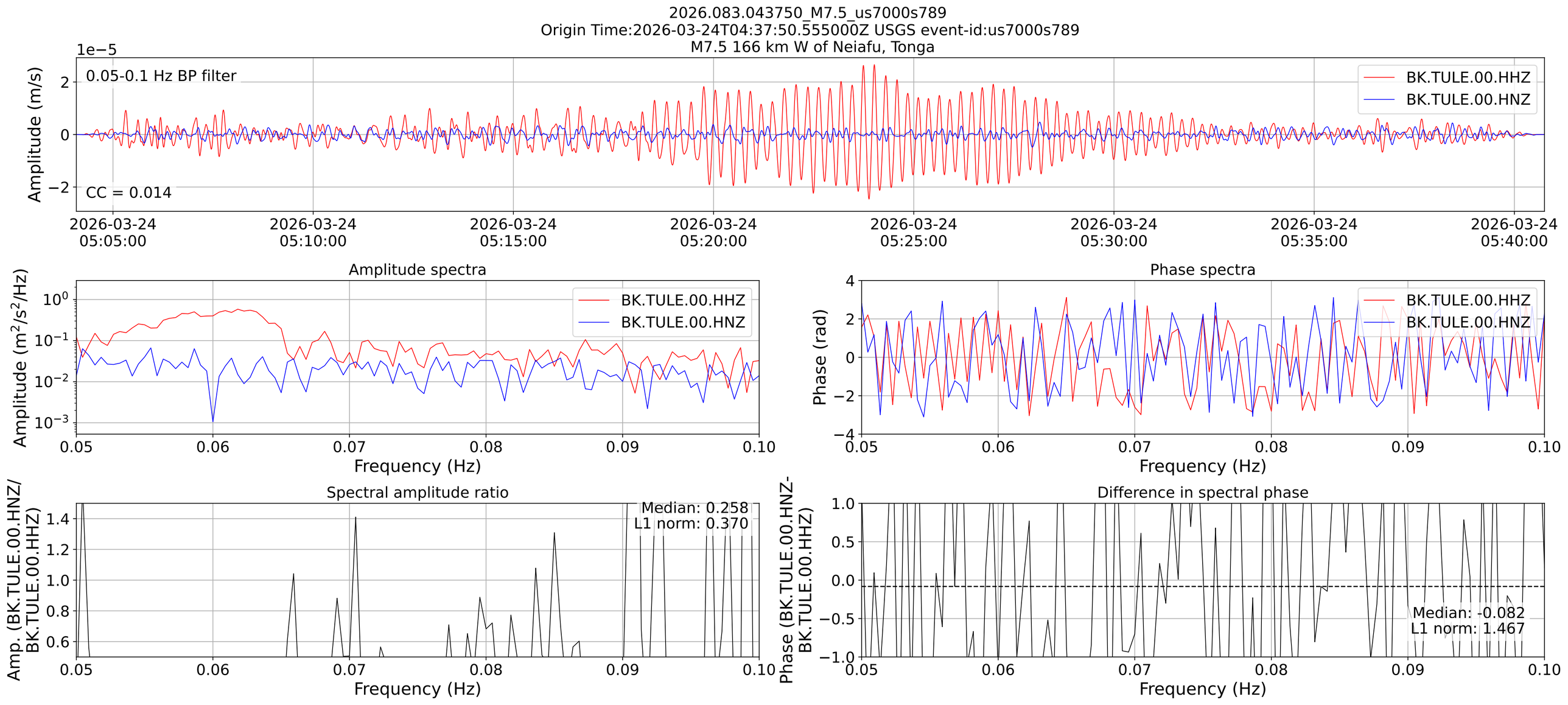

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.979
Amplitude (m/s)
BK.TSCN.00.HHE
BK.TSCN.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s⁴/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TSCN.00.HNE/ BK.TSCN.00.HHE)
Median: 1.009
L1 norm: 0.182
Difference in spectral phase
Phase (BK.TSCN.00.HNE- BK.TSCN.00.HHE)
Median: 0.013
L1 norm: 0.189

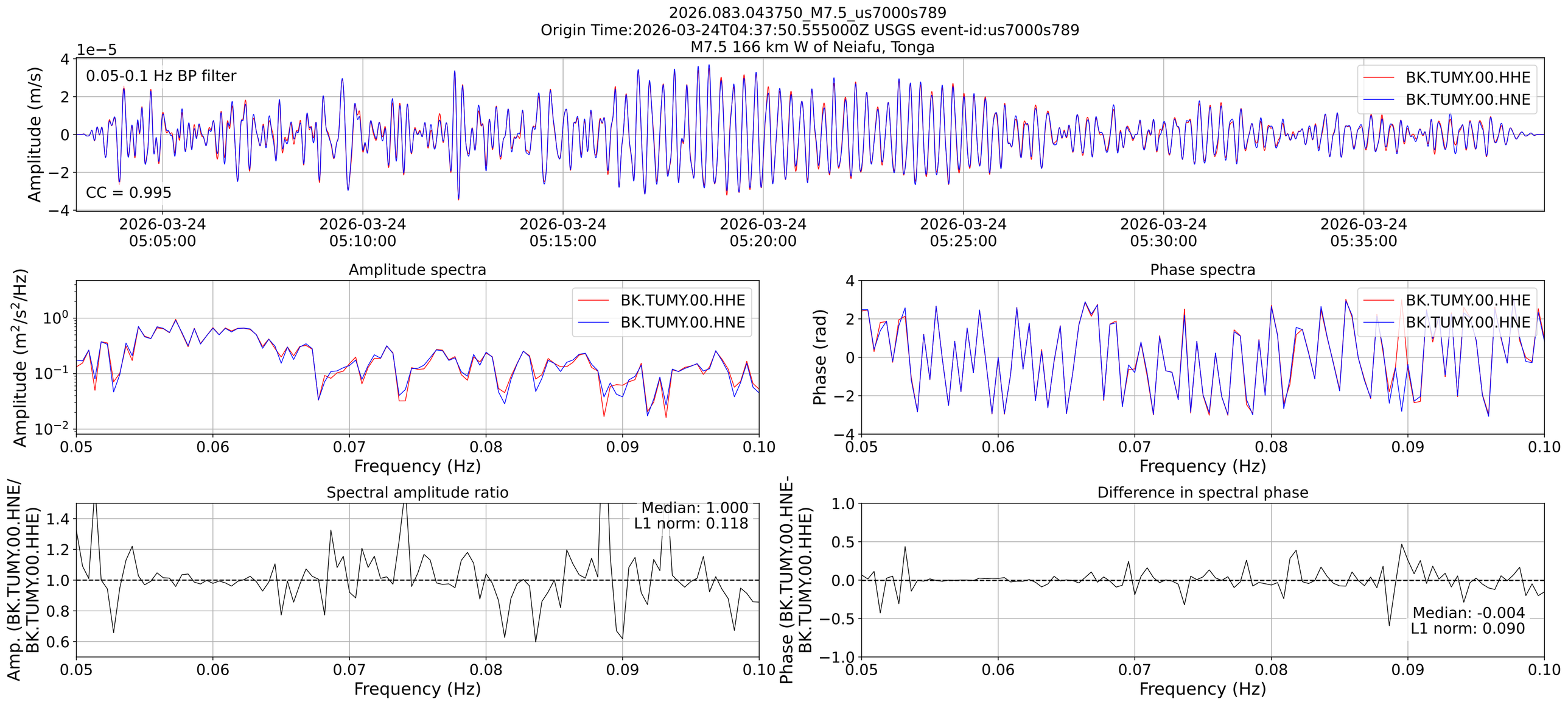

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.997
BK.TSCN.00.HHN
BK.TSCN.00.HNN
Amplitude (m/s)
−0.0001
0.0000
0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TSCN.00.HNN/ BK.TSCN.00.HHN)
Median: 3.973
L1 norm: 0.273
Difference in spectral phase
Phase (BK.TSCN.00.HNN- BK.TSCN.00.HHN)
Median: 0.005
L1 norm: 0.059

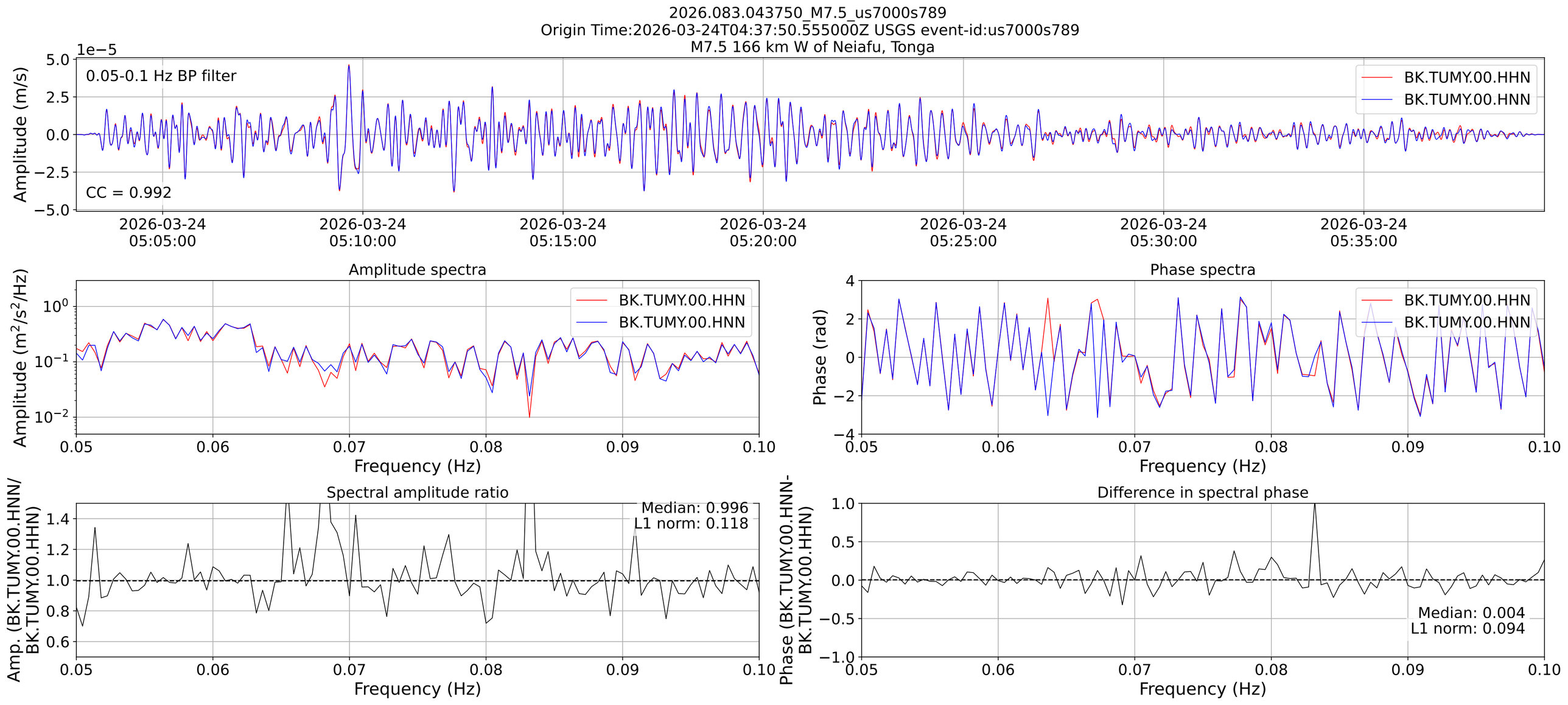

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.TSCN.00.HHZ
BK.TSCN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TSCN.00.HNZ/ BK.TSCN.00.HHZ)
Median: 0.964
L1 norm: 0.134
Difference in spectral phase
Phase (BK.TSCN.00.HNZ- BK.TSCN.00.HHZ)
Median: -0.004
L1 norm: 0.150

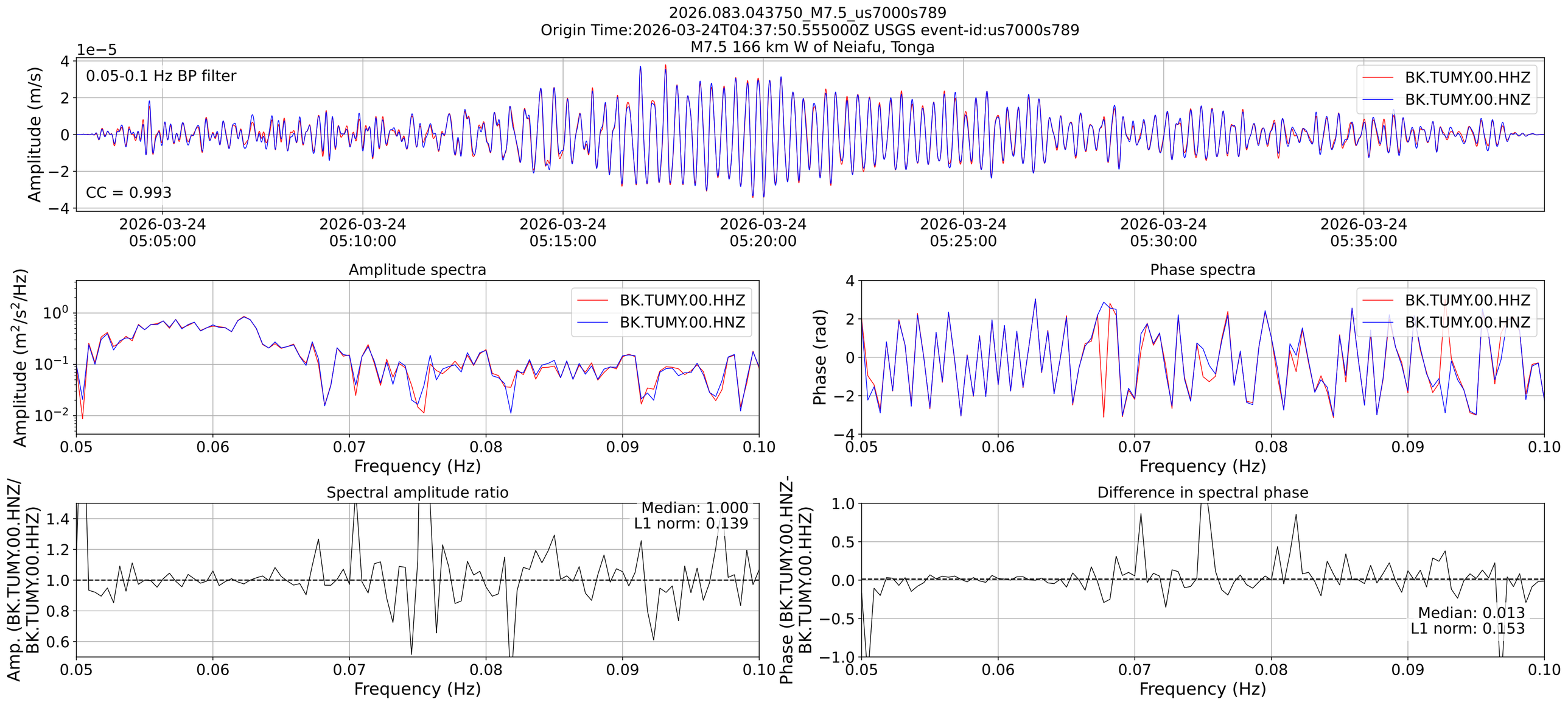

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = -0.060
Amplitude (m/s)
BK.TULE.00.HHE
BK.TULE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNE/ BK.TULE.00.HHE)
Median: 0.170
L1 norm: 0.163
Difference in spectral phase
Phase (BK.TULE.00.HNE- BK.TULE.00.HHE)
Median: 0.104
L1 norm: 1.661

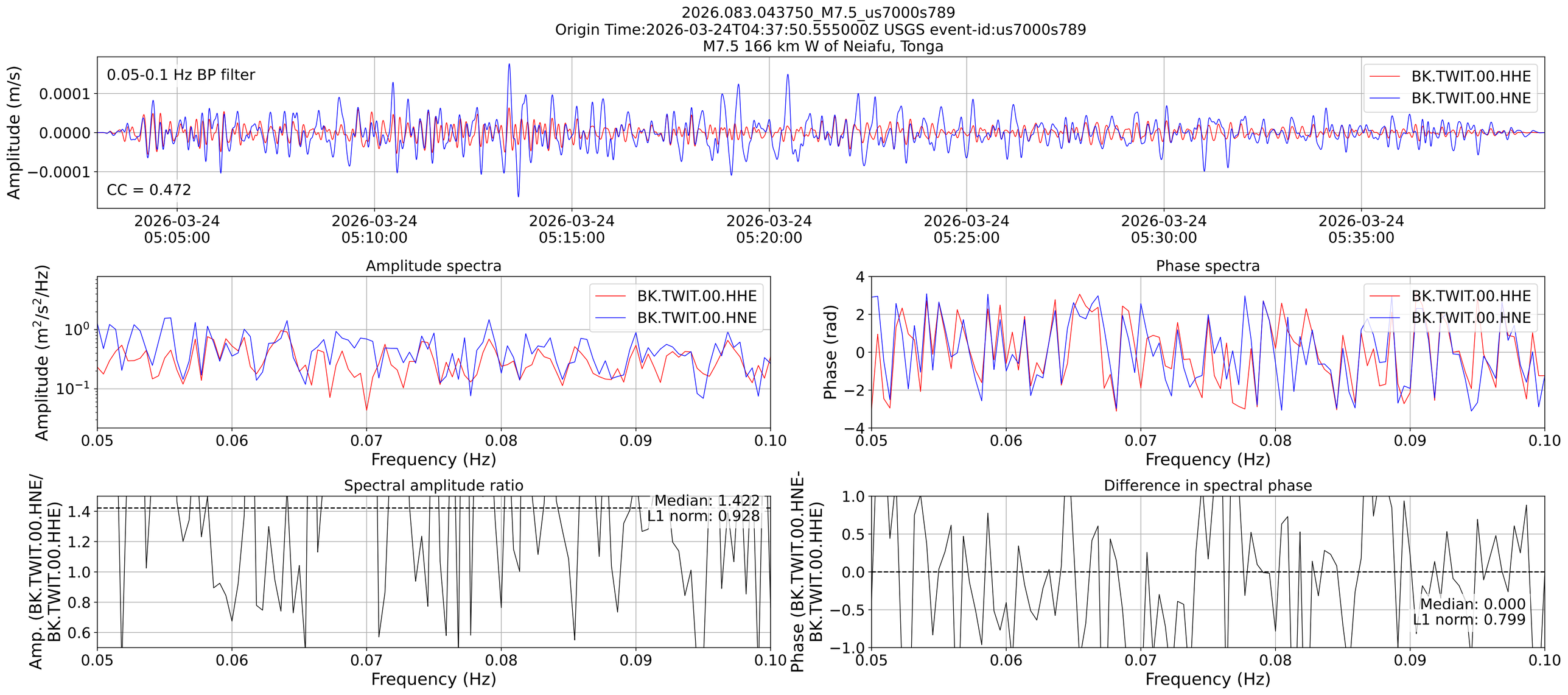

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = -0.010
Amplitude (m/s)
BK.TULE.00.HHN
BK.TULE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNN/ BK.TULE.00.HHN)
Median: 0.145
L1 norm: 0.150
Difference in spectral phase
Phase (BK.TULE.00.HNN- BK.TULE.00.HHN)
Median: -0.244
L1 norm: 1.585

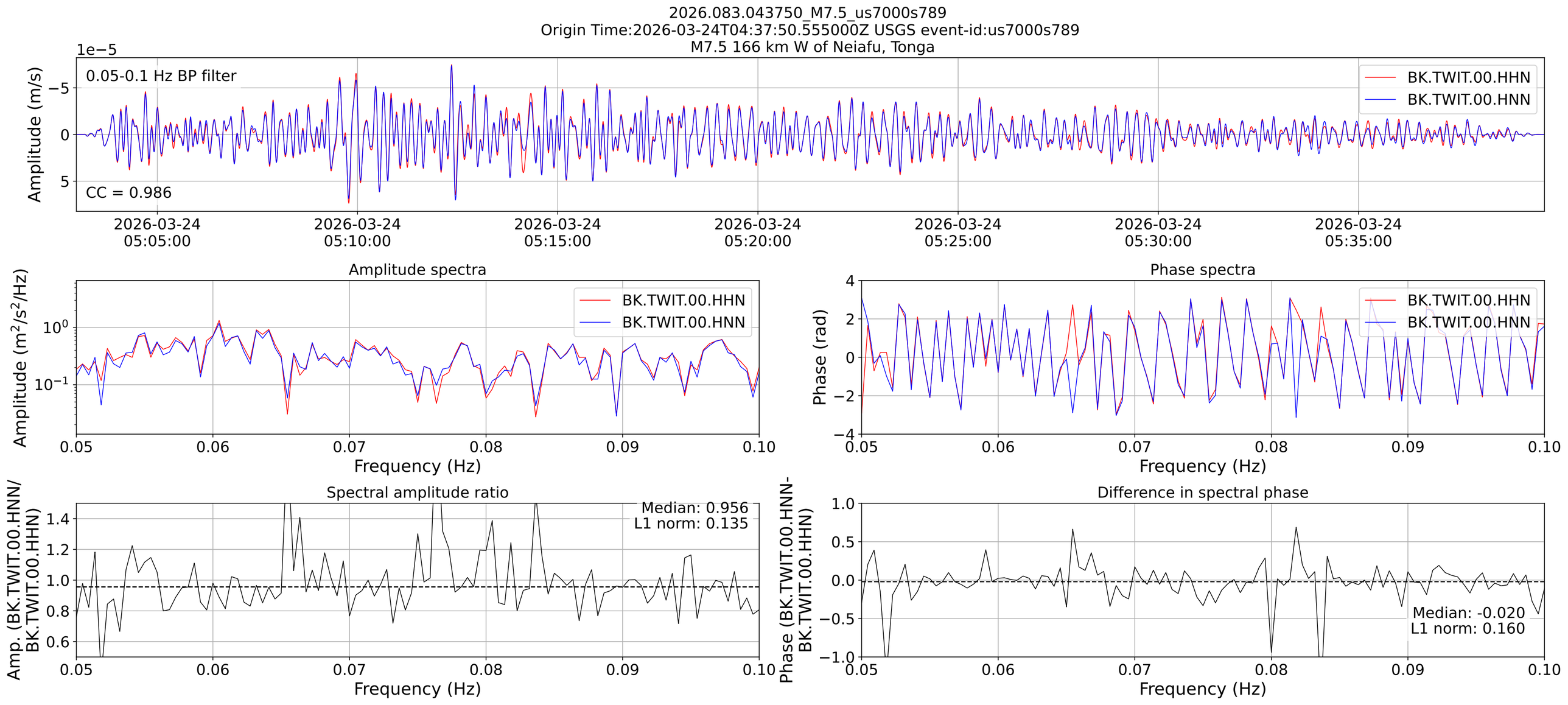

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.014
Amplitude (m/s)
BK.TULE.00.HHZ
BK.TULE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TULE.00.HNZ/ BK.TULE.00.HHZ)
Median: 0.258
L1 norm: 0.370
Difference in spectral phase
Phase (BK.TULE.00.HNZ- BK.TULE.00.HHZ)
Median: -0.082
L1 norm: 1.467

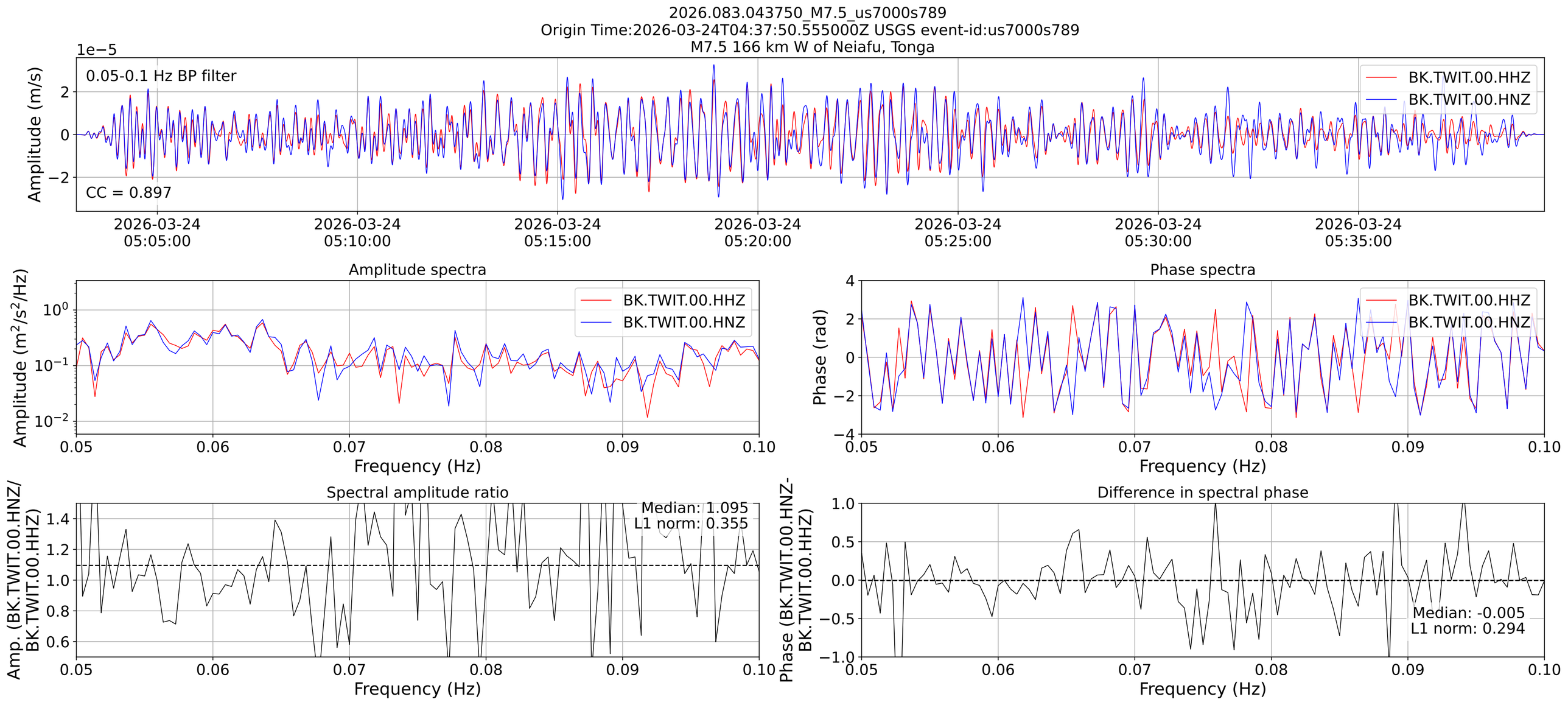

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
BK.TUMY.00.HHE
BK.TUMY.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNE/ BK.TUMY.00.HHE)
Median: 1.000
L1 norm: 0.118
Difference in spectral phase
Phase (BK.TUMY.00.HNE- BK.TUMY.00.HHE)
Median: -0.004
L1 norm: 0.090

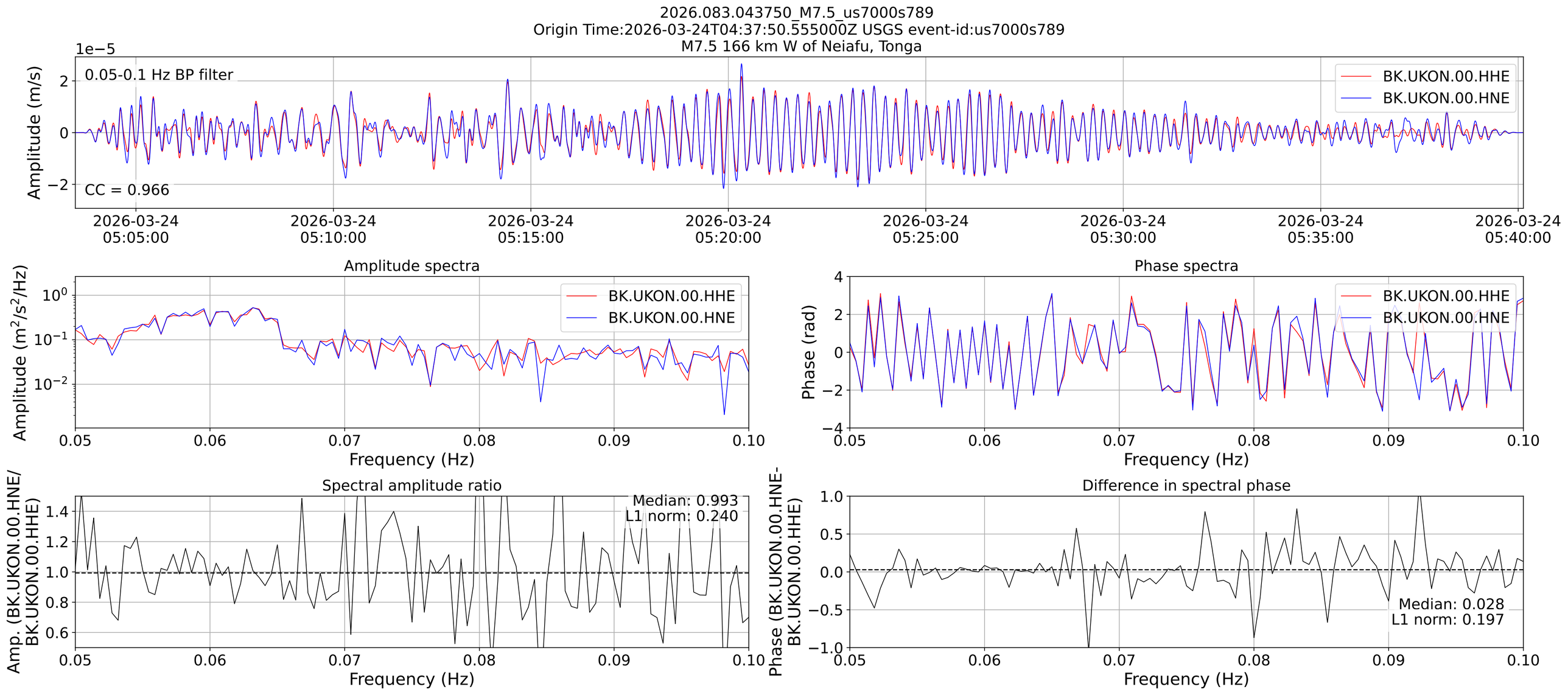

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
BK.TUMY.00.HHN
BK.TUMY.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNN/ BK.TUMY.00.HHN)
Median: 0.996
L1 norm: 0.118
Difference in spectral phase
Phase (BK.TUMY.00.HNN- BK.TUMY.00.HHN)
Median: 0.004
L1 norm: 0.094

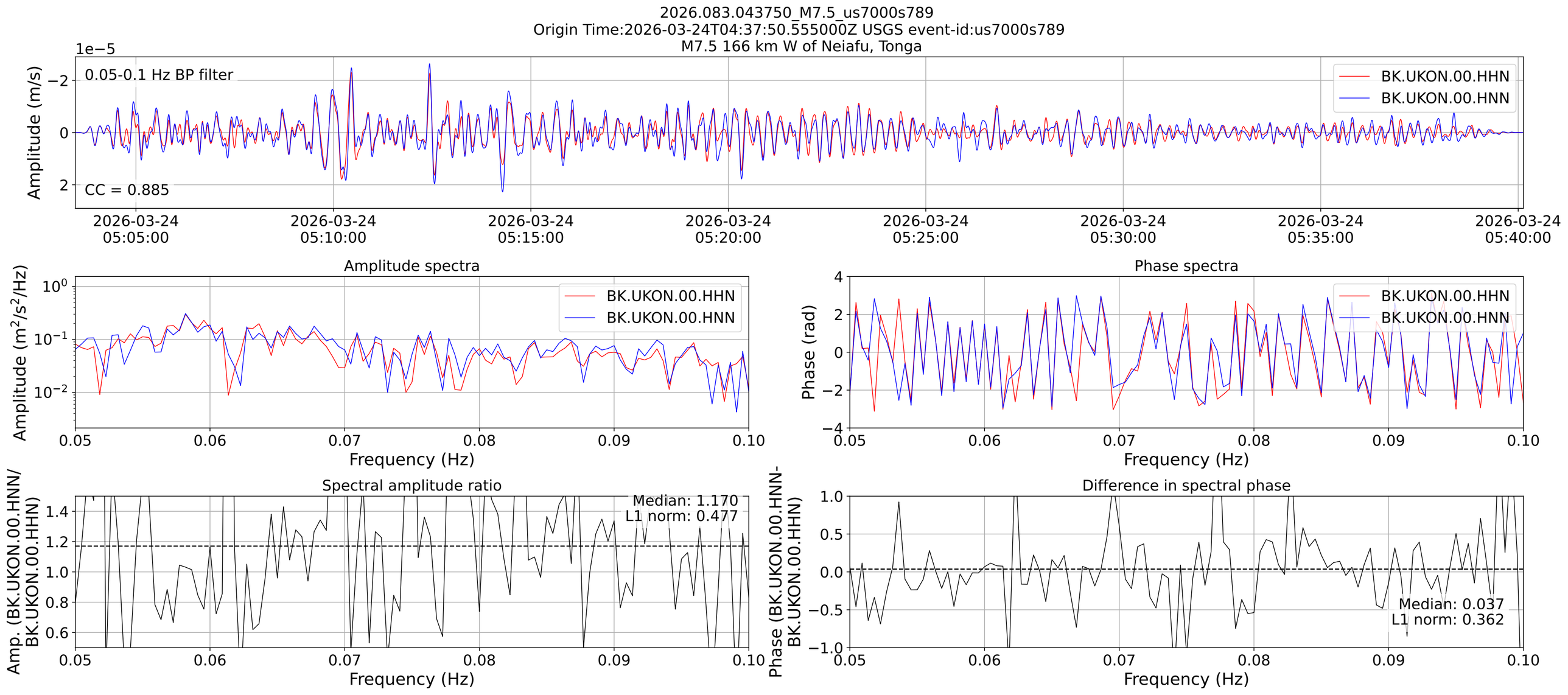

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.TUMY.00.HHZ
BK.TUMY.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TUMY.00.HNZ/ BK.TUMY.00.HHZ)
Median: 1.000
L1 norm: 0.139
Difference in spectral phase
Phase (BK.TUMY.00.HNZ-BK.TUMY.00.HHZ)
Median: 0.013
L1 norm: 0.153

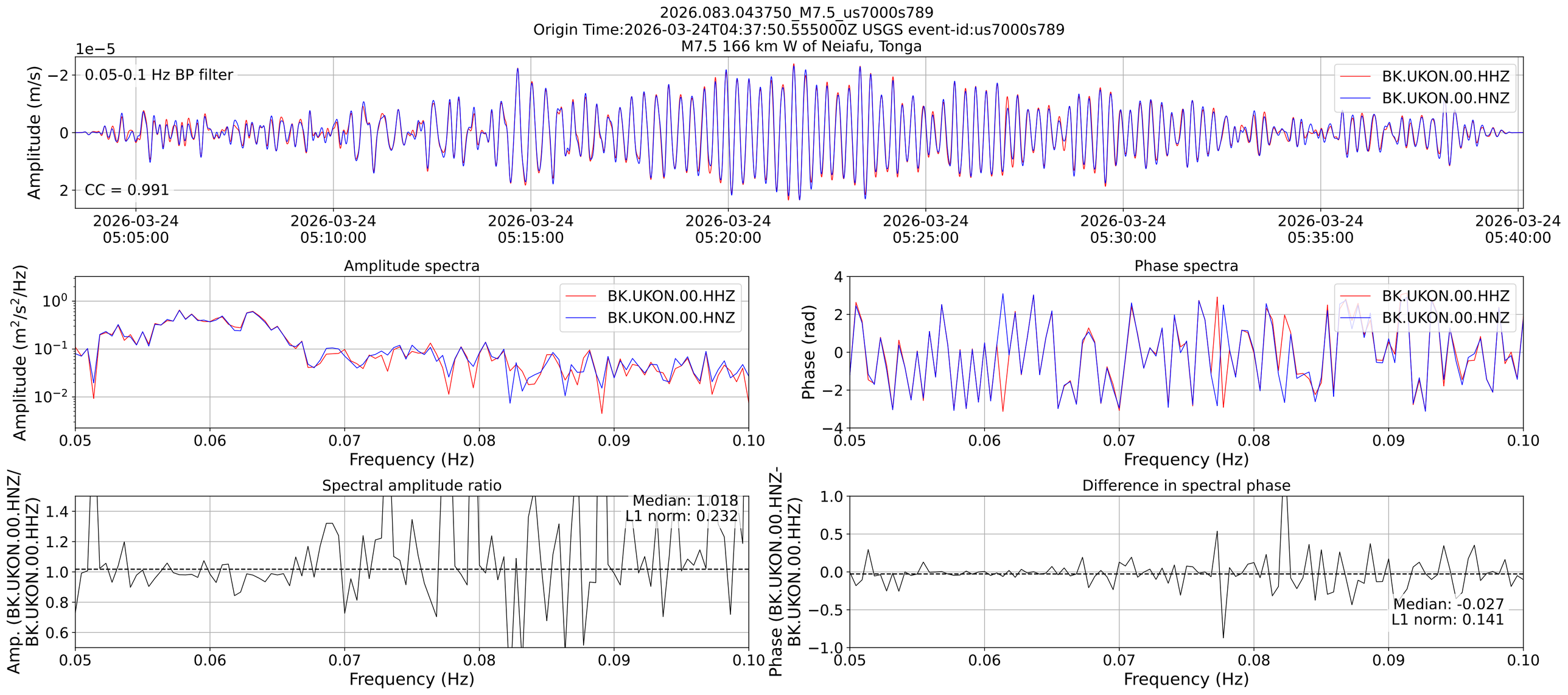

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.472
BK.TWIT.00.HHE
BK.TWIT.00.HNE
Amplitude (m/s)
0.0001
0.0000
−0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNE/ BK.TWIT.00.HHE)
Median: 1.422
L1 norm: 0.928
Difference in spectral phase
Phase (BK.TWIT.00.HNE- BK.TWIT.00.HHE)
Median: 0.000
L1 norm: 0.799

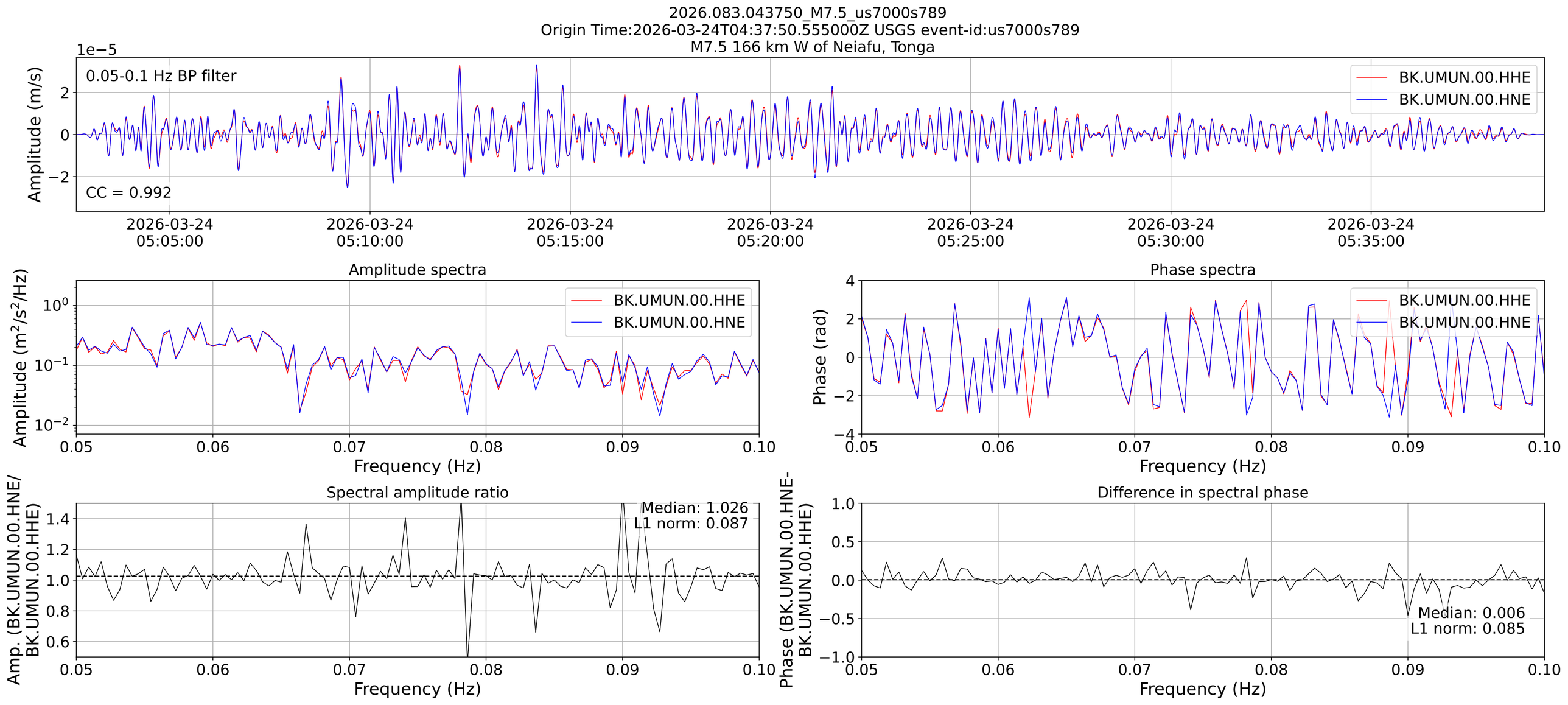

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.TWIT.00.HHN
BK.TWIT.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNN/ BK.TWIT.00.HHN)
Median: 0.956
L1 norm: 0.135
Difference in spectral phase
Phase (BK.TWIT.00.HNN- BK.TWIT.00.HHN)
Median: -0.020
L1 norm: 0.160

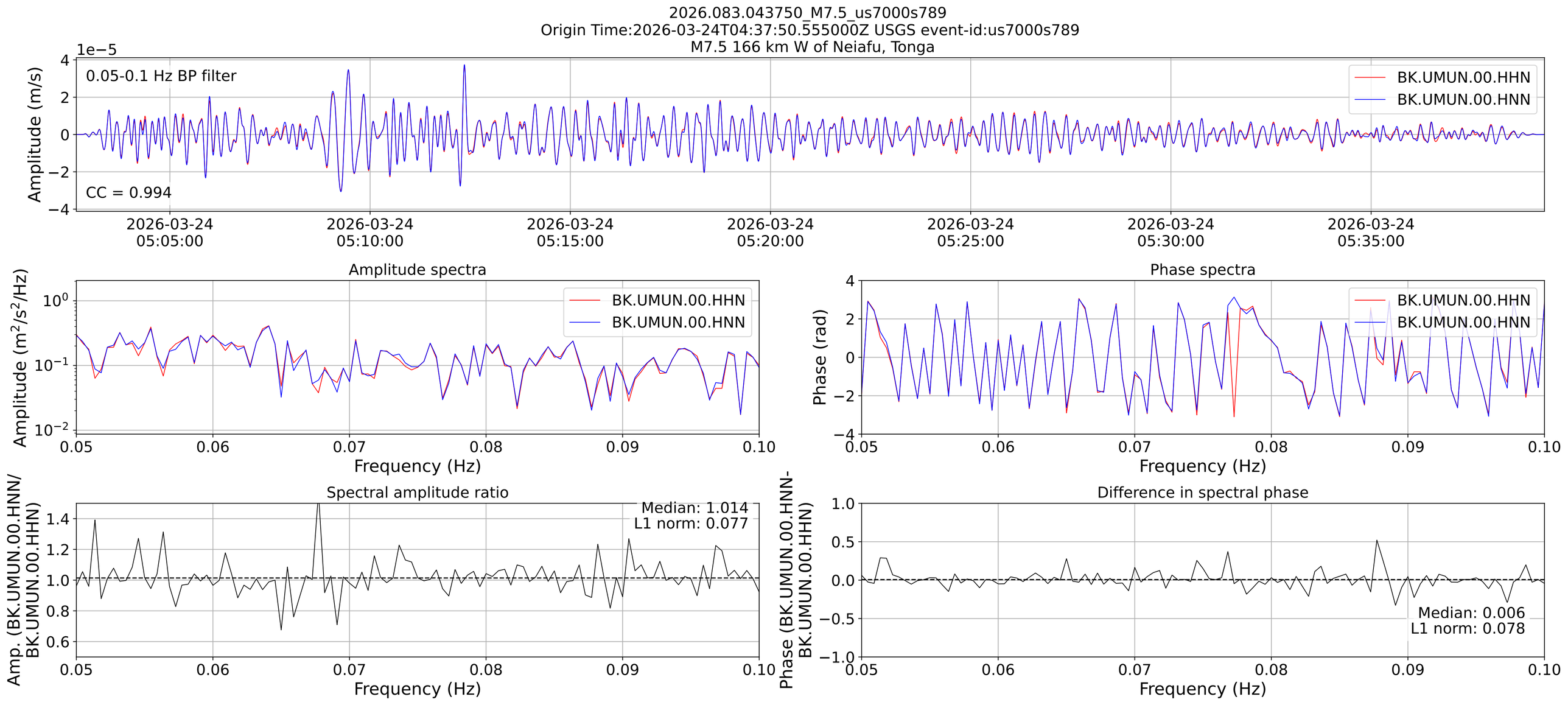

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.897
Amplitude (m/s)
BK.TWIT.00.HHZ
BK.TWIT.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.TWIT.00.HNZ/ BK.TWIT.00.HHZ)
Median: 1.095
L1 norm: 0.355
Difference in spectral phase
Phase (BK.TWIT.00.HNZ- BK.TWIT.00.HHZ)
Median: -0.005
L1 norm: 0.294

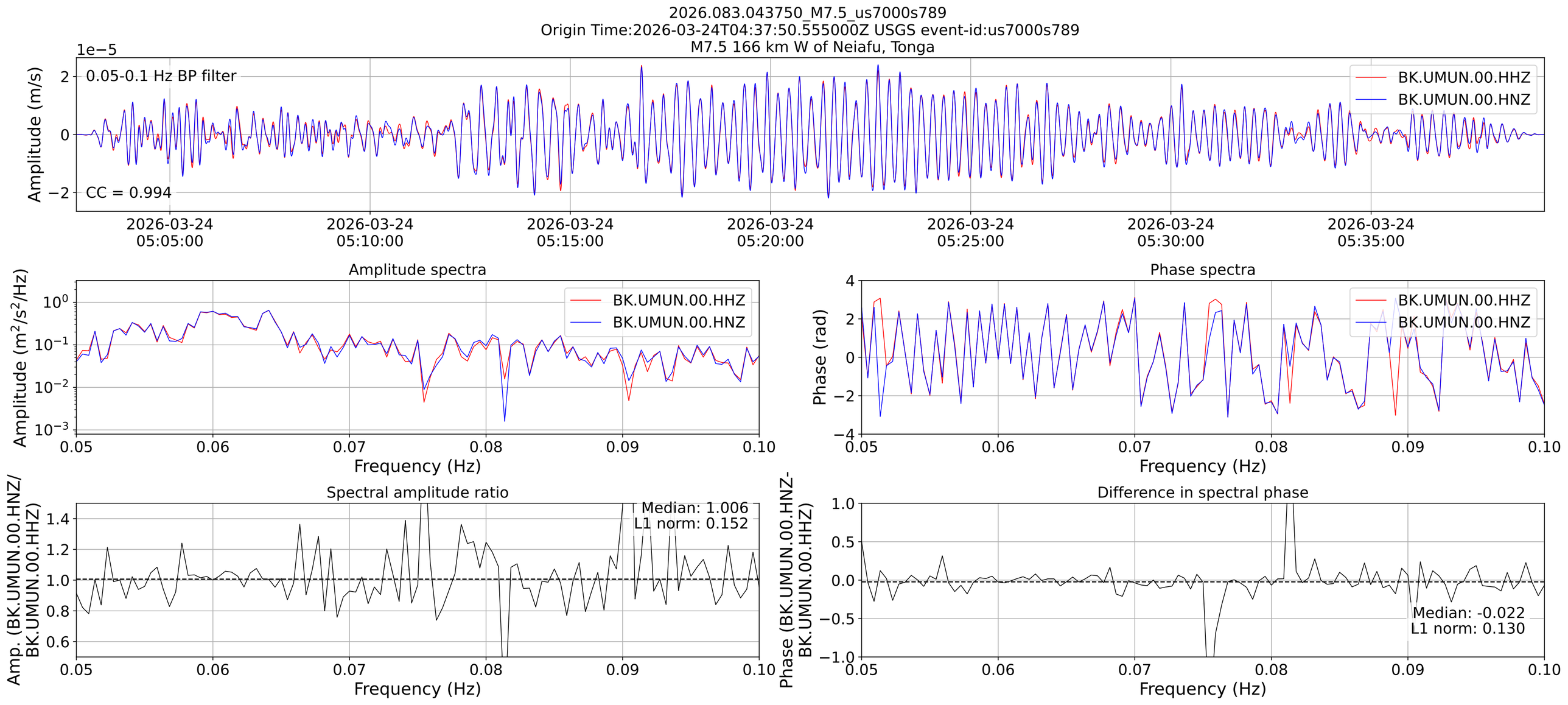

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.966
Amplitude (m/s)
BK.UKON.00.HHE
BK.UKON.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNE/ BK.UKON.00.HHE)
Median: 0.993
L1 norm: 0.240
Difference in spectral phase
Phase (BK.UKON.00.HNE- BK.UKON.00.HHE)
Median: 0.028
L1 norm: 0.197

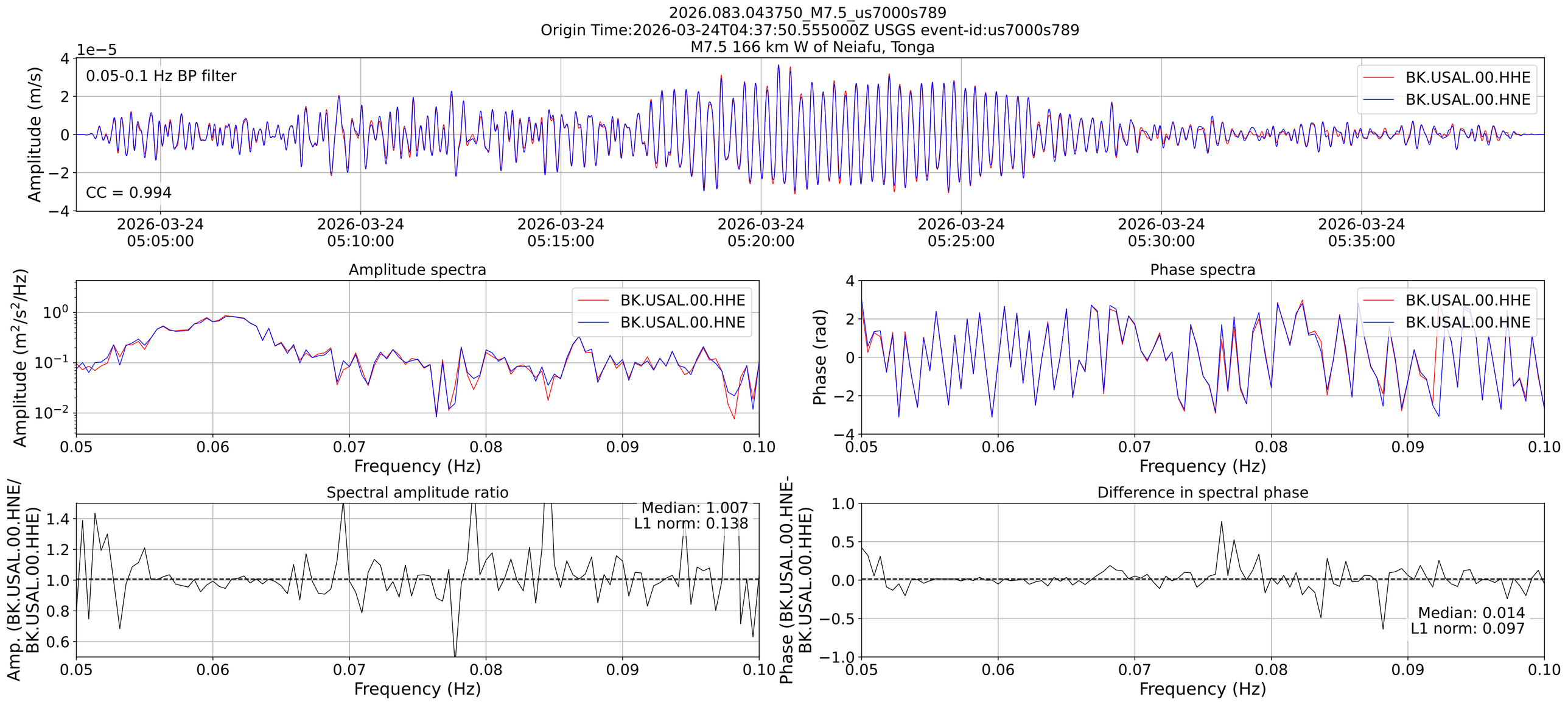

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.885
Amplitude (m/s)
BK.UKON.00.HHN
BK.UKON.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNN/ BK.UKON.00.HHN)
Median: 1.170
L1 norm: 0.477
Difference in spectral phase
Phase (BK.UKON.00.HNN-BK.UKON.00.HHN)
Median: 0.037
L1 norm: 0.362

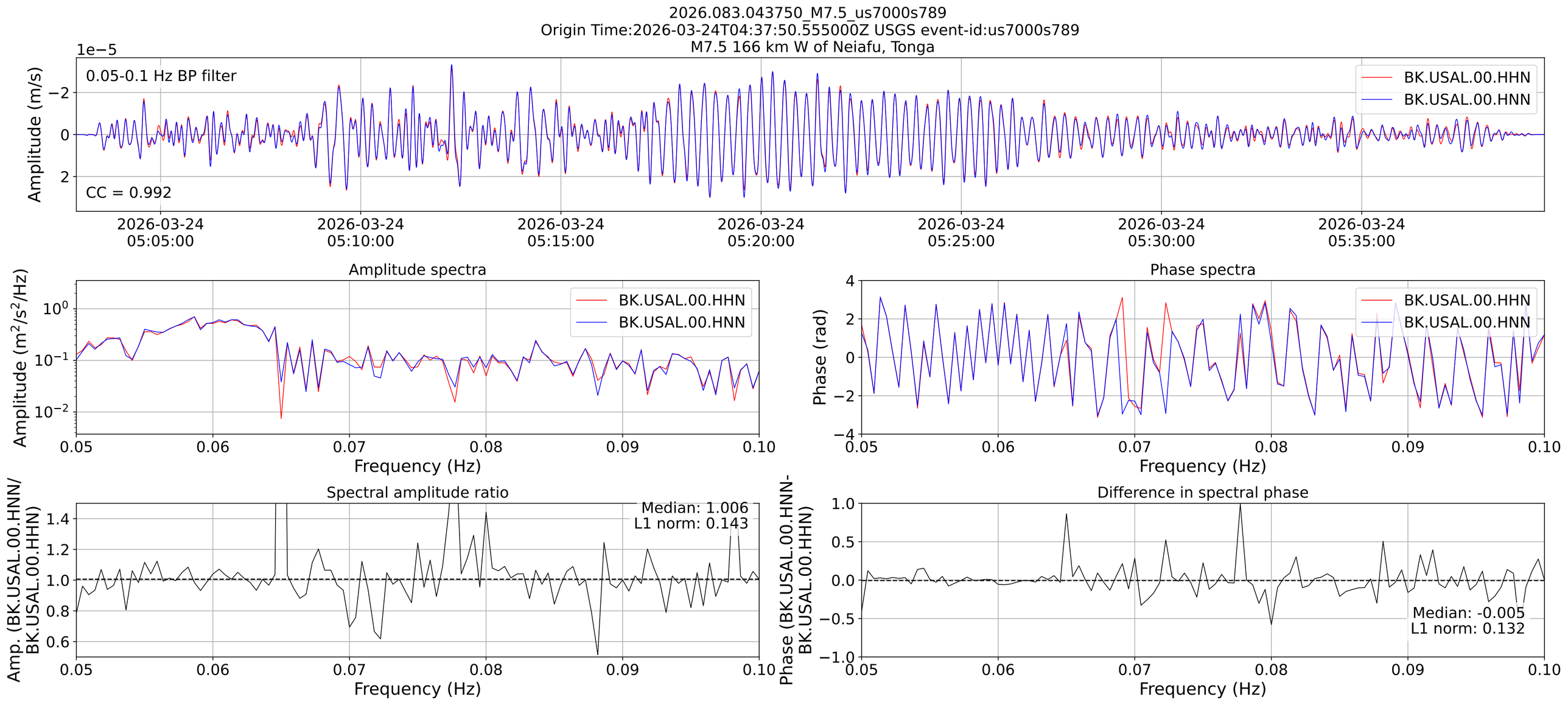

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.UKON.00.HHZ
BK.UKON.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UKON.00.HNZ/ BK.UKON.00.HHZ)
Median: 1.018
L1 norm: 0.232
Difference in spectral phase
Phase (BK.UKON.00.HNZ- BK.UKON.00.HHZ)
Median: -0.027
L1 norm: 0.141

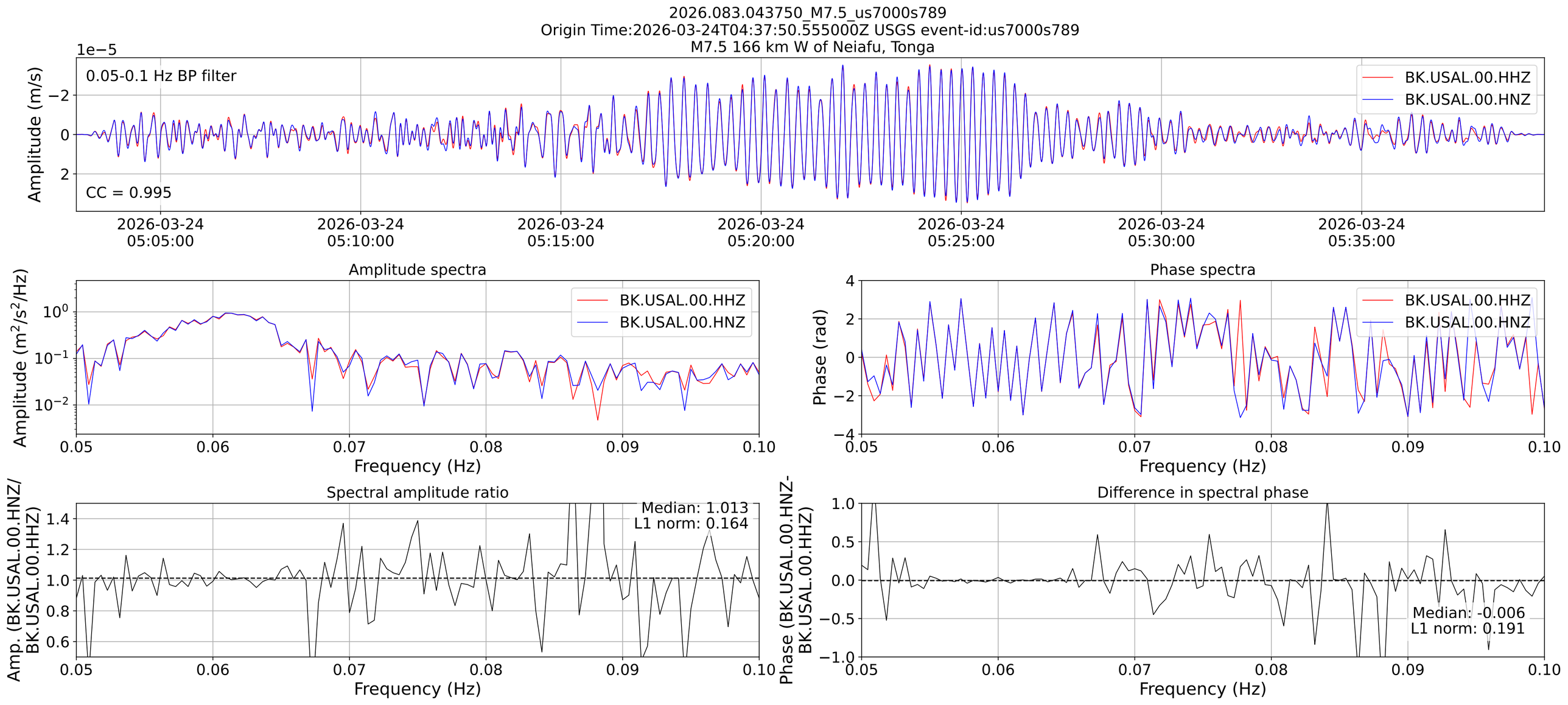

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
BK.UMUN.00.HHE
BK.UMUN.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNE/ BK.UMUN.00.HHE)
Median: 1.026
L1 norm: 0.087
Difference in spectral phase
Phase (BK.UMUN.00.HNE- BK.UMUN.00.HHE)
Median: 0.006
L1 norm: 0.085

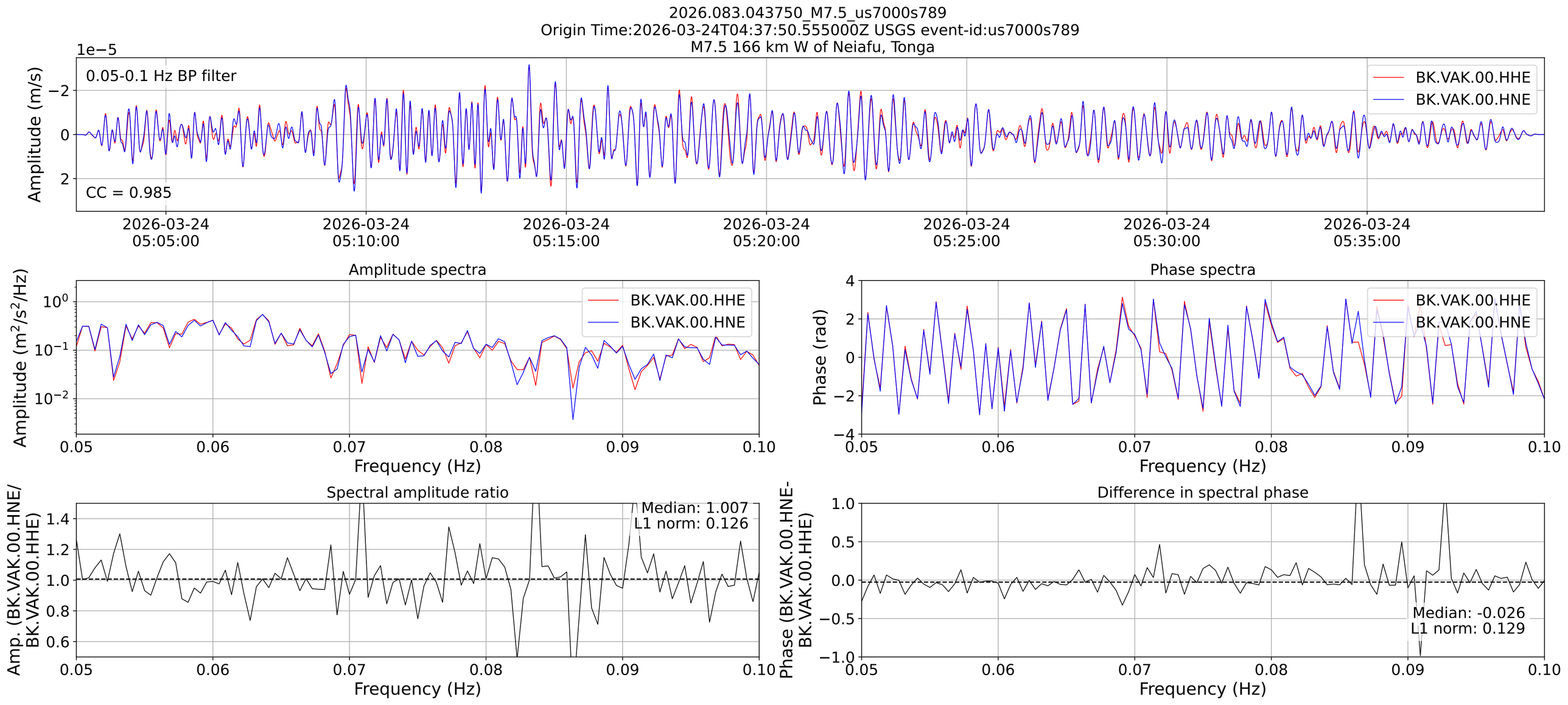

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.994
BK.UMUN.00.HHN
BK.UMUN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNN/ BK.UMUN.00.HHN)
Median: 1.014
L1 norm: 0.077
Difference in spectral phase
Phase (BK.UMUN.00.HNN- BK.UMUN.00.HHN)
Median: 0.006
L1 norm: 0.078

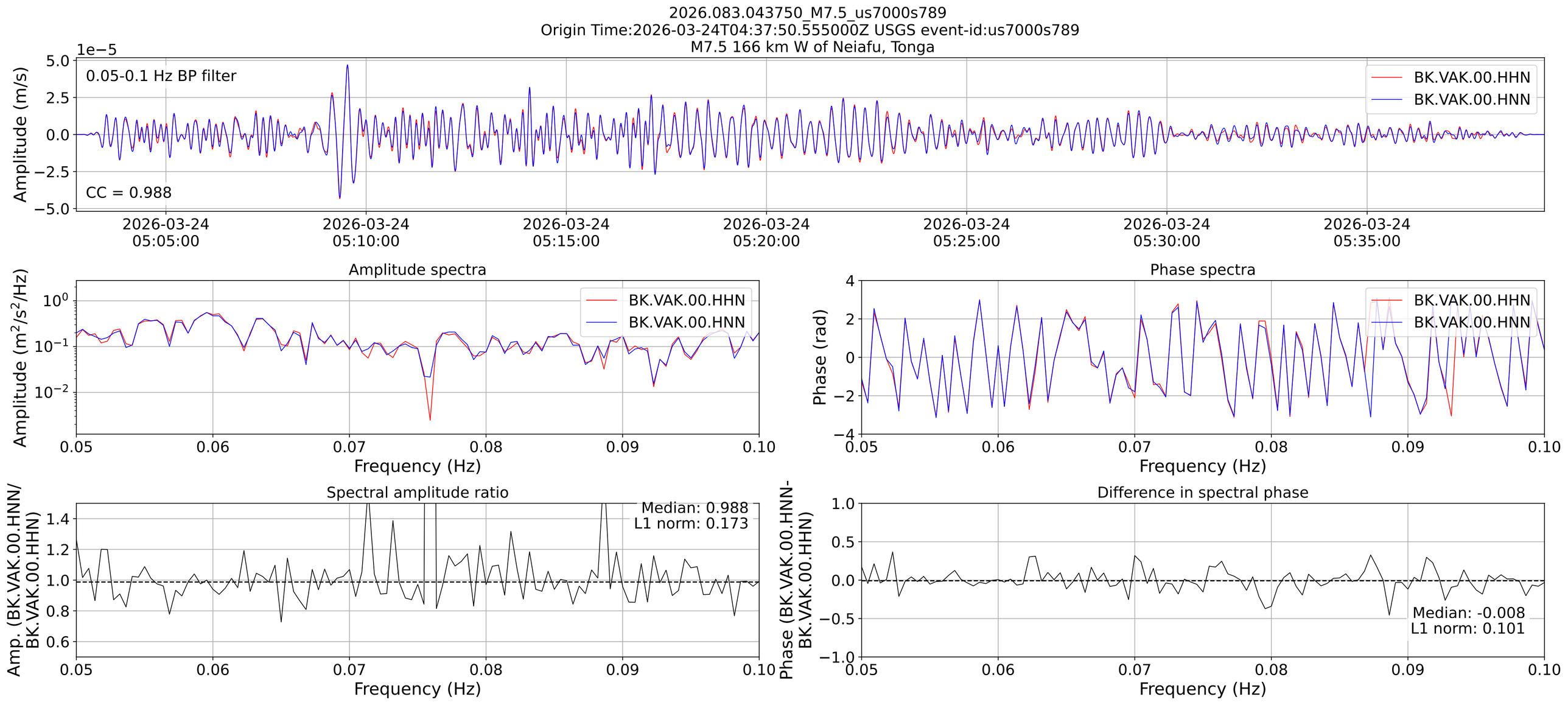

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
Amplitude (m/s)
BK.UMUN.00.HHZ
BK.UMUN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.UMUN.00.HNZ/ BK.UMUN.00.HHZ)
Median: 1.006
L1 norm: 0.152
Difference in spectral phase
Phase (BK.UMUN.00.HNZ- BK.UMUN.00.HHZ)
Median: -0.022
L1 norm: 0.130

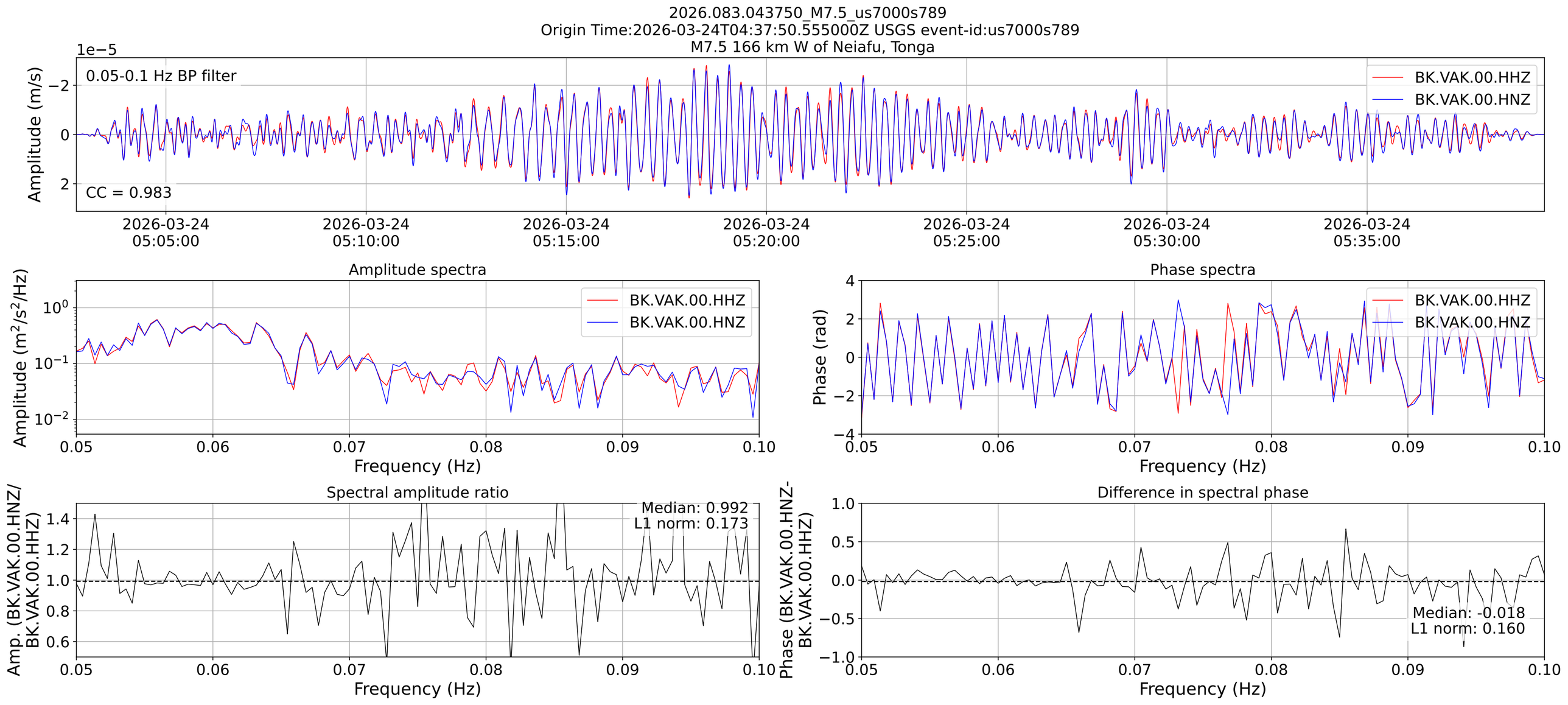

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
BK.USAL.00.HHE
BK.USAL.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNE/ BK.USAL.00.HHE)
Median: 1.007
L1 norm: 0.138
Difference in spectral phase
Phase (BK.USAL.00.HNE- BK.USAL.00.HHE)
Median: 0.014
L1 norm: 0.097

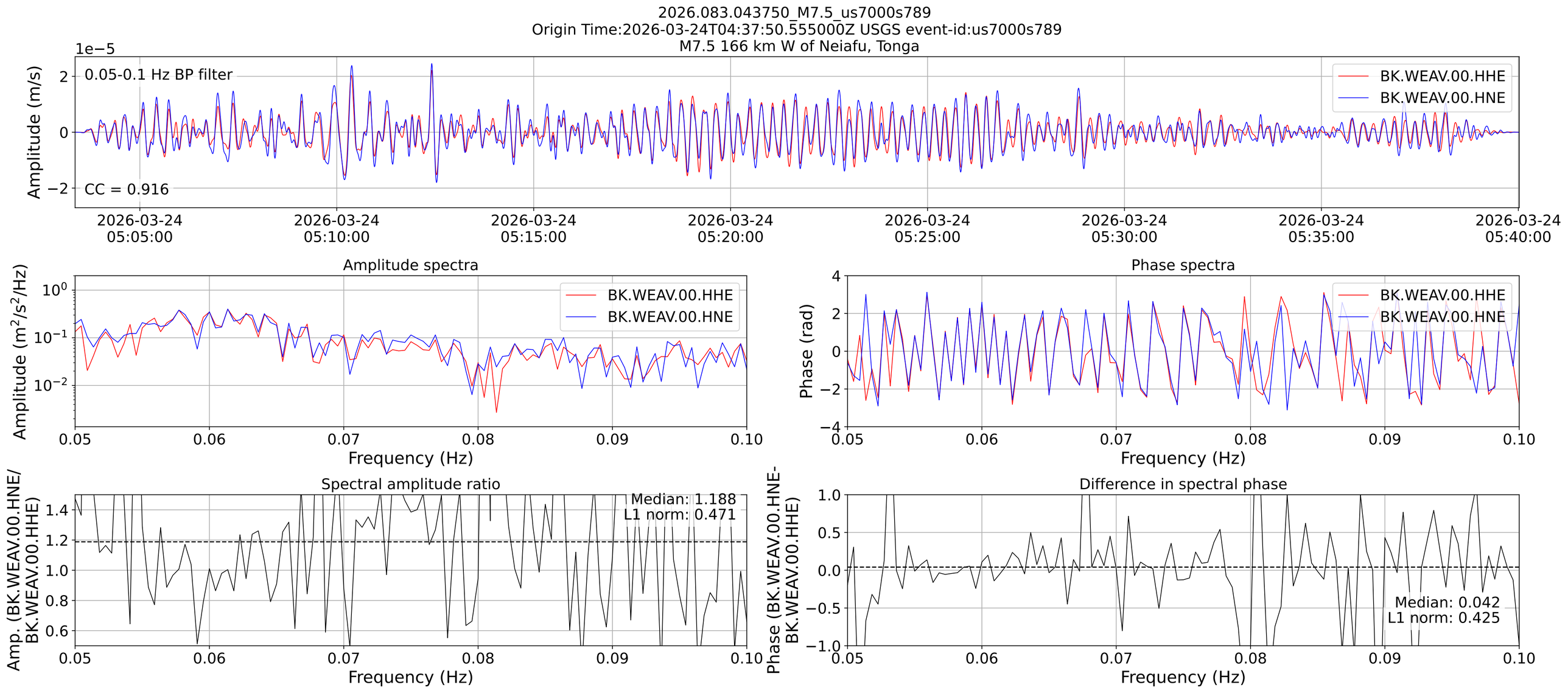

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.USAL.00.HHN
BK.USAL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNN/ BK.USAL.00.HHN)
Median: 1.006
L1 norm: 0.143
Difference in spectral phase
Phase (BK.USAL.00.HNN- BK.USAL.00.HHN)
Median: -0.005
L1 norm: 0.132

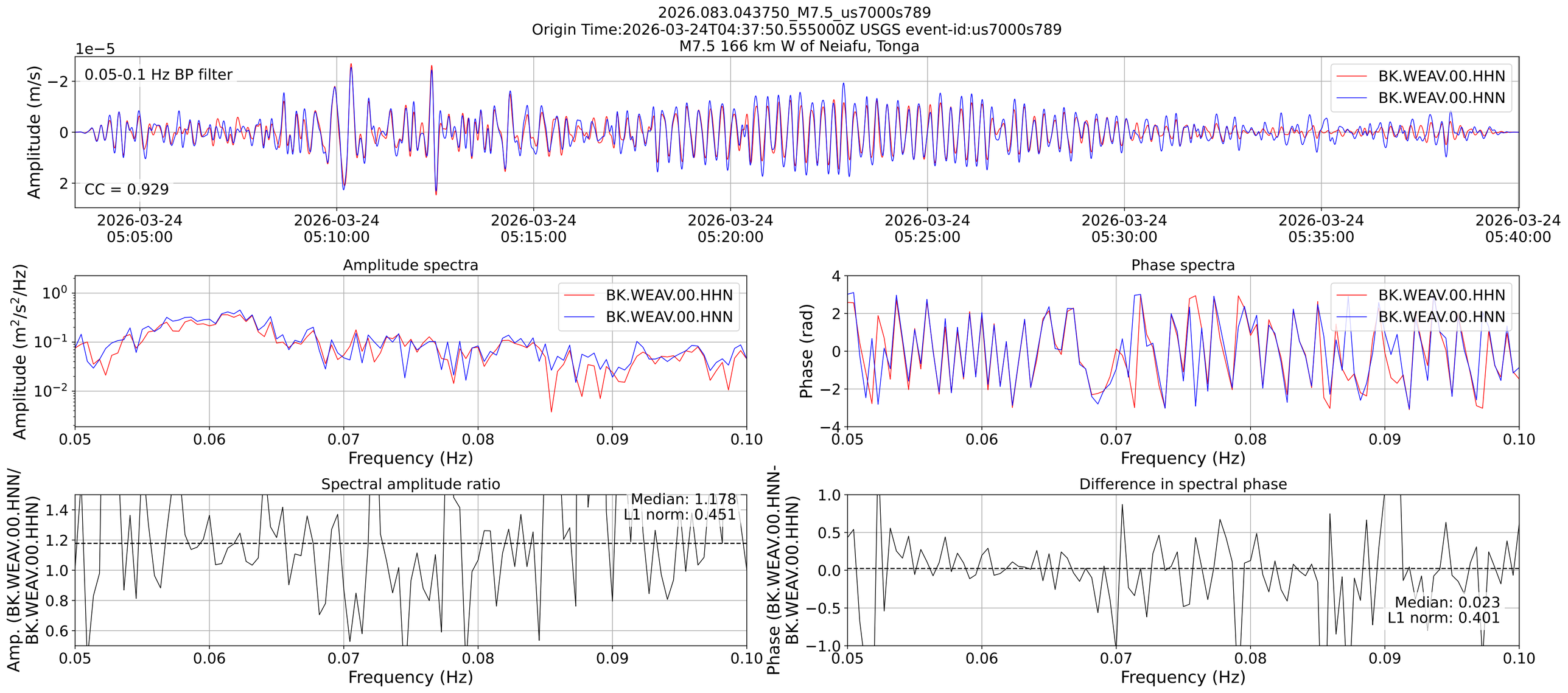

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.995
BK.USAL.00.HHZ
BK.USAL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.USAL.00.HNZ/ BK.USAL.00.HHZ)
Median: 1.013
L1 norm: 0.164
Difference in spectral phase
Phase (BK.USAL.00.HNZ-BK.USAL.00.HHZ)
Median: -0.006
L1 norm: 0.191

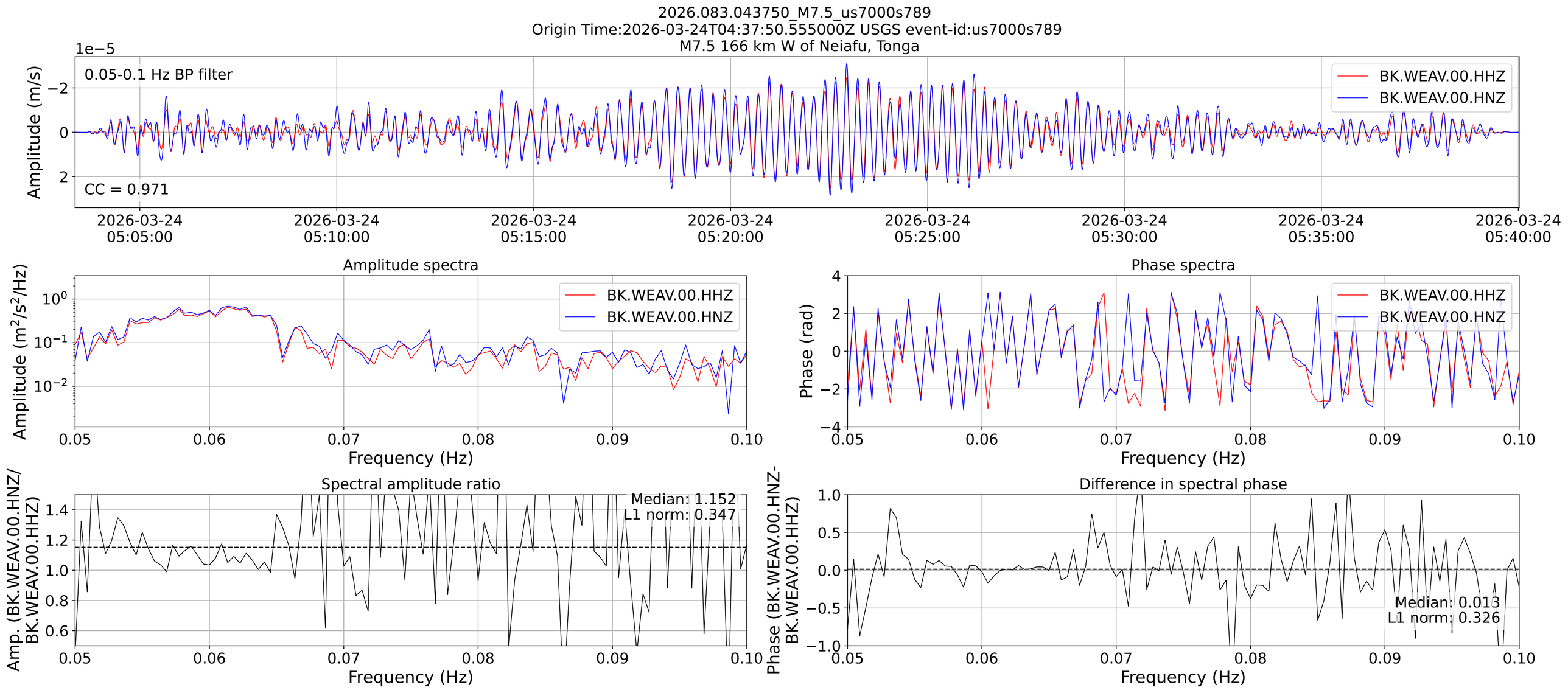

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.985
Amplitude (m/s)
BK.VAK.00.HHE
BK.VAK.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNE/ BK.VAK.00.HHE)
Median: 1.007
L1 norm: 0.126
Difference in spectral phase
Phase (BK.VAK.00.HNE- BK.VAK.00.HHE)
Median: -0.026
L1 norm: 0.129

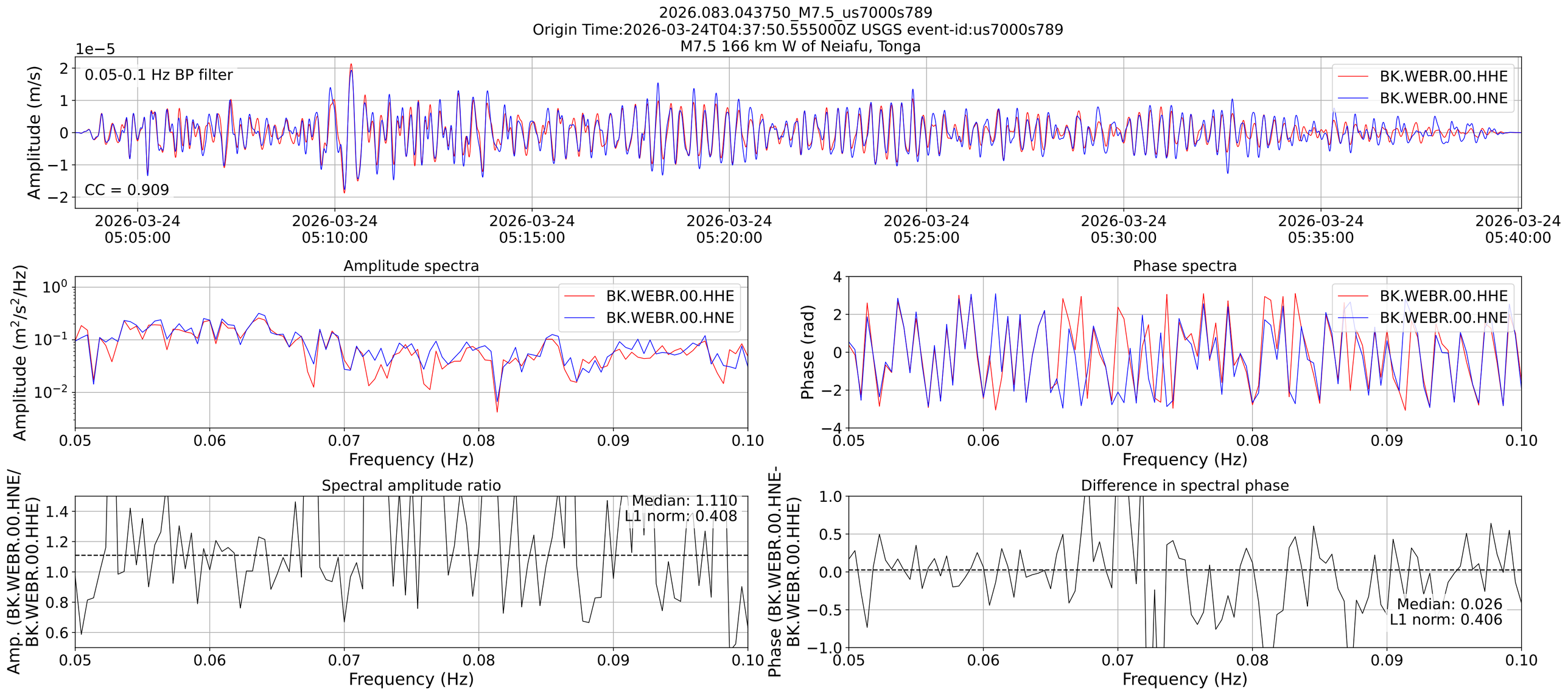

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.988
BK.VAK.00.HHN
BK.VAK.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNN/ BK.VAK.00.HHN)
Median: 0.988
L1 norm: 0.173
Difference in spectral phase
Phase (BK.VAK.00.HNN- BK.VAK.00.HHN)
Median: -0.008
L1 norm: 0.101

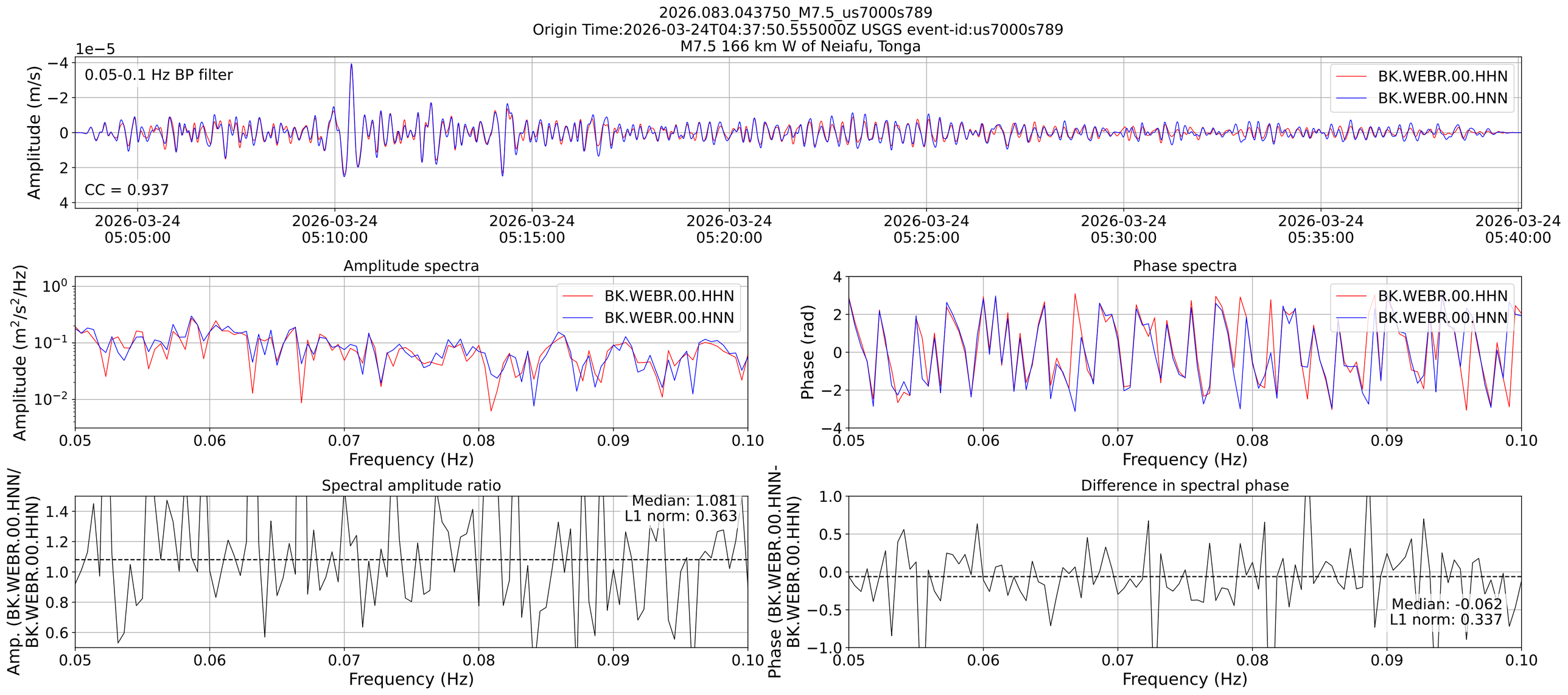

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.983
Amplitude (m/s)
BK.VAK.00.HHZ
BK.VAK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.VAK.00.HNZ/ BK.VAK.00.HHZ)
Median: 0.992
L1 norm: 0.173
Difference in spectral phase
Phase (BK.VAK.00.HNZ- BK.VAK.00.HHZ)
Median: -0.018
L1 norm: 0.160

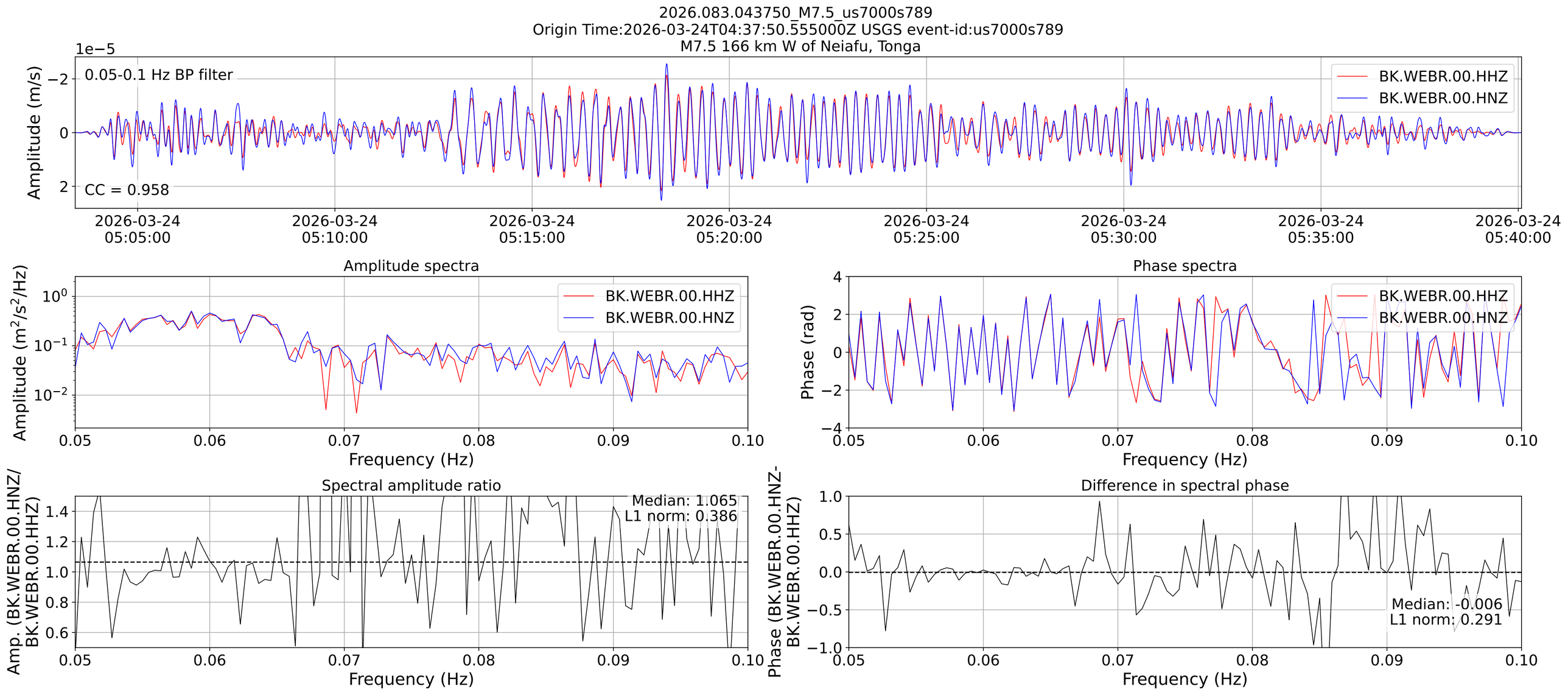

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.916
Amplitude (m/s)
BK.WEAV.00.HHE
BK.WEAV.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNE/ BK.WEAV.00.HHE)
Median: 1.188
L1 norm: 0.471
Difference in spectral phase
Phase (BK.WEAV.00.HNE- BK.WEAV.00.HHE)
Median: 0.042
L1 norm: 0.425

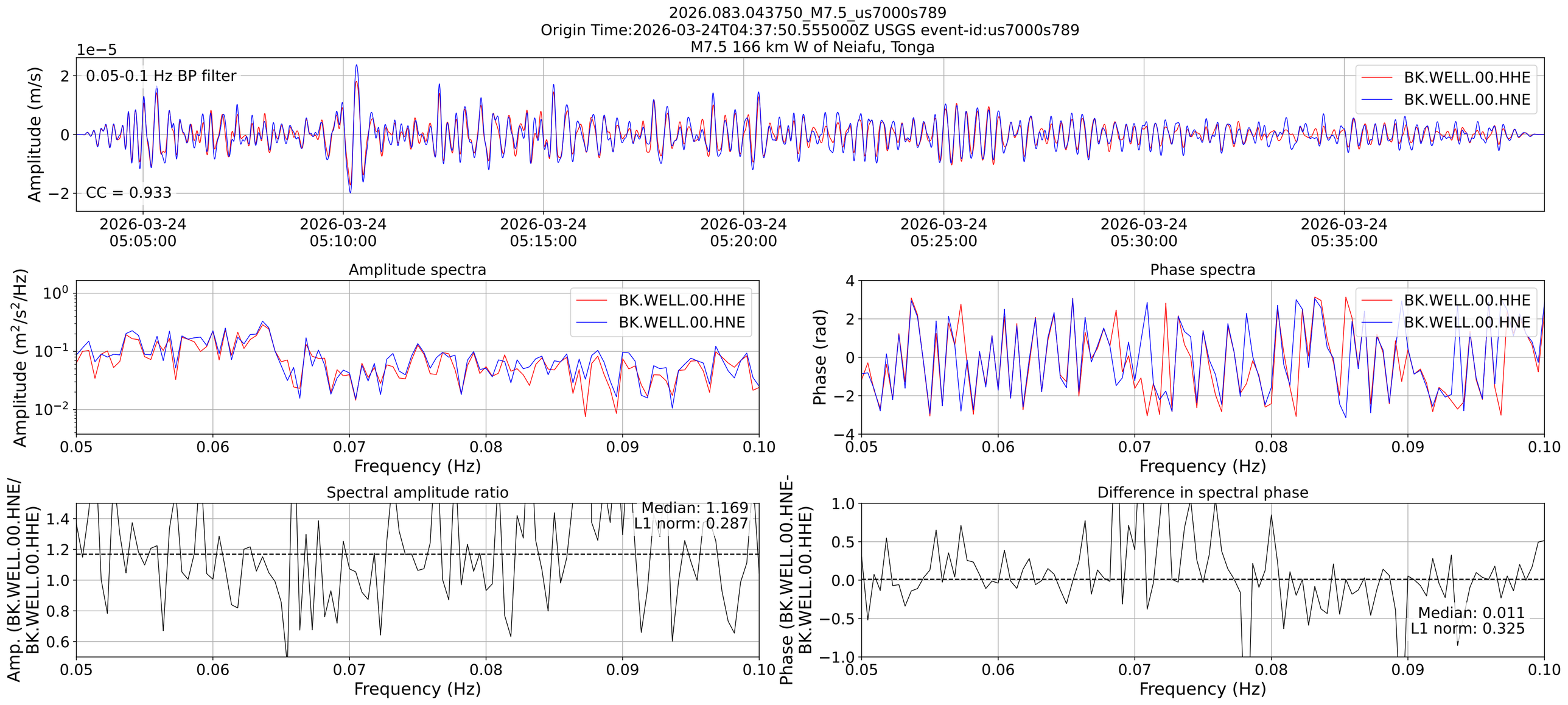

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.929
Amplitude (m/s)
BK.WEAV.00.HHN
BK.WEAV.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNN/ BK.WEAV.00.HHN)
Median: 1.178
L1 norm: 0.451
Difference in spectral phase
Phase (BK.WEAV.00.HNN- BK.WEAV.00.HHN)
Median: 0.023
L1 norm: 0.401

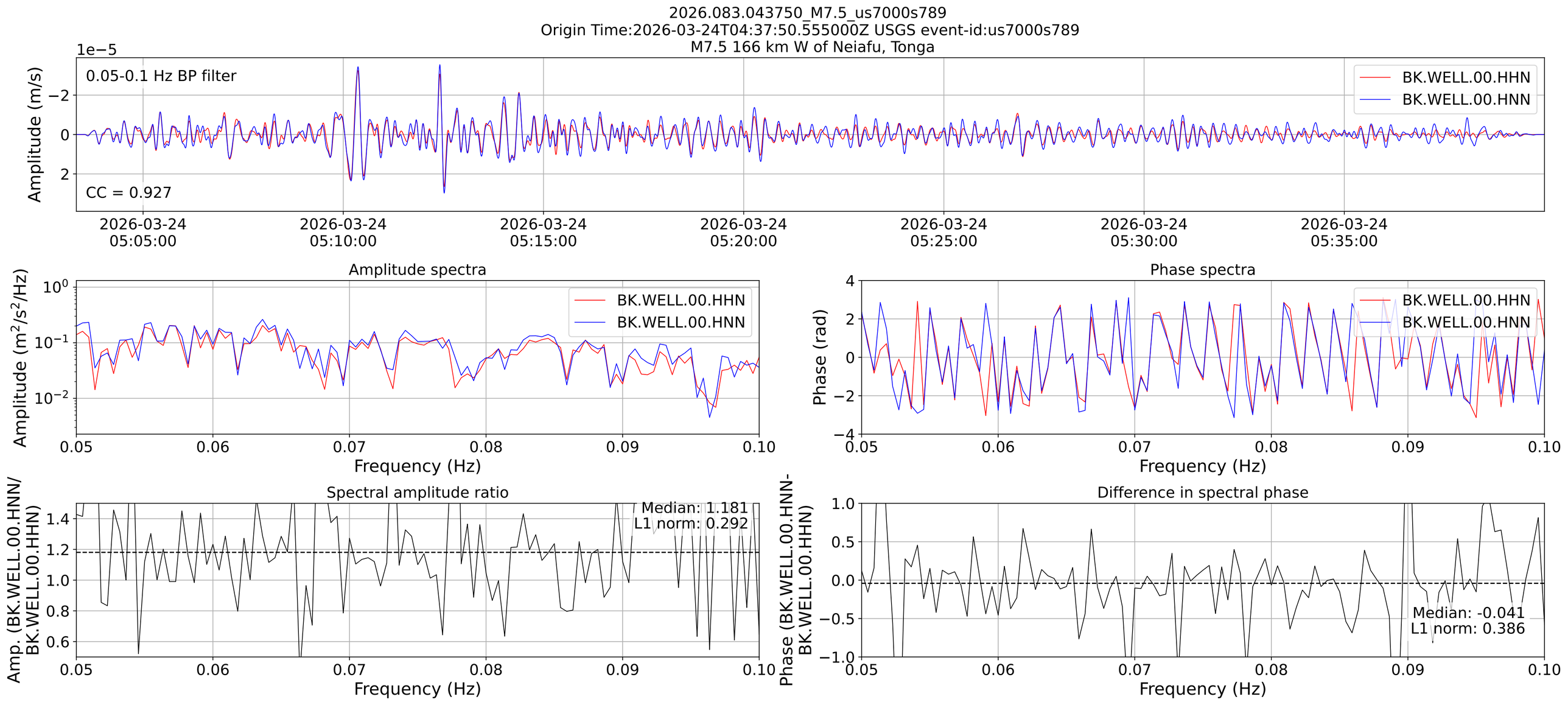

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.971
Amplitude (m/s)
BK.WEAV.00.HHZ
BK.WEAV.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEAV.00.HNZ/ BK.WEAV.00.HHZ)
Median: 1.152
L1 norm: 0.347
Difference in spectral phase
Phase (BK.WEAV.00.HNZ- BK.WEAV.00.HHZ)
Median: 0.013
L1 norm: 0.326

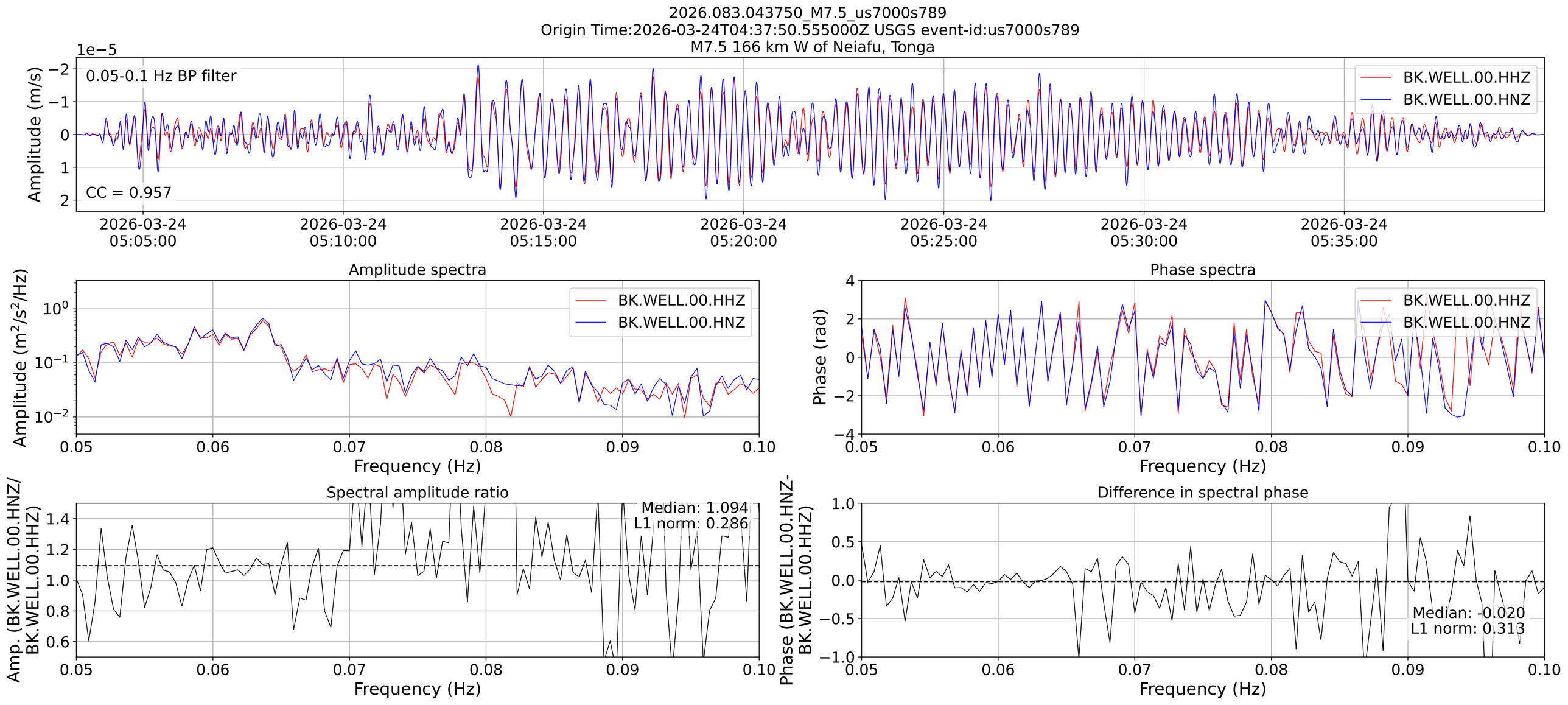

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.909
Amplitude (m/s)
BK.WEBR.00.HHE
BK.WEBR.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNE/ BK.WEBR.00.HHE)
Median: 1.110
L1 norm: 0.408
Difference in spectral phase
Phase (BK.WEBR.00.HNE- BK.WEBR.00.HHE)
Median: 0.026
L1 norm: 0.406

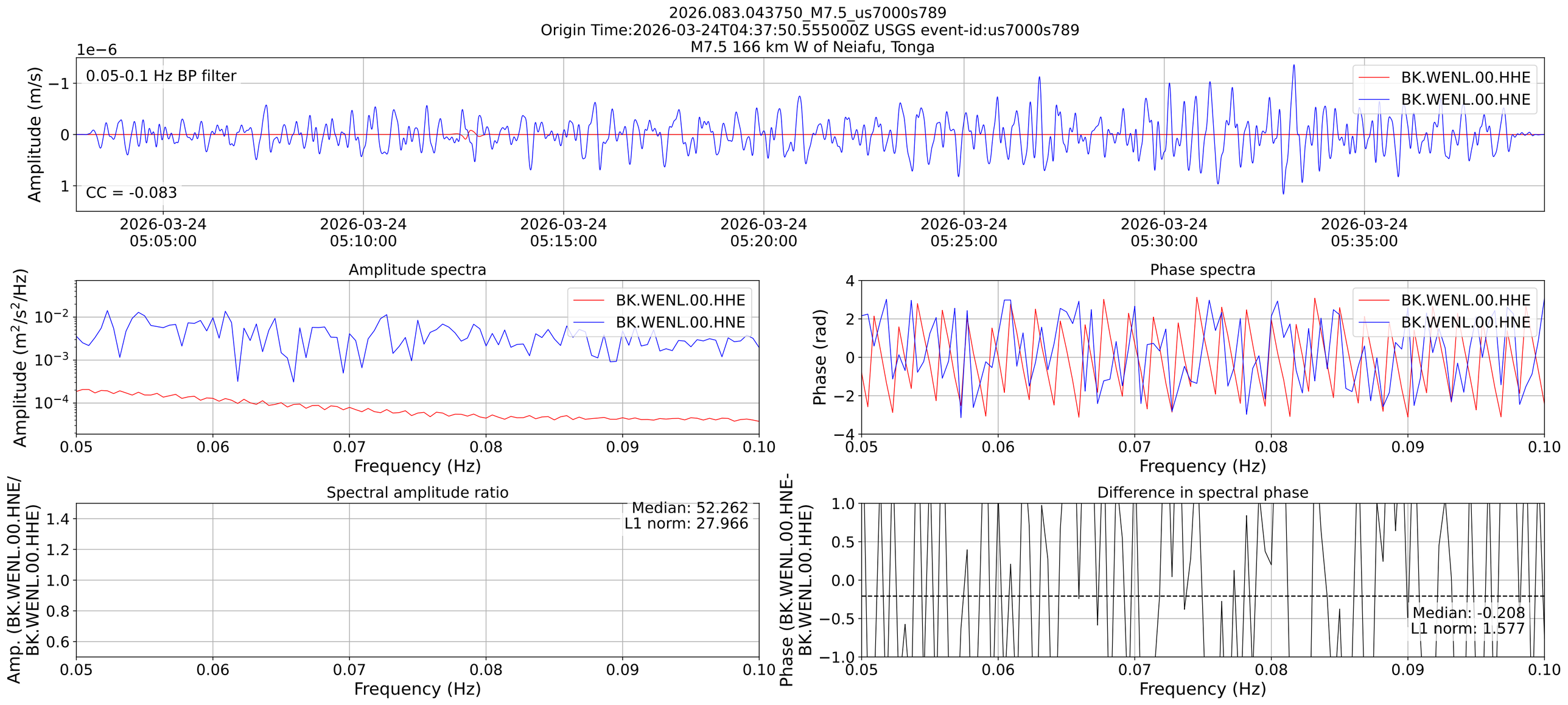

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.937
Amplitude (m/s)
BK.WEBR.00.HHN
BK.WEBR.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNN/ BK.WEBR.00.HHN)
Median: 1.081
L1 norm: 0.363
Difference in spectral phase
Phase (BK.WEBR.00.HNN-BK.WEBR.00.HHN)
Median: -0.062
L1 norm: 0.337

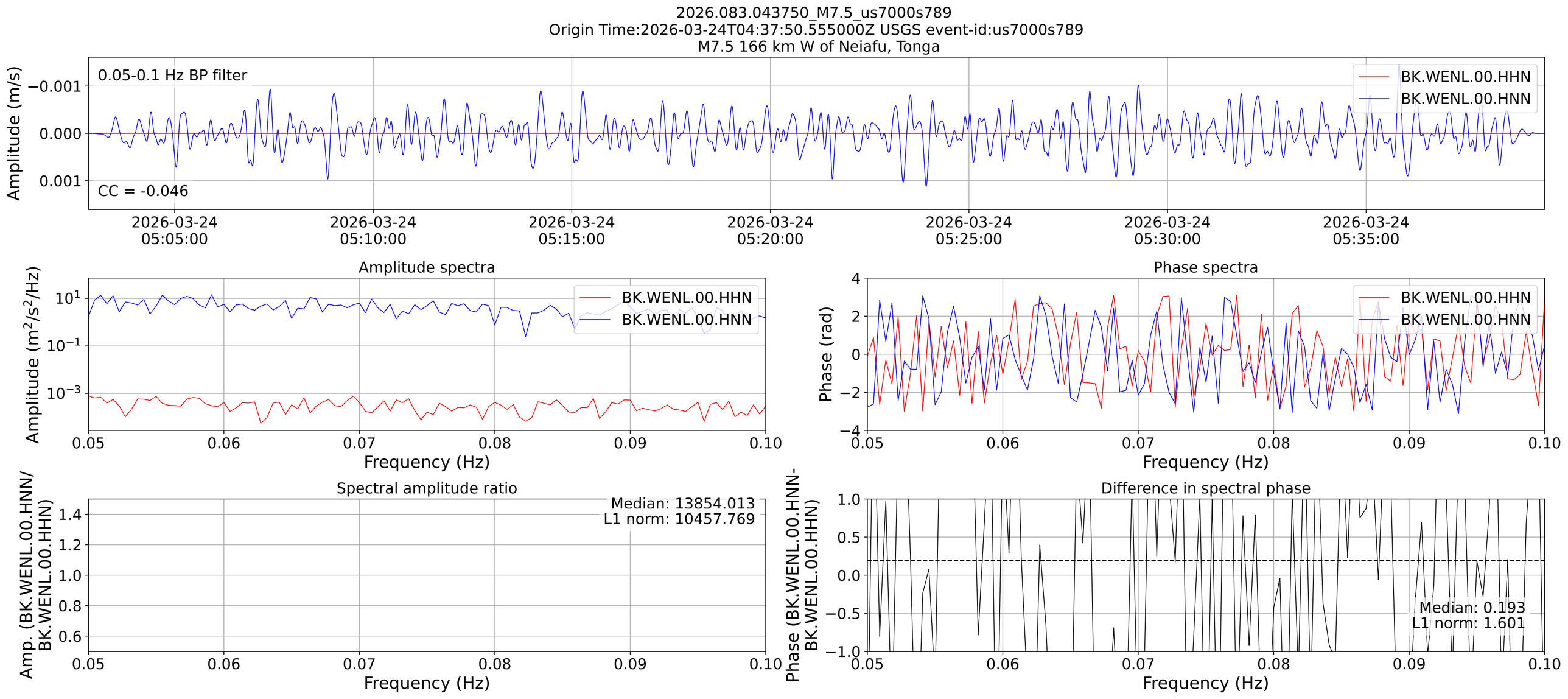

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.958
Amplitude (m/s)
BK.WEBR.00.HHZ
BK.WEBR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WEBR.00.HNZ/ BK.WEBR.00.HHZ)
Median: 1.065
L1 norm: 0.386
Difference in spectral phase
Phase (BK.WEBR.00.HNZ- BK.WEBR.00.HHZ)
Median: -0.006
L1 norm: 0.291

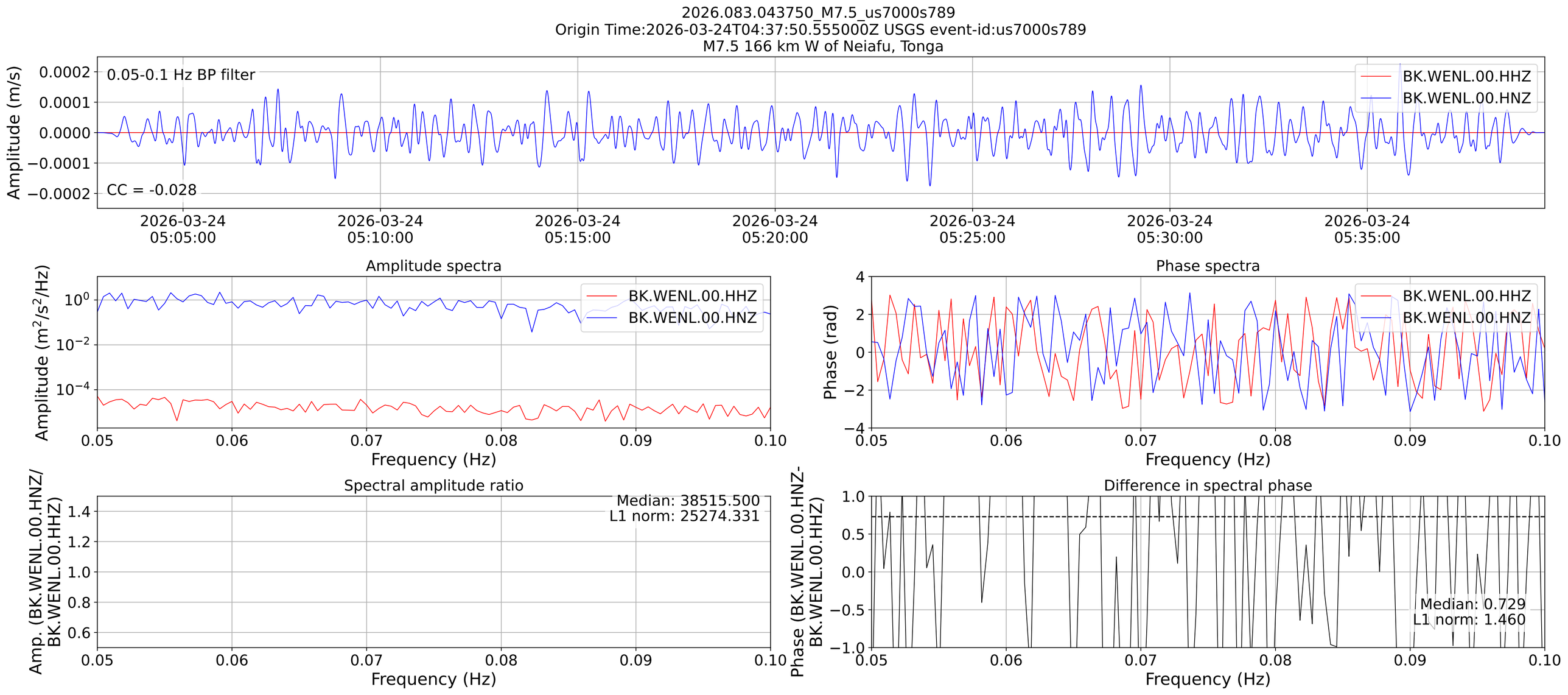

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.933
Amplitude (m/s)
BK.WELL.00.HHE
BK.WELL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNE/ BK.WELL.00.HHE)
Median: 1.169
L1 norm: 0.287
Difference in spectral phase
Phase (BK.WELL.00.HNE- BK.WELL.00.HHE)
Median: 0.011
L1 norm: 0.325

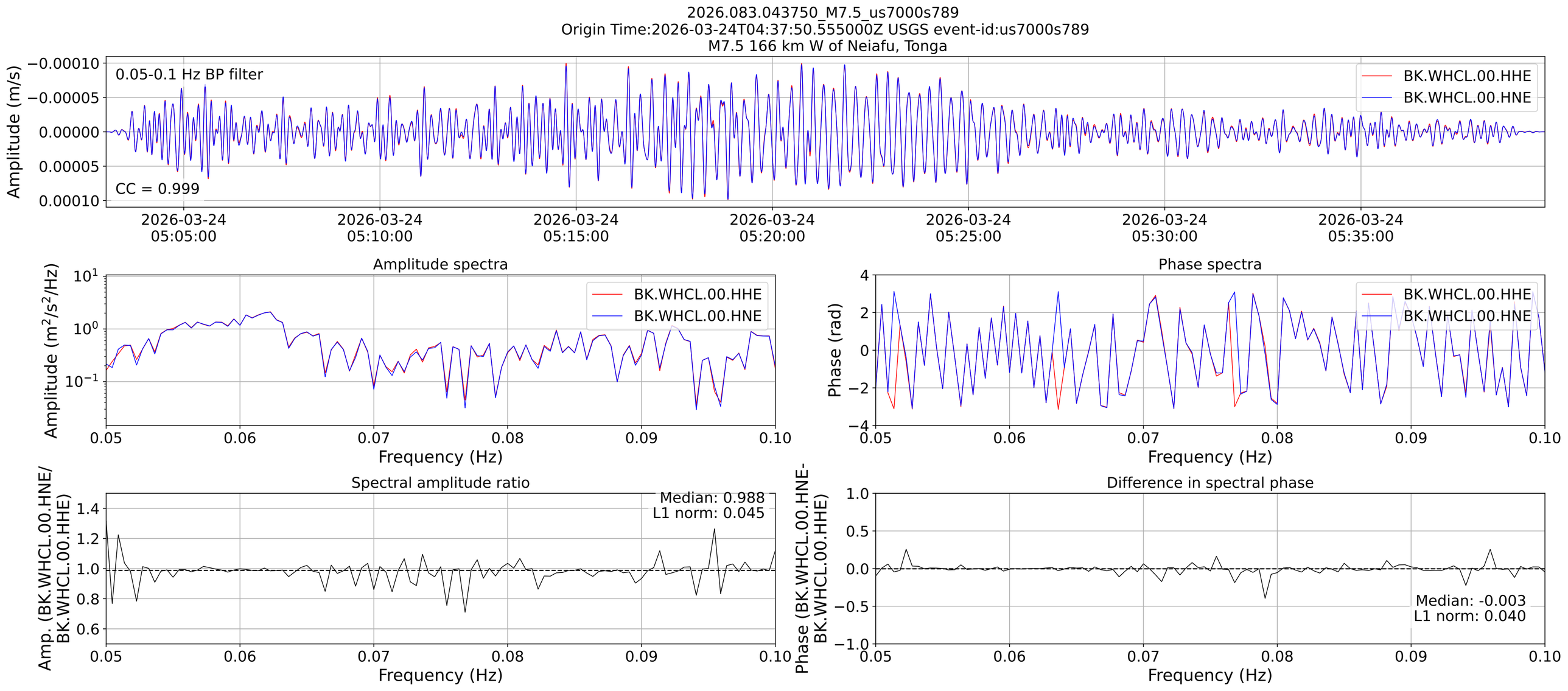

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.927
Amplitude (m/s)
BK.WELL.00.HHN
BK.WELL.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNN/ BK.WELL.00.HHN)
Median: 1.181
L1 norm: 0.292
Difference in spectral phase
Phase (BK.WELL.00.HNN- BK.WELL.00.HHN)
Median: -0.041
L1 norm: 0.386

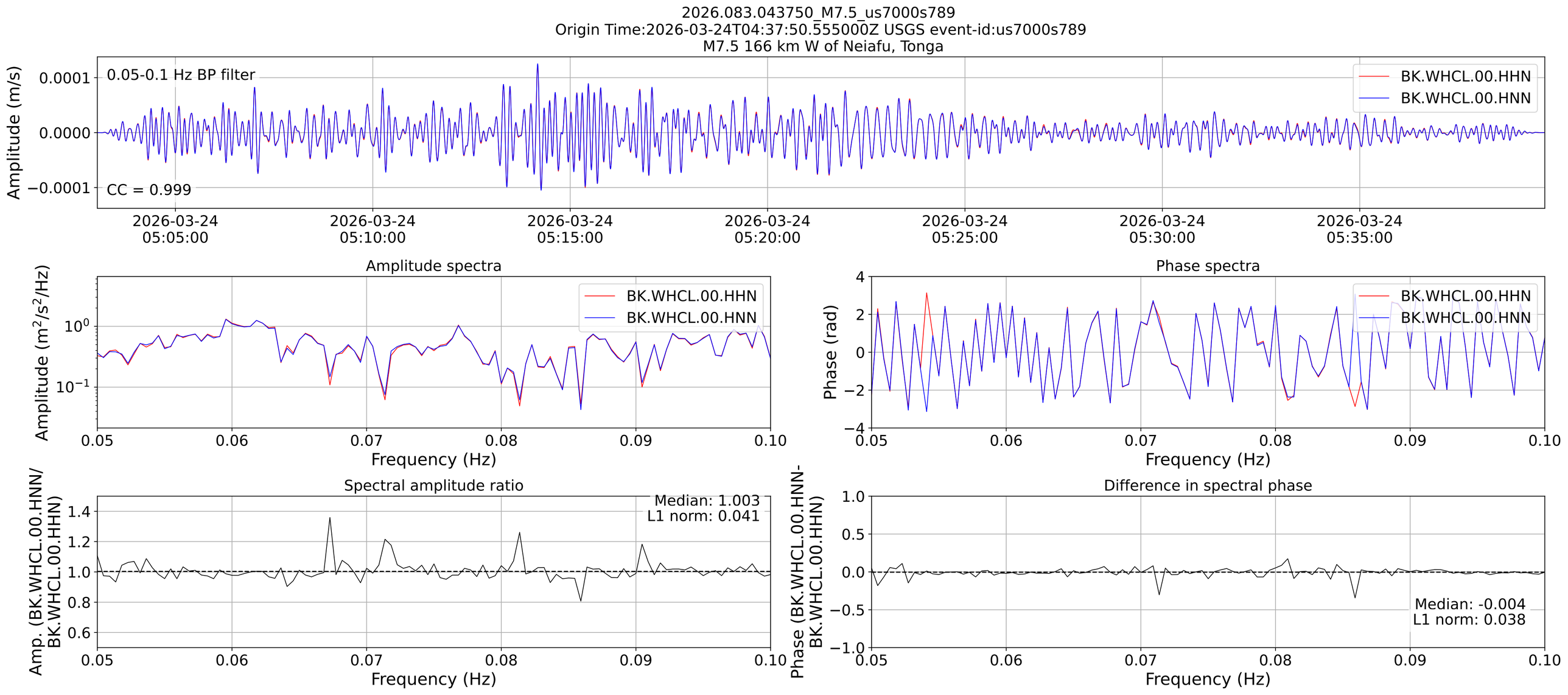

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.957
BK.WELL.00.HHZ
BK.WELL.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WELL.00.HNZ/ BK.WELL.00.HHZ)
Median: 1.094
L1 norm: 0.286
Difference in spectral phase
Phase (BK.WELL.00.HNZ- BK.WELL.00.HHZ)
Median: -0.020
L1 norm: 0.313

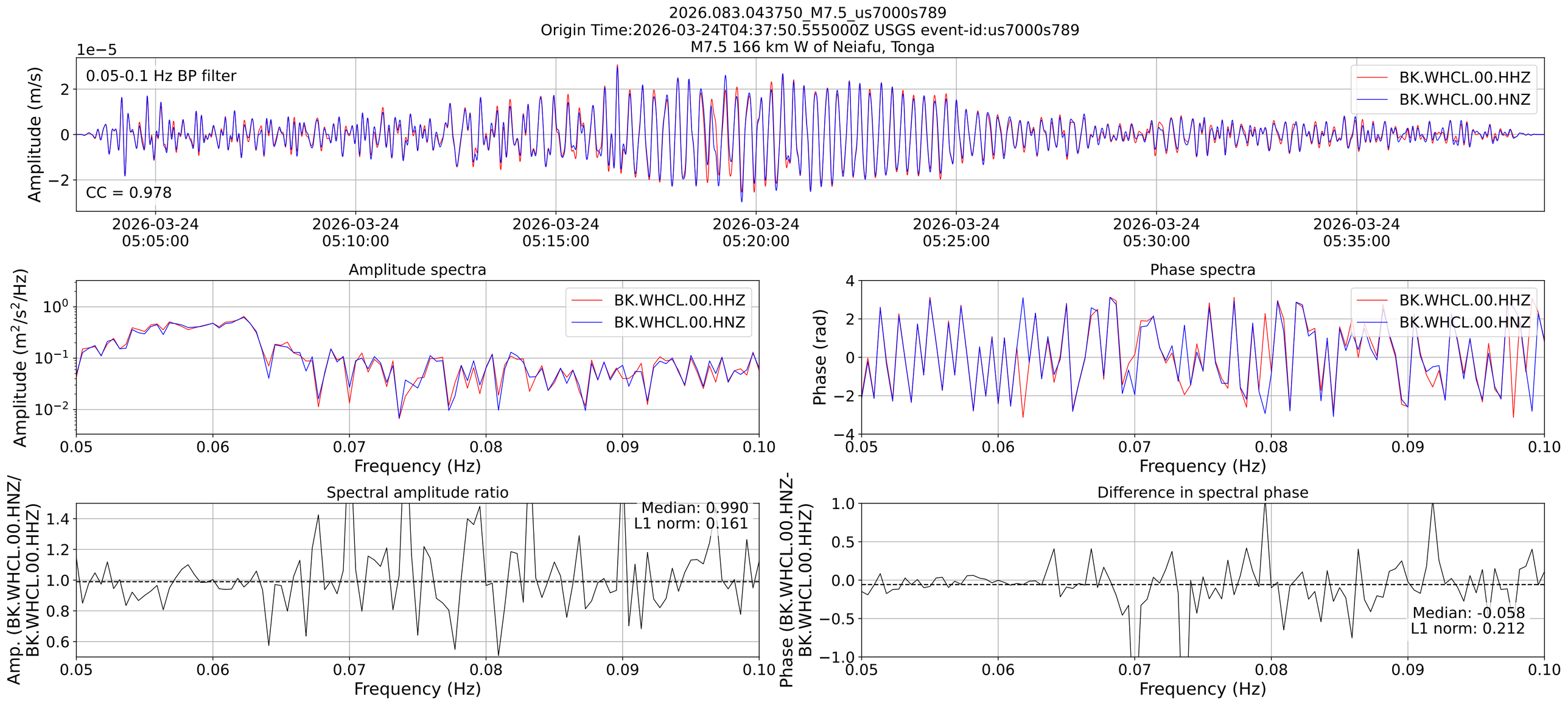

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−6
0.05-0.1 Hz BP filter
CC = -0.083
Amplitude (m/s)
BK.WENL.00.HHE
BK.WENL.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 52.262
L1 norm: 27.966
Amp. (BK.WENL.00.HNE/ BK.WENL.00.HHE)
Difference in spectral phase
Phase (BK.WENL.00.HNE- BK.WENL.00.HHE)
Median: -0.208
L1 norm: 1.577

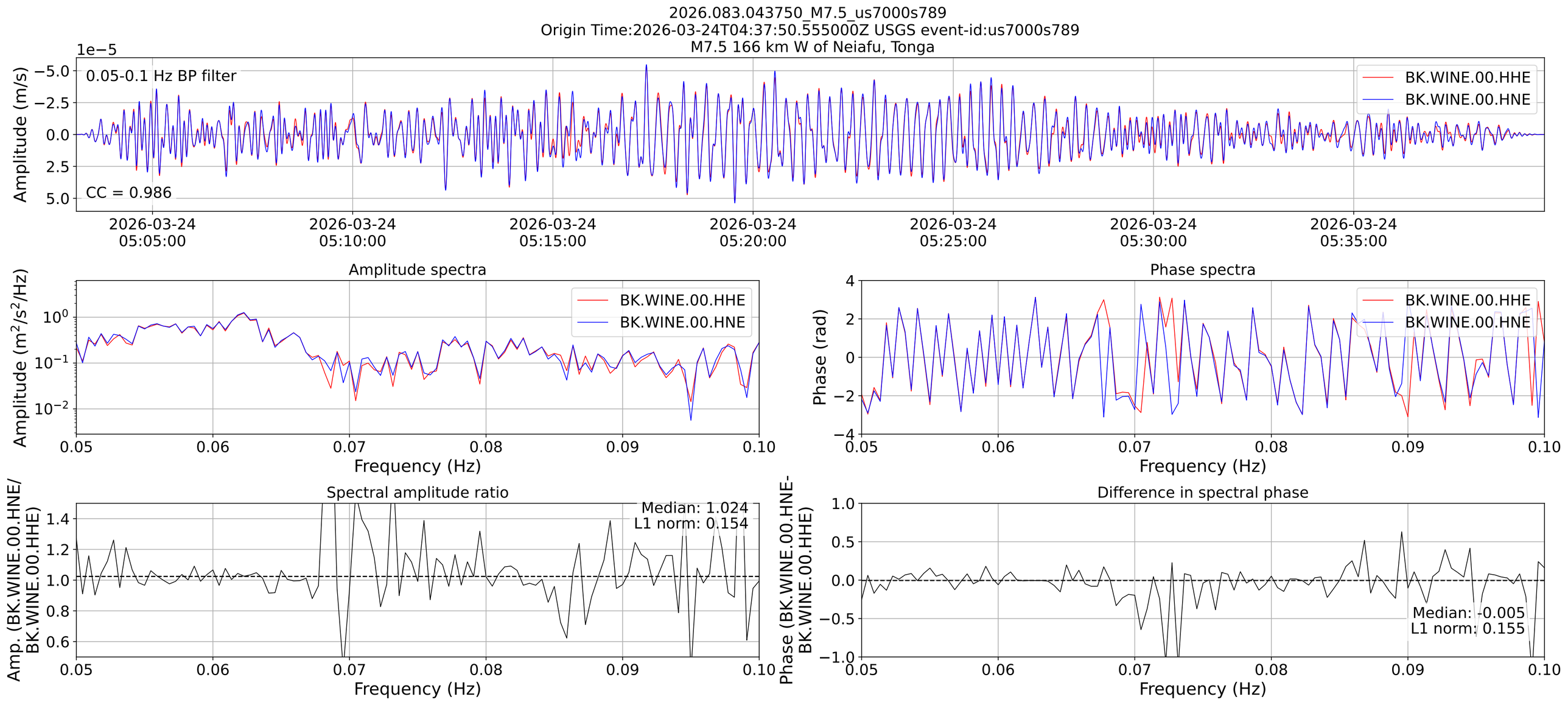

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = -0.046
BK.WENL.00.HHN
BK.WENL.00.HHN
Amplitude (m/s)
−0.001
0.000
0.001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Frequency (Hz)
Spectral amplitude ratio
Amp. (BK.WENL.00.HHN/ BK.WENL.00.HHN)
Median: 13854.013
L1 norm: 10457.769
Frequency (Hz)
Difference in spectral phase
Phase (BK.WENL.00.HHN- BK.WENL.00.HHN)
Median: 0.193
L1 norm: 1.601
Frequency (Hz)

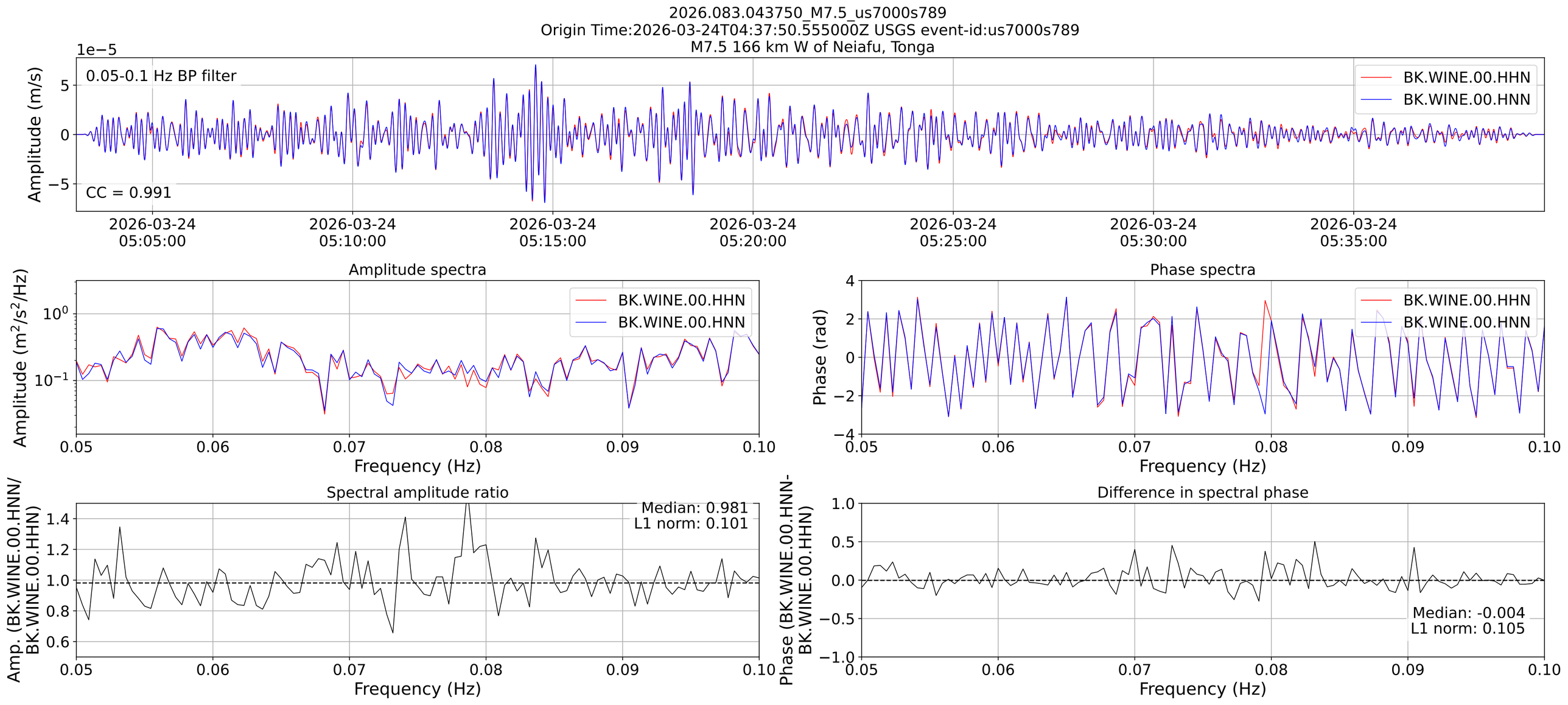

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = -0.028
BK.WENL.00.HHZ
BK.WENL.00.HNZ
Amplitude (m/s)
0.0002
0.0001
0.0000
−0.0001
−0.0002
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WENL.00.HNZ/ BK.WENL.00.HHZ)
Median: 38515.500
L1 norm: 25274.331
Difference in spectral phase
Phase (BK.WENL.00.HNZ- BK.WENL.00.HHZ)
Median: 0.729
L1 norm: 1.460

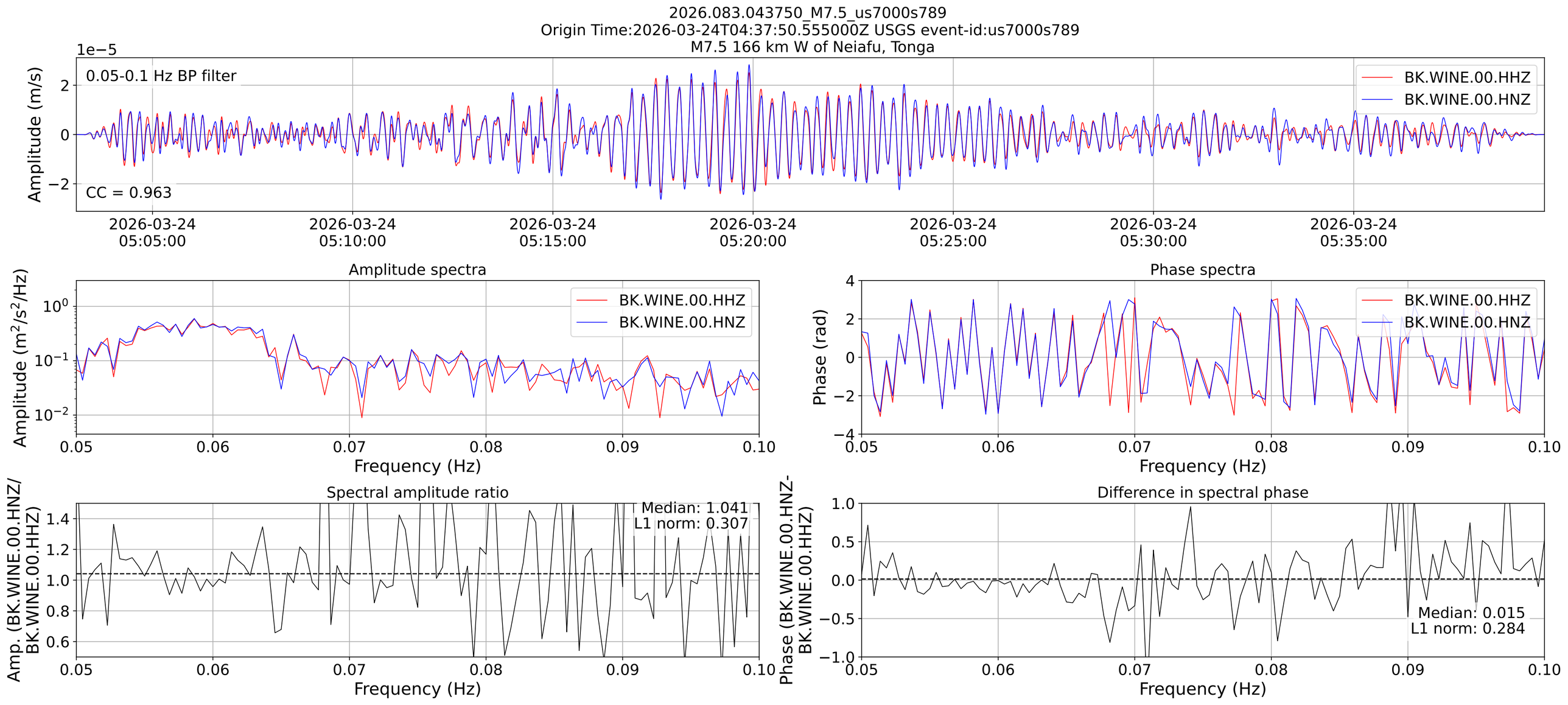

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.999
BK.WHCL.00.HHE
BK.WHCL.00.HNE
Amplitude (m/s)
−0.00010
−0.00005
0.00000
0.00005
0.00010
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNE/ BK.WHCL.00.HHE)
Median: 0.988
L1 norm: 0.045
Difference in spectral phase
Phase (BK.WHCL.00.HNE- BK.WHCL.00.HHE)
Median: -0.003
L1 norm: 0.040

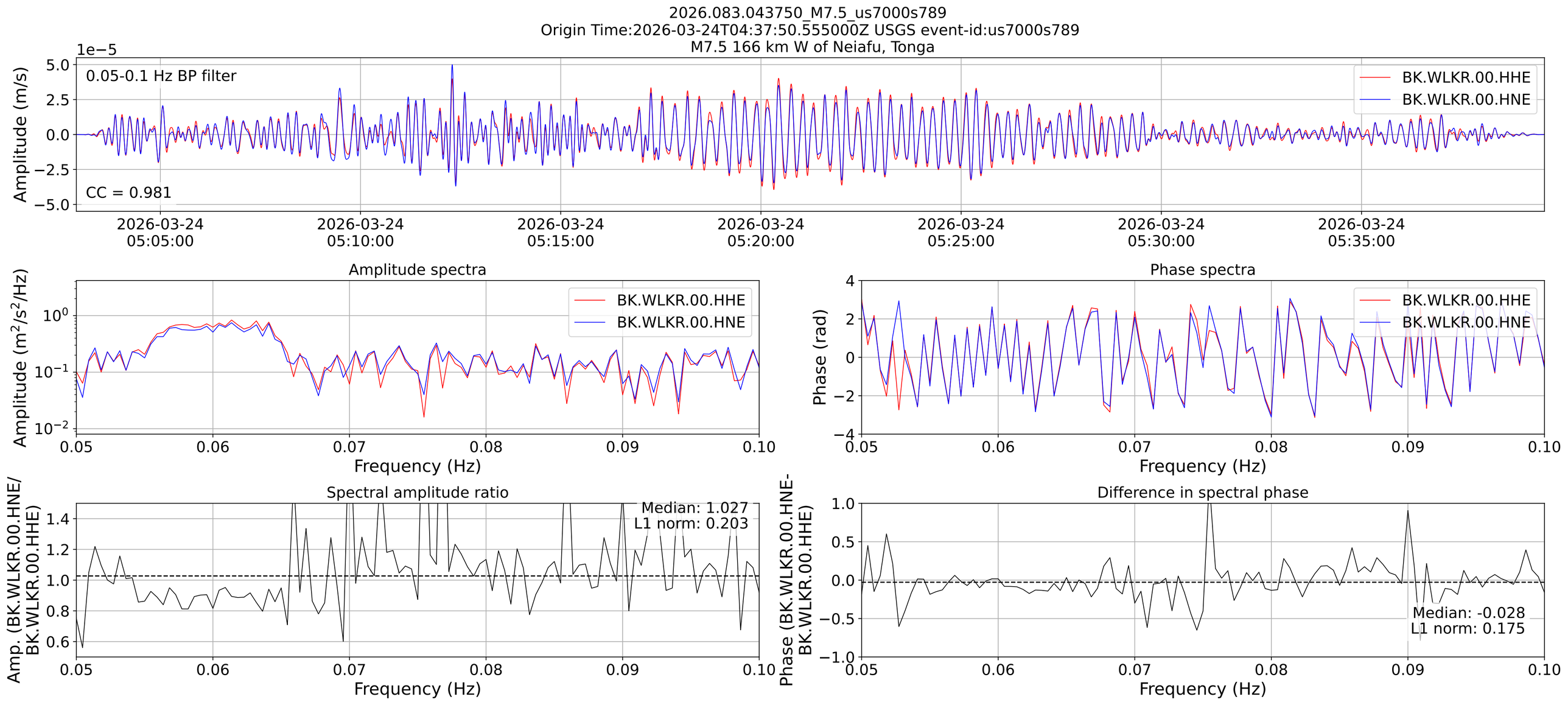

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
0.05-0.1 Hz BP filter
CC = 0.999
BK.WHCL.00.HHN
BK.WHCL.00.HNN
Amplitude (m/s)
0.0001
0.0000
−0.0001
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNN/ BK.WHCL.00.HHN)
Median: 1.003
L1 norm: 0.041
Difference in spectral phase
Phase (BK.WHCL.00.HNN- BK.WHCL.00.HHN)
Median: -0.004
L1 norm: 0.038

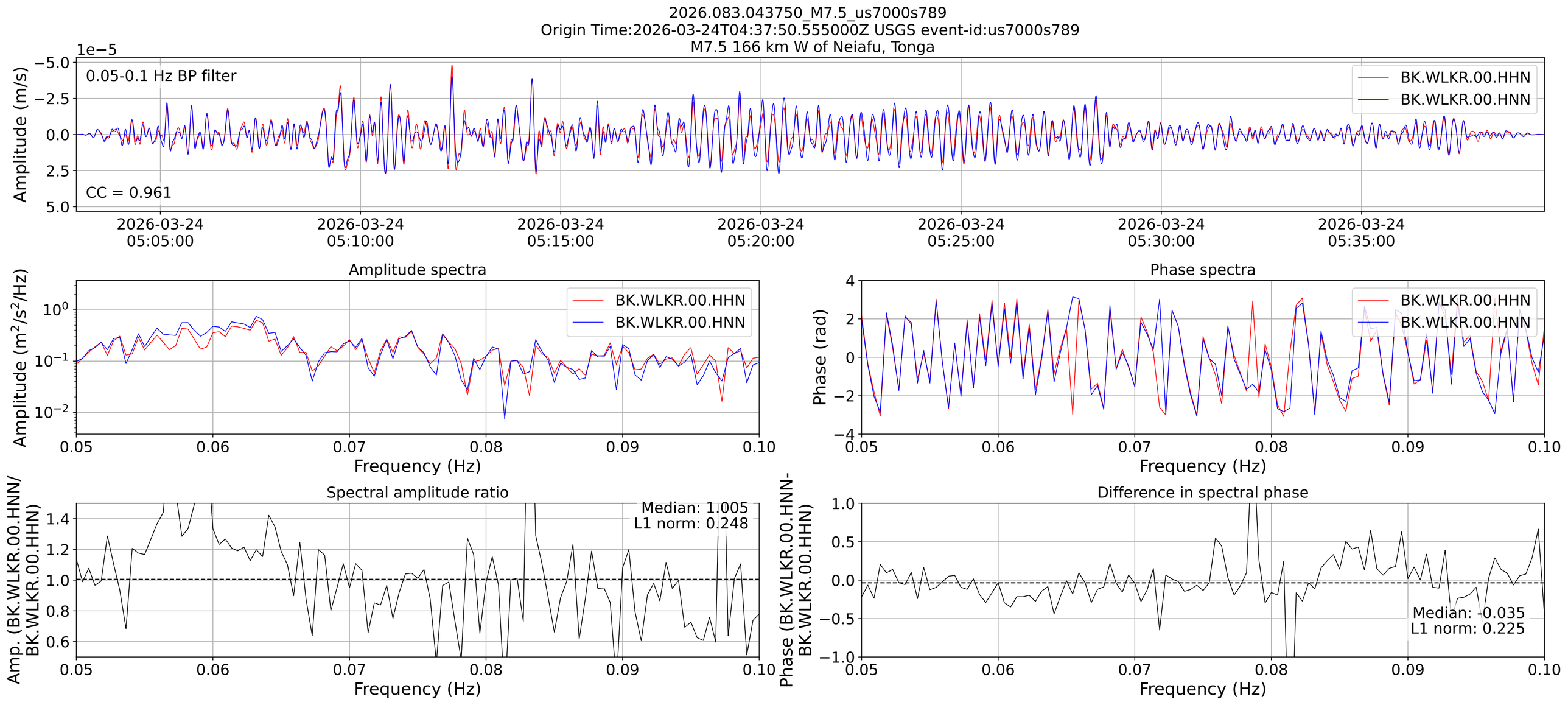

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.978
BK.WHCL.00.HHZ
BK.WHCL.00.HNZ
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WHCL.00.HNZ/ BK.WHCL.00.HHZ)
Median: 0.990
L1 norm: 0.161
Difference in spectral phase
Phase (BK.WHCL.00.HNZ- BK.WHCL.00.HHZ)
Median: -0.058
L1 norm: 0.212

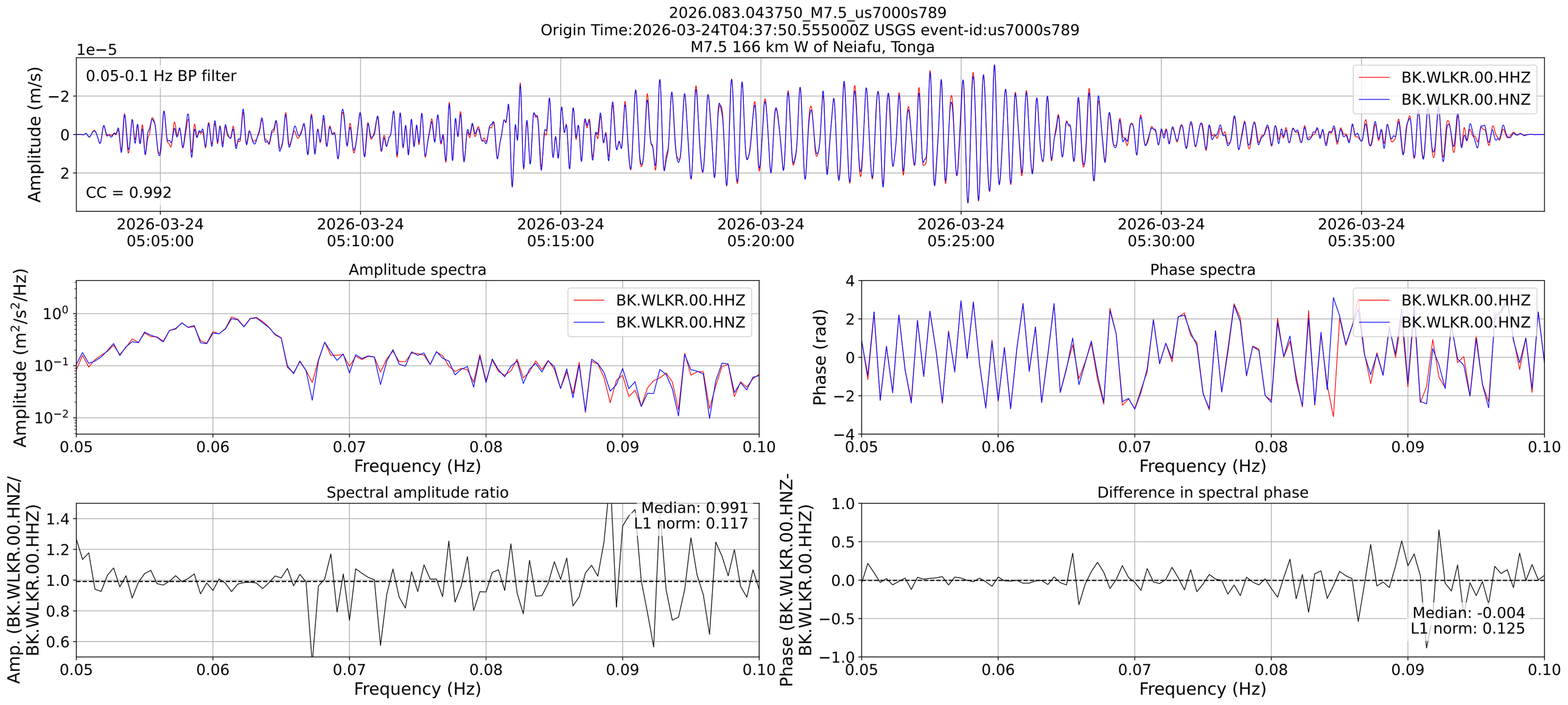

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.986
Amplitude (m/s)
BK.WINE.00.HHE
BK.WINE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WINE.00.HNE/ BK.WINE.00.HHE)
Median: 1.024
L1 norm: 0.154
Difference in spectral phase
Phase (BK.WINE.00.HNE- BK.WINE.00.HHE)
Median: -0.005
L1 norm: 0.155

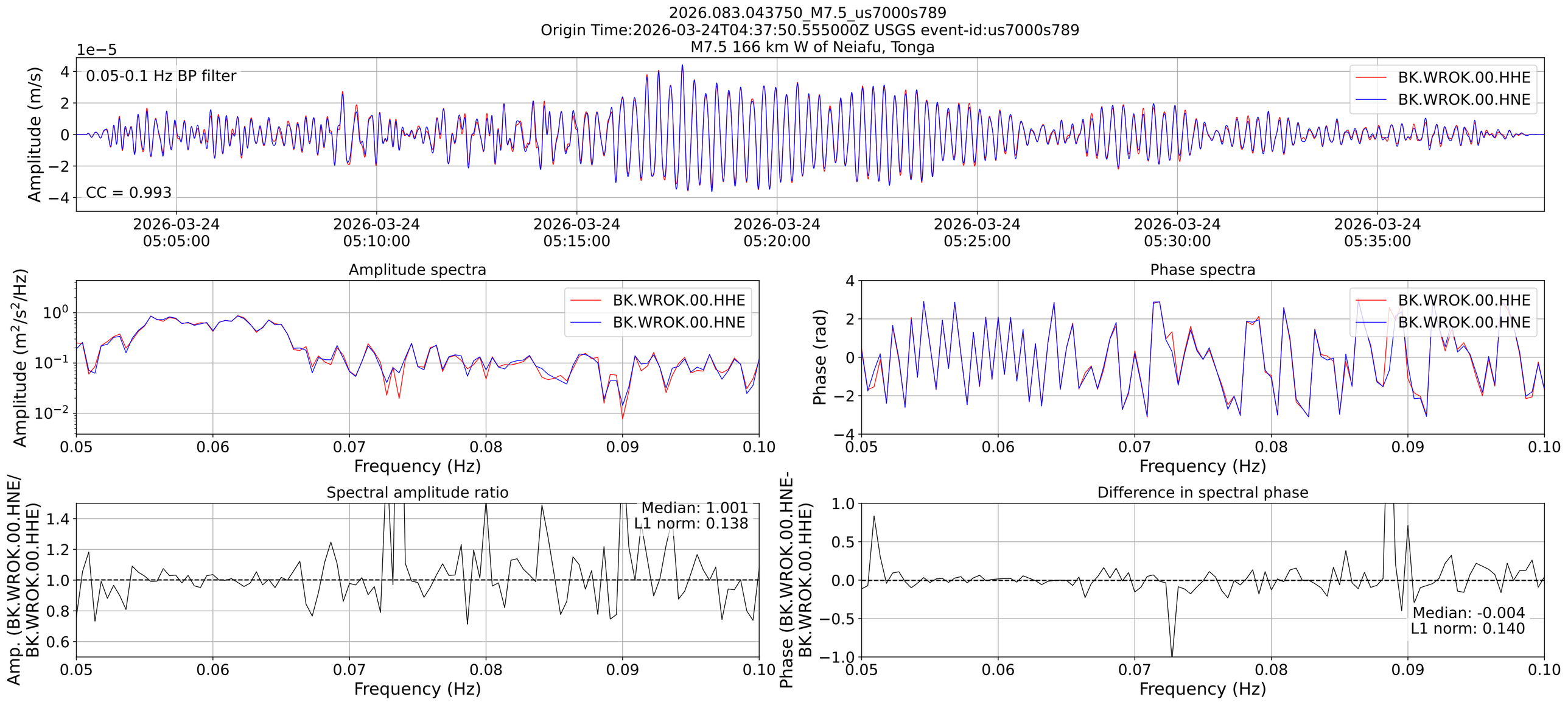

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.991
Amplitude (m/s)
BK.WINE.00.HHN
BK.WINE.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Median: 0.981
L1 norm: 0.101
Amp. (BK.WINE.00.HNN/ BK.WINE.00.HHN)
Difference in spectral phase
Phase (BK.WINE.00.HNN- BK.WINE.00.HHN)
Median: -0.004
L1 norm: 0.105

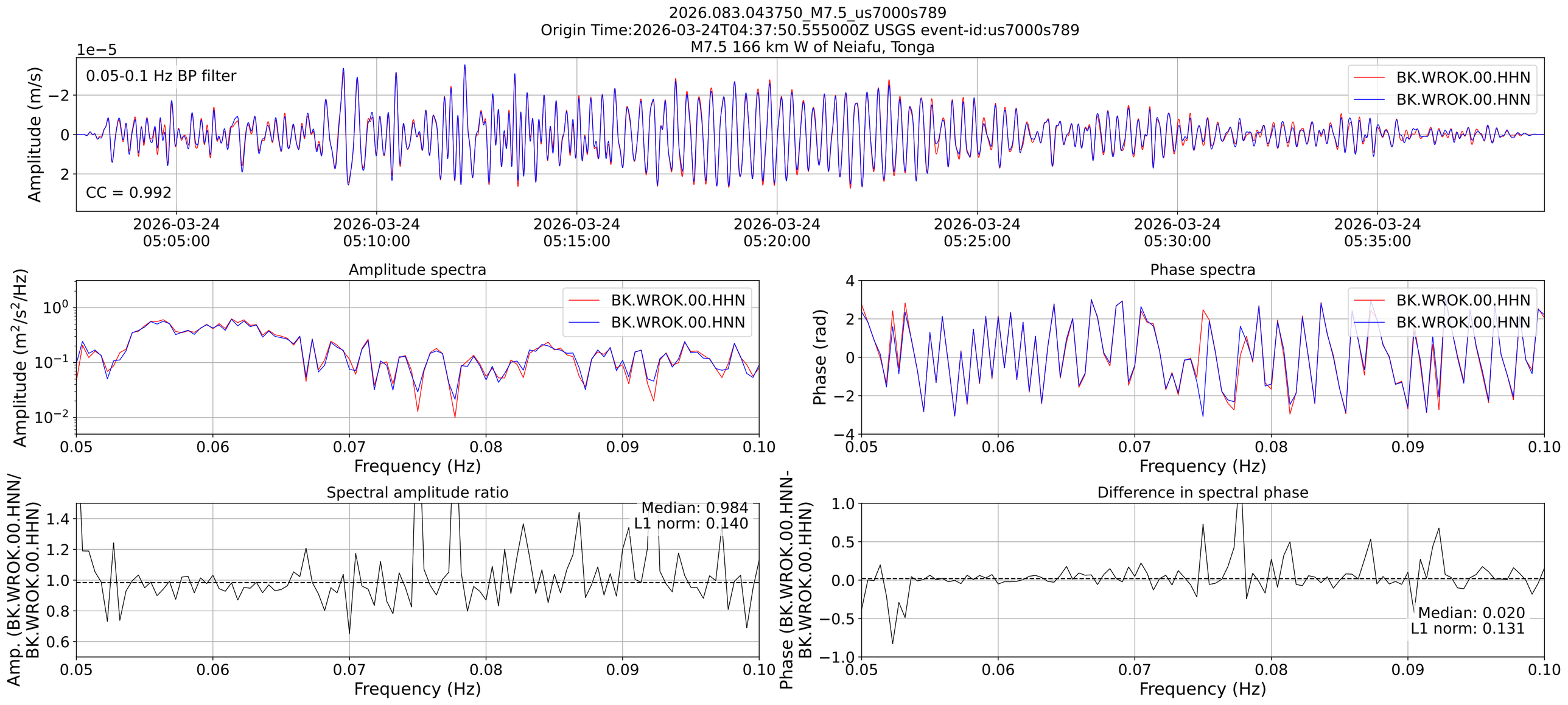

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.963
Amplitude (m/s)
BK.WINE.00.HHZ
BK.WINE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WINE.00.HNZ/ BK.WINE.00.HHZ)
Median: 1.041
L1 norm: 0.307
Difference in spectral phase
Phase (BK.WINE.00.HNZ- BK.WINE.00.HHZ)
Median: 0.015
L1 norm: 0.284

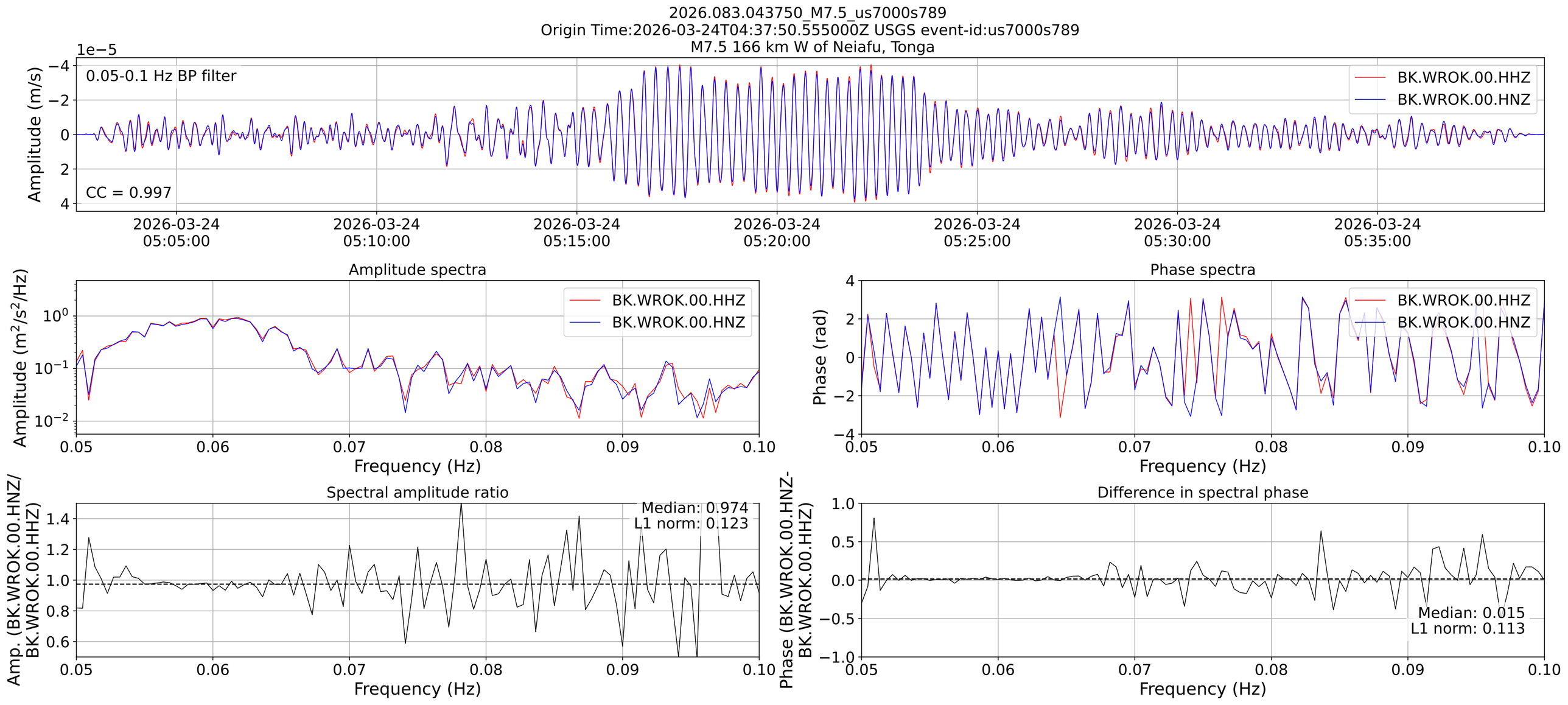

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.981
BK.WLKR.00.HHE
BK.WLKR.00.HNE
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNE/ BK.WLKR.00.HHE)
Median: 1.027
L1 norm: 0.203
Difference in spectral phase
Phase (BK.WLKR.00.HNE- BK.WLKR.00.HHE)
Median: -0.028
L1 norm: 0.175

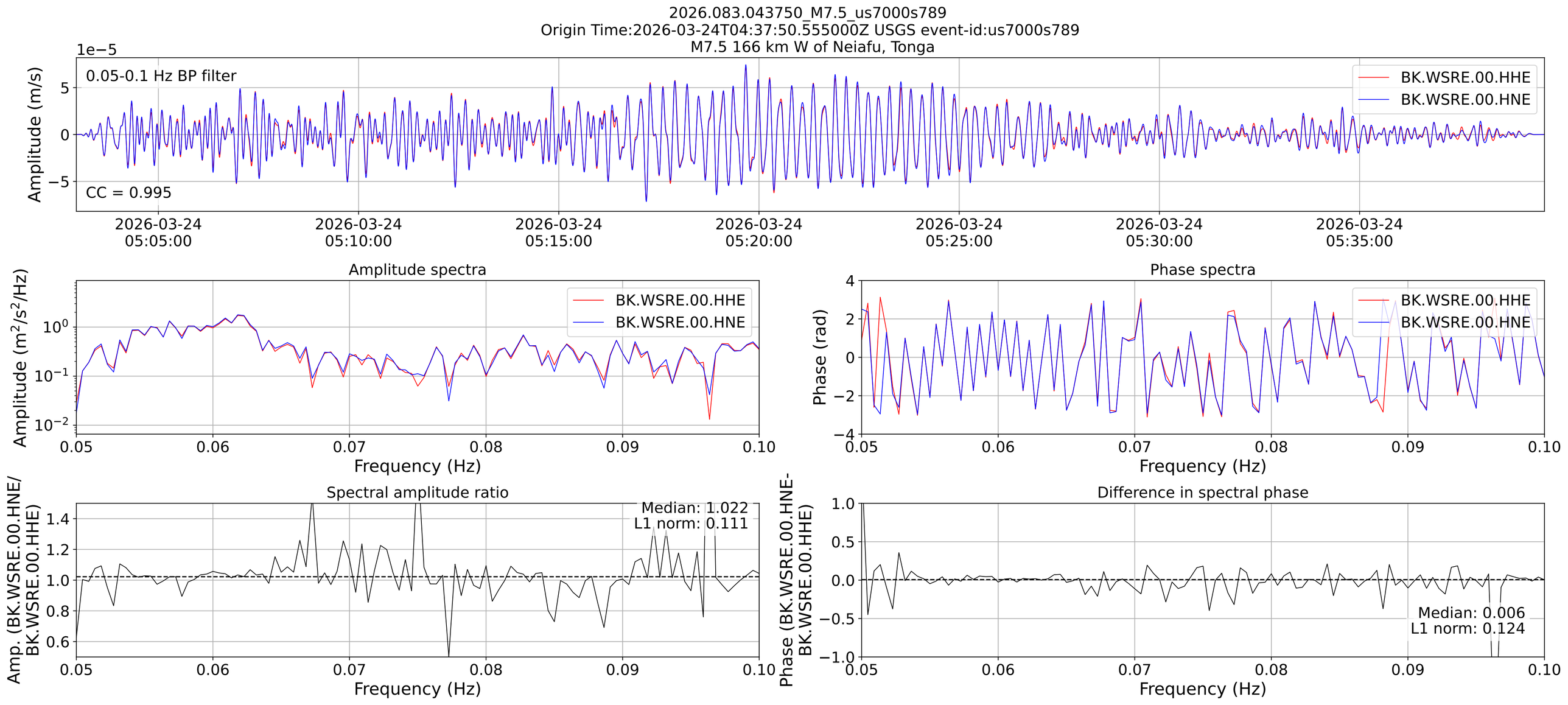

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.961
BK.WLKR.00.HHN
BK.WLKR.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNN/ BK.WLKR.00.HHN)
Median: 1.005
L1 norm: 0.248
Difference in spectral phase
Phase (BK.WLKR.00.HNN- BK.WLKR.00.HHN)
Median: -0.035
L1 norm: 0.225

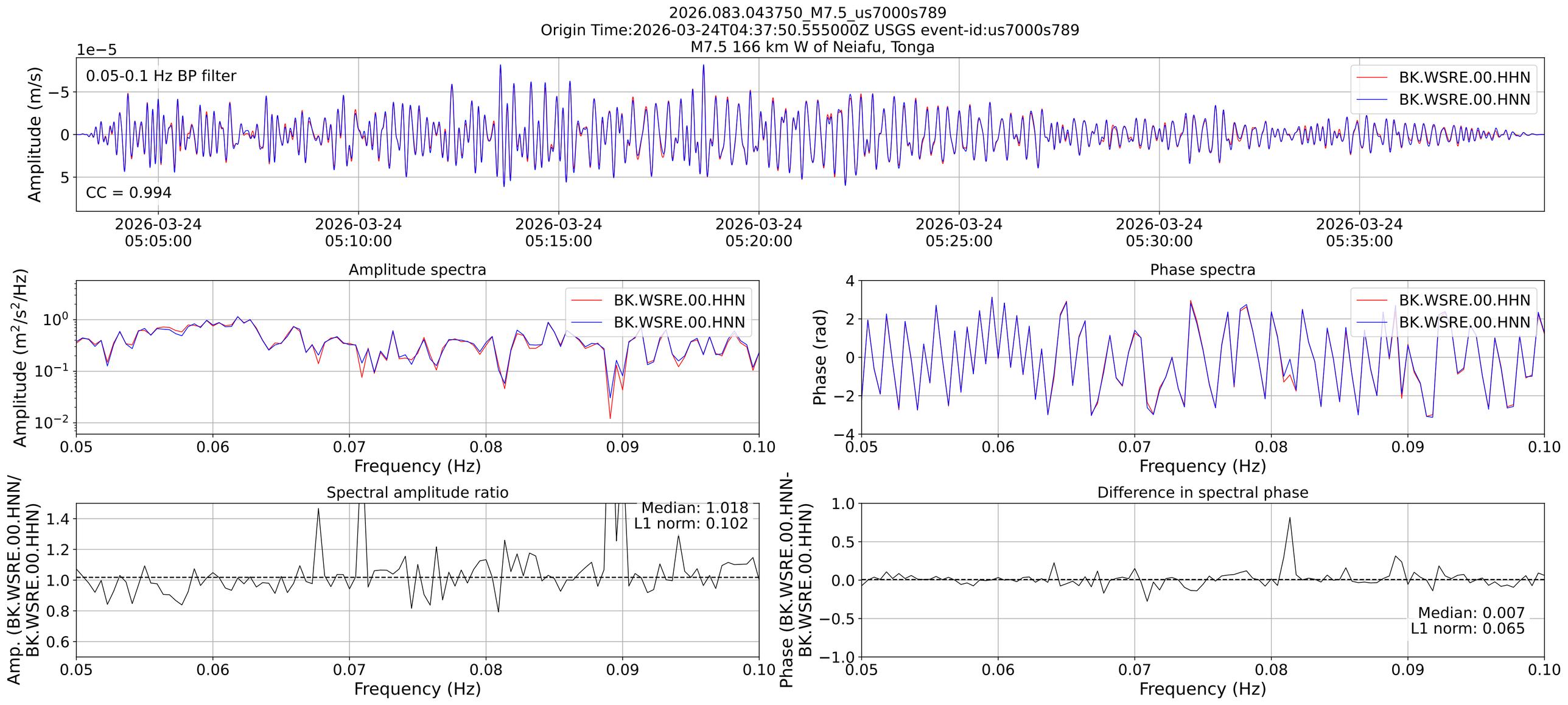

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.992
BK.WLKR.00.HHZ
BK.WLKR.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WLKR.00.HNZ/ BK.WLKR.00.HHZ)
Median: 0.991
L1 norm: 0.117
Difference in spectral phase
Phase (BK.WLKR.00.HNZ- BK.WLKR.00.HHZ)
Median: -0.004
L1 norm: 0.125

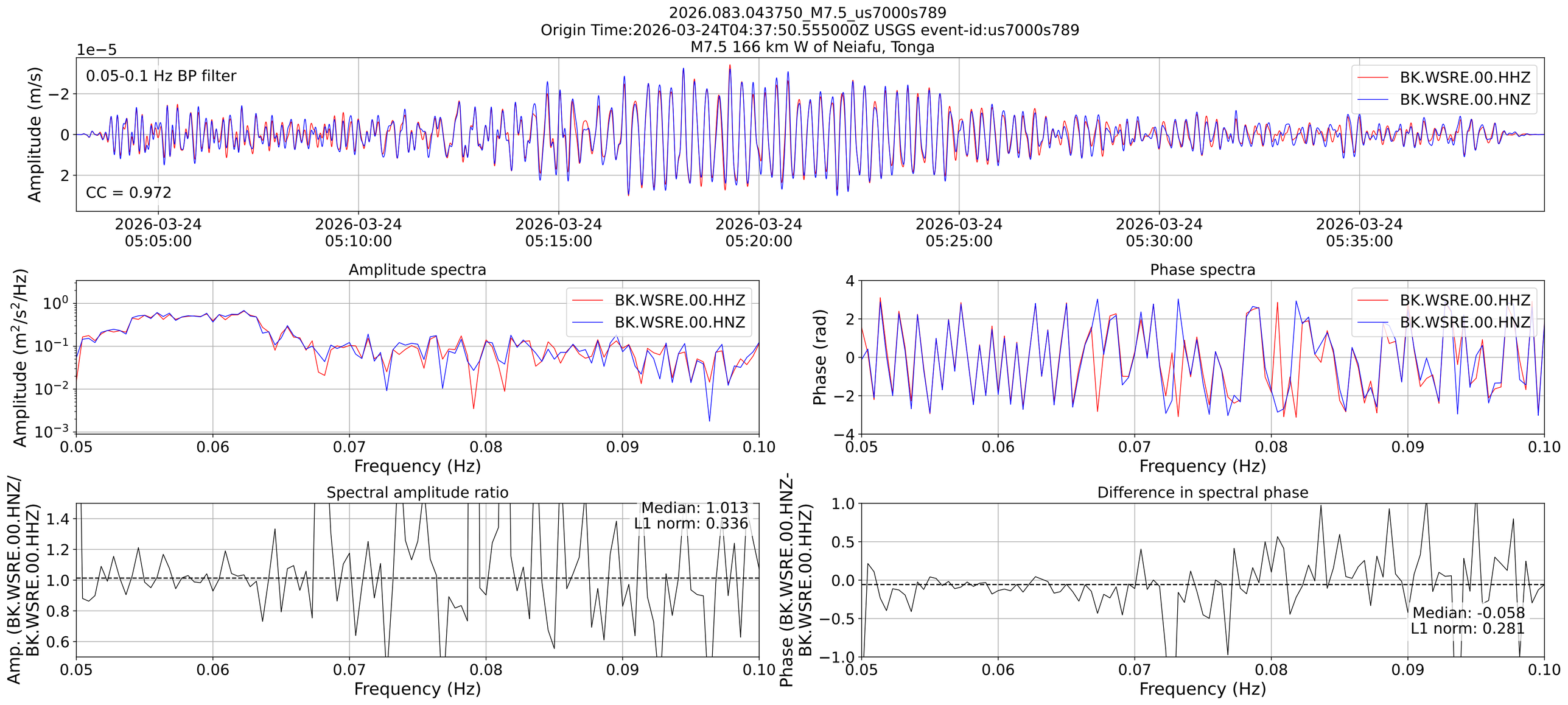

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.993
Amplitude (m/s)
BK.WROK.00.HHE
BK.WROK.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNE/ BK.WROK.00.HHE)
Median: 1.001
L1 norm: 0.138
Difference in spectral phase
Phase (BK.WROK.00.HNE- BK.WROK.00.HHE)
Median: -0.004
L1 norm: 0.140

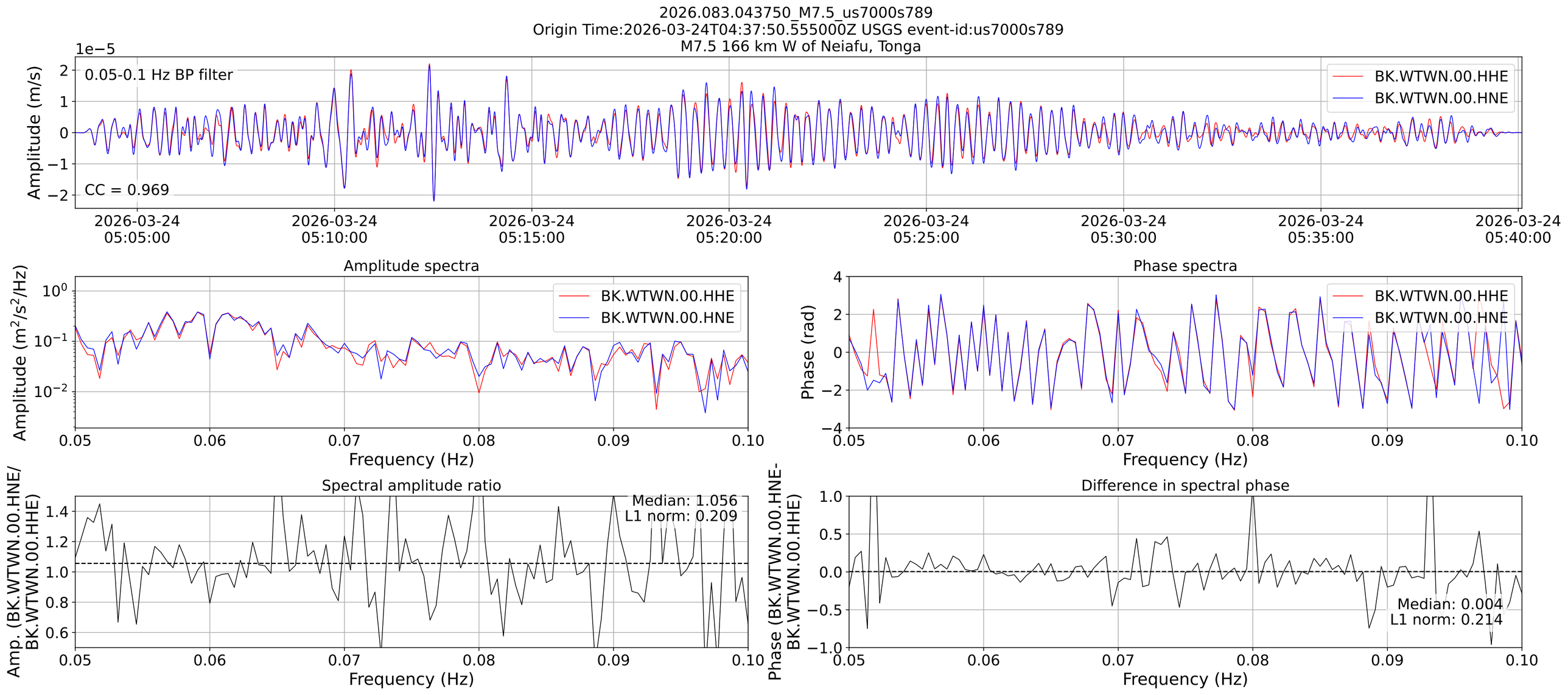

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.WROK.00.HHN
BK.WROK.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNN/ BK.WROK.00.HHN)
Median: 0.984
L1 norm: 0.140
Difference in spectral phase
Phase (BK.WROK.00.HNN- BK.WROK.00.HHN)
Median: 0.020
L1 norm: 0.131

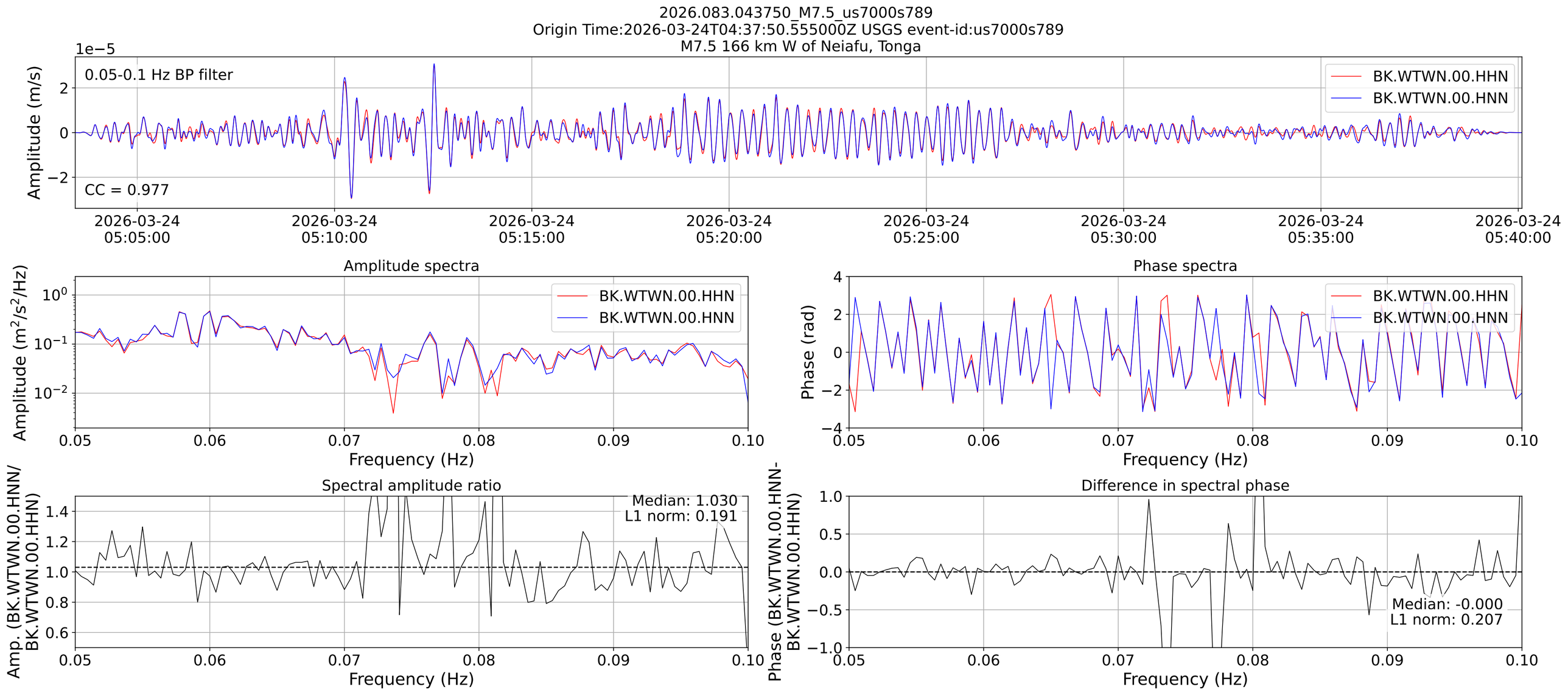

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.997
Amplitude (m/s)
BK.WROK.00.HHZ
BK.WROK.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WROK.00.HNZ/ BK.WROK.00.HHZ)
Median: 0.974
L1 norm: 0.123
Difference in spectral phase
Phase (BK.WROK.00.HNZ- BK.WROK.00.HHZ)
Median: 0.015
L1 norm: 0.113

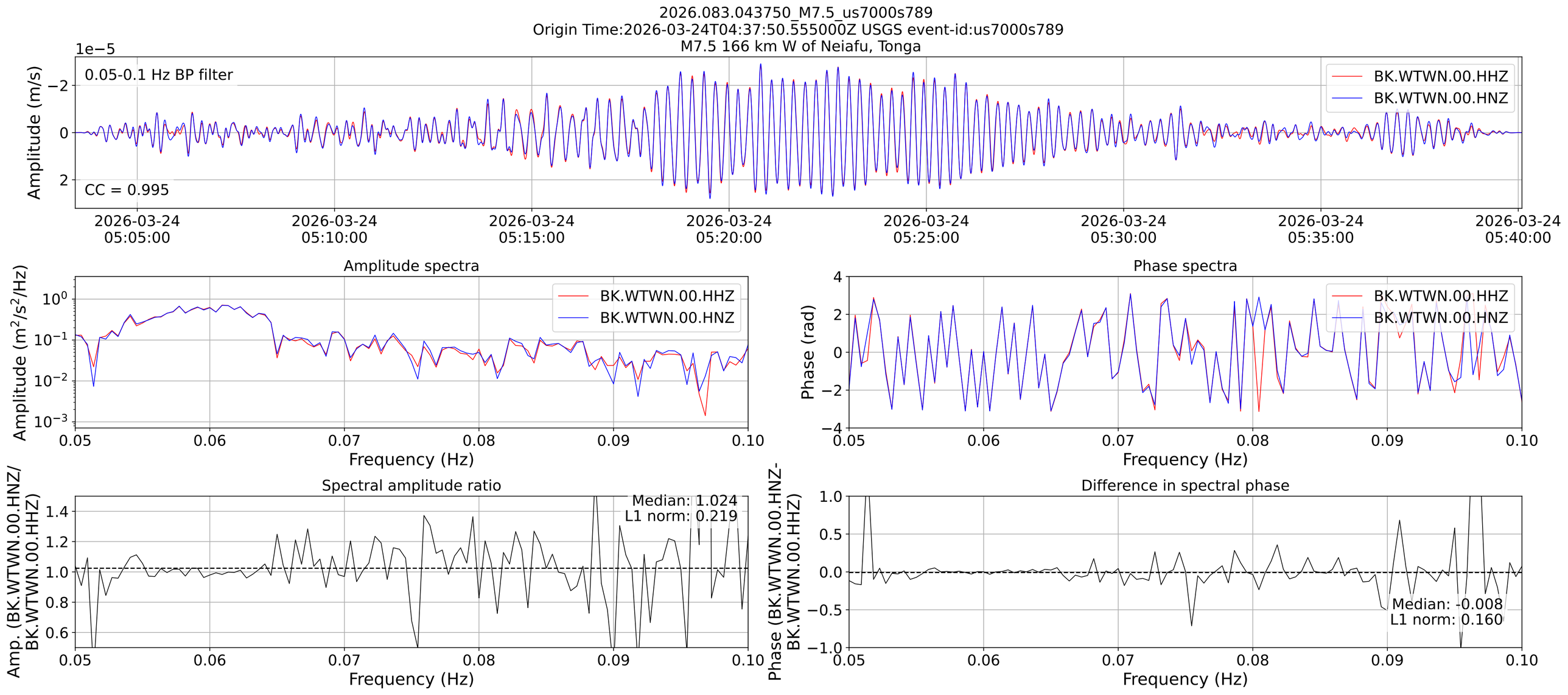

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.WSRE.00.HHE
BK.WSRE.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNE/ BK.WSRE.00.HHE)
Median: 1.022
L1 norm: 0.111
Difference in spectral phase
Phase (BK.WSRE.00.HNE- BK.WSRE.00.HHE)
Median: 0.006
L1 norm: 0.124

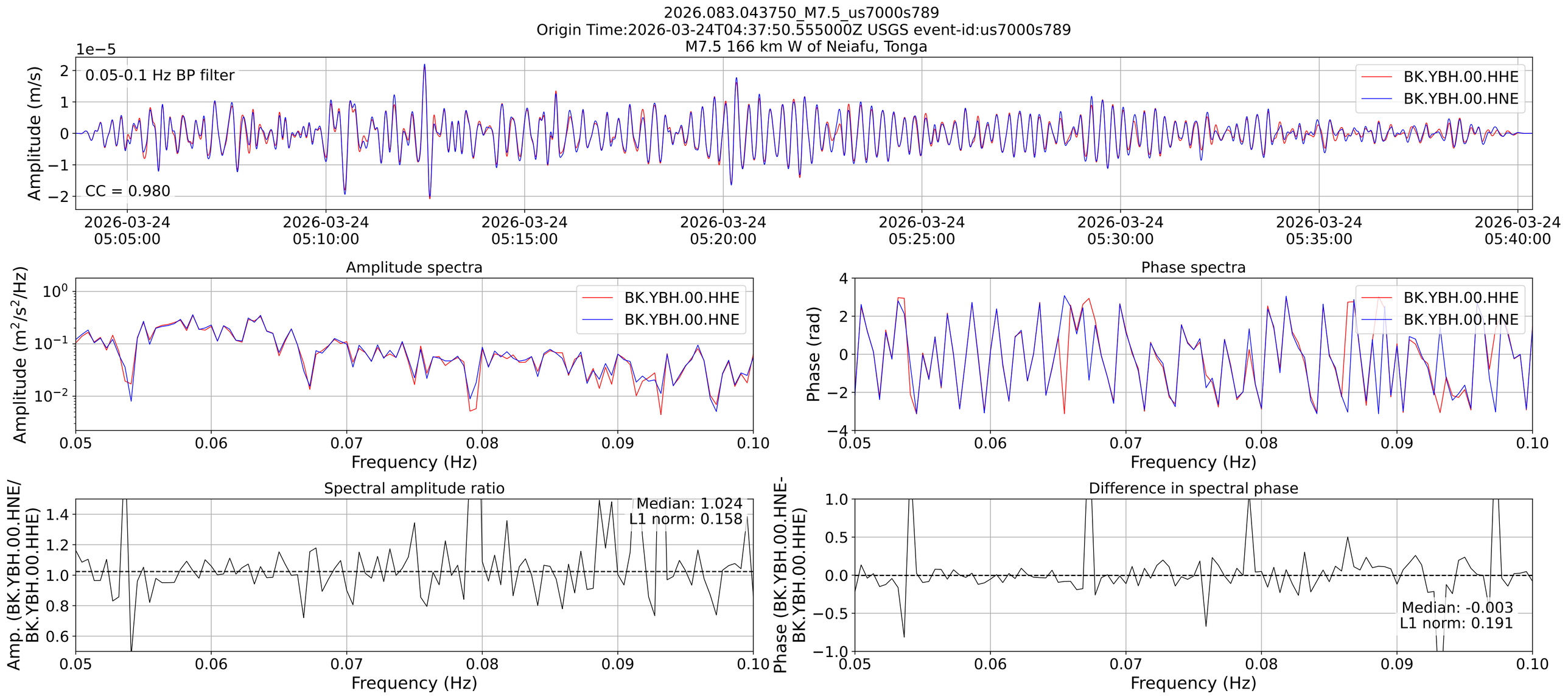

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.994
BK.WSRE.00.HHN
BK.WSRE.00.HNN
Amplitude (m/s)
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNN/ BK.WSRE.00.HHN)
Median: 1.018
L1 norm: 0.102
Difference in spectral phase
Phase (BK.WSRE.00.HNN- BK.WSRE.00.HHN)
Median: 0.007
L1 norm: 0.065

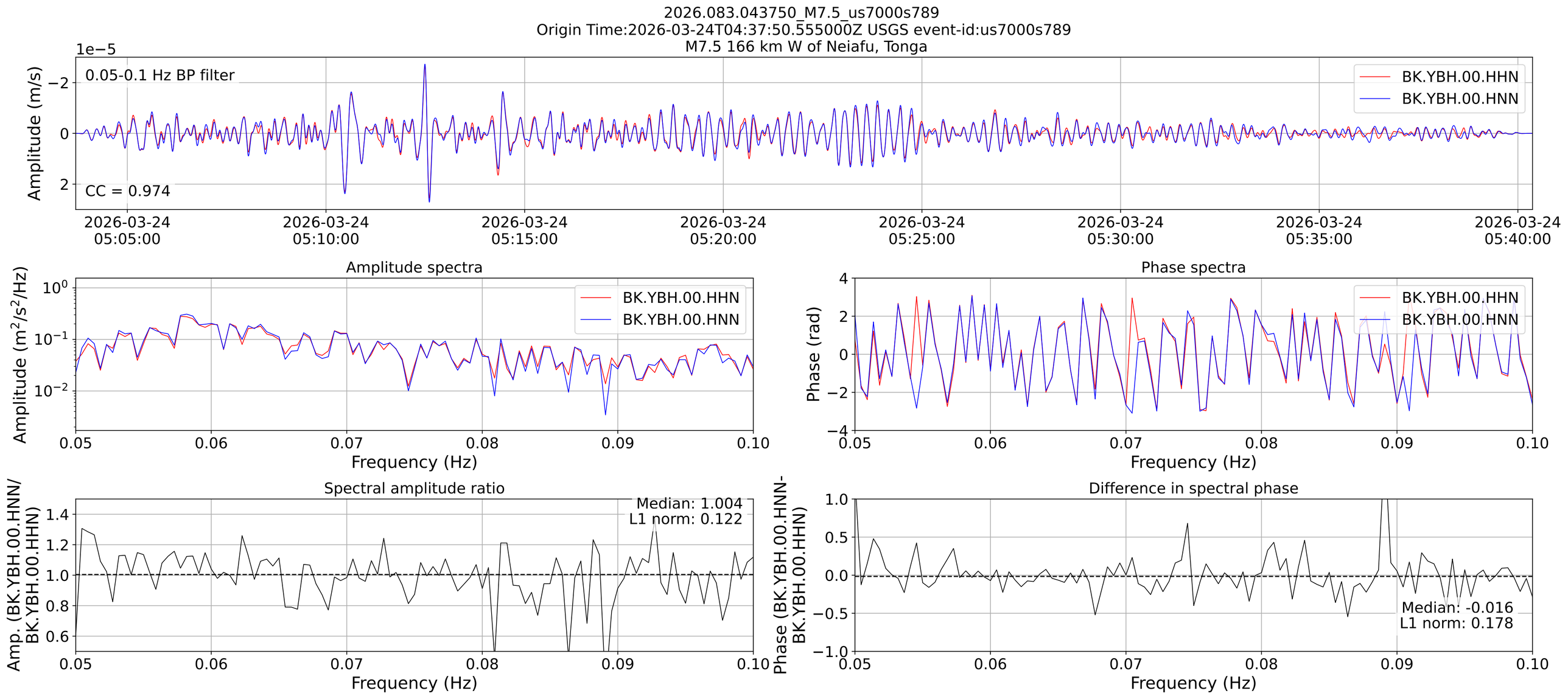

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.972
Amplitude (m/s)
BK.WSRE.00.HHZ
BK.WSRE.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WSRE.00.HNZ/ BK.WSRE.00.HHZ)
Median: 1.013
L1 norm: 0.336
Difference in spectral phase
Phase (BK.WSRE.00.HNZ- BK.WSRE.00.HHZ)
Median: -0.058
L1 norm: 0.281

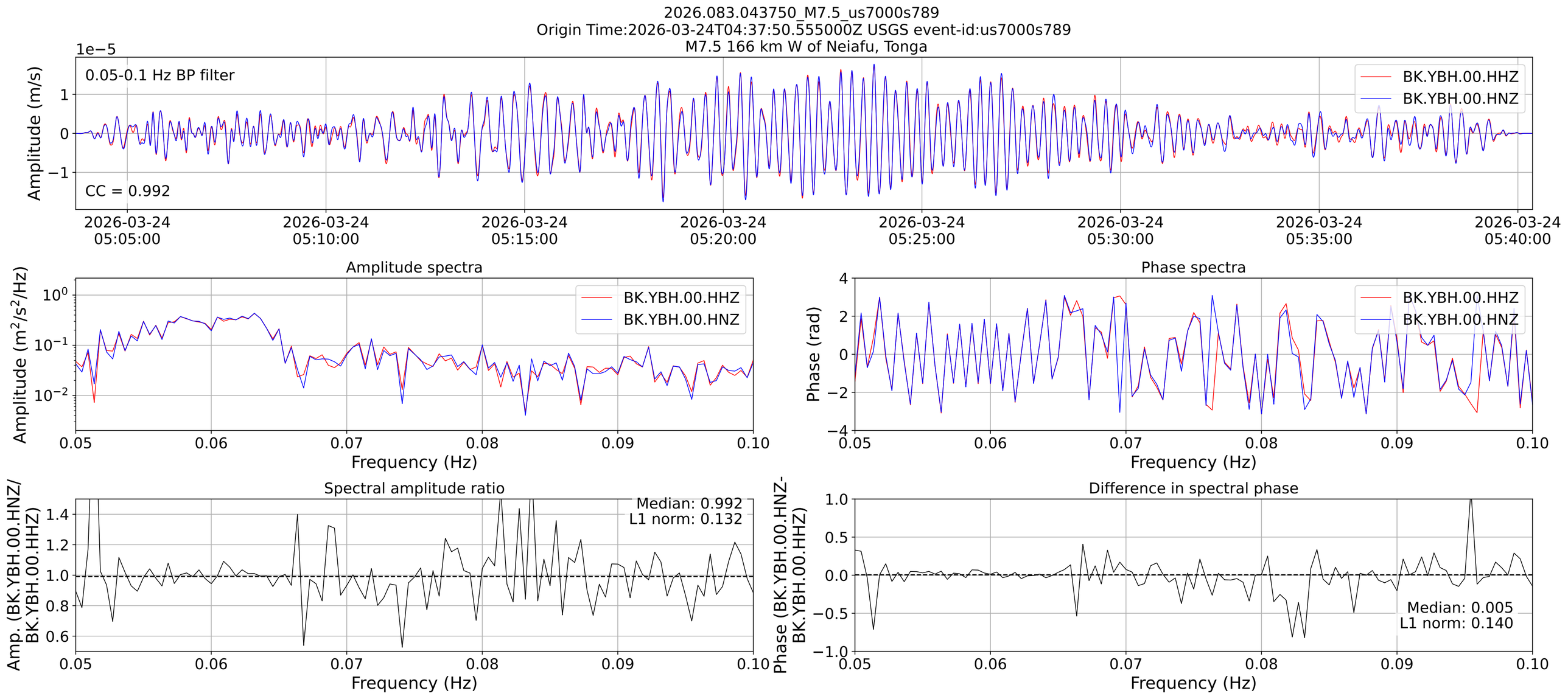

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.969
Amplitude (m/s)
BK.WTWN.00.HHE
BK.WTWN.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNE/ BK.WTWN.00.HHE)
Median: 1.056
L1 norm: 0.209
Difference in spectral phase
Phase (BK.WTWN.00.HNE- BK.WTWN.00.HHE)
Median: 0.004
L1 norm: 0.214

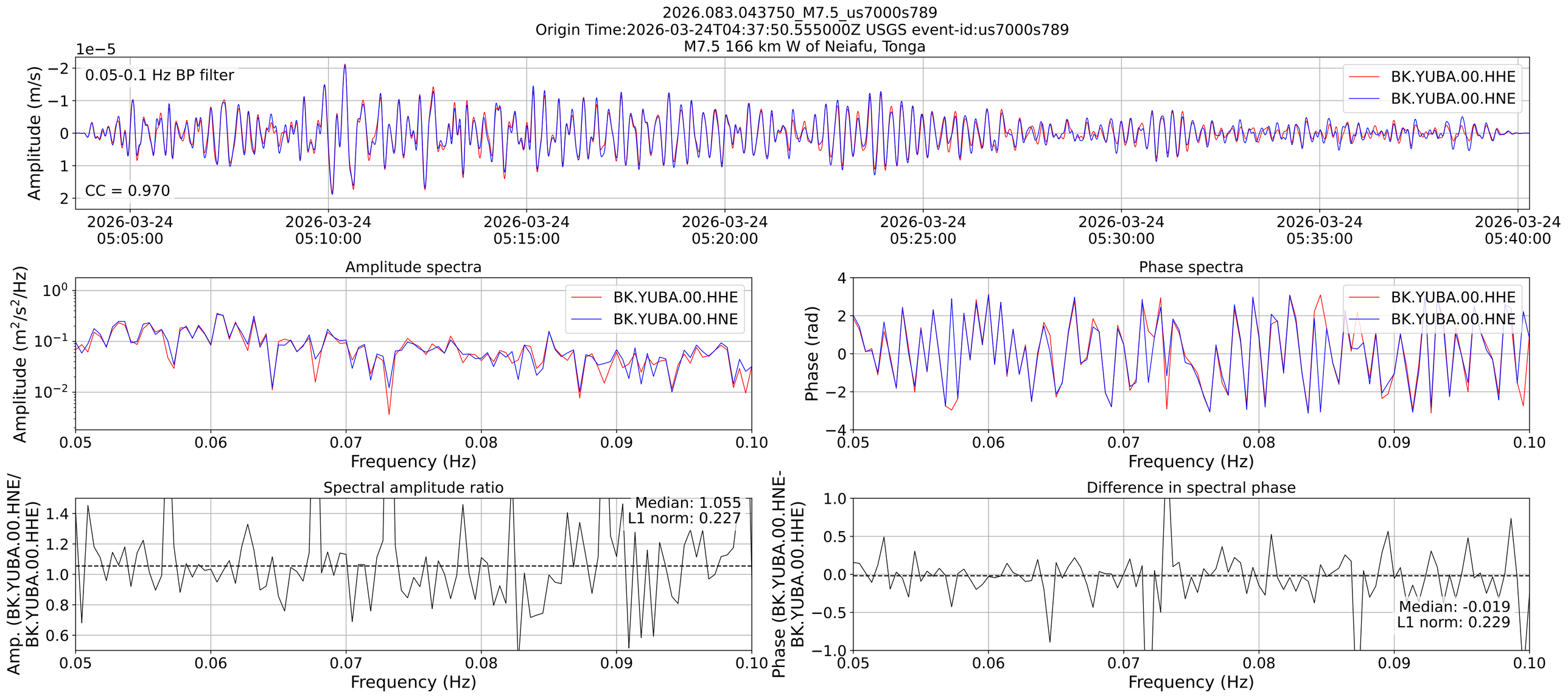

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.977
Amplitude (m/s)
BK.WTWN.00.HHN
BK.WTWN.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNN/ BK.WTWN.00.HHN)
Median: 1.030
L1 norm: 0.191
Difference in spectral phase
Phase (BK.WTWN.00.HNN- BK.WTWN.00.HHN)
Median: -0.000
L1 norm: 0.207

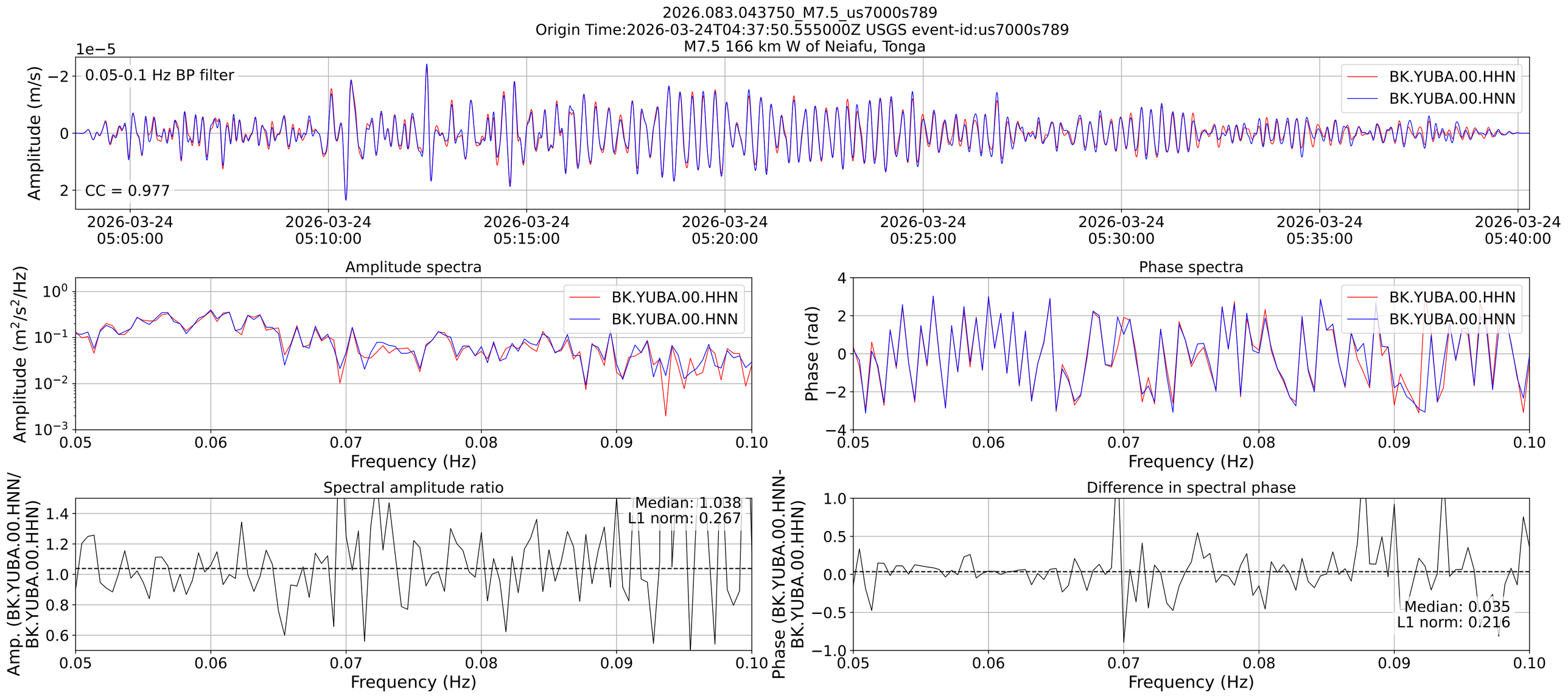

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.995
Amplitude (m/s)
BK.WTWN.00.HHZ
BK.WTWN.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.WTWN.00.HNZ/ BK.WTWN.00.HHZ)
Median: 1.024
L1 norm: 0.219
Difference in spectral phase
Phase (BK.WTWN.00.HNZ- BK.WTWN.00.HHZ)
Median: -0.008
L1 norm: 0.160

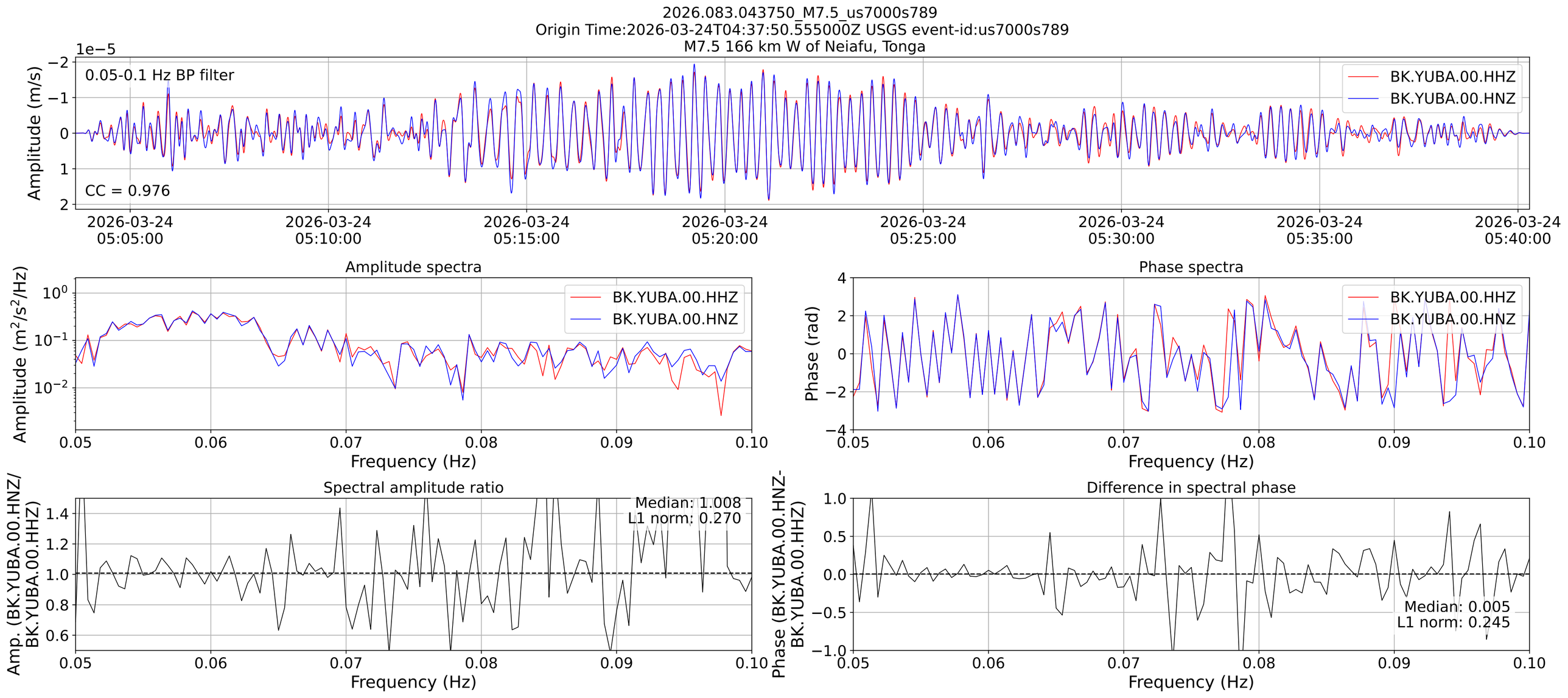

2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.980
BK.YBH.00.HHE
BK.YBH.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNE/ BK.YBH.00.HHE)
Median: 1.024
L1 norm: 0.158
Difference in spectral phase
Phase (BK.YBH.00.HNE- BK.YBH.00.HHE)
Median: -0.003
L1 norm: 0.191


2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.974
Amplitude (m/s)
BK.YBH.00.HHN
BK.YBH.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNN/ BK.YBH.00.HHN)
Median: 1.004
L1 norm: 0.122
Difference in spectral phase
Phase (BK.YBH.00.HNN- BK.YBH.00.HHN)
Median: -0.016
L1 norm: 0.178


2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.992
Amplitude (m/s)
BK.YBH.00.HHZ
BK.YBH.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YBH.00.HNZ/ BK.YBH.00.HHZ)
Median: 0.992
L1 norm: 0.132
Difference in spectral phase
Phase (BK.YBH.00.HNZ- BK.YBH.00.HHZ)
Median: 0.005
L1 norm: 0.140


2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.970
BK.YUBA.00.HHE
BK.YUBA.00.HNE
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNE/ BK.YUBA.00.HHE)
Median: 1.055
L1 norm: 0.227
Difference in spectral phase
Phase (BK.YUBA.00.HNE- BK.YUBA.00.HHE)
Median: -0.019
L1 norm: 0.229


2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
Amplitude (m/s)
0.05-0.1 Hz BP filter
CC = 0.977
BK.YUBA.00.HHN
BK.YUBA.00.HNN
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNN/ BK.YUBA.00.HHN)
Median: 1.038
L1 norm: 0.267
Difference in spectral phase
Phase (BK.YUBA.00.HNN- BK.YUBA.00.HHN)
Median: 0.035
L1 norm: 0.216


2026.083.043750_M7.5_us7000s789
Origin Time:2026-03-24T04:37:50.555000Z USGS event-id:us7000s789
M7.5 166 km W of Neiafu, Tonga
1e−5
0.05-0.1 Hz BP filter
CC = 0.976
Amplitude (m/s)
BK.YUBA.00.HHZ
BK.YUBA.00.HNZ
2026-03-24 05:05:00
2026-03-24 05:10:00
2026-03-24 05:15:00
2026-03-24 05:20:00
2026-03-24 05:25:00
2026-03-24 05:30:00
2026-03-24 05:35:00
2026-03-24 05:40:00
Amplitude spectra
Amplitude (m²/s²/Hz)
Frequency (Hz)
Phase spectra
Phase (rad)
Spectral amplitude ratio
Amp. (BK.YUBA.00.HNZ/ BK.YUBA.00.HHZ)
Median: 1.008
L1 norm: 0.270
Difference in spectral phase
Phase (BK.YUBA.00.HNZ- BK.YUBA.00.HHZ)
Median: 0.005
L1 norm: 0.245