

Supplementary Information 2

Decomposed SH-, SV-, and P-wavefields and their visualizations for interpretation of reproduced synthetic waves in the Osaka sedimentary basin, Japan, due to a Mw 5.6 earthquake beneath its edge

Hirotooshi Uebayashi¹ and Haruko Sekiguchi²

Supplementary information on observed and reproduced (full wave and each wave type)
waveforms at observation stations

¹ Institute for Integrated Radiation and Nuclear Science, Kyoto University

² Disaster Prevention Research Institute, Kyoto University

Table of content:

Figure S1 Contour map of the depths of the sediment-bedrock interface and strong-motion observation points

Figure S2(a) Observed and reproduced (full wave and each wave type) waveforms at measurement stations in the area A shown in Fig. S1

Figure S2(b) For 0.125-0.25 Hz bandpass filter

Figure S2(c) For 0.25-0.5 Hz bandpass filter

Figure S2(d) For 0.5-1 Hz bandpass filter

Figure S3(a) For the area B

Figure S3(b) For 0.125-0.25 Hz bandpass filter

Figure S3(c) For 0.25-0.5 Hz bandpass filter

Figure S3(d) For 0.5-1 Hz bandpass filter

Figure S4(a) For the area C

Figure S4(b) For 0.125-0.25 Hz bandpass filter

Figure S4(c) For 0.25-0.5 Hz bandpass filter

Figure S4(d) For 0.5-1 Hz bandpass filter

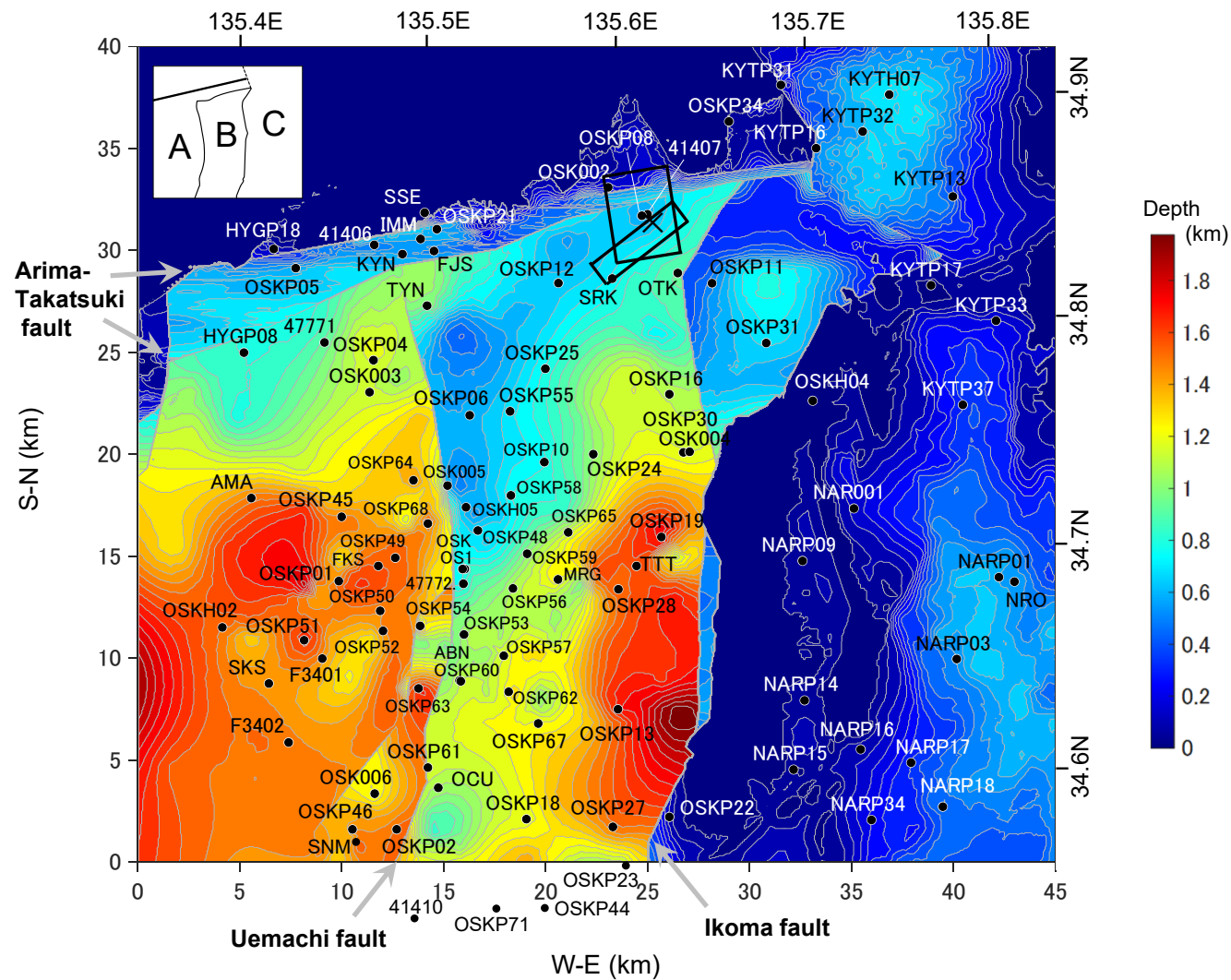


Figure S1 Contour map of the depths of the sediment-bedrock interface and strong-motion observation points

Area-A

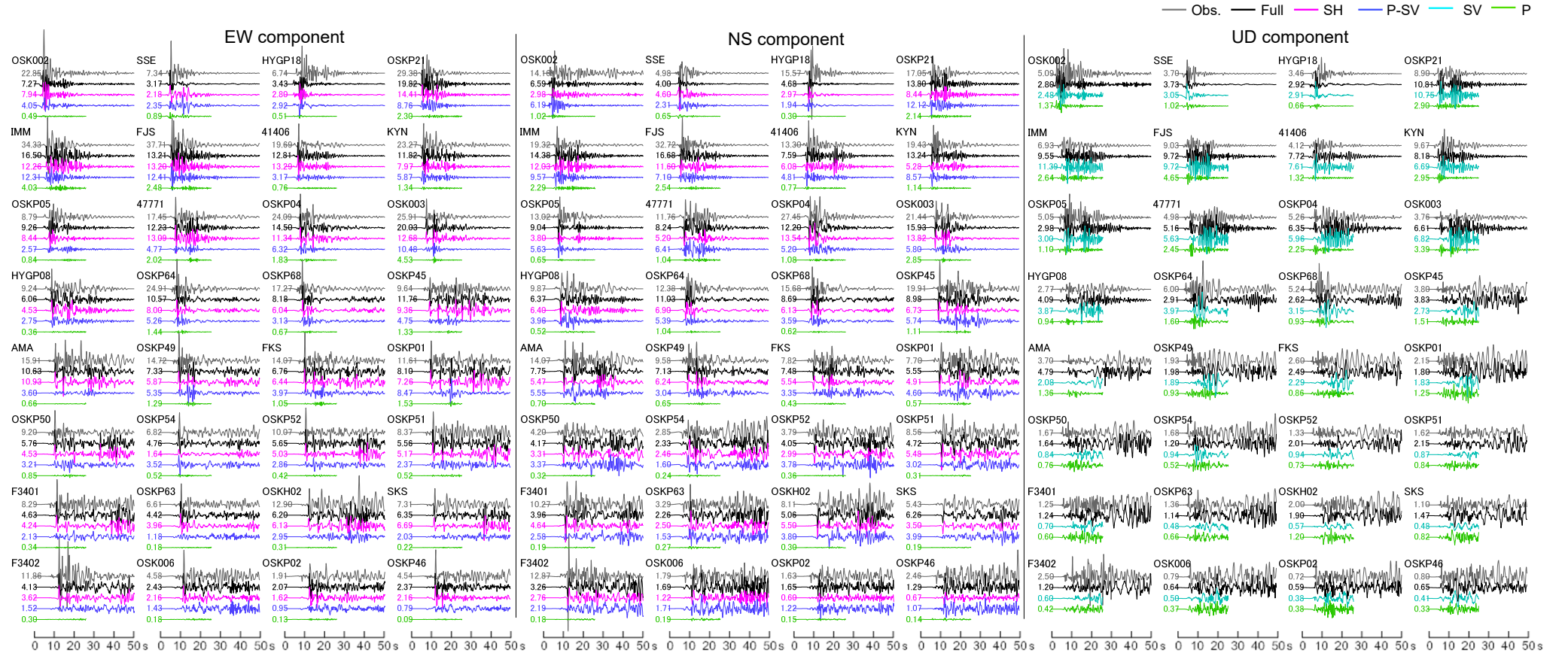


Figure S2(a) Observed and reproduced (full wave and each wave type) waveforms at stations in the area A shown in Fig. S1

Area-A (BP1)

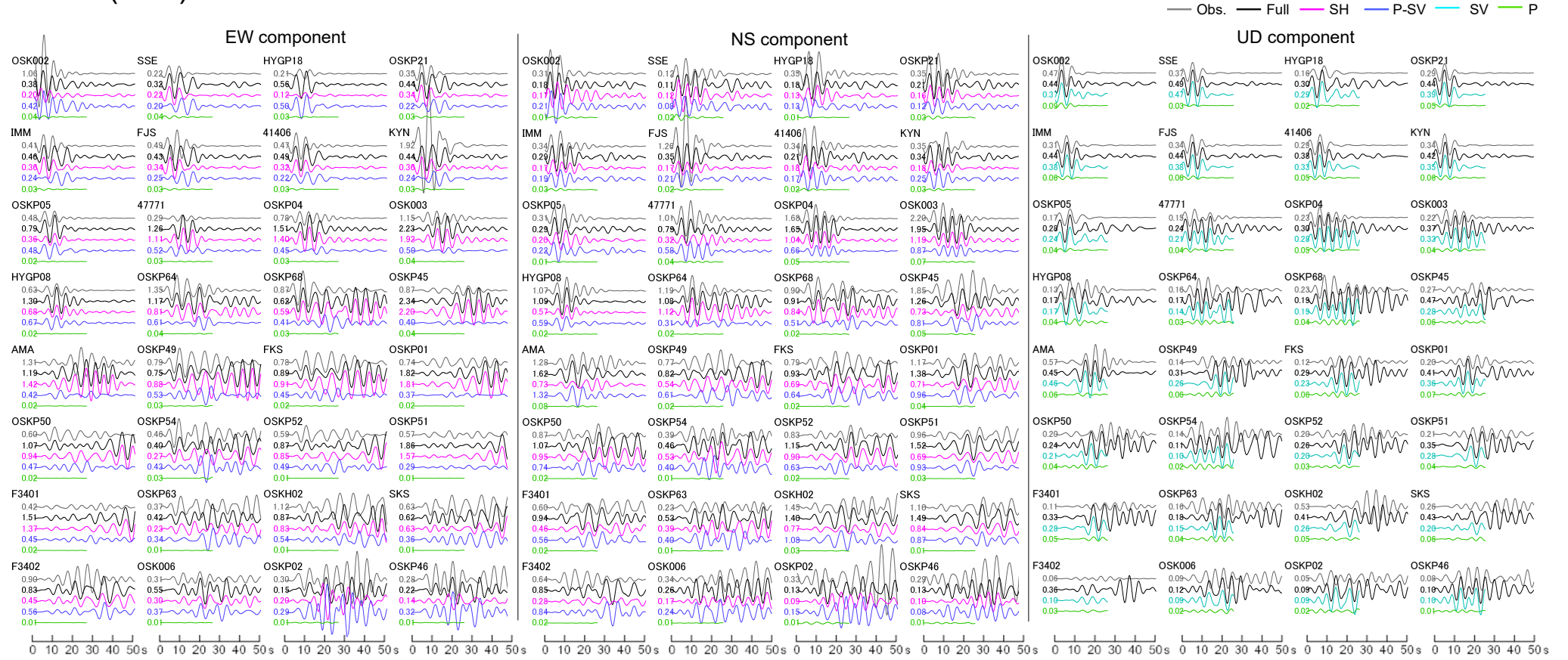


Figure S2(b) For 0.125-0.25 Hz bandpass filter

Area-A (BP2)

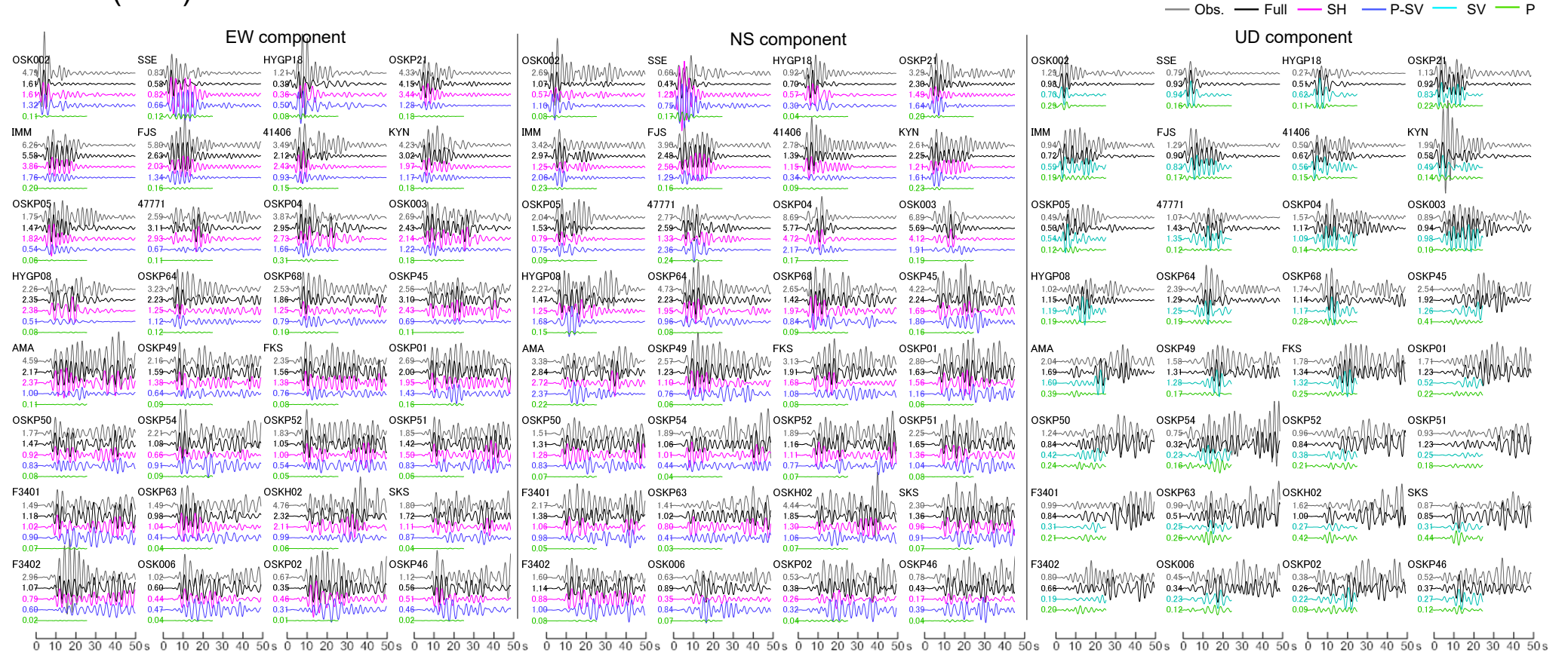


Figure S2(c) For 0.25-0.5 Hz bandpass filter

Area-A (BP3)

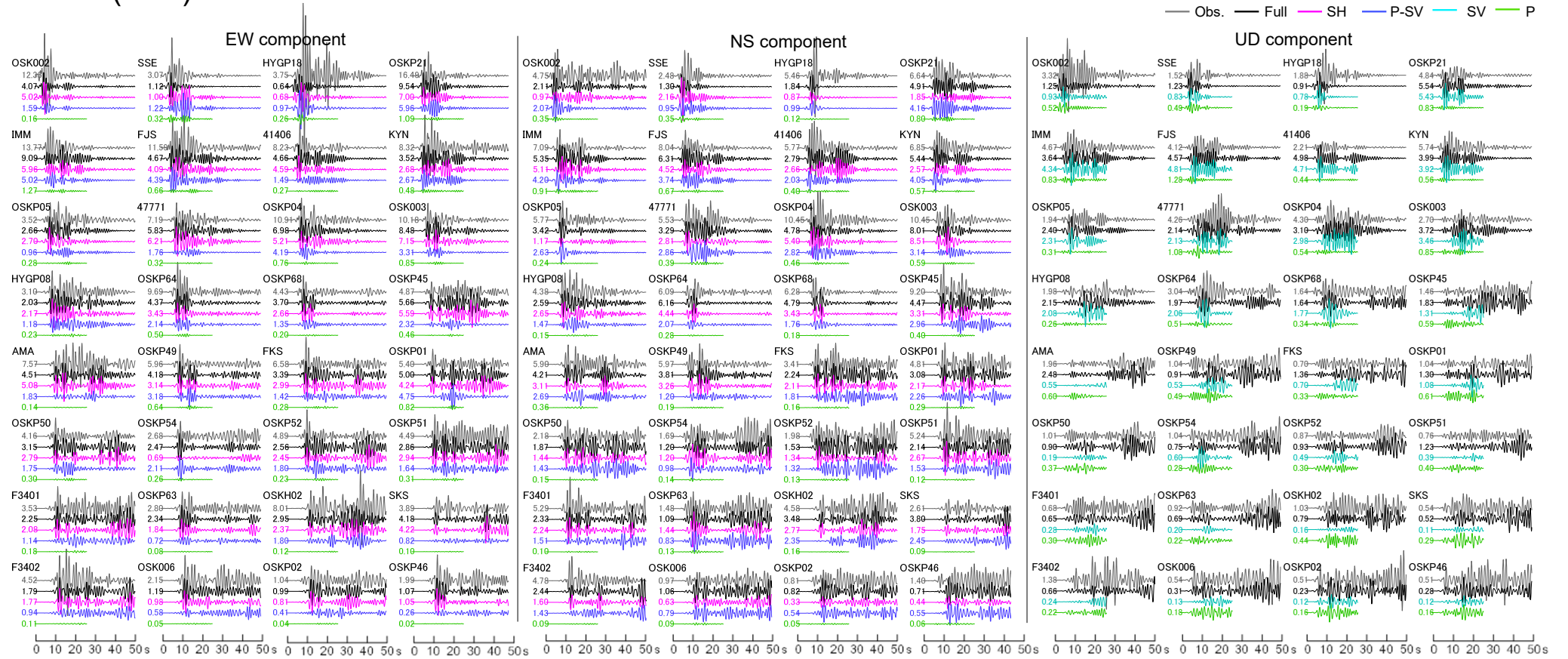


Figure S2(d) For 0.5-1 Hz bandpass filter

Area-B



Figure S3(a) For the area B

Area-B (BP1)



Figure S3(b) For 0.125-0.25 Hz bandpass filter

Area-B (BP2)

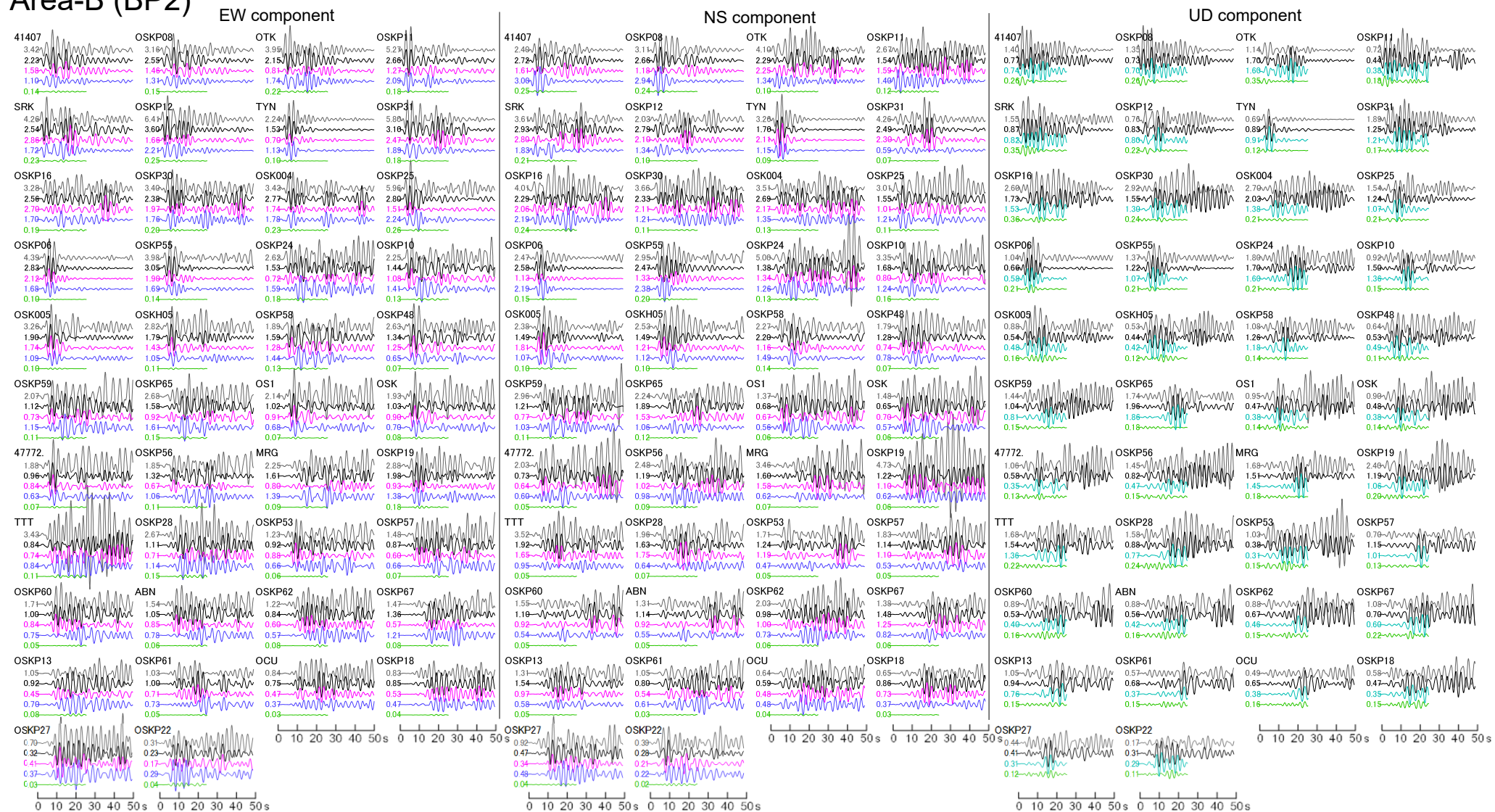


Figure S3(c) For 0.25-0.5 Hz bandpass filter

Area-B (BP3)

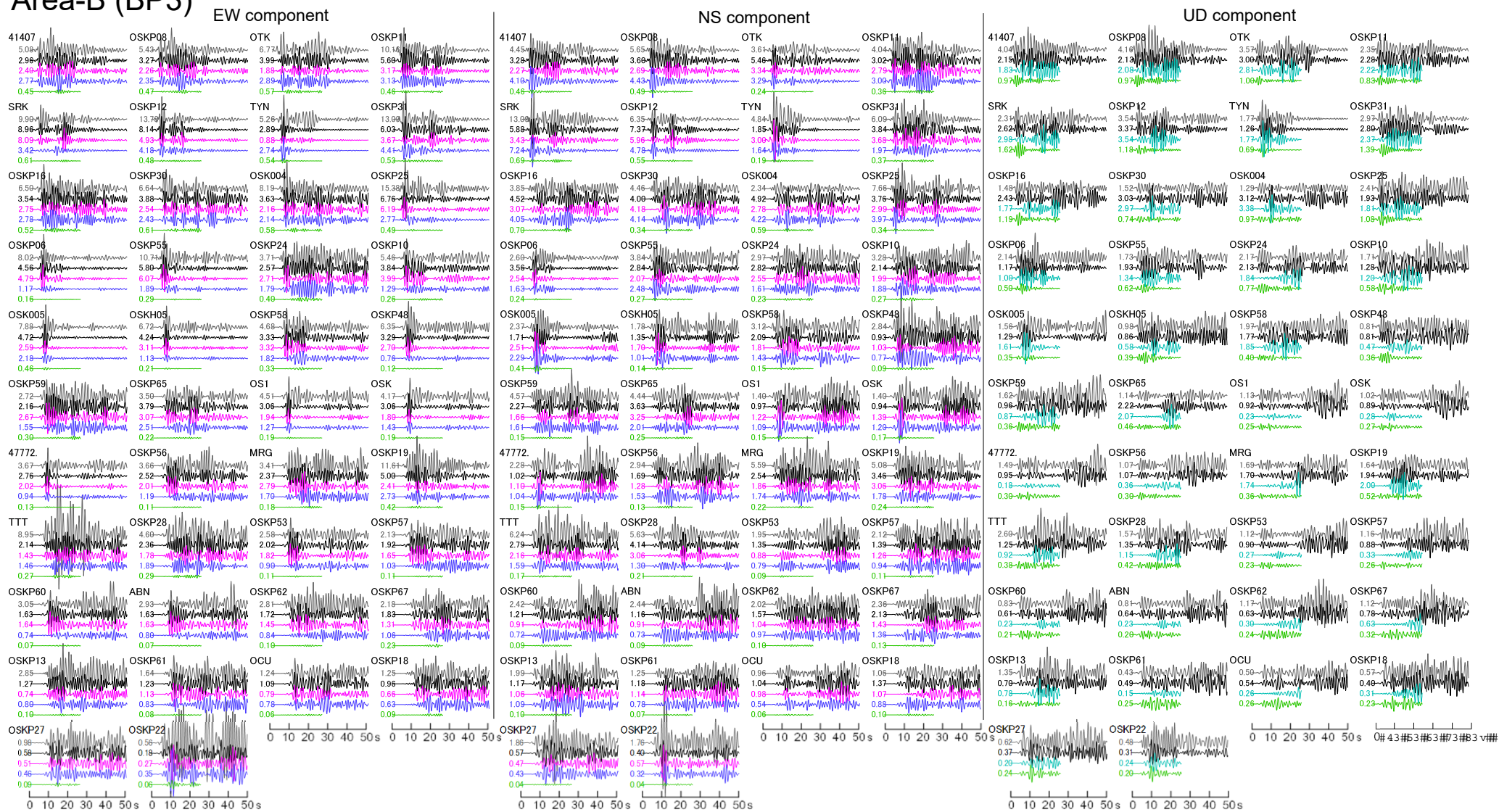


Figure S3(d) For 0.5-1 Hz bandpass filter

Area-C

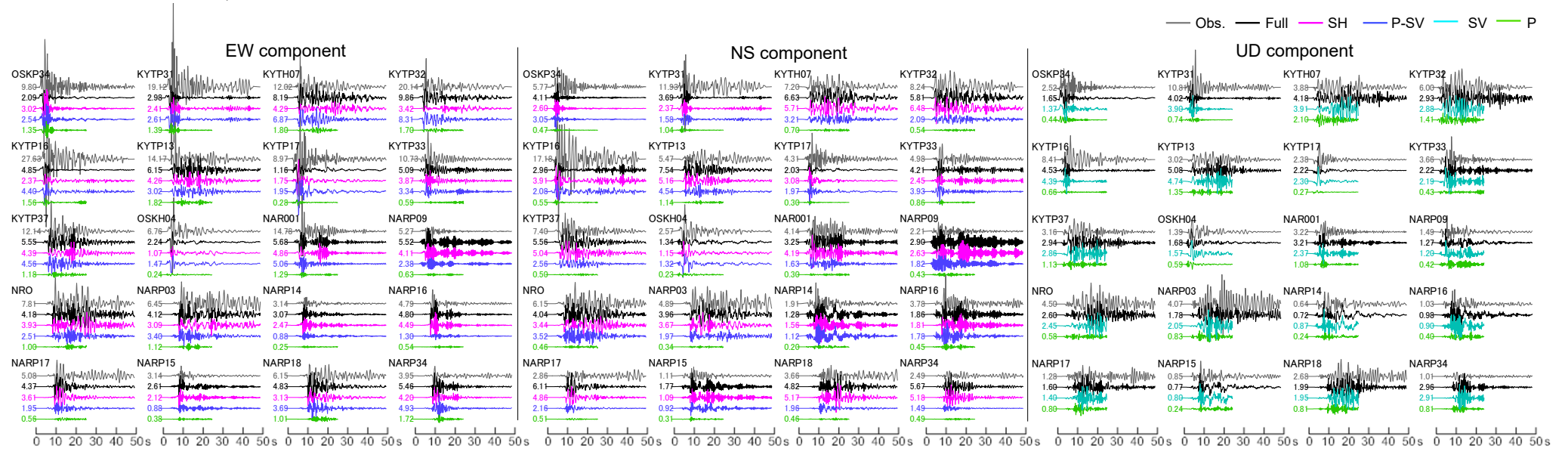


Figure S4(a) For the area C

Area-C (BP1)

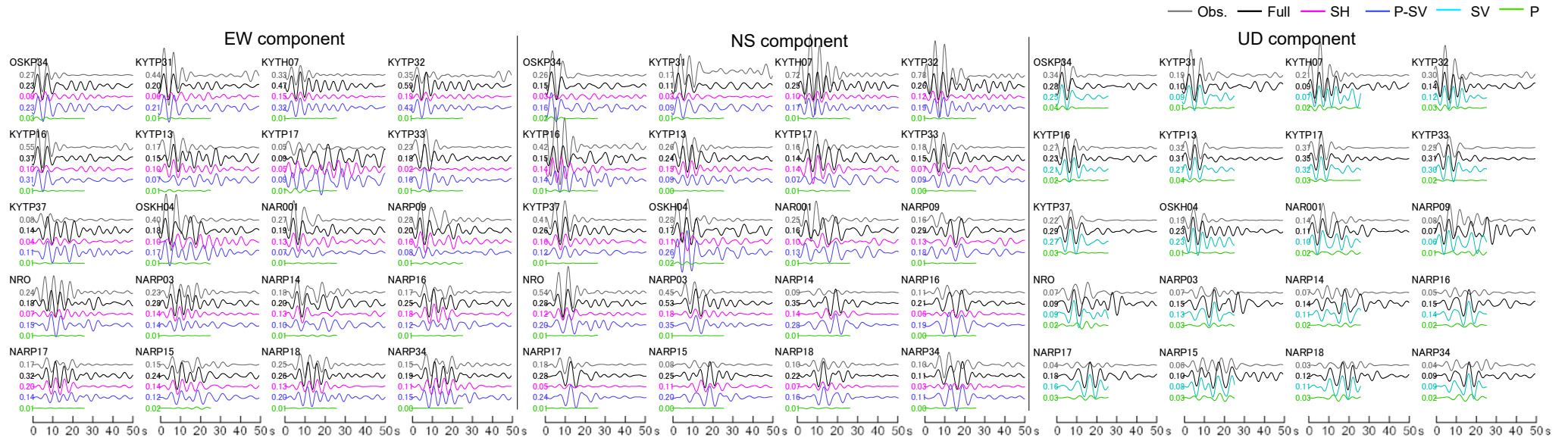


Figure S4(b) For 0.125-0.25 Hz bandpass filter

Area-C (BP2)

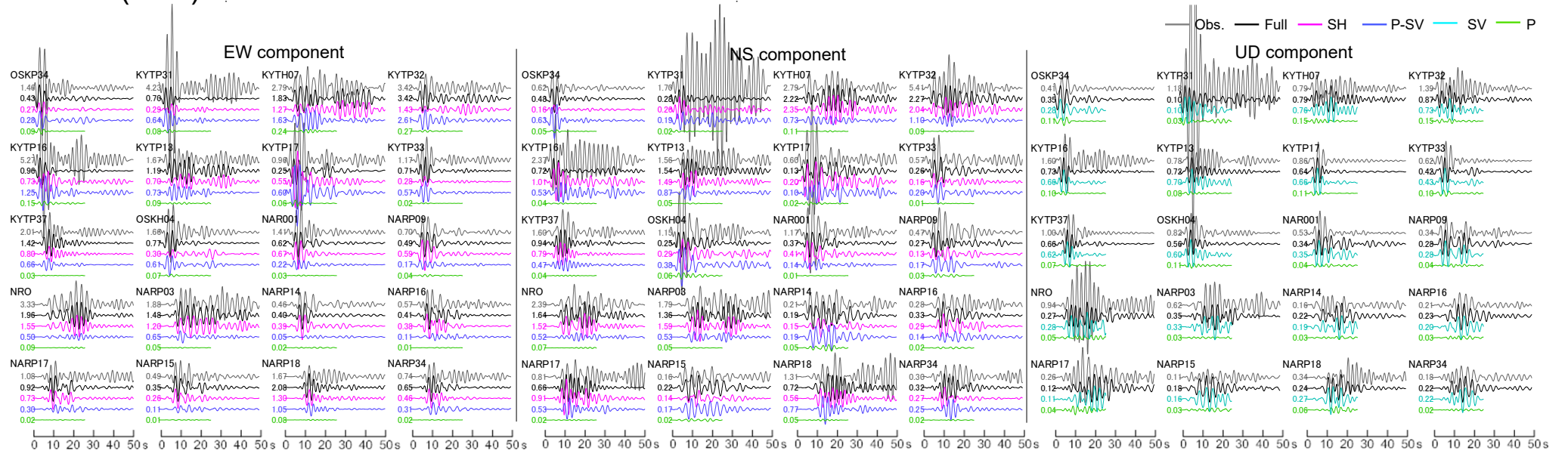


Figure S4(c) For 0.25-0.5 Hz bandpass filter

Area-C (BP3)

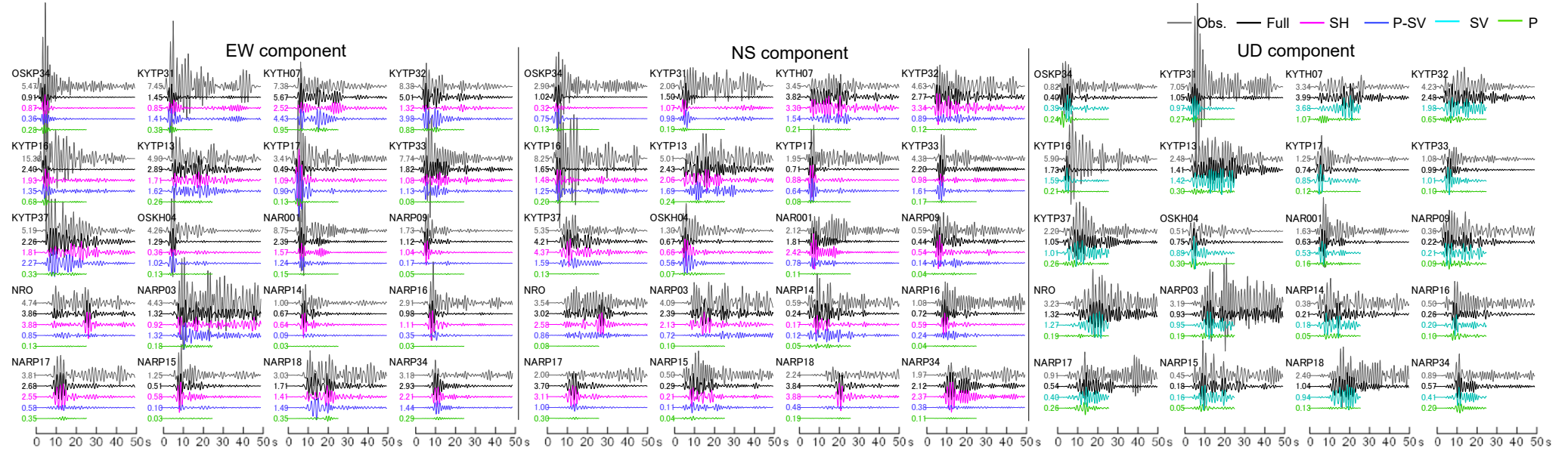


Figure S4(d) For 0.5-1 Hz bandpass filter