

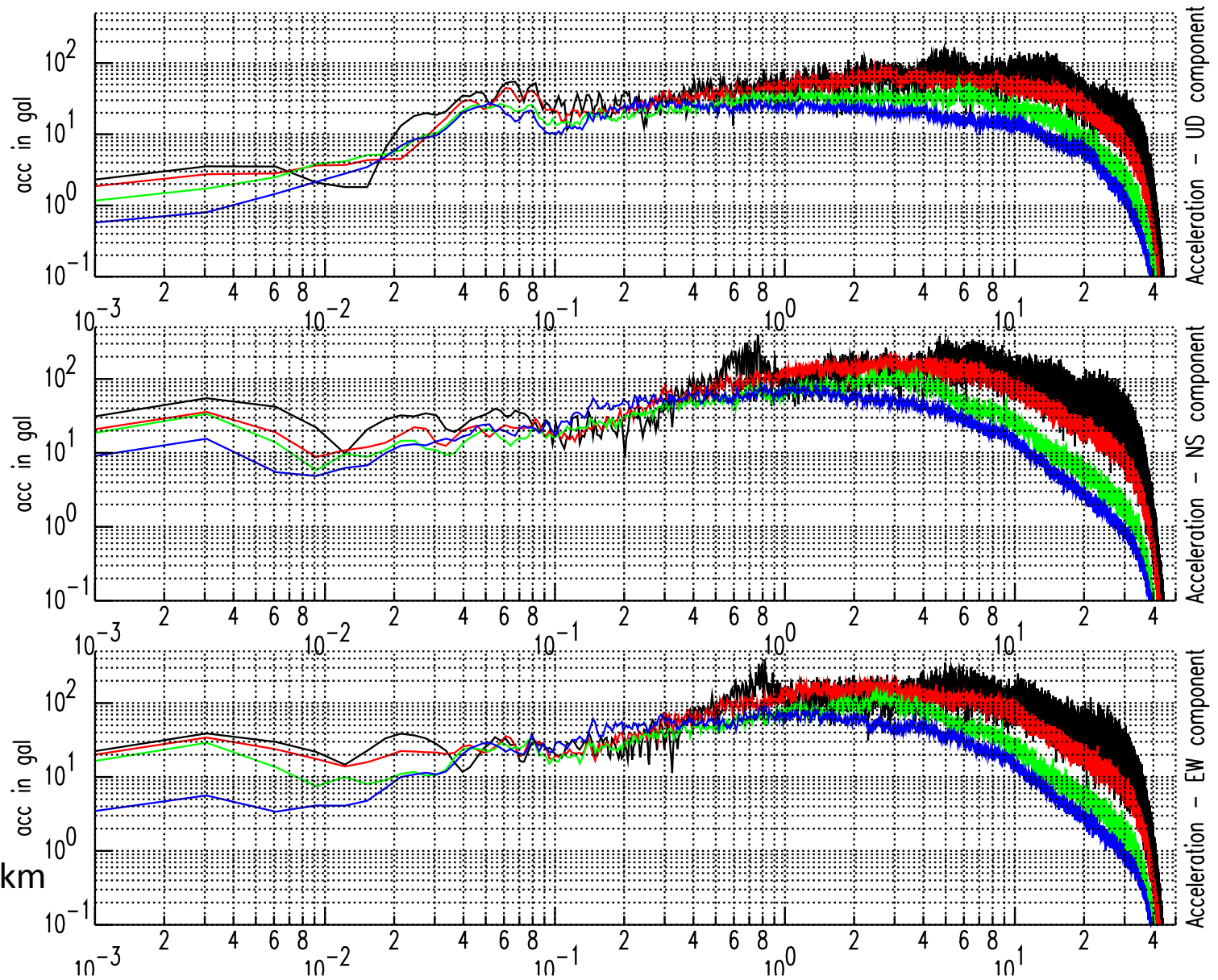
M9.0 Japan earthquake
03/11/2011

Red triangles: strong-motion
stations

Sampling rate: 100 sps

Slip model: Chen Ji (model3)

Spectral analysis of strong-motion records (acceleration)



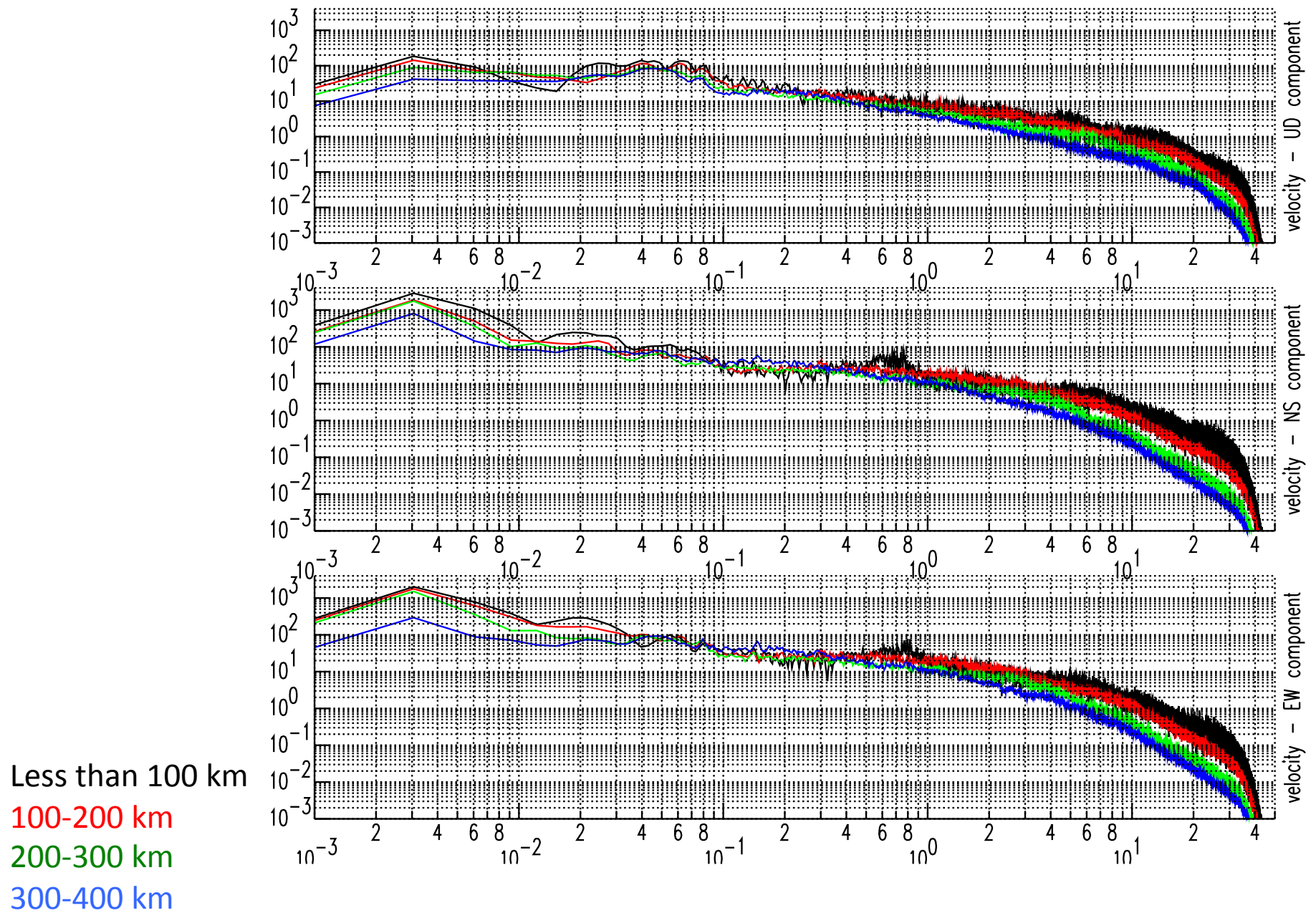
Less than 100 km

100-200 km

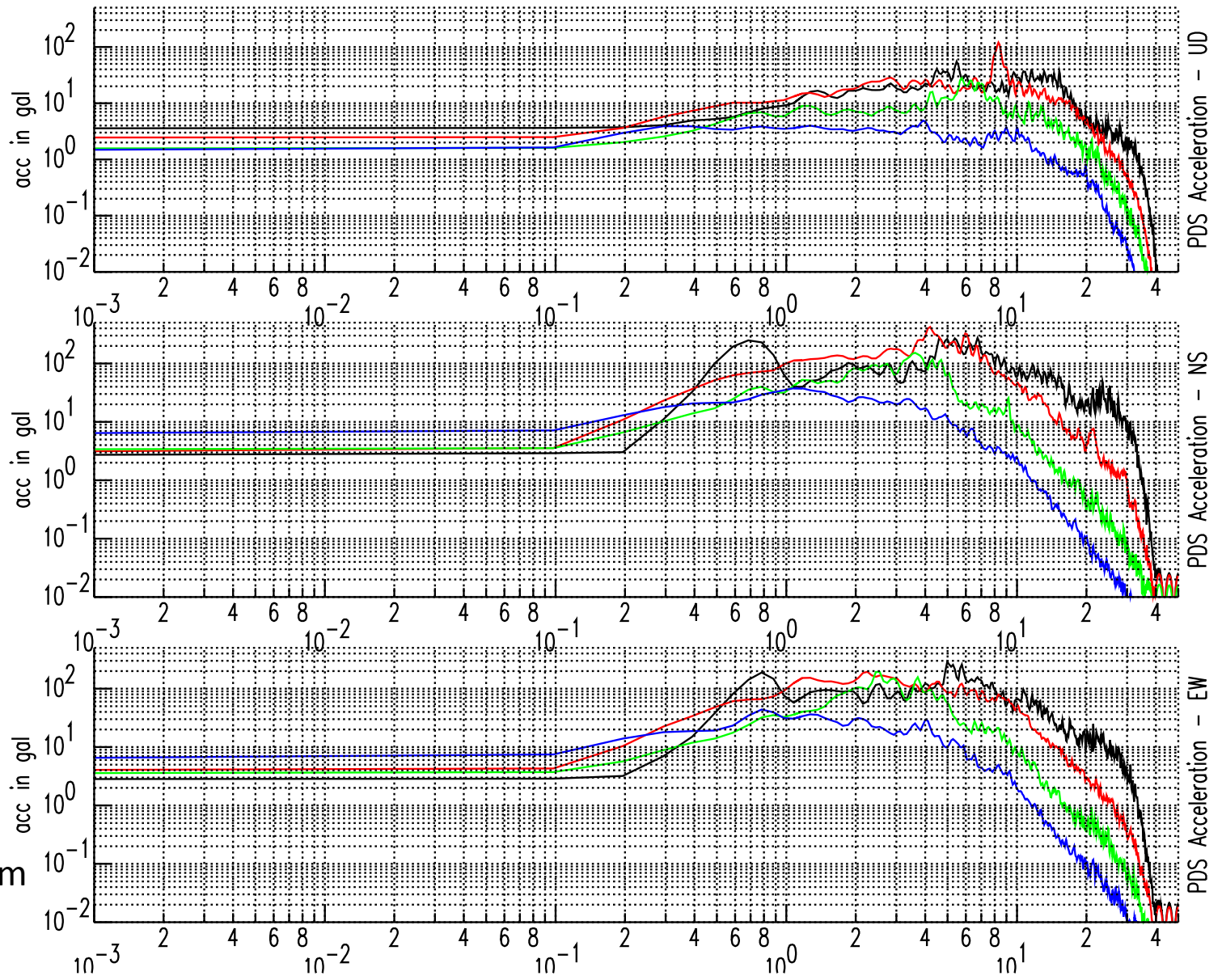
200-300 km

300-400 km

Spectral analysis of strong-motion records (velocity)



Power Density Spectra analysis of strong-motion records (acceleration)



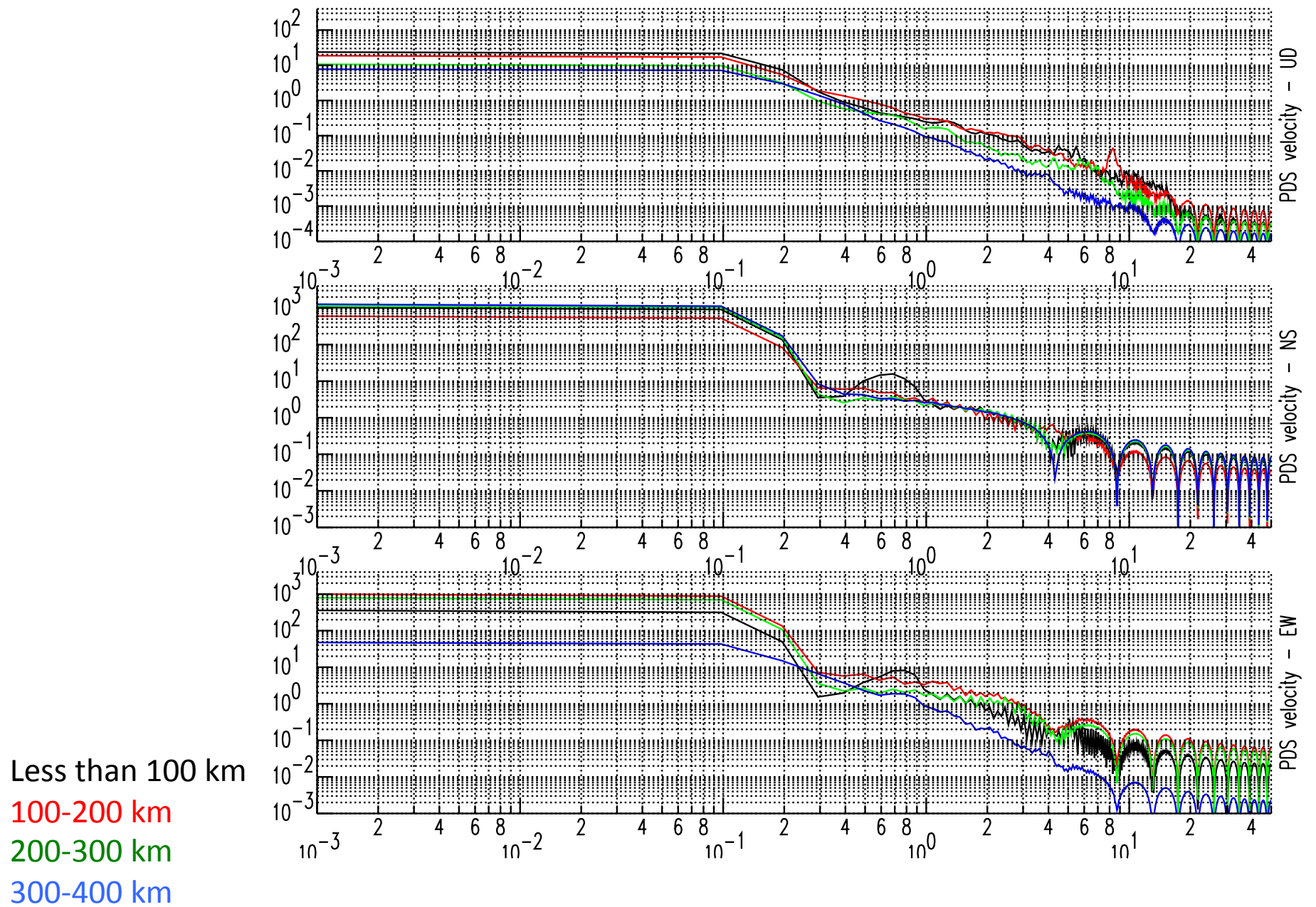
Less than 100 km

100-200 km

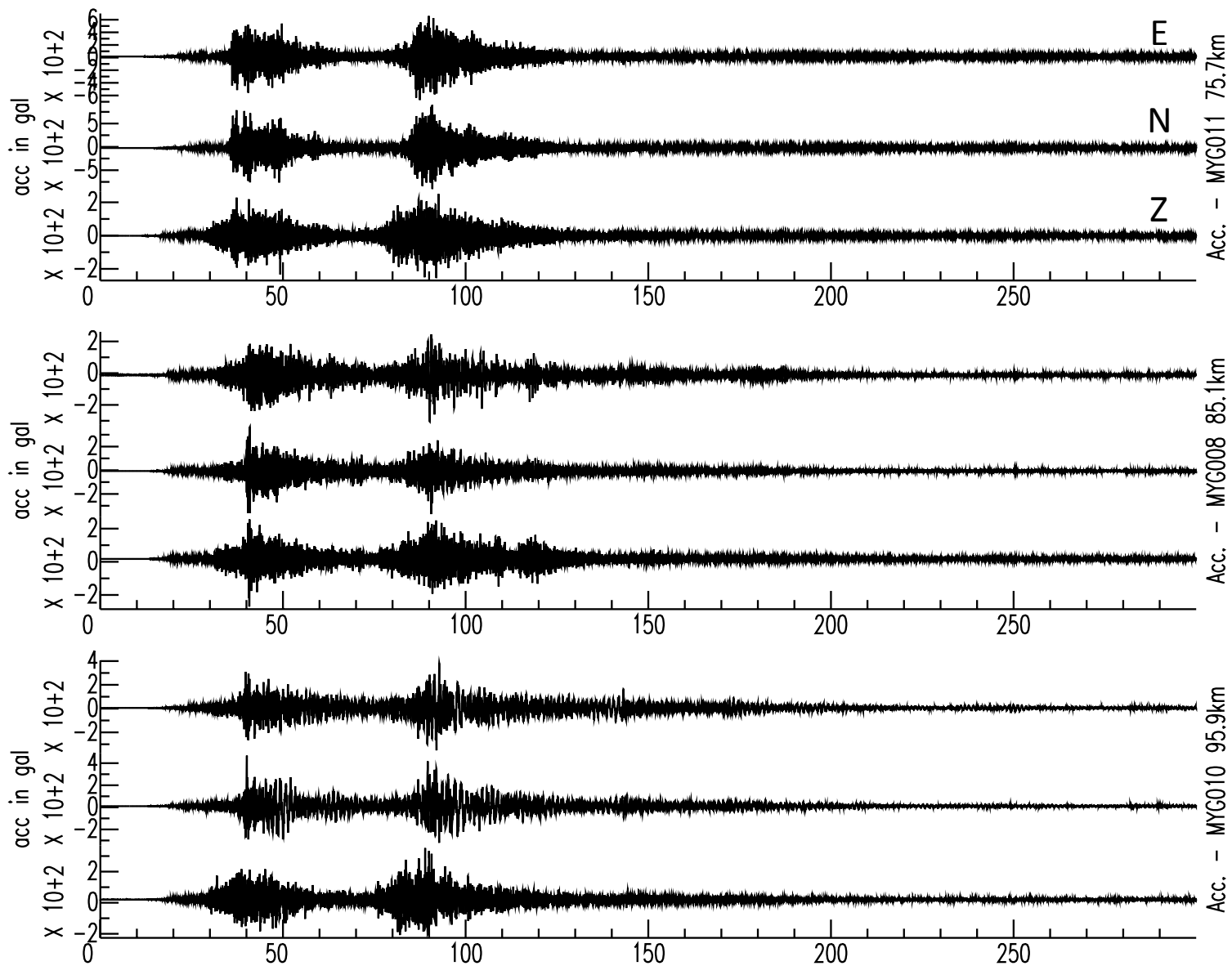
200-300 km

300-400 km

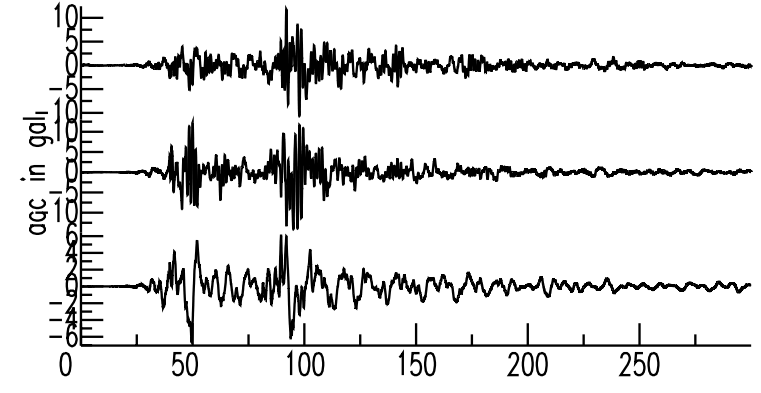
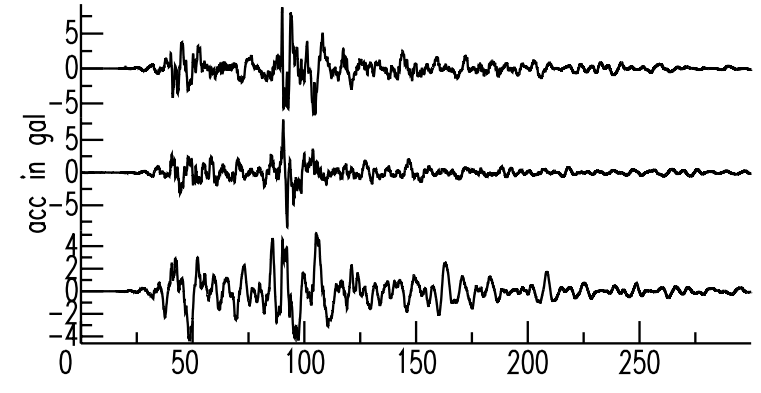
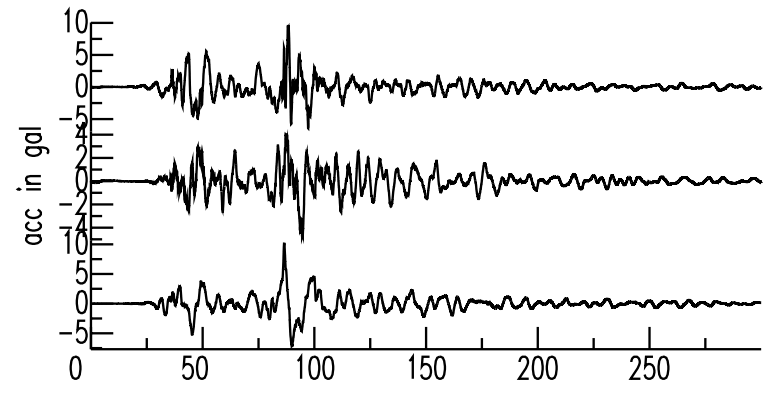
Power Density Spectra analysis of strong-motion records (velocity)



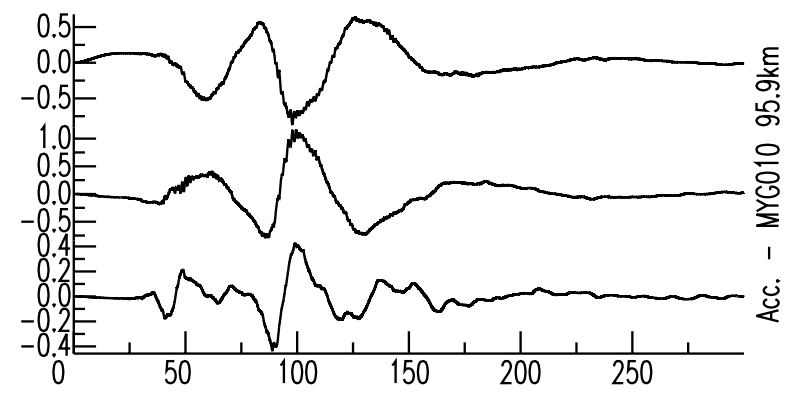
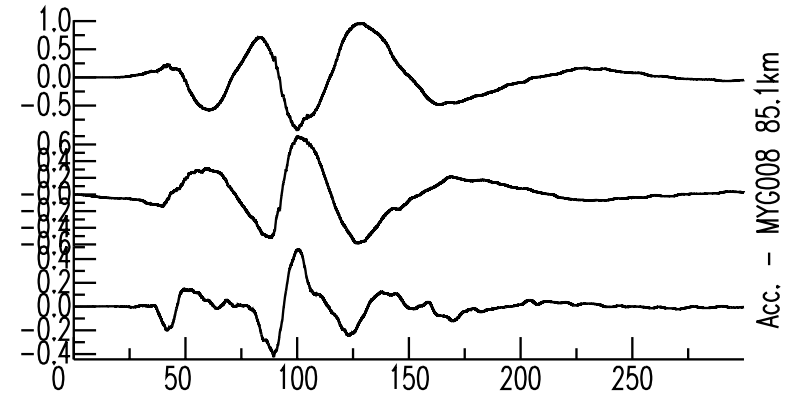
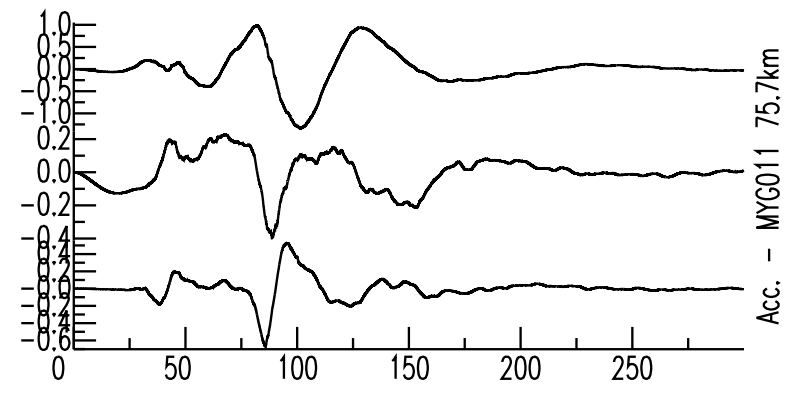
Less than 100 km from epicenter (4 stations total)



5-20 sec
bp co 0.05 0.2 p 1



50-200 sec
bp co 0.005 0.02 p 1

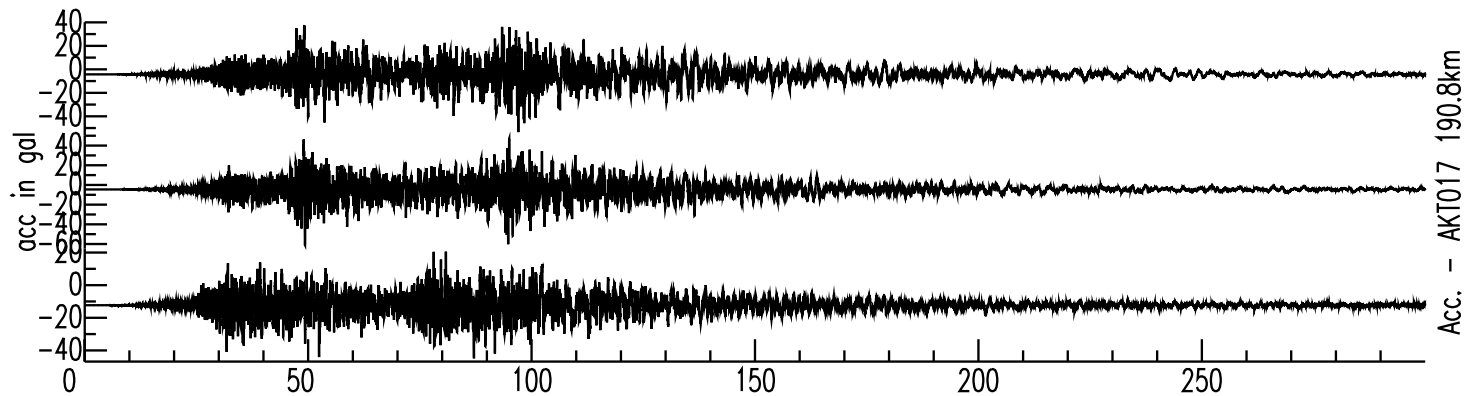
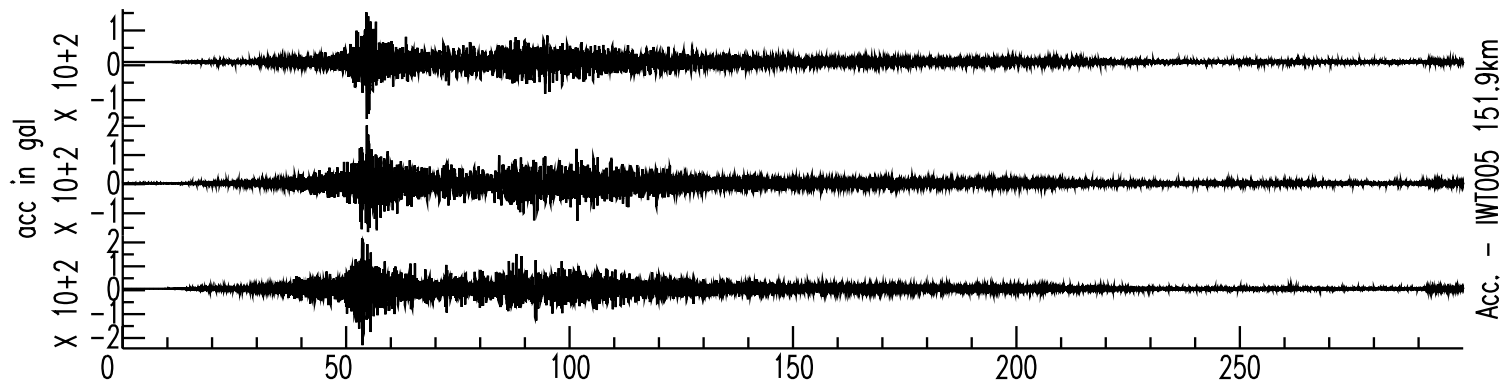
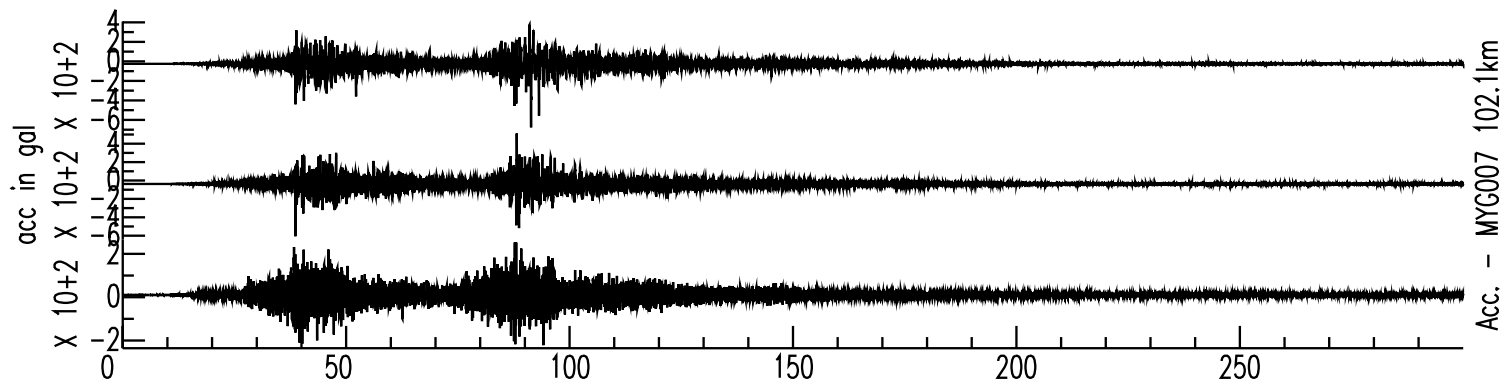


Acc. - MYG011 75.7km

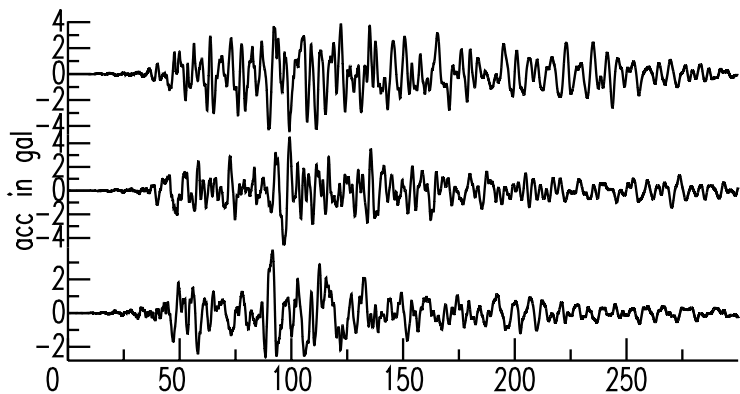
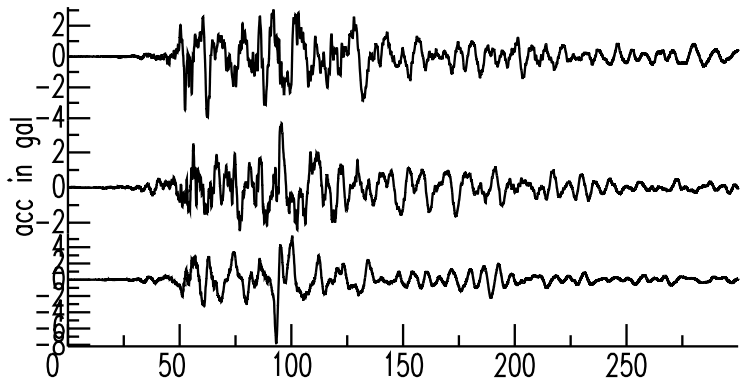
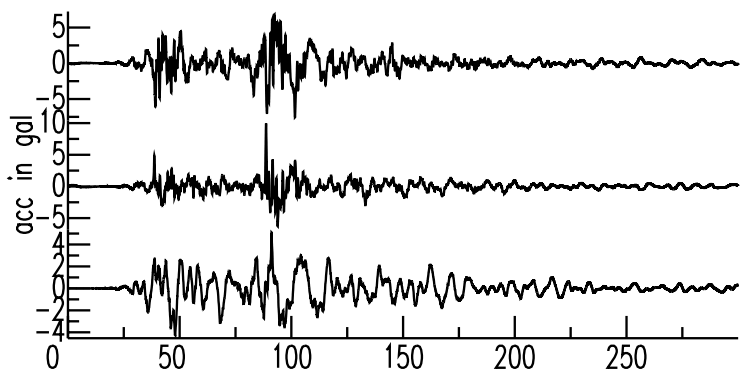
Acc. - MYG008 85.1km

Acc. - MYG010 95.9km

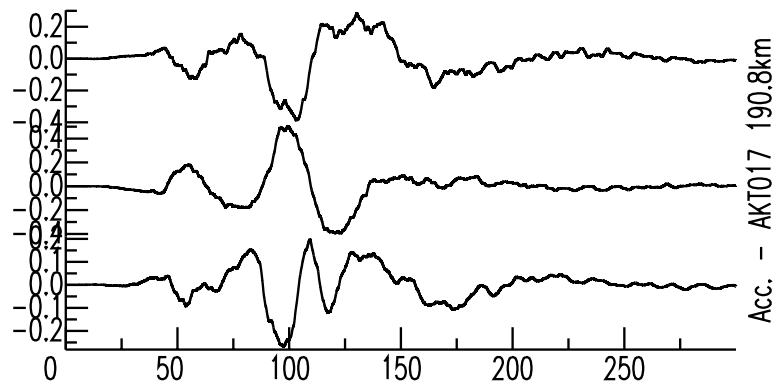
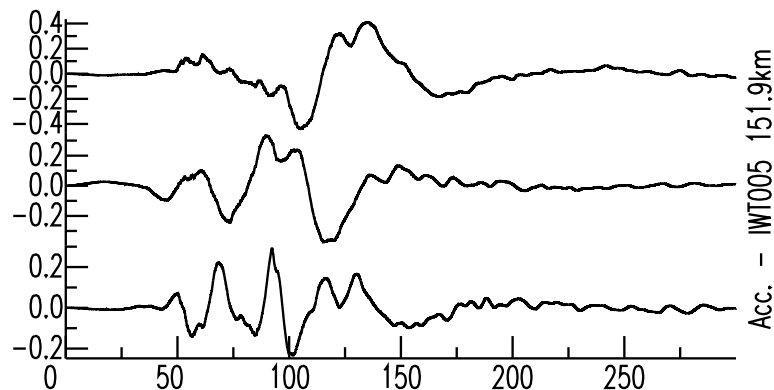
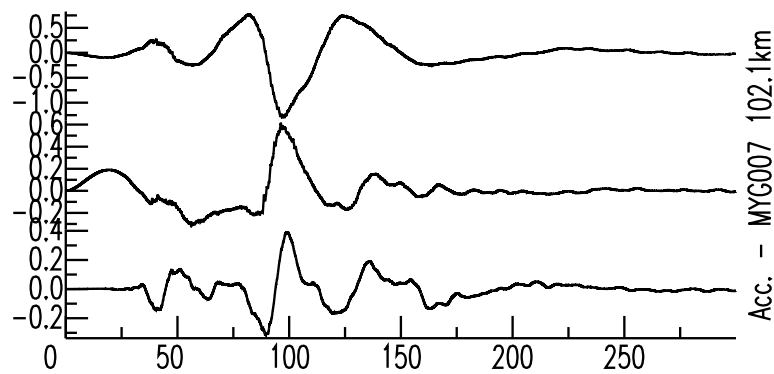
100-200 km from epicenter (27 stations total)



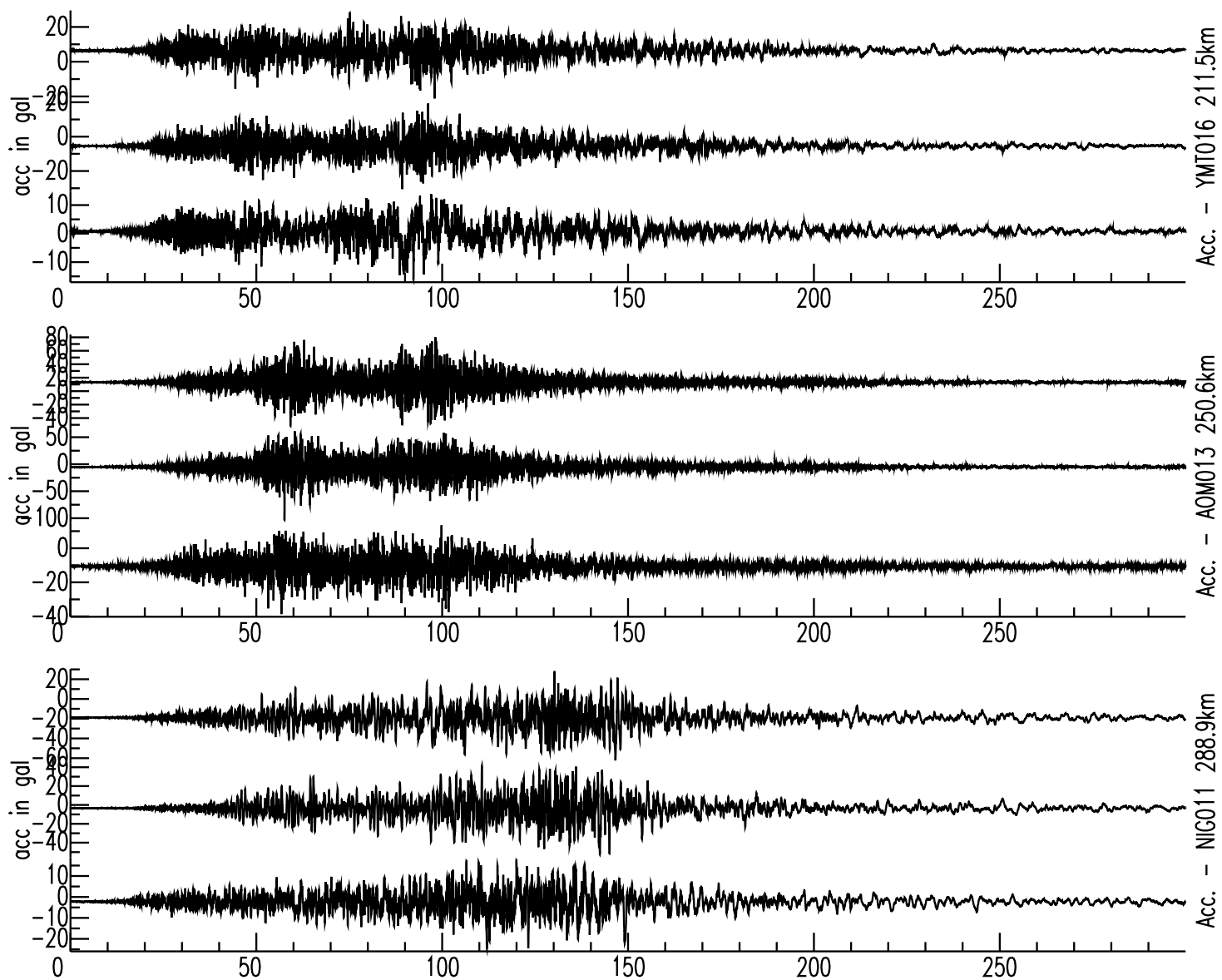
5-20 sec
bp co 0.05 0.2 p 1



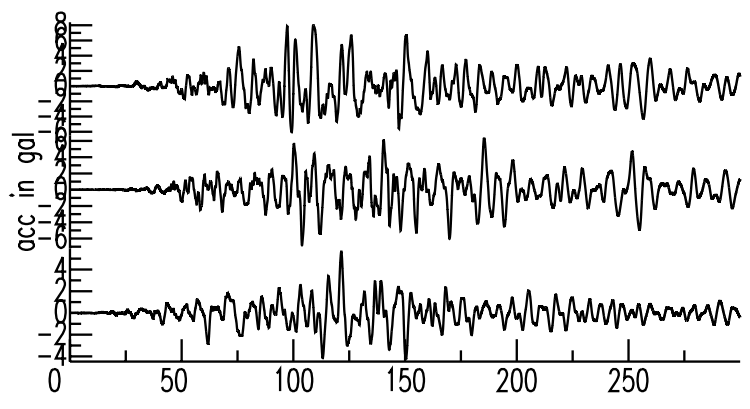
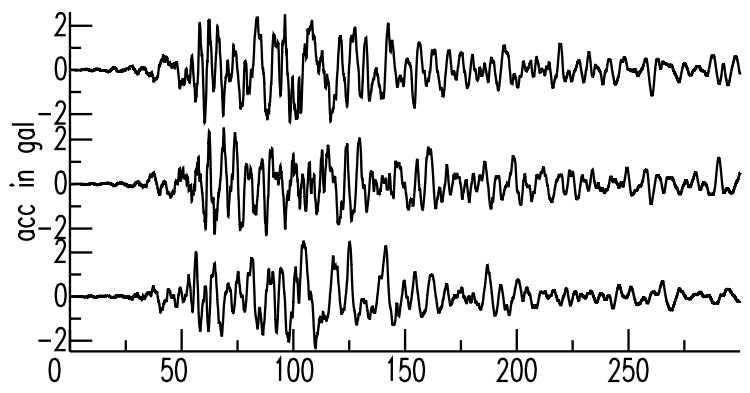
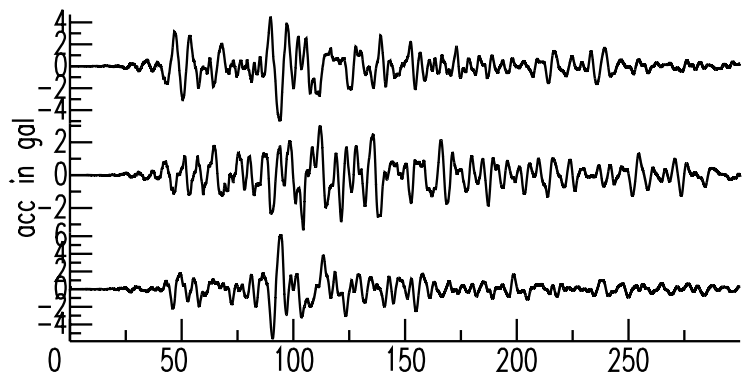
50-200 sec
bp co 0.005 0.02 p 1



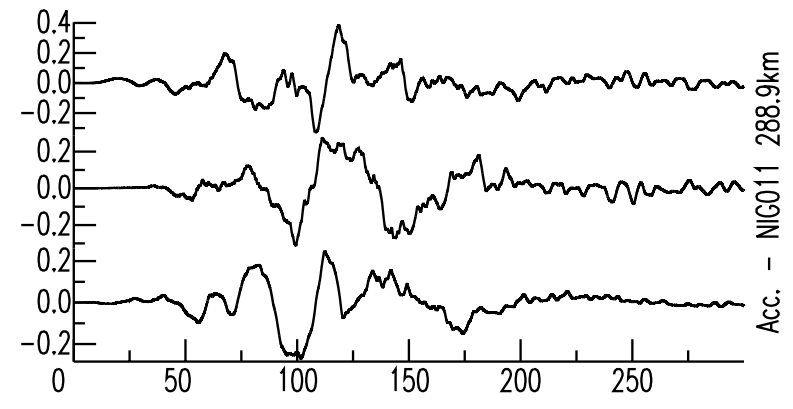
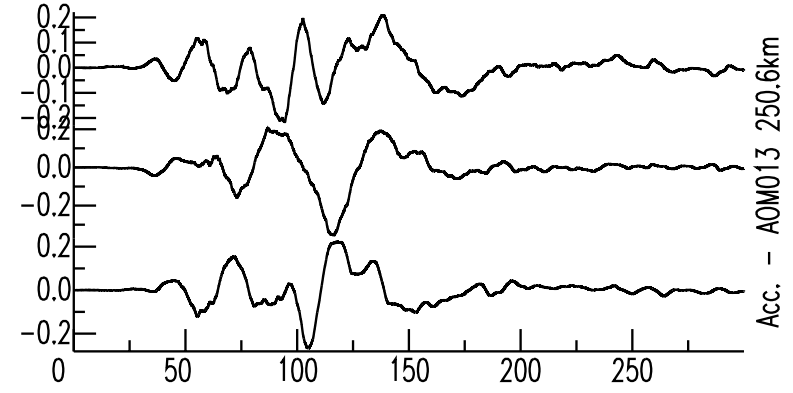
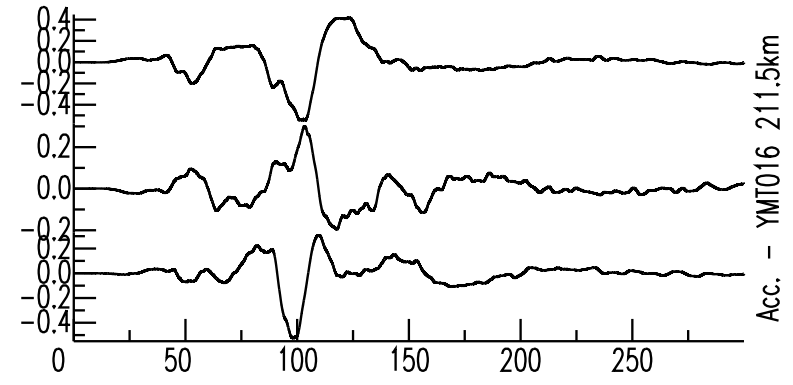
200-300 km from epicenter (40 stations total)



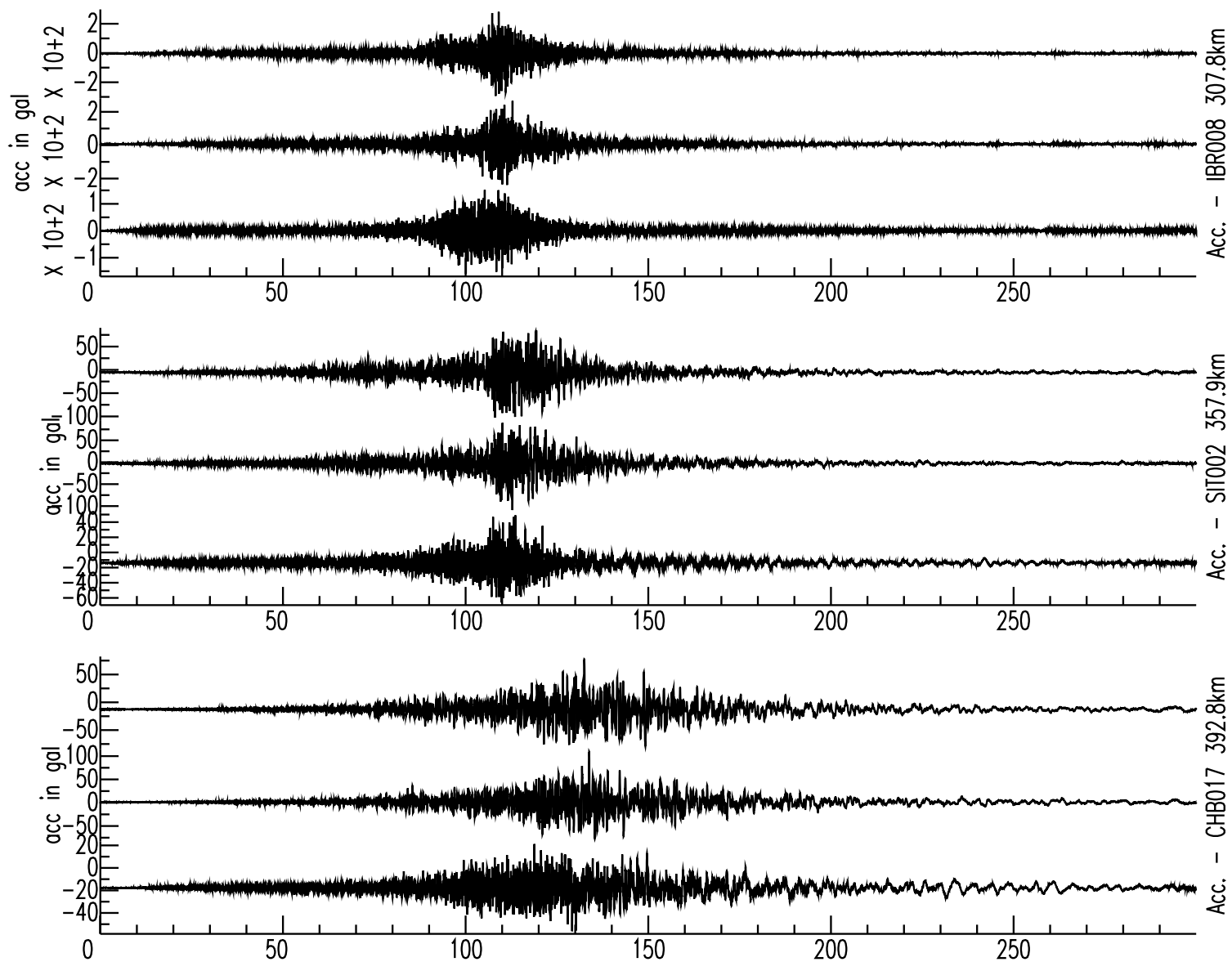
5-20 sec
bp co 0.05 0.2 p 1



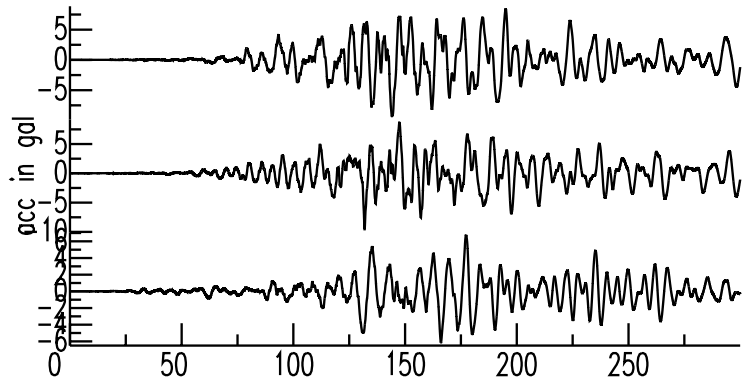
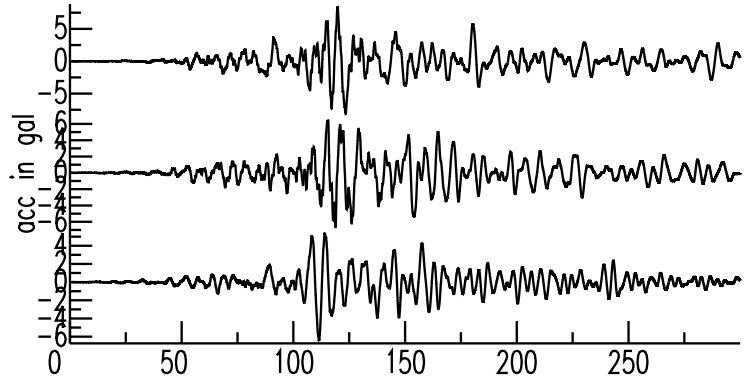
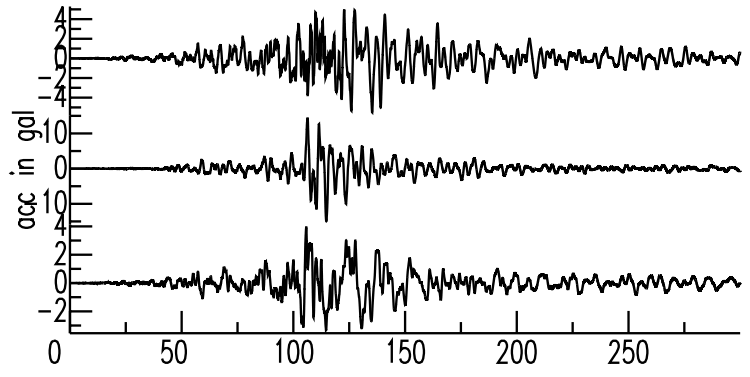
50-200 sec
bp co 0.005 0.02 p 1



300-400 km from epicenter (70 stations total)



5-20 sec
bp co 0.05 0.2 p 1



50-200 sec
bp co 0.005 0.02 p 1

