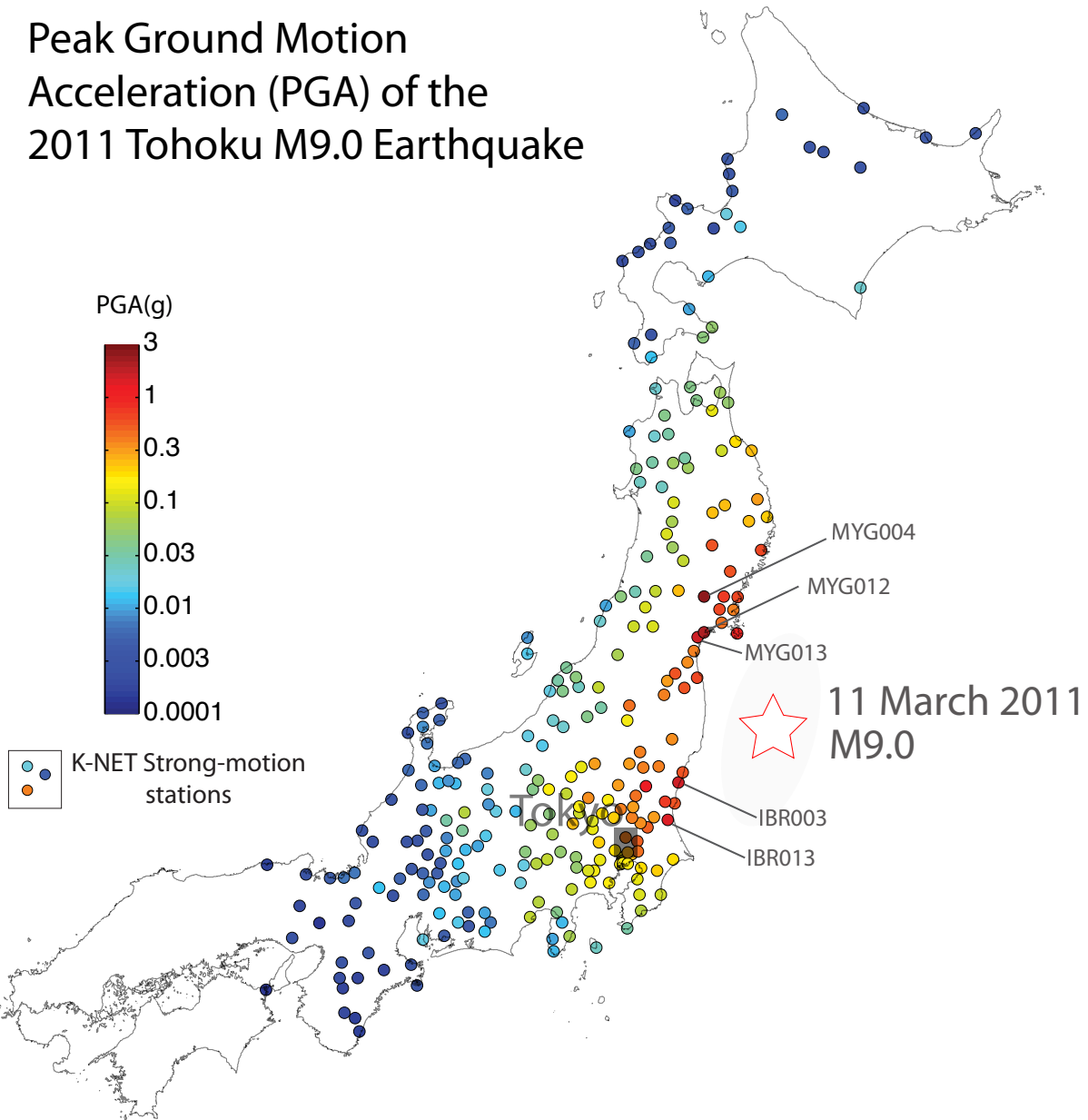


Top 5 Ground Motion Records of the March 11, 2011 M9.0 Tohoku Earthquake

Erol Kalkan

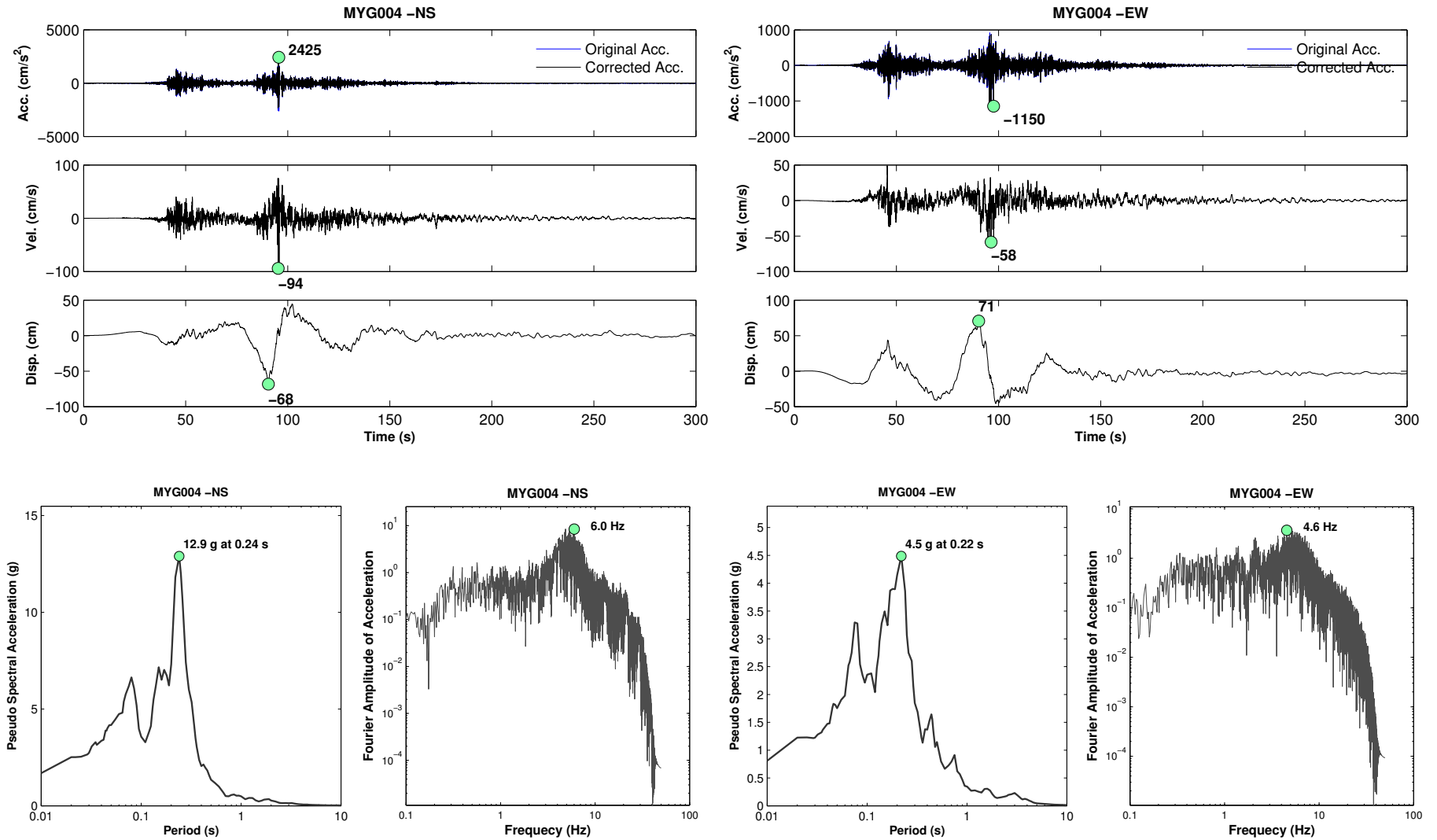
March 24, 2011

Peak Ground Motion
Acceleration (PGA) of the
2011 Tohoku M9.0 Earthquake

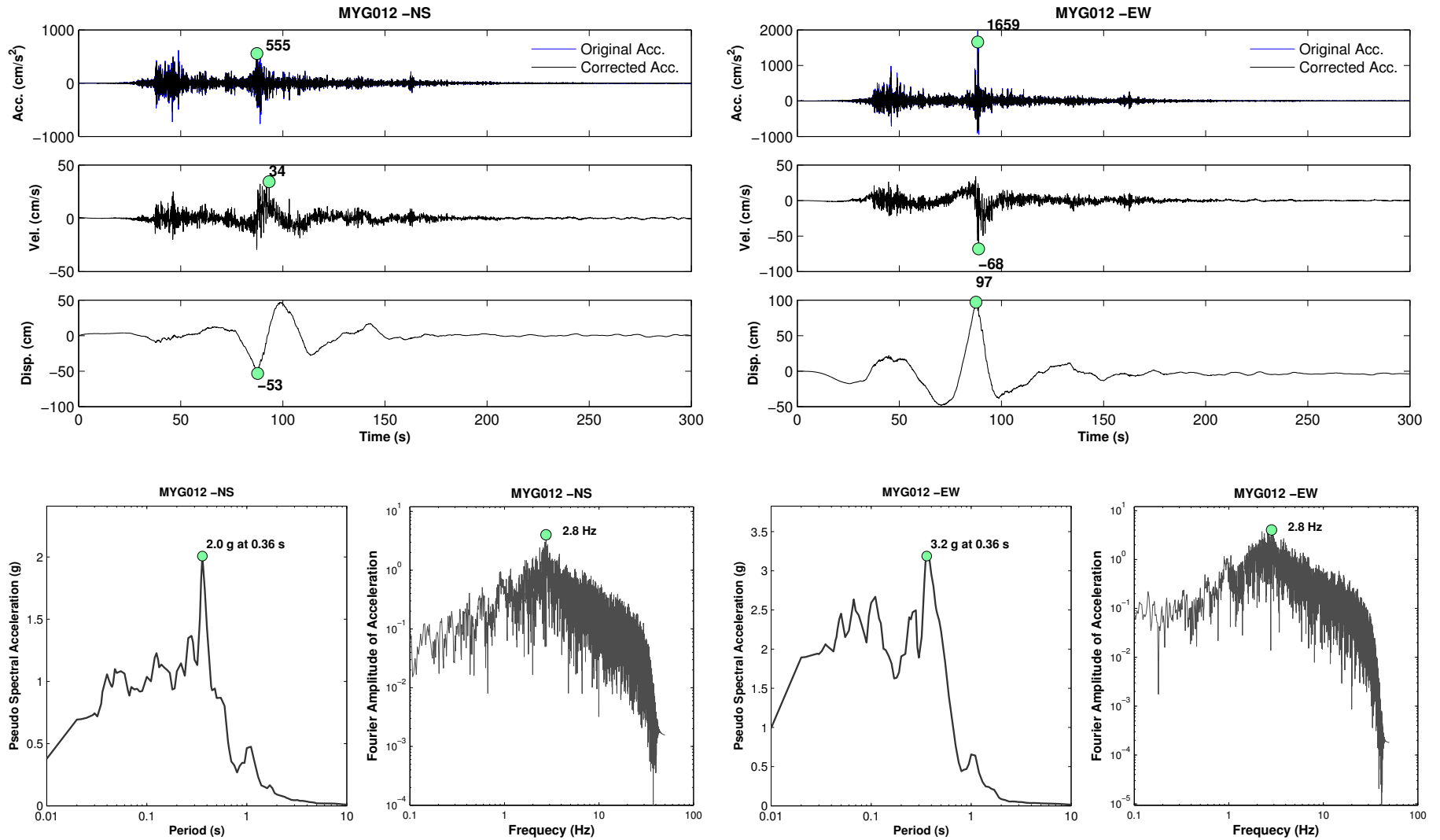


Top 5 records according to their PGA values are MYG004, MYG012, IBR003, MYG013 and IBR013. These records were obtained from stations marked above; their locations are northern and southern part of the earthquake epicenter, and about 70 km from the fault.

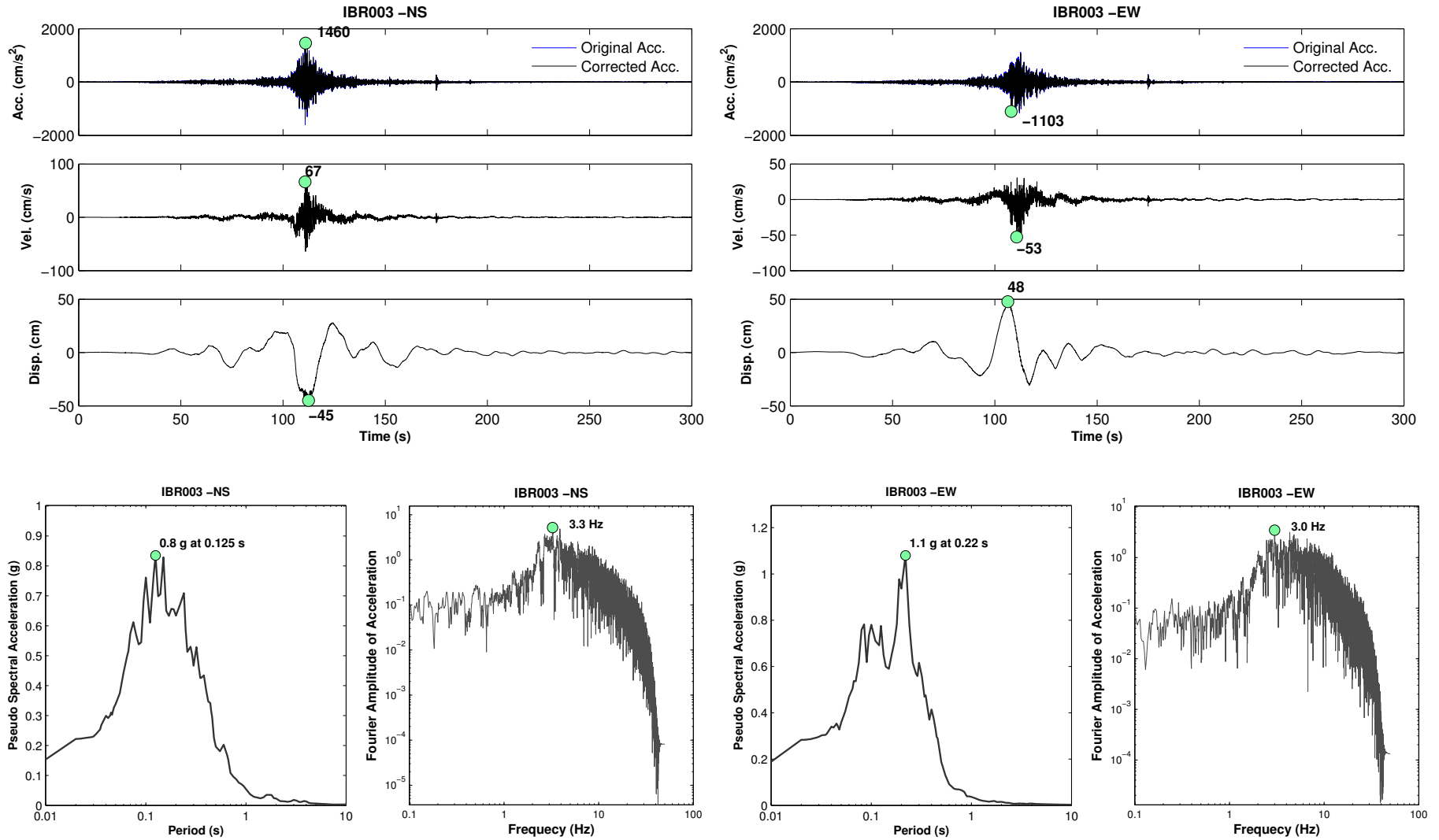
MYG004 (Fault Distance = 75.1 km): PGV = 94 cm/s and Peak SA = 12.9 g at 0.24 s



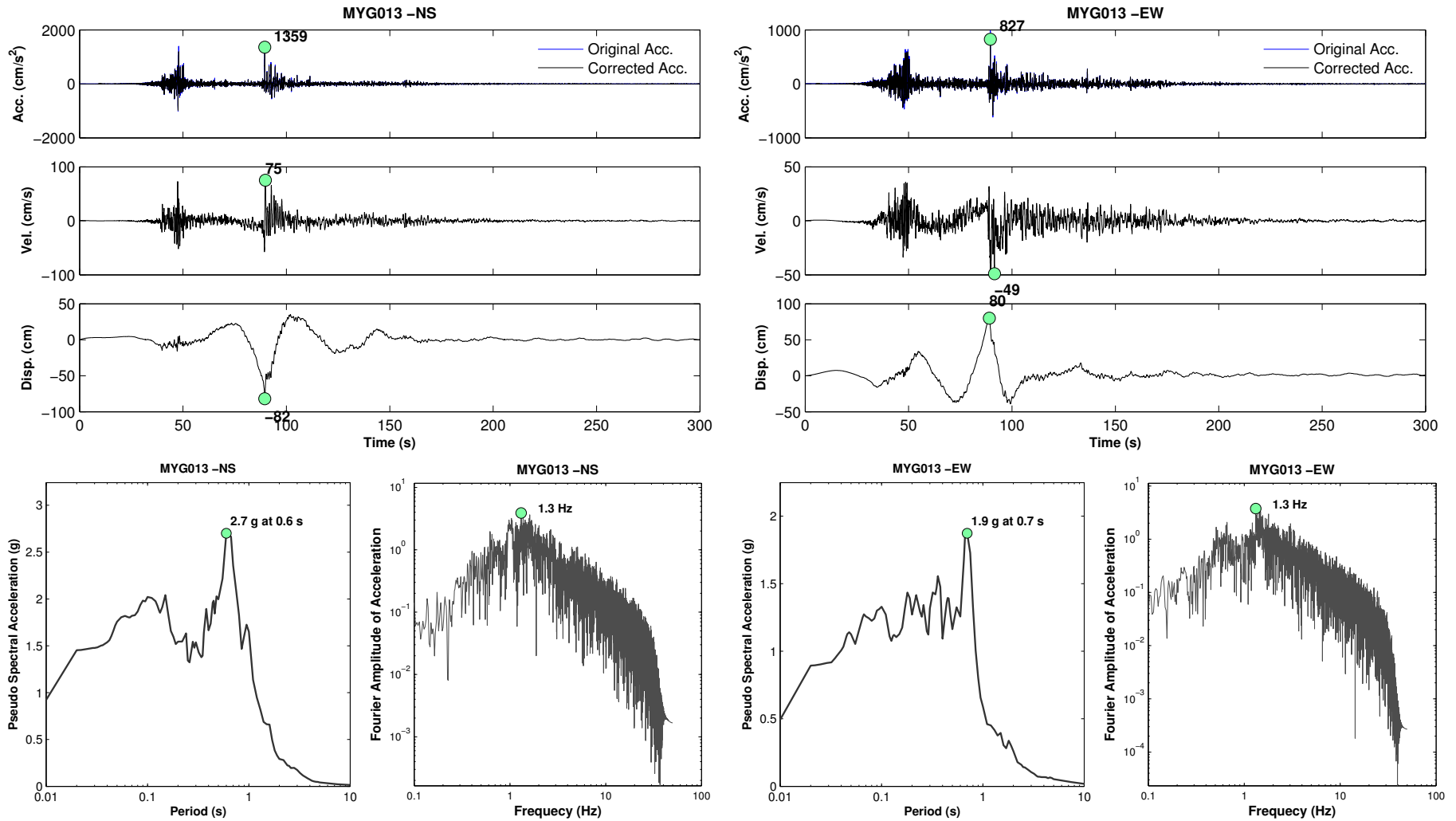
MYG012 (Fault Distance = 67.4 km): PGV = 68 cm/s and Peak SA = 3.18 g at 0.36 s



IBR003 (Fault Distance = 58.7 km): PGV = 67 cm/s and Peak SA = 1.07 g at 0.22 s



MYG013 (Fault Distance = 71.8 km): PGV = 76 cm/s and Peak SA = 2.7 g at 0.6 s



IBR013 (Fault Distance = 77.8 km): PGV = 68 cm/s and Peak SA = 1.5 g at 0.36 s

