

Figure S1: Station delays and corrections.

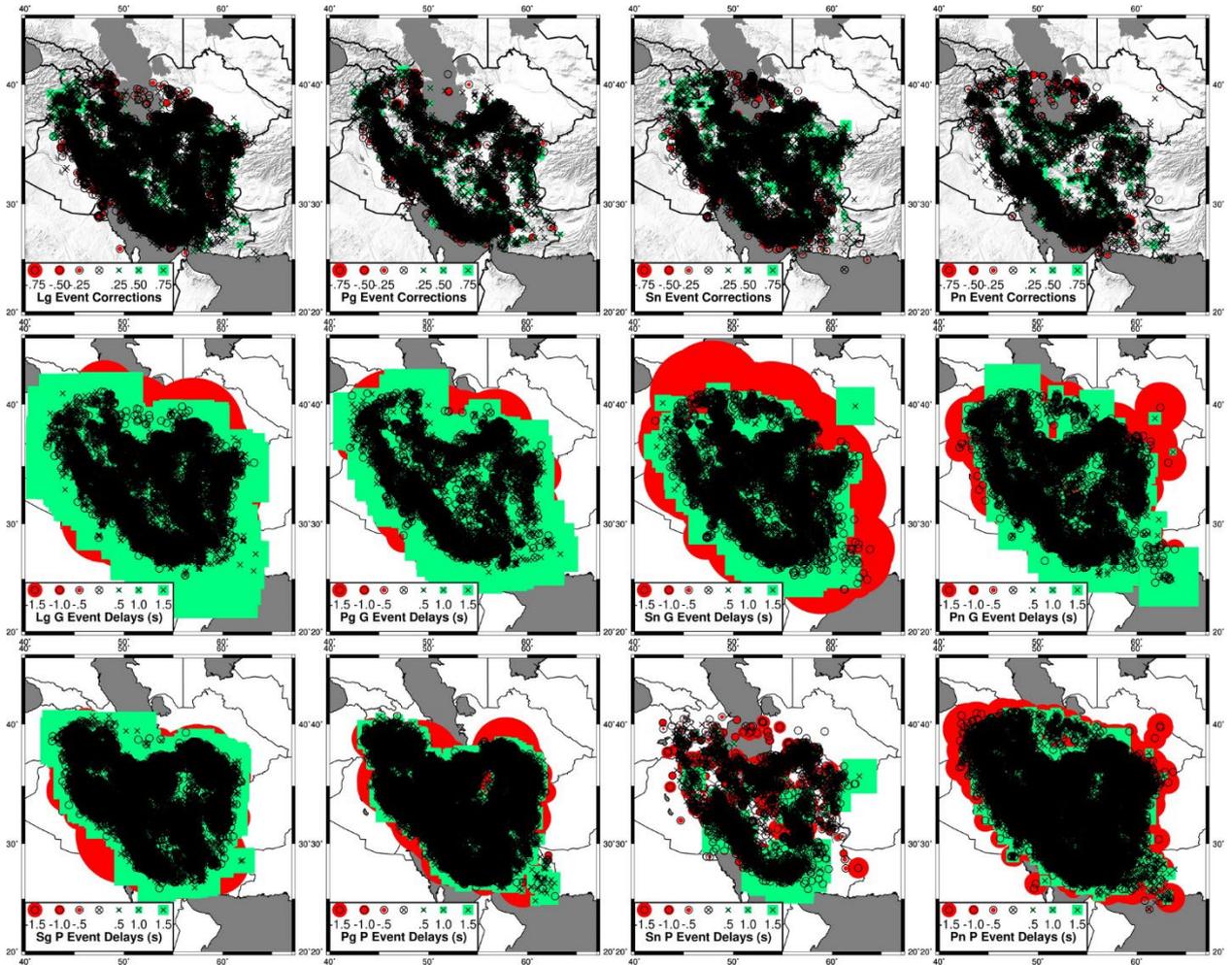


Figure S2: Event delays and corrections.

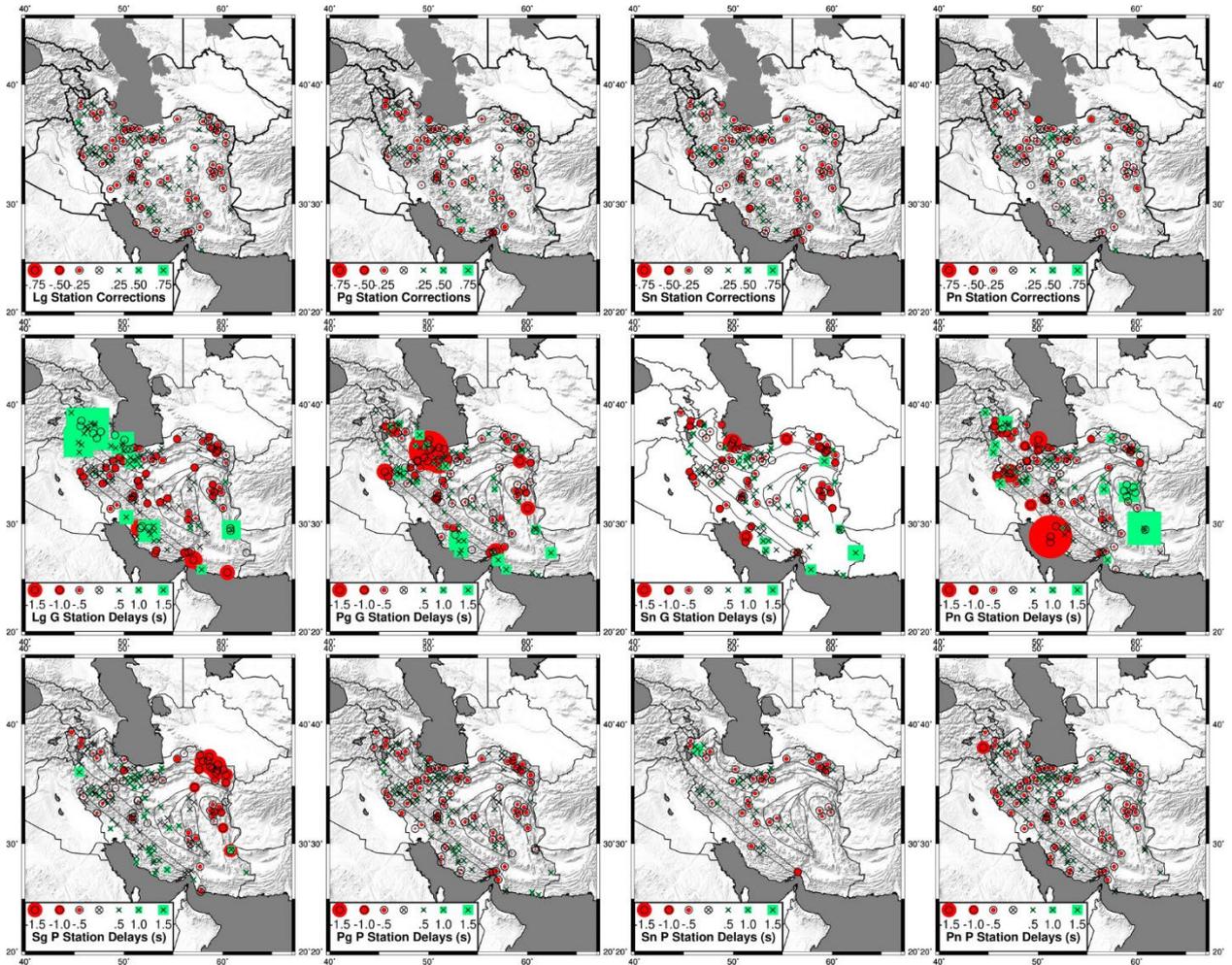


Figure S3: Checkerboard tests of station delays. The original checkerboard had attenuation and velocity squares of two-by-two degrees. The station and event delays also alternated every two degrees. Representative noise was added.

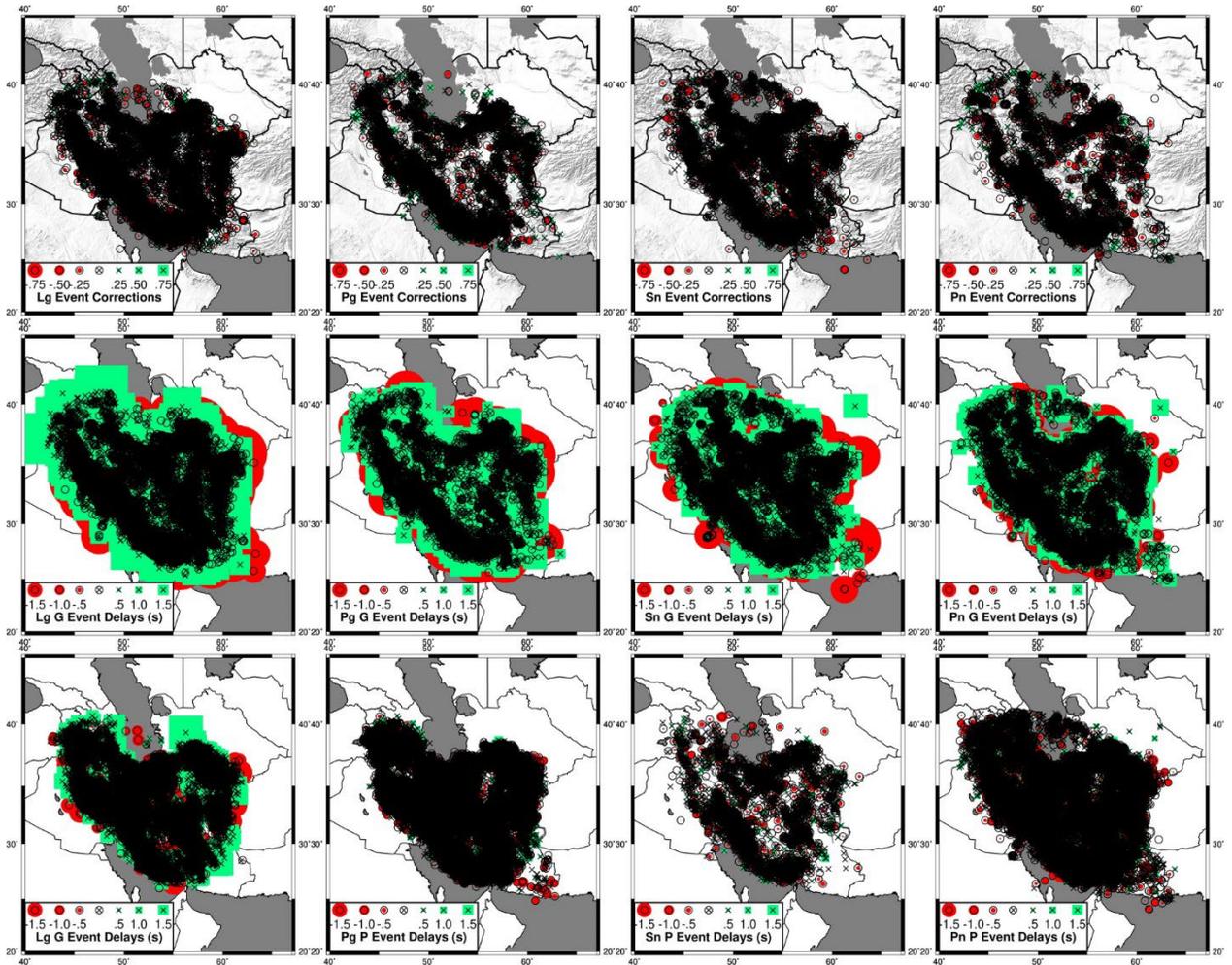


Figure S4: Checkerboard tests of event delays. The original checkerboard had attenuation and velocity squares of two-by-two degrees. The station and event delays also alternated every two degrees. Representative noise was added.