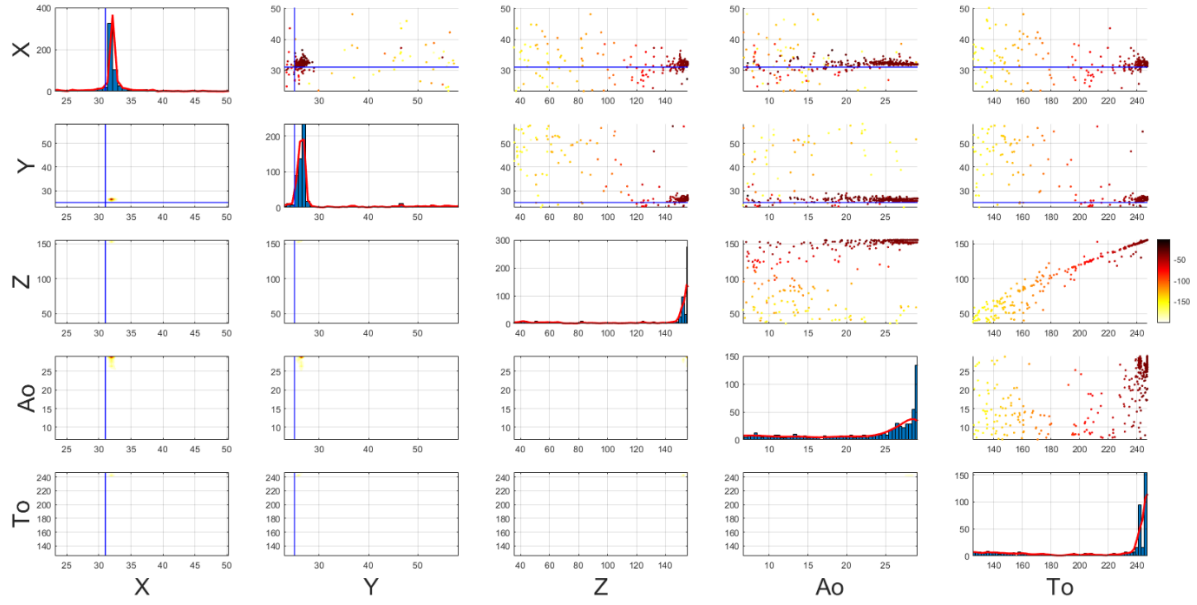
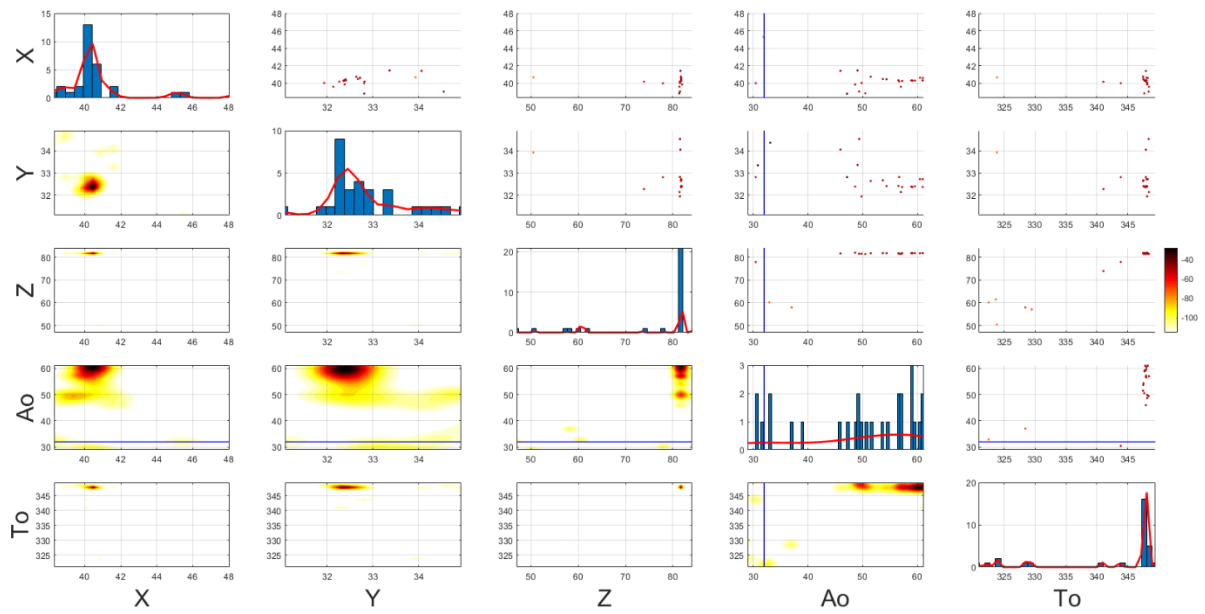


Supplementary Material



(a)



(b)

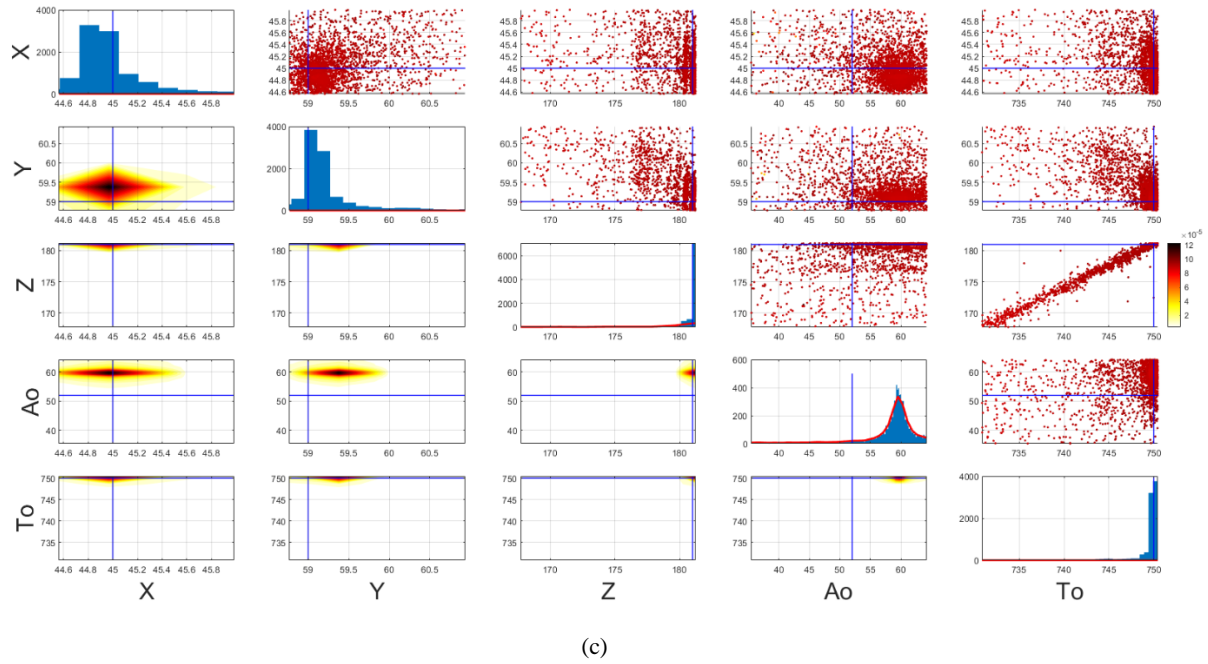


Figure 1: Mode separated posterior distribution with $N_{live} = 300$ for microseismic events with (a) event 1 and (b) event 2 (c) event 3. The blue lines shows the true parameters of the events. Event 1 and event 3 are strongly detected because of their high amplitude, while event 2 is weakly detected due to its relatively low amplitude.