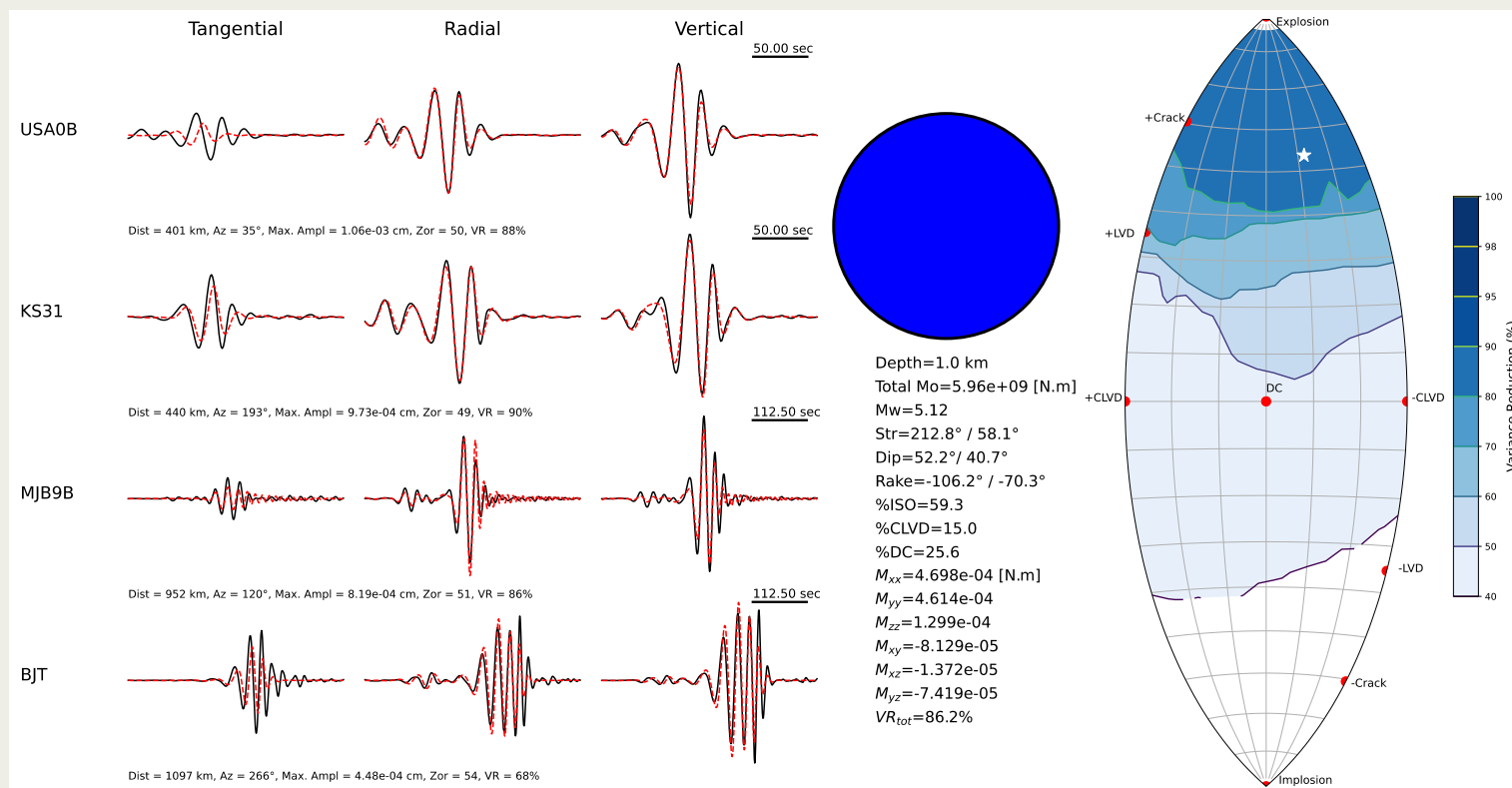


## • Main motivation:

The CTBT verification regime uses global seismic monitoring to detect underground nuclear explosions. This study examines how Moment Tensor inversion may support Expert Technical Analysis by using IMS and other data to better understand events providing key details like depth, magnitude, and source mechanism.



- For the 6th declared nuclear test by the Democratic People's Republic of Korea, the CTBTO/IMS network demonstrated its ability to reliably characterize the source mechanism.
- It also enables further characterization of other detected events, provided high-quality data is available!