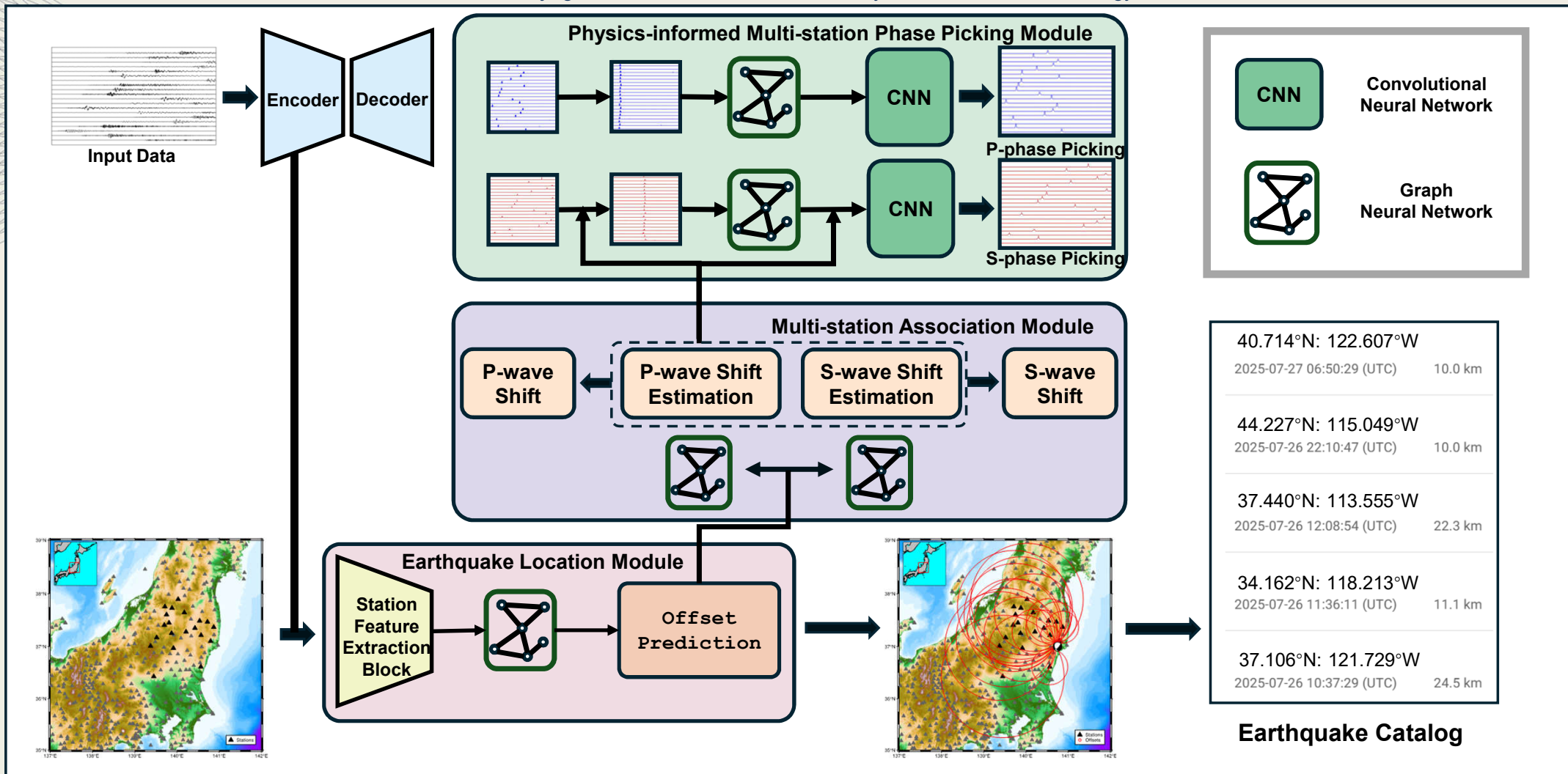


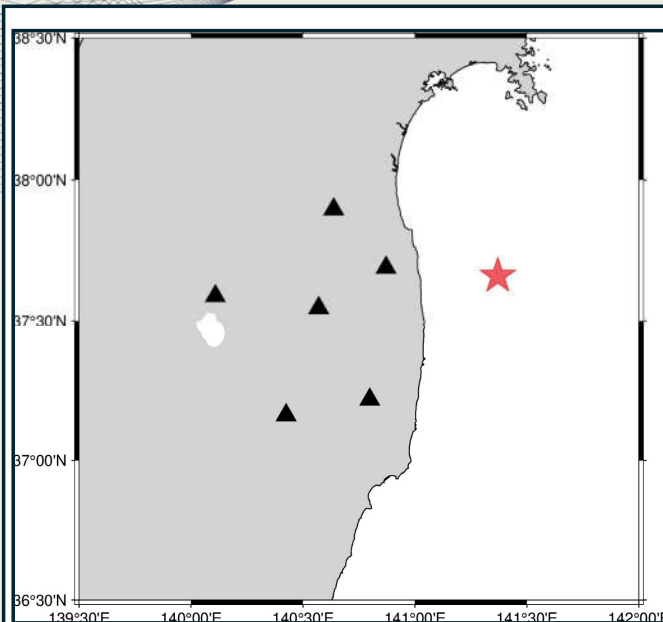
Wang Xiaoming¹, Si Xu², Huang Lihong¹, Gao Hang², Xie Dongzi², Wu Xinming²
1 CTBT Beijing National Data Centre; 2 University of Science and Technology of China

P3.5-890

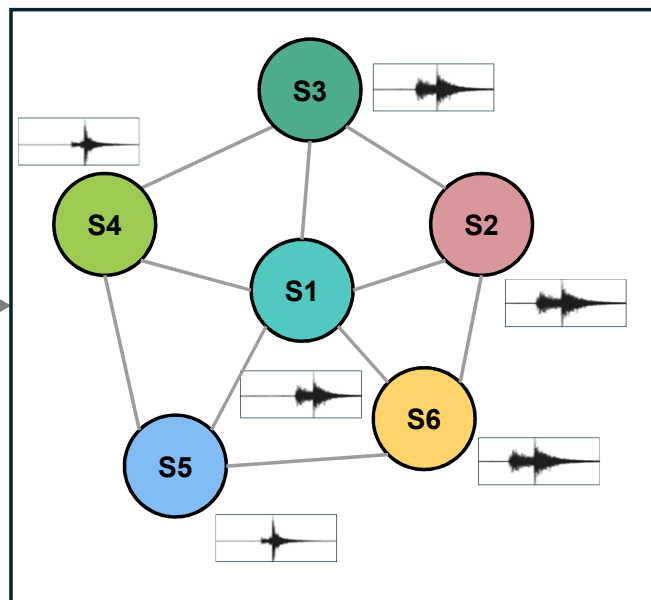


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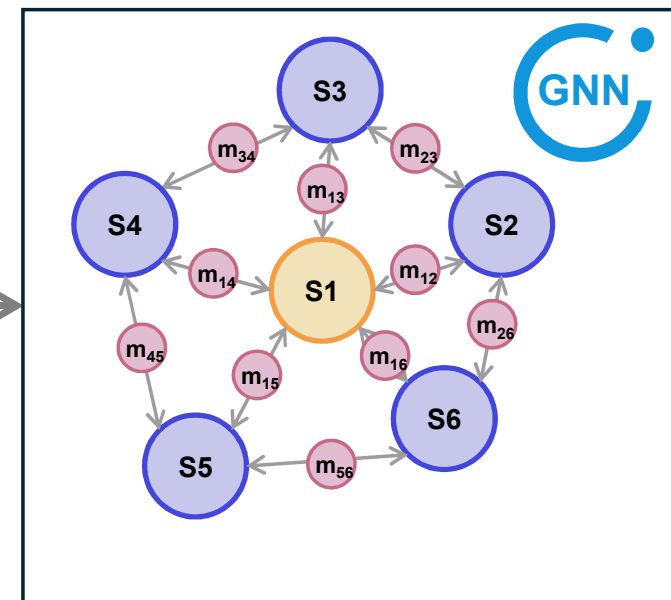
P3.5-890



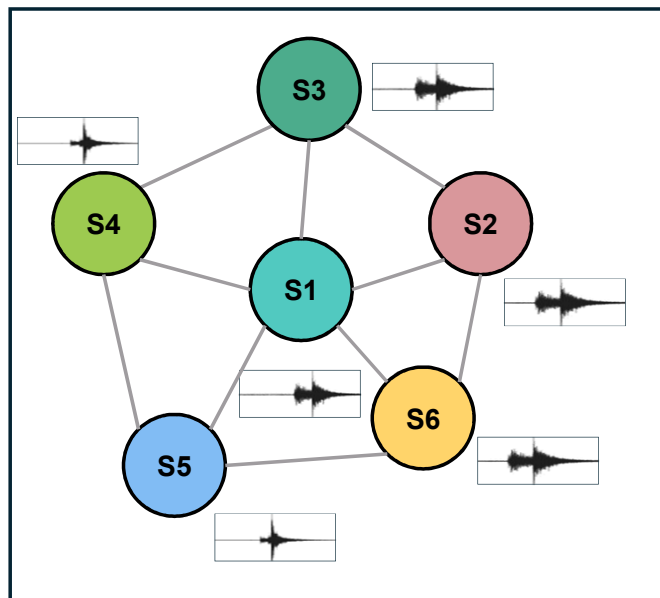
Multi-station Data



Graph Structure

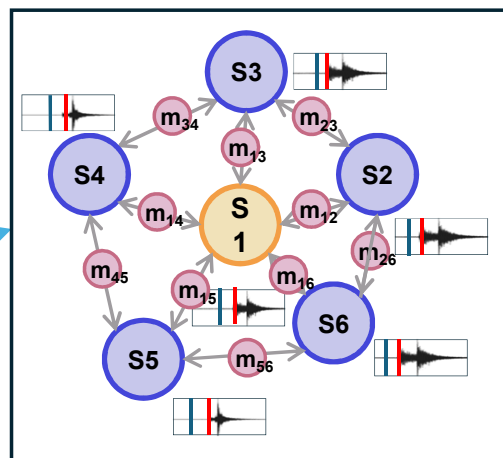


Graph Neural Networks

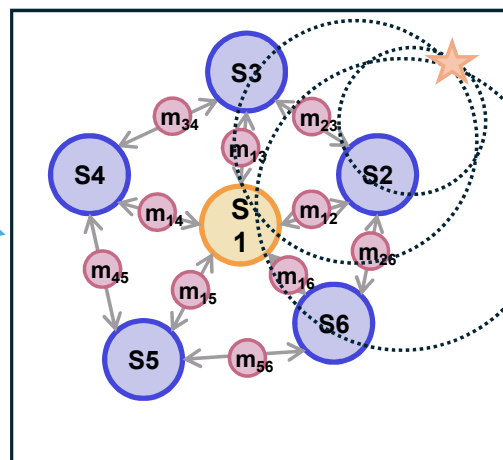


Graph structure and waveform

Predicting



Phase picking/association



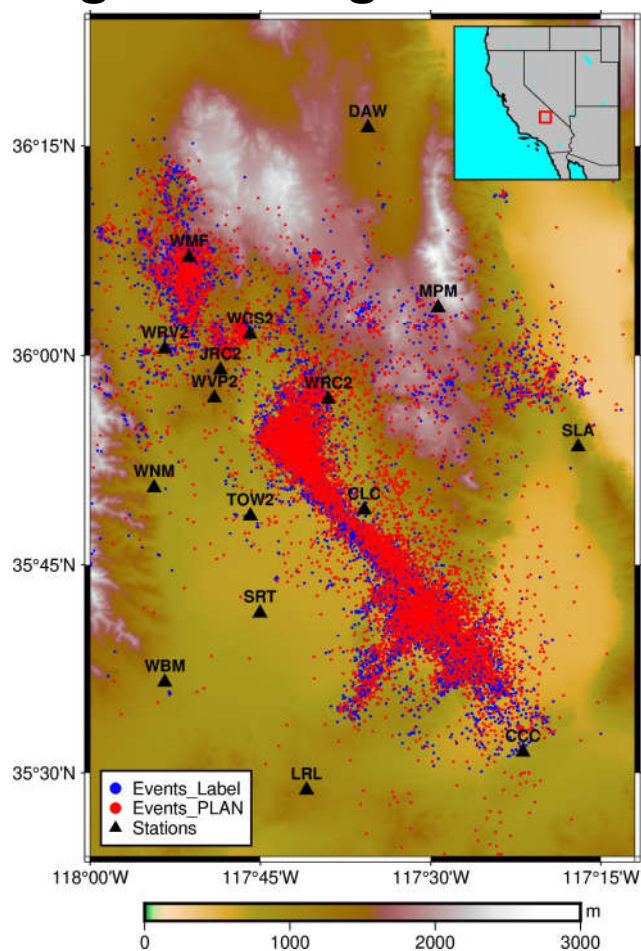
Event location

Interaction

40.714°N: 122.607°W
2025-07-27 06:50:29 (UTC) 10.0 km
44.227°N: 115.049°W
2025-07-26 22:10:47 (UTC) 10.0 km
37.440°N: 113.555°W
2025-07-26 12:08:54 (UTC) 22.3 km
34.162°N: 118.213°W
2025-07-26 11:36:11 (UTC) 11.1 km
37.106°N: 121.729°W
2025-07-26 10:37:29 (UTC) 24.5 km

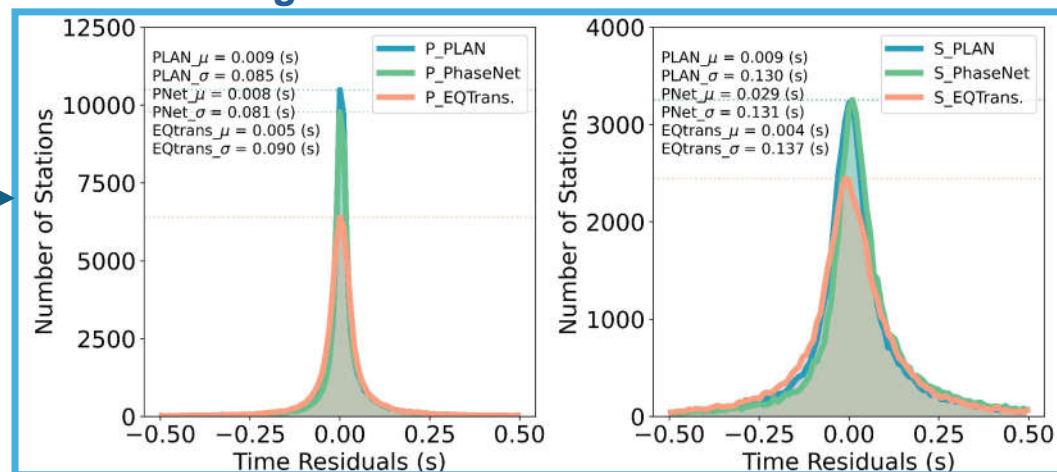
Earthquake Catalog

Ridgecrest region



Result analysis

Phase Picking



Location

