

Very low frequency earthquake excited around Ryukyu Islands

Yasushi Ishihara[1]

[1] IFREE, JAMSTEC

<http://www.jamstec.go.jp/pacific21>

Very low frequency earthquakes occur mainly around Nankai trough and SE off Kyushu. One major active region around Japan is along Ryukyu Islands. However uniqueness of estimation of its source location is poor by seismic station distribution. We try to analyze combining OHP, F-net and Taiwan broadband seismic network data for very low frequency earthquake at western-most Ryukyu Islands. We applied beam forming method for surface wave phase and relative travel time analysis. The estimation shows that hypocenters are located around Okinawa trough back arc side of Ryukyu Islands. These events may be related with volcanic activity or oscillation excitation in characteristic structure around trough region.