

## Low frequency earthquakes near swarm regions around the Izu Peninsula

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Low frequency (LF) earthquakes are sometimes observed near the swarm regions in the east - off Izu Peninsula. 12 such earthquakes can be counted in the JMA catalogue since 1989.

Focal depths of those earthquakes enter in the range between 29km and 40km. We think they correspond to so-called low frequency earthquakes that are known to occur in the lower crust along the Volcanic front. They are located not in the central part of the swarm region, but around the periphery. We found that all of the LF earthquakes in the east -off Izu Peninsula occurred during swarm activities, not in the first stages, but shortly after their peaks.