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New stage of seismic swarm around eastern Izu Peninsula

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In the Izu Peninsula, the seismic swarm had occurred every year, but a large seismic activity did not occur after 1998. According to current various researches, it is thought that an intrusive dike is causing the seismic swarm. The large seismic swarm not having occurred suggests that the large dike not intruded. But some small seismic swarms not to accompany the felt earthquake had occurred and the crustal movements had observed at the same time. Then, it thought what has occurred under the Izu peninsula. At first, relative position between the hypocenters was decided accurately, and the positions at each activity were compared. They located on a same plane but a little different place. There was a small seismic activity at the early stage of a large seismic swarm. This generated place is the almost same as the place where a recent seismic swarm is occurred. But they are also a little different. Distribution of every swarm that occurred before located on an inclined plane, however this swarm located on new perpendicular plane. Strike of this plane is west-northwest east-southeast direction, which is consistent with stress field around Izu Peninsula.

Keywords: seismic swarm, dike intrusion, Off the east of Izu Peninsula