

## Aftershock distribution of the 2003 Tokachi-oki earthquake

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The 2003 Tokachi-oki earthquake (MJMA=8.0) occurred in the southwestern Kuril Trench, off southeastern Hokkaido, Japan, at 4:50 on September 26, 2003 (Japanese Standard Time). The hypocenters of the mainshock and aftershocks were determined by Hokkaido University, Japan, by precise manual phase-pickings. The combining data of land and permanent ocean bottom seismographic stations just above the focal region improved the precision of hypocenter determination comparing with the land only data. We found the following features from the spatiotemporal hypocenter distribution for one month after the mainshock; 1) Aftershock region is approximately 160km by 160km, that is a bit smaller than the 1952 Tokachi-oki earthquake (MJMA=8.2), 2) the depth of aftershocks ranges from 20km to 70km, 3) large aftershocks occurred around the asperity of the mainshock, 4) epicenters of the mainshock and the largest aftershock were almost the same as those of 1952 Tokachi-oki earthquake.