

On the b -value of the OBS seismic observation around the Suruga Bay Senoumi

*Taiyo Sotani¹, Hisatoshi Baba⁴, Takahito Nishimiya², Nakao Nagisa¹, Toshiyasu Nagao³

1. Tokai University, 2. Meteorological Research Institute, Japan Meteorological Agency, 3. Institute of Oceanic Research and development, Tokai University, 4. Department of Marine and Earth Science, Tokai University

Suruga Bay is a steep bay with Suruga trough and is presumed to be the focal region of the Tokai earthquake. At the plate boundary from the Suruga Trough to the Nankai Trough, massive earthquakes of M 8.0 classes have repeatedly occurred in the past. In Suruga Bay, in August 2009, "Shizuoka Offshore Earthquake (M6.5)" and August 2011 "Suruga Bay Earthquake (M6.2)" as an opportunity, from November 2011, we set up the pup-up ocean bottom seismograph (OBS) at the sea area around Senoumi in central Suruga Bay and started seismic observation.

We will make the presentation about the following.

The b -value every 3 months using the hypocenters located by OBS observation from October 2012 to August 2018. The comparison of the b -value calculated every 3 months and the data of Japan Meteorological Agency (JMA) from October 2012 to August 2018. The b -values in the vicinity of the Senoumi located a lot of hypocenters.

Keywords: Tokai Earthquake, b -value