

## An earthquake activity around Off-Tokachi trench-trench junction, activated after the 2003 Tokachi-oki earthquake

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An earthquake activity around off-Tokachi trench-trench junction, where the Kuril Trench and the Japan Trench meet, which has been activated after the 2003 Tokachi-oki earthquake, is reported. Making a pasteup with cabled OBS for such earthquakes, this activity has a characteristic waveform, that is, a long duration waveform with propagation velocity of 1.5km/s followed by P and S waves, which corresponds to the propagation velocity in the water, and the characteristic waveform is considered as T-phase. Most of such earthquake activity is concentrated around outer rise region off Kuril Trench, where locates far from our present network. Such a characteristic earthquake activity also has been activated east far off Aomori Prefecture, which locates landward from the Japan Trench. An earthquake occurred on 20 November 2006, has a peculiar waveform, whose low frequency component less than 1Hz seems to be an ordinary earthquake, however, in the 1-16Hz, three distinct events with interval of about 70sec and almost same amplitudes were recorded. Frequently but not so frequent compared to other region mentioned above, earthquake activity followed with T-phase occurs at the vicinity of the landward of the trench-trench junction, southwest off KOB1, near the cable end of the JAMSTEC Kushiro cabled observatory.