Kyucho along the Kyoto Coast induced by Typhoon 0406
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The stormy coastal current, Kyucho, around the coast of Tango Peninsula in Kyoto induced by the wind of typhoon 0406, was analyzed by the current and temperature data obtained at 10 mooring stations along the coast. After the passage of typhoon 0406, the strong current with the temperature rise in the upper layer and sea level rise was generated at the northern coast of the peninsula, and the phenomenon moved with the Kyoto coast on its right hand side with the speed of about 0.4 to 0.6 m/s. This phenomenon is considered to be connected with the coastally trapped waves, i.e., hybrid waves with the characteristics of both internal Kelvin and shelf waves. The continuously strong east-northeastward wind due to the typhoon passage is considered to pile up the water at the north coast of Tango Peninsula and make the sea level difference for the strong coastal current along the shore of the peninsula. The Kyucho rapidly dissipated in the propagation process. The sea level data along the Honshu coast in the Japan Sea indicated the generation of the Kyucho at some areas along the Japan coast by the local forcing during the typhoon passage.