## Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

©2013. Japan Geoscience Union. All Rights Reserved.



ACG06-08

Room:304

Time:May 19 14:30-14:45

## Oceanic dispersion model intercomparison: The Fukushima case

Yukio Masumoto<sup>1\*</sup>, Daisuke Tsumune<sup>2</sup>, KOBAYASHI, Takuya<sup>3</sup>

<sup>1</sup>JAMSTEC, <sup>2</sup>CRIEPI, <sup>3</sup>JAEA

There are several attempts to simulate oceanic dispersion of radionuclides discharged into the ocean after the accident of Fukushima Daiichi Nuclear Power Plant on March 11, 2011. Together with monitoring observations of radionuclides in the sea water and bottom sediments, some crude ideas on distributions and magnitude of radioactivity within the ocean, particularly for Cesium 134 and 137, and on estimations of the leakage amount from the power plant were derived from the dispersion simulations. However, there are significant differences, as well as the similarlities, among the simulated results, whose causes should be investigated in more detail. A model intercomparison project under the Oceanographic Society of Japan Working group and Japan Science Councile is now trying to compare results from several downscaling dispersion models focusing on the Fukushima case. This presentation introduces the model intercomparison activities and discuss some preliminary results of the comparisons.

Keywords: Oceanic dispersion, radionuclide, Fukushima Daiichi Nuclear Power Plant, numerical model