

放射性物質の海洋分散モデル比較 Oceanic dispersion model intercomparison: The Fukushima case

升本 順夫^{1*}, 津旨 大輔², 小林 宅也³
Yukio Masumoto^{1*}, Daisuke Tsumune², KOBAYASHI, Takuya³

¹ 海洋研究開発機構, ² 電力中央研究所, ³ 日本原子力研究開発機構
¹JAMSTEC, ²CRIEPI, ³JAEA

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 similarities, 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 Council 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.

キーワード: 海洋分散, 放射性物質, 福島第一原子力発電所, 数値モデル
Keywords: Oceanic dispersion, radionuclide, Fukushima Daiichi Nuclear Power Plant, numerical model