Biogeosciences
Discussions

Interactive
Comment

Interactive comment on "Short-term dispersal of Fukushima-derived radionuclides off Japan: modeling efforts and model-data intercomparison" *by* I. I. Rypina et al.

P.p.p Povinec (Editor)

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The manuscript has been improved, however, there are still a few points to be done: - Pls. look again on the reviewers comments from the first run – there are still missing details, e.g. your estimation of the 137Csrelease rates should be described more deeply. . . - Read carefully new reviewers comments and respond accordingly.

Editor comments:

Background - As this is a modelling paper you should introduce, and critically discuss previous papers published on a similar topic – later you can explain why there are such big differences in the 137Cs marine source term - References on some previous

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papers are missing , eg. Kawamura et al., 2011, Journal of Nuclear...; Tsumune et al., 2013, Biogeosciences, the same issue...etc.

3.3 Source-term amplitude - eq. (1) – this is the crucial part of your paper – you should present results in the form of graphs (both for marine and atm. releases) - we need to see the minima which you describe in the text!

Fig. 9: - Why there is very good agreement between the theoretical and experimental data at the beginning, but later your model is predicting deep minima? (pls. change KBq/m3 to kBq/m3)

Pls. prepare a finale version of the manuscript taking into account all comments posted on your paper.

Interactive comment on Biogeosciences Discuss., 10, 1517, 2013.