

Interactive
Comment

Interactive comment on “Cesium, iodine and tritium in NW Pacific waters – a comparison of the Fukushima impact with global fallout” by P. P. Povinec et al.

P. P. Povinec et al.

pavel.povinec@fmph.uniba.sk

Received and published: 29 May 2013

(1) Table 1 may be expanded to include the amount of radionuclides released from Tokai reprocessing facility and other radionuclides such as ^{14}C , ^{134}Cs and ^{90}Sr , if possible.

Radionuclide releases from Tokai Reprocessing Facility were by several orders of magnitude lower than from Sellafield and La Hague plants, therefore we did not include them into Table 1. However, we shall mention this fact in the text with reference to the paper of Mizutani, T., Koarashi, J., and Takeishi M.: Monitoring of low-level radioactive liquid effluent in Tokai Reprocessing Plant, *J. Nucl. Sci. Technol.*, 46, 665–672, 2009.

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



We could not find suitable data sets for ^{14}C and ^{134}Cs , however, data for ^{90}Sr will be included into Table 1.

(2) Station numbers mentioned in the text and figures are difficult to follow for the wider audience, therefore, a map showing those stations mentioned in the text may be added.

Yes, a map with corresponding station numbers will be included into the revised version of the paper.

(3) A few references on ^{129}I in the Pacific may be useful to the authors. Shima et al. 2006. Distribution of anthropogenic radionuclides in the water column off Rokkasho, Japan. *Radioactivity in the Environment* 8, 83-95. Toyama et al. 2012. Variations of ^{129}I in the atmospheric fallout of Tokyo, Japan: 1963-2003. *Journal of Environmental Radioactivity* 113, 116-122. He et al. 2013. A summary of global ^{129}I in marine waters. *Nuclear Instruments and Methods in Physics Research B*. 294, 537-541.

Yes, these new references have been included into the revised version of the paper:

Shima, S., Gasa, S., Iseda, K., Nakayama, T., and Kawamura, H.: Distribution of anthropogenic radionuclides in the water column off Rokkasho, Japan. In *Radionuclides in the Environment* (Eds. P.P. Povinec, J.A. Sanchez-Cabeza), Elsevier, Amsterdam, 2006, pp. 83-95. Toyama, C., Muramatsu, Y., Uchida, Y., Igarashi, Y., Aoyama, M., and Matsuzaki, H.: Variations of ^{129}I in the atmospheric fallout of Tokyo, Japan: 1963-2003. *J. Environ. Radioact.*, 113, 116-122, 2012. He, P., Aldahan, A., Possnert, G., and Hou, X.: A summary of global ^{129}I in marine waters, *Nucl. Instrum. Methods Phys. Res. B*, 294, 537-541, 2013.

Interactive comment on *Biogeosciences Discuss.*, 10, 6377, 2013.

BGD

10, C2339–C2340, 2013

Interactive
Comment

[Full Screen / Esc](#)

[Printer-friendly Version](#)

[Interactive Discussion](#)

[Discussion Paper](#)

