

***Interactive comment on* “Direct observation of  
<sup>134</sup>Cs and <sup>137</sup>Cs in surface seawater in the western  
and central North Pacific after the Fukushima  
Dai-ichi nuclear power plant accident” by  
H. Kaeriyama et al.**

**Anonymous Referee #2**

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This paper provides a significant dataset of the radionuclides in the North Pacific. This dataset can contribute to evaluate the behavior of the radionuclides in the North Pacific Ocean. In addition, the dataset is useful to validate the results of numerical simulation in the North Pacific. I recommend this paper is acceptable for publication in Biogeosciences with some minor modifications as follows,

Minor comments;

P. 2000 Line12 and Fig. 1 ; Relationship between points of anticyclonic eddy and the

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local minima of concentration is impressive. However it is difficult to find out in Fig. 1a. The authors should provide finer and larger figure for this impressive results.

P. 2001 Line 3 ; Why “Concentration of radioactive Cs at 175.5 degree E transect were almost comparable between two years”? The authors should discuss the contribution of atmospheric deposition for explanation of this sentence.

P. 2001 Line 22 ; High temperature area (> 25 degree C) is related to the KE area. The authors should discuss the relationship to the KE area here.

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Interactive comment on Biogeosciences Discuss., 10, 1993, 2013.

**BGD**

10, C1004–C1005, 2013

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