

Interactive  
Comment

## ***Interactive comment on* “Inverse estimation of source parameters of oceanic radioactivity dispersion models associated with the Fukushima accident” by Y. Miyazawa et al.**

**Y. Miyazawa et al.**

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Thank you for the review. Please find a supplement document describing our response to the review comments.

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Interactive comment on Biogeosciences Discuss., 9, 13783, 2012.

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**Reply to Reviewer #1**

We appreciate the useful comments for further improvements of the manuscript. Below are shown your comments (in italics) and our response comments (in bold).

*<Comment-1>*

*page 13786, line 23: some text is missing after "... which for 137-Cs" (add the value of half life).*

**We will correct as follows:**

**'A constant value  $\lambda = \ln(2)/T_{half}$  ( $T_{half} = 30.1\text{years}$ ) represents the half-life time decay effect of the radionuclide for  $^{137}\text{Cs}$ .'**

*<Comment-2>*

*Equation 2: this represents the boundary condition of equation on the sea surface. Thus please add in the left side of equation 2 that the derivative o C respect to z is evaluated at the surface*

**We will correct as follows:**



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