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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Xenon-133 and caesium-137 releases into the atmosphere from the Fukushima Dai-ichi nuclear power plant: determination of the source term, atmospheric dispersion, and deposition" *by* A. Stohl et al.

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We were made aware of a mistake (L. Ruffing, personal communication) in the reported ^{137}Cs deposition amounts. The units for reporting these values should be PBq instead of TBq. The correct numbers are 6.4 PBq deposited over Japan, and 0.7 PBq deposited on land areas other than Japan. The deposition fractions (19% deposited over Japan, 2% over other land areas) are correct. This concerns the abstract (pg. 28322, lines 10 and 12), the conclusions (pg. 28359, line 15), and pg. 28357, line 5.

We are sorry for these mistakes.

At pg. 28357, line 5, the reported value should also be 6.4 PBq instead of 5 PBq. The lower value of 5 PBq results when using the global model output instead of the higher-resolution nested model output. The higher value resulting from the nested domain output is more accurate because it has a much better separation of land vs. sea grid cells. However, the difference obtained for the two different resolutions also shows that there is some uncertainty when attributing the modeled deposition to land vs. ocean areas, resulting from the limited resolution of the model.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 28319, 2011.