

Interactive comment on “Soluble trace metals in aerosols over the tropical south east Pacific offshore of Peru” by A. R. Baker et al.

Anonymous Referee #2

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This manuscript reports data from aerosol samples collected offshore of Peru during 2012. Both bulk and soluble aerosol fractions are reported for Fe, Al, Mn, Ti, Zn, V, Ni, Cu, Co, Cd, Pb and Th as well as N concentrations in the forms of nitrate and ammonium. The dataset is particularly valuable because of the location which is largely undersampled and where aerosol dry deposition flux is poorly understood.

The manuscript is well prepared, well written and well conceived. The research group has vast experience in these sorts of studies and it shows. The methods are well established and adequate precautionary measures were employed to reduce contamination risks. I would have liked to have seen a parallel comparison of the ammonium acetate leach with another solution (UHP or seawater). I would also like to see a comparison of their dry deposition flux estimates with other observations (IODP in the region?), not

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just models, if available.

I support the publication of this manuscript with very minor revision.

Interactive comment on Biogeosciences Discuss., 12, 17219, 2015.

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