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Interactive comment

## Interactive comment on "A cobalt plume in the oxygen minimum zone of the Eastern Tropical South Pacific" by N. J. Hawco et al.

**Anonymous Referee #1** 

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General comments "A cobalt plume in the oxygen minimum zone of the Eastern Tropical South Pacific" by N. Hawco et al. is a well written paper of a large dataset from a region with no data published on the same scale. These basin-scale, full depth studies provide invaluable data and insights into the biogeochemical cycling of trace elements in the oceans. My main complaint is that the authors refer forward to figures that haven't been discussed yet, and so I feel the paper needs a bit of restructuring to address this. Other than this I only have a few minor comments/suggestions for the authors' consideration, and recommend this paper for review in Biogeosciences, following minor revisions. Specific comments Line 57. I'm not sure you can definitively say that Co is the least abundant inorganic nutrient, Cd is similarly in the same range, I'd say, "one of the least" Line 64. which suggests... Line 88. 100 pM – the space between the value and unit is missing. This error occurs frequently, but not every time. I have not listed

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Co escapes from freshwater systems (Sholkovitz, E.R., and Copland, D., 1981. The

coagulation, solubility and adsorption properties of Fe, Mn, Cu, Ni, Cd, Co and humic acids in river water. Geochimica et Cosmochimica Acta., 45, 181-189.) Line 683. counterpart? Line 701. Or they can access the Co from the particulate pool? Is there any evidence for this in the literature? Line 706. Prochlorococcus produce ligands too. Might be worth mentioning this as you say that the Prochlorococcus abundance was high Line 729. Delete "of" Line 764: fluctuates References. Check your references as some of them are not displayed properly, e.g. Baxter et al (1998), Line 807, and there are some instances of extra, inconsistent punctuation.

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