

Interactive comment on “Physical and remineralization processes govern the cobalt distribution in the deep western Atlantic ocean” by G. Dulaquais et al.

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Received and published: 7 November 2013

In the present discussion paper, few typesetting corrections should be noted.

Text comments

- page 15971, line 15; "abve" should be read "above"

- page 15973, lines 18 to 21; The following sentence:

"As suggested here above, mixing processes with the NADW can then contribute to the decrease in the DCo concentrations along the westward transportation of the ACW, whereas DCo appears to be insensitive to scavenging during transportation of this

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water-mass could not be discerned from water mass mixing (Noble et al., 2012)." should be read

"As suggested here above, mixing processes with the NADW can then contribute to the decrease in the DCo concentrations along the westward transportation of the ACW, whereas DCo appears to be insensitive to scavenging during transportation of this water-mass and it could not be discerned from water mass mixing (Noble et al., 2012)."

- Page 15981, lines 8 to 10 the following sentence:

"This finding contrasts with previous interpretations that DCo would have to be scavenged along the thermohaline circulation to explain the deep inter-basins fractionation (Bruland and Lohan, 2003"

should be read

"This finding contrasts with previous interpretations which suggest that DCo is scavenged along the thermohaline circulation explaining the deep inter-basins fractionation (Bruland and Lohan, 2003"

Reference comments

- page 15955, line 6; The article referenced as "(Dulaquais et al., 2013)" ; should be read (Dulaquais et al., in prep.)

- page 15975, line 9; The article referenced as "(Dulaquais et al., 2013)" ; should be read (Dulaquais et al., in prep.)

- page 15979, line 27; The article referenced as "(Dulaquais et al., 2013)" ; should be read (Dulaquais et al., in prep.)

- page 15980, line 23; The article referenced as "(Dulaquais et al., 2013)" ; should be read (Dulaquais et al., in prep.)

- In the reference list the following reference should be added

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Dulaquais G., Boye M., Middag R., Owens S., Puigcorbé V., Masqué P., de Baar, H. and X. Carton. In preparation. How to constrain the biogeochemical cycle of cobalt in the West Atlantic Ocean? In prep. for submission to Global Biogeochemical Cycles.

Discussion comment:

- Page 15971, line 22; 7.3 nmol m⁻² must be read 14.6 nmol m⁻²

Interactive comment on Biogeosciences Discuss., 10, 15951, 2013.

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