**Ocean Science
Discussions**

Interactive comment on "An algorithm for estimating Absolute Salinity in the global ocean" *by* T. J. McDougall et al.

T. J. McDougall et al.

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Reply to Anonymous Referee #2

1. The abstract has been changed to remove the equation.

2. The meaning of Standard Composition is defined better now, and its detailed description can be found in the TEOS-10 Manual (IOC et al. (2010)).

3. Fixed

4. Unlike the density data from other ocean basins, the present paper is the only place that this data will be published.

5. Fixed

6. The Baltic Sea is the only marginal sea that is treated specially to date in the spatial algorithm to evaluate Absolute Salinity. As more inputs for major rivers are included, regional and coastal areas could then be treated in a special manner as well. A recent paper on this issue of defining appropriate salinity measures for Limnological applications is

Pawlowicz R. and R. Feistel, 2012: Limnological applications of the Thermodynamic Equation of Seawater 2010 (TEOS-10), Limnol. Oceanogr.: Methods, 10, 2012, 853-867.

Interactive comment on Ocean Sci. Discuss., 6, 215, 2009.