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Interactive comment on “A model for predicting changes in the electrical conductivity, practical salinity, and absolute salinity of seawater due to variations in relative chemical composition” by R. Pawlowicz

Anonymous Referee #3

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The paper is written in an easily comprehensible way. The recommendation is to publish the manuscript as it is but taken into account the details mentioned in the other RC comments.

The paper presents an comprehensive analysis of the relationship between absolute salinity as required quantity and practical salinity as the measured parameter. A mathematical model proven to be suitable to predict chemical effects on electrolyte solutions is applied on salinity corrections. Although it is known empirically that observed deviations to absolute salinity are caused by nutrients and changes in the carbonate

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system the model calculations provide more theoretical insight in the biogeochemical processes. This takes on special importance for future strategy to investigate biogeochemical processes in the oceans.

Interactive comment on Ocean Sci. Discuss., 6, 2861, 2009.

OSD

6, C999–C1000, 2010

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