

***Interactive comment on “Absolute Salinity,
Density Salinity and the Reference-Composition
Salinity Scale: present and future use in the
seawater standard TEOS-10” by D. G. Wright et al.***

Anonymous Referee #2

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The paper aims to clarify some aspects related to the use of the new international thermodynamic equation of seawater (TEOS-10) and in particular to the relationship between seawater thermodynamic properties and salinity. The authors discuss in great details the shortcomings and practical issues related to salinity for both in situ data analyses and numerical modelling efforts. The paper is well written and, not surprisingly, quite long, as it deals with care of the implied issues related to the seawater chemistry as well as with the implications for the ocean dynamics and biogeochemistry. It also allows to have an exact perception about the important open questions that remain to be addressed. I have found it very instructive and it will be a useful

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reading for students in oceanography. Given the importance for the oceanographic community, I do strongly support its publication in Ocean Sciences.

Interactive comment on Ocean Sci. Discuss., 7, 1559, 2010.

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