

Interactive comment on “Numerical implementation and oceanographic application of the thermodynamic potentials of water, vapour, ice, seawater and air – Part 1: Background and equations” by R. Feistel et al.

Anonymous Referee #1

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General Comments: The discussion paper has a very high quality. It describes comprehensively the calculation of the thermodynamic properties of liquid water, water vapour, ice, seawater and humid air. The summarization of the most accurate algorithms available at this time is a great merit of the authors.

Specific Comments: In particular, the descriptions of the different equilibriums of liquid water, water vapour, ice and air are complete and precise. The supplement of the paper contains all important formulas of the calculated properties and makes the user easy to apply the functions of the property library.

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Technical Corrections: I suggest change the paper title into "...of liquid water, water vapour, ice, seawater and humid (or moist) air – Part 1: ..." to make the contents clearer.

Interactive comment on Ocean Sci. Discuss., 7, 521, 2010.