Ocean Science Discussions

Ocean Sci. Discuss., author comment AC7
https://doi.org/10.5194/os-2022-2-AC7, 2022

Reply on RC3

Carlos Gil Martins and Jaimie Cross

Author comment on "Technical note: TEOS-10 Excel – implementation of the Thermodynamic Equation Of Seawater – 2010 in Excel" by Carlos Gil Martins and Jaimie Cross, Ocean Sci. Discuss., https://doi.org/10.5194/os-2022-2-AC7, 2022

Dear Trevor,

We are extremely pleased with the outcome of the manuscript submission and with the whole review process that was enlightening and pushed us to improve the software. We believe that both the software and the paper are now much better.

Regarding your comment on ‘potential density’ we agree, as that was the term we have originally used in the manuscript, and actually, we have kept it in the EXCEL spreadsheet’s column heading. The change to ‘conservative density’ arose from the discussion, to reflect that in TEOS-10 EXCEL it is calculated using the Conservative Temperature and not the ‘in situ temperature’, but as you well say, that shouldn’t impact the fact that ‘potential’ is related to the density (in contrast with ‘in situ density’) and not to the temperature parameter used in the function.

We will use ‘potential density’ throughout the manuscript.

Thank you again for the positive review.