

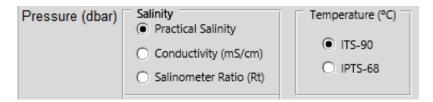
Ocean Sci. Discuss., author comment AC6 https://doi.org/10.5194/os-2022-2-AC6, 2022 © Author(s) 2022. This work is distributed under the Creative Commons Attribution 4.0 License.

## Comment on os-2022-2

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-AC6, 2022

We have updated the software to **version 2.1** which now includes calculation of Practical Salinity from the conductivity ratio measured by a laboratory salinometer (Rt). The salinity input radio buttons were modified accordingly (figure below).



The conductivity ratio function added in v.2.0  $\{SP\_from\_R(R, t, p)\}$  calculates Practical Salinity from the conductivity ratio (R), of a sample at temperature (t), and pressure (p) relative to SSW at t=15 °C and p=0, which is not the conductivity ratio measured by a laboratory salinometer, where both the sample and the reference SSW are at the same temperature. The function for computing Practical Salinity from the salinometer ratio (Rt) has been now added  $\{SP\_salinometer(Rt, t)\}$ , where 't' is the temperature of the salinometer thermostable bath.

The attached file includes the necessary manuscript ammendements to reflect the above updates, including updates of table 1 and figs. 1 and 2.

Please also note the supplement to this comment: <a href="https://os.copernicus.org/preprints/os-2022-2/os-2022-2-AC6-supplement.pdf">https://os.copernicus.org/preprints/os-2022-2/os-2022-2-AC6-supplement.pdf</a>