

***Interactive comment on “The density of seawater
as a function of salinity (5 to 70 g kg⁻¹) and
temperature
(0 to 90 °C)” by F. J. Millero and F. Huang***

F. J. Millero and F. Huang

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The corrections were made in the abstract as suggested and other typos in the manuscript were corrected.

Corrections Abstract

Sentence two corrected to read
Other measurements

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Line 7 corrected to read
0.003 kg m³

Line 9 corrected to read
All the densities were made relative to pure water

Line 11 equation corrected
 $BS_A^{1.5}$

Lines 15 and 16 corrected to read
standard errors of 0.0063 kg m⁻³ and all the results (N = 522) from 0 to 90⁰C gave
standard errors of 0.0063 kg m⁻³.

Corrections Results and Discussion

In paragraph one, correct last sentence as follows:

It should be pointed out that our measurements made at salinities above 40 are higher
by as much as 0.064 kg m⁻³ with the measurements of Poisson and Badhouni (1993)
at 15⁰, 25⁰ and 30⁰ C.

Equation (5) corrected as follows

$BS_A^{1.5}$

Lines 21 and 22 corrected to read

All of the measurements from 0 to 90⁰C (N = 522) have also been fitted to equation (5).

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Corrections Table 1. Summary of the 1 atm density measurements made on seawater.

Next to last line should read:

This Study (0 to 90°C)

522

0.0063

0 to 90

4 to 70

Corrected Table 2. The coefficients for the densities measured in this study fitted to equation (2).

First Column, last coefficient should read: S_A^2

Last Column 0 to 90°C should read:

8.174451E-01

-3.638577E-03

6.480811E-05

-7.312404E-07

5.330431E-09

-1.657628E-11

-5.481436E-03

3.486075E-05

-3.049727E-07

5.346196E-04

522

0.0063

Corrected Table 3. The coefficients for the densities measured in this study and

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literature data (Millero et al., 1976; Poisson and Brunet, 1980) fitted to equation (2).

First Column, last coefficient should read: S_A^2

Corrected Caption Figure 3. The differences between the measured ($N = 522$) and calculated densities ($p-p^0$, kg m^{-3}) from 0 to 90°C and S_A from 5 to 70 g kg^{-1} as a function of temperature and salinity ($\sigma = 0.0063 \text{ kg m}^{-3}$).

Interactive comment on Ocean Sci. Discuss., 6, 153, 2009.

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