

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2583
CALIBRATION DATE: 03-Jul-12

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -1.04391762e+001
h = 1.52713100e+000
i = 3.67251145e-004
j = 6.18779489e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.89323686e-004
b = 1.52727667e+000
c = -1.04390606e+001
d = -8.26931821e-005
m = 3.5
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.61335	0.00000	0.00000
-0.9986	34.6588	2.79319	5.00705	2.79320	0.00001
1.0000	34.6593	2.96382	5.11699	2.96381	-0.00001
15.0000	34.6606	4.25453	5.88211	4.25452	-0.00001
18.5000	34.6605	4.59993	6.07043	4.59992	-0.00000
29.0000	34.6584	5.67936	6.62430	5.67939	0.00003
32.5001	34.6513	6.05047	6.80420	6.05045	-0.00002

Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

