

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2100
CALIBRATION DATE: 13-Sep-11

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

GHIJ COEFFICIENTS

g = -9.22444381e+000
h = 1.22623932e+000
i = -2.58599011e-003
j = 2.40251096e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.58936562e-008
b = 1.21830087e+000
c = -9.20401785e+000
d = -7.51549499e-005
m = 7.2
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	2.74866	0.00000	0.00000
-1.0000	34.8760	2.80894	5.53200	2.80894	0.00001
1.0000	34.8769	2.98065	5.65783	2.98065	0.00000
15.0000	34.8776	4.27834	6.53032	4.27833	-0.00001
18.5000	34.8773	4.62559	6.74448	4.62556	-0.00002
29.0000	34.8726	5.71050	7.37312	5.71056	0.00006
32.5000	34.8614	6.08296	7.57665	6.08292	-0.00004

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

