

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1538
CALIBRATION DATE: 04-Sep-08

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

GHIJ COEFFICIENTS

g = -4.21180629e+000
h = 4.71313300e-001
i = -1.71824719e-004
j = 2.92242313e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.74560007e-006
b = 4.70798450e-001
c = -4.21035975e+000
d = -8.72761513e-005
m = 4.4
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	2.99017	0.00000	0.00000
-1.0001	34.8886	2.80985	8.27464	2.80986	0.00001
0.9999	34.8892	2.98159	8.49110	2.98159	0.00000
14.9999	34.8902	4.27971	9.97458	4.27969	-0.00002
18.4999	34.8904	4.62713	10.33499	4.62711	-0.00002
29.0000	34.8868	5.71256	11.38643	5.71265	0.00009
32.4999	34.8795	6.08575	11.72551	6.08569	-0.00006

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

