

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1568
CALIBRATION DATE: 23-Jan-08

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

GHIJ COEFFICIENTS

g = -4.00371680e+000
h = 5.18779630e-001
i = -1.25254990e-004
j = 3.04525307e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.36115909e-005
b = 5.18387352e-001
c = -4.00245171e+000
d = -8.15906999e-005
m = 4.2
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	2.77835	0.00000	0.00000
-1.0000	34.9126	2.81161	7.86172	2.81159	-0.00002
1.0000	34.9124	2.98339	8.06871	2.98342	0.00002
15.0000	34.9129	4.28221	9.48660	4.28218	-0.00003
18.5000	34.9117	4.62966	9.83089	4.62971	0.00005
29.0000	34.9071	5.71551	10.83499	5.71545	-0.00007
32.5001	34.8949	6.08815	11.15847	6.08819	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

