

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2356
CALIBRATION DATE: 23-Jan-08

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

GHIJ COEFFICIENTS

g = -1.00879682e+001
h = 1.47219485e+000
i = -1.59717010e-004
j = 9.99708643e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.37480332e-005
b = 1.47177408e+000
c = -1.00871741e+001
d = -8.41180387e-005
m = 4.0
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	2.61746	0.00000	0.00000
-1.0000	34.9126	2.81161	5.09106	2.81158	-0.00003
1.0000	34.9124	2.98339	5.20413	2.98342	0.00002
15.0000	34.9129	4.28221	5.98972	4.28219	-0.00001
18.5000	34.9117	4.62966	6.18290	4.62971	0.00006
29.0000	34.9071	5.71551	6.75061	5.71541	-0.00010
32.5001	34.8949	6.08815	6.93473	6.08822	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

