

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553
CALIBRATION DATE: 23-Jan-08

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

GHIJ COEFFICIENTS

g = -4.17974415e+000
h = 5.25232261e-001
i = 2.70385988e-005
j = 2.64513677e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.60883204e-005
b = 5.25265965e-001
c = -4.17978211e+000
d = -8.28714253e-005
m = 3.9
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	2.82020	0.00000	0.00000
-1.0000	34.9126	2.81161	7.82785	2.81163	0.00003
1.0000	34.9124	2.98339	8.03262	2.98338	-0.00001
15.0000	34.9129	4.28221	9.43651	4.28214	-0.00007
18.5000	34.9117	4.62966	9.77755	4.62970	0.00005
29.0000	34.9071	5.71551	10.77243	5.71556	0.00005
32.5001	34.8949	6.08815	11.09280	6.08812	-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

