

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1568
CALIBRATION DATE: 17-Jun-09

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

GHIJ COEFFICIENTS

g = -4.00910742e+000
h = 5.19416630e-001
i = -1.88715755e-004
j = 3.31460291e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.73594072e-006
b = 5.18870292e-001
c = -4.00768053e+000
d = -8.60876440e-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	2.77893	0.00000	0.00000
-1.0000	34.6282	2.79083	7.83474	2.79086	0.00003
1.0000	34.6290	2.96148	8.04088	2.96145	-0.00003
15.0000	34.6301	4.25118	9.45329	4.25116	-0.00002
18.5000	34.6296	4.59627	9.79629	4.59630	0.00004
29.0000	34.6290	5.67508	10.79709	5.67506	-0.00002
32.5000	34.6244	6.04630	11.12027	6.04631	0.00001

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

