

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1054
CALIBRATION DATE: 06-Jul-06

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

GHIJ COEFFICIENTS

g = -4.09039282e+000
h = 5.91693315e-001
i = -4.44175987e-005
j = 3.78746008e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.48236790e-005
b = 5.91521037e-001
c = -4.08977113e+000
d = -8.06629134e-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	2.62894	0.00000	0.00000
-0.9948	34.8804	2.80970	7.36481	2.80971	0.00001
1.0763	34.8806	2.98756	7.56490	2.98755	-0.00000
14.9999	34.8815	4.27875	8.88166	4.27871	-0.00004
18.4999	34.8808	4.62599	9.20326	4.62603	0.00004
28.9999	34.8793	5.71146	10.14153	5.71146	-0.00001
32.4999	34.8719	6.08458	10.44419	6.08458	-0.00000

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

