

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1054
CALIBRATION DATE: 17-Nov-06

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

GHIJ COEFFICIENTS

g = -4.08875334e+000
h = 5.91207104e-001
i = 5.04517120e-005
j = 3.25159496e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.96730441e-005
b = 5.91174542e-001
c = -4.08826459e+000
d = -1.06969522e-004
m = 3.8
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	2.62902	0.00000	0.00000
-0.9971	34.9671	2.81583	7.37210	2.81585	0.00001
14.9999	34.9675	4.28818	8.89085	4.28811	-0.00007
18.4999	34.9652	4.63597	9.21271	4.63603	0.00006
28.9999	34.9619	5.72346	10.15193	5.72349	0.00002
32.4999	34.9577	6.09784	10.45533	6.09782	-0.00002

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

