

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 21-May-09

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

GHIJ COEFFICIENTS

g = -3.97261275e+000
h = 5.02217789e-001
i = -8.67760961e-005
j = 3.26967809e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.11220106e-005
b = 5.01938043e-001
c = -3.97166363e+000
d = -8.10231608e-005
m = 4.1
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	2.81245	0.00000	0.00000
-1.0000	34.7432	2.79924	7.96699	2.79926	0.00002
1.0000	34.7437	2.97035	8.17669	2.97034	-0.00001
15.0000	34.7452	4.26381	9.61302	4.26375	-0.00006
18.4999	34.7448	4.60990	9.96179	4.60995	0.00006
29.0000	34.7444	5.69187	10.97900	5.69188	0.00002
32.5000	34.7387	6.06399	11.30718	6.06397	-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

