

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 14-Aug-07

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

GHIJ COEFFICIENTS

g = -3.97191978e+000
h = 5.01989866e-001
i = -3.96061433e-005
j = 2.99456141e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.08077262e-005
b = 5.01959256e-001
c = -3.97236778e+000
d = -9.29555154e-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	2.81254	0.00000	0.00000
-1.0002	34.9478	2.81416	7.98558	2.81414	-0.00002
0.9998	34.9475	2.98609	8.19588	2.98612	0.00003
14.9998	34.9479	4.28602	9.63608	4.28605	0.00003
18.4998	34.9482	4.63395	9.98570	4.63391	-0.00004
28.9999	34.9441	5.72088	11.00535	5.72091	0.00003
32.4999	34.9365	6.09456	11.33417	6.09455	-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

