

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1030
CALIBRATION DATE: 10-Oct-07

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

GHIJ COEFFICIENTS

g = -4.06509104e+000
h = 5.72477586e-001
i = 9.91320702e-005
j = 2.76026310e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.59954905e-005
b = 5.72678726e-001
c = -4.06561799e+000
d = -8.48775158e-005
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	2.66368	0.00000	0.00000
-1.0002	34.9689	2.81570	7.48740	2.81571	0.00001
0.9998	34.9695	2.98779	7.68407	2.98779	0.00000
14.9998	34.9707	4.28852	9.03148	4.28852	-0.00001
18.4998	34.9710	4.63665	9.35875	4.63663	-0.00002
28.9998	34.9688	5.72445	10.31360	5.72452	0.00006
32.4998	34.9616	6.09843	10.62154	6.09839	-0.00004

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

