

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0670
CALIBRATION DATE: 10-Oct-07

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

GHIJ COEFFICIENTS

g = -4.30722667e+000
h = 4.56851611e-001
i = 4.68922401e-004
j = -1.29683656e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.10482043e-004
b = 4.56549000e-001
c = -4.30677125e+000
d = -8.70674281e-005
m = 2.9
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	3.06574	0.00000	0.00000
-1.0002	34.9689	2.81570	8.39450	2.81571	0.00001
0.9998	34.9695	2.98779	8.61322	2.98779	0.00000
14.9998	34.9707	4.28852	10.11296	4.28852	-0.00000
18.4998	34.9710	4.63665	10.47753	4.63663	-0.00002
28.9998	34.9688	5.72445	11.54190	5.72451	0.00005
32.4998	34.9616	6.09843	11.88541	6.09840	-0.00003

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

