

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1387
CALIBRATION DATE: 21-May-09

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

GHIJ COEFFICIENTS

g = -4.22576624e+000
h = 4.81295384e-001
i = -1.32359716e-004
j = 3.11389992e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.05231571e-005
b = 4.80969155e-001
c = -4.22528681e+000
d = -9.18414499e-005
m = 4.3
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	2.96347	0.00000	0.00000
-1.0000	34.7432	2.79924	8.17326	2.79926	0.00002
1.0000	34.7437	2.97035	8.38677	2.97034	-0.00001
15.0000	34.7452	4.26381	9.85022	4.26374	-0.00008
18.4999	34.7448	4.60990	10.20579	4.60994	0.00005
29.0000	34.7444	5.69187	11.24326	5.69193	0.00006
32.5000	34.7387	6.06399	11.57798	6.06394	-0.00005

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

