

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 19-Mar-09

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

GHIJ COEFFICIENTS

g = -4.02150996e+000
h = 5.29684879e-001
i = 7.18463174e-006
j = 3.06584010e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.02855394e-005
b = 5.29599974e-001
c = -4.02088003e+000
d = -7.71653877e-005
m = 3.9
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	2.75475	0.00000	0.00000
-1.0000	34.8034	2.80363	7.76565	2.80363	-0.00001
1.0000	34.8031	2.97494	7.96975	2.97497	0.00002
15.0000	34.8040	4.27026	9.36790	4.27023	-0.00004
18.5000	34.8038	4.61689	9.70741	4.61688	-0.00001
29.0000	34.8006	5.70004	10.69773	5.70013	0.00010
32.5000	34.7945	6.07262	11.01718	6.07255	-0.00006

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

