

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 20-Feb-10

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

GHIJ COEFFICIENTS

g = -4.07014458e+000
h = 5.35999062e-001
i = 3.39171407e-005
j = 2.96594909e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.07342848e-005
b = 5.36052191e-001
c = -4.07025156e+000
d = -8.34362182e-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	2.75482	0.00000	0.00000
-1.0000	34.7437	2.79927	7.71966	2.79928	0.00001
0.9999	34.7440	2.97036	7.92223	2.97037	0.00000
14.9999	34.7444	4.26372	9.31007	4.26370	-0.00001
18.4999	34.7444	4.60985	9.64714	4.60984	-0.00000
28.9999	34.7419	5.69149	10.63045	5.69153	0.00004
32.5000	34.7324	6.06301	10.94730	6.06299	-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

