

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1347
CALIBRATION DATE: 27-Feb-08

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

GHIJ COEFFICIENTS

g = -4.08908102e+000
h = 5.37542851e-001
i = -3.86439247e-005
j = 3.29889116e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.04624125e-005
b = 5.37385360e-001
c = -4.08845361e+000
d = -8.07133183e-005
m = 4.0
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	2.75771	0.00000	0.00000
-1.0000	34.9366	2.81336	7.73035	2.81336	-0.00000
1.0000	34.9367	2.98527	7.93320	2.98528	0.00001
15.0000	34.9377	4.28493	9.32299	4.28489	-0.00003
18.5000	34.9373	4.63268	9.66052	4.63272	0.00003
29.0000	34.9359	5.71970	10.64519	5.71969	-0.00001
32.5000	34.9302	6.09360	10.96300	6.09360	0.00000

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

