

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2206
CALIBRATION DATE: 24-Feb-04

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

GHIJ COEFFICIENTS

g = -1.05390943e+001
h = 1.67292593e+000
i = -3.77225759e-003
j = 3.70156300e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.14144753e-008
b = 1.66212681e+000
c = -1.05150676e+001
d = -6.50012442e-005
m = 8.2
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	2.51532	0.00000	0.00000
-1.0002	34.8359	2.80599	4.81722	2.80599	-0.00000
0.9998	34.8367	2.97752	4.92314	2.97753	0.00000
14.9998	34.8375	4.27392	5.65954	4.27392	0.00000
18.4998	34.8375	4.62086	5.84077	4.62085	-0.00001
28.9999	34.8363	5.70521	6.37377	5.70522	0.00000
32.4998	34.8325	6.07847	6.54708	6.07847	-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

