

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 20-Aug-92

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

GHIJ COEFFICIENTS

g = -4.32674847e+000
h = 5.05048834e-001
i = 5.87178998e-005
j = 2.59737200e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.24451775e-006
b = 5.06567843e-001
c = -4.33667261e+000
d = 9.04225810e-004
m = 5.1
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	2.92580	0.00000	0.00000
-1.2617	35.0785	2.80143	7.98543	2.80144	0.00001
7.5339	35.0803	3.58522	8.89673	3.58520	-0.00002
15.3198	35.0807	4.33215	9.68455	4.33217	0.00002
23.1849	35.0807	5.12890	10.45843	5.12889	-0.00001

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

