

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 11-Mar-03

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

GHIJ COEFFICIENTS

g = -4.06360063e+000
h = 4.75174874e-001
i = -6.67340377e-005
j = 2.73912998e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.78959218e-005
b = 4.74976438e-001
c = -4.06302348e+000
d = -8.33002033e-005
m = 4.1
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	2.92423	0.00000	0.00000
-0.5002	32.7160	2.69078	8.06279	2.69077	-0.00000
0.9998	32.7161	2.81287	8.21970	2.81287	0.00000
14.9998	32.7174	4.04031	9.65447	4.04028	-0.00002
18.4998	32.7172	4.36878	10.00311	4.36883	0.00005
28.9998	32.7158	5.39550	11.02028	5.39543	-0.00006
32.4998	32.7102	5.74864	11.34874	5.74868	0.00004

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

