

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 07-May-98

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

GHIJ COEFFICIENTS

g = -4.33143418e+000
h = 5.07078153e-001
i = -2.84890616e-004
j = 4.93234381e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.15410712e-005
b = 5.06222038e-001
c = -4.32891232e+000
d = -8.41846871e-005
m = 4.4
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	2.92384	0.00000	0.00000
-1.4139	34.1650	2.72252	7.88241	2.72255	0.00003
1.1246	34.1666	2.93629	8.14392	2.93627	-0.00001
15.2439	34.1660	4.22369	9.56644	4.22364	-0.00006
18.6810	34.1636	4.55887	9.90265	4.55888	0.00000
29.2239	34.1597	5.63009	10.90585	5.63021	0.00012
32.6636	34.1560	5.99103	11.22283	5.99094	-0.00008

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

