

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1374
 CALIBRATION DATE: 21-Aug-03

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

GHIJ COEFFICIENTS

g = -4.27722715e+000
 h = 5.22069177e-001
 i = -1.16132066e-004
 j = 3.60176700e-005
 CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.70741573e-005
 b = 5.21782391e-001
 c = -4.27671570e+000
 d = -8.85126117e-005
 m = 4.2
 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	2.86241	-0.00000	-0.00000
-1.0004	34.8990	2.81058	7.86591	2.81060	0.00002
0.9996	34.8995	2.98236	8.07112	2.98236	-0.00001
14.9996	34.9006	4.28082	9.47763	4.28075	-0.00007
18.4996	34.8999	4.62822	9.81936	4.62827	0.00005
28.9996	34.8991	5.71431	10.81646	5.71434	0.00003
32.4996	34.8950	6.08811	11.13846	6.08809	-0.00002

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

