

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553
CALIBRATION DATE: 15-Feb-07

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

GHIJ COEFFICIENTS

g = -4.17931315e+000
h = 5.25141783e-001
i = 4.96148935e-005
j = 2.49311258e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.55822433e-005
b = 5.25295641e-001
c = -4.18001518e+000
d = -8.79608645e-005
m = 3.9
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	2.82016	0.00000	0.00000
-1.0001	34.8567	2.80752	7.82292	2.80756	0.00004
1.0160	34.8573	2.98052	8.02922	2.98050	-0.00003
14.9999	34.8571	4.27608	9.43048	4.27603	-0.00005
18.4999	34.8560	4.62306	9.77126	4.62307	0.00001
28.9999	34.8532	5.70767	10.76582	5.70776	0.00009
32.4999	34.8451	6.08043	11.08648	6.08037	-0.00006

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

