

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1054
CALIBRATION DATE: 19-Sep-07

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

GHIJ COEFFICIENTS

g = -4.08619571e+000
h = 5.90577030e-001
i = 1.56526927e-004
j = 2.80487020e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.20045304e-005
b = 5.90814176e-001
c = -4.08653534e+000
d = -8.13613804e-005
m = 3.7
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	2.62905	0.00000	0.00000
-1.0002	34.9324	2.81304	7.36917	2.81303	-0.00001
0.9998	34.9324	2.98492	7.56253	2.98494	0.00001
14.9998	34.9342	4.28452	8.88751	4.28450	-0.00002
18.4998	34.9339	4.63226	9.20931	4.63227	0.00001
28.9998	34.9321	5.71912	10.14827	5.71915	0.00003
32.4998	34.9261	6.09294	10.45130	6.09292	-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

Date, Slope Correction

