

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3338
CALIBRATION DATE: 17-Mar-09

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

GHIJ COEFFICIENTS

g = -1.01963172e+001
h = 1.57770281e+000
i = -2.79813484e-003
j = 3.11308744e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.19967014e-007
b = 1.57033579e+000
c = -1.01816622e+001
d = -8.18707284e-005
m = 6.5
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	2.54632	0.00000	0.00000
-1.0000	34.8367	2.80607	4.93402	2.80606	-0.00000
1.0000	34.8370	2.97757	5.04336	2.97757	0.00001
14.9999	34.8380	4.27398	5.80318	4.27399	0.00001
18.4999	34.8384	4.62097	5.99005	4.62094	-0.00003
29.0000	34.8368	5.70530	6.53939	5.70534	0.00005
32.5000	34.8323	6.07846	6.71787	6.07844	-0.00003

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

