

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: 1018
CALIBRATION DATE: 17-Nov-06

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

GHIJ COEFFICIENTS

g = -4.08764966e+000
h = 4.62458319e-001
i = -3.76655454e-004
j = 4.38033331e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.66209003e-006
b = 4.61196750e-001
c = -4.08355612e+000
d = -1.21513196e-004
m = 4.7
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	2.97539	0.00000	0.00000
-0.9971	34.9671	2.81583	8.35112	2.81585	0.00002
14.9999	34.9675	4.28818	10.07097	4.28807	-0.00011
18.4999	34.9652	4.63597	10.43532	4.63608	0.00010
28.9999	34.9619	5.72346	11.49762	5.72348	0.00001
32.4999	34.9577	6.09784	11.84060	6.09782	-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

