

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

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

SENSOR SERIAL NUMBER: 2170
CALIBRATION DATE: 05-Nov-10

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

GHIJ COEFFICIENTS

g = -1.04860348e+001
h = 1.46710495e+000
i = -2.68808217e-003
j = 2.62415949e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.86150355e-008
b = 1.45922496e+000
c = -1.04671301e+001
d = -7.18619264e-005
m = 7.2
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	2.67833	0.00000	0.00000
-1.0000	34.9227	2.81235	5.14206	2.81235	0.00000
1.0000	34.9235	2.98425	5.25529	2.98426	0.00000
15.0000	34.9243	4.28346	6.04245	4.28344	-0.00001
18.4999	34.9239	4.63109	6.23613	4.63109	0.00000
29.0000	34.9225	5.71775	6.80574	5.71776	0.00001
32.5000	34.9162	6.09143	6.99075	6.09142	-0.00001

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

