# Sea-Bird Electronics, Inc.

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### SENSOR SERIAL NUMBER: 1013 CALIBRATION DATE: 14-Dec-12

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

#### **GHIJ COEFFICIENTS**

## g = -4.12353719e+000h = 5.70764685e-001i = 4.34408106e-004j = 9.53989866e - 006

CTcor = 3.2500e-006 (nominal)

CPcor = -9.5700e-008 (nominal)

#### **ABCDM COEFFICIENTS**

a = 3.17672015e-004b = 5.71001895e-001c = -4.12382746e+000d = -8.84931851e - 005

m = 3.2

CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.68496	0.0000	0.00000
-0.9999	34.7606	2.80052	7.47796	2.80052	0.00000
1.0001	34.7611	2.97170	7.67386	2.97170	-0.00000
15.0001	34.7616	4.26562	9.01638	4.26562	0.00000
18.5001	34.7616	4.61191	9.34257	4.61190	-0.00000
32.5001	34.7487	6.06554	10.60134	6.06554	0.00000

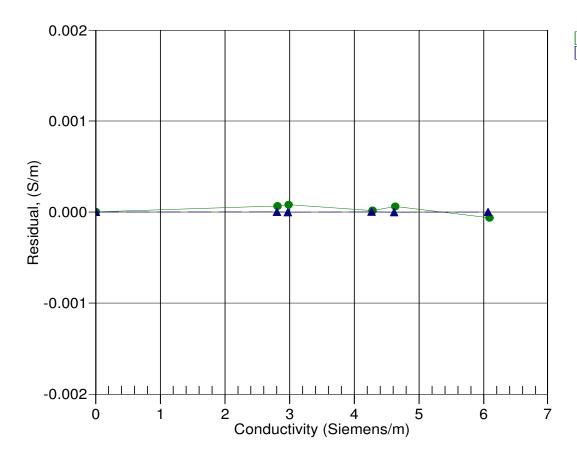
Conductivity =  $(g + hf^2 + if^3 + jf^4)/10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^{m} + bf^{2} + c + dt) / [10 (1 + \varepsilon p)]$  Siemens/meter

t = temperature[°C); p = pressure[decibars];  $\delta = CTcor$ ;  $\varepsilon = CPcor$ ;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



22-Dec-10 0.9999958 14-Dec-12 1.0000000