# Sea-Bird Electronics, Inc.

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#### SENSOR SERIAL NUMBER: 0304 CALIBRATION DATE: 11-Jan-12

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

#### **GHIJ COEFFICIENTS**

### g = -4.08173136e+000h = 4.33729635e-001i = -7.82976130e-004j = 5.76856448e - 005CPcor = -9.5700e-008 (nominal)CTcor = 3.2500e-006 (nominal)

#### ABCDM COEFFICIENTS

115 05 111 0 0 51 1 1 0 151 1 1 5						
a =	2.05215222e-007					
b =	4.30500743e-001					
c =	-4.06811703e+000					
d =	-7.25430006e-005					
m =	5.7					

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	3.07430	0.00000	0.00000
-1.0000	34.8590	2.80769	8.63529	2.80774	0.00004
1.0000	34.8597	2.97932	8.86211	2.97929	-0.00003
15.0000	34.8590	4.27630	10.41552	4.27627	-0.00003
18.5000	34.8586	4.62337	10.79248	4.62337	-0.00001
29.0000	34.8559	5.70807	11.89141	5.70816	0.00009
32.5000	34.8476	6.08083	12.24529	6.08077	-0.00006

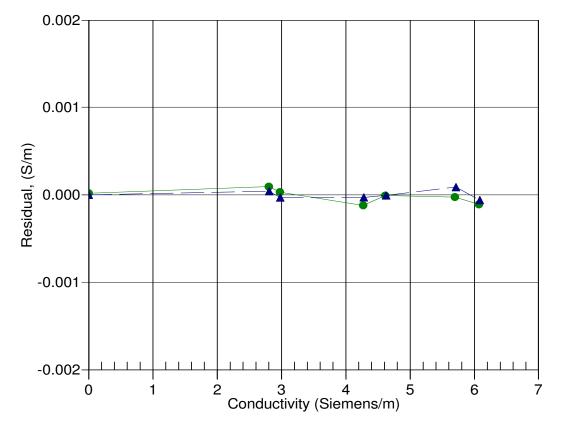
Conductivity =  $(g + hf^2 + if^3 + jf^4)/10(1 + \delta t + \epsilon p)$  Siemens/meter

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

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

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

Date, Slope Correction





25-May-11 1.0000081 11-Jan-12 1.0000000