

# Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0655  
CALIBRATION DATE: 11-Jan-12

SBE16 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

## GHIJ COEFFICIENTS

g = -3.97291422e+000  
h = 4.74613375e-001  
i = 9.48119886e-004  
j = -1.39472108e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 4.27194053e-003  
b = 4.69084959e-001  
c = -3.96366133e+000  
d = -9.28357368e-005  
m = 2.5  
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)
22.0000	0.0000	0.00000	2.88529	0.00000	0.00000
0.9999	34.9075	2.98301	8.37808	2.98300	-0.00001
4.5000	34.8868	3.29072	8.74878	3.29073	0.00001
14.9999	34.8423	4.27445	9.83919	4.27446	0.00000
18.5000	34.8321	4.62024	10.19436	4.62023	-0.00000
24.0000	34.8201	5.17913	10.74322	5.17913	-0.00000
29.0000	34.8102	5.70143	11.23154	5.70143	0.00000

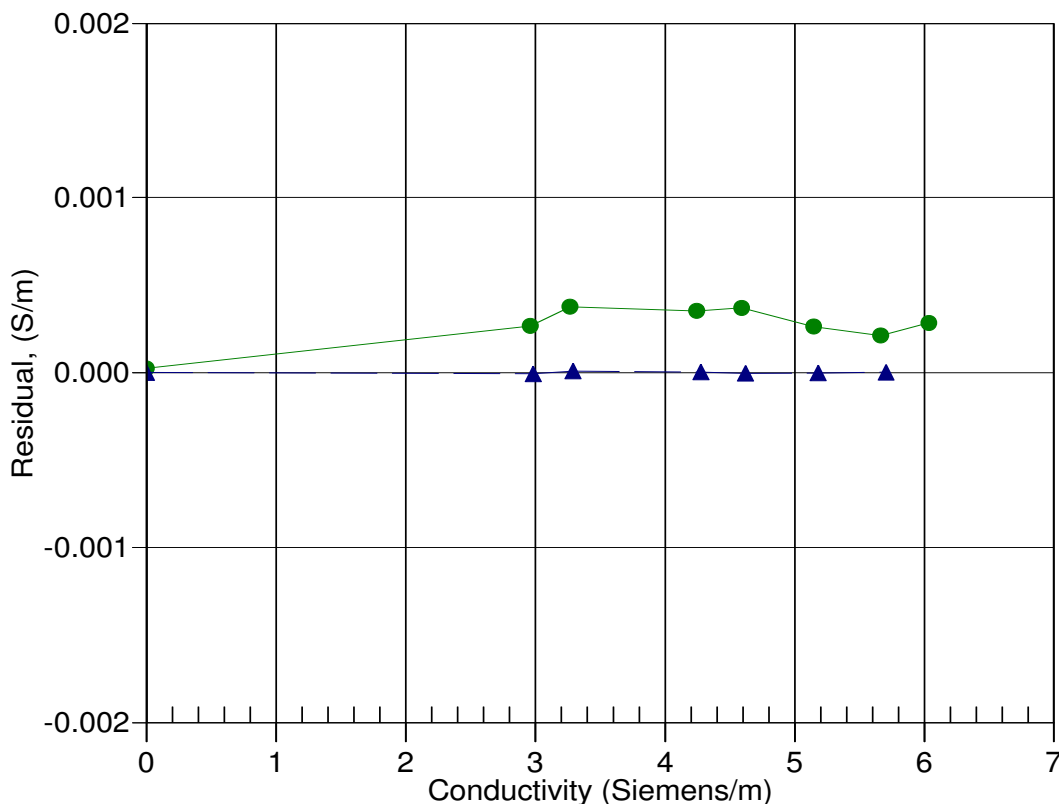
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  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



01-Apr-11 0.9999383  
11-Jan-12 1.0000000