

# 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: 3009  
CALIBRATION DATE: 07-Jul-12

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

### GHIJ COEFFICIENTS

g = -1.04869875e+001  
h = 1.48793870e+000  
i = 3.04290966e-004  
j = 5.41928056e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

### ABCDM COEFFICIENTS

a = 2.48606509e-004  
b = 1.48803234e+000  
c = -1.04868237e+001  
d = -8.35986620e-005  
m = 3.5  
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)
0.0000	0.0000	0.00000	2.65375	0.00000	0.00000
-0.9999	34.9530	2.81457	5.09040	2.81454	-0.00003
1.0001	34.9529	2.98653	5.20234	2.98656	0.00002
15.0001	34.9547	4.28680	5.98074	4.28679	-0.00001
18.5001	34.9542	4.63469	6.17232	4.63473	0.00003
29.0001	34.9503	5.72180	6.73560	5.72174	-0.00006
32.5001	34.9372	6.09469	6.91824	6.09473	0.00004

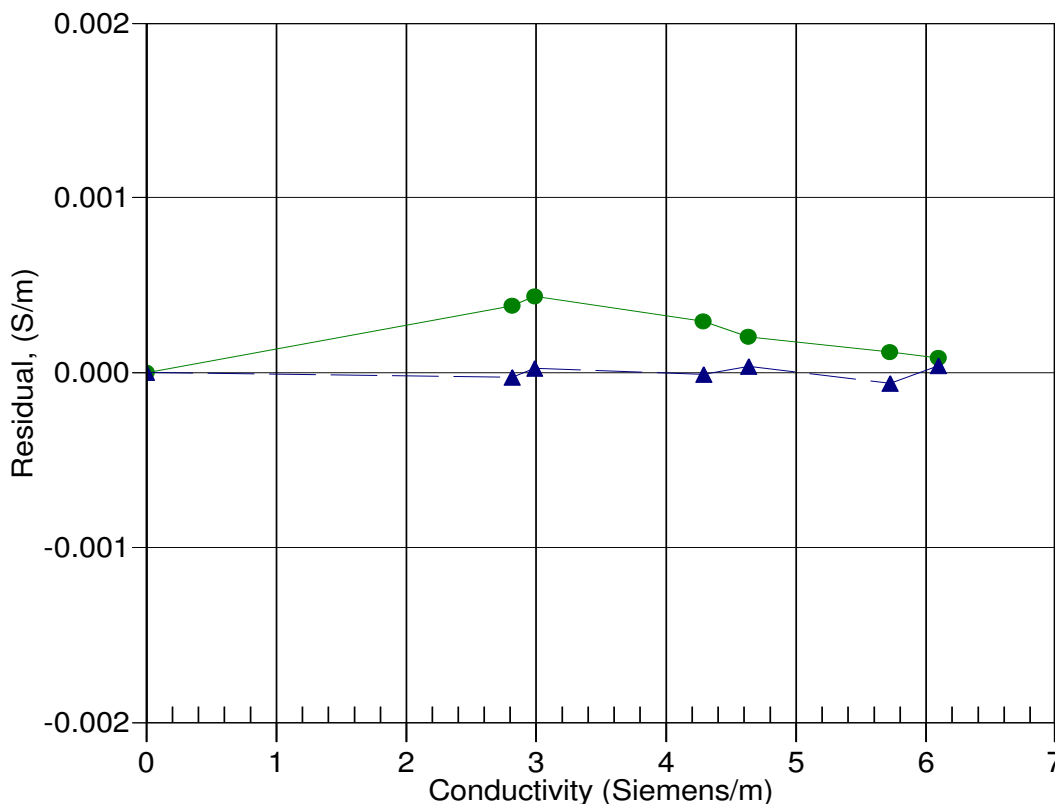
$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

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

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

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

Date, Slope Correction



● 20-Apr-11 0.9999544  
▲ 07-Jul-12 1.0000000