

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1018  
 CALIBRATION DATE: 18-Jul-13

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

### GHIJ COEFFICIENTS

g = -4.09024980e+000  
 h = 4.62892322e-001  
 i = -4.53714929e-004  
 j = 4.71005854e-005  
 CPcor = -9.5700e-008 (nominal)  
 CTcor = 3.2500e-006 (nominal)

### ABCDM COEFFICIENTS

a = 2.11286050e-006  
 b = 4.61324408e-001  
 c = -4.08504040e+000  
 d = -8.78165756e-005  
 m = 4.9  
 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	2.97559	0.00000	0.00000
-1.0000	34.8468	2.80680	8.33964	2.80685	0.00004
1.0001	34.8476	2.97839	8.55847	2.97836	-0.00003
15.0001	34.8492	4.27523	10.05758	4.27518	-0.00005
18.5000	34.8497	4.62232	10.42156	4.62232	0.00000
29.0001	34.8487	5.70704	11.48286	5.70714	0.00010
32.5001	34.8447	6.08039	11.82524	6.08032	-0.00007

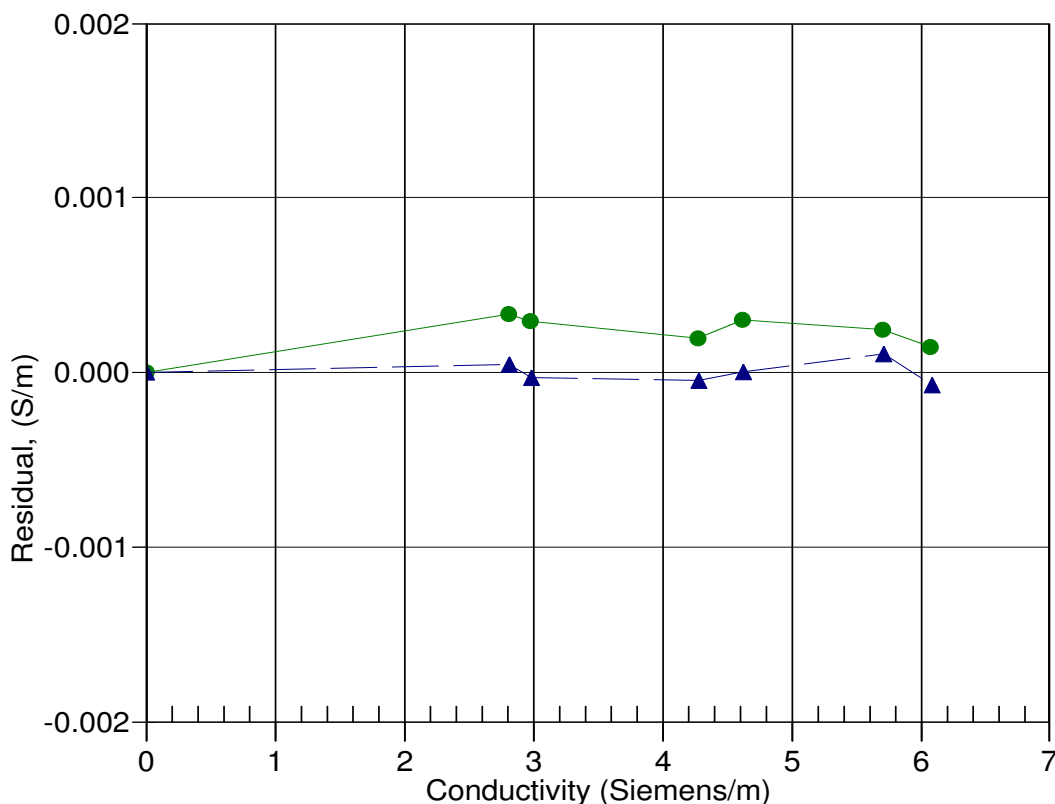
$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

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

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

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

Date, Slope Correction



● 13-Mar-12 0.9999500  
▲ 18-Jul-13 1.0000000