

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0497  
CALIBRATION DATE: 23-Mar-12

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

## GHIJ COEFFICIENTS

g = -4.25918749e+000  
h = 4.59808934e-001  
i = -3.18754963e-004  
j = 3.47905842e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.11733152e-006  
b = 4.58718859e-001  
c = -4.25552599e+000  
d = -8.74182664e-005  
m = 4.8  
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	3.04566	0.00000	0.00000
-0.9999	34.8871	2.80976	8.39071	2.80975	-0.00001
1.0001	34.8866	2.98141	8.60990	2.98143	0.00002
15.0001	34.8863	4.27930	10.11235	4.27928	-0.00002
18.5000	34.8862	4.62664	10.47738	4.62664	-0.00000
29.0001	34.8842	5.71220	11.54245	5.71223	0.00003
32.5001	34.8761	6.08525	11.88585	6.08523	-0.00002

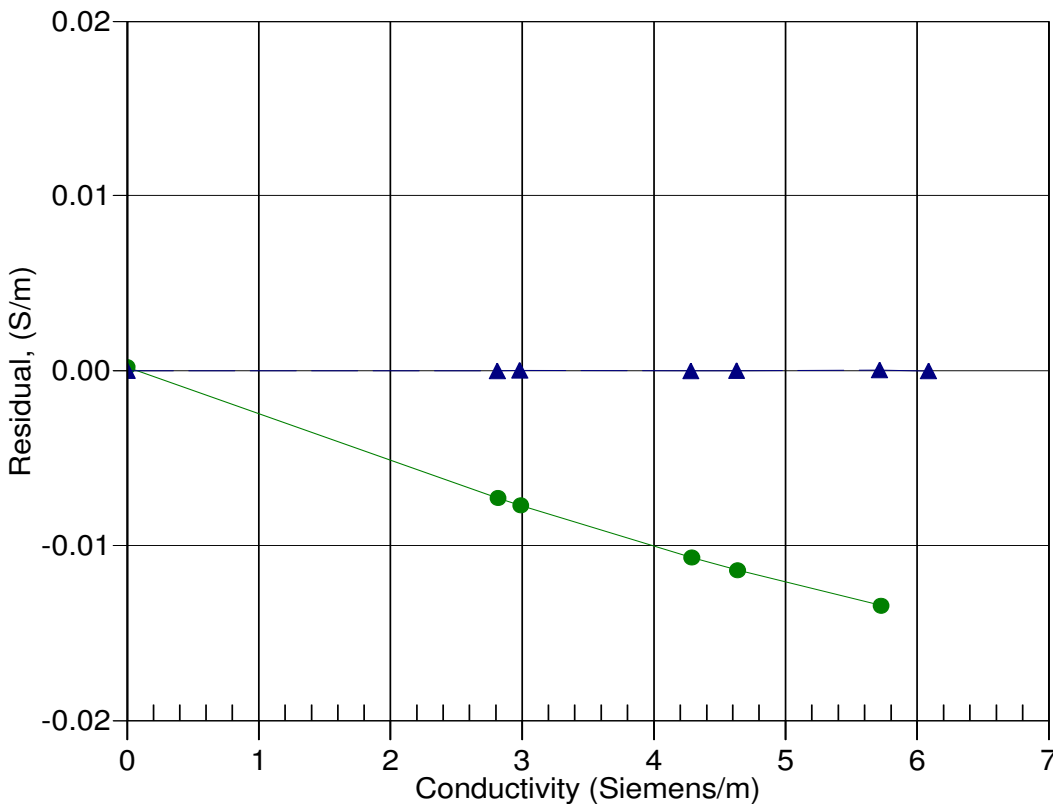
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 09-Feb-11 1.0024523  
▲ 23-Mar-12 1.0000000