

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3535  
CALIBRATION DATE: 23-Oct-12

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

## GHIJ COEFFICIENTS

g = -1.00830334e+001  
h = 1.23794050e+000  
i = -3.17945069e-003  
j = 2.50128463e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.97661301e-012  
b = 1.22685398e+000  
c = -1.00482444e+001  
d = -4.88994806e-005  
m = 11.7  
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	2.86211	0.00000	0.00000
-1.0000	34.8922	2.81012	5.57627	2.81012	-0.00000
1.0000	34.8925	2.98186	5.70042	2.98186	0.00001
15.0000	34.8930	4.28002	6.56289	4.28001	-0.00001
18.5000	34.8926	4.62740	6.77496	4.62740	0.00001
29.0000	34.8897	5.71298	7.39819	5.71300	0.00002
32.5001	34.8806	6.08594	7.60035	6.08593	-0.00001

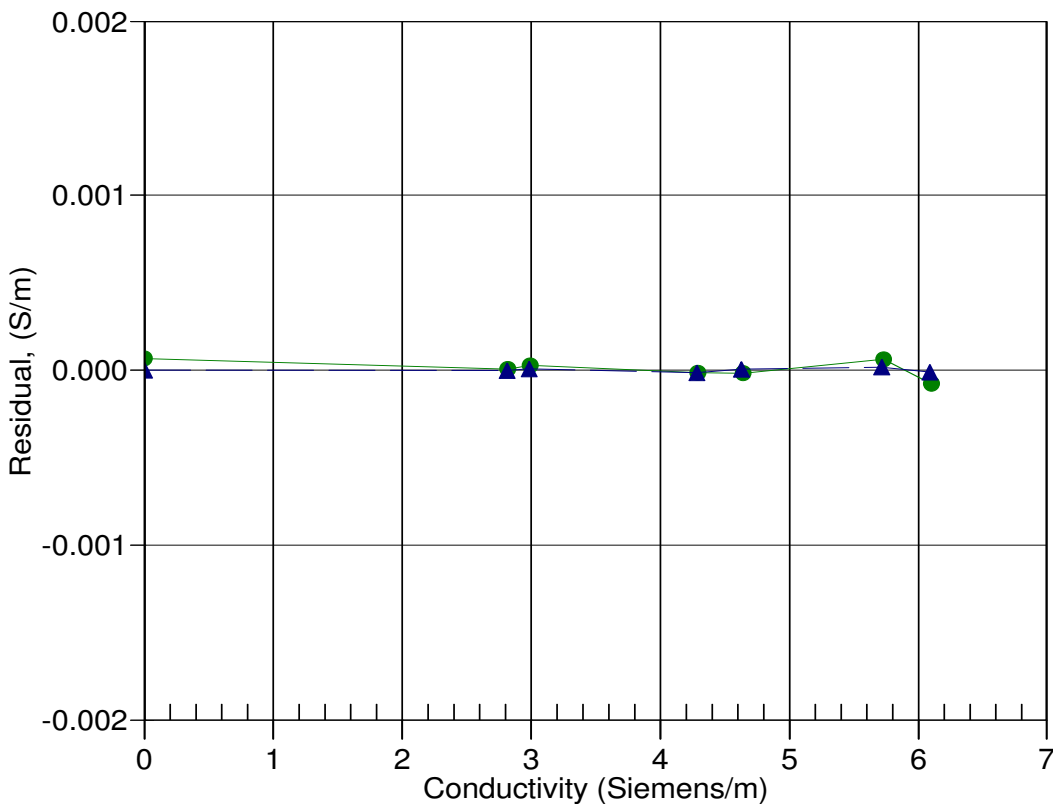
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 21-Sep-11 1.0000014  
▲ 23-Oct-12 1.0000000