

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2186  
CALIBRATION DATE: 03-Jul-12

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

## GHIJ COEFFICIENTS

g = -1.09614254e+001  
h = 1.45956137e+000  
i = -2.55204471e-003  
j = 2.37163743e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 7.07218345e-009  
b = 1.45183328e+000  
c = -1.09420047e+001  
d = -7.34935489e-005  
m = 8.1  
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	2.74536	0.00000	0.00000
-0.9986	34.6588	2.79319	5.17426	2.79319	0.00000
1.0000	34.6593	2.96382	5.28657	2.96382	0.00000
15.0000	34.6606	4.25453	6.06887	4.25452	-0.00001
18.5000	34.6605	4.59993	6.26157	4.59992	-0.00001
29.0000	34.6584	5.67936	6.82853	5.67939	0.00003
32.5001	34.6513	6.05047	7.01273	6.05045	-0.00002

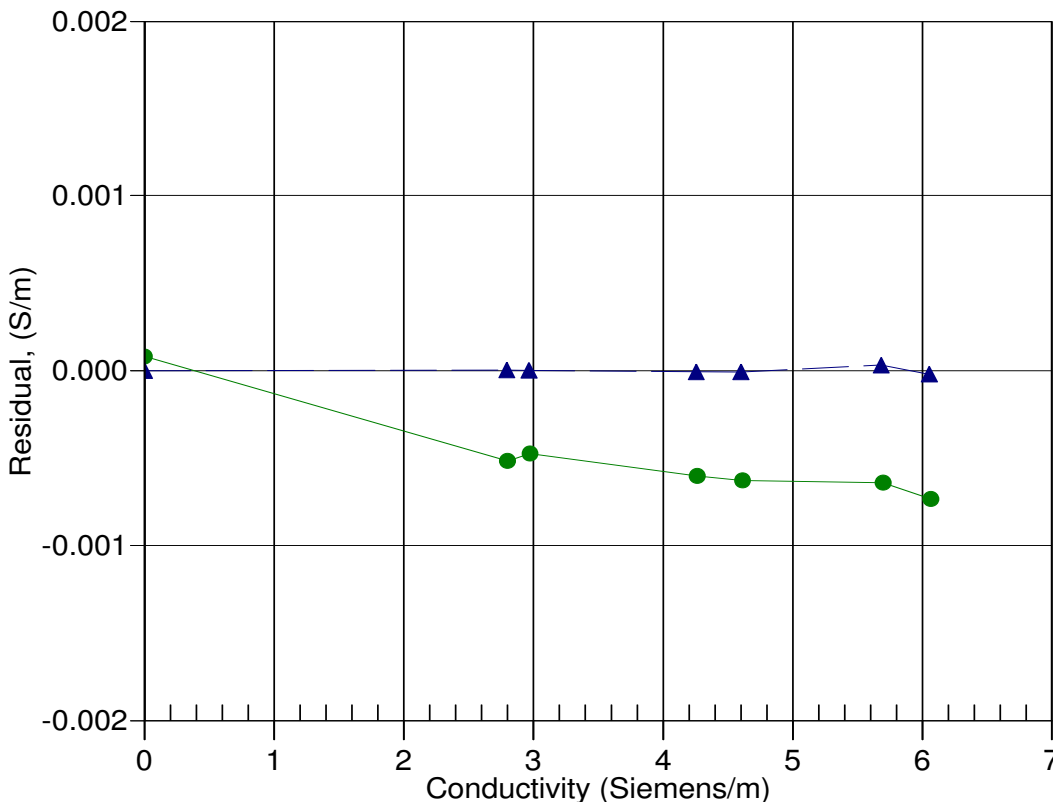
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 12-Jan-10 1.0001311  
▲ 03-Jul-12 1.0000000