

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0369  
CALIBRATION DATE: 27-Nov-13

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

## GHIJ COEFFICIENTS

g = -4.28423932e+000  
h = 5.37477716e-001  
i = -2.42202782e-003  
j = 1.62628991e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.35039407e-008  
b = 5.27373615e-001  
c = -4.24403758e+000  
d = -2.16740446e-005  
m = 7.1  
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	2.83803	0.00000	0.00000
-1.0000	34.8002	2.80340	7.82003	2.80340	0.00000
1.0000	34.8007	2.97476	8.02443	2.97475	-0.00001
15.0000	34.8015	4.26999	9.42364	4.27000	0.00001
18.5000	34.8011	4.61657	9.76289	4.61658	0.00001
29.0000	34.7998	5.69992	10.75114	5.69988	-0.00004
32.5002	34.7935	6.07249	11.06950	6.07251	0.00003

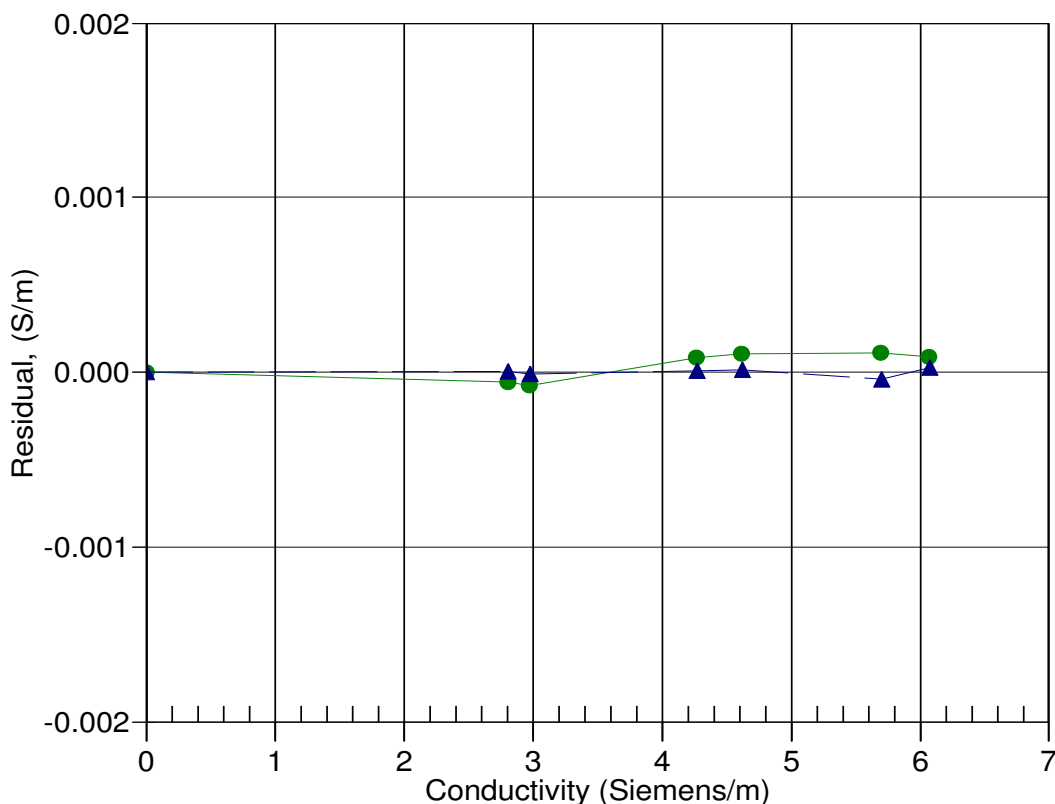
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



13-Feb-13 0.9999872  
27-Nov-13 1.0000000