

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1018  
CALIBRATION DATE: 13-Mar-12

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

## GHIJ COEFFICIENTS

g = -4.08829683e+000  
h = 4.62572849e-001  
i = -4.12254529e-004  
j = 4.56866115e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.82554492e-006  
b = 4.61180725e-001  
c = -4.08378360e+000  
d = -8.84100369e-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	2.97555	0.00000	0.00000
-0.9999	34.7866	2.80242	8.33434	2.80244	0.00003
1.0001	34.7863	2.97365	8.55291	2.97364	-0.00001
15.0001	34.7862	4.26832	10.05046	4.26825	-0.00007
18.5001	34.7854	4.61472	10.41404	4.61477	0.00005
29.0001	34.7843	5.69768	11.47426	5.69772	0.00005
32.5001	34.7789	6.07022	11.81624	6.07018	-0.00004

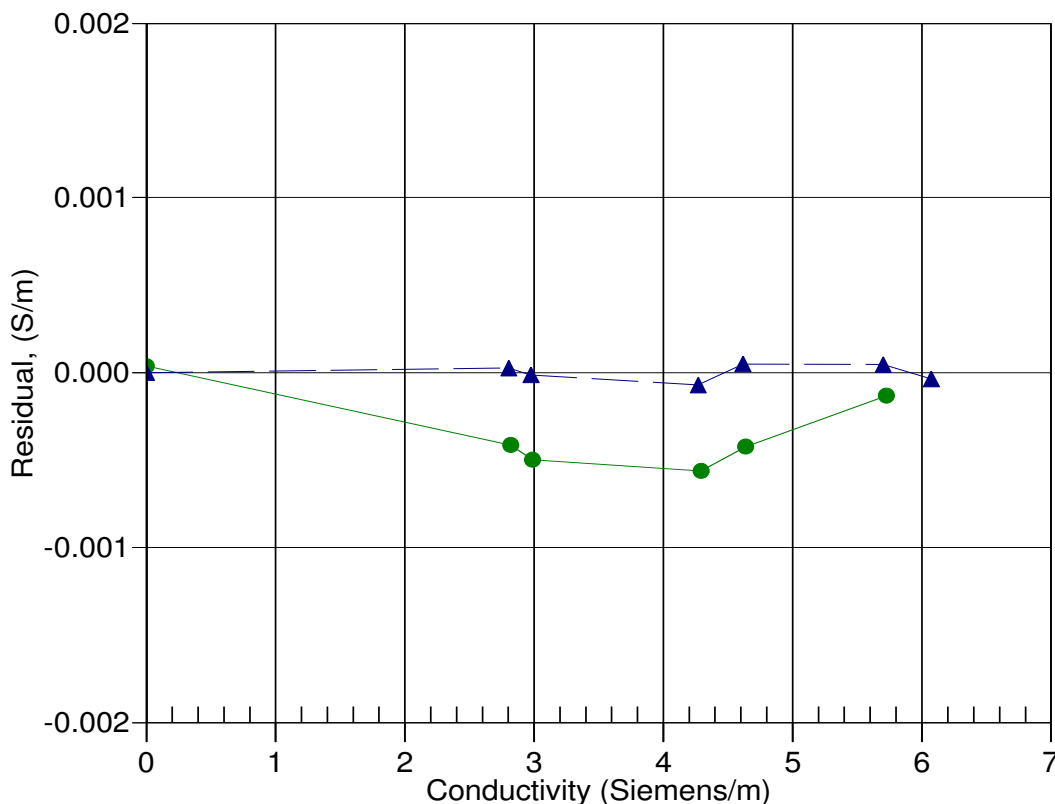
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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 1.0000871  
▲ 13-Mar-12 1.0000000