

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3042  
 CALIBRATION DATE: 29-Nov-12

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

## GHIJ COEFFICIENTS

g = -1.06506027e+001  
 h = 1.45090848e+000  
 i = -9.42311188e-005  
 j = 8.21109615e-005  
 CPcor = -9.5700e-008 (nominal)  
 CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 9.02872655e-005  
 b = 1.45053554e+000  
 c = -1.06496812e+001  
 d = -8.24636496e-005  
 m = 3.9  
 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	2.70904	0.00000	0.00000
-0.9999	34.7985	2.80328	5.16045	2.80328	0.00000
1.0001	34.7989	2.97463	5.27336	2.97463	0.00000
15.0001	34.7999	4.26982	6.05879	4.26983	0.00001
18.5001	34.8002	4.61647	6.25217	4.61646	-0.00001
29.0001	34.7979	5.69965	6.82099	5.69967	0.00001
32.5002	34.7894	6.07185	7.00569	6.07184	-0.00001

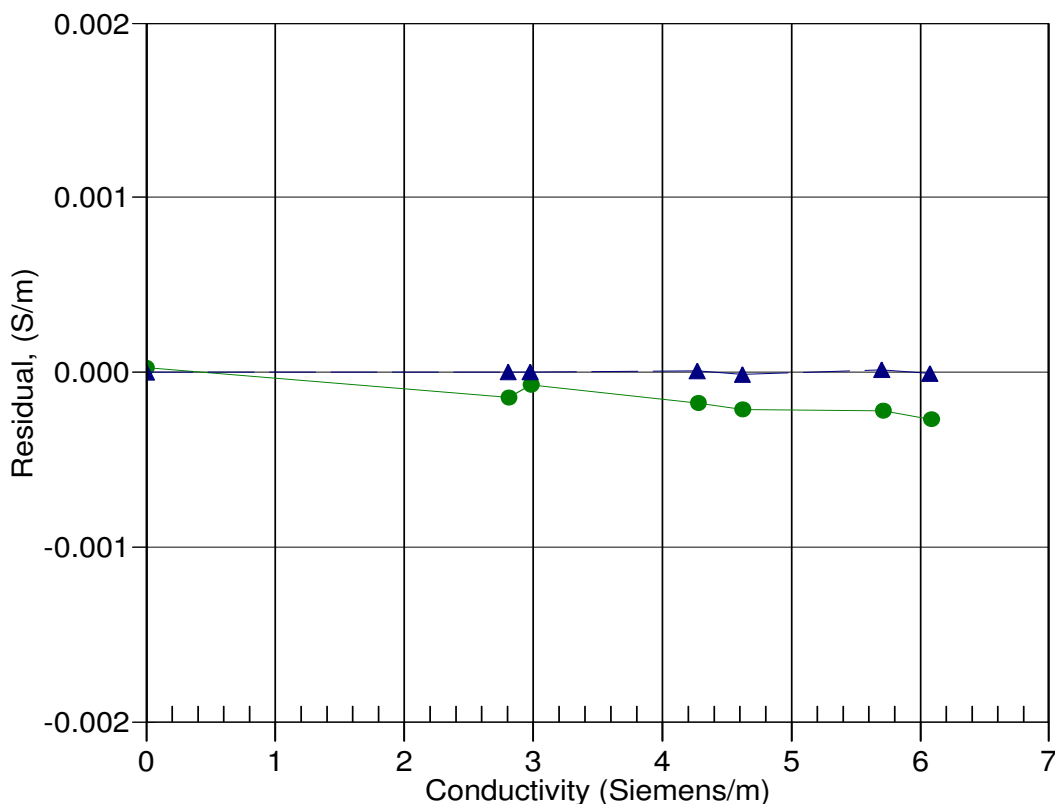
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



Legend:  
● 17-Feb-12 1.0000418  
▲ 29-Nov-12 1.0000000