

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3040  
CALIBRATION DATE: 20-Jul-12

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

## GHIJ COEFFICIENTS

g = -9.78229421e+000  
h = 1.36673112e+000  
i = 3.58131675e-004  
j = 4.63359533e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.38776552e-004  
b = 1.36703428e+000  
c = -9.78273897e+000  
d = -8.45826528e-005  
m = 3.5  
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	2.67408	0.00000	0.00000
-0.9999	34.6690	2.79382	5.24744	2.79384	0.00002
1.0001	34.6701	2.96467	5.36474	2.96464	-0.00002
15.0001	34.6708	4.25566	6.17941	4.25565	-0.00001
18.5001	34.6704	4.60111	6.37969	4.60112	0.00001
29.0001	34.6688	5.68088	6.96837	5.68088	-0.00000
32.5001	34.6602	6.05185	7.15937	6.05185	-0.00000

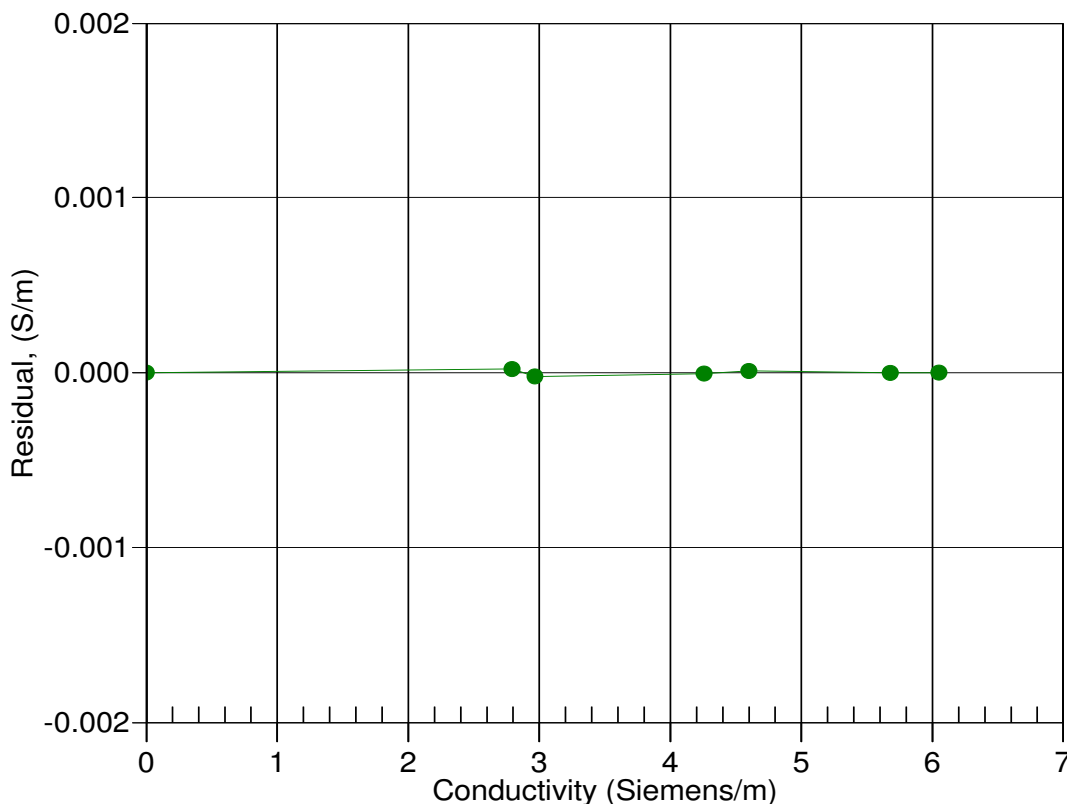
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



20-Jul-12 1.0000000