

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3115  
CALIBRATION DATE: 18-Aug-11

SBE16 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

## GHIJ COEFFICIENTS

g = -4.02794768e+000  
h = 4.79629568e-001  
i = 1.43404790e-003  
j = -3.41979271e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 6.23021385e-002  
b = 4.11886112e-001  
c = -4.00640915e+000  
d = -1.12527402e-004  
m = 2.1  
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)
22.0000	0.0000	0.00000	2.88637	0.00000	0.00000
1.0000	34.9808	2.98868	8.32621	2.98861	-0.00007
4.5000	34.9605	3.29698	8.69386	3.29704	0.00006
15.0000	34.9173	4.28269	9.77516	4.28276	0.00007
18.5000	34.9079	4.62921	10.12741	4.62920	-0.00001
24.0000	34.8974	5.18935	10.67198	5.18930	-0.00005
29.0000	34.8907	5.71313	11.15687	5.71306	-0.00007
32.5000	34.8864	6.08683	11.49029	6.08689	0.00007

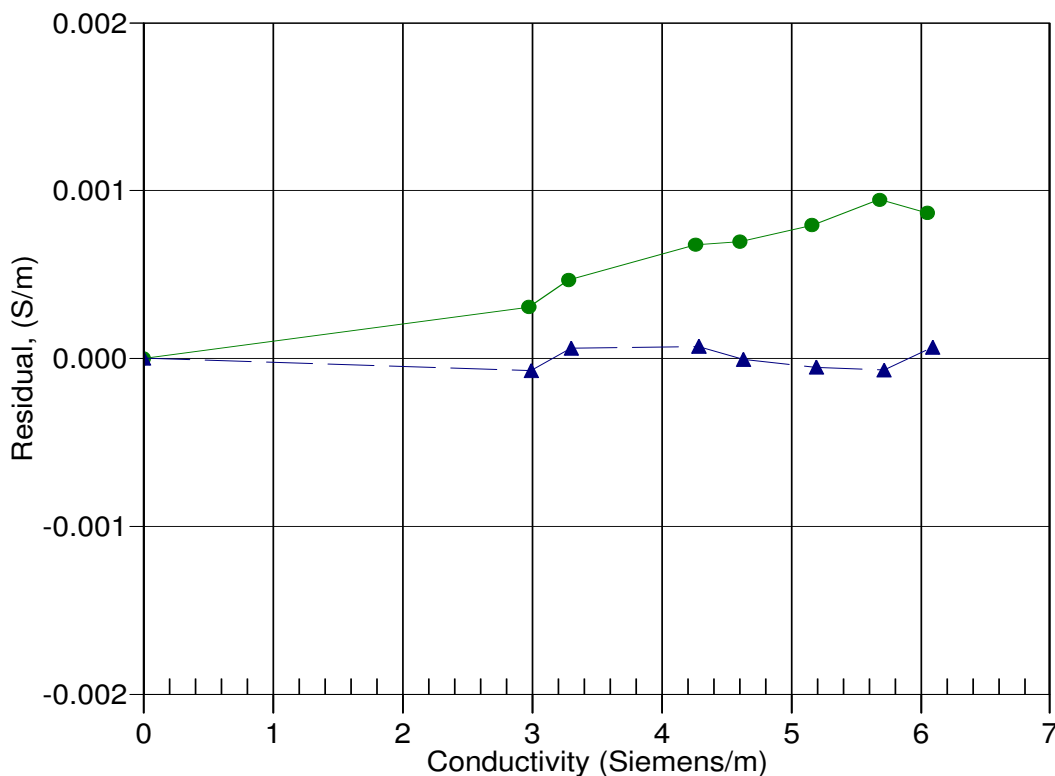
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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-Dec-09 0.9998495  
18-Aug-11 1.0000000