

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1568  
CALIBRATION DATE: 28-Jan-10

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

## GHIJ COEFFICIENTS

g = -4.00567506e+000  
h = 5.19079001e-001  
i = -1.49466392e-004  
j = 3.14982515e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.02842011e-005  
b = 5.18655268e-001  
c = -4.00458541e+000  
d = -8.54343172e-005  
m = 4.3  
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	2.77839	0.00000	0.00000
-0.9499	34.6321	2.79534	7.84079	2.79534	-0.00001
1.0815	34.6320	2.96874	8.05017	2.96876	0.00002
14.9999	34.6318	4.25136	9.45415	4.25134	-0.00002
18.4999	34.6310	4.59642	9.79711	4.59641	-0.00001
29.0000	34.6281	5.67495	10.79784	5.67502	0.00006
32.4999	34.6222	6.04595	11.12074	6.04591	-0.00004

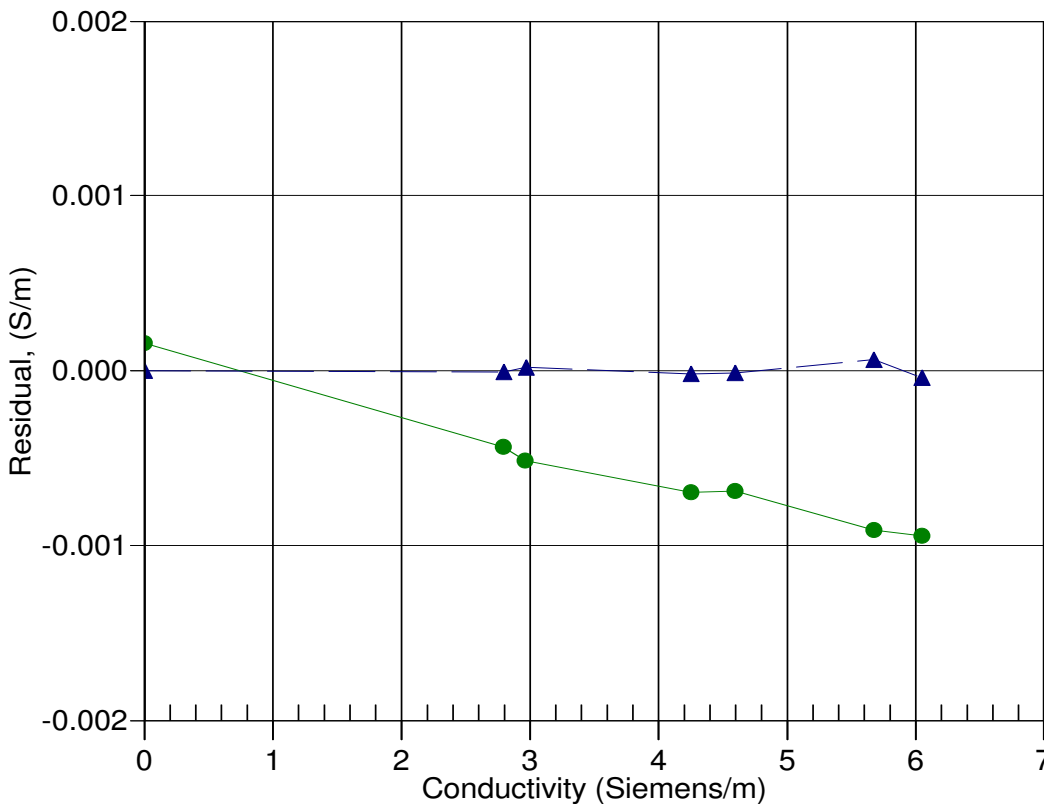
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 17-Jun-09 1.0001587  
▲ 28-Jan-10 1.0000000