

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553  
CALIBRATION DATE: 28-Jun-11

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

## GHIJ COEFFICIENTS

g = -4.17564640e+000  
h = 5.24333835e-001  
i = 2.02998740e-004  
j = 1.94574150e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 9.09532531e-005  
b = 5.24681082e-001  
c = -4.17643982e+000  
d = -8.22811366e-005  
m = 3.6  
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	2.82004	0.00000	0.00000
-1.0000	34.8911	2.81004	7.82512	2.81009	0.00006
1.0000	34.8921	2.98183	8.02978	2.98179	-0.00003
15.0000	34.8926	4.27998	9.43264	4.27991	-0.00007
18.5000	34.8922	4.62735	9.77347	4.62734	-0.00001
29.0001	34.8889	5.71288	10.76802	5.71306	0.00018
32.5000	34.8781	6.08555	11.08816	6.08542	-0.00012

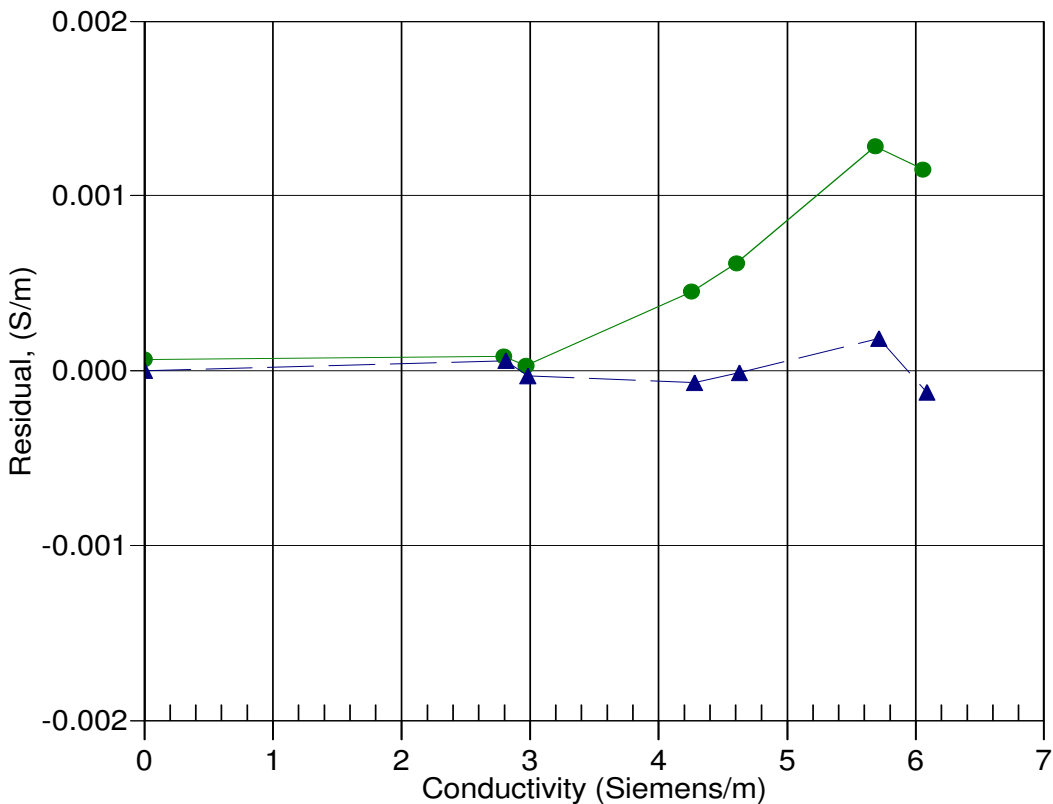
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 16-Jul-10 0.9998456  
▲ 28-Jun-11 1.0000000