

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553  
CALIBRATION DATE: 31-Jul-09

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

## GHIJ COEFFICIENTS

g = -4.17471578e+000  
h = 5.24069398e-001  
i = 2.59850494e-004  
j = 1.49726075e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 8.74839774e-005  
b = 5.24686029e-001  
c = -4.17644817e+000  
d = -7.00329695e-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	2.82011	0.00000	0.00000
-1.0000	34.7165	2.79729	7.81025	2.79731	0.00003
1.0000	34.7171	2.96829	8.01448	2.96827	-0.00003
15.0000	34.7194	4.26098	9.41472	4.26096	-0.00002
18.5000	34.7197	4.60694	9.75499	4.60696	0.00003
29.0000	34.7204	5.68838	10.74810	5.68837	-0.00000

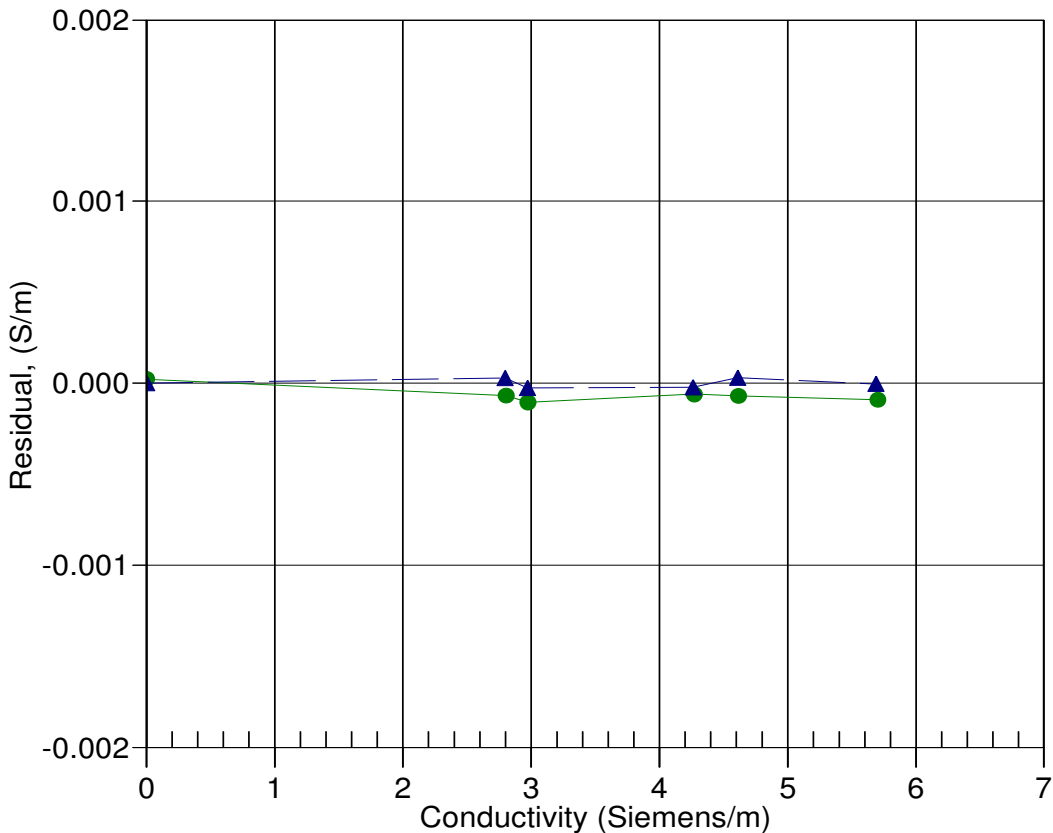
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 19-Sep-08 1.0000182  
▲ 31-Jul-09 1.0000000