

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0436  
CALIBRATION DATE: 06-Nov-07

SBE19 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -3.80970806e+000  
h = 4.55544834e-001  
i = 7.53543095e-004  
j = -1.73813516e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.36063065e-002  
b = 4.18893900e-001  
c = -3.79683239e+000  
d = -1.00484122e-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	2.88546	0.00000	0.00000
1.0000	34.6026	2.95941	8.51508	2.95941	-0.00000
4.5000	34.5829	3.26477	8.89420	3.26480	0.00003
15.0000	34.5395	4.24088	10.00931	4.24087	-0.00001
18.5000	34.5296	4.58398	10.37254	4.58391	-0.00007
24.0000	34.5154	5.13820	10.93380	5.13823	0.00003
29.0000	34.5093	5.65693	11.43397	5.65702	0.00009
32.5000	34.5056	6.02707	11.77761	6.02701	-0.00006

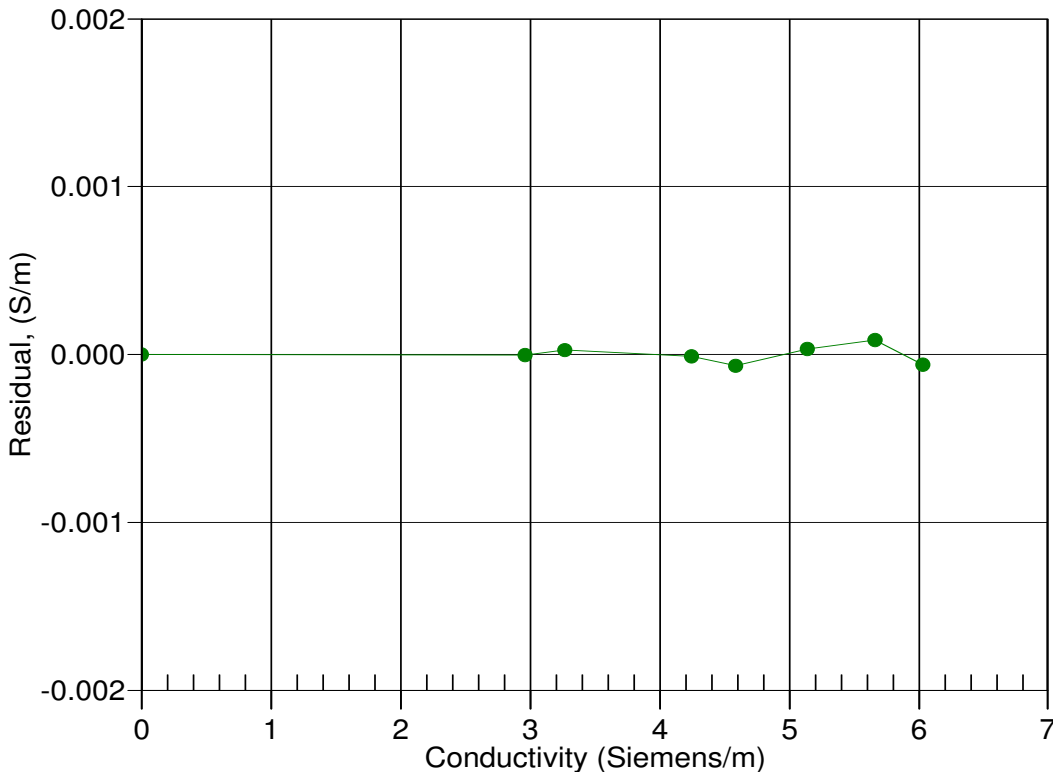
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



06-Nov-07 1.0000000