

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357  
CALIBRATION DATE: 27-Aug-98

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

## GHIJ COEFFICIENTS

g = -4.05025025e+000  
h = 4.73635550e-001  
i = -4.93638006e-005  
j = 3.20968438e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.20963497e-005  
b = 4.73561553e-001  
c = -4.05052282e+000  
d = -9.11999989e-005  
m = 4.1  
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)
0.0000	0.0000	0.00000	2.92387	0.00000	0.00000
-1.4091	35.0933	2.78997	8.19809	2.79001	0.00004
1.1283	35.0955	3.00874	8.47287	3.00871	-0.00003
15.2486	35.0957	4.32677	9.96704	4.32673	-0.00004
18.6862	35.0947	4.67009	10.32009	4.67009	-0.00000
29.2291	35.0939	5.76710	11.37307	5.76719	0.00009
32.6689	35.0904	6.13664	11.70569	6.13658	-0.00006

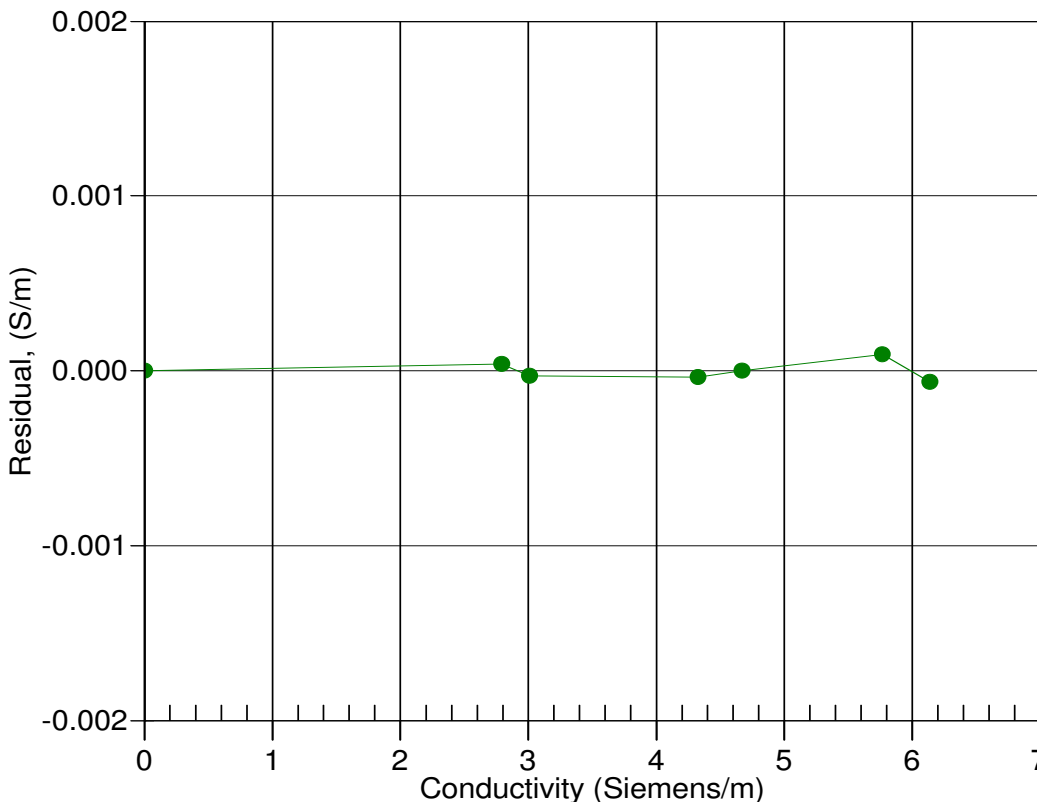
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



27-Aug-98 1.0000000