

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1346  
CALIBRATION DATE: 13-Mar-03s

SBE 4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -3.96136512e+00  
h = 5.21081353e-01  
i = 2.58262140e-04  
j = 2.22134895e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 1.08168493e-04  
b = 5.21575181e-01  
c = -3.96268528e+00  
d = -8.53587006e-05  
m = 3.6  
CPcor = -9.57e-08 (nominal)

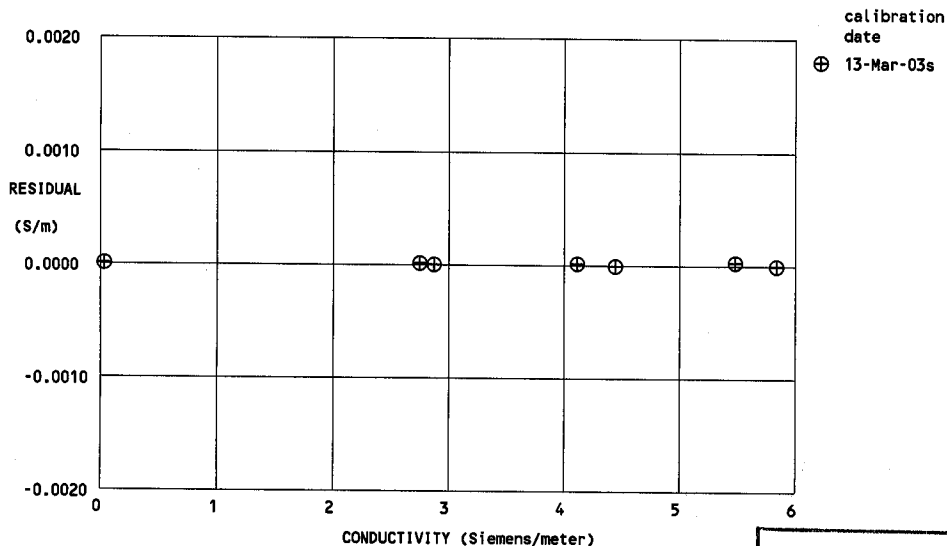
BATH TEMP (ITS-90 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75488	-0.00000	-0.00000
-0.5002	33.0974	2.71925	7.70776	2.71926	0.00001
0.9998	33.0979	2.84262	7.85822	2.84261	-0.00001
14.9998	33.0993	4.08255	9.23330	4.08256	0.00001
18.4998	33.0996	4.41442	9.56725	4.41441	-0.00001
28.9998	33.0981	5.45156	10.54161	5.45158	0.00002
32.4998	33.0941	5.80855	10.85627	5.80854	-0.00001

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 [deg C]; p = pressure [decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



**CALIBRATION  
AFTER  
MODIFICATIONS**