

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2980  
CALIBRATION DATE: 02-Feb-07

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

## GHIJ COEFFICIENTS

g = -9.80221651e+000  
h = 1.17683447e+000  
i = 7.60837249e-002  
j = -5.87807562e-003  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = -2.81719255e-035  
b = 1.44340639e+000  
c = -1.06201831e+001  
d = -1.16106398e-003  
m = 40.1  
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	2.70510	0.00006	0.00006
-1.0001	34.9419	2.81374	5.18065	2.81279	-0.00095
1.0376	34.9403	2.98882	5.29651	2.98904	0.00022
18.4999	34.9340	4.63228	6.28252	4.63539	0.00310
28.9999	34.9412	5.72046	6.86112	5.71398	-0.00647
32.4999	34.9411	6.09527	7.05868	6.09930	0.00403

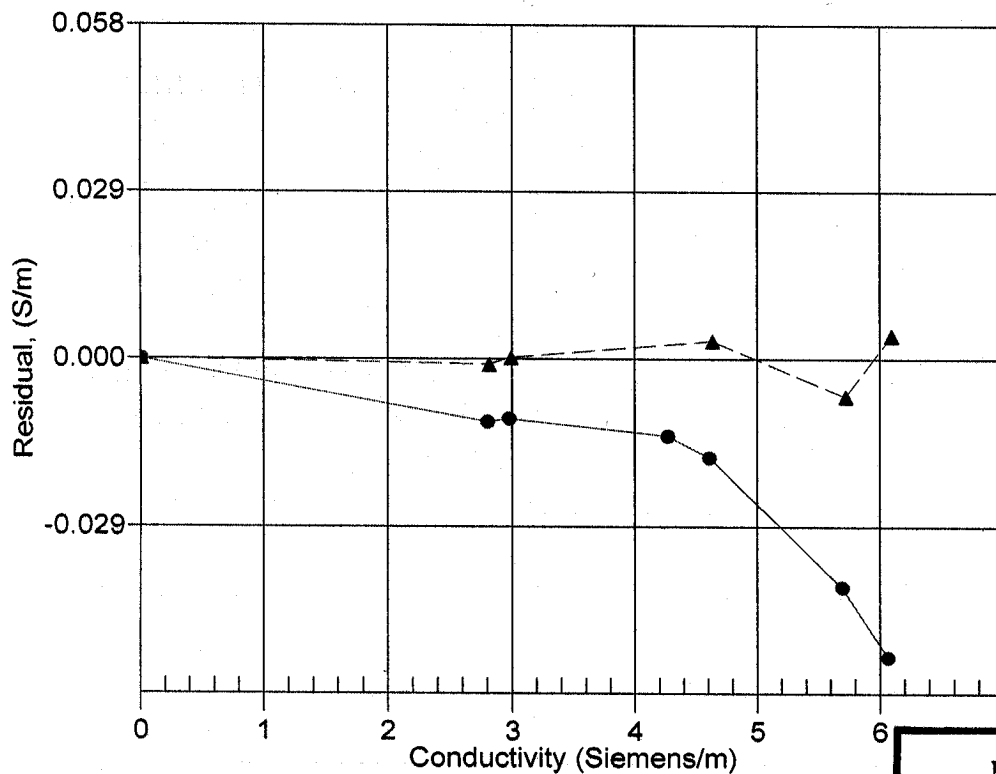
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



**POST CRUISE  
CALIBRATION**