

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2973  
CALIBRATION DATE: 02-Feb-07

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

## GHIJ COEFFICIENTS

g = -1.08234394e+001  
h = 1.47906851e+000  
i = -7.40056989e-003  
j = 6.27447166e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.79424040e-010  
b = 1.45501843e+000  
c = -1.07571520e+001  
d = -3.01164960e-005  
m = 10.2  
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	2.71941	0.00000	0.00000
-1.0001	34.9419	2.81374	5.17009	2.81375	0.00001
1.0376	34.9403	2.98882	5.28515	2.98880	-0.00002
18.4999	34.9340	4.63228	6.26218	4.63229	0.00001
28.9999	34.9412	5.72046	6.83145	5.72045	-0.00001
32.4999	34.9411	6.09527	7.01659	6.09528	0.00001

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

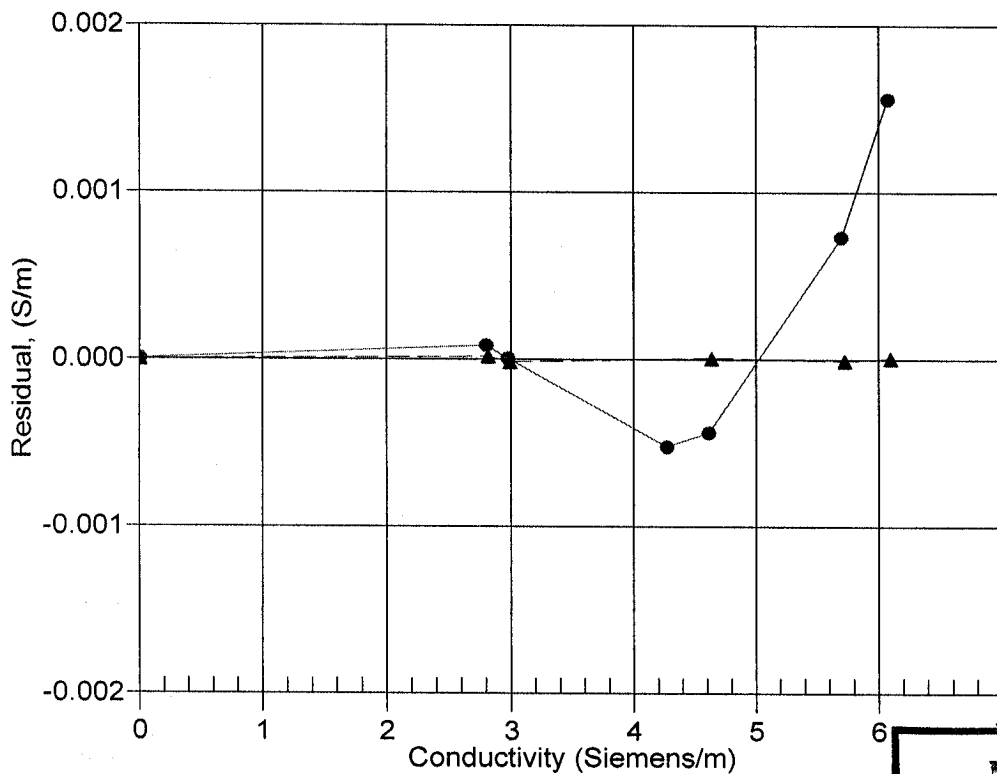
Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

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

Date, Slope Correction

● 17-Aug-06 0.9999238  
▲ 02-Feb-07 1.0000000



**POST CRUISE  
CALIBRATION**