

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2186  
CALIBRATION DATE: 31-Mar-06

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

## GHU COEFFICIENTS

g = -1.09607408e+001  
h = 1.45946377e+000  
i = -2.56655744e-003  
j = 2.35416062e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 5.42024657e-009  
b = 1.45159949e+000  
c = -1.09405601e+001  
d = -7.06637871e-005  
m = 8.2  
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	2.74542	0.00000	0.00000
-1.0000	34.8845	2.80956	5.18547	2.80954	-0.00002
1.0471	34.8848	2.98535	5.30095	2.98538	0.00003
15.0000	34.8852	4.27917	6.08331	4.27917	0.00000
18.5000	34.8847	4.62646	6.27664	4.62645	-0.00001
29.0000	34.8829	5.71200	6.84554	5.71201	0.00002
32.5000	34.8787	6.08564	7.03059	6.08563	-0.00001

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

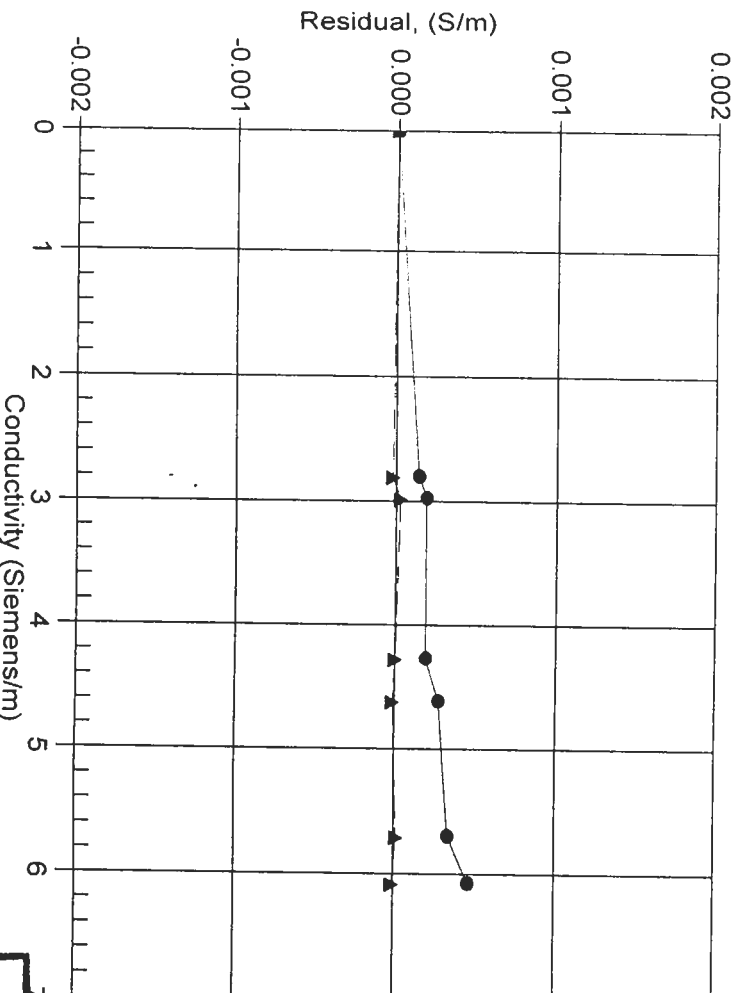
Conductivity =  $(at^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

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

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

Date, Slope Correction

● 04-Nov-04 0.9999384  
▲ 31-Mar-06 1.0000000



POST CRUISE  
CALIBRATION