

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2973  
CALIBRATION DATE: 06-Jul-07

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

## GHIJ COEFFICIENTS

g = -1.02626353e+001  
h = 1.38770370e+000  
i = -2.48119734e-004  
j = 8.28363126e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 4.80170053e-005  
b = 1.38707718e+000  
c = -1.02613302e+001  
d = -8.32548580e-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	2.71951	0.00000	0.00000
-1.0002	34.7437	2.79926	5.24859	2.79925	-0.00000
14.9998	34.7437	4.26363	6.17064	4.26363	0.00001
18.4998	34.7436	4.60974	6.36898	4.60974	-0.00000
28.9998	34.7432	5.69167	6.95233	5.69166	-0.00001
32.4999	34.7395	6.06410	7.14204	6.06410	0.00000

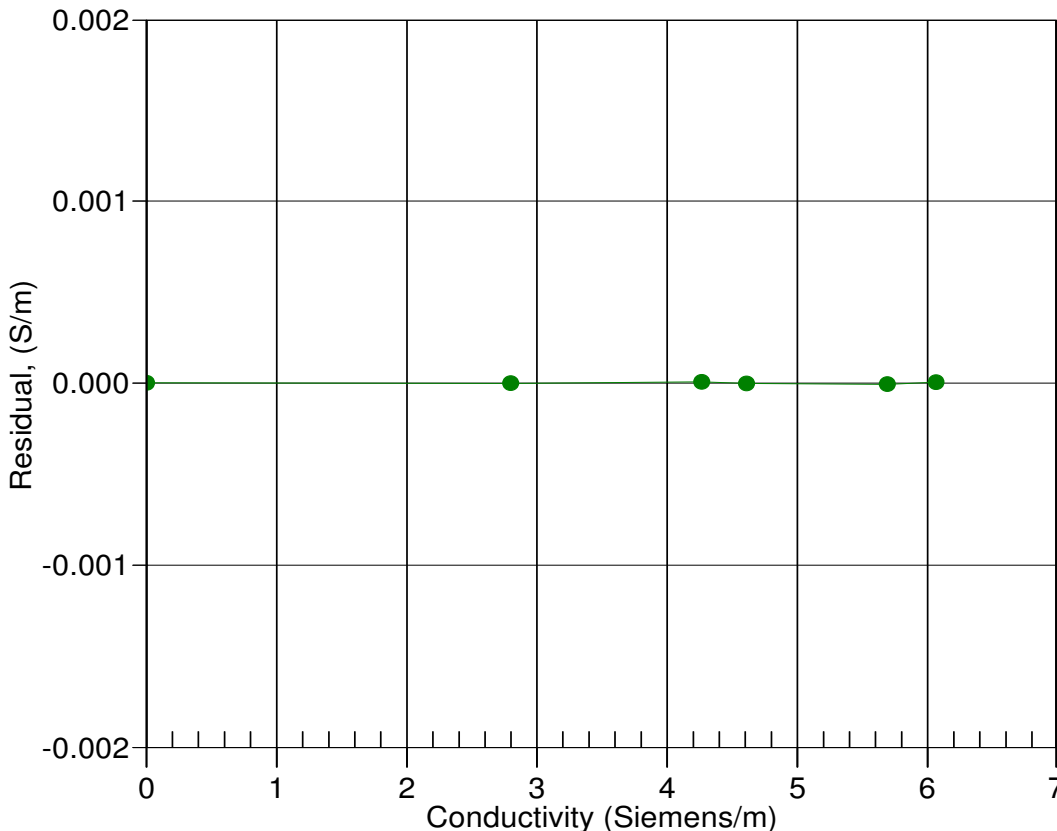
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



06-Jul-07 1.0000000