

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0497  
CALIBRATION DATE: 19-Sep-07

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

## GHIJ COEFFICIENTS

g = -4.26757436e+000  
h = 4.60445166e-001  
i = -2.59208421e-004  
j = 3.15793926e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.56904817e-006  
b = 4.59549673e-001  
c = -4.26431618e+000  
d = -8.16694075e-005  
m = 4.6  
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	3.04604	0.00000	0.00000
-1.0002	34.9324	2.81304	8.38776	2.81302	-0.00001
0.9998	34.9324	2.98492	8.60688	2.98494	0.00002
14.9998	34.9342	4.28452	10.10888	4.28450	-0.00002
18.4998	34.9339	4.63226	10.47379	4.63228	0.00002
28.9998	34.9321	5.71912	11.53853	5.71912	0.00000
32.4998	34.9261	6.09294	11.88221	6.09294	-0.00000

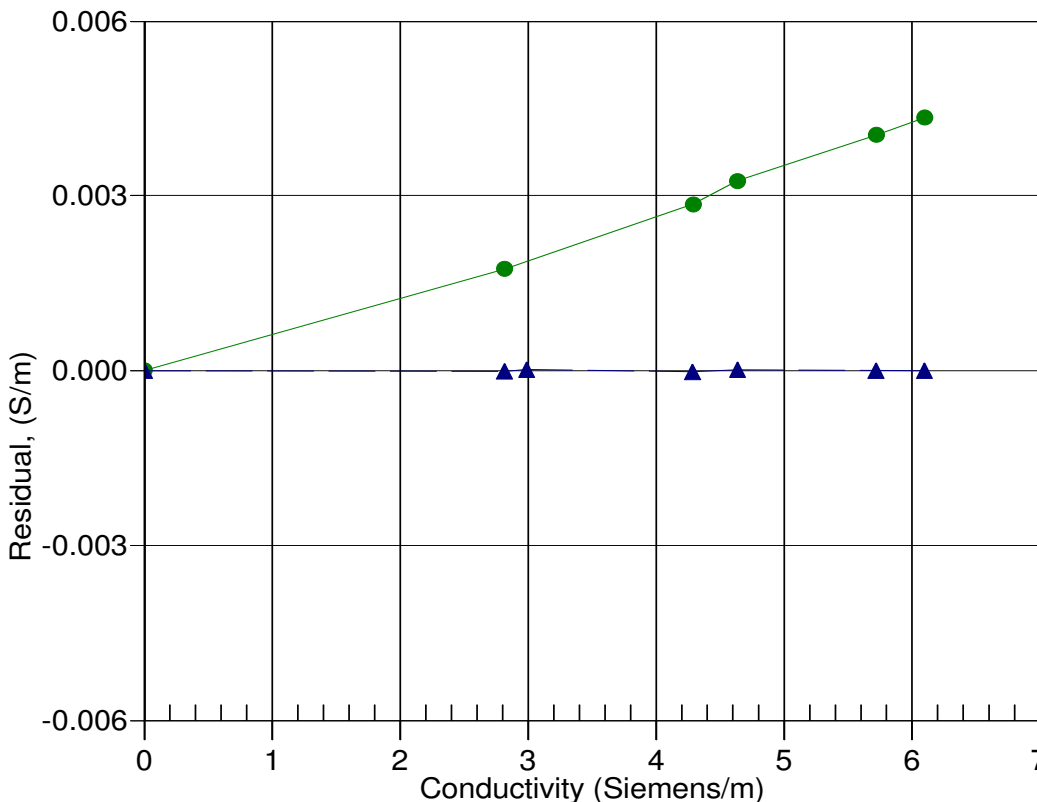
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 17-Nov-06 0.9993061  
▲ 19-Sep-07 1.0000000