

# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 2489  
CALIBRATION DATE: 16-Feb-11

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

## GHIJ COEFFICIENTS

g = -1.03233538e+001  
h = 1.61371710e+000  
i = -1.81023808e-003  
j = 2.41833019e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.56558510e-006  
b = 1.60942132e+000  
c = -1.03158457e+001  
d = -8.56468310e-005  
m = 5.5  
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	2.53166	0.00000	0.00000
-1.0000	34.9798	2.81651	4.88836	2.81649	-0.00003
1.0000	34.9793	2.98857	4.99638	2.98860	0.00003
15.0000	34.9796	4.28952	5.74714	4.28951	-0.00000
18.5000	34.9790	4.63761	5.93180	4.63760	-0.00002
29.0001	34.9758	5.72550	6.47473	5.72553	0.00003
32.5000	34.9643	6.09887	6.65070	6.09885	-0.00002

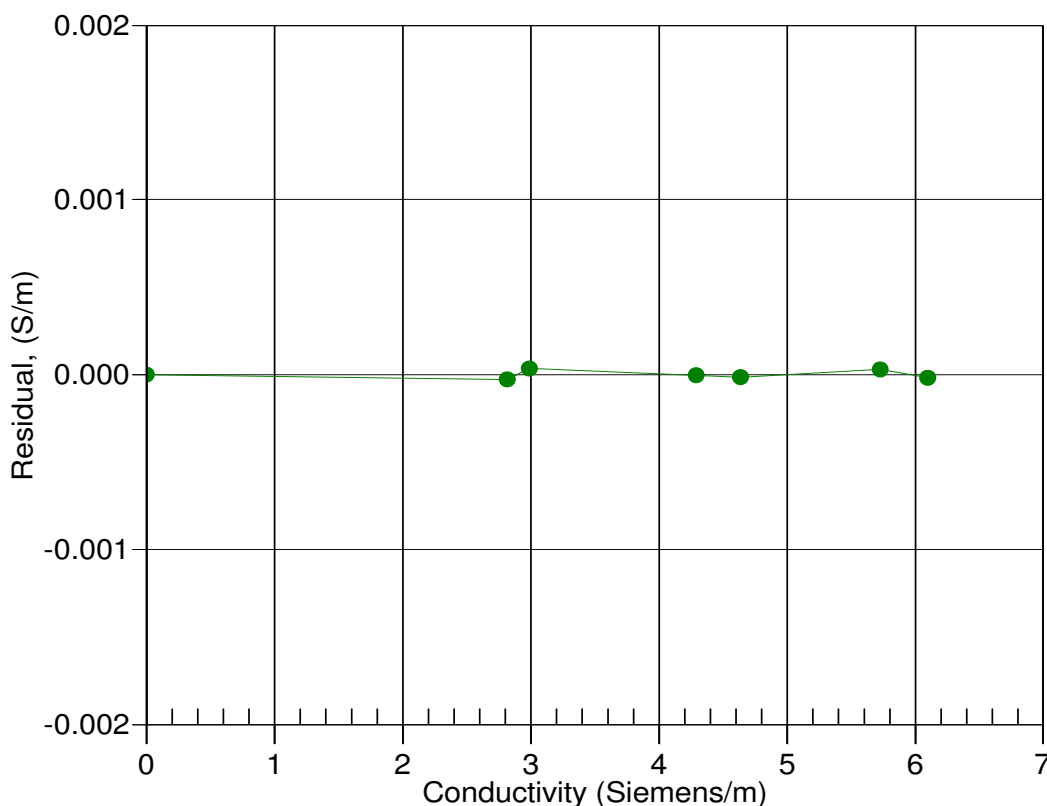
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



16-Feb-11 1.0000000