

# 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: 1374  
CALIBRATION DATE: 04-Jun-10

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

## GHIJ COEFFICIENTS

g = -4.08282432e+000  
h = 4.98299734e-001  
i = -7.59049572e-005  
j = 3.19586510e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.09819469e-005  
b = 4.98075946e-001  
c = -4.08217859e+000  
d = -8.38500910e-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	2.86230	0.00000	0.00000
-1.0000	34.7656	2.80087	8.01347	2.80086	-0.00001
0.9999	34.7654	2.97202	8.22367	2.97204	0.00002
14.9999	34.7653	4.26601	9.66367	4.26598	-0.00003
18.4999	34.7642	4.61219	10.01330	4.61221	0.00001
29.0000	34.7627	5.69453	11.03350	5.69455	0.00003
32.5000	34.7575	6.06690	11.36276	6.06688	-0.00002

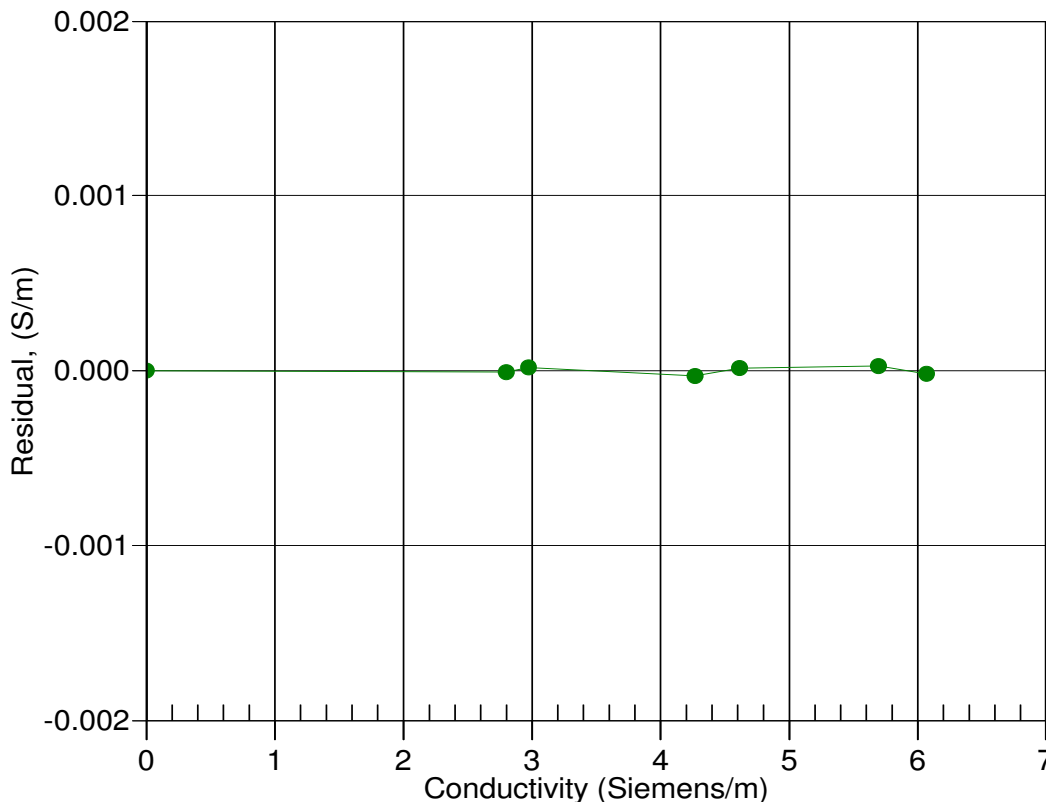
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



04-Jun-10 1.0000000