

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 0497  
CALIBRATION DATE: 27-Jan-09

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

## GHIJ COEFFICIENTS

g = -4.27300322e+000  
h = 4.61302048e-001  
i = -3.83646716e-004  
j = 3.68037465e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.17025814e-006  
b = 4.59916606e-001  
c = -4.26799224e+000  
d = -8.41697582e-005  
m = 5.0  
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	3.04624	0.00000	0.00000
-1.0000	34.7867	2.80241	8.37313	2.80243	0.00002
1.0788	34.7871	2.98053	8.60039	2.98052	-0.00001
15.0000	34.7869	4.26839	10.09073	4.26833	-0.00005
18.4999	34.7850	4.61465	10.45479	4.61471	0.00005
29.0000	34.7828	5.69745	11.51735	5.69745	0.00000
32.4999	34.7776	6.06999	11.86042	6.06999	-0.00001

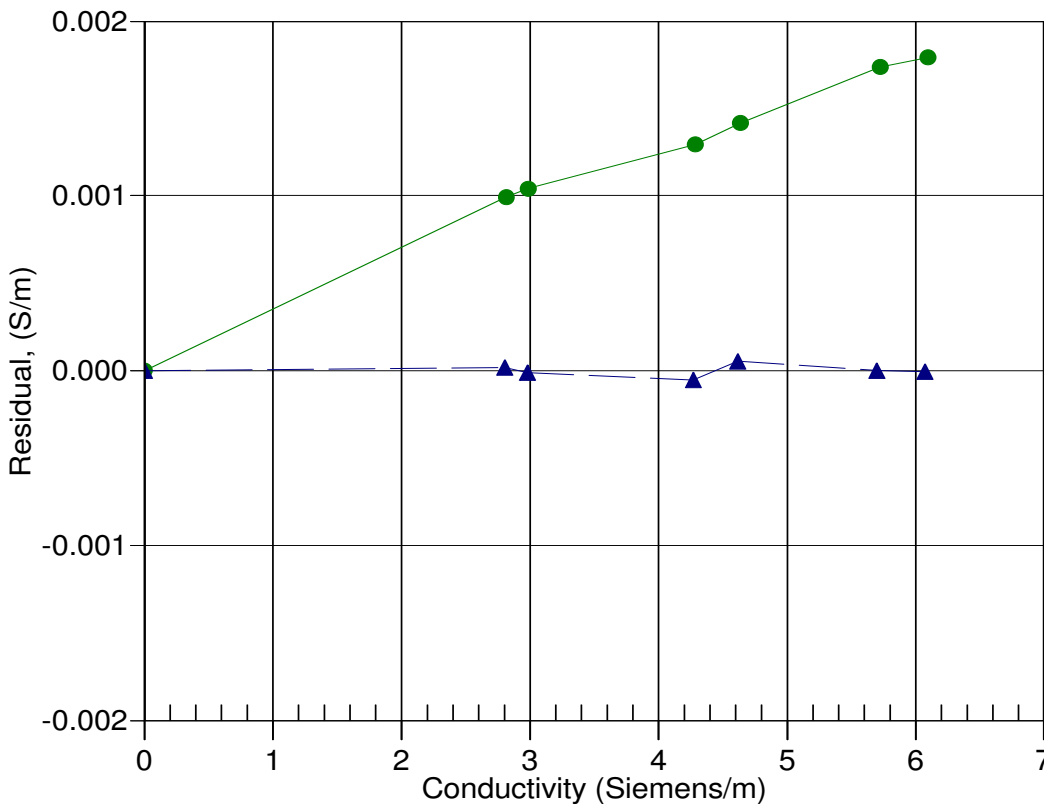
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 11-Oct-07 0.9996936  
▲ 27-Jan-09 1.0000000