

# 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: 2980  
CALIBRATION DATE: 17-Mar-09

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

## GHIJ COEFFICIENTS

g = -1.00406373e+001  
h = 1.37194507e+000  
i = -1.35099693e-004  
j = 7.95774772e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 6.60968817e-005  
b = 1.37158486e+000  
c = -1.00399515e+001  
d = -8.35696210e-005  
m = 4.0  
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	2.70507	0.00000	0.00000
-1.0000	34.8367	2.80607	5.26701	2.80607	0.00000
1.0000	34.8370	2.97757	5.38410	2.97757	0.00000
14.9999	34.8380	4.27398	6.19764	4.27399	0.00000
18.4999	34.8384	4.62097	6.39772	4.62094	-0.00003
29.0000	34.8368	5.70530	6.98597	5.70535	0.00006
32.5000	34.8323	6.07846	7.17711	6.07843	-0.00004

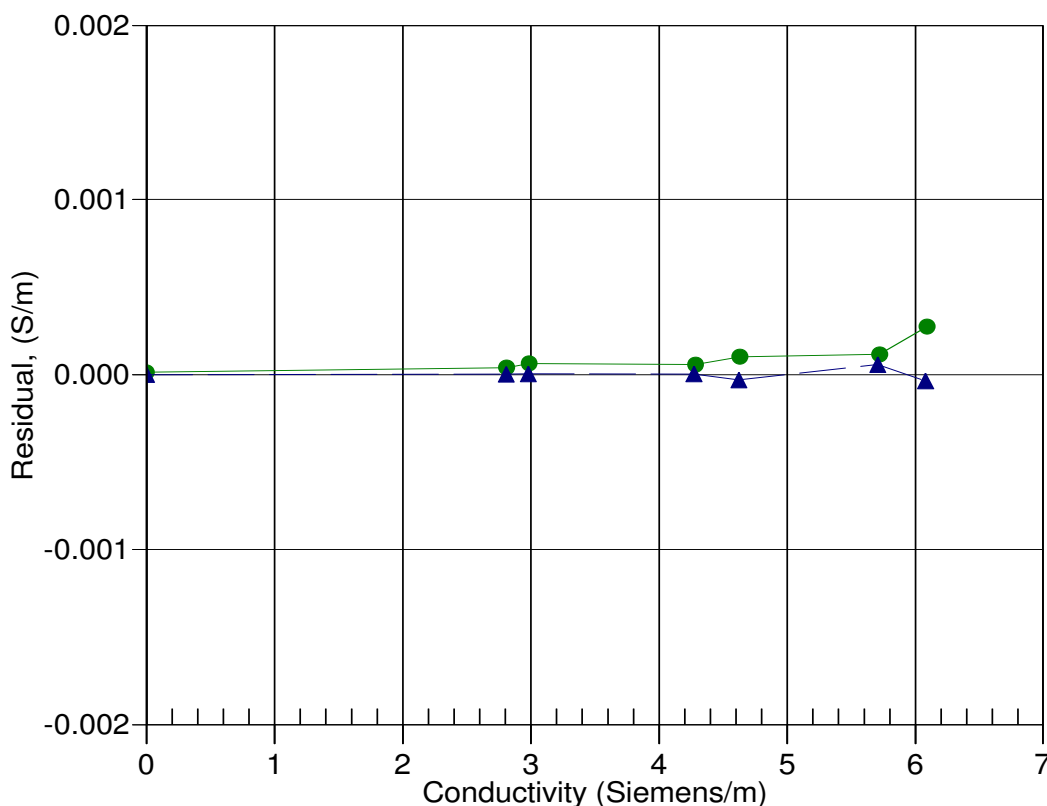
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 27-Feb-08 0.9999735  
▲ 17-Mar-09 1.0000000