

# 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: 0722  
CALIBRATION DATE: 11-Dec-96

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

## GHIJ COEFFICIENTS

g = -3.84465558e+000  
h = 4.15292772e-001  
i = 2.33720913e-005  
j = 1.93244653e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.68217019e-005  
b = 4.15324273e-001  
c = -3.84465911e+000  
d = -8.21980094e-005  
m = 3.9  
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	3.04173	0.00000	0.00000
-1.3370	35.4115	2.81907	8.76507	2.81908	0.00000
1.0973	35.4121	3.03054	9.04867	3.03056	0.00002
15.2151	35.4095	4.35798	10.65508	4.35790	-0.00008
18.6526	35.4030	4.70323	11.03408	4.70327	0.00004
29.1955	35.3877	5.80628	12.16406	5.80635	0.00008
32.6352	35.3839	6.17839	12.52157	6.17834	-0.00006

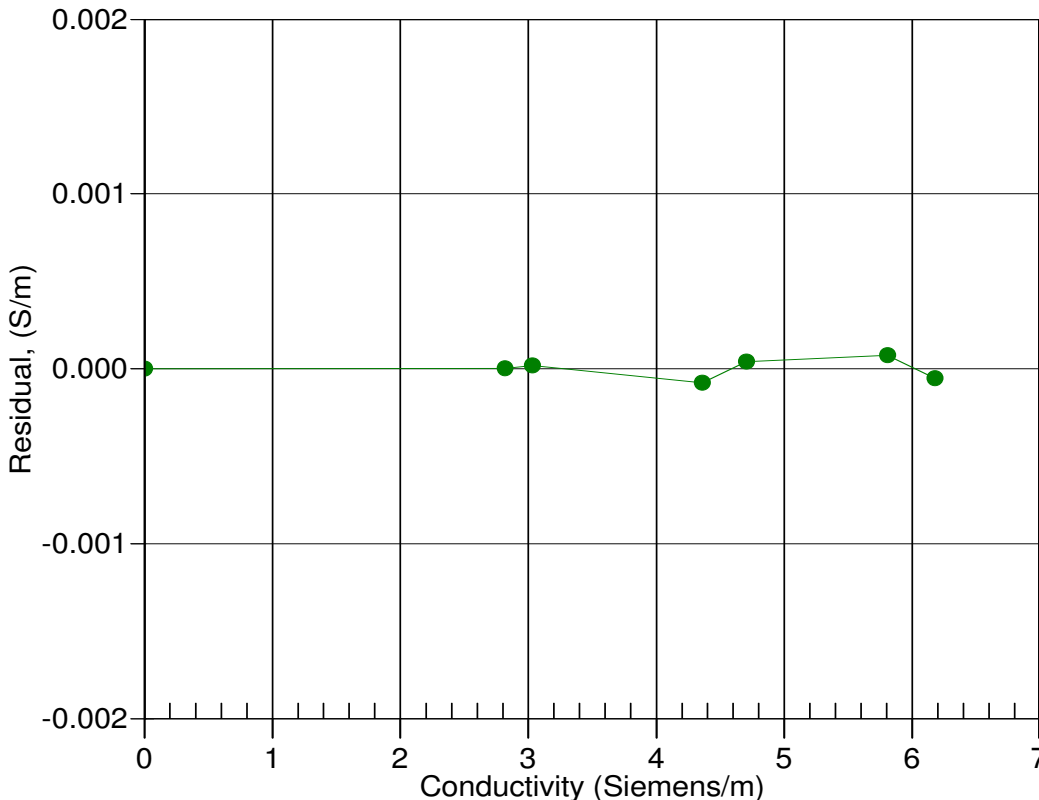
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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-Dec-96 1.0000000