

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA  
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1374  
CALIBRATION DATE: 20-Dec-01s

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

## GHIJ COEFFICIENTS

g = -4.28173429e+00  
h = 5.23145066e-01  
i = -3.23057285e-04  
j = 4.40495452e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 5.33682892e-06  
b = 5.22150110e-01  
c = -4.27889642e+00  
d = -8.81681310e-05  
m = 4.6  
CPcor = -9.57e-08 (nominal)

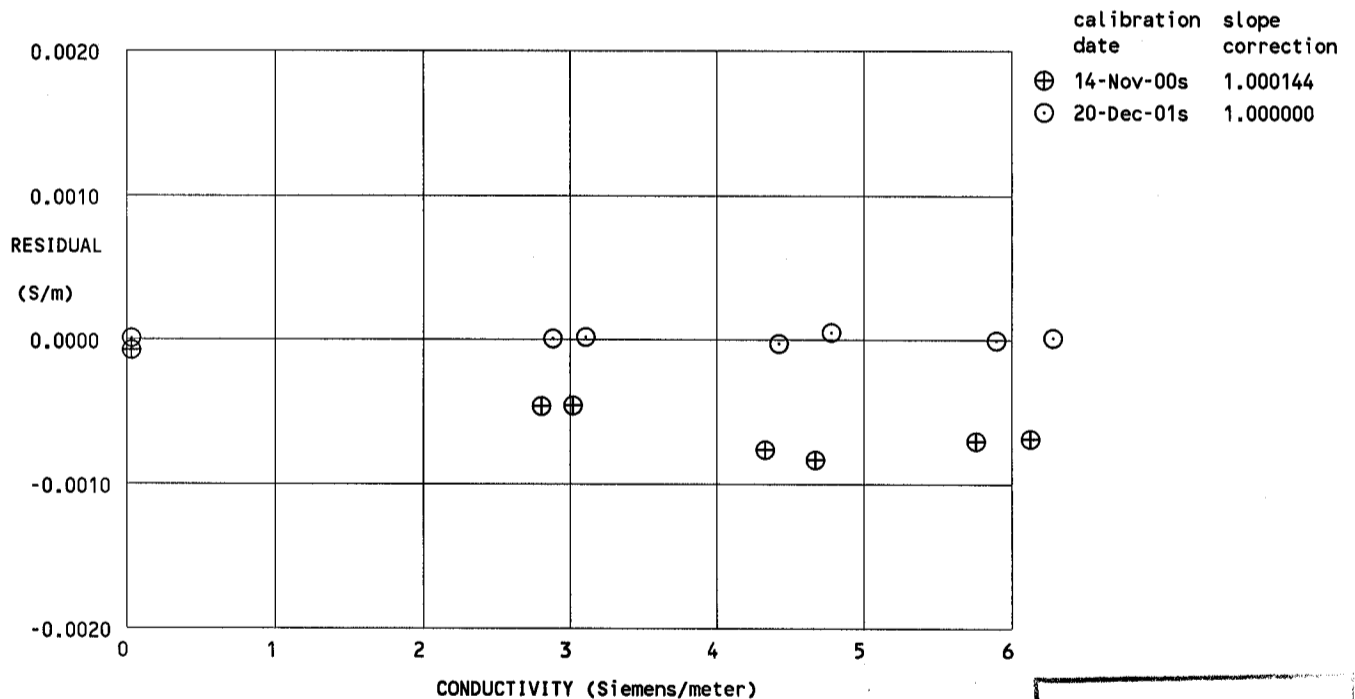
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86242	-0.00000	-0.00000
-1.4000	35.9503	2.85248	7.91742	2.85248	-0.00000
1.1560	35.9505	3.07736	8.18352	3.07737	0.00001
15.0000	35.9515	4.39546	9.59374	4.39542	-0.00004
18.5000	35.9509	4.75183	9.94019	4.75187	0.00004
29.0000	35.9489	5.86574	10.95078	5.86573	-0.00001
32.5000	35.9430	6.24890	11.27696	6.24891	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 [deg C]; p = pressure [decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



POST CRUISE  
CALIBRATION