

# 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 = 1387  
CALIBRATION DATE: 18-Nov-99s

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

## GHIJ COEFFICIENTS

g = -4.05002511e+00  
h = 4.60877895e-01  
i = -9.22375580e-06  
j = 2.38097135e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 2.29660291e-05  
b = 4.60862537e-01  
c = -4.05014140e+00  
d = -8.65971152e-05  
m = 4.0  
CPcor = -9.57e-08 (nominal)

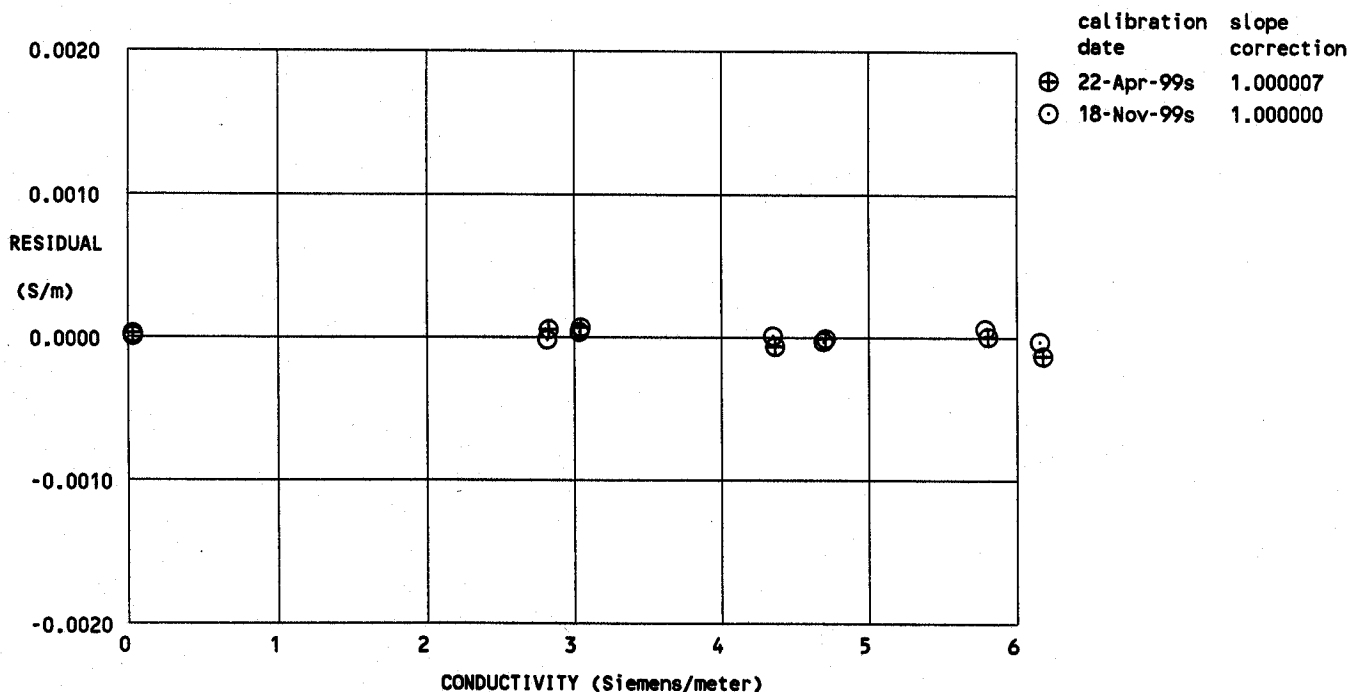
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.96381	-0.00000	-0.00000
-1.3926	35.0236	2.78637	8.30724	2.78635	-0.00002
1.1473	35.0234	3.00478	8.58588	3.00481	0.00003
15.2656	35.0230	4.32008	10.10006	4.32008	0.00000
18.7035	35.0213	4.66267	10.45788	4.66264	-0.00003
29.2468	35.0120	5.75629	11.52469	5.75635	0.00006
32.6861	35.0034	6.12417	11.86138	6.12414	-0.00003

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



2000013  
CALIBRATION