

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1387
CALIBRATION DATE: 16-Nov-00s

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

GHJ COEFFICIENTS

g = -4.05574359e+00
h = 4.61964770e-01
i = -1.73899612e-04
j = 3.07070285e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 9.50076364e-06
b = 4.61370749e-01
c = -4.05349220e+00
d = -7.84773911e-05
m = -4.3
CPcor = -9.57e-08 (nominal)

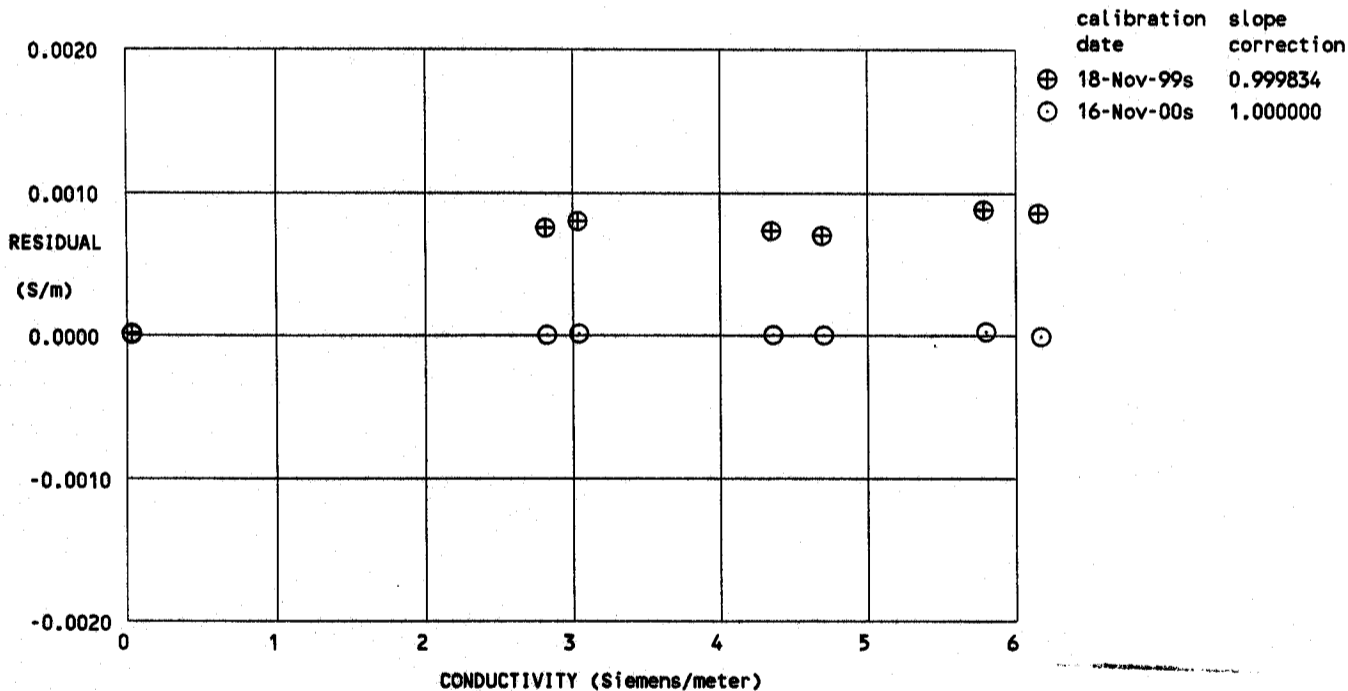
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.96378	-0.00000	-0.00000
-1.3704	35.0963	2.79350	8.31551	2.79350	-0.00000
1.1687	35.0982	3.01246	8.59452	3.01247	0.00001
15.2898	35.0986	4.33080	10.11068	4.33080	-0.00000
18.7283	35.0976	4.67424	10.46903	4.67423	-0.00001
29.2717	35.0915	5.77055	11.53713	5.77057	0.00002
32.7089	35.0815	6.13874	11.87373	6.13873	-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]; δ = CTcor; ϵ = CPcor;

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



POST CRUISE
CALIBRATION