

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1346
CALIBRATION DATE: 18-Nov-99s

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

GHIJ COEFFICIENTS

g = -4.16755121e+00
h = 5.48628447e-01
i = 1.36786722e-04
j = 2.45113693e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 7.18757787e-05
b = 5.48828798e-01
c = -4.16778064e+00
d = -8.06010941e-05
m = 3.7
CPcor = -9.57e-08 (nominal)

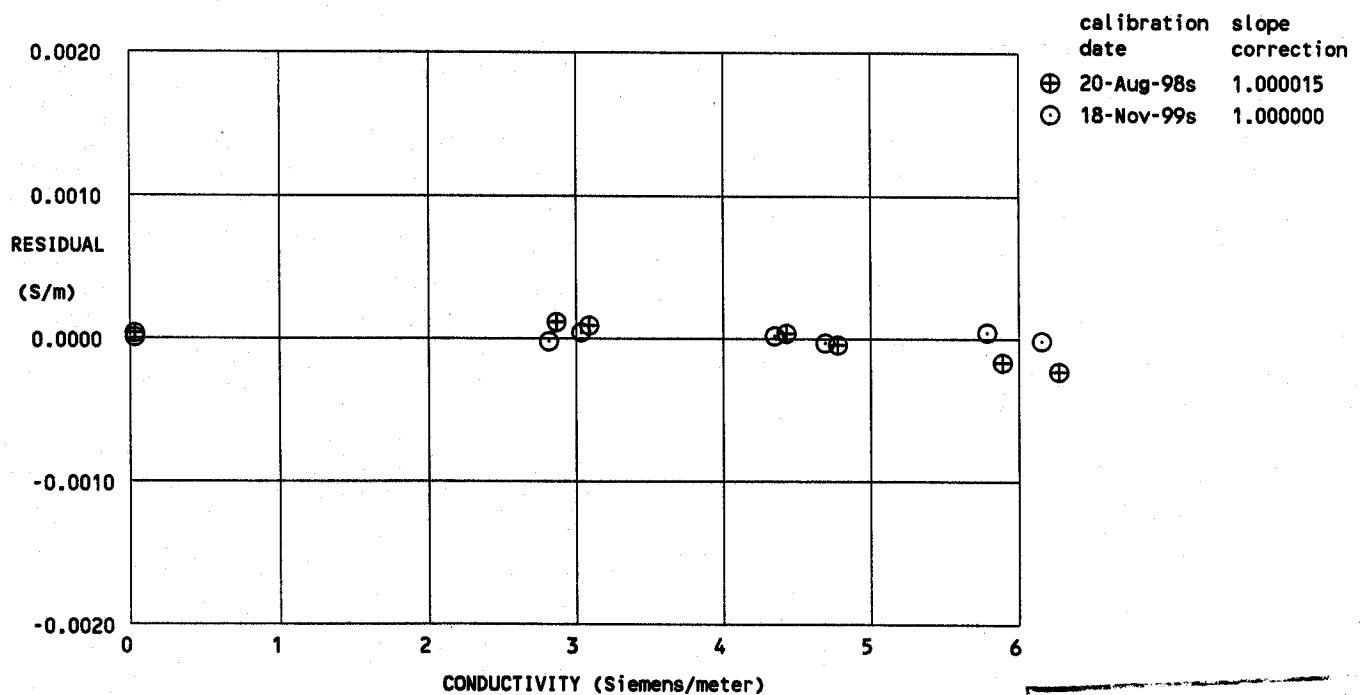
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75473	0.00000	0.00000
-1.3926	35.0236	2.78637	7.62378	2.78634	-0.00003
1.1473	35.0234	3.00478	7.87858	3.00481	0.00003
15.2656	35.0230	4.32008	9.26372	4.32009	0.00001
18.7035	35.0213	4.66267	9.59117	4.66263	-0.00004
29.2468	35.0120	5.75629	10.56773	5.75633	0.00004
32.6861	35.0034	6.12417	10.87607	6.12415	-0.00002

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