SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1387
CALIBRATION DATE: 25-Sep-03

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

GHIJ COEFFICIENTS

g = -4.05130427e+000
h = 4.61108747e-001
i = -3.71456355e-005
j = 2.51536230e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.29766070e-005
b = 4.60938770e-001
c = -4.05047303e+000
d = -7.84198426e-005
m = 4.0
CPcor = -9.5700e-008 (nominal)

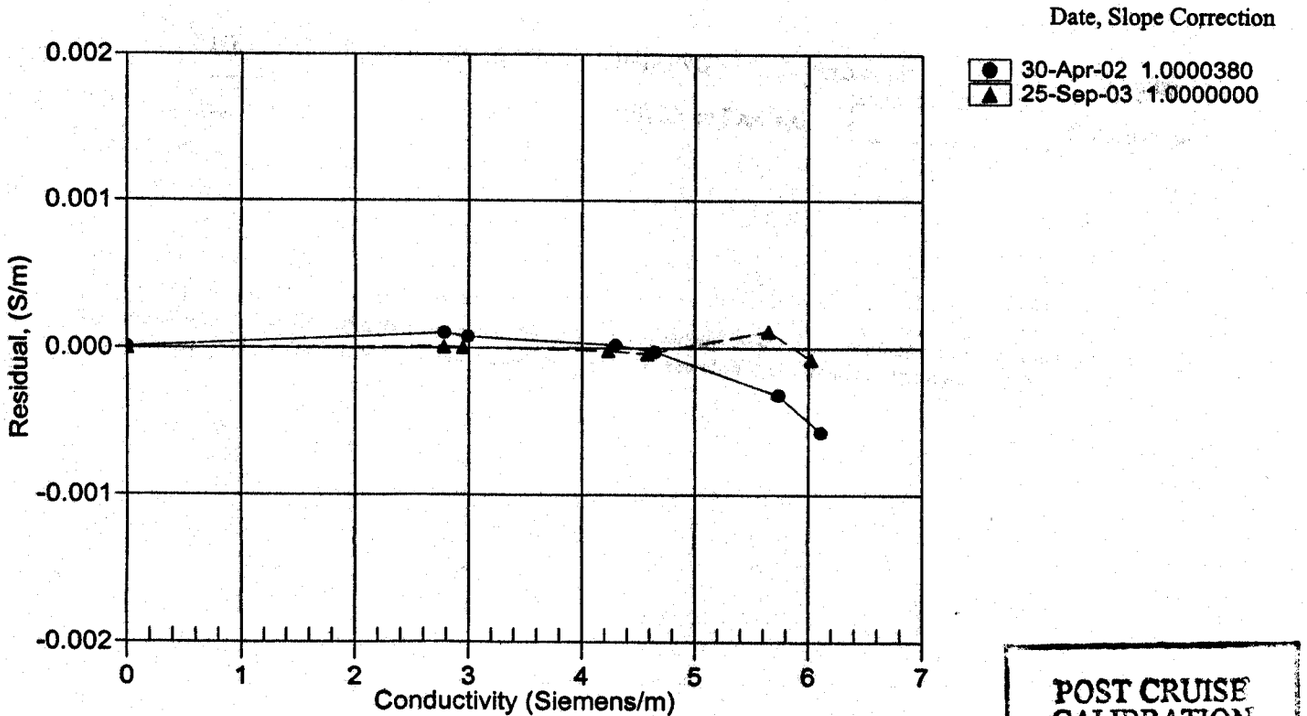
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.96376	-0.00000	-0.00000
-1.0004	34.4494	2.77772	8.29541	2.77774	0.00001
0.9996	34.4499	2.94758	8.51312	2.94758	0.00000
14.9996	34.4515	4.23153	10.00464	4.23151	-0.00002
18.4996	34.4521	4.57520	10.36689	4.57516	-0.00004
28.9996	34.4510	5.64914	11.42380	5.64925	0.00012
32.4996	34.4471	6.01880	11.76491	6.01873	-0.00008

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]; δ = CTcor; ϵ = CPcor;

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



POST CRUISE CALIBRATION