

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1203
 CALIBRATION DATE: 08-Sep-99s

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

GHIJ COEFFICIENTS

g = -4.05443818e+00
 h = 4.94119055e-01
 i = -4.22947007e-05
 j = 2.84700004e-05
 CPcor = -9.57e-08 (nominal)
 CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 2.59320379e-05
 b = 4.93929841e-01
 c = -4.05355522e+00
 d = -7.81460951e-05
 m = 4.0
 CPcor = -9.57e-08 (nominal)

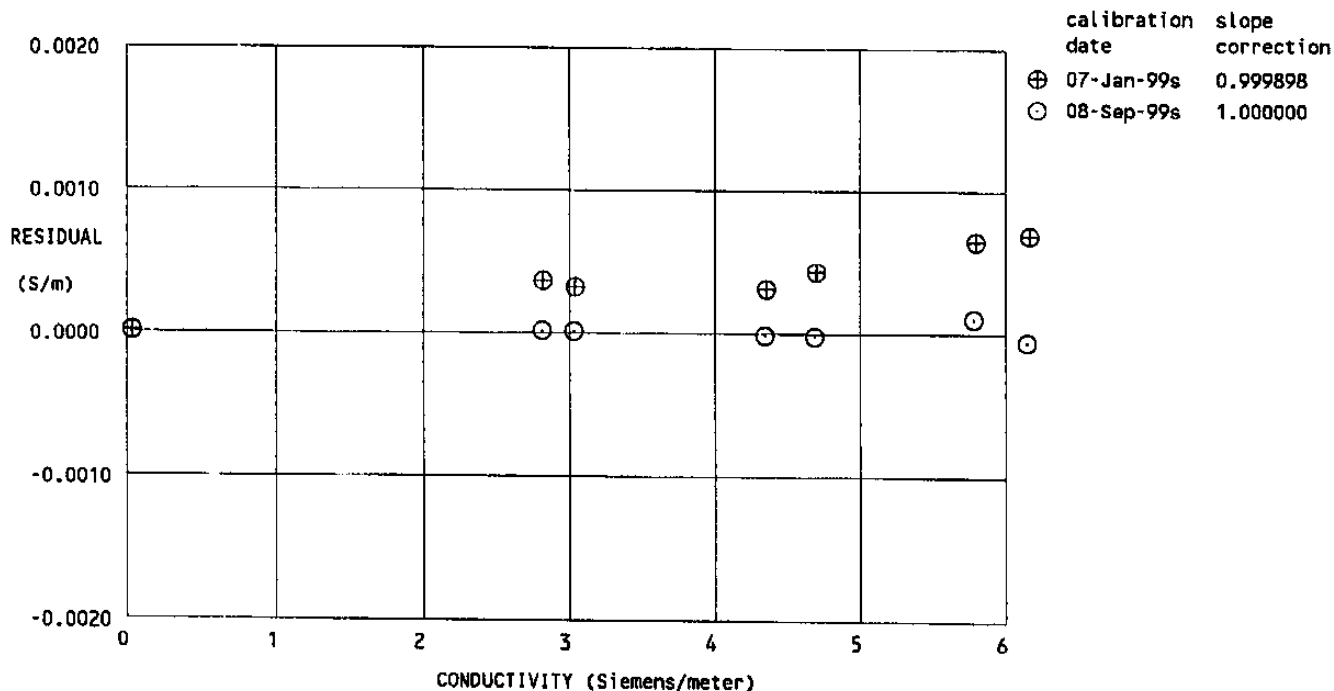
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86418	-0.00000	-0.00000
-1.3929	34.9774	2.78301	8.02083	2.78302	0.00001
1.1460	34.9784	3.00118	8.28977	3.00118	0.00000
15.2650	34.9732	4.31453	9.75117	4.31451	-0.00002
18.7029	34.9713	4.65667	10.09662	4.65664	-0.00003
29.2458	34.9699	5.75005	11.12756	5.75015	0.00010
32.6856	34.9660	6.11831	11.45325	6.11825	-0.00006

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**