

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1347
CALIBRATION DATE: 30-Apr-02s

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

GHIJ COEFFICIENTS

g = -3.70908120e+00
h = 4.87862537e-01
i = -1.32034381e-04
j = 3.69204908e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 1.71752328e-05
b = 4.87490342e-01
c = -3.70811918e+00
d = -8.52585495e-05
m = 4.2
CPcor = -9.57e-08 (nominal)

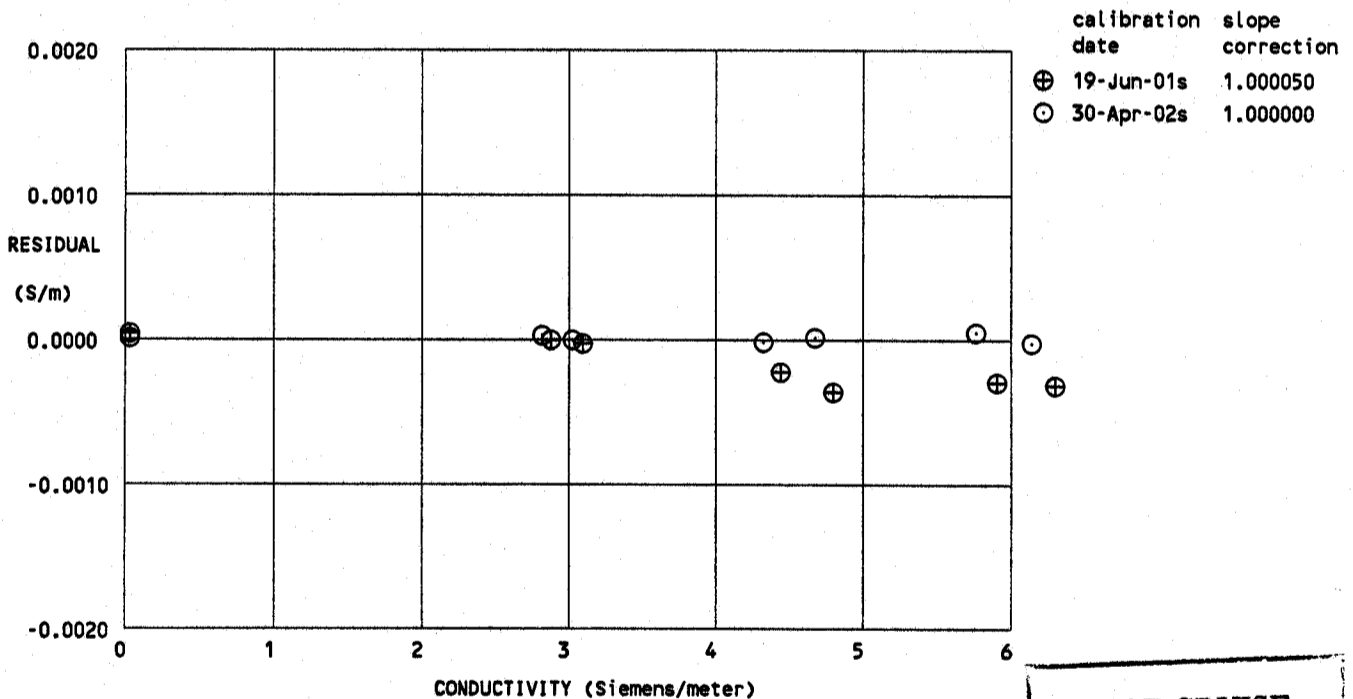
BATH TEMP (ITS-90 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75754	-0.00000	-0.00000
-1.4008	35.0495	2.78752	8.03525	2.78754	0.00002
0.9992	35.0499	2.99395	8.29264	2.99394	-0.00001
14.9992	35.0502	4.29718	9.75978	4.29716	-0.00002
18.4992	35.0498	4.64590	10.11563	4.64591	0.00001
28.9992	35.0470	5.73574	11.15294	5.73578	0.00004
32.4992	35.0407	6.11059	11.48739	6.11056	-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]; δ = CTcor; ϵ = CPcor;

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



POST CRUISE
CALIBRATION