

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1346
CALIBRATION DATE: 30-Apr-02s

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

GHIJ COEFFICIENTS

g = -4.07370334e+00
h = 5.36482192e-01
i = 2.34321907e-07
j = 3.46110387e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 3.40708781e-05
b = 5.36525337e-01
c = -4.07414569e+00
d = -8.89715196e-05
m = 4.0
CPcor = -9.57e-08 (nominal)

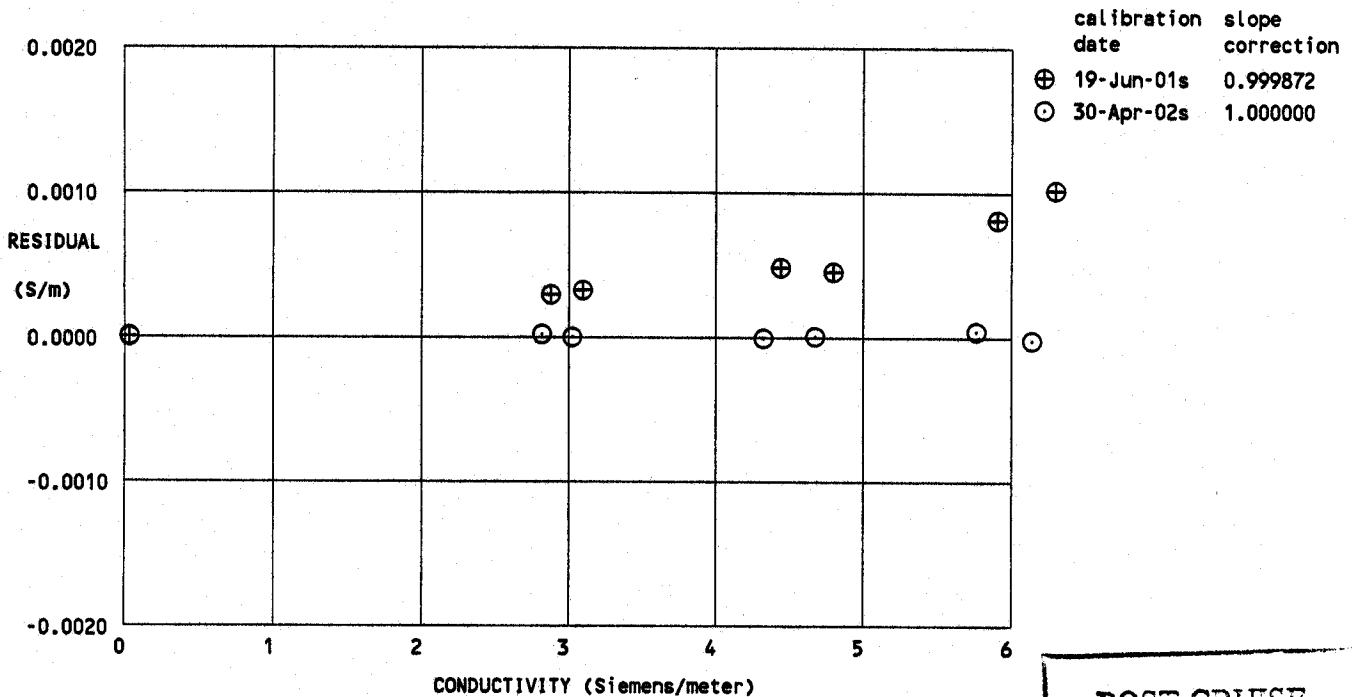
BATH TEMP (ITS-90 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75493	-0.00000	-0.00000
-1.4008	35.0495	2.78752	7.70229	2.78753	0.00001
0.9992	35.0499	2.99395	7.94626	2.99394	-0.00001
14.9992	35.0502	4.29718	9.33837	4.29717	-0.00001
18.4992	35.0498	4.64590	9.67636	4.64590	-0.00000
28.9992	35.0470	5.73574	10.66225	5.73577	0.00003
32.4992	35.0407	6.11059	10.98033	6.11057	-0.00002

Conductivity = $(g + hf^2 + if^3 + jf^4) / [10(1 + \delta t + \epsilon p)]$ Siemens/meter

Conductivity = $(af^m + bf^{2m} + c + dt) / [10(1 + \epsilon p)]$ 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