

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 14-Jul-05

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

GHIJ COEFFICIENTS

g = -3.96321743e+000
h = 5.21402111e-001
i = 2.14729160e-004
j = 2.67507443e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.65278382e-005
b = 5.21887239e-001
c = -3.96470575e+000
d = -8.89162160e-005
m = 3.7
CPcor = -9.5700e-008 (nominal)

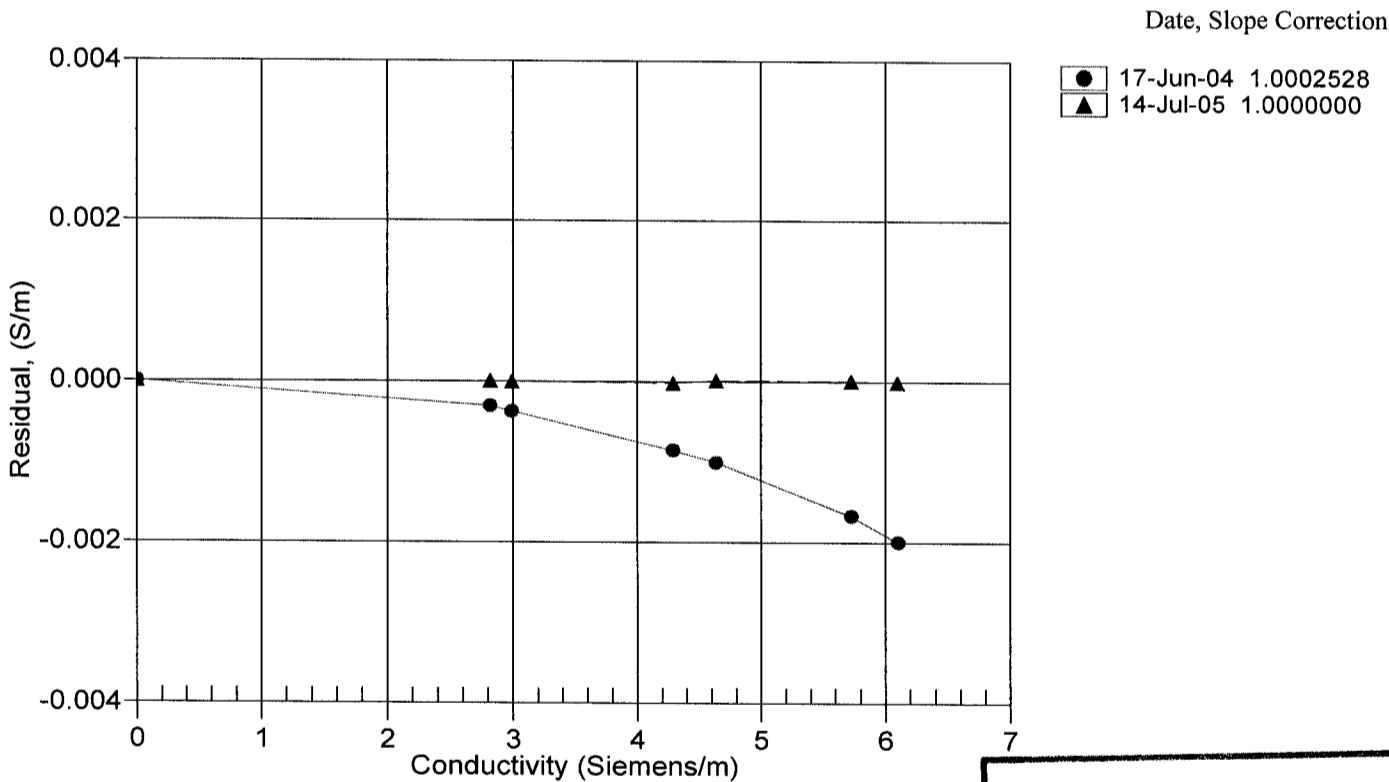
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75491	0.00000	0.00000
-1.0000	34.9555	2.81474	7.82277	2.81475	0.00000
1.0000	34.9558	2.98675	8.02857	2.98675	-0.00000
15.0000	34.9559	4.28692	9.43772	4.28690	-0.00002
18.5000	34.9550	4.63478	9.77971	4.63479	0.00001
29.0000	34.9514	5.72195	10.77708	5.72196	0.00001
32.5000	34.9437	6.09569	11.09871	6.09568	-0.00001

Conductivity = (g + hf² + if³ + jf⁴) / 10(1 + δt + εp) Siemens/meter

Conductivity = (af^m + bf² + c + dt) / [10 (1 + εp) 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