

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1387  
CALIBRATION DATE: 14-Jul-05

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

GHIJ COEFFICIENTS

g = -4.22300927e+000  
h = 4.80616430e-001  
i = -1.26487762e-005  
j = 2.50420337e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.39900670e-005  
b = 4.80584961e-001  
c = -4.22303674e+000  
d = -8.56900556e-005  
m = 4.0  
CPcor = -9.5700e-008 (nominal)

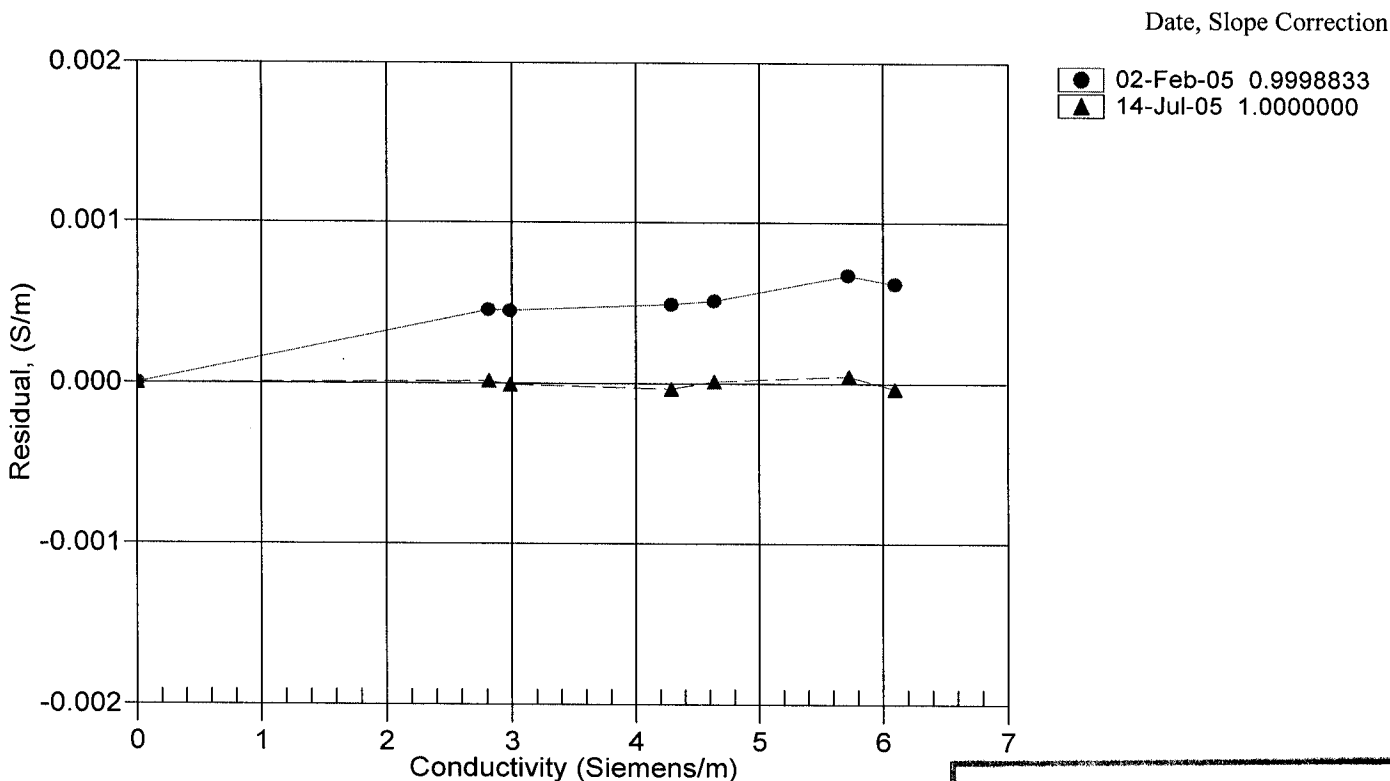
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.96366	0.00000	0.00000
-1.0000	34.9555	2.81474	8.19339	2.81476	0.00002
1.0000	34.9558	2.98675	8.40750	2.98674	-0.00001
15.0000	34.9559	4.28692	9.87504	4.28689	-0.00003
18.5000	34.9550	4.63478	10.23152	4.63479	0.00001
29.0000	34.9514	5.72195	11.27164	5.72199	0.00005
32.5000	34.9437	6.09569	11.60713	6.09565	-0.00003

Conductivity = (g + hf<sup>2</sup> + if<sup>3</sup> + jf<sup>4</sup>) / 10(1 + δt + εp) Siemens/meter

Conductivity = (af<sup>m</sup> + bf<sup>2</sup> + 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