

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1446
CALIBRATION DATE: 13-Apr-10

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

GHIJ COEFFICIENTS

g = -4.19067388e+000
h = 5.55783783e-001
i = 1.75976540e-004
j = 1.77408479e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.10271904e-005
b = 5.56078719e-001
c = -4.19134728e+000
d = -8.40332087e-005
m = 3.6
CPcor = -9.5700e-008 (nominal)

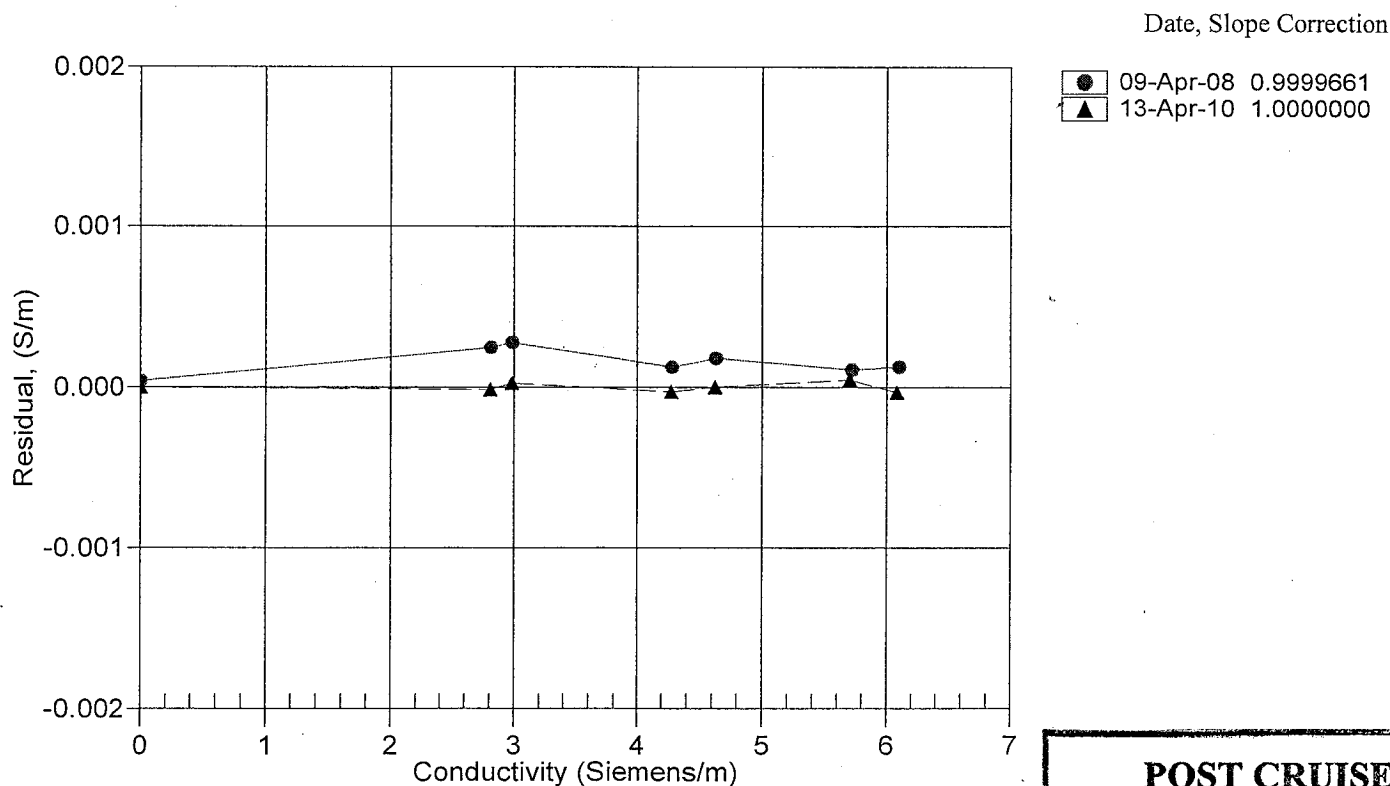
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.74440	0.00000	0.00000
-1.0001	34.8271	2.80536	7.60065	2.80534	-0.00001
0.9999	34.8267	2.97676	7.79949	2.97679	0.00003
14.9999	34.8268	4.27275	9.16258	4.27273	-0.00003
18.4999	34.8266	4.61958	9.49385	4.61958	0.00000
28.9999	34.8258	5.70369	10.46089	5.70374	0.00005
32.5000	34.8195	6.07648	10.77298	6.07645	-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[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

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



**POST CRUISE
CALIBRATION**