

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0864
CALIBRATION DATE: 13-Apr-10

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

GHIJ COEFFICIENTS

g = -4.13502391e+000
h = 5.95406684e-001
i = -6.82219193e-004
j = 6.99997404e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.43139598e-006
b = 5.93228299e-001
c = -4.12918360e+000
d = -8.85077459e-005
m = 5.2
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	2.63822	0.00000	0.00000
-1.0001	34.8271	2.80536	7.36024	2.80535	-0.00001
0.9999	34.8267	2.97676	7.55327	2.97678	0.00002
14.9999	34.8268	4.27275	8.87587	4.27271	-0.00005
18.4999	34.8266	4.61958	9.19710	4.61958	0.00000
28.9999	34.8258	5.70369	10.13423	5.70377	0.00008
32.5000	34.8195	6.07648	10.43640	6.07643	-0.00006

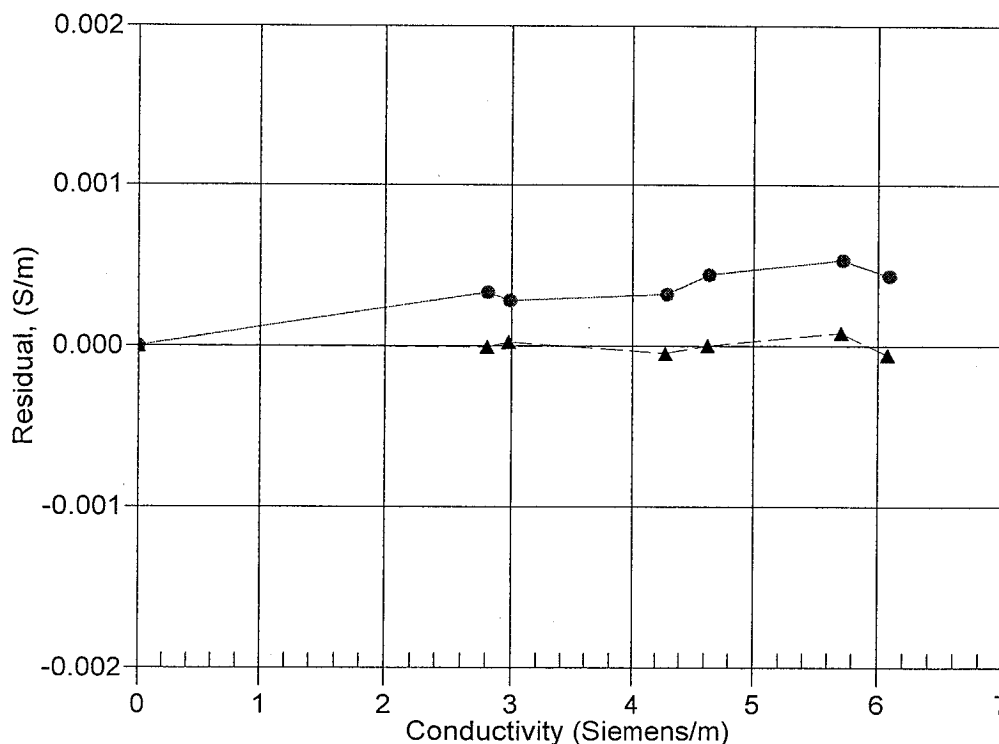
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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

Date, Slope Correction



● 08-Nov-07 0.9999138
▲ 13-Apr-10 1.0000000

**POST CRUISE
CALIBRATION**