

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1347
CALIBRATION DATE: 02-Feb-07

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

GHIJ COEFFICIENTS

g = -4.11544800e+000
h = 5.44104455e-001
i = -1.34998297e-003
j = 1.00489808e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.79408340e-008
b = 5.38901568e-001
c = -4.09791485e+000
d = -7.55710985e-005
m = 6.3
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	2.75773	0.00000	0.00000
-1.0001	34.9419	2.81374	7.73072	2.81377	0.00003
1.0376	34.9403	2.98882	7.93738	2.98879	-0.00003
18.4999	34.9340	4.63228	9.66089	4.63227	-0.00002
28.9999	34.9412	5.72046	10.64570	5.72050	0.00005
32.4999	34.9411	6.09527	10.96358	6.09524	-0.00003

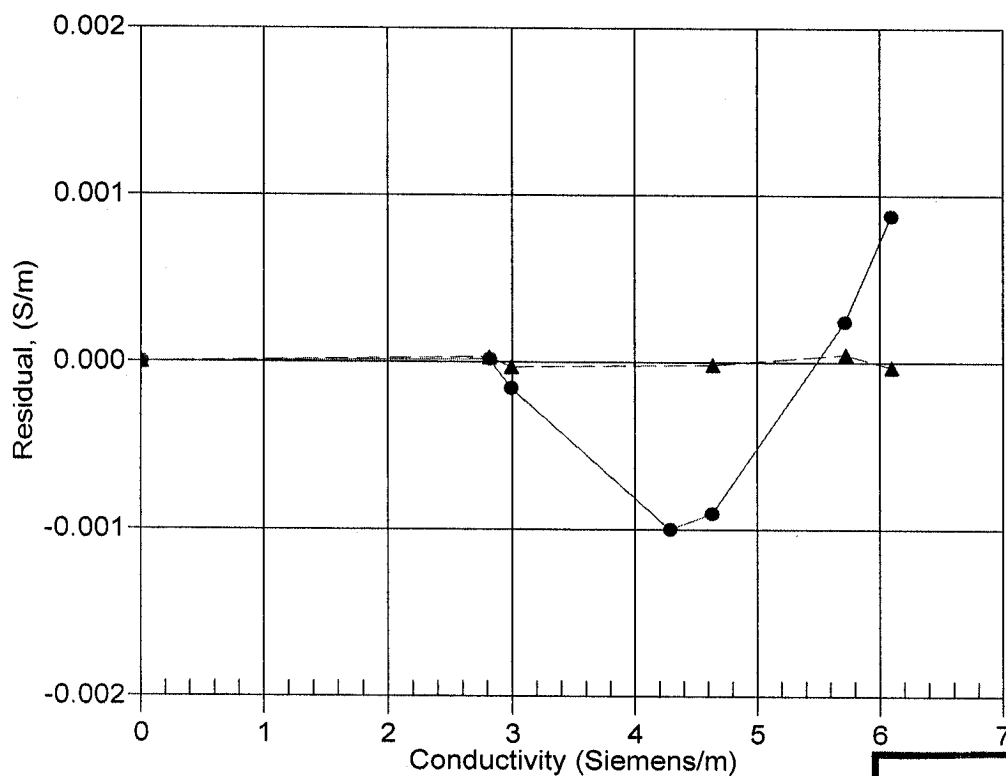
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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

Date, Slope Correction



● 18-Aug-05 1.0000174
▲ 02-Feb-07 1.0000000

**POST CRUISE
CALIBRATION**