

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1374
CALIBRATION DATE: 02-Feb-07

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

GHIJ COEFFICIENTS

g = -4.09110064e+000
h = 4.71886225e-001
i = 1.12052578e-002
j = -5.59797131e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = -1.73634212e-043
b = 5.31444286e-001
c = -4.45686596e+000
d = -7.73692584e-004
m = 40.1
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	2.86238	0.00004	0.00004
-1.0001	34.9419	2.81374	7.83166	2.81286	-0.00088
1.0376	34.9403	2.98882	8.03955	2.98928	0.00046
18.4999	34.9340	4.63228	9.77425	4.63422	0.00194
28.9999	34.9412	5.72046	10.77502	5.71619	-0.00426
32.4999	34.9411	6.09527	11.10948	6.09797	0.00270

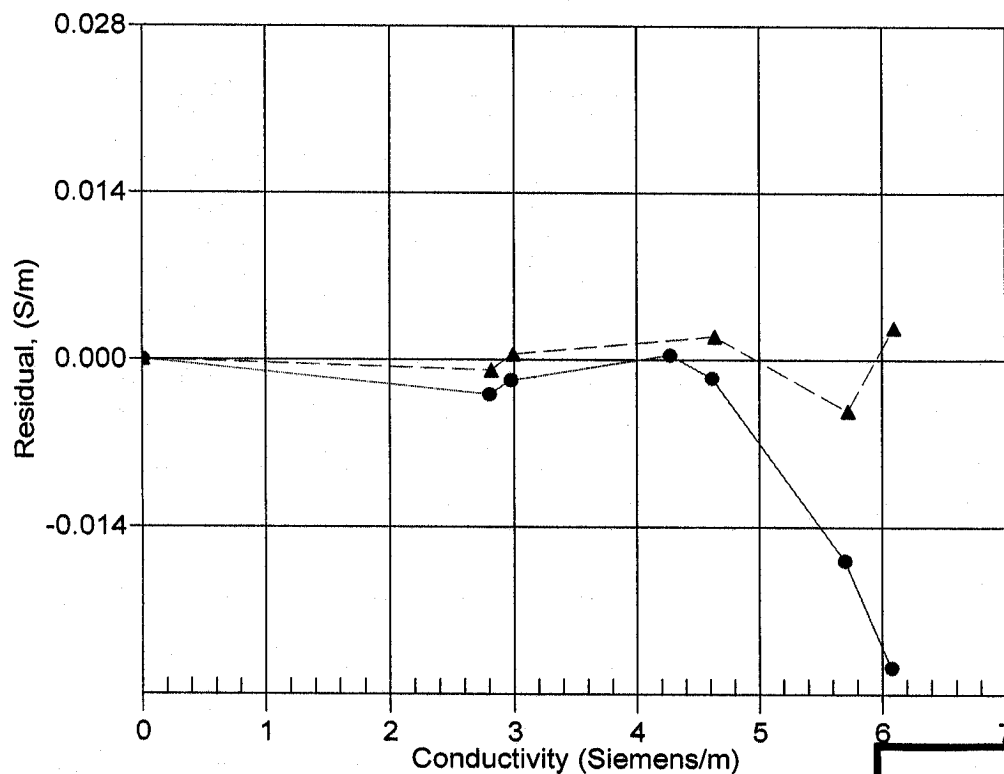
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



**POST CRUISE
CALIBRATION**