

SEA-BIRD ELECTRONICS, INC.
1808 136th Place N.E., Bellevue, Washington, 98005 USA
Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 18-Mar-05

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

GHIJ COEFFICIENTS

g = -4.23112531e+000
h = 5.34382166e-001
i = 1.26674463e-004
j = 2.43146069e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.03417555e-005
b = 5.34538341e-001
c = -4.23112463e+000
d = -7.78896448e-005
m = 3.7
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	2.81241	0.00000	0.00000
-1.0003	34.8340	2.80584	7.75558	2.80586	0.00002
0.9997	34.8346	2.97735	7.95812	2.97735	-0.00000
14.9997	34.8358	4.27372	9.34640	4.27368	-0.00004
18.4997	34.8356	4.62062	9.68371	4.62062	-0.00000
28.9997	34.8331	5.70473	10.66800	5.70482	0.00009
32.4997	34.8274	6.07767	10.98564	6.07761	-0.00006

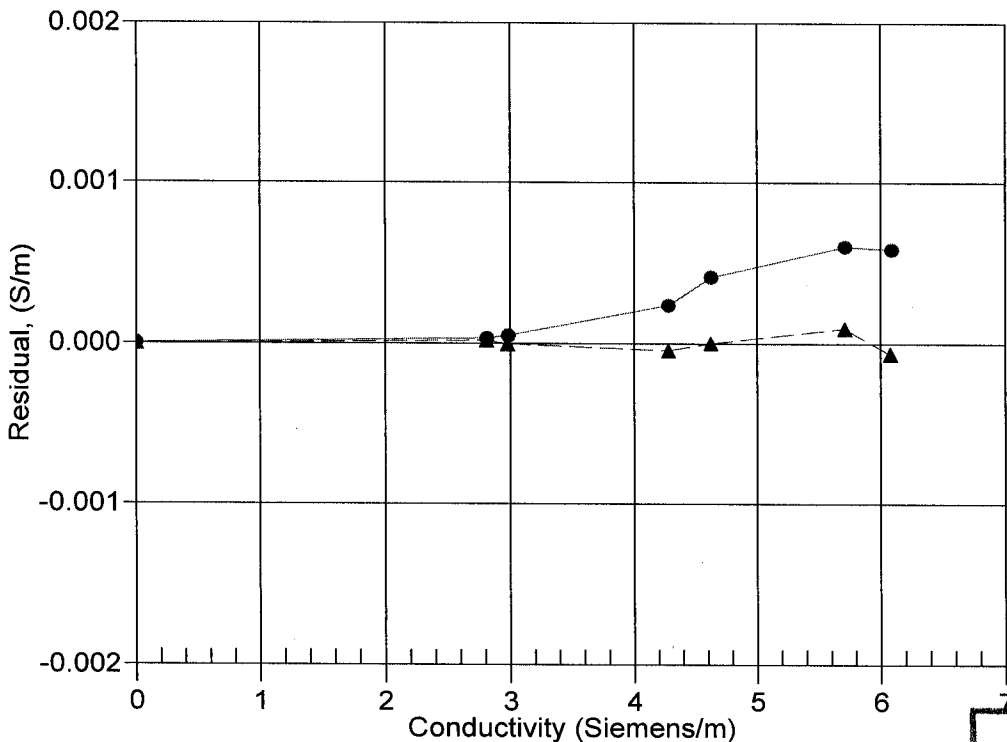
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



**POST CRUISE
CALIBRATION**