

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: 1387
CALIBRATION DATE: 02-Feb-05

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

GHIJ COEFFICIENTS

g = -4.22023610e+000
h = 4.80134876e-001
i = 5.71112267e-005
j = 2.20905520e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.31972784e-005
b = 4.80177552e-001
c = -4.21996198e+000
d = -7.79607169e-005
m = 3.8
CPcor = -9.5700e-008 (nominal)

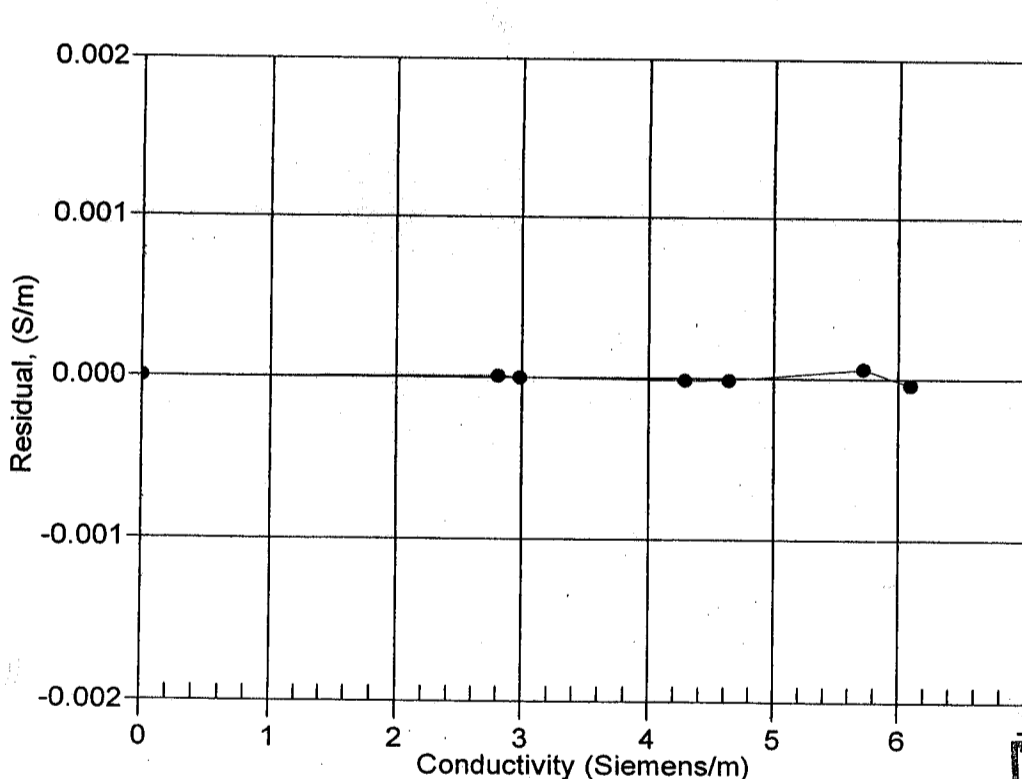
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.96362	0.00000	0.00000
-1.0005	34.9179	2.81195	8.19043	2.81196	0.00001
0.9995	34.9180	2.98378	8.40443	2.98378	-0.00000
14.9995	34.9187	4.28279	9.87128	4.28278	-0.00002
18.4995	34.9188	4.63044	10.22766	4.63043	-0.00001
28.9995	34.9172	5.71693	11.26763	5.71699	0.00006
32.4995	34.9123	6.09078	11.60336	6.09074	-0.00004

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



**CALIBRATION
AFTER
MODIFICATIONS**