

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: 2186
CALIBRATION DATE: 04-Nov-04

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

GHIJ COEFFICIENTS

g = -1.09559830e+001
h = 1.45795021e+000
i = -2.15942884e-003
j = 2.04368625e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.44536217e-009
b = 1.45154056e+000
c = -1.09405439e+001
d = -8.01974447e-005
m = 8.1
CPcor = -9.5700e-008 (nominal)

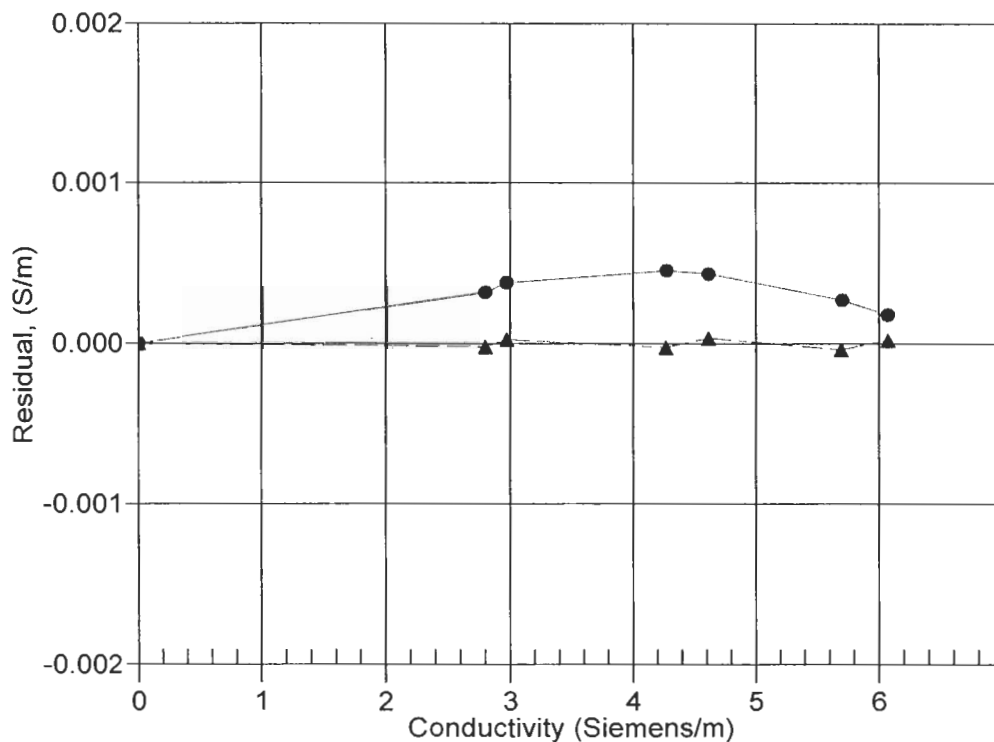
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.74542	0.00000	0.00000
-1.0004	34.7702	2.80117	5.18001	2.80115	-0.00002
0.9996	34.7703	2.97237	5.29262	2.97240	0.00002
14.9996	34.7716	4.26667	6.07635	4.26665	-0.00002
18.4996	34.7709	4.61296	6.26939	4.61299	0.00004
28.9996	34.7707	5.69565	6.83749	5.69561	-0.00004
32.4996	34.7675	6.06840	7.02240	6.06842	0.00002

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-Jan-04 0.9999318
▲ 04-Nov-04 1.0000000

**POST CRUISE
CALIBRATION**