

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: 1374
CALIBRATION DATE: 28-Jul-05

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

GHIJ COEFFICIENTS

g = -4.32594051e+000
h = 5.27844483e-001
i = -2.21449749e-005
j = 3.03221627e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.86720960e-005
b = 5.27770134e-001
c = -4.32574813e+000
d = -8.40093329e-005
m = 4.0
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86227	0.00000	0.00000
-1.3999	34.8544	2.77351	7.78128	2.77350	-0.00001
0.9999	34.8535	2.97883	8.02579	2.97885	0.00002
14.9998	34.8545	4.27578	9.42262	4.27575	-0.00003
18.4998	34.8544	4.62286	9.76208	4.62287	0.00001
28.9999	34.8537	5.70774	10.75283	5.70777	0.00003
32.4999	34.8488	6.08100	11.07272	6.08099	-0.00002

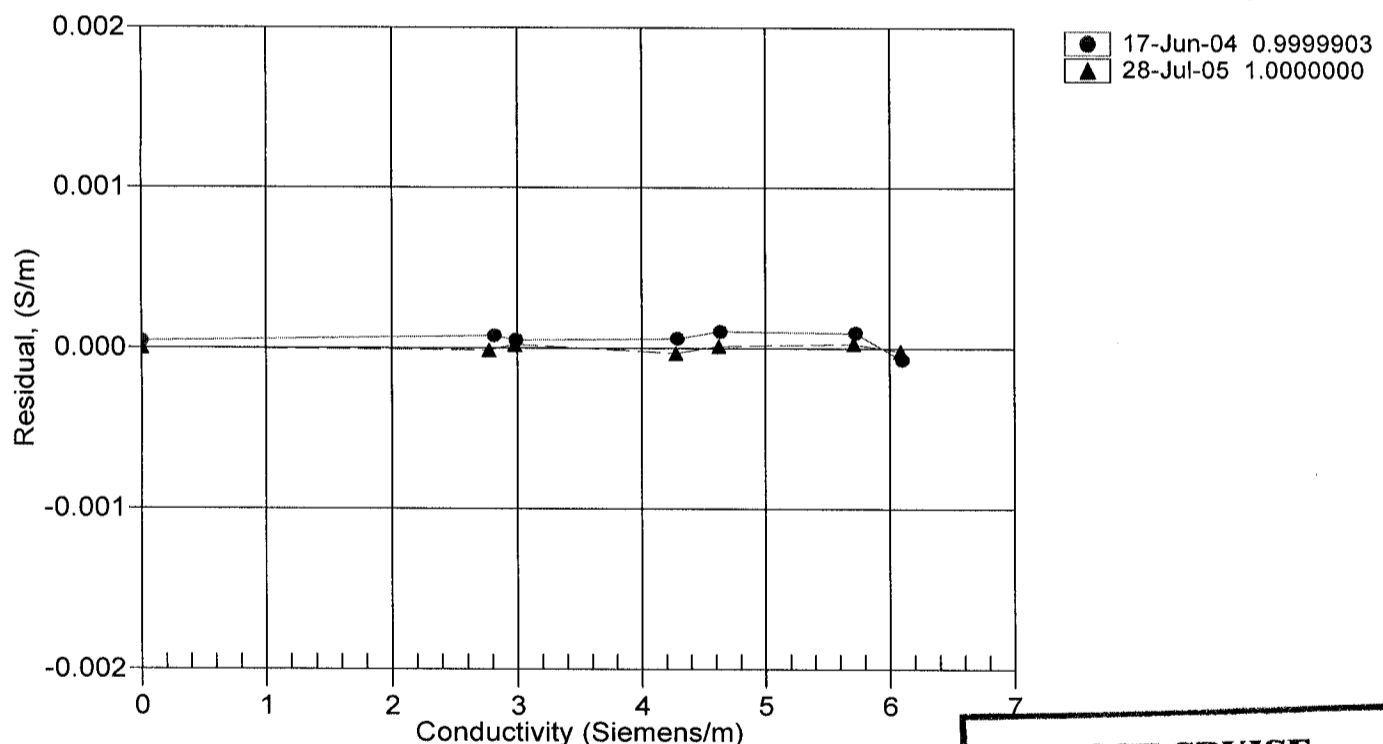
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



**POST CRUISE
CALIBRATION**