

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: 1347
CALIBRATION DATE: 14-Jul-05

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

GHIJ COEFFICIENTS

g = -4.09805265e+000
h = 5.38706404e-001
i = 6.37237447e-006
j = 3.10357812e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.08041938e-005
b = 5.38781488e-001
c = -4.09866477e+000
d = -9.03710245e-005
m = 4.0
CPcor = -9.5700e-008 (nominal)

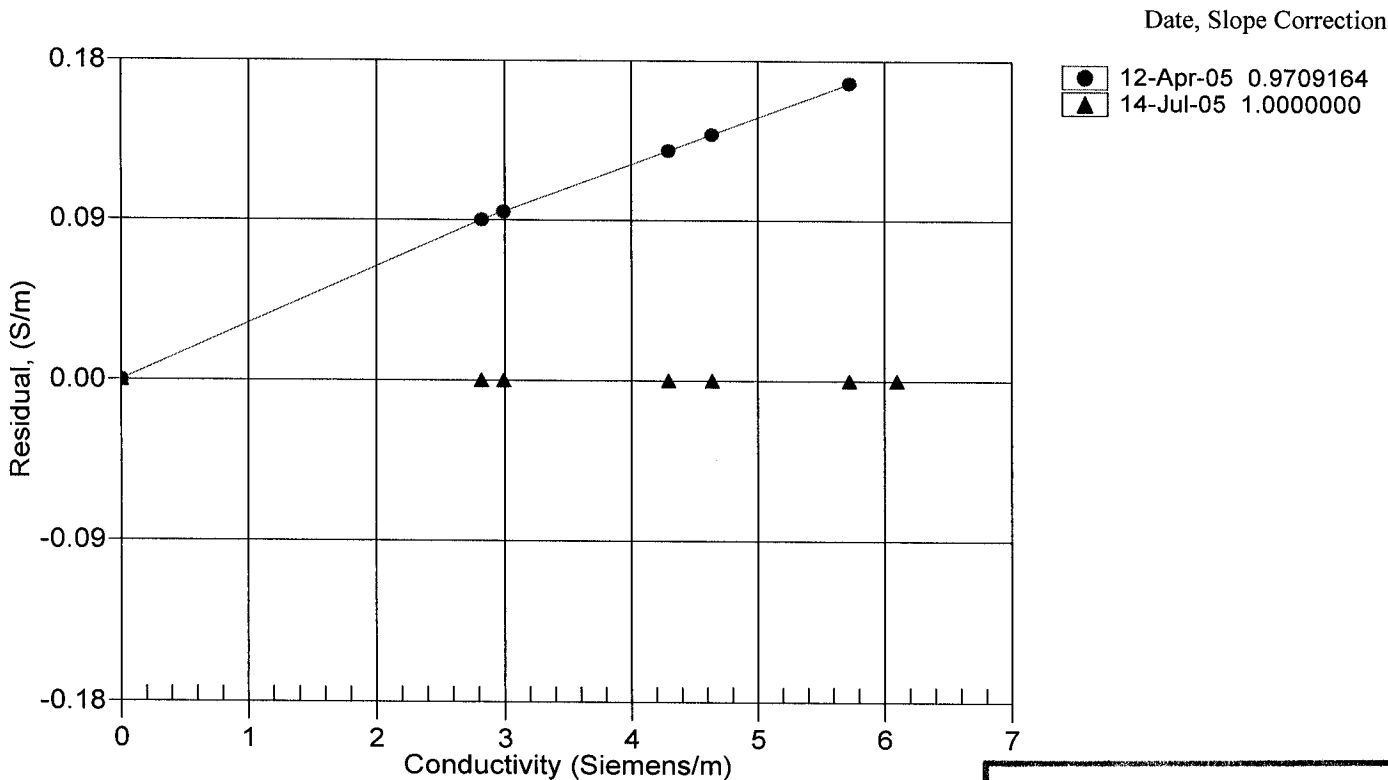
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75747	0.00000	0.00000
-1.0000	34.9555	2.81474	7.72314	2.81476	0.00002
1.0000	34.9558	2.98675	7.92572	2.98674	-0.00001
15.0000	34.9559	4.28692	9.31372	4.28688	-0.00004
18.5000	34.9550	4.63478	9.65078	4.63479	0.00001
29.0000	34.9514	5.72195	10.63408	5.72200	0.00005
32.5000	34.9437	6.09569	10.95119	6.09565	-0.00003

Conductivity = (g + hf² + if³ + jf⁴) / 10(1 + δt + εp) Siemens/meter

Conductivity = (af^m + bf² + c + dt) / [10 (1 +εp) Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



POST CRUISE
CALIBRATION