

**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: 2980  
CALIBRATION DATE: 28-Jul-05

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

GHIJ COEFFICIENTS

g = -1.05613469e+001  
h = 1.44144635e+000  
i = 6.58226637e-004  
j = 2.04275933e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.59093835e-004  
b = 1.44137296e+000  
c = -1.05611106e+001  
d = -8.46718338e-005  
m = 3.1  
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	2.70502	0.00000	0.00000
-1.3999	34.8544	2.77351	5.14738	2.77348	-0.00003
0.9999	34.8535	2.97883	5.28341	2.97886	0.00003
14.9998	34.8545	4.27578	6.07207	4.27579	0.00000
18.4998	34.8544	4.62286	6.26623	4.62287	0.00001
28.9999	34.8537	5.70774	6.83745	5.70771	-0.00004
32.4999	34.8488	6.08100	7.02323	6.08103	0.00002

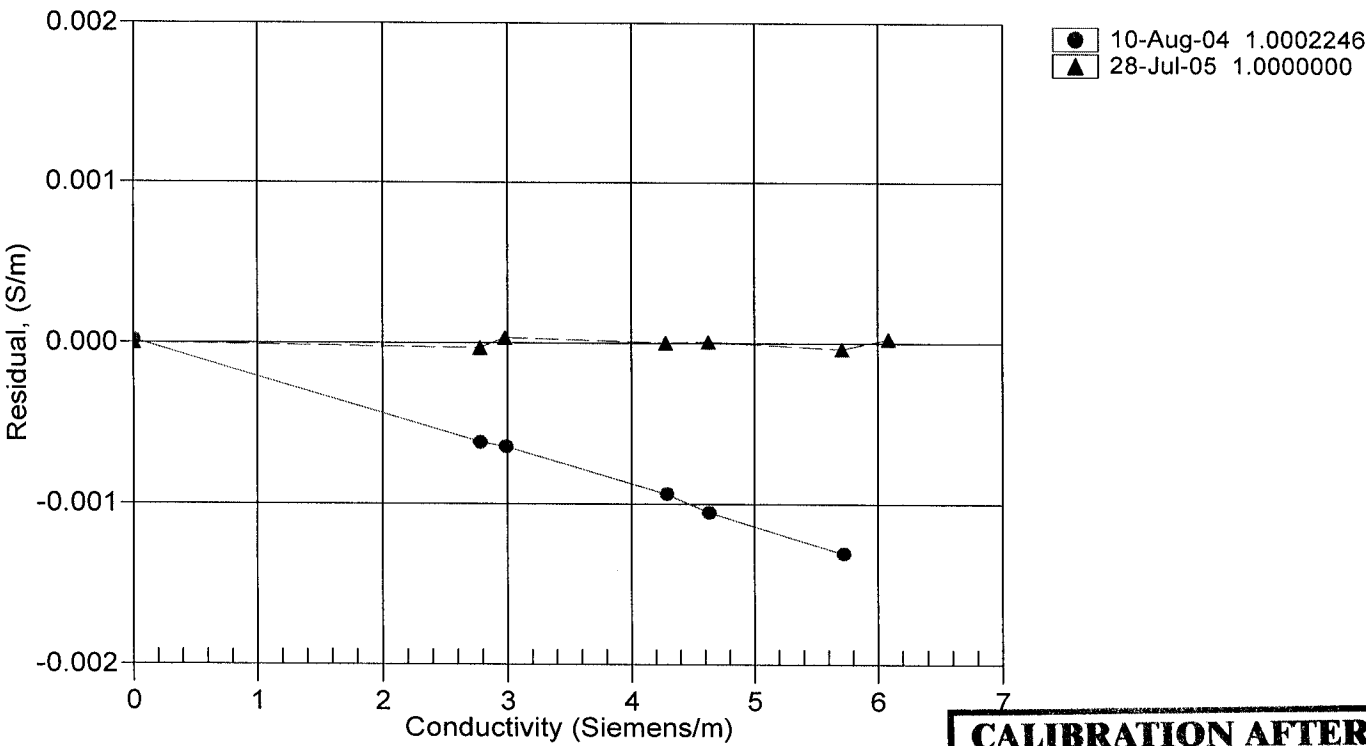
Conductivity = (g + hf<sup>2</sup> + if<sup>3</sup> + jf<sup>4</sup>) / 10(1 + δt + εp) Siemens/meter

Conductivity = (af<sup>m</sup> + bf<sup>2</sup> + 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

Date, Slope Correction



**CALIBRATION AFTER  
CLEANING AND  
REPLATINIZING CELL**