

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2980  
CALIBRATION DATE: 23-Feb-07

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

GHJ COEFFICIENTS

g = -1.00313213e+001  
h = 1.36888357e+000  
i = 7.21185516e-004  
j = 1.29592989e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.49343783e-004  
b = 1.36854861e+000  
c = -1.00307157e+001  
d = -8.42801191e-005  
m = 3.0  
Cpcor = -9.5700e-008 (nominal)

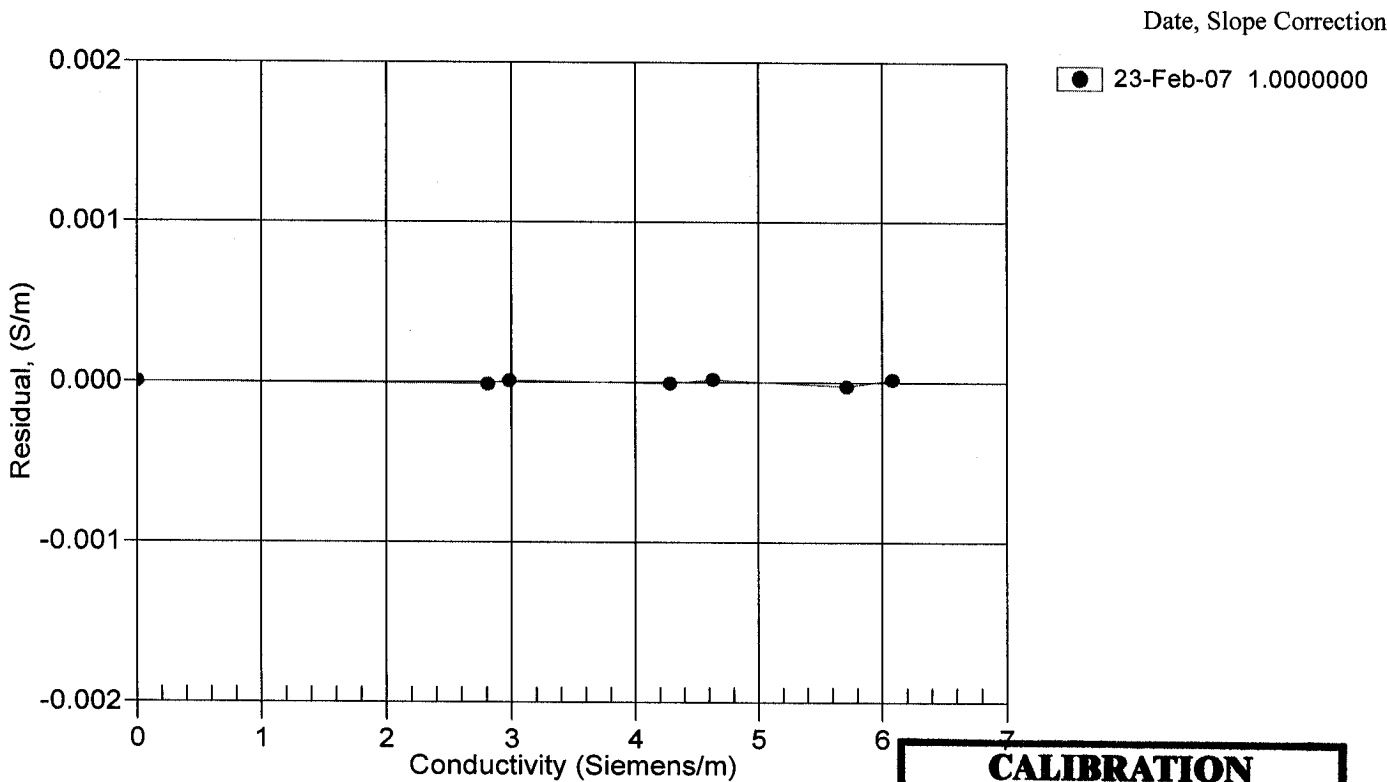
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.70503	0.00000	0.00000
-1.0001	34.8787	2.80913	5.26924	2.80911	-0.00001
0.9999	34.8788	2.98079	5.38640	2.98080	0.00001
14.9999	34.8788	4.27846	6.20041	4.27845	-0.00001
18.4999	34.8776	4.62561	6.40057	4.62563	0.00002
28.9999	34.8737	5.71065	6.98906	5.71062	-0.00002
32.5000	34.8641	6.08338	7.18006	6.08340	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



**CALIBRATION  
AFTER  
MODIFICATIONS**