SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 31-May-07

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

GHIJ COEFFICIENTS

```
g = -4.02263320e+000
h =  5.29763145e-001
i = -1.13514372e-005
j =  3.17741583e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  3.06593420e-005
b =  5.29745562e-001
c = -4.02274832e+000
d = -8.64861423e-005
m =  4.0
CPcor = -9.5700e-008 (nominal)
```

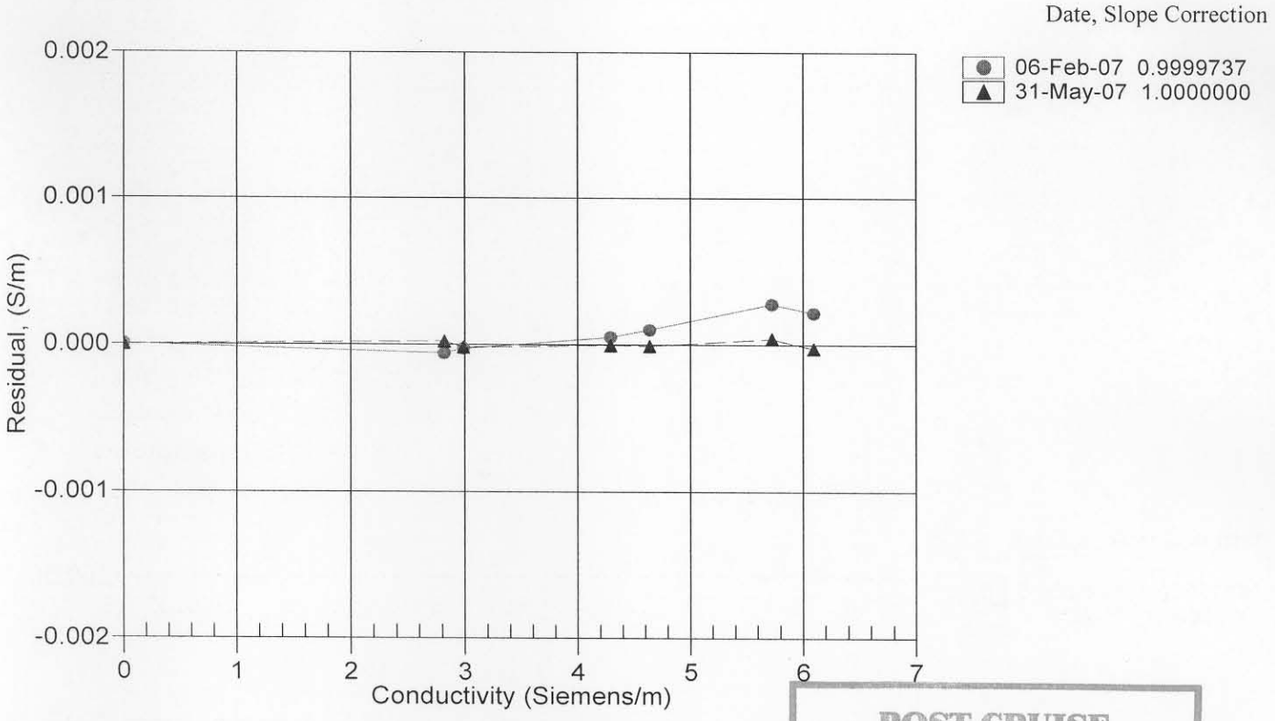
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75504	0.00000	0.00000
-1.0001	34.9525	2.81451	7.77893	2.81454	0.00002
0.9999	34.9530	2.98652	7.98342	2.98650	-0.00002
14.9999	34.9527	4.28656	9.38426	4.28655	-0.00001
18.4998	34.9524	4.63445	9.72436	4.63444	-0.00001
28.9999	34.9502	5.72176	10.71660	5.72180	0.00004
32.4999	34.9445	6.09580	11.03677	6.09577	-0.00003

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

Conductivity = $(af^m + bf^2 + c + dt) / [10 (1 + \varepsilon p)$ 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