SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 02-Feb-07

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

GHIJ COEFFICIENTS

```
g = -4.28209002e+000
h =  5.44280033e-001
i = -1.32826755e-003
j =  9.80289911e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  5.81061637e-008
b =  5.39143998e-001
c = -4.26463928e+000
d = -7.96812376e-005
m =  6.4
CPcor = -9.5700e-008 (nominal)
```

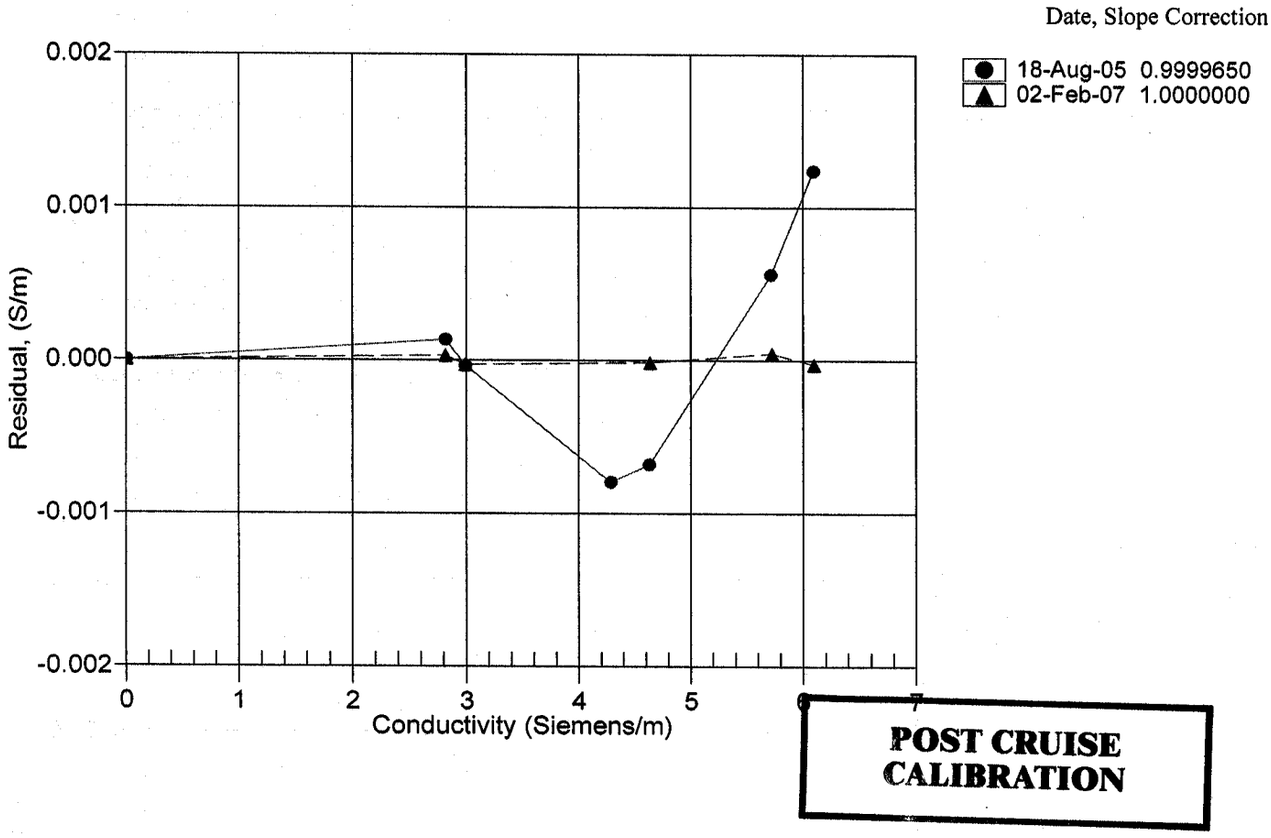
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.81255	0.00000	0.00000
-1.0001	34.9419	2.81374	7.74923	2.81377	0.00003
1.0376	34.9403	2.98882	7.95535	2.98879	-0.00003
18.4999	34.9340	4.63228	9.67537	4.63227	-0.00002
28.9999	34.9412	5.72046	10.65880	5.72050	0.00004
32.4999	34.9411	6.09527	10.97631	6.09524	-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