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: 1374
CALIBRATION DATE: 05-Jan-06

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

GHIJ COEFFICIENTS

```
g = -4.32865428e+000
h =  5.28404940e-001
i = -1.20302880e-004
j =  3.49448737e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  1.63290498e-005
b =  5.28084396e-001
c = -4.32791238e+000
d = -8.63865528e-005
m =  4.2
CPcor = -9.5700e-008 (nominal)
```

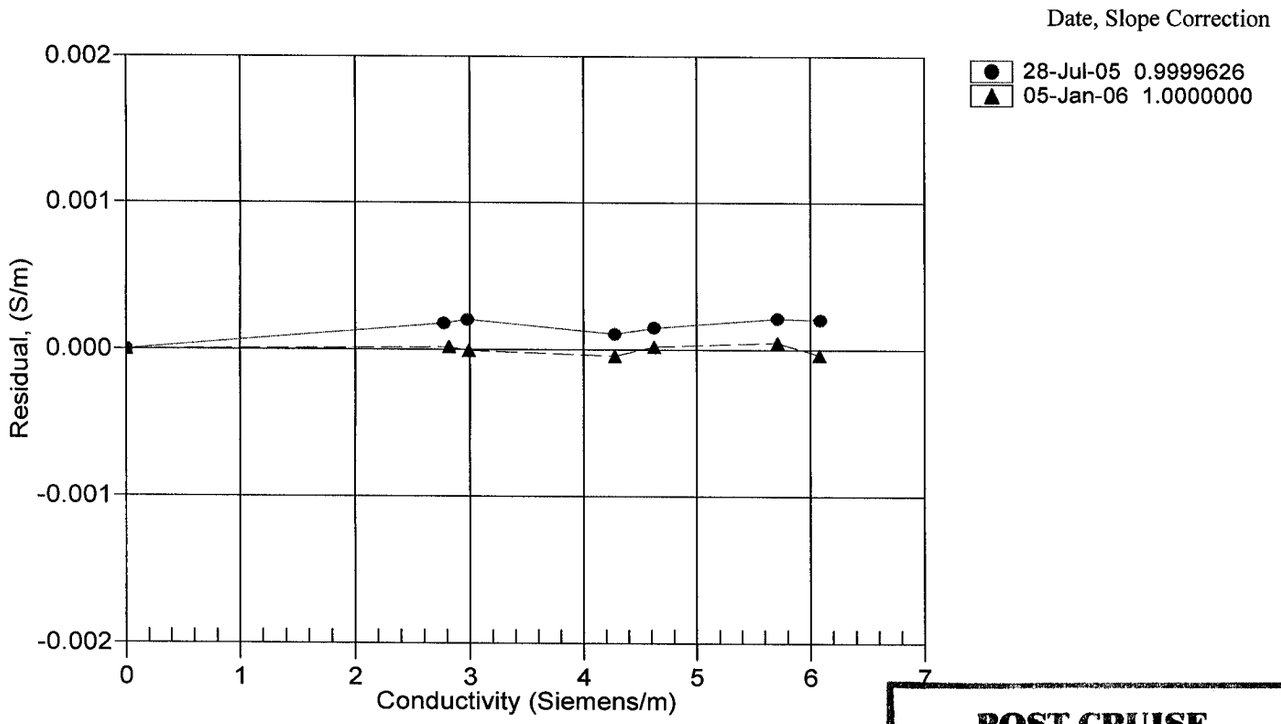
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86231	0.00000	0.00000
-0.9146	34.8540	2.81458	7.83060	2.81459	0.00002
1.0848	34.8544	2.98627	8.03426	2.98626	-0.00001
15.0000	34.8544	4.27579	9.42248	4.27575	-0.00004
18.5000	34.8532	4.62273	9.76184	4.62276	0.00002
29.0000	34.8504	5.70727	10.75228	5.70732	0.00005
32.5001	34.8460	6.08059	11.07217	6.08056	-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