SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1374
CALIBRATION DATE: 17-Jun-04

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

GHIJ COEFFICIENTS

```
g = -4.32788879e+000
h =  5.28202058e-001
i = -9.38215724e-005
j =  3.40210970e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.18032004e-005
b =  5.27894332e-001
c = -4.32680442e+000
d = -8.02263735e-005
m =  4.1
CPcor = -9.5700e-008 (nominal)
```

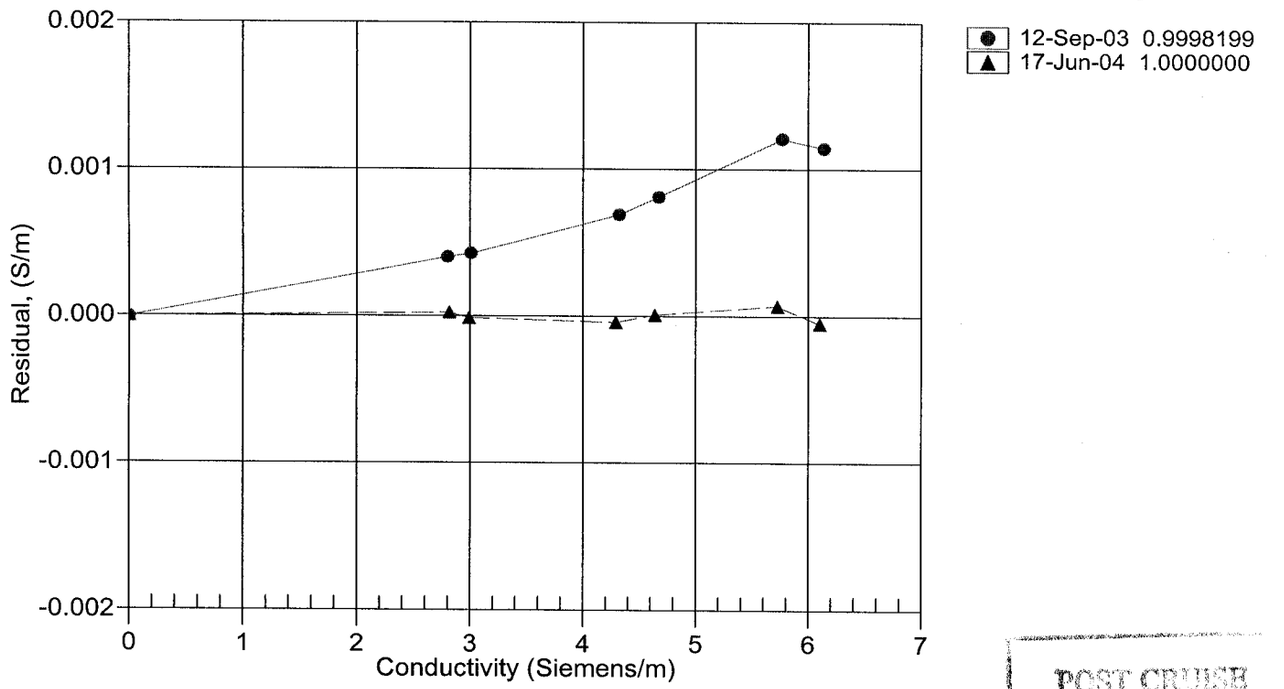
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86242	-0.00000	-0.00000
-1.0003	34.9544	2.81464	7.83097	2.81466	0.00002
0.9997	34.9549	2.98665	8.03499	2.98664	-0.00001
14.9997	34.9559	4.28689	9.43376	4.28685	-0.00004
18.4997	34.9557	4.63483	9.77366	4.63484	0.00001
28.9997	34.9541	5.72231	10.76556	5.72238	0.00007
32.4997	34.9494	6.09653	11.08578	6.09648	-0.00005

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