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: 0357
CALIBRATION DATE: 19-Feb-99

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

GHIJ COEFFICIENTS

```
g = -4.05105387e+000
h =  4.73516140e-001
i = -3.90870120e-006
j =  2.85886871e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.79601368e-005
b =  4.73531730e-001
c = -4.05135439e+000
d = -8.65585625e-005
m =  4.0
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	2.92422	0.00000	0.00000
-1.3234	33.8206	2.70504	8.08875	2.70505	0.00001
1.1239	33.8210	2.90932	8.34911	2.90932	-0.00001
15.2535	33.8216	4.18649	9.81928	4.18645	-0.00004
18.7230	33.8218	4.52223	10.16994	4.52226	0.00003
29.1115	33.8210	5.56885	11.19098	5.56888	0.00004
32.6623	33.8153	5.93784	11.52879	5.93782	-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