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: 1898
CALIBRATION DATE: 27-Jan-09

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

GHIJ COEFFICIENTS

```
g = -1.05866006e+001
h =  1.51674226e+000
i =  4.36761013e-004
j =  7.50875094e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.74124875e-004
b =  1.51724187e+000
c = -1.05874838e+001
d = -8.55931745e-005
m =  3.6
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	2.64048	0.00000	0.00000
-1.0000	34.7867	2.80241	5.03861	2.80242	0.00001
1.0788	34.7871	2.98053	5.15329	2.98053	-0.00000
15.0000	34.7869	4.26839	5.91629	4.26834	-0.00004
18.4999	34.7850	4.61465	6.10512	4.61470	0.00005
29.0000	34.7828	5.69745	6.66067	5.69744	-0.00001
32.4999	34.7776	6.06999	6.84130	6.07000	0.00000

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