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: 1030
CALIBRATION DATE: 31-Jul-09

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

GHIJ COEFFICIENTS

```
g = -4.06969398e+000
h =  5.73503023e-001
i = -6.57780693e-005
j =  3.60541002e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.43306350e-005
b =  5.73363272e-001
c = -4.06958038e+000
d = -8.71644529e-005
m =  4.1
CPcor = -9.5700e-008 (nominal)
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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	2.66368	0.00000	0.00000
-1.0000	34.7165	2.79729	7.46486	2.79729	0.00001
1.0000	34.7171	2.96829	7.66086	2.96830	0.00001
15.0000	34.7194	4.26098	9.00373	4.26094	-0.00004
18.5000	34.7197	4.60694	9.32993	4.60694	0.00000
29.0000	34.7204	5.68838	10.28181	5.68846	0.00008
32.5000	34.7184	6.06085	10.58930	6.06079	-0.00006

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