SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1030
CALIBRATION DATE: 17-Nov-06

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

GHIJ COEFFICIENTS

```
g = -4.06778998e+000
h =  5.73057721e-001
i =  2.83644917e-005
j =  3.03441576e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  4.09446038e-005
b =  5.73111270e-001
c = -4.06802818e+000
d = -1.12838108e-004
m =  3.9
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	2.66360	0.00000	0.00000
-0.9971	34.9671	2.81583	7.48654	2.81584	0.00001
14.9999	34.9675	4.28818	9.03007	4.28812	-0.00006
18.4999	34.9652	4.63597	9.35717	4.63603	0.00006
28.9999	34.9619	5.72346	10.31168	5.72346	0.00000
32.4999	34.9577	6.09784	10.62005	6.09783	-0.00001

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