SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1030
CALIBRATION DATE: 09-Feb-11

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

GHIJ COEFFICIENTS

```
g = -4.06554230e+000
h =  5.72342342e-001
i =  1.90032661e-004
j =  2.27551842e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  5.72166020e-005
b =  5.72915227e-001
c = -4.06716269e+000
d = -7.45739963e-005
m =  3.8
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	2.66366	0.00000	0.00000
-1.0000	34.9765	2.81627	7.48633	2.81628	0.00000
1.0000	34.9766	2.98836	7.68291	2.98836	-0.00000
15.0000	34.9755	4.28907	9.02979	4.28907	-0.00000
18.5000	34.9741	4.63704	9.35682	4.63704	0.00000
29.0001	34.9665	5.72415	10.31078	5.72415	-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