SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1070
CALIBRATION DATE: 27-Jan-09

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

GHIJ COEFFICIENTS

```
g = -4.10420925e+000
h =  5.93346367e-001
i = -7.08135599e-005
j =  3.71359823e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  2.49132416e-005
b =  5.93187268e-001
c = -4.10400924e+000
d = -8.66217136e-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	2.62987	0.00000	0.00000
-1.0000	34.7867	2.80241	7.34933	2.80243	0.00002
1.0788	34.7871	2.98053	7.54968	2.98052	-0.00001
15.0000	34.7869	4.26839	8.86307	4.26833	-0.00006
18.4999	34.7850	4.61465	9.18385	4.61470	0.00005
29.0000	34.7828	5.69745	10.12008	5.69747	0.00002
32.4999	34.7776	6.06999	10.42234	6.06998	-0.00002

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