SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0670
CALIBRATION DATE: 19-Sep-07

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

GHIJ COEFFICIENTS

```
g = -4.30744227e+000
h =  4.56837878e-001
i =  4.82528544e-004
j = -1.62856377e-006
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  6.19773574e-004
b =  4.56566156e-001
c = -4.30719419e+000
d = -8.91189022e-005
m =  2.9
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	3.06573	0.00000	0.00000
-1.0002	34.9324	2.81304	8.39037	2.81302	-0.00002
0.9998	34.9324	2.98492	8.60895	2.98494	0.00002
14.9998	34.9342	4.28452	10.10772	4.28450	-0.00002
18.4998	34.9339	4.63226	10.47203	4.63227	0.00001
28.9998	34.9321	5.71912	11.53568	5.71913	0.00001
32.4998	34.9261	6.09294	11.87920	6.09294	-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