SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1029
CALIBRATION DATE: 09-Jun-11

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

GHIJ COEFFICIENTS

```
g = -4.20396860e+000
h =  5.69928917e-001
i = -1.25265304e-004
j =  3.78115037e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  1.77784153e-005
b =  5.69610621e-001
c = -4.20331349e+000
d = -8.64051063e-005
m =  4.2
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	2.71608	0.00000	0.00000
-1.0000	34.8798	2.80921	7.51983	2.80920	-0.00001
1.0000	34.8801	2.98090	7.71658	2.98092	0.00002
15.0001	34.8814	4.27876	9.06480	4.27874	-0.00002
18.5001	34.8815	4.62609	9.39235	4.62607	-0.00002
29.0001	34.8790	5.71144	10.34811	5.71153	0.00009
32.5000	34.8704	6.08435	10.65615	6.08430	-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