SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2490
CALIBRATION DATE: 16-Dec-10

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

GHIJ COEFFICIENTS

```
g = -9.92583298e+000
h =  1.51048869e+000
i =  8.73078822e-005
j =  8.49607370e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  1.40565062e-004
b =  1.51050550e+000
c = -9.92584986e+000
d = -8.43712024e-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	2.56279	0.00000	0.00000
-1.0000	34.8739	2.80878	5.01235	2.80879	0.00001
1.0000	34.8742	2.98044	5.12410	2.98044	-0.00000
15.0000	34.8741	4.27795	5.90035	4.27793	-0.00002
18.5000	34.8729	4.62507	6.09117	4.62508	0.00002
29.0000	34.8687	5.70993	6.65204	5.70994	0.00000
32.5000	34.8587	6.08255	6.83397	6.08254	-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