SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2489
CALIBRATION DATE: 17-Dec-10

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

GHIJ COEFFICIENTS

```
g = -1.03152575e+001
h =  1.52950247e+000
i = -1.77714116e-004
j =  1.38854115e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  1.20733865e-004
b =  1.52903359e+000
c = -1.03143664e+001
d = -8.28549876e-005
m =  4.0
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	2.59655	0.00000	0.00000
-1.0000	35.1009	2.82535	5.01734	2.82537	0.00001
1.0000	35.1010	2.99797	5.12817	2.99797	0.00000
15.0000	35.0999	4.30270	5.89835	4.30265	-0.00005
18.5000	35.0988	4.65178	6.08780	4.65179	0.00001
29.0000	35.0964	5.74300	6.64481	5.74307	0.00007
32.5000	35.0900	6.11829	6.82567	6.11824	-0.00005

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