SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1018
CALIBRATION DATE: 03-Nov-09

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

GHIJ COEFFICIENTS

```
g = -4.09159190e+000
h =  4.62901673e-001
i = -4.46897210e-004
j =  4.65735218e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  2.09567061e-006
b =  4.61364373e-001
c = -4.08653998e+000
d = -8.88304049e-005
m =  4.9
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	2.97599	0.00000	0.00000
-0.9999	34.8501	2.80705	8.33984	2.80708	0.00002
1.0001	34.8501	2.97859	8.55865	2.97858	-0.00001
15.0001	34.8516	4.27549	10.05770	4.27541	-0.00008
18.5002	34.8514	4.62254	10.42172	4.62260	0.00005
29.0002	34.8502	5.70727	11.48293	5.70732	0.00006
32.5001	34.8448	6.08041	11.82519	6.08036	-0.00004

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