SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1018
CALIBRATION DATE: 27-Jan-09

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

GHIJ COEFFICIENTS

```
g = -4.08899495e+000
h =  4.62783291e-001
i = -4.46580504e-004
j =  4.71911267e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

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a =  2.14853423e-006
b =  4.61271077e-001
c = -4.08421413e+000
d = -9.16999846e-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	2.97541	0.00000	0.00000
-1.0000	34.7867	2.80241	8.33420	2.80246	0.00005
1.0788	34.7871	2.98053	8.56138	2.98049	-0.00004
15.0000	34.7869	4.26839	10.05038	4.26828	-0.00011
18.4999	34.7850	4.61465	10.41391	4.61475	0.00009
29.0000	34.7828	5.69745	11.47392	5.69748	0.00003
32.4999	34.7776	6.06999	11.81591	6.06996	-0.00003

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