SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 19-Sep-03

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

GHIJ COEFFICIENTS

```
g = -3.84378696e+000
h =  4.15327401e-001
i =  5.00477915e-005
j =  1.82039476e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  1.01926829e-002
b =  4.05185510e-001
c = -3.86878992e+000
d = -1.30868894e-003
m =  2.1
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	3.04100	0.00000	0.00000
-1.0004	34.8740	2.80876	8.74897	2.80875	-0.00000
0.9996	34.8744	2.98042	8.98019	2.98043	0.00001
14.9996	34.8769	4.27822	10.56311	4.27816	-0.00006
18.4996	34.8763	4.62543	10.94730	4.62548	0.00005
28.9996	34.8755	5.71088	12.06770	5.71087	-0.00001

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