SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2691
CALIBRATION DATE: 28-Mar-03

SBE19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -4.26752352e+000
h = 5.10822808e-001
i = 5.76741759e-004
j = 6.59958830e-007
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.21151203e-004
b = 5.10078082e-001
c = -4.26338632e+000
d = -7.98409402e-005
m = 2.9
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2.88565	-0.00000	-0.00000
0.9999	34.7161	2.96821	8.11496	2.96824	0.00004
4.5000	34.7158	3.27618	8.47332	3.27619	0.00001
15.0000	34.7121	4.26018	9.52722	4.26009	-0.00009
18.5000	34.7109	4.60589	9.87048	4.60582	-0.00007
24.0000	34.7092	5.16445	10.40090	5.16453	0.00007
29.0000	34.7083	5.68662	10.87298	5.68680	0.00019
32.4999	34.7077	6.05918	11.19709	6.05904	-0.00014

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