SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0810
CALIBRATION DATE: 01-Dec-10

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.084908e+000
h =  1.522920e-001
i = -4.737884e-004
j =  5.952401e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -7.1529e-005
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2678.57	0.00000	0.00000
0.9999	34.8412	2.97788	5179.81	2.97786	-0.00002
4.4999	34.8208	3.28510	5372.29	3.28513	0.00003
15.0000	34.7770	4.26730	5945.50	4.26728	-0.00002
18.5000	34.7674	4.61258	6134.17	4.61260	0.00002
24.0000	34.7564	5.17070	6427.23	5.17072	0.00002
29.0000	34.7486	5.69248	6689.36	5.69243	-0.00005
32.5000	34.7441	6.06482	6870.24	6.06485	0.00003

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \varepsilon p)$ Siemens/meter

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity