SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1851
CALIBRATION DATE: 19-Jan-11

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

COEFFICIENTS:

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g = -1.028660e+000
h =  1.406950e-001
i = -2.202669e-004
j =  4.053006e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.6784e-006
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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	2706.74	0.00000	0.00000
1.0000	34.7907	2.97399	5334.18	2.97399	0.00000
4.5000	34.7706	3.28084	5533.98	3.28081	-0.00003
15.0000	34.7270	4.26182	6128.37	4.26189	0.00007
18.5000	34.7176	4.60669	6323.68	4.60670	0.00001
23.9999	34.7076	5.16423	6626.91	5.16415	-0.00008
29.0000	34.7015	5.68563	6898.12	5.68563	0.00000
32.4999	34.6968	6.05749	7084.95	6.05752	0.00002

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