SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3763
CALIBRATION DATE: 22-Dec-10

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

COEFFICIENTS:

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g = -1.042267e+000
h =  1.425121e-001
i = -1.540777e-004
j =  3.423881e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -9.2672e-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	2706.21	0.00000	0.00000
1.0000	34.6579	2.96371	5299.20	2.96371	-0.00000
4.5000	34.6377	3.26953	5497.04	3.26953	0.00000
15.0000	34.5951	4.24734	6085.85	4.24733	-0.00001
18.5000	34.5859	4.59109	6279.50	4.59113	0.00003
24.0000	34.5753	5.14672	6580.10	5.14668	-0.00005
29.0000	34.5677	5.66617	6848.95	5.66620	0.00003
32.5001	34.5615	6.03657	7034.16	6.03656	-0.00001

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