SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1858
CALIBRATION DATE: 21-Dec-10

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

COEFFICIENTS:

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g = -1.035523e+000
h =  1.450938e-001
i = -7.996562e-005
j =  3.180860e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  4.6484e-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	2671.24	0.00000	0.00000
1.0000	34.8587	2.97924	5251.97	2.97925	0.00001
4.5000	34.8384	3.28660	5448.31	3.28660	-0.00000
15.0000	34.7943	4.26920	6032.42	4.26919	-0.00001
18.5000	34.7846	4.61462	6224.44	4.61462	-0.00000
23.9999	34.7730	5.17289	6522.52	5.17292	0.00003
29.0000	34.7660	5.69501	6789.06	5.69498	-0.00003
32.5000	34.7603	6.06733	6972.74	6.06734	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