SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2355
CALIBRATION DATE: 19-Aug-11

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

COEFFICIENTS:

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g = -1.034376e+000
h =  1.538281e-001
i = -2.555324e-004
j =  4.758559e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  7.7050e-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	2595.79	0.00000	0.00000
1.0000	34.9919	2.98954	5115.56	2.98955	0.00001
4.4999	34.9715	3.29791	5307.11	3.29791	-0.00000
15.0000	34.9279	4.28385	5876.90	4.28383	-0.00002
18.5000	34.9186	4.63047	6064.19	4.63047	-0.00000
24.0000	34.9080	5.19075	6354.93	5.19078	0.00002
29.0000	34.9006	5.71457	6614.80	5.71459	0.00002
32.5000	34.8942	6.08803	6793.77	6.08801	-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