Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0822
CALIBRATION DATE: 17-Apr-12

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

COEFFICIENTS:

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g = -1.035657e+000
h =  1.593715e-001
i = -2.621330e-004
j =  4.931459e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.8737e-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	2552.78	0.00000	0.00000
1.0000	34.9254	2.98440	5023.64	2.98444	0.00004
4.5000	34.9048	3.29225	5211.93	3.29221	-0.00004
15.0000	34.8606	4.27647	5772.36	4.27644	-0.00003
18.5000	34.8510	4.62247	5956.64	4.62247	-0.00001
24.0000	34.8405	5.18183	6242.80	5.18186	0.00003
29.0000	34.8344	5.70495	6498.74	5.70499	0.00004
32.5000	34.8308	6.07823	6675.17	6.07819	-0.00004

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