Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1869
CALIBRATION DATE: 24-Jan-12

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

COEFFICIENTS:

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g = -1.054225e+000
h =  1.519468e-001
i = -2.568196e-004
j =  4.464204e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  5.1842e-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	2637.07	0.00000	0.00000
1.0000	34.6871	2.96597	5146.10	2.96601	0.00004
4.4999	34.6669	3.27201	5337.60	3.27196	-0.00004
14.9999	34.6219	4.25027	5907.58	4.25027	-0.00000
18.5000	34.6124	4.59423	6095.03	4.59423	0.00000
24.0000	34.6018	5.15023	6386.10	5.15025	0.00001
29.0000	34.5957	5.67024	6646.44	5.67024	0.00000
32.5000	34.5913	6.04118	6825.88	6.04117	-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