Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2024
CALIBRATION DATE: 05-Feb-14

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

COEFFICIENTS:

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g = -9.944050e-001
h =  1.472811e-001
i = -1.084098e-004
j =  3.478751e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.8161e-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	2598.72	0.00000	0.00000
1.0000	34.7364	2.96979	5181.50	2.96979	0.00001
4.5000	34.7166	3.27624	5377.11	3.27624	-0.00001
15.0000	34.6741	4.25601	5958.70	4.25599	-0.00002
18.5000	34.6649	4.60045	6149.81	4.60046	0.00001
24.0000	34.6546	5.15723	6446.41	5.15724	0.00002
29.0000	34.6484	5.67791	6711.56	5.67790	-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