Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 08-Dec-11

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

COEFFICIENTS:

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g = -1.015391e+000
h =  1.404347e-001
i = -1.315114e-004
j =  3.381537e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  9.2934e-007
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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	2689.95	0.00000	0.00000
1.0000	34.9479	2.98614	5333.03	2.98614	0.00000
4.4999	34.9276	3.29418	5533.58	3.29418	0.00000
15.0000	34.8838	4.27902	6129.98	4.27900	-0.00002
18.4999	34.8741	4.62520	6325.97	4.62520	-0.00000
24.0000	34.8629	5.18479	6630.21	5.18482	0.00003
28.9999	34.8543	5.70783	6902.05	5.70782	-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