SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 05-Jan-11

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

COEFFICIENTS:

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g = -1.015464e+000
h =  1.404563e-001
i = -1.368431e-004
j =  3.408399e-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	34.6607	2.96393	5318.31	2.96394	0.00001
4.4999	34.6408	3.26978	5518.01	3.26978	-0.00000
14.9999	34.5975	4.24759	6111.94	4.24757	-0.00002
18.4999	34.5883	4.59137	6307.16	4.59135	-0.00001
23.9999	34.5779	5.14706	6610.23	5.14708	0.00002
29.0000	34.5716	5.66673	6881.20	5.66676	0.00003
32.5000	34.5675	6.03749	7067.94	6.03747	-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