Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2023
CALIBRATION DATE: 20-Nov-15

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

COEFFICIENTS:

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g = -1.034665e+000
h =  1.484516e-001
i =  1.519732e-004
j =  2.379106e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.5476e-005
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BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2635.74	0.00000	0.00000
1.0000	34.6081	2.95986	5162.76	2.95988	0.00003
4.5000	34.5879	3.26529	5355.35	3.26526	-0.00003
15.0000	34.5450	4.24184	5928.51	4.24182	-0.00002
18.5000	34.5360	4.58518	6117.00	4.58519	0.00001
24.0000	34.5264	5.14025	6409.67	5.14027	0.00002
29.0000	34.5214	5.65943	6671.47	5.65941	-0.00001
32.5000	34.5189	6.02997	6851.98	6.02987	-0.00010

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity