Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2024
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 = -9.951710e-001
h =  1.474307e-001
i = -1.225298e-004
j =  3.567414e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.8161e-006
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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	2598.67	0.00000	0.00000
1.0000	34.7575	2.97142	5181.32	2.97144	0.00002
4.5000	34.7383	3.27809	5376.94	3.27807	-0.00002
15.0000	34.6958	4.25839	5958.54	4.25838	-0.00001
18.5001	34.6868	4.60305	6149.66	4.60305	-0.00000
24.0000	34.6770	5.16019	6446.29	5.16021	0.00002
29.0000	34.6716	5.68128	6711.50	5.68129	0.00001
32.4999	34.6687	6.05315	6894.32	6.05314	-0.00001

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