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SENSOR SERIAL NUMBER: 0823
CALIBRATION DATE: 19-Nov-23

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

COEFFICIENTS:

g = -1.030302e+000
h = 1.548579e-001
i = 1.338799e-005
j = 2.564396e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7202e-005

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	2578.45	0.00000	0.00000
1.0000	35.0900	2.99712	5087.80	2.99713	0.00001
4.4999	35.0688	3.30618	5278.76	3.30616	-0.00002
14.9999	35.0245	4.29443	5847.17	4.29445	0.00002
18.5000	35.0144	4.64180	6034.02	4.64176	-0.00004
24.0000	35.0028	5.20329	6324.24	5.20330	0.00001
29.0000	34.9943	5.72818	6583.74	5.72820	0.00002
32.5000	34.9875	6.10245	6762.55	6.10244	-0.00001

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

