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SENSOR SERIAL NUMBER: 0385
CALIBRATION DATE: 29-Nov-23

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

COEFFICIENTS:

g = -1.083908e+000
h = 1.555297e-001
i = -3.630952e-004
j = 5.019896e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.8271e-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	2647.38	0.00000	0.00000
1.0000	34.6370	2.96210	5109.58	2.96208	-0.00001
4.5000	34.6173	3.26779	5299.34	3.26780	0.00001
15.0000	34.5757	4.24521	5864.74	4.24521	0.00000
18.5000	34.5670	4.58885	6050.90	4.58887	0.00002
24.0000	34.5573	5.14434	6340.12	5.14433	-0.00002
29.0000	34.5509	5.66372	6598.96	5.66370	-0.00002
32.5000	34.5443	6.03390	6777.35	6.03392	0.00002

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

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

