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SENSOR SERIAL NUMBER: 0825
CALIBRATION DATE: 29-Oct-23

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

COEFFICIENTS:

g = -9.202020e-001
h = 1.413635e-001
i = -1.083642e-004
j = 3.623535e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.9023e-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	2552.55	0.00000	0.00000
1.0000	35.0234	2.99197	5252.75	2.99197	-0.00000
4.5000	35.0029	3.30059	5455.22	3.30059	0.00000
15.0000	34.9571	4.28705	6056.32	4.28706	0.00001
18.4999	34.9467	4.63378	6253.58	4.63377	-0.00001
24.0000	34.9341	5.19421	6559.59	5.19422	0.00001
29.0000	34.9270	5.71840	6833.06	5.71840	-0.00000
32.5000	34.9187	6.09182	7020.54	6.09052	-0.00130

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

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

