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SENSOR SERIAL NUMBER: 1242
CALIBRATION DATE: 17-Feb-23

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

COEFFICIENTS:

g = -1.054098e+000
h = 1.543673e-001
i = -2.386183e-004
j = 4.449447e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.8400e-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	2616.67	0.00000	0.00000
0.9999	34.6380	2.96216	5101.85	2.96224	0.00008
4.4999	34.6182	3.26786	5291.90	3.26776	-0.00010
15.0000	34.5763	4.24528	5858.07	4.24527	-0.00000
18.5000	34.5675	4.58891	6044.30	4.58892	0.00001
24.0000	34.5580	5.14443	6333.54	5.14446	0.00003
29.0000	34.5531	5.66404	6592.30	5.66402	-0.00002
32.5000	34.5500	6.03478	6770.64	6.03454	-0.00024

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

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

