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SENSOR SERIAL NUMBER: 0473
CALIBRATION DATE: 25-Sep-22

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

COEFFICIENTS:

g = -1.086898e+000
h = 1.489958e-001
i = -3.849835e-004
j = 5.056375e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.9823e-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	2709.08	0.00000	0.00000
1.0000	34.6423	2.96251	5224.52	2.96251	0.00001
4.5000	34.6226	3.26824	5418.31	3.26825	0.00001
15.0000	34.5793	4.24560	5995.56	4.24556	-0.00005
18.5000	34.5697	4.58917	6185.60	4.58918	0.00001
24.0000	34.5590	5.14457	6480.85	5.14462	0.00005
29.0000	34.5522	5.66391	6745.01	5.66388	-0.00003
32.5000	34.5460	6.03416	6926.35	6.03257	-0.00159

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

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

