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SENSOR SERIAL NUMBER: 2002
CALIBRATION DATE: 22-Sep-22

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

COEFFICIENTS:

g = -1.033960e+000
h = 1.457855e-001
i = -9.764697e-005
j = 3.236740e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.7929e-006

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	2663.17	0.00000	0.00000
1.0000	34.6926	2.96640	5231.57	2.96639	-0.00001
4.5000	34.6718	3.27243	5427.06	3.27245	0.00002
14.9999	34.6272	4.25085	6008.58	4.25084	-0.00002
18.5000	34.6176	4.59485	6199.78	4.59484	-0.00001
24.0000	34.6060	5.15079	6496.59	5.15082	0.00003
29.0000	34.5985	5.67065	6761.97	5.67063	-0.00001
32.5000	34.5934	6.04150	6944.86	6.04141	-0.00009

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

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

