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SENSOR SERIAL NUMBER: 0661
CALIBRATION DATE: 25-Sep-22

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

COEFFICIENTS:

g = -1.042583e+000
h = 1.561434e-001
i = -7.839156e-005
j = 3.327341e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7375e-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	2584.62	0.00000	0.00000
1.0000	34.6423	2.96251	5057.32	2.96252	0.00002
4.5000	34.6226	3.26824	5246.22	3.26823	-0.00001
15.0000	34.5793	4.24560	5808.48	4.24557	-0.00003
18.5000	34.5697	4.58917	5993.43	4.58919	0.00001
24.0000	34.5590	5.14457	6280.65	5.14460	0.00003
29.0000	34.5522	5.66391	6537.55	5.66389	-0.00002
32.5000	34.5460	6.03416	6714.47	6.03392	-0.00025

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

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

