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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 15-Sep-21

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

COEFFICIENTS:

g = -1.007423e+000
h = 1.217340e-001
i = -1.424007e-004
j = 2.659421e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2878.71	0.00000	0.00000
1.0000	34.6984	2.96685	5712.48	2.96685	0.00001
4.5000	34.6787	3.27302	5927.49	3.27300	-0.00002
15.0000	34.6376	4.25200	6567.01	4.25202	0.00002
18.5000	34.6292	4.59622	6777.18	4.59622	0.00000
23.9999	34.6203	5.15267	7103.44	5.15266	-0.00002
29.0000	34.6156	5.67313	7395.19	5.67314	0.00001
32.5000	34.6118	6.04435	7596.32	6.04457	0.00022

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

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

