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SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 31-Aug-24

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

COEFFICIENTS:

g = -1.020286e+000
h = 1.423272e-001
i = -2.944798e-004
j = 4.305794e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.1795e-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	2681.74	0.00000	0.00000
1.0000	34.6497	2.96308	5296.85	2.96309	0.00001
4.5000	34.6293	3.26881	5495.66	3.26881	-0.00001
15.0000	34.5872	4.24647	6087.14	4.24647	-0.00000
18.4999	34.5788	4.59024	6281.59	4.59023	-0.00001
24.0000	34.5699	5.14601	6583.48	5.14601	0.00001
29.0000	34.5656	5.66586	6853.46	5.66587	0.00001
32.5001	34.5637	6.03691	7039.60	6.03690	-0.00001

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

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

