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SENSOR SERIAL NUMBER: 1850
CALIBRATION DATE: 08-Jun-23

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

COEFFICIENTS:

g = -9.659207e-001
h = 1.362409e-001
i = -6.089437e-005
j = 2.984298e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 2.0033e-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	2662.13	0.00000	0.00000
1.0000	34.6867	2.96594	5361.66	2.96593	-0.00001
4.5000	34.6672	3.27204	5565.38	3.27206	0.00002
15.0000	34.6257	4.25070	6170.69	4.25068	-0.00002
18.5000	34.6168	4.59475	6369.49	4.59475	-0.00000
24.0000	34.6070	5.15092	6678.00	5.15094	0.00002
29.0000	34.6009	5.67100	6953.69	5.67099	-0.00001
32.5000	34.5952	6.04178	7143.47	6.04167	-0.00011

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

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

