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SENSOR SERIAL NUMBER: 0399  
 CALIBRATION DATE: 01-Feb-23

SBE 45 CONDUCTIVITY CALIBRATION DATA  
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.763183e-001      CPcor = -9.5700e-008  
 h = 1.428638e-001      CTcor = 3.2500e-006  
 i = -4.948126e-004      WBOTC = 6.9909e-007  
 j = 5.857966e-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	2622.38	0.00000	0.00000
1.0000	34.6258	2.96123	5268.04	2.96124	0.00001
4.5000	34.6055	3.26679	5468.11	3.26678	-0.00001
15.0000	34.5616	4.24366	6062.76	4.24365	-0.00001
18.5000	34.5518	4.58705	6258.05	4.58706	0.00001
24.0000	34.5402	5.14208	6561.04	5.14208	0.00001
29.0000	34.5300	5.66068	6831.60	5.66067	-0.00000
32.5000	34.5183	6.02987	7017.67	6.02998	0.00011

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

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

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

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

