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SENSOR SERIAL NUMBER: 0385
 CALIBRATION DATE: 07-Mar-24

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

COEFFICIENTS:

g = -9.822430e-001 CPcor = -9.5700e-008
 h = 1.330088e-001 CTcor = 3.2500e-006
 i = -3.091269e-005 WBOTC = 2.7605e-007
 j = 2.125754e-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	2716.74	0.00000	0.00000
1.0000	34.6436	2.96261	5436.58	2.96262	0.00001
4.5000	34.6242	3.26838	5642.46	3.26836	-0.00002
15.0000	34.5836	4.24608	6254.74	4.24608	0.00000
18.5000	34.5748	4.58978	6455.92	4.58978	0.00001
23.9999	34.5649	5.14534	6768.18	5.14533	-0.00001
29.0000	34.5580	5.66475	7047.33	5.66475	-0.00000
32.5000	34.5512	6.03497	7239.54	6.03497	0.00000

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

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

