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SENSOR SERIAL NUMBER: 1244
CALIBRATION DATE: 12-Feb-23

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

COEFFICIENTS:

g = -1.040121e+000
h = 1.573877e-001
i = -6.423919e-005
j = 3.444590e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.8870e-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	2571.04	0.00000	0.00000
1.0000	34.6938	2.96649	5036.78	2.96651	0.00002
4.5000	34.6746	3.27267	5225.06	3.27266	-0.00001
15.0000	34.6330	4.25150	5785.43	4.25147	-0.00003
18.5000	34.6240	4.59560	5969.74	4.59560	0.00000
24.0000	34.6143	5.15189	6255.98	5.15191	0.00002
29.0000	34.6090	5.67217	6512.05	5.67219	0.00001
32.5000	34.6043	6.04319	6688.51	6.04317	-0.00002

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

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

