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SENSOR SERIAL NUMBER: 0385
CALIBRATION DATE: 10-Sep-21

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

COEFFICIENTS:

g = -1.084869e+000
h = 1.557639e-001
i = -4.084007e-004
j = 5.487226e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.8271e-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	2647.30	0.00000	0.00000
1.0000	34.6747	2.96501	5109.98	2.96501	0.00000
4.5000	34.6552	3.27102	5299.74	3.27102	-0.00000
14.9999	34.6142	4.24943	5865.14	4.24942	-0.00001
18.5000	34.6055	4.59341	6051.28	4.59342	0.00001
24.0000	34.5961	5.14948	6340.48	5.14948	0.00000
29.0000	34.5905	5.66948	6599.31	5.66948	-0.00000
32.5000	34.5856	6.04029	6777.83	6.04046	0.00017

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

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

