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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 10-Sep-21

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

COEFFICIENTS:

g = -9.658999e-001
h = 1.380328e-001
i = -2.943304e-004
j = 4.349597e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.4403e-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	2652.32	0.00000	0.00000
1.0000	34.6521	2.96326	5341.96	2.96329	0.00002
4.5000	34.6336	3.26918	5546.10	3.26916	-0.00002
15.0000	34.5927	4.24708	6153.11	4.24706	-0.00002
18.5000	34.5838	4.59084	6352.60	4.59085	0.00000
24.0000	34.5736	5.14650	6662.25	5.14652	0.00002
29.0000	34.5670	5.66606	6939.08	5.66606	-0.00000
32.5000	34.5618	6.03661	7129.84	6.03660	-0.00001

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

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

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

