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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 23-Dec-17

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

COEFFICIENTS:

g = -9.672692e-001
h = 1.385014e-001
i = -4.154465e-004
j = 5.176540e-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	2652.22	0.00000	0.00000
1.0000	34.7778	2.97299	5348.34	2.97298	-0.00001
4.5000	34.7579	3.27976	5552.88	3.27977	0.00001
15.0000	34.7158	4.26059	6161.04	4.26058	-0.00000
18.5000	34.7068	4.60541	6360.89	4.60541	-0.00000
24.0000	34.6969	5.16282	6671.12	5.16283	0.00000
29.0000	34.6914	5.68416	6948.52	5.68416	-0.00000
32.5000	34.6882	6.05617	7139.67	6.05601	-0.00016

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

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

