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SENSOR SERIAL NUMBER: 0815
CALIBRATION DATE: 27-Sep-18

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

COEFFICIENTS:

g = -1.062820e+000
h = 1.473647e-001
i = 1.086580e-003
j = -6.245474e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.7510e-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	2665.77	0.00000	0.00000
1.0000	34.8029	2.97493	5165.87	2.97478	-0.00015
4.5000	34.7832	3.28191	5358.13	3.28205	0.00014
15.0000	34.7407	4.26332	5930.74	4.26349	0.00017
18.5000	34.7315	4.60833	6119.20	4.60812	-0.00021
24.0000	34.7218	5.16612	6412.84	5.16633	0.00021
28.9999	34.7163	5.68777	6675.47	5.68741	-0.00036
32.5000	34.7125	6.05993	6857.27	6.06013	0.00020

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

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

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

