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SENSOR SERIAL NUMBER: 0823
CALIBRATION DATE: 16-Oct-19

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

COEFFICIENTS:

g = -1.031254e+000
h = 1.551372e-001
i = -5.259009e-005
j = 3.069841e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7202e-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	2578.45	0.00000	0.00000
1.0000	34.7655	2.97204	5071.39	2.97205	0.00001
4.5000	34.7463	3.27877	5261.50	3.27876	-0.00001
15.0000	34.7031	4.25919	5827.17	4.25918	-0.00001
18.5000	34.6940	4.60389	6013.22	4.60390	0.00000
24.0000	34.6837	5.16108	6302.13	5.16109	0.00002
29.0000	34.6769	5.68205	6560.51	5.68204	-0.00001
32.5000	34.6712	6.05354	6738.55	6.05347	-0.00007

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

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

