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SENSOR SERIAL NUMBER: 0823
CALIBRATION DATE: 13-Dec-17

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

COEFFICIENTS:

g = -1.031119e+000
h = 1.552362e-001
i = -1.086446e-004
j = 3.522443e-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	2578.41	0.00000	0.00000
1.0000	34.8100	2.97548	5074.60	2.97550	0.00002
4.5000	34.7903	3.28251	5264.88	3.28250	-0.00002
15.0000	34.7481	4.26413	5831.17	4.26411	-0.00002
18.5000	34.7390	4.60922	6017.40	4.60922	-0.00000
24.0000	34.7289	5.16706	6306.59	5.16709	0.00003
29.0000	34.7228	5.68873	6565.23	5.68872	-0.00000
32.5000	34.7184	6.06085	6743.53	6.06084	-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

