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SENSOR SERIAL NUMBER: 0155
CALIBRATION DATE: 10-Jan-18

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.034197e+000
h = 1.307154e-001
i = -3.056271e-004
j = 3.983365e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.7445e-006

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	2818.62	0.00000	0.00000
1.0000	34.7587	2.97151	5545.75	2.97155	0.00004
4.5000	34.7393	3.27817	5753.41	3.27814	-0.00004
15.0000	34.6977	4.25860	6371.33	4.25857	-0.00003
18.5000	34.6889	4.60329	6574.49	4.60331	0.00003
24.0000	34.6797	5.16055	6889.88	5.16058	0.00003
29.0000	34.6743	5.68167	7171.85	5.68165	-0.00002
32.5001	34.6705	6.05345	7366.07	6.05318	-0.00026

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

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

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

$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$

