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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 10-Oct-19

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

COEFFICIENTS:

g = -9.668775e-001
h = 1.384161e-001
i = -3.968696e-004
j = 5.073668e-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	2652.10	0.00000	0.00000
1.0000	34.8550	2.97896	5352.40	2.97893	-0.00002
4.5000	34.8329	3.28614	5557.07	3.28616	0.00003
15.0000	34.7875	4.26845	6165.65	4.26847	0.00001
18.5000	34.7775	4.61378	6365.61	4.61376	-0.00001
24.0000	34.7669	5.17209	6676.08	5.17208	-0.00001
29.0000	34.7591	5.69400	6953.57	5.69401	0.00001
32.5000	34.7499	6.06572	7144.52	6.06577	0.00005

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

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

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

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

