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SENSOR SERIAL NUMBER: 0399
 CALIBRATION DATE: 25-Feb-20

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

COEFFICIENTS:

g = -9.887440e-001 CPcor = -9.5700e-008
 h = 1.447894e-001 CTcor = 3.2500e-006
 i = -8.112929e-004 WBOTC = 6.9909e-007
 j = 7.670820e-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	2627.77	0.00000	0.00000
1.0000	34.8250	2.97664	5272.46	2.97659	-0.00004
4.5000	34.8047	3.28374	5472.85	3.28379	0.00005
15.0000	34.7609	4.26554	6068.27	4.26554	0.00001
18.5000	34.7510	4.61064	6263.82	4.61063	-0.00001
24.0000	34.7400	5.16853	6567.29	5.16852	-0.00001
29.0000	34.7329	5.69019	6838.48	5.69021	0.00001
32.5000	34.7268	6.06215	7025.24	6.06226	0.00012

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

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = 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

