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SENSOR SERIAL NUMBER: 3252
 CALIBRATION DATE: 05-Mar-24

SBE 21 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.30378111e+000
 h = 5.07984148e-001
 i = -4.23402583e-004
 j = 4.89737815e-005

CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2.91306	0.00000	0.00000
1.0000	34.5841	2.95800	8.16872	2.95801	0.00001
4.5000	34.5652	3.26336	8.52768	3.26334	-0.00002
15.0000	34.5246	4.23960	9.58416	4.23960	0.00001
18.5000	34.5157	4.58277	9.92832	4.58278	0.00000
24.0000	34.5054	5.13746	10.46014	5.13748	0.00002
29.0000	34.4980	5.65602	10.93327	5.65599	-0.00003
32.5000	34.4907	6.02560	11.25804	6.02561	0.00002

f = Instrument Output (kHz)

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

$$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$$

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

