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SENSOR SERIAL NUMBER: 3252
 CALIBRATION DATE: 07-Feb-18

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

COEFFICIENTS:

g = -4.30976352e+000
 h = 5.09477852e-001
 i = -7.30581875e-004
 j = 6.42691492e-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	2.91300	0.00000	0.00000
1.0000	34.6766	2.96516	8.17798	2.96516	-0.00000
4.5000	34.6575	3.27121	8.53752	3.27121	-0.00001
15.0000	34.6158	4.24961	9.59546	4.24966	0.00005
18.4999	34.6069	4.59357	9.93999	4.59355	-0.00002
24.0000	34.5965	5.14953	10.47238	5.14950	-0.00003
29.0000	34.5898	5.66938	10.94614	5.66940	0.00002
32.5000	34.5850	6.04020	11.27098	6.03965	-0.00055

f = Instrument Output (kHz)

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

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

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

