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SENSOR SERIAL NUMBER: 0266
 CALIBRATION DATE: 06-Mar-21

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

COEFFICIENTS:

g = -9.82308311e+000
 h = 1.15701164e+000
 i = -2.13033249e-003
 j = 2.37527310e-004

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	2.91906	0.00000	0.00000
1.0000	34.5581	2.95599	5.84524	2.95601	0.00002
4.5000	34.5385	3.26109	6.06702	3.26107	-0.00002
15.0000	34.4979	4.23667	6.72675	4.23666	-0.00001
18.5000	34.4899	4.57972	6.94360	4.57969	-0.00003
24.0000	34.4808	5.13421	7.28028	5.13427	0.00006
29.0000	34.4767	5.65292	7.58132	5.65289	-0.00003
32.5000	34.4759	6.02331	7.78884	6.02294	-0.00037

f = Instrument Output (kHz)

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

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

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

