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SENSOR SERIAL NUMBER: 0073
 CALIBRATION DATE: 15-Feb-24

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

COEFFICIENTS:

g = -9.72112703e+000
 h = 1.07136233e+000
 i = 1.72956225e-003
 j = -7.93342165e-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	3.00594	0.00000	0.00000
1.0000	34.7018	2.96711	6.04265	2.96740	0.00029
4.5000	34.6822	3.27332	6.27252	3.27347	0.00015
15.0000	34.6402	4.25229	6.95596	4.25114	-0.00115
18.5000	34.6308	4.59641	7.18132	4.59572	-0.00069
24.0000	34.6195	5.15258	7.53282	5.15514	0.00256
29.0000	34.6116	5.67255	7.84323	5.67140	-0.00115
32.5000	34.6042	6.04317	8.05710	6.03923	-0.00394

f = Instrument Output (kHz)

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

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

Residual (Siemens/meter) = instrument conductivity - bath conductivity

