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SENSOR SERIAL NUMBER: 0349
 CALIBRATION DATE: 24-Feb-21

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

COEFFICIENTS:

g = -1.01005034e+001 CPcor = -9.5700e-008 (nominal)
 h = 1.15035804e+000 CTcor = 3.2500e-006 (nominal)
 i = -3.83952654e-003
 j = 3.58017319e-004

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	2.97384	0.00000	0.00000
0.9999	34.6231	2.96101	5.90160	2.96102	0.00001
4.5000	34.6035	3.26662	6.12423	3.26662	0.00000
15.0000	34.5635	4.24387	6.78651	4.24384	-0.00003
18.4999	34.5551	4.58743	7.00420	4.58743	-0.00000
24.0000	34.5463	5.14288	7.34217	5.14290	0.00002
29.0000	34.5417	5.66238	7.64435	5.66241	0.00002
32.5000	34.5387	6.03303	7.85260	6.03301	-0.00002

f = Instrument Output (kHz)

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

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

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

