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SENSOR SERIAL NUMBER: 0073  
 CALIBRATION DATE: 17-Apr-24

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

COEFFICIENTS:

g = -1.01615894e+001  
 h = 1.12934620e+000  
 i = -2.21304476e-003  
 j = 2.31710257e-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	3.00570	0.00000	0.00000
1.0000	34.6562	2.96358	5.94937	2.96358	-0.00000
4.5000	34.6361	3.26939	6.17339	3.26940	0.00001
15.0000	34.5929	4.24710	6.83990	4.24709	-0.00000
18.5000	34.5835	4.59081	7.05904	4.59079	-0.00002
24.0000	34.5726	5.14637	7.39930	5.14638	0.00001
29.0000	34.5648	5.66574	7.70353	5.66577	0.00002
32.4999	34.5585	6.03609	7.91311	6.03607	-0.00002

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars);  $\delta$  = CTcor;  $\epsilon$  = 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

