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SENSOR SERIAL NUMBER: 0142  
 CALIBRATION DATE: 18-Aug-20

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

COEFFICIENTS:

g = -1.02358178e+001  
 h = 1.14417338e+000  
 i = -1.79750452e-003  
 j = 2.24220348e-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	2.99541	0.00000	0.00000
1.0000	34.8306	2.97707	5.92038	2.97709	0.00001
4.5000	34.8106	3.28424	6.14292	3.28423	-0.00001
15.0000	34.7676	4.26627	6.80511	4.26626	-0.00001
18.5000	34.7583	4.61150	7.02283	4.61150	-0.00000
24.0000	34.7475	5.16952	7.36086	5.16955	0.00003
29.0000	34.7407	5.69133	7.66313	5.69132	-0.00001
32.5000	34.7336	6.06320	7.87126	6.06311	-0.00009

f = Instrument Output (kHz)

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

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

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

