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SENSOR SERIAL NUMBER: 0141
 CALIBRATION DATE: 10-May-17

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

COEFFICIENTS:

g = -9.89961187e+000
 h = 1.14103649e+000
 i = -1.86855394e-003
 j = 2.28555145e-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	2.95006	0.00000	0.00000
1.0000	34.7716	2.97251	5.90090	2.97251	0.00000
4.5000	34.7511	3.27918	6.12449	3.27918	0.00000
15.0000	34.7090	4.25984	6.78953	4.25984	-0.00000
18.5000	34.7001	4.60461	7.00811	4.60462	0.00000
24.0000	34.6906	5.16199	7.34744	5.16199	0.00000
29.0000	34.6855	5.68330	7.65088	5.68330	0.00000
32.5000	34.6830	6.05537	7.86011	6.05537	-0.00000

f = Instrument Output (kHz)

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

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

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

