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SENSOR SERIAL NUMBER: 0134
 CALIBRATION DATE: 30-Jan-19

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

COEFFICIENTS:

g = -1.00543670e+001
 h = 1.15784985e+000
 i = -2.31145395e-003
 j = 2.61331192e-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	2.95261	0.00000	0.00000
1.0000	34.7946	2.97429	5.87433	2.97429	0.00000
4.5000	34.7733	3.28107	6.09607	3.28105	-0.00001
15.0000	34.7290	4.26204	6.75580	4.26204	0.00001
18.5000	34.7175	4.60667	6.97251	4.60669	0.00002
24.0000	34.7044	5.16382	7.30895	5.16381	-0.00001
29.0000	34.6936	5.68448	7.60960	5.68445	-0.00003
32.5000	34.6832	6.05540	7.81658	6.05542	0.00002

f = Instrument Output (kHz)

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

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

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

