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SENSOR SERIAL NUMBER: 0265
 CALIBRATION DATE: 16-Feb-21

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

COEFFICIENTS:

g = -9.77699944e+000
 h = 1.12974345e+000
 i = -3.33884253e-003
 j = 3.27032952e-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	2.95096	0.00000	0.00000
1.0000	34.7720	2.97254	5.93503	2.97255	0.00001
4.4999	34.7524	3.27928	6.16079	3.27927	-0.00001
15.0000	34.7115	4.26012	6.83201	4.26010	-0.00002
18.5000	34.7030	4.60496	7.05256	4.60499	0.00003
24.0000	34.6943	5.16248	7.39480	5.16246	-0.00002
29.0000	34.6901	5.68397	7.70082	5.68397	0.00000
32.4999	34.6872	6.05601	7.91171	6.05609	0.00008

f = Instrument Output (kHz)

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

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

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

