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SENSOR SERIAL NUMBER: 0313
 CALIBRATION DATE: 27-Feb-21

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

COEFFICIENTS:

g = -1.01107545e+001 CPcor = -9.5700e-008 (nominal)
 h = 1.10041023e+000 CTcor = 3.2500e-006 (nominal)
 i = -3.23395632e-003
 j = 3.05789784e-004

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	3.04090	0.00000	0.00000
0.9999	34.6313	2.96165	6.03152	2.96163	-0.00001
4.4999	34.6119	3.26732	6.25897	3.26734	0.00001
14.9999	34.5717	4.24476	6.93557	4.24479	0.00003
18.5000	34.5634	4.58843	7.15794	4.58840	-0.00003
24.0000	34.5549	5.14402	7.50325	5.14401	-0.00001
29.0000	34.5518	5.66385	7.81215	5.66386	0.00001
32.5001	34.5483	6.03453	8.01852	6.02325	-0.01128

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

