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SENSOR SERIAL NUMBER: 0073
 CALIBRATION DATE: 29-Nov-17

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

COEFFICIENTS:

g = -9.75962449e+000
 h = 1.08426333e+000
 i = -1.78862579e-003
 j = 1.85847208e-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	3.00532	0.00000	0.00000
1.0000	34.8281	2.97688	6.04915	2.97689	0.00001
4.5000	34.8075	3.28398	6.27942	3.28397	-0.00000
15.0000	34.7648	4.26596	6.96428	4.26594	-0.00002
18.5000	34.7557	4.61120	7.18938	4.61120	0.00000
24.0000	34.7457	5.16928	7.53881	5.16930	0.00002
28.9999	34.7404	5.69127	7.85131	5.69129	0.00001
32.5000	34.7374	6.06379	8.06675	6.06377	-0.00001

f = Instrument Output (kHz)

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

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

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

