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SENSOR SERIAL NUMBER: 0414
CALIBRATION DATE: 25-Jan-22

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

COEFFICIENTS:

g = -1.00455809e+001
h = 1.10801473e+000
i = -1.77711390e-003
j = 2.09233863e-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	3.01573	0.00000	0.00000
1.0162	34.6494	2.96445	5.99360	2.96451	0.00006
4.5000	34.6292	3.26881	6.21859	3.26873	-0.00007
15.0000	34.5875	4.24650	6.89148	4.24650	-0.00001
18.5000	34.5786	4.59023	7.11268	4.59024	0.00002
24.0000	34.5687	5.14585	7.45610	5.14587	0.00002
29.0000	34.5627	5.66544	7.76318	5.66542	-0.00002
32.5000	34.5587	6.03613	7.97489	6.03615	0.00002

f = Instrument Output (kHz)

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

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

