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SENSOR SERIAL NUMBER: 0164
CALIBRATION DATE: 06-May-22

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

COEFFICIENTS:

g = -9.913245e-001
h = 1.424663e-001
i = -2.427852e-004
j = 3.708304e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 2.8395e-007

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2641.40	0.00000	0.00000
1.0001	34.7125	2.96795	5276.28	2.96788	-0.00007
4.5000	34.6930	3.27424	5476.09	3.27432	0.00009
14.9999	34.6514	4.25351	6069.89	4.25349	-0.00002
18.5000	34.6426	4.59781	6265.06	4.59780	-0.00001
24.0000	34.6334	5.15442	6568.04	5.15440	-0.00001
29.0000	34.6286	5.67503	6838.98	5.67504	0.00001
32.5000	34.6255	6.04647	7025.70	6.04647	-0.00000

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

$t = \text{temperature (°C)}$; $p = \text{pressure (decibars)}$; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

