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SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 20-Apr-18

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

COEFFICIENTS:

g = -9.778905e-001
h = 1.570633e-001
i = -2.764690e-004
j = 4.632042e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 4.6695e-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	2498.40	0.00000	0.00000
1.0000	34.7535	2.97111	5017.78	2.97109	-0.00002
4.4999	34.7341	3.27772	5208.36	3.27775	0.00002
14.9999	34.6930	4.25808	5774.84	4.25807	-0.00000
18.5000	34.6845	4.60277	5960.97	4.60276	-0.00001
24.0000	34.6755	5.15999	6249.87	5.15999	-0.00000
29.0000	34.6706	5.68113	6508.16	5.68115	0.00002
32.5000	34.6670	6.05289	6686.11	6.05289	-0.00001

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

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

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

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

