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SENSOR SERIAL NUMBER: 0045
CALIBRATION DATE: 04-Jul-23

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

COEFFICIENTS:

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g = -1.022587e+000
h =  1.485954e-001
i = -2.124788e-004
j =  3.680138e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  9.5198e-008
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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	2625.98	0.00000	0.00000
1.0000	34.5569	2.95590	5176.32	2.95586	-0.00004
4.5000	34.5373	3.26098	5370.58	3.26103	0.00005
15.0000	34.4970	4.23657	5948.50	4.23657	-0.00000
18.5000	34.4887	4.57957	6138.54	4.57957	0.00000
24.0000	34.4798	5.13407	6433.61	5.13407	-0.00001
29.0000	34.4751	5.65269	6697.55	5.65267	-0.00001
32.5000	34.4719	6.02269	6879.50	6.02270	0.00001

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

Residual (Siemens/meter) = instrument conductivity - bath conductivity