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SENSOR SERIAL NUMBER: 9431
CALIBRATION DATE: 30-Apr-25

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

COEFFICIENTS:

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g = -1.001018e+000
h =  1.313636e-001
i = -8.066200e-005
j =  2.543978e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.5091e-007
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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	2760.77	0.00000	0.00000
0.9999	34.6279	2.96138	5485.42	2.96140	0.00002
4.5000	34.6096	3.26714	5692.21	3.26712	-0.00002
14.9999	34.5730	4.24490	6307.41	4.24490	-0.00000
18.4999	34.5656	4.58868	6509.60	4.58868	0.00000
24.0000	34.5580	5.14443	6823.50	5.14443	0.00000
29.0000	34.5546	5.66426	7104.22	5.66427	0.00001
32.5000	34.5530	6.03525	7297.75	6.03524	-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