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SENSOR SERIAL NUMBER: 9163
CALIBRATION DATE: 02-Nov-19

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

COEFFICIENTS:

g = -9.845041e-001
h = 1.657594e-001
i = -4.255265e-004
j = 6.303758e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.3650e-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	2441.97	0.00000	0.00000
1.0000	34.8172	2.97603	4896.54	2.97604	0.00000
4.5000	34.7957	3.28297	5082.18	3.28297	0.00000
15.0000	34.7526	4.26463	5634.20	4.26462	-0.00000
18.5000	34.7442	4.60984	5815.60	4.60983	-0.00001
24.0000	34.7352	5.16789	6097.14	5.16791	0.00001
29.0000	34.7297	5.68973	6348.76	5.68973	0.00000
32.5000	34.7243	6.06176	6522.02	6.06176	-0.00000

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

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

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

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

