



Sea-Bird Scientific
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SENSOR SERIAL NUMBER: 0050
CALIBRATION DATE: 18-Feb-22

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.005616e+000
h = 1.382331e-001
i = -1.130397e-004
j = 2.854628e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.3500e-005

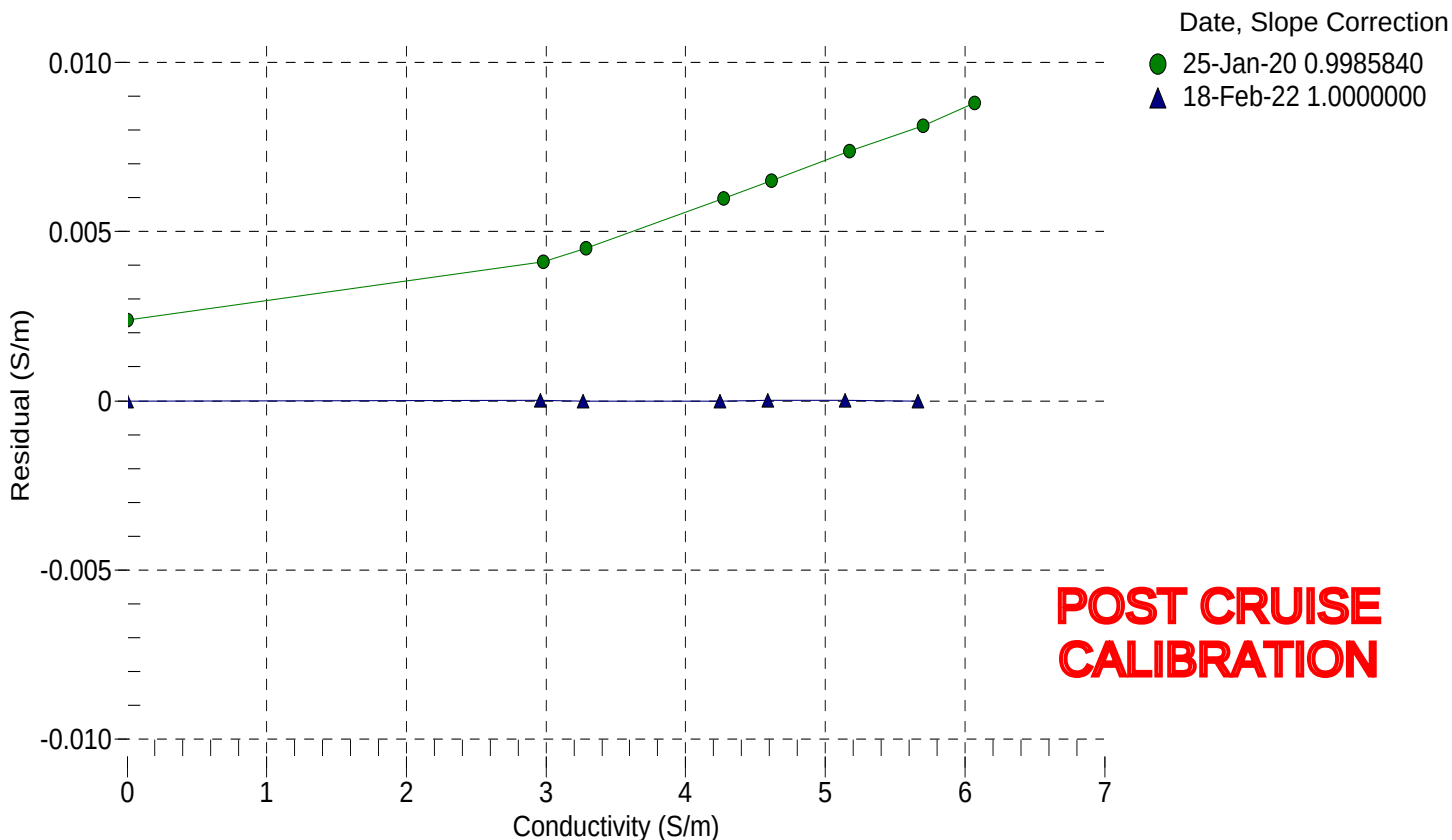
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2697.73	0.00000	0.00000
1.0000	34.6335	2.96182	5353.20	2.96184	0.00001
4.5000	34.6144	3.26755	5554.69	3.26753	-0.00002
15.0000	34.5733	4.24495	6153.98	4.24494	-0.00000
18.5000	34.5649	4.58860	6350.97	4.58861	0.00001
24.0000	34.5555	5.14410	6656.74	5.14411	0.00000
29.0000	34.5497	5.66355	6930.11	5.66354	-0.00000
32.5000	34.5455	6.03409	7118.46	6.03399	-0.00010

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

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





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SENSOR SERIAL NUMBER: 0050
CALIBRATION DATE: 02-Oct-19

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.983138e-001
h = 1.376119e-001
i = -2.936965e-004
j = 4.290716e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.3500e-005

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	2697.74	0.00000	0.00000
1.0000	34.6718	2.96479	5373.06	2.96476	-0.00003
4.5000	34.6521	3.27076	5575.83	3.27080	0.00005
15.0000	34.6097	4.24894	6178.45	4.24890	-0.00004
18.5000	34.6006	4.59283	6376.49	4.59286	0.00003
24.0000	34.5902	5.14870	6683.75	5.14870	0.00000
29.0000	34.5826	5.66833	6958.31	5.66833	-0.00000
32.5000	34.5747	6.03861	7147.30	6.03865	0.00005

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

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

