![Sea-Bird Scientific logo]

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SENSOR SERIAL NUMBER: 3200
CALIBRATION DATE: 20-Feb-19

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.5104	A = -4.5014e-003	NOMINAL DYNAMIC COEFFICIENTS	
Voffset = -0.5072	B = 2.0302e-004	D1 = 1.92634e-4	H1 = -3.300000e-2
Tau20 = 1.16	C = -3.1391e-006	D2 = -4.64803e-2	H2 = 5.00000e+3
	E nominal = 0.036		H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.16	2.00	0.00	0.744	1.16	-0.00
1.16	6.00	0.00	0.774	1.16	-0.00
1.17	12.00	0.00	0.820	1.17	-0.00
1.18	20.00	0.00	0.883	1.18	-0.00
1.20	26.00	0.00	0.937	1.20	0.00
1.21	30.00	0.00	0.975	1.22	0.00
3.96	2.00	0.00	1.315	3.96	0.00
3.97	6.00	0.00	1.418	3.97	-0.00
3.99	12.01	0.00	1.576	3.99	-0.00
3.99	20.00	0.00	1.781	4.00	0.00
4.03	26.00	0.00	1.951	4.04	0.00
4.09	30.00	0.00	2.081	4.09	-0.00
6.78	2.00	0.00	1.892	6.78	-0.00
6.83	6.00	0.00	2.076	6.83	0.00
6.89	12.03	0.00	2.353	6.89	-0.00
6.91	20.00	0.00	2.711	6.92	0.00
6.93	30.00	0.00	3.174	6.93	0.00
6.96	26.00	0.00	2.995	6.96	-0.01

V = instrument output (volts);   T = temperature (°C);   S = salinity (PSU);   K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l);   P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

Date, Slope (ml/l)
● 06-Jan-18 0.9636
▲ 20-Feb-19 1.0000

POST CRUISE
CALIBRATION

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