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SENSOR SERIAL NUMBER: 0345
CALIBRATION DATE: 05-Dec-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS: Tcor = -0.0009   NOMINAL DYNAMIC COEFFICIENTS
Soc = 0.3590   Pcor = 1.350e-04   D1 = 1.92634e-4   H1 = -3.300000e-2
Boc = 0.0000   D2 = -4.64803e-2   H2 = 5.00000e+3
Voffset = -0.6976   H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.20	20.00	0.00	1.238	1.21	0.01
1.21	12.00	0.00	1.152	1.22	0.01
1.21	26.00	0.00	1.309	1.21	0.00
1.22	6.00	0.00	1.091	1.22	0.00
1.22	30.00	0.00	1.358	1.22	-0.00
1.22	2.00	0.00	1.049	1.22	-0.01
3.98	20.00	0.00	2.483	4.00	0.02
3.98	12.00	0.00	2.197	4.01	0.03
3.99	6.00	0.00	1.984	4.00	0.01
3.99	26.00	0.00	2.707	3.99	-0.00
3.99	2.00	0.00	1.842	3.96	-0.03
4.00	30.00	0.00	2.859	3.98	-0.02
6.78	2.00	0.00	2.639	6.73	-0.05
6.82	30.01	0.00	4.378	6.78	-0.04
6.82	6.00	0.00	2.897	6.83	0.01
6.85	12.00	0.00	3.277	6.90	0.04
6.89	20.00	0.00	3.787	6.92	0.03
6.94	26.00	0.00	4.186	6.93	-0.01

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

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

Oxygen (ml/l) = (Soc * (V + Voffset)) * exp(Tcor * T) * Oxsat(T, S) * exp(Pcor * P)

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

Date, Slope (ml/l)
● 06-Apr-21 1.0028
▲ 05-Dec-23 1.0000

POST CRUISE CALIBRATION