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SENSOR SERIAL NUMBER: 3200
CALIBRATION DATE: 19-Jun-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5023
Voffset = -0.4947
Tau20 = 1.12
A = -4.3067e-003
B = 1.9546e-004
C = -3.3356e-006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
D1 = 1.92634e-4
D2 = -4.64803e-2
H1 = -3.300000e-2
H2 = 5.00000e+3
H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.15	30.00	0.00	0.947	1.15	-0.00
1.15	26.00	0.00	0.915	1.15	-0.00
1.16	20.00	0.00	0.870	1.16	-0.00
1.17	12.00	0.00	0.812	1.17	-0.00
1.18	6.00	0.00	0.770	1.18	0.00
1.19	2.00	0.00	0.741	1.19	0.00
3.79	30.00	0.00	1.985	3.79	-0.00
3.81	26.00	0.00	1.886	3.81	0.00
3.84	20.00	0.00	1.739	3.84	-0.00
3.87	12.00	0.00	1.547	3.87	0.00
3.88	6.00	0.00	1.400	3.88	0.00
3.89	2.00	0.00	1.302	3.89	0.00
6.54	30.00	0.00	3.067	6.54	-0.00
6.61	26.00	0.00	2.905	6.61	0.00
6.62	6.00	0.00	2.038	6.62	-0.00
6.63	20.00	0.00	2.643	6.63	-0.00
6.63	2.00	0.00	1.869	6.63	-0.00
6.64	12.00	0.00	2.301	6.64	-0.00

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)
Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

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

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