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SENSOR SERIAL NUMBER: 4477
 CALIBRATION DATE: 31-Oct-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.4508
 Voffset = -0.5160
 Tau20 = 1.40

A = -4.5524e-003
 B = 2.1810e-004
 C = -3.3784e-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)
1.13	2.00	0.00	0.778	1.14	0.00
1.14	12.00	0.00	0.861	1.14	0.00
1.14	6.00	0.00	0.813	1.14	-0.00
1.16	20.00	0.00	0.932	1.16	-0.00
1.17	26.00	0.00	0.986	1.17	-0.00
1.17	30.00	0.00	1.022	1.17	-0.00
3.87	2.00	0.00	1.412	3.88	0.00
3.88	6.00	0.00	1.526	3.89	0.00
3.89	12.00	0.00	1.696	3.89	-0.00
3.91	20.00	0.00	1.925	3.92	0.00
3.92	26.00	0.00	2.096	3.92	-0.00
3.94	30.00	0.00	2.219	3.93	-0.01
6.67	30.00	0.00	3.405	6.67	0.01
6.70	2.00	0.00	2.065	6.70	-0.00
6.73	6.00	0.00	2.266	6.73	-0.00
6.76	12.00	0.00	2.563	6.76	-0.00
6.82	20.00	0.00	2.971	6.82	0.00
6.83	26.00	0.00	3.265	6.82	-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)

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

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

