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SENSOR SERIAL NUMBER: 4330
CALIBRATION DATE: 06-Dec-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.3644
Voffset = -0.4789
Tau20 = 0.98
A = -2.1673e-03
B = 1.3065e-04
C = -2.0988e-06
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	6.00	0.00	0.836	1.12	-0.00
1.13	2.00	0.00	0.799	1.12	-0.00
1.13	12.00	0.00	0.894	1.13	-0.00
1.14	20.00	0.00	0.974	1.14	0.00
1.14	26.00	0.00	1.035	1.14	0.00
1.15	30.00	0.00	1.079	1.15	0.01
3.87	2.00	0.00	1.581	3.87	-0.00
3.89	6.00	0.00	1.715	3.89	0.00
3.89	12.00	0.00	1.909	3.89	-0.00
3.90	20.00	0.00	2.174	3.90	0.00
3.90	30.00	0.00	2.511	3.90	0.00
3.90	26.00	0.00	2.373	3.90	0.00
6.65	2.00	0.00	2.370	6.64	-0.00
6.67	6.00	0.00	2.600	6.68	0.00
6.72	12.00	0.00	2.951	6.72	-0.00
6.75	20.00	0.00	3.415	6.75	0.00
6.77	30.00	0.00	4.005	6.77	-0.00
6.78	26.00	0.00	3.769	6.77	-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)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

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

