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SENSOR SERIAL NUMBER: 3831
 CALIBRATION DATE: 28-Nov-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS: A = -4.9068e-003
 Soc = 0.4926 B = 2.2595e-004
 Voffset = -0.4928 C = -3.0262e-006
 Tau20 = 1.31 E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
 D1 = 1.92634e-4 H1 = -3.300000e-2
 D2 = -4.64803e-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)
1.22	26.00	0.00	0.942	1.22	0.00
1.22	20.00	0.00	0.897	1.23	0.00
1.23	30.00	0.00	0.977	1.23	0.00
1.24	12.00	0.00	0.839	1.24	-0.00
1.24	6.00	0.00	0.789	1.24	-0.00
1.25	2.00	0.00	0.757	1.25	-0.00
3.98	30.00	0.00	2.059	3.98	0.00
3.98	20.00	0.00	1.804	3.98	0.00
3.98	26.00	0.00	1.960	3.99	0.00
3.99	12.00	0.00	1.601	3.99	0.00
3.99	6.00	0.00	1.443	3.99	-0.00
3.99	2.00	0.00	1.337	3.99	-0.00
6.79	2.00	0.00	1.931	6.79	0.00
6.80	30.00	0.00	3.169	6.80	-0.00
6.83	6.00	0.00	2.120	6.83	0.00
6.90	12.00	0.00	2.410	6.90	-0.00
6.93	20.00	0.00	2.775	6.92	-0.00
6.95	26.00	0.00	3.048	6.95	-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

