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SENSOR SERIAL NUMBER: 2083
CALIBRATION DATE: 28-Sep-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5375
Voffset = -0.4972
Tau20 = 1.01
A = -4.3315e-003
B = 1.7227e-004
C = -3.0088e-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)
1.20	30.00	0.00	0.945	1.20	0.00
1.20	20.00	0.00	0.864	1.20	-0.00
1.21	26.00	0.00	0.913	1.21	-0.00
1.22	12.00	0.00	0.807	1.22	-0.00
1.22	6.00	0.00	0.763	1.22	0.00
1.23	2.00	0.00	0.735	1.23	-0.00
3.96	30.00	0.00	1.974	3.96	-0.00
3.97	26.00	0.00	1.865	3.97	0.00
3.98	12.00	0.00	1.511	3.98	0.00
3.98	20.00	0.00	1.711	3.98	-0.00
3.98	6.00	0.00	1.365	3.98	0.00
3.99	2.00	0.00	1.270	3.99	0.00
6.78	2.00	0.00	1.810	6.78	-0.00
6.80	6.00	0.00	1.981	6.80	-0.00
6.85	12.00	0.00	2.243	6.85	-0.00
6.89	30.00	0.00	3.064	6.89	-0.00
6.89	20.00	0.00	2.600	6.89	-0.00
6.91	26.00	0.00	2.880	6.92	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

