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SENSOR SERIAL NUMBER: 1638
 CALIBRATION DATE: 14-Jul-21

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS: A = -4.1617e-003
 Soc = 0.5121 B = 1.1999e-004
 Voffset = -0.5067 C = -1.6926e-006
 Tau20 = 1.07 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)
1.17	12.00	0.00	0.821	1.17	-0.00
1.17	2.00	0.00	0.745	1.17	-0.00
1.18	6.00	0.00	0.775	1.17	-0.00
1.18	20.00	0.00	0.889	1.18	-0.00
1.20	26.00	0.00	0.945	1.20	0.00
1.21	30.00	0.00	0.987	1.22	0.00
3.97	2.00	0.00	1.314	3.97	-0.00
3.98	6.00	0.00	1.419	3.98	-0.00
3.99	12.00	0.00	1.578	3.99	-0.00
4.00	20.00	0.00	1.799	4.00	0.00
4.05	26.00	0.00	1.982	4.05	0.00
4.10	30.00	0.00	2.122	4.10	0.00
6.78	2.00	0.00	1.886	6.78	0.00
6.81	6.00	0.00	2.067	6.81	-0.00
6.87	12.00	0.00	2.352	6.87	0.00
6.94	20.00	0.00	2.744	6.94	-0.00
7.00	26.00	0.00	3.061	7.00	0.00
7.08	30.00	0.00	3.293	7.08	-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

