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SENSOR SERIAL NUMBER: 4278
 CALIBRATION DATE: 31-Dec-22

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.5023
 Voffset = -0.5158
 Tau20 = 1.22

A = -4.4271e-003
 B = 1.7361e-004
 C = -2.8499e-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)
1.14	2.00	0.00	0.752	1.14	-0.00
1.14	6.00	0.00	0.782	1.14	-0.00
1.14	12.00	0.00	0.827	1.14	-0.00
1.15	20.00	0.00	0.890	1.14	-0.00
1.15	26.00	0.00	0.939	1.15	0.00
1.15	30.00	0.00	0.972	1.15	-0.00
3.86	2.00	0.00	1.316	3.86	0.00
3.86	5.83	0.00	1.413	3.86	0.00
3.86	20.00	0.00	1.778	3.87	0.00
3.86	26.00	0.00	1.938	3.86	-0.00
3.87	30.00	0.00	2.054	3.87	0.00
3.87	12.00	0.00	1.572	3.87	0.00
6.59	5.78	0.00	2.045	6.59	0.00
6.60	2.00	0.00	1.884	6.60	-0.00
6.63	30.00	0.00	3.153	6.63	-0.00
6.65	12.00	0.00	2.331	6.65	-0.00
6.67	20.00	0.00	2.695	6.67	0.00
6.69	26.00	0.00	2.978	6.69	-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

