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SENSOR SERIAL NUMBER: 2085
CALIBRATION DATE: 19-Oct-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4211
Voffset = -0.4844
Tau20 = 1.46
A = -5.0414e-003
B = 2.1735e-004
C = -3.2477e-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)
1.25	30.00	0.00	1.077	1.26	0.01
1.26	20.00	0.00	0.972	1.25	-0.01
1.26	26.00	0.00	1.035	1.26	0.00
1.26	12.00	0.00	0.894	1.26	-0.01
1.27	6.00	0.00	0.836	1.26	-0.00
1.27	2.00	0.00	0.798	1.27	-0.00
4.06	2.00	0.00	1.492	4.07	0.00
4.07	6.00	0.00	1.621	4.07	0.01
4.07	12.00	0.00	1.811	4.07	0.00
4.07	30.00	0.00	2.397	4.08	0.01
4.07	20.00	0.00	2.067	4.07	-0.00
4.07	26.00	0.00	2.266	4.08	0.01
6.98	2.00	0.00	2.213	6.98	-0.00
7.01	6.00	0.00	2.441	7.01	0.00
7.04	12.00	0.00	2.781	7.04	-0.00
7.05	30.00	0.00	3.790	7.04	-0.01
7.09	20.00	0.00	3.239	7.09	-0.01
7.11	26.00	0.00	3.587	7.11	0.01

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

