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SENSOR SERIAL NUMBER: 3840  
 CALIBRATION DATE: 22-Feb-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
 Soc = 0.5190  
 Voffset = -0.5238  
 Tau20 = 1.19

A = -2.4717e-003  
 B = 1.0576e-004  
 C = -2.0313e-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)
1.18	2.00	0.00	0.759	1.18	-0.00
1.18	12.00	0.00	0.831	1.18	-0.00
1.18	6.00	0.00	0.788	1.18	-0.00
1.19	20.00	0.00	0.892	1.19	0.00
1.19	26.00	0.00	0.940	1.19	0.00
1.20	30.00	0.00	0.976	1.20	0.00
3.88	2.03	0.00	1.300	3.88	-0.00
3.91	6.00	0.00	1.399	3.91	0.00
3.93	12.00	0.00	1.545	3.93	-0.00
3.94	20.00	0.00	1.746	3.94	0.00
3.95	26.00	0.00	1.904	3.95	0.00
3.96	30.00	0.00	2.020	3.97	0.00
6.62	2.04	0.00	1.850	6.62	0.00
6.68	6.00	0.00	2.019	6.68	-0.00
6.76	12.00	0.00	2.283	6.76	-0.00
6.83	20.00	0.00	2.641	6.83	0.00
6.83	30.00	0.00	3.098	6.83	-0.00
6.87	26.00	0.00	2.923	6.87	-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 \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

