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SENSOR SERIAL NUMBER: 0348  
 CALIBRATION DATE: 13-Feb-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:            A = -3.2619e-003  
 Soc = 0.4495                B = 1.5490e-004  
 Voffset = -0.5358         C = -2.0616e-006  
 Tau20 = 1.24                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)
1.18	2.00	0.00	0.808	1.18	-0.00
1.18	6.00	0.00	0.842	1.18	0.00
1.19	12.00	0.00	0.894	1.19	-0.00
1.20	20.00	0.00	0.962	1.19	-0.00
1.20	30.00	0.00	1.047	1.20	0.00
1.20	26.00	0.00	1.014	1.20	0.00
3.88	2.00	0.00	1.433	3.88	0.00
3.90	6.00	0.00	1.547	3.90	0.00
3.92	12.00	0.00	1.718	3.92	0.00
3.93	30.00	0.00	2.213	3.93	0.00
3.93	26.00	0.00	2.102	3.93	0.00
3.93	20.00	0.00	1.938	3.93	-0.00
6.61	2.00	0.00	2.063	6.61	-0.00
6.67	6.00	0.00	2.264	6.67	-0.00
6.75	12.00	0.00	2.567	6.75	0.00
6.78	30.01	0.00	3.425	6.77	-0.00
6.83	20.00	0.00	2.972	6.83	-0.00
6.86	26.00	0.00	3.271	6.86	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

