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SENSOR SERIAL NUMBER: 2132  
 CALIBRATION DATE: 01-Feb-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:            A = -3.2173e-003  
 Soc = 0.4538            B = 1.5245e-004  
 Voffset = -0.4950       C = -2.4715e-006  
 Tau20 = 1.25            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	2.00	0.00	0.764	1.17	0.00
1.17	12.00	0.00	0.845	1.17	-0.00
1.17	6.00	0.00	0.796	1.17	-0.00
1.18	30.00	0.00	0.996	1.17	-0.00
1.18	26.00	0.00	0.963	1.18	-0.00
1.18	20.00	0.00	0.914	1.18	0.00
3.95	2.00	0.00	1.400	3.95	0.01
3.95	6.00	0.00	1.508	3.95	-0.00
3.95	30.00	0.00	2.182	3.94	-0.01
3.96	12.00	0.00	1.677	3.96	0.00
3.96	20.00	0.00	1.901	3.97	0.00
3.97	26.00	0.00	2.071	3.96	-0.01
6.74	2.00	0.00	2.039	6.74	-0.00
6.78	6.00	0.00	2.234	6.78	-0.00
6.82	12.00	0.00	2.530	6.82	-0.00
6.83	30.00	0.00	3.419	6.84	0.01
6.87	20.00	0.00	2.934	6.88	0.01
6.89	26.00	0.00	3.232	6.88	-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 \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

