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SENSOR SERIAL NUMBER: 1875
CALIBRATION DATE: 15-Feb-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.5011	A = -3.0758e-03	
Voffset = -0.4873	B = 1.2772e-04	
Tau20 = 1.24	C = -2.0554e-06	
	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)
1.13	2.00	0.00	0.721	1.13	-0.00
1.14	6.00	0.00	0.751	1.13	-0.00
1.14	12.00	0.00	0.795	1.14	-0.00
1.14	20.00	0.00	0.855	1.14	-0.00
1.15	26.00	0.00	0.904	1.15	0.00
1.16	30.00	0.00	0.940	1.16	0.00
3.89	2.00	0.00	1.294	3.89	-0.00
3.90	6.00	0.00	1.393	3.90	0.00
3.91	12.00	0.00	1.545	3.91	0.00
3.91	20.00	0.00	1.746	3.90	-0.00
3.93	26.00	0.00	1.911	3.93	0.00
3.95	30.00	0.00	2.030	3.96	0.00
6.65	2.00	0.00	1.865	6.65	-0.00
6.68	6.00	0.00	2.039	6.68	0.00
6.73	12.00	0.00	2.309	6.73	0.00
6.77	30.00	0.00	3.124	6.76	-0.01
6.79	20.00	0.00	2.674	6.78	-0.01
6.81	26.00	0.00	2.958	6.82	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) * $(1.0 + A * T + B * T^2 + C * T^3)$ * Oxsol(T,S) * exp(E * P / K)

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

Date, Slope (ml/l)
● 15-Feb-25 1.0000

CALIBRATION AFTER MODIFICATIONS

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