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SENSOR SERIAL NUMBER: 3968
CALIBRATION DATE: 28-Dec-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.4376

Voffset = -0.5108

Tau20 = 1.07

A = -2.2267e-03

B = 1.3152e-04

C = -2.5339e-06

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)
1.13	12.00	0.00	0.858	1.13	-0.00
1.13	2.00	0.00	0.779	1.13	-0.00
1.14	6.00	0.00	0.811	1.14	-0.00
1.14	20.00	0.00	0.926	1.14	-0.00
1.15	26.00	0.00	0.980	1.15	0.00
1.15	30.00	0.00	1.018	1.15	0.00
3.89	2.00	0.00	1.433	3.89	0.00
3.90	12.00	0.00	1.707	3.90	0.00
3.90	6.00	0.00	1.543	3.90	0.00
3.91	20.00	0.00	1.933	3.91	0.00
3.91	26.00	0.00	2.109	3.92	0.00
3.93	30.00	0.00	2.239	3.93	0.00
6.67	2.00	0.00	2.092	6.67	-0.00
6.69	6.00	0.00	2.283	6.69	0.00
6.75	12.00	0.00	2.581	6.75	-0.00
6.79	20.00	0.00	2.979	6.79	-0.00
6.80	30.00	0.00	3.499	6.80	-0.00
6.84	26.00	0.00	3.303	6.84	-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 * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

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

