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SENSOR SERIAL NUMBER: 1230
CALIBRATION DATE: 19-Jun-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.5604
Voffset = -0.5185
Tau20 = 1.42

A = -4.0393e-03
B = 1.9905e-04
C = -3.1524e-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)
1.14	6.00	0.00	0.756	1.14	0.00
1.14	2.00	0.00	0.730	1.14	-0.00
1.14	12.00	0.00	0.795	1.14	-0.00
1.15	20.00	0.00	0.851	1.15	0.00
1.17	30.00	0.00	0.924	1.17	0.00
1.17	26.00	0.00	0.897	1.17	0.00
3.92	2.00	0.00	1.246	3.92	-0.00
3.92	6.00	0.00	1.337	3.92	-0.00
3.94	12.00	0.00	1.476	3.94	0.00
3.94	20.00	0.00	1.655	3.94	-0.00
3.95	26.00	0.00	1.794	3.95	0.00
3.96	30.01	0.00	1.893	3.96	0.00
6.69	2.00	0.00	1.762	6.69	-0.00
6.71	6.00	0.00	1.919	6.71	0.00
6.73	12.00	0.00	2.153	6.73	-0.00
6.79	30.04	0.00	2.873	6.78	-0.00
6.79	20.00	0.00	2.474	6.79	-0.00
6.81	26.00	0.00	2.716	6.81	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

