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SENSOR SERIAL NUMBER: 2643
CALIBRATION DATE: 13-Aug-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.5867
Voffset = -0.5266
Tau20 = 0.93

A = -2.6123e-03
B = 1.7050e-05
C = -2.0671e-07
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	0.725	1.12	-0.01
1.13	6.00	0.00	0.751	1.13	-0.00
1.13	12.00	0.00	0.790	1.13	-0.00
1.14	20.00	0.00	0.846	1.14	-0.00
1.15	26.00	0.00	0.893	1.15	0.00
1.16	30.00	0.00	0.930	1.17	0.01
3.91	20.00	0.00	1.626	3.91	-0.00
3.92	12.00	0.00	1.439	3.92	0.00
3.92	6.00	0.00	1.306	3.93	0.00
3.92	2.00	0.00	1.221	3.92	-0.00
3.93	26.00	0.00	1.785	3.94	0.01
3.93	30.00	0.00	1.891	3.94	0.01
6.72	2.00	0.00	1.716	6.72	-0.00
6.73	30.00	0.00	2.852	6.72	-0.01
6.73	6.00	0.00	1.865	6.74	0.01
6.75	12.00	0.00	2.099	6.75	-0.00
6.79	20.00	0.00	2.433	6.78	-0.00
6.79	26.00	0.00	2.695	6.79	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

