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SENSOR SERIAL NUMBER: 2712
CALIBRATION DATE: 15-Sep-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4987
Voffset = -0.5120
Tau20 = 1.17
A = -4.1987e-003
B = 1.8273e-004
C = -2.7476e-006
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)
1.21	30.00	0.00	0.986	1.21	-0.00
1.21	20.00	0.00	0.906	1.21	-0.00
1.21	26.00	0.00	0.955	1.21	-0.00
1.22	12.00	0.00	0.845	1.21	-0.00
1.22	6.00	0.00	0.798	1.22	-0.00
1.23	2.00	0.00	0.769	1.23	-0.00
3.99	30.00	0.00	2.082	3.99	0.01
4.00	20.00	0.00	1.817	4.00	-0.00
4.01	26.00	0.00	1.979	4.01	0.01
4.01	6.00	0.00	1.453	4.01	0.00
4.01	12.00	0.00	1.610	4.01	0.00
4.01	2.00	0.00	1.350	4.01	0.00
6.82	2.00	0.00	1.935	6.81	-0.00
6.84	6.00	0.00	2.118	6.84	0.00
6.88	12.00	0.00	2.396	6.88	-0.00
6.90	30.00	0.00	3.221	6.89	-0.01
6.92	20.00	0.00	2.765	6.91	-0.01
6.97	26.00	0.00	3.062	6.98	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

