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SENSOR SERIAL NUMBER: 2040
CALIBRATION DATE: 19-Jul-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4741
Voffset = -0.5050
Tau20 = 1.42
A = -4.6371e-003
B = 2.6007e-004
C = -3.8564e-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	20.00	0.00	0.916	1.21	0.00
1.22	26.00	0.00	0.964	1.22	0.00
1.22	30.00	0.00	0.997	1.22	0.00
1.23	6.00	0.00	0.807	1.22	-0.00
1.23	12.00	0.00	0.856	1.22	-0.00
1.23	2.00	0.00	0.775	1.23	-0.00
4.01	6.00	0.00	1.495	4.01	0.00
4.01	2.00	0.00	1.387	4.01	0.00
4.02	12.00	0.00	1.657	4.01	-0.00
4.02	20.00	0.00	1.866	4.03	0.00
4.03	30.00	0.00	2.127	4.03	-0.00
4.03	26.00	0.00	2.022	4.03	0.00
6.81	2.00	0.00	2.002	6.81	-0.00
6.84	6.00	0.00	2.195	6.84	0.00
6.93	12.00	0.00	2.492	6.93	0.00
6.97	20.00	0.00	2.860	6.97	-0.00
7.02	30.00	0.00	3.332	7.02	-0.00
7.04	26.00	0.00	3.154	7.04	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

