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SENSOR SERIAL NUMBER: 2040
CALIBRATION DATE: 14-Sep-21

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4828
Voffset = -0.4978
Tau20 = 1.41
A = -4.3449e-003
B = 1.7499e-004
C = -1.8093e-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)
1.16	2.00	0.00	0.749	1.16	0.00
1.17	6.00	0.00	0.781	1.17	0.00
1.17	12.00	0.00	0.829	1.17	-0.00
1.19	20.00	0.00	0.895	1.18	-0.00
1.20	26.00	0.00	0.947	1.20	-0.00
1.21	30.00	0.00	0.980	1.21	-0.00
3.99	2.00	0.00	1.358	3.99	-0.00
4.00	6.00	0.00	1.468	4.00	0.00
4.01	12.00	0.00	1.633	4.01	-0.00
4.05	20.00	0.00	1.858	4.05	0.00
4.07	26.00	0.00	2.026	4.08	0.00
4.08	30.00	0.00	2.131	4.08	0.00
6.83	2.00	0.00	1.971	6.83	-0.00
6.84	6.00	0.00	2.159	6.84	0.00
6.93	12.00	0.00	2.459	6.93	0.00
7.01	30.00	0.00	3.302	7.01	-0.00
7.02	20.00	0.00	2.857	7.02	-0.00
7.08	26.00	0.00	3.151	7.08	-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

