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SENSOR SERIAL NUMBER: 1348
CALIBRATION DATE: 18-Aug-21

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.3292
Voffset = -0.5159
Tau20 = 1.03
A = -4.2685e-003
B = 2.4287e-004
C = -3.2504e-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)
1.14	2.00	0.00	0.877	1.14	-0.00
1.15	6.00	0.00	0.922	1.14	-0.00
1.15	12.00	0.00	0.990	1.15	-0.00
1.16	20.00	0.00	1.079	1.16	0.00
1.17	26.00	0.00	1.143	1.17	0.00
1.17	30.00	0.00	1.188	1.17	0.00
3.93	2.00	0.00	1.759	3.93	0.00
3.93	6.00	0.00	1.912	3.93	-0.00
3.93	12.00	0.00	2.136	3.93	-0.00
3.95	20.00	0.00	2.429	3.95	-0.00
3.96	26.00	0.00	2.646	3.96	0.00
3.97	30.00	0.00	2.793	3.98	0.01
6.75	2.00	0.00	2.651	6.75	0.00
6.76	6.00	0.00	2.914	6.76	-0.00
6.81	12.00	0.00	3.322	6.81	0.00
6.85	30.00	0.00	4.438	6.85	-0.00
6.86	20.00	0.00	3.839	6.86	-0.00
6.86	26.00	0.00	4.202	6.86	-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

