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SENSOR SERIAL NUMBER: 1348
CALIBRATION DATE: 13-Feb-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.3308
Voffset = -0.5130
Tau20 = 1.04
A = -3.5468e-003
B = 2.2431e-004
C = -3.0700e-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)
1.12	2.00	0.00	0.863	1.11	-0.00
1.12	6.00	0.00	0.907	1.12	0.00
1.12	12.00	0.00	0.969	1.12	-0.00
1.13	20.00	0.00	1.054	1.13	-0.00
1.14	26.00	0.00	1.118	1.14	0.00
1.15	30.00	0.00	1.163	1.15	0.00
3.84	2.00	0.00	1.721	3.84	-0.00
3.85	6.00	0.00	1.868	3.85	0.00
3.85	12.00	0.00	2.081	3.85	-0.00
3.86	20.00	0.00	2.355	3.85	-0.00
3.86	26.00	0.00	2.559	3.86	0.00
3.87	30.00	0.00	2.698	3.87	-0.00
6.60	2.00	0.00	2.587	6.60	-0.00
6.61	6.00	0.00	2.841	6.62	0.00
6.65	12.00	0.00	3.218	6.64	-0.00
6.71	20.00	0.00	3.719	6.71	0.00
6.72	30.00	0.00	4.307	6.72	-0.00
6.75	26.00	0.00	4.088	6.75	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

