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SENSOR SERIAL NUMBER: 3200
CALIBRATION DATE: 21-Dec-19

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5040
Voffset = -0.4978
Tau20 = 1.06
A = -3.2552e-003
B = 1.3609e-004
C = -1.9882e-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)
1.17	2.00	0.00	0.738	1.16	-0.01
1.17	6.00	0.00	0.768	1.17	-0.00
1.17	12.00	0.00	0.813	1.17	-0.00
1.19	20.00	0.00	0.879	1.19	0.00
1.20	26.00	0.00	0.930	1.20	0.00
1.20	30.00	0.00	0.965	1.21	0.01
3.98	2.00	0.00	1.318	3.98	-0.00
3.99	6.00	0.00	1.421	3.99	0.00
4.01	12.00	0.00	1.578	4.01	-0.00
4.03	20.00	0.00	1.789	4.03	0.00
4.04	26.00	0.00	1.951	4.04	0.00
4.06	30.00	0.00	2.066	4.06	0.00
6.82	2.00	0.00	1.904	6.82	-0.00
6.86	6.00	0.00	2.085	6.86	0.00
6.92	12.01	0.00	2.361	6.92	-0.00
6.98	30.00	0.00	3.192	6.97	-0.00
6.99	20.00	0.00	2.737	6.99	-0.00
7.02	26.00	0.00	3.023	7.02	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

