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SENSOR SERIAL NUMBER: 0684
CALIBRATION DATE: 30-Dec-17

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4179
Voffset = -0.5021
Tau20 = 1.28
A = -4.7662e-003
B = 2.6078e-004
C = -3.8663e-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)
1.10	2.00	0.00	0.778	1.10	0.00
1.11	6.00	0.00	0.812	1.11	-0.00
1.13	12.00	0.00	0.870	1.13	-0.00
1.13	20.00	0.00	0.937	1.13	0.00
1.14	26.00	0.00	0.989	1.14	-0.00
1.15	30.00	0.00	1.027	1.15	-0.00
3.85	6.00	0.00	1.582	3.85	0.00
3.85	2.00	0.00	1.463	3.85	0.00
3.90	12.00	0.00	1.773	3.90	-0.00
3.90	20.00	0.00	2.003	3.90	-0.00
3.92	26.00	0.00	2.180	3.92	0.00
3.94	30.00	0.00	2.305	3.94	-0.00
6.63	2.00	0.00	2.156	6.63	-0.00
6.64	6.00	0.00	2.364	6.64	-0.00
6.66	12.00	0.00	2.672	6.66	0.00
6.66	20.00	0.00	3.065	6.66	0.00
6.74	26.00	0.00	3.389	6.74	-0.00
6.76	30.00	0.00	3.601	6.76	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

