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SENSOR SERIAL NUMBER: 0904
CALIBRATION DATE: 15-Dec-17

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4661
Voffset = -0.4778
Tau20 = 1.18
A = -3.9780e-003
B = 2.0665e-004
C = -2.8401e-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)
1.15	2.00	0.00	0.735	1.15	-0.00
1.15	12.00	0.00	0.814	1.15	-0.00
1.16	6.00	0.00	0.767	1.15	-0.00
1.16	20.00	0.00	0.876	1.16	-0.00
1.17	26.00	0.00	0.924	1.16	-0.00
1.17	30.00	0.00	0.957	1.17	-0.00
3.91	2.00	0.00	1.352	3.92	0.01
3.91	6.00	0.00	1.458	3.91	0.00
3.92	12.00	0.00	1.620	3.92	0.01
3.92	20.00	0.00	1.829	3.93	0.00
3.95	26.00	0.00	1.990	3.95	0.00
3.97	30.00	0.00	2.102	3.96	-0.00
6.70	2.00	0.00	1.973	6.69	-0.00
6.72	6.00	0.00	2.162	6.72	-0.00
6.78	12.00	0.00	2.450	6.77	-0.00
6.81	20.00	0.00	2.819	6.81	-0.00
6.84	30.00	0.00	3.279	6.84	0.00
6.88	26.00	0.00	3.116	6.89	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

