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SENSOR SERIAL NUMBER: 2100
CALIBRATION DATE: 28-Jan-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4082
Voffset = -0.6783
Tau20 = 1.43
A = -4.6247e-003
B = 1.5311e-004
C = -2.2736e-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	0.960	1.10	0.00
1.10	6.00	0.00	0.996	1.11	0.00
1.11	20.00	0.00	1.129	1.11	-0.00
1.12	12.00	0.00	1.056	1.12	-0.00
1.12	26.00	0.00	1.192	1.12	-0.00
1.13	30.00	0.00	1.234	1.12	-0.00
3.82	2.00	0.00	1.654	3.82	0.00
3.82	6.00	0.00	1.779	3.82	0.00
3.82	12.00	0.00	1.969	3.83	0.00
3.83	26.00	0.00	2.429	3.83	-0.00
3.83	20.00	0.00	2.228	3.83	-0.00
3.83	30.00	0.00	2.570	3.83	-0.00
6.56	2.00	0.00	2.353	6.56	-0.00
6.58	6.00	0.00	2.570	6.57	-0.00
6.61	30.00	0.00	3.942	6.61	-0.00
6.61	12.00	0.00	2.910	6.61	-0.00
6.65	20.00	0.00	3.369	6.64	-0.00
6.65	26.00	0.00	3.720	6.65	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

