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SENSOR SERIAL NUMBER: 0604
CALIBRATION DATE: 23-Feb-21

SBE 43I OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 1.7629e-004
Foffset = -3438.78
Tau20 = 5.17

A = -2.3623e-003

B = 1.2791e-004

C = -2.3268e-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 OX (ml/l)	BATH TEMP (° C)	BATH SAL (PSU)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.10	2.00	0.00	4083.39	1.10	-0.00
1.11	6.00	0.00	4165.25	1.10	-0.00
1.11	12.00	0.00	4286.93	1.11	-0.00
1.13	20.00	0.00	4463.67	1.13	-0.00
1.15	26.00	0.00	4610.21	1.15	-0.00
1.17	30.00	0.00	4717.36	1.17	0.00
3.88	2.00	0.00	5724.46	3.88	0.00
3.89	6.00	0.00	5999.65	3.89	0.00
3.91	12.00	0.00	6422.27	3.91	0.00
3.93	20.00	0.00	7000.45	3.94	0.00
3.98	26.00	0.00	7481.04	3.98	0.00
4.01	30.00	0.00	7826.95	4.02	0.00
6.75	2.00	0.00	7413.41	6.75	-0.00
6.77	6.00	0.00	7895.31	6.77	0.00
6.83	12.00	0.00	8649.11	6.83	-0.00
6.89	20.00	0.00	9669.86	6.89	-0.00
6.91	30.00	0.00	10981.96	6.90	-0.00
6.92	26.00	0.00	10468.68	6.92	0.00

F = instrument output (Hz); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (F + Foffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

