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SENSOR SERIAL NUMBER: 3233
CALIBRATION DATE: 13-May-22

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 3.3395e-004 (adj)

Foffset = -828.96

Tau20 = 1.37

A = -5.1884e-003

B = 1.8386e-004

C = -2.6288e-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)
1.16	6.00	0.00	1249.103	1.16	-0.00
1.16	12.00	0.00	1322.982	1.16	0.00
1.16	2.00	0.00	1202.102	1.16	0.00
1.17	20.00	0.00	1423.170	1.17	-0.00
1.17	30.00	0.00	1555.962	1.17	0.00
1.17	26.00	0.00	1501.387	1.17	-0.00
3.93	2.00	0.00	2089.225	3.93	-0.00
3.93	6.00	0.00	2254.594	3.93	0.00
3.94	12.00	0.00	2502.509	3.94	-0.00
3.95	30.00	0.00	3278.686	3.95	0.01
3.95	20.00	0.00	2840.562	3.95	-0.00
3.95	26.00	0.00	3101.811	3.96	0.00
6.71	2.00	0.00	2982.400	6.71	-0.00
6.72	6.00	0.00	3265.437	6.72	0.00
6.79	12.00	0.00	3714.826	6.79	0.00
6.80	30.00	0.00	5039.850	6.80	-0.01
6.82	20.00	0.00	4303.110	6.82	-0.00
6.83	26.00	0.00	4753.908	6.83	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

