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SENSOR SERIAL NUMBER: 0212
CALIBRATION DATE: 26-Nov-20

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 2.7438e-004
Foffset = -795.63
Tau20 = 1.09

A = -4.5878e-003

B = 2.1026e-004

C = -3.3257e-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)
1.07	2.00	0.00	1200.016	1.06	-0.00
1.07	6.00	0.00	1253.819	1.07	-0.00
1.08	12.00	0.00	1333.581	1.08	-0.00
1.10	20.00	0.00	1446.759	1.10	-0.00
1.11	26.00	0.00	1532.122	1.11	0.00
1.11	30.00	0.00	1590.200	1.11	0.00
3.77	30.00	0.00	3499.668	3.77	0.00
3.78	2.00	0.00	2233.259	3.79	0.00
3.79	6.00	0.00	2416.100	3.79	-0.00
3.80	12.00	0.00	2688.831	3.80	0.00
3.80	20.00	0.00	3051.806	3.80	-0.00
3.81	26.00	0.00	3333.997	3.81	0.00
6.55	30.00	0.00	5483.920	6.54	-0.00
6.55	2.00	0.00	3282.323	6.55	-0.00
6.57	6.00	0.00	3601.688	6.57	0.00
6.61	12.00	0.00	4092.145	6.61	-0.00
6.64	20.00	0.00	4733.559	6.64	-0.00
6.69	26.00	0.00	5249.940	6.69	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

