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SENSOR SERIAL NUMBER: 0212
CALIBRATION DATE: 10-Oct-20

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 2.9212e-004
Foffset = -793.96
Tau20 = 2.83

A = -3.9639e-003

B = 1.9100e-004

C = -2.9071e-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)
1.06	2.00	0.00	1173.890	1.07	0.00
1.07	6.00	0.00	1222.612	1.07	0.00
1.08	12.00	0.00	1294.794	1.08	0.00
1.09	20.00	0.00	1398.283	1.09	-0.00
1.11	26.00	0.00	1478.226	1.11	-0.00
1.11	30.00	0.00	1531.463	1.11	-0.00
3.78	2.00	0.00	2141.148	3.78	0.00
3.78	12.00	0.00	2555.249	3.78	-0.00
3.79	6.00	0.00	2308.898	3.79	0.00
3.80	26.00	0.00	3142.560	3.80	-0.00
3.80	20.00	0.00	2894.323	3.80	-0.00
3.83	30.00	0.00	3333.704	3.82	-0.00
6.53	2.00	0.00	3120.934	6.53	-0.00
6.55	6.00	0.00	3417.289	6.56	0.00
6.59	12.00	0.00	3861.426	6.59	-0.00
6.62	30.00	0.00	5188.048	6.62	-0.00
6.64	20.00	0.00	4460.190	6.64	-0.00
6.66	26.00	0.00	4918.685	6.67	0.01

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

