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SENSOR SERIAL NUMBER: 2940
CALIBRATION DATE: 05-Dec-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4243
Voffset = -0.5205
Tau20 = 1.15
A = -4.1453e-003
B = 2.3336e-004
C = -3.3623e-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)
1.07	2.00	0.00	0.784	1.07	-0.00
1.08	6.00	0.00	0.817	1.08	-0.00
1.09	12.00	0.00	0.869	1.09	-0.00
1.11	20.00	0.00	0.938	1.11	-0.00
1.11	30.00	0.00	1.018	1.11	0.00
1.12	26.00	0.00	0.989	1.12	0.00
3.80	2.00	0.00	1.452	3.80	0.00
3.80	6.00	0.00	1.568	3.80	-0.00
3.81	30.00	0.00	2.225	3.81	0.00
3.82	12.00	0.00	1.743	3.83	0.00
3.84	20.00	0.00	1.966	3.84	0.00
3.84	26.00	0.00	2.131	3.84	0.00
6.56	6.00	0.00	2.326	6.56	-0.00
6.59	2.00	0.00	2.139	6.59	-0.00
6.66	12.00	0.00	2.649	6.66	0.00
6.68	30.00	0.00	3.511	6.68	-0.00
6.70	20.00	0.00	3.043	6.70	-0.00
6.70	26.00	0.00	3.328	6.70	-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

