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SENSOR SERIAL NUMBER: 0712
 CALIBRATION DATE: 25-Jan-19

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.4999
 Voffset = -0.5218
 Tau20 = 1.11
 A = -4.2111e-003
 B = 2.0237e-004
 C = -2.9710e-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)
1.15	2.00	0.00	0.761	1.15	-0.00
1.15	6.00	0.00	0.791	1.15	-0.00
1.16	12.00	0.00	0.838	1.16	-0.00
1.18	20.00	0.00	0.901	1.17	-0.00
1.19	26.00	0.00	0.951	1.19	-0.00
1.21	30.00	0.00	0.990	1.21	-0.00
3.95	2.00	0.00	1.344	3.95	0.00
3.96	6.00	0.00	1.449	3.96	0.01
3.98	12.00	0.00	1.606	3.98	0.00
4.02	20.00	0.00	1.822	4.02	0.01
4.04	26.00	0.00	1.982	4.04	-0.00
4.08	30.01	0.00	2.106	4.08	0.00
6.77	2.00	0.00	1.931	6.77	-0.00
6.78	6.00	0.00	2.107	6.78	-0.00
6.86	12.02	0.00	2.391	6.86	-0.00
6.93	20.00	0.00	2.761	6.93	-0.00
6.96	30.03	0.00	3.220	6.96	-0.00
6.97	26.00	0.00	3.042	6.97	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

