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SENSOR SERIAL NUMBER: 0113
CALIBRATION DATE: 25-Jan-19

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.4737

Voffset = -0.4977

Tau20 = 1.53

A = -3.9389e-003

B = 1.9794e-004

C = -3.0160e-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	0.750	1.15	-0.00
1.15	6.00	0.00	0.781	1.15	-0.00
1.16	12.00	0.00	0.830	1.16	-0.00
1.18	20.00	0.00	0.897	1.18	-0.00
1.19	26.00	0.00	0.950	1.19	0.00
1.21	30.00	0.00	0.992	1.21	0.00
3.95	2.00	0.00	1.365	3.95	0.00
3.96	6.00	0.00	1.474	3.96	0.00
3.98	12.00	0.00	1.638	3.98	0.00
4.02	20.00	0.00	1.864	4.02	0.00
4.04	26.00	0.00	2.033	4.04	-0.00
4.08	30.01	0.00	2.164	4.08	0.00
6.77	2.00	0.00	1.984	6.77	-0.00
6.78	6.00	0.00	2.169	6.78	0.00
6.86	12.02	0.00	2.466	6.86	-0.00
6.93	20.00	0.00	2.853	6.93	-0.00
6.96	30.03	0.00	3.336	6.95	-0.00
6.97	26.00	0.00	3.149	6.98	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

