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SENSOR SERIAL NUMBER: 1876
CALIBRATION DATE: 17-Dec-19

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.5071
Voffset = -0.4900
Tau20 = 1.57
A = -3.1966e-003
B = 1.3846e-004
C = -1.6479e-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)
1.16	6.00	0.00	0.756	1.16	-0.00
1.16	12.00	0.00	0.799	1.16	-0.00
1.16	2.00	0.00	0.727	1.16	-0.01
1.17	20.00	0.00	0.861	1.17	-0.00
1.18	26.00	0.00	0.911	1.19	0.01
1.18	30.00	0.00	0.940	1.19	0.00
3.93	2.00	0.00	1.296	3.93	0.00
3.94	6.00	0.00	1.396	3.94	0.00
3.96	12.00	0.00	1.548	3.96	-0.00
3.97	30.00	0.00	1.998	3.98	0.01
3.97	26.00	0.00	1.899	3.98	0.01
3.97	20.00	0.00	1.749	3.97	-0.00
6.73	2.00	0.00	1.870	6.73	-0.00
6.78	6.00	0.00	2.047	6.78	0.00
6.85	12.00	0.00	2.320	6.85	0.00
6.87	26.00	0.00	2.921	6.87	0.00
6.87	30.00	0.00	3.088	6.86	-0.01
6.90	20.00	0.00	2.675	6.90	-0.01

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

$$\text{Oxygen (ml/l)} = \text{Soc} * (V + \text{Voffset}) * (1.0 + A * T + B * T^2 + C * T^3) * \text{Oxsol}(T,S) * \exp(E * P / K)$$

Residual (ml/l) = instrument oxygen - bath oxygen