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SENSOR SERIAL NUMBER: 3200  
CALIBRATION DATE: 06-Jan-18

# SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
Soc = 0.4900  
Voffset = -0.4997  
Tau20 = 1.11  
A = -4.1940e-003  
B = 1.7927e-004  
C = -2.8351e-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	0.776	1.16	0.00
1.16	2.00	0.00	0.746	1.16	0.00
1.16	12.00	0.00	0.823	1.16	-0.00
1.18	20.00	0.00	0.891	1.18	0.00
1.19	26.00	0.00	0.944	1.19	0.00
1.19	30.00	0.00	0.980	1.19	0.00
3.94	6.00	0.00	1.441	3.94	0.00
3.94	2.00	0.00	1.337	3.94	-0.00
3.95	12.00	0.00	1.600	3.95	-0.00
3.98	20.00	0.00	1.821	3.98	-0.00
4.00	26.00	0.00	1.991	3.99	-0.00
4.03	30.00	0.00	2.122	4.03	-0.00
6.77	2.00	0.00	1.938	6.77	-0.00
6.79	6.00	0.00	2.121	6.79	0.00
6.83	30.00	0.00	3.248	6.83	0.00
6.85	12.00	0.00	2.410	6.85	0.00
6.90	20.00	0.00	2.795	6.91	0.00
6.93	26.00	0.00	3.087	6.93	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 \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

