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SENSOR SERIAL NUMBER: 0904  
CALIBRATION DATE: 20-Feb-19

# SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
Soc = 0.5445  
Voffset = -0.4869  
Tau20 = 1.42  
A = -6.1811e-003  
B = 2.4811e-004  
C = -3.3318e-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	2.00	0.00	0.709	1.16	-0.00
1.16	6.00	0.00	0.738	1.16	-0.00
1.17	12.00	0.00	0.784	1.17	-0.00
1.18	20.00	0.00	0.845	1.18	-0.00
1.20	26.00	0.00	0.896	1.20	0.00
1.21	30.00	0.00	0.933	1.22	0.00
3.96	2.00	0.00	1.248	3.96	0.01
3.97	6.00	0.00	1.349	3.97	0.00
3.99	12.01	0.00	1.505	4.00	0.00
3.99	20.00	0.00	1.703	4.00	0.00
4.03	26.00	0.00	1.863	4.04	0.00
4.09	30.00	0.00	1.987	4.09	0.00
6.78	2.00	0.00	1.788	6.78	-0.00
6.83	6.00	0.00	1.969	6.83	-0.00
6.89	12.03	0.00	2.243	6.89	-0.00
6.91	20.00	0.00	2.590	6.91	-0.00
6.93	30.00	0.00	3.026	6.93	-0.00
6.96	26.00	0.00	2.861	6.96	-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

