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SENSOR SERIAL NUMBER: 1974  
 CALIBRATION DATE: 26-Feb-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
 Soc = 0.4176  
 Voffset = -0.7291  
 Tau20 = 1.46

A = -5.1945e-003  
 B = 2.1544e-004  
 C = -3.2069e-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)
1.12	2.00	0.00	1.010	1.12	0.00
1.12	6.00	0.00	1.046	1.12	0.00
1.13	12.00	0.00	1.100	1.13	-0.00
1.13	20.00	0.00	1.175	1.13	-0.00
1.14	26.00	0.00	1.233	1.14	-0.00
1.15	30.00	0.00	1.277	1.15	-0.00
3.87	2.00	0.00	1.696	3.87	0.00
3.87	6.00	0.00	1.821	3.87	0.00
3.87	12.00	0.00	2.007	3.88	0.00
3.89	26.00	0.00	2.446	3.88	-0.00
3.89	20.00	0.00	2.261	3.89	0.00
3.91	30.00	0.00	2.589	3.91	-0.00
6.64	2.00	0.00	2.389	6.64	-0.00
6.66	5.97	0.00	2.605	6.66	0.00
6.71	12.00	0.00	2.942	6.71	-0.00
6.75	26.00	0.00	3.712	6.75	0.00
6.75	20.00	0.00	3.386	6.75	0.00
6.75	30.00	0.00	3.943	6.75	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

