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SENSOR SERIAL NUMBER: 0670  
 CALIBRATION DATE: 05-Mar-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
 Soc = 0.4622  
 Voffset = -0.5071  
 Tau20 = 1.47

A = -3.6207e-003  
 B = 1.7257e-004  
 C = -2.6598e-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)
1.19	6.00	0.00	0.807	1.19	-0.00
1.19	12.00	0.00	0.857	1.19	-0.00
1.19	2.00	0.00	0.775	1.19	-0.00
1.19	20.00	0.00	0.924	1.19	0.00
1.20	30.00	0.00	1.011	1.20	0.00
1.20	26.00	0.00	0.978	1.20	0.00
3.89	2.00	0.00	1.382	3.89	0.00
3.91	6.00	0.00	1.495	3.91	-0.00
3.94	12.00	0.00	1.666	3.95	0.00
3.95	30.00	0.00	2.167	3.96	0.00
3.96	20.00	0.00	1.887	3.96	-0.00
3.96	26.00	0.00	2.054	3.96	0.00
6.66	2.01	0.00	2.007	6.66	-0.00
6.74	6.00	0.00	2.210	6.75	0.00
6.82	30.00	0.00	3.368	6.82	-0.00
6.83	12.00	0.00	2.512	6.83	-0.00
6.90	20.00	0.00	2.913	6.90	0.00
6.94	26.00	0.00	3.216	6.94	-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

