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SENSOR SERIAL NUMBER: 2945
 CALIBRATION DATE: 15-Dec-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.5550
 Voffset = -0.4828
 Tau20 = 3.15

A = -4.8666e-003
 B = 2.0895e-004
 C = -3.1726e-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)
1.21	26.00	0.00	0.884	1.21	0.00
1.21	30.00	0.00	0.916	1.22	0.00
1.21	20.00	0.00	0.841	1.22	0.00
1.21	12.00	0.00	0.783	1.21	-0.00
1.22	6.00	0.00	0.741	1.22	-0.00
1.23	2.00	0.00	0.713	1.23	-0.00
4.00	20.00	0.00	1.662	4.00	0.00
4.00	26.00	0.00	1.809	4.01	0.00
4.00	2.00	0.00	1.235	4.00	-0.00
4.01	12.00	0.00	1.473	4.01	0.00
4.01	6.00	0.00	1.330	4.00	-0.00
4.02	30.00	0.00	1.916	4.02	-0.00
6.80	2.00	0.00	1.762	6.81	0.00
6.83	6.00	0.00	1.929	6.83	0.00
6.87	12.00	0.00	2.180	6.87	-0.00
6.89	26.00	0.00	2.760	6.88	-0.01
6.90	20.00	0.00	2.517	6.90	0.00
6.95	30.00	0.00	2.957	6.95	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 * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

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

