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SENSOR SERIAL NUMBER: 1266
CALIBRATION DATE: 05-Jan-23

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4522
Voffset = -0.5259
Tau20 = 1.38
A = -4.0661e-003
B = 2.0568e-004
C = -3.2949e-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)
1.14	2.00	0.00	0.788	1.14	0.00
1.14	12.00	0.00	0.869	1.14	-0.00
1.14	6.00	0.00	0.821	1.14	-0.00
1.14	20.00	0.00	0.934	1.14	-0.00
1.15	26.00	0.00	0.984	1.15	-0.00
1.15	30.00	0.00	1.019	1.15	-0.00
3.85	2.00	0.00	1.412	3.85	-0.00
3.85	6.00	0.00	1.522	3.85	0.00
3.86	26.00	0.00	2.067	3.86	-0.00
3.86	20.00	0.00	1.903	3.86	0.00
3.86	12.00	0.00	1.686	3.86	-0.00
3.87	30.00	0.00	2.187	3.87	0.00
6.59	2.00	0.00	2.042	6.58	-0.00
6.60	6.00	0.00	2.232	6.60	0.00
6.61	12.00	0.00	2.514	6.61	-0.00
6.64	30.00	0.00	3.376	6.64	-0.00
6.67	20.00	0.00	2.904	6.67	0.00
6.68	26.00	0.00	3.194	6.68	-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

