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SENSOR SERIAL NUMBER: 4625
CALIBRATION DATE: 14-Nov-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.3978
Voffset = -0.5231
Tau20 = 1.66
A = -3.2822e-03
B = 2.0401e-04
C = -3.2268e-06
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)
1.11	2.00	0.00	0.813	1.11	0.00
1.11	6.00	0.00	0.847	1.11	0.00
1.12	12.00	0.00	0.902	1.12	-0.00
1.13	20.00	0.00	0.974	1.13	-0.00
1.14	26.00	0.00	1.028	1.14	-0.00
1.14	30.00	0.00	1.063	1.13	-0.00
3.88	6.00	0.00	1.656	3.87	-0.00
3.89	12.00	0.00	1.840	3.89	0.00
3.89	2.00	0.00	1.540	3.89	0.01
3.89	30.00	0.00	2.378	3.90	0.00
3.90	26.00	0.00	2.254	3.89	-0.00
3.90	20.00	0.00	2.080	3.90	-0.00
6.67	30.00	0.00	3.698	6.67	0.00
6.69	6.00	0.00	2.478	6.69	-0.01
6.69	2.00	0.00	2.271	6.69	-0.00
6.69	26.00	0.00	3.499	6.69	0.00
6.71	12.00	0.00	2.797	6.71	0.00
6.72	20.00	0.00	3.202	6.71	-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)

$$\text{Oxygen (ml/l)} = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * Oxsol(T,S) * \exp(E * P / K)$$

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