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SENSOR SERIAL NUMBER: 4640
CALIBRATION DATE: 09-May-26

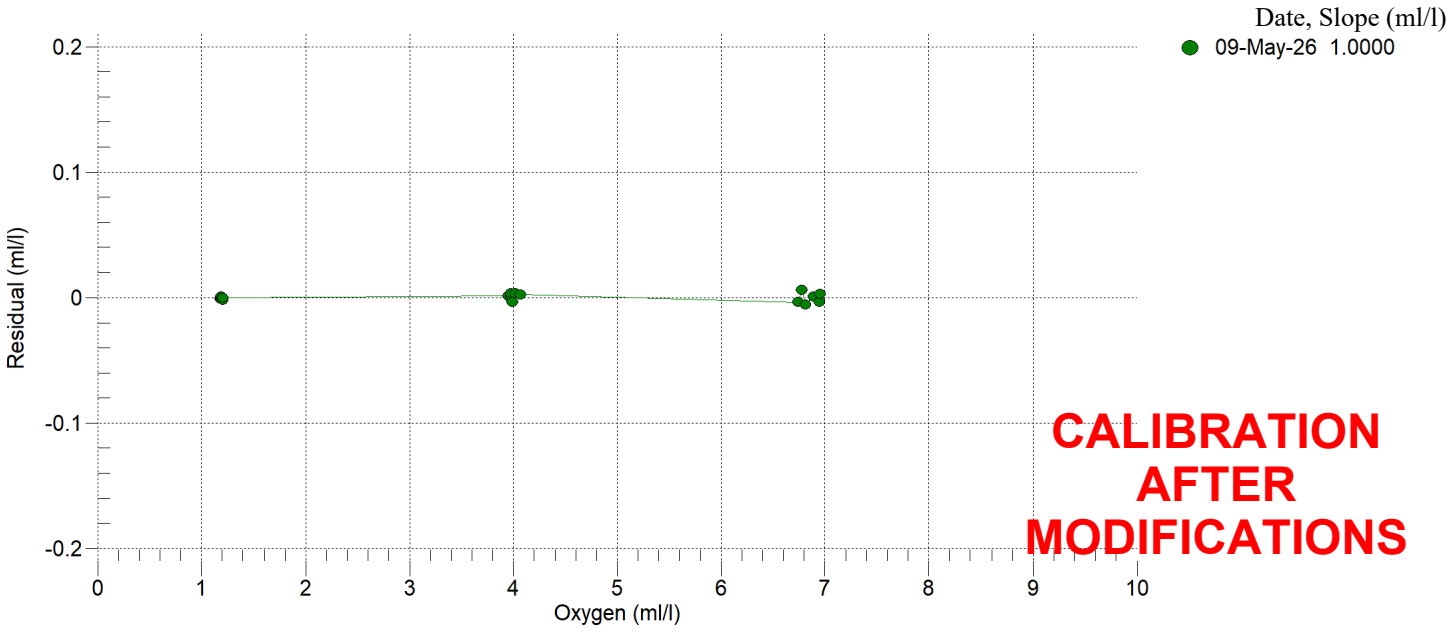
SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4392
Voffset = -0.5221
Tau20 = 1.32
A = -3.8486e-03
B = 1.6750e-04
C = -2.5372e-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)
1.19	2.00	0.00	0.803	1.18	-0.00
1.19	6.00	0.00	0.839	1.19	-0.00
1.19	26.00	0.00	1.016	1.19	0.00
1.20	30.00	0.00	1.055	1.20	-0.00
1.20	20.00	0.00	0.965	1.20	-0.00
1.20	12.00	0.00	0.895	1.20	-0.00
3.96	2.00	0.00	1.460	3.96	0.00
3.98	6.00	0.00	1.581	3.98	0.00
3.98	12.00	0.00	1.757	3.98	0.00
3.99	20.00	0.00	1.994	3.99	-0.00
4.02	26.00	0.00	2.187	4.02	0.00
4.07	30.00	0.00	2.336	4.07	0.00
6.74	2.00	0.00	2.118	6.74	-0.00
6.78	6.00	0.00	2.327	6.78	0.01
6.81	12.00	0.00	2.634	6.81	-0.01
6.89	20.00	0.00	3.065	6.89	0.00
6.95	30.00	0.00	3.614	6.94	-0.00
6.96	26.00	0.00	3.404	6.96	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