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SENSOR SERIAL NUMBER: 2320 SBE 63 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 25-Mar-25

COEFFICIENTS:

A0 = 1.0513e + 00 B0 = -2.2602e - 01 C0 = 9.5347e - 02 E = 1.1000e - 02

A1 = -1.5000e-03 B1 = 1.6370e+00 C1 = 4.0455e-03 A2 = 4.2024e-01 C2 = 5.5121e-05

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (µsec)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
0.794	30.00	0.00	30.35	0.807	0.013
0.818	26.00	0.00	31.09	0.828	0.010
0.871	20.00	0.00	32.14	0.877	0.006
0.955	12.00	0.00	33.61	0.957	0.002
1.059	6.00	0.00	34.62	1.056	-0.002
1.158	2.00	0.00	35.23	1.152	-0.006
2.421	30.00	0.00	22.12	2.425	0.004
2.544	26.00	0.00	22.74	2.548	0.004
2.691	20.00	0.00	23.93	2.692	0.001
3.200	12.00	0.00	24.93	3.201	0.001
3.606	6.00	0.00	25.97	3.603	-0.003
3.954	2.00	0.00	26.66	3.949	-0.005
4.009	30.00	0.00	18.22	4.009	-0.000
4.259	26.00	0.00	18.71	4.253	-0.006
4.692	20.00	0.00	19.49	4.685	-0.007
5.418	12.00	0.00	20.63	5.418	-0.001
5.617	30.00	0.00	15.82	5.619	0.002
6.035	26.00	0.00	16.17	6.031	-0.004
6.150	6.00	0.00	21.55	6.149	-0.001
6.684	20.00	0.00	16.82	6.685	0.001
6.763	2.00	0.00	22.19	6.761	-0.002
7.725	12.00	0.00	17.86	7.727	0.002
8.758	6.00	0.00	18.71	8.762	0.004
9.254	2.00	0.00	19.62	9.257	0.003

 $T = temperature (^{\circ}C)$, P = pressure (dbar), U = Instrument output (µsec)

 S_{corr} (salinity correction function) = 1.0 for calibration in DI water

See the user manual for more information on $\boldsymbol{S}_{\text{corr}}$ calculation

V = U / 39.457071

 $Oxygen \ (ml/l) = \{((A0 + A1*T + A2*V^2)/(B0 + B1*V) - 1.0)/(C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/(T+273.15)) + (C0 + C1*T + C2*T^2) + (C0 + C1*T^2) + (C0$

