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SENSOR SERIAL NUMBER: 0154
CALIBRATION DATE: 13-Oct-22

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4320
Voffset = -0.5090
Tau20 = 1.11
A = -4.7400e-003
B = 2.6599e-004
C = -3.9934e-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)
1.15	6.00	0.00	0.821	1.15	-0.00
1.16	12.00	0.00	0.874	1.16	-0.00
1.16	2.00	0.00	0.788	1.16	-0.00
1.17	20.00	0.00	0.943	1.17	0.00
1.17	30.00	0.00	1.026	1.17	0.00
1.17	26.00	0.00	0.993	1.17	0.00
3.91	6.00	0.00	1.569	3.91	-0.00
3.91	30.00	0.00	2.240	3.91	-0.00
3.91	2.00	0.00	1.454	3.92	0.00
3.92	12.00	0.00	1.745	3.93	0.00
3.93	26.00	0.00	2.131	3.92	-0.00
3.93	19.88	0.00	1.964	3.93	-0.00
6.70	2.00	0.00	2.125	6.70	0.00
6.72	6.00	0.00	2.330	6.72	-0.00
6.74	12.00	0.00	2.632	6.74	-0.00
6.75	30.00	0.00	3.494	6.75	0.00
6.78	19.83	0.00	3.020	6.78	0.01
6.80	26.00	0.00	3.316	6.79	-0.01

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

