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SENSOR SERIAL NUMBER: 2940
CALIBRATION DATE: 14-Oct-22

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4281
Voffset = -0.5106
Tau20 = 1.12
A = -4.2803e-003
B = 2.4648e-004
C = -3.4377e-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)
1.16	12.00	0.00	0.877	1.16	-0.00
1.16	2.00	0.00	0.791	1.15	-0.01
1.16	6.00	0.00	0.827	1.16	-0.00
1.17	30.00	0.00	1.027	1.17	0.00
1.17	20.00	0.00	0.946	1.17	0.00
1.17	26.00	0.00	0.995	1.17	0.01
3.91	2.00	0.00	1.463	3.91	0.00
3.91	6.00	0.00	1.579	3.91	-0.00
3.92	12.00	0.00	1.752	3.92	0.00
3.92	30.00	0.00	2.242	3.92	-0.00
3.93	26.00	0.00	2.134	3.93	-0.00
3.93	19.99	0.00	1.975	3.93	0.00
6.68	2.00	0.00	2.137	6.69	0.00
6.71	6.00	0.00	2.342	6.71	-0.00
6.75	12.00	0.00	2.647	6.75	-0.00
6.77	30.00	0.00	3.499	6.77	0.00
6.80	19.90	0.00	3.040	6.80	0.00
6.82	26.00	0.00	3.327	6.81	-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

