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SENSOR SERIAL NUMBER: 1639  
 CALIBRATION DATE: 19-Feb-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:            A = -4.3083e-003  
 Soc = 0.5173                B = 1.9216e-004  
 Voffset = -0.5410         C = -2.9061e-006  
 Tau20 = 1.08               E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS  
 D1 = 1.92634e-4         H1 = -3.300000e-2  
 D2 = -4.64803e-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)
1.12	2.00	0.00	0.768	1.13	0.01
1.13	5.93	0.00	0.796	1.13	0.00
1.13	12.00	0.00	0.839	1.13	-0.00
1.13	20.00	0.00	0.895	1.13	-0.00
1.14	26.00	0.00	0.941	1.14	-0.00
1.14	30.00	0.00	0.972	1.14	-0.00
3.86	2.00	0.00	1.317	3.85	-0.00
3.86	5.83	0.00	1.411	3.86	0.00
3.86	12.00	0.00	1.560	3.86	-0.00
3.87	30.00	0.00	2.004	3.86	-0.00
3.87	20.00	0.00	1.755	3.87	-0.00
3.87	26.00	0.00	1.904	3.87	-0.00
6.61	5.78	0.00	2.027	6.61	0.00
6.61	2.00	0.00	1.871	6.61	-0.00
6.66	12.00	0.00	2.298	6.65	-0.00
6.67	26.00	0.00	2.890	6.67	0.00
6.71	20.00	0.00	2.648	6.71	0.00
6.74	30.00	0.00	3.092	6.74	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)

Oxygen (ml/l) = Soc \* (V + Voffset) \* (1.0 + A \* T + B \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

