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SENSOR SERIAL NUMBER: 1638
 CALIBRATION DATE: 08-Jan-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.5478
 Voffset = -0.4956
 Tau20 = 1.95

A = -2.9075e-003
 B = 1.2709e-004
 C = -1.4435e-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)
1.10	2.00	0.00	0.704	1.10	-0.00
1.11	6.00	0.00	0.730	1.10	-0.00
1.11	12.00	0.00	0.769	1.11	-0.00
1.12	20.00	0.00	0.823	1.12	-0.00
1.13	26.00	0.00	0.864	1.13	-0.00
1.14	30.00	0.00	0.894	1.14	-0.00
3.81	2.00	0.00	1.219	3.81	0.00
3.82	6.00	0.00	1.308	3.82	0.01
3.82	12.00	0.00	1.439	3.82	0.00
3.83	20.00	0.00	1.616	3.83	0.00
3.84	26.00	0.00	1.751	3.85	0.01
3.87	30.00	0.00	1.850	3.88	0.00
6.55	2.00	0.00	1.737	6.55	-0.00
6.57	6.00	0.00	1.891	6.57	-0.00
6.60	12.00	0.00	2.124	6.60	-0.00
6.63	20.00	0.00	2.432	6.62	-0.00
6.63	30.00	0.00	2.808	6.62	-0.00
6.65	26.00	0.00	2.666	6.65	-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 * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

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

