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SENSOR SERIAL NUMBER: 2132
 CALIBRATION DATE: 23-Jan-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.4257
 Voffset = -0.5005
 Tau20 = 1.42

A = -4.1452e-003
 B = 1.8378e-004
 C = -2.8669e-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)
1.11	2.00	0.00	0.772	1.11	0.00
1.11	6.00	0.00	0.805	1.11	-0.00
1.11	12.00	0.00	0.857	1.11	-0.00
1.12	20.00	0.00	0.928	1.12	-0.00
1.13	30.00	0.00	1.018	1.12	-0.00
1.13	26.00	0.00	0.984	1.13	-0.00
3.82	26.00	0.00	2.136	3.82	0.00
3.82	2.00	0.00	1.437	3.83	0.00
3.82	30.00	0.00	2.263	3.82	-0.00
3.83	12.00	0.00	1.728	3.83	0.00
3.83	6.00	0.00	1.554	3.83	0.00
3.84	20.00	0.00	1.966	3.84	0.00
6.55	30.00	0.00	3.522	6.56	0.00
6.56	2.00	0.00	2.105	6.56	-0.00
6.59	6.00	0.00	2.312	6.59	-0.00
6.60	26.00	0.00	3.327	6.60	-0.00
6.61	12.00	0.00	2.621	6.61	-0.00
6.64	20.00	0.00	3.033	6.64	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

