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SENSOR SERIAL NUMBER: 4096
 CALIBRATION DATE: 12-Dec-20

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 3.1489e-004
 Foffset = -843.27
 Tau20 = 1.20
 A = -4.1771e-003
 B = 1.8293e-004
 C = -2.8762e-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 OX (ml/l)	BATH TEMP (°C)	BATH SAL (PSU)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.18	2.08	0.00	1232.604	1.17	-0.00
1.18	6.00	0.00	1281.546	1.18	-0.00
1.19	11.64	0.00	1352.630	1.18	-0.00
1.19	20.00	0.00	1459.294	1.19	0.00
1.20	26.00	0.00	1540.244	1.20	0.00
1.20	30.00	0.00	1593.156	1.20	0.00
4.02	2.08	0.00	2175.012	4.02	0.00
4.02	6.00	0.00	2338.654	4.02	-0.00
4.04	10.94	0.00	2553.938	4.05	0.00
4.05	20.00	0.00	2935.164	4.05	0.00
4.07	26.00	0.00	3200.977	4.07	-0.00
4.08	30.00	0.00	3388.279	4.08	-0.00
6.86	2.06	0.00	3117.370	6.86	0.00
6.89	6.00	0.00	3405.948	6.89	-0.00
6.92	10.44	0.00	3731.738	6.92	-0.00
6.97	20.00	0.00	4443.326	6.97	-0.00
6.98	30.00	0.00	5202.032	6.98	0.00
6.99	26.00	0.00	4896.328	6.99	0.00

F = instrument output (Hz); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

$$\text{Oxygen (ml/l)} = \text{Soc} * (\text{F} + \text{Foffset}) * (1.0 + \text{A} * \text{T} + \text{B} * \text{T}^2 + \text{C} * \text{T}^3) * \text{Oxsol(T,S)} * \exp(\text{E} * \text{P} / \text{K})$$

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

