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SENSOR SERIAL NUMBER: 0086
 CALIBRATION DATE: 27-Jan-24

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 2.4033e-004
 Foffset = -768.53
 Tau20 = 1.54
 A = -3.0939e-003
 B = 1.9715e-004
 C = -2.9538e-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)
1.19	20.00	0.00	1552.442	1.19	0.00
1.19	30.00	0.00	1702.255	1.19	-0.00
1.19	26.00	0.00	1643.461	1.19	0.00
1.20	12.00	0.00	1437.088	1.19	-0.00
1.20	6.00	0.00	1350.044	1.20	-0.00
1.21	2.00	0.00	1289.678	1.21	-0.00
3.89	2.00	0.00	2452.211	3.89	0.00
3.90	30.00	0.00	3822.018	3.90	-0.00
3.90	6.00	0.00	2656.651	3.90	0.00
3.90	26.00	0.00	3629.227	3.91	0.00
3.91	20.00	0.00	3344.309	3.91	0.00
3.91	12.00	0.00	2958.232	3.91	0.00
6.60	2.00	0.00	3621.871	6.60	-0.00
6.64	6.00	0.00	3975.816	6.63	-0.00
6.70	12.00	0.00	4515.823	6.70	0.00
6.73	30.00	0.00	6037.598	6.73	0.00
6.75	20.00	0.00	5209.172	6.74	-0.00
6.77	26.00	0.00	5720.765	6.76	-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

