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SENSOR SERIAL NUMBER: 3706
 CALIBRATION DATE: 15-Jun-18

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.4810
 Voffset = -0.4863
 Tau20 = 1.39

A = -4.1442e-003
 B = 1.3637e-004
 C = -2.0428e-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)
1.13	6.00	0.00	0.761	1.13	0.00
1.14	12.00	0.00	0.812	1.14	-0.00
1.15	2.00	0.00	0.735	1.15	-0.00
1.15	20.00	0.00	0.879	1.15	-0.00
1.18	26.00	0.00	0.940	1.17	-0.00
1.19	30.00	0.00	0.980	1.18	-0.00
3.88	2.00	0.00	1.327	3.88	0.00
3.89	6.00	0.00	1.434	3.89	0.00
3.90	12.00	0.00	1.600	3.90	0.00
3.92	20.00	0.00	1.825	3.92	-0.00
3.97	26.00	0.00	2.019	3.97	0.00
4.02	30.00	0.00	2.160	4.02	0.00
6.66	2.00	0.00	1.927	6.66	-0.00
6.66	6.00	0.00	2.110	6.66	0.00
6.70	12.00	0.00	2.396	6.69	-0.00
6.72	26.00	0.00	3.083	6.73	0.00
6.73	20.00	0.00	2.787	6.73	-0.00
6.76	30.00	0.00	3.303	6.76	-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)

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

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

