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SENSOR SERIAL NUMBER: 3706
CALIBRATION DATE: 21-Feb-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.4433
Voffset = -0.4932
Tau20 = 1.59

A = -2.3244e-03
B = 1.3160e-04
C = -2.6753e-06
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4 H1 = -3.300000e-2
D2 = -4.64803e-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)
1.12	6.00	0.00	0.785	1.12	-0.00
1.12	2.07	0.00	0.756	1.12	-0.00
1.13	12.00	0.00	0.834	1.12	-0.00
1.13	20.00	0.00	0.900	1.13	-0.00
1.13	26.00	0.00	0.952	1.13	0.00
1.13	30.00	0.00	0.989	1.14	0.00
3.87	6.00	0.00	1.506	3.87	0.00
3.87	2.06	0.00	1.402	3.87	0.00
3.88	20.00	0.00	1.890	3.88	0.00
3.88	12.00	0.00	1.671	3.88	0.00
3.88	26.00	0.00	2.067	3.89	0.01
3.89	30.00	0.00	2.192	3.89	-0.00
6.63	2.05	0.00	2.047	6.63	-0.00
6.65	6.00	0.00	2.232	6.65	0.00
6.65	12.00	0.00	2.510	6.65	-0.00
6.67	30.00	0.00	3.408	6.67	0.00
6.69	20.00	0.00	2.902	6.69	0.00
6.72	26.00	0.00	3.210	6.71	-0.01

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

