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SENSOR SERIAL NUMBER: 0719
CALIBRATION DATE: 31-Aug-21

SBE 43I OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 1.2798e-004
Foffset = -3355.98
Tau20 = 4.13

A = -2.8877e-003
B = 1.6554e-004
C = -2.6153e-006
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 OX (ml/l)	BATH TEMP (° C)	BATH SAL (PSU)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.18	2.00	0.00	4317.99	1.19	0.00
1.19	6.00	0.00	4434.64	1.19	-0.00
1.21	12.00	0.00	4626.97	1.21	-0.00
1.23	26.00	0.00	5058.54	1.23	-0.00
1.24	30.00	0.00	5196.85	1.24	-0.00
1.24	20.00	0.00	4897.77	1.24	-0.00
3.93	2.00	0.00	6545.22	3.93	0.00
3.93	6.00	0.00	6926.25	3.93	0.00
3.96	12.00	0.00	7523.61	3.96	0.00
3.97	26.00	0.00	8871.19	3.97	0.00
3.98	20.00	0.00	8305.56	3.98	0.00
3.99	30.00	0.00	9299.54	3.99	0.00
6.84	2.00	0.00	8902.88	6.83	-0.00
6.88	6.00	0.00	9604.44	6.88	-0.00
6.93	20.00	0.00	11976.31	6.93	0.00
6.94	30.00	0.00	13696.73	6.94	0.00
6.94	26.00	0.00	12997.92	6.94	-0.00
6.96	12.00	0.00	10678.18	6.96	-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)

Oxygen (ml/l) = Soc * (F + Foffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

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

