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SENSOR SERIAL NUMBER: 2949
CALIBRATION DATE: 01-Jan-20

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4229
Voffset = -0.5223
Tau20 = 1.60
A = -4.8463e-003
B = 2.4772e-004
C = -3.2025e-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)
1.17	20.00	0.00	0.969	1.17	0.00
1.18	30.00	0.00	1.055	1.18	0.01
1.18	2.00	0.00	0.810	1.17	-0.01
1.18	26.00	0.00	1.022	1.18	0.00
1.18	12.00	0.00	0.902	1.18	-0.00
1.19	6.00	0.00	0.853	1.19	0.00
3.93	26.00	0.00	2.188	3.94	0.01
3.93	30.00	0.00	2.299	3.94	0.01
3.95	2.00	0.00	1.492	3.94	-0.01
3.96	20.00	0.00	2.030	3.96	0.00
3.97	6.00	0.00	1.626	3.98	0.01
3.98	12.00	0.00	1.803	3.97	-0.01
6.73	2.00	0.00	2.182	6.74	0.00
6.79	30.00	0.00	3.582	6.78	-0.01
6.81	26.00	0.00	3.405	6.82	0.01
6.83	12.02	0.00	2.726	6.83	0.00
6.84	6.00	0.00	2.419	6.84	0.00
6.87	20.00	0.00	3.132	6.86	-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

