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SENSOR SERIAL NUMBER: 1875
CALIBRATION DATE: 19-Jan-17

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:		NOMINAL DYNAMIC COEFFICIENTS	
Soc = 0.5696	A = -4.3213e-003		
Voffset = -0.4903	B = 1.5263e-004	D1 = 1.92634e-4	H1 = -3.300000e-2
Tau20 = 1.14	C = -1.8077e-006	D2 = -4.64803e-2	H2 = 5.00000e+3
	E nominal = 0.036		H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.16	12.00	0.00	0.769	1.16	-0.00
1.16	6.00	0.00	0.729	1.16	-0.00
1.16	2.00	0.00	0.703	1.16	-0.00
1.17	20.00	0.00	0.826	1.17	-0.00
1.20	26.00	0.00	0.877	1.20	-0.00
1.21	30.00	0.00	0.909	1.21	0.00
3.92	12.00	0.00	1.435	3.92	0.00
3.94	20.00	0.00	1.622	3.94	0.00
3.94	2.00	0.00	1.211	3.94	-0.00
3.96	6.00	0.00	1.307	3.97	0.00
3.98	26.00	0.00	1.772	3.97	-0.00
3.98	30.00	0.00	1.867	3.98	0.00
6.71	2.00	0.00	1.717	6.71	0.00
6.74	6.00	0.00	1.877	6.74	-0.00
6.75	12.00	0.00	2.115	6.75	-0.00
6.79	30.00	0.00	2.841	6.79	0.00
6.84	26.00	0.00	2.693	6.83	-0.00
6.85	20.00	0.00	2.458	6.85	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)

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

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

Date, Slope (ml/l)
● 26-Nov-15 0.9690
▲ 19-Jan-17 1.0000

POST CRUISE CALIBRATION