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SENSOR SERIAL NUMBER: 1199  
CALIBRATION DATE: 19-Mar-08

## SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
Soc = 0.3638  
Voffset = -0.4817  
Tau20 = 1.24  
A = -2.7455e-003  
B = 3.0519e-004  
C = -5.7498e-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)
1.28	26.00	0.01	1.076	1.27	-0.01
1.28	20.00	0.01	1.020	1.27	-0.01
1.30	30.00	0.01	1.127	1.29	-0.01
1.30	12.00	0.01	0.953	1.29	-0.00
1.31	6.00	0.00	0.898	1.31	0.00
1.32	2.00	0.00	0.859	1.32	0.00
4.17	20.00	0.01	2.249	4.18	0.00
4.17	26.00	0.01	2.437	4.18	0.00
4.21	12.00	0.01	2.014	4.21	0.00
4.23	6.00	0.00	1.828	4.24	0.01
4.24	30.00	0.01	2.608	4.24	-0.00
4.25	2.00	0.00	1.697	4.26	0.01
6.61	30.00	0.01	3.797	6.61	0.00
6.70	26.00	0.01	3.617	6.69	-0.00
6.73	20.00	0.01	3.331	6.73	0.00
6.83	12.00	0.01	2.969	6.83	-0.00
6.85	6.00	0.00	2.655	6.84	-0.01
6.95	2.00	0.00	2.463	6.94	-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 \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

