

ENTERED
APR 09 2005

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SENSOR SERIAL NUMBER: 0037
 CALIBRATION DATE: 14-Jan-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4305

Boc = 0.0000

Voffset = -0.5516

TCor = -0.0002

PCor = 1.350e-04

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.21	12.00	0.01	0.928	1.22	0.01
1.21	2.00	0.00	0.844	1.21	0.00
1.26	6.00	0.01	0.888	1.26	0.00
1.32	26.00	0.01	1.101	1.33	0.01
1.32	20.00	0.01	1.040	1.33	0.01
1.32	30.00	0.01	1.144	1.34	0.01
4.09	12.00	0.01	1.813	4.08	-0.01
4.09	2.00	0.00	1.526	4.05	-0.04
4.11	6.00	0.01	1.644	4.09	-0.02
4.11	26.00	0.01	2.247	4.11	0.00
4.12	20.00	0.01	2.067	4.12	-0.00
4.16	30.00	0.01	2.397	4.16	-0.00
6.87	12.01	0.01	2.681	6.89	0.02
6.95	6.00	0.01	2.415	6.97	0.02
6.96	2.00	0.00	2.224	6.96	-0.00
7.01	30.00	0.01	3.652	6.99	-0.02
7.12	20.00	0.01	3.168	7.12	-0.00
7.20	26.00	0.01	3.527	7.21	0.01

$$\text{oxygen (ml/l)} = (\text{Soc} * (\text{V} + \text{Voffset})) * \exp(\text{Tcor} * \text{T}) * \text{Oxsat}(\text{T},\text{S}) * \exp(\text{Pcor} * \text{P})$$

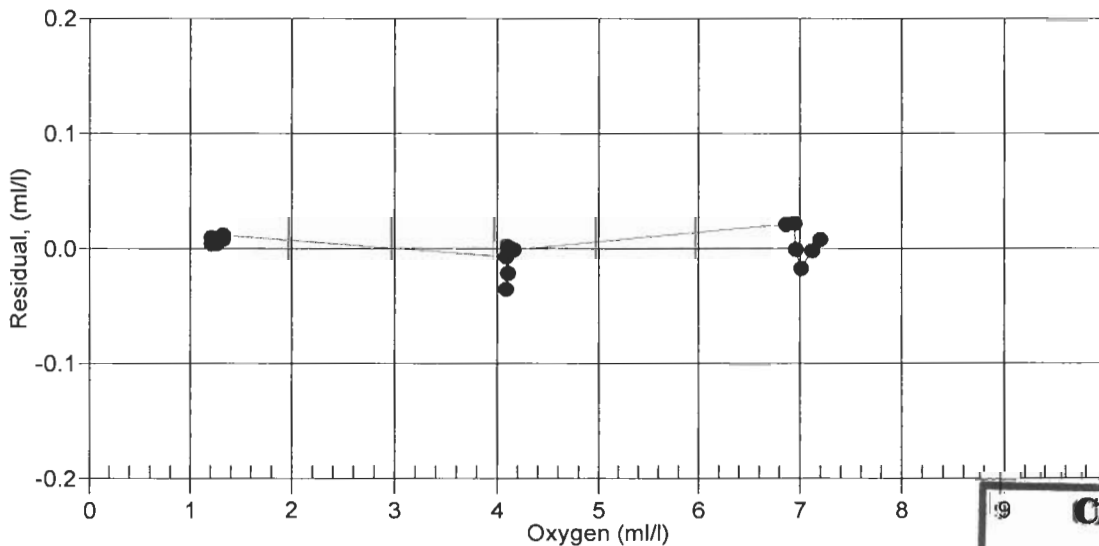
V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU]

Oxsat(T,S) = oxygen saturation [ml/l], P = pressure [dbar]

Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

● 14-Jan-05p 0.01



**9 CALIBRATION
AFTER
MODIFICATIONS**