

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1348
CALIBRATION DATE: 28-Dec-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4510

Boc = 0.0000

Voffset = -0.5088

TCor = 0.0014

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)
1.27	26.00	0.01	0.990	1.27	0.00
1.27	20.00	0.01	0.942	1.28	0.00
1.29	30.00	0.01	1.029	1.29	0.00
1.29	12.00	0.01	0.882	1.29	0.00
1.31	6.00	0.00	0.839	1.31	0.00
4.11	20.00	0.01	1.908	4.12	0.00
4.13	26.00	0.01	2.068	4.13	-0.00
4.14	30.00	0.01	2.181	4.14	-0.00
4.15	2.00	0.00	1.456	4.14	-0.01
4.16	12.00	0.01	1.712	4.15	-0.00
4.16	6.00	0.00	1.560	4.16	-0.01
6.67	26.00	0.01	3.028	6.67	0.00
6.69	20.00	0.01	2.782	6.69	0.01
6.72	30.00	0.01	3.219	6.72	-0.01
6.75	12.00	0.01	2.466	6.76	0.00
6.78	2.00	0.00	2.060	6.78	0.00
6.78	6.00	0.00	2.223	6.78	0.00

oxygen (ml/l) = (Soc * (V + Voffset)) * exp(Tcor * T) * Oxsat(T,S) * exp(PCor * 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)

28-Dec-07p 0.00

