

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1329
CALIBRATION DATE: 28-Sep-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3532

Boc = 0.0000

Voffset = -0.4914

TCor = 0.0017

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)
1.22	2.00	0.00	0.847	1.22	-0.01
1.24	12.00	0.01	0.951	1.25	0.01
1.24	20.00	0.01	1.029	1.25	0.01
1.24	26.00	0.01	1.088	1.25	0.00
1.25	6.00	0.00	0.894	1.25	0.00
1.25	30.00	0.01	1.135	1.26	0.01
4.11	20.00	0.01	2.266	4.12	0.00
4.13	26.00	0.01	2.460	4.11	-0.01
4.13	12.00	0.01	2.016	4.14	0.01
4.15	2.00	0.00	1.693	4.12	-0.03
4.15	30.00	0.01	2.612	4.15	0.00
4.15	6.00	0.00	1.829	4.15	-0.00
6.57	30.00	0.01	3.840	6.56	-0.01
6.58	26.00	0.01	3.638	6.57	-0.01
6.60	20.00	0.01	3.340	6.61	0.01
6.62	12.00	0.01	2.939	6.65	0.03
6.64	6.00	0.00	2.638	6.66	0.02
6.71	2.00	0.00	2.443	6.69	-0.02

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-Sep-07p 0.01

