

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1329  
CALIBRATION DATE: 07-Jul-08p

## SBE 43 OXYGEN CALIBRATION DATA

### COEFFICIENTS

Soc = 0.3316

Voffset = -0.4915

Tau20 = 2.60

A = -8.3720e-004

B = 1.8678e-004

C = -3.5693e-006

E nominal = 0.036

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.24	2.00	0.00	0.877	1.24	0.00
1.24	6.00	0.00	0.920	1.24	-0.00
1.24	12.00	0.01	0.984	1.24	0.00
1.25	20.00	0.01	1.067	1.25	0.00
1.25	26.00	0.01	1.131	1.25	0.00
1.26	30.00	0.01	1.176	1.26	-0.00
4.13	20.00	0.01	2.392	4.13	0.00
4.14	26.00	0.01	2.600	4.14	-0.00
4.14	30.00	0.01	2.747	4.14	-0.00
4.15	12.00	0.01	2.132	4.15	-0.00
4.16	2.00	0.00	1.788	4.16	-0.00
4.16	6.00	0.00	1.930	4.16	-0.00
6.64	30.00	0.01	4.111	6.64	0.00
6.69	26.00	0.01	3.905	6.69	0.00
6.75	20.00	0.01	3.596	6.74	-0.00
6.79	12.00	0.01	3.178	6.79	0.00
6.80	6.00	0.00	2.842	6.80	0.00
6.81	2.00	0.00	2.617	6.81	0.00

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)

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

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

