

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0140  
 CALIBRATION DATE: w19-Aug-03

## SBE 43 OXYGEN CALIBRATION DATA

### COEFFICIENTS

Soc = 0.3296

Boc = 0.0000

Voffset = -0.6728

TCor = -0.0001

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)
1.74	25.00	0.03	1.603		
1.84	5.00	0.04	1.292	1.76	0.02
2.60	25.00	0.03	2.053	1.82	-0.02
2.67	5.00	0.04	1.577	2.62	0.02
3.45	25.00	0.03	2.502	2.66	-0.01
3.55	5.00	0.04	1.877	3.47	0.01
5.21	25.00	0.03	3.424	3.54	-0.01
5.34	5.00	0.04	2.489	5.21	0.00
6.80	5.00	0.04	2.990	5.34	-0.00
6.93	25.00	0.03	4.319	6.81	0.02
				6.91	-0.02

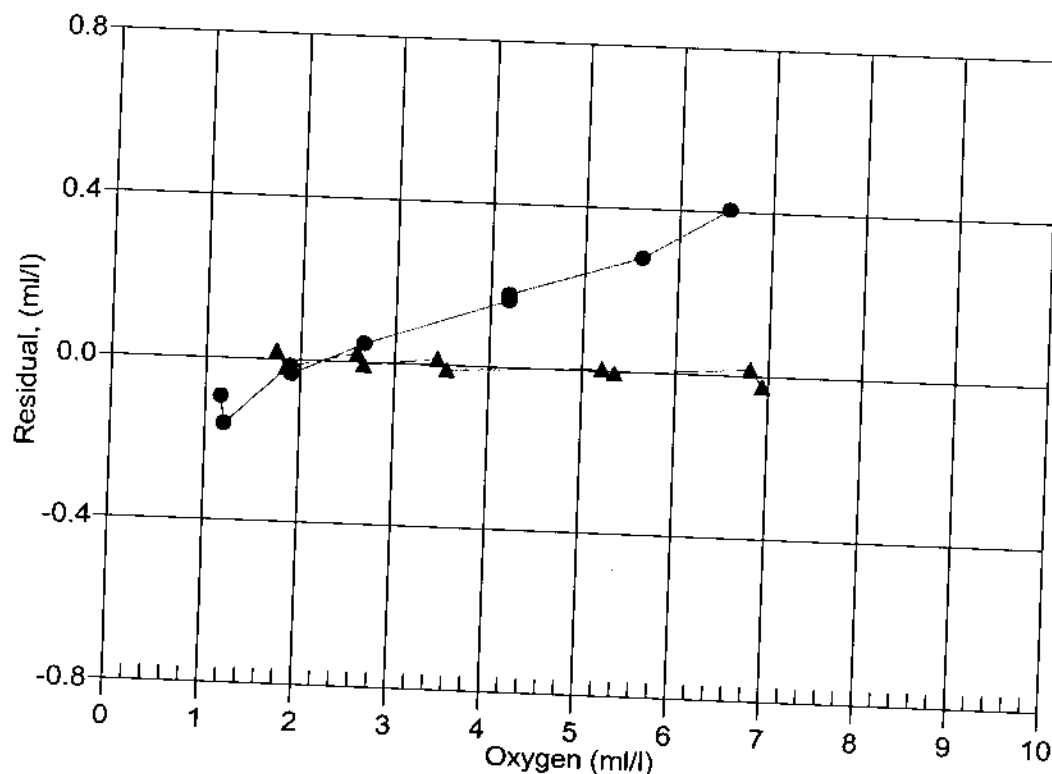
oxygen (ml/l) = (Soc \* (V + Voffset)) \* exp(Tcor \* T) \* Oxsat(T,S) \* exp(PCor \* P)

V = voltage output from SBE43, T = ocean temperature [deg C]

S = ocean salinity [PSU] from CTD, P = ocean pressure [dbar] from CTD

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

Residual = instrument oxygen - bath oxygen



Date, Delta Ox (ml/l)

● 17-Dec-01w 0.77  
 ▲ w19-Aug-03 0.01

POST CRUISE  
 CALIBRATION