

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1232  
CALIBRATION DATE: 23-Jan-10p

SBE 43 OXYGEN CALIBRATION DATA

**COEFFICIENTS**

Soc = 0.4897  
Voffset = -0.4950  
Tau20 = 1.52

A = -3.0472e-003  
B = 1.8561e-004  
C = -3.7188e-006  
E nominal = 0.036

**NOMINAL DYNAMIC COEFFICIENTS**

D1 = 1.92634e-4 H1 = -3.30000e-2  
D2 = -4.64803e-2 H2 = 5.00000e+3  
H3 = 1.45000e+3

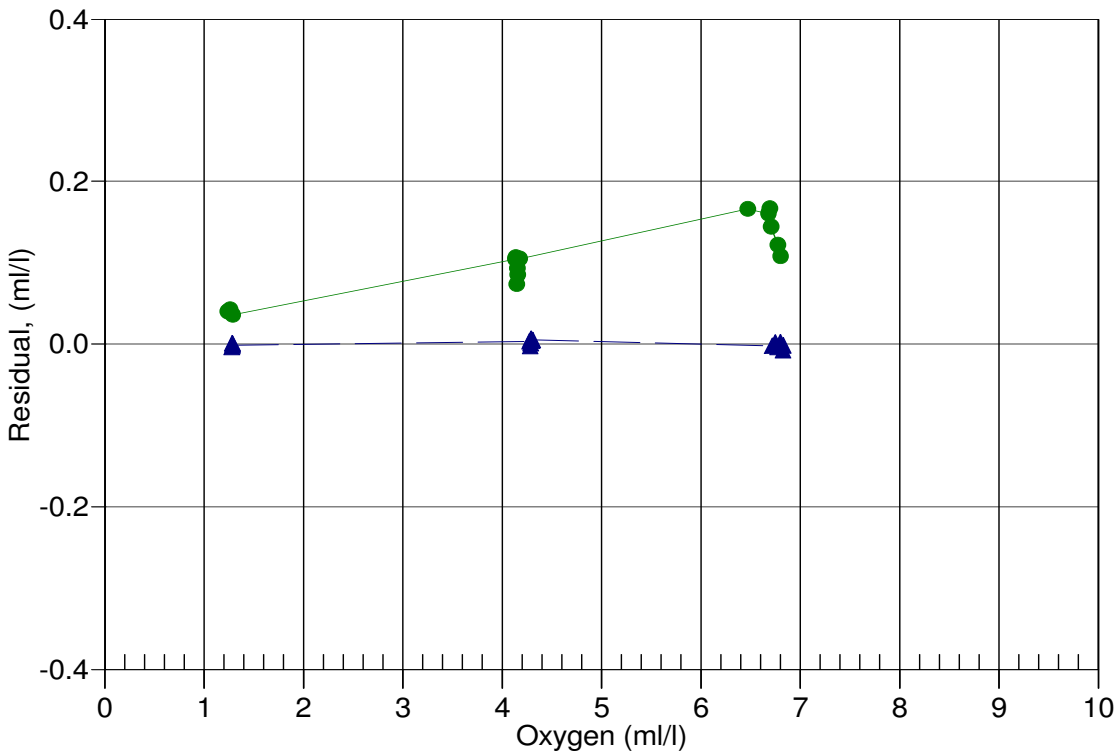
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.28	2.00	0.01	0.766	1.28	-0.00
1.28	6.00	0.01	0.798	1.28	-0.00
1.28	30.00	0.02	1.003	1.28	0.00
1.28	26.00	0.02	0.966	1.28	-0.00
1.28	20.00	0.01	0.914	1.28	-0.00
1.29	12.00	0.01	0.849	1.28	-0.00
4.27	30.00	0.02	2.188	4.28	0.00
4.28	26.00	0.02	2.063	4.28	-0.00
4.29	20.00	0.01	1.895	4.29	0.00
4.29	2.00	0.01	1.407	4.30	0.01
4.30	12.00	0.01	1.680	4.30	0.00
4.30	6.00	0.01	1.518	4.31	0.01
6.72	30.00	0.02	3.154	6.71	-0.00
6.74	26.00	0.02	2.969	6.75	0.00
6.77	20.00	0.01	2.703	6.76	-0.00
6.80	12.00	0.01	2.366	6.80	0.00
6.82	6.00	0.01	2.113	6.81	-0.01
6.82	2.00	0.01	1.943	6.82	-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)



● 18-Aug-09p 0.9783  
▲ 23-Jan-10p 1.0000