

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1232  
CALIBRATION DATE: 07-Jun-11p

SBE 43 OXYGEN CALIBRATION DATA

**COEFFICIENTS**

Soc = 0.4909  
Voffset = -0.5038  
Tau20 = 1.46

A = -2.6637e-003  
B = 1.1307e-004  
C = -2.3828e-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

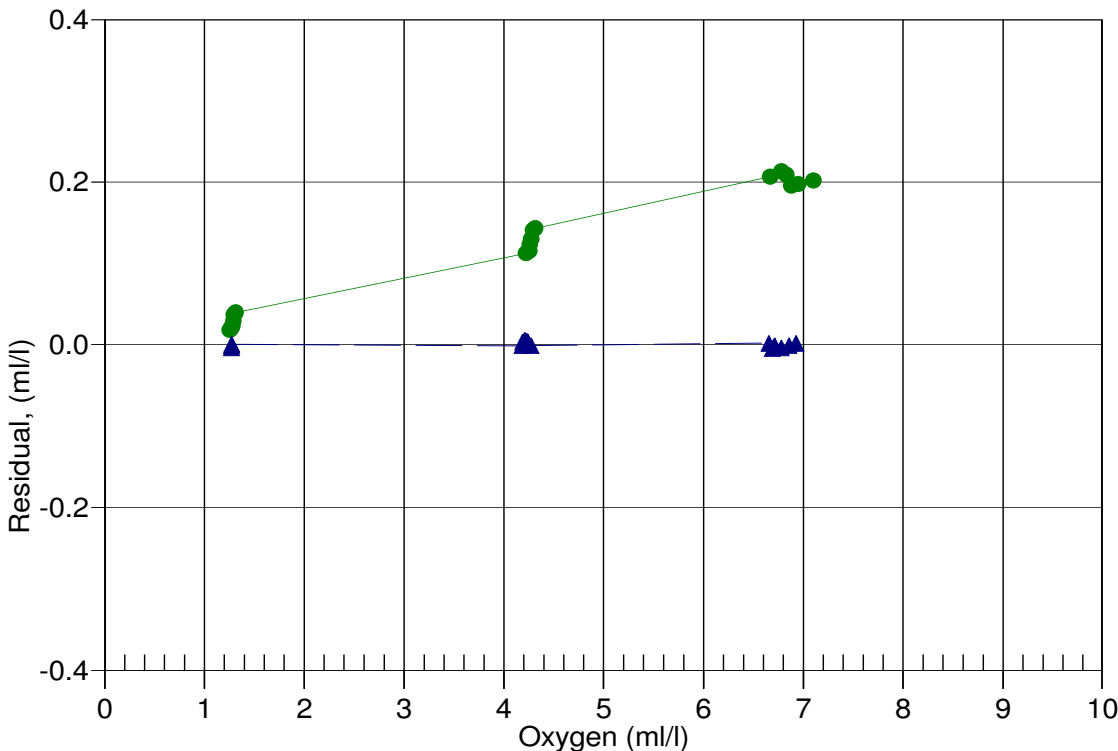
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.27	2.00	0.11	0.772	1.27	-0.00
1.27	6.00	0.10	0.805	1.27	-0.00
1.27	12.00	0.09	0.855	1.27	0.00
1.28	30.00	0.07	1.018	1.28	0.00
1.28	26.00	0.08	0.980	1.28	0.00
1.28	20.00	0.08	0.925	1.28	0.00
4.18	30.00	0.06	2.186	4.18	-0.00
4.19	26.00	0.08	2.063	4.19	0.00
4.20	20.00	0.08	1.890	4.21	0.01
4.23	12.00	0.09	1.670	4.23	0.00
4.24	6.00	0.10	1.509	4.24	0.00
4.27	2.00	0.11	1.408	4.27	-0.00
6.65	30.00	0.06	3.181	6.65	0.00
6.69	26.00	0.08	2.989	6.68	-0.00
6.71	20.00	0.08	2.712	6.71	-0.00
6.78	12.00	0.09	2.372	6.77	-0.00
6.85	6.00	0.10	2.128	6.85	-0.00
6.93	2.00	0.11	1.970	6.93	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)



● 29-Oct-10p 0.9713  
▲ 07-Jun-11p 1.0000