

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1266
CALIBRATION DATE: 04-Mar-14

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4228

Voffset = -0.5336

Tau20 = 1.36

A = -3.2173e-003

B = 1.5887e-004

C = -2.3498e-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

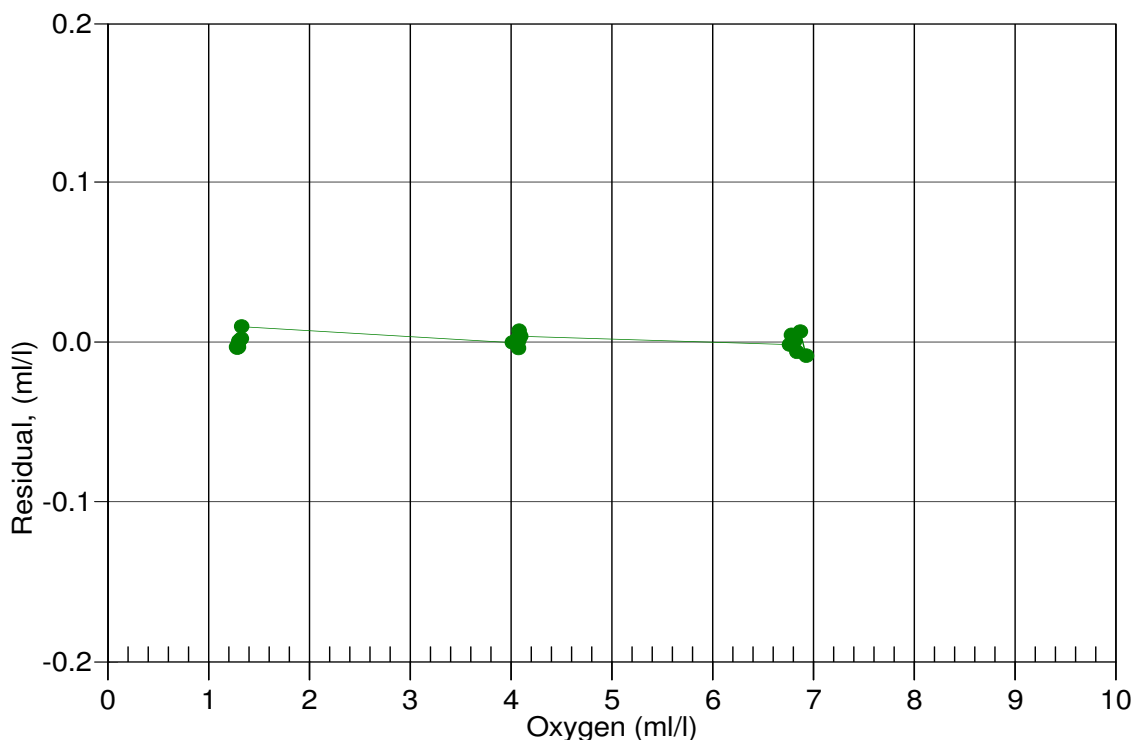
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.28	2.00	0.00	0.847	1.28	-0.00
1.29	6.00	0.00	0.887	1.28	-0.00
1.29	12.00	0.00	0.947	1.29	-0.00
1.30	20.00	0.00	1.027	1.30	0.00
1.32	26.00	0.00	1.096	1.33	0.00
1.33	30.00	0.00	1.141	1.34	0.01
4.01	2.00	0.00	1.519	4.01	-0.00
4.06	6.00	0.00	1.652	4.06	0.00
4.07	20.00	0.00	2.076	4.07	-0.00
4.08	12.00	0.00	1.838	4.08	0.00
4.08	26.00	0.00	2.267	4.09	0.01
4.09	30.00	0.00	2.398	4.10	0.00
6.76	2.00	0.00	2.195	6.76	-0.00
6.78	6.00	0.00	2.402	6.78	0.00
6.81	12.00	0.00	2.712	6.81	0.00
6.83	20.00	0.00	3.122	6.83	-0.01
6.87	26.00	0.00	3.449	6.87	0.01
6.93	30.00	0.00	3.681	6.92	-0.01

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * OxSol(T,S) * exp(E * P / K)

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

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

Date, Delta Ox (ml/l)



04-Mar-14 1.0000