

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1663
CALIBRATION DATE: 23-Nov-10p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3789

Voffset = -0.4636

Tau20 = 4.84

A = -1.7900e-003

B = 1.5296e-004

C = -2.7888e-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)
1.26	2.00	0.01	0.810	1.26	-0.00
1.27	6.00	0.01	0.852	1.27	0.00
1.27	12.00	0.01	0.911	1.27	0.00
1.28	20.00	0.02	0.995	1.28	-0.00
1.29	26.00	0.02	1.059	1.29	0.00
1.29	30.00	0.02	1.104	1.29	0.00
4.22	2.00	0.01	1.617	4.21	-0.00
4.23	6.00	0.01	1.752	4.23	-0.00
4.25	12.00	0.01	1.957	4.25	-0.00
4.26	30.00	0.02	2.570	4.26	-0.00
4.26	20.00	0.02	2.224	4.26	-0.00
4.26	26.00	0.02	2.429	4.26	0.00
6.64	30.00	0.02	3.747	6.64	-0.00
6.72	20.00	0.02	3.243	6.72	-0.00
6.72	12.00	0.02	2.828	6.73	0.00
6.73	6.00	0.01	2.518	6.74	0.00
6.75	26.00	0.02	3.577	6.75	0.00
6.76	2.00	0.01	2.313	6.76	0.00

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 [deg K]

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

Date, Delta Ox (ml/l)

