# Sea-Bird Electronics, Inc.

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### SENSOR SERIAL NUMBER: 0215 CALIBRATION DATE: 15-Oct-13

#### SBE 43F OXYGEN CALIBRATION DATA

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Note: Soc adjustment from single-point measurement 17-Oct-13

BATH OX	<b>BATH TEMP</b>	<b>BATH SAL</b>	INSTRUMENT	INSTRUMENT	RESIDUAL
(ml/l)	ITS-90	PSU	OUTPUT(Hz)	OXYGEN(ml/l)	(ml/l)
1.32	6.00	0.00	1338.84	1.32	-0.00
1.32	2.00	0.00	1282.19	1.32	-0.00
1.32	12.00	0.00	1422.54	1.32	-0.00
1.35	20.00	0.00	1548.28	1.35	-0.00
1.37	26.00	0.00	1647.36	1.38	0.00
1.38	30.00	0.00	1707.58	1.38	0.00
4.13	2.00	0.00	2286.77	4.13	0.00
4.14	6.00	0.00	2466.74	4.15	0.00
4.16	12.00	0.00	2738.12	4.16	0.00
4.20	20.00	0.00	3102.78	4.20	-0.00
4.23	26.00	0.00	3385.80	4.24	0.00
4.26	30.00	0.00	3581.60	4.26	0.00
6.99	2.00	0.00	3304.48	6.99	-0.00
7.00	12.00	0.00	4046.90	6.99	-0.00
7.02	6.00	0.00	3616.17	7.03	0.00
7.05	20.00	0.00	4660.45	7.05	-0.00
7.11	26.00	0.00	5131.12	7.11	0.00
7.16	30.00	0.00	5459.96	7.16	-0.00

Oxygen (ml/l) = Soc \* (F + Foffset) \*  $(1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)$ F = frequency output from SBE43F, 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)

