

SG-114

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0098
 CALIBRATION DATE: 17-Jan-06p

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 2.8163e-004
 Foffset = -814.7012

A = -1.9998e-003
 B = 1.7655e-004
 C = -3.5140e-006
 E = 0.036

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(Hz)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.17	6.00	0.00	1295.257	1.17	-0.00
1.17	2.00	0.00	1246.366	1.17	-0.00
1.18	12.00	0.00	1374.946	1.18	0.00
1.20	20.00	0.00	1485.475	1.20	0.01
1.22	26.00	0.00	1580.496	1.23	0.01
1.24	30.00	0.00	1649.923	1.25	0.01
3.69	2.00	0.00	2166.176	3.67	-0.01
3.70	6.00	0.00	2327.305	3.69	-0.01
3.72	20.00	0.00	2885.660	3.72	0.00
3.72	12.00	0.00	2571.165	3.71	-0.01
3.73	26.00	0.00	3138.554	3.74	0.00
3.81	30.00	0.00	3360.295	3.81	0.00
6.56	30.00	0.00	5202.192	6.56	-0.00
6.78	26.00	0.00	5028.323	6.77	-0.00
6.79	12.00	0.00	4027.436	6.79	0.00
6.80	20.00	0.00	4599.945	6.80	-0.00
6.83	6.00	0.00	3620.791	6.84	0.01
6.85	2.00	0.00	3337.681	6.85	0.01

Oxygen (ml/l) = Soc * (F + Foffset) * (1.0 + A * T + B * T² + C * T³) * 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)

