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Sea-Bird Electronics, Inc.

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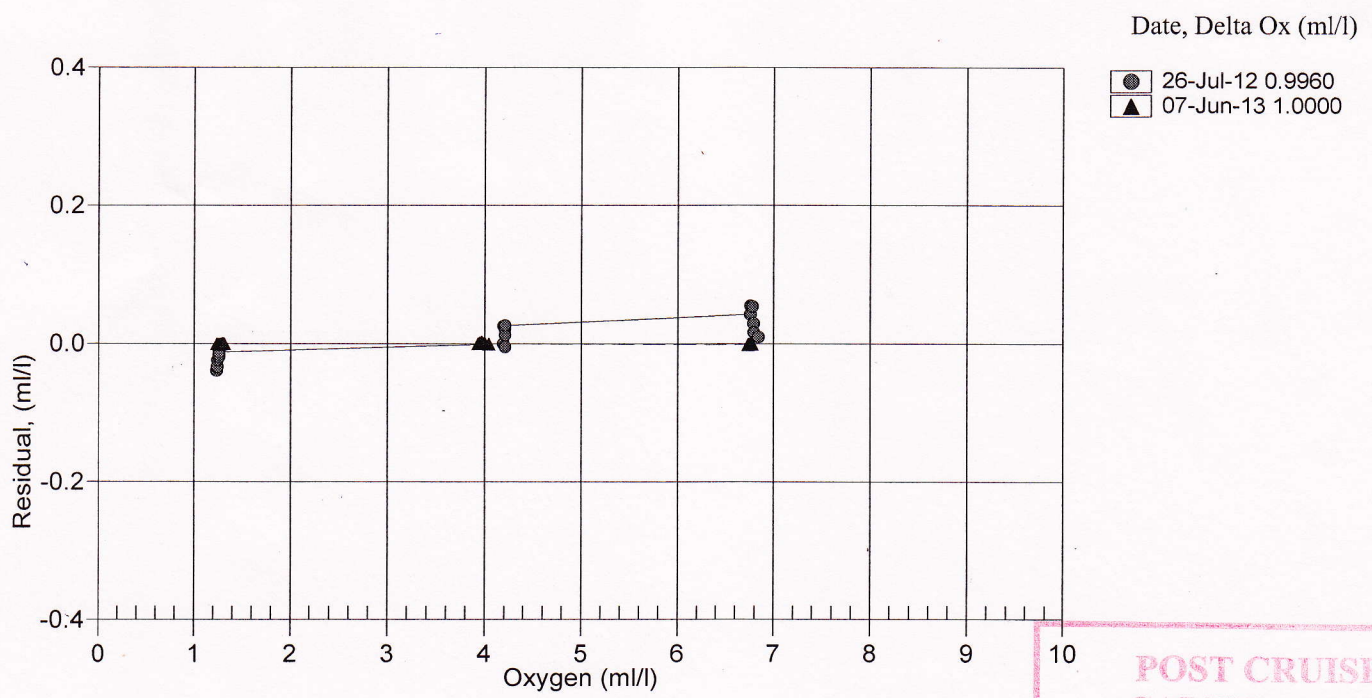
SENSOR SERIAL NUMBER: 0171
CALIBRATION DATE: 07-Jun-13

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS		A = -3.5281e-003	NOMINAL DYNAMIC COEFFICIENTS	
Soc = 3.4893e-004 (DI)	B = 1.7089e-004	D1 = 1.92634e-4	H1 = -3.30000e-2	
Foffset = -820.10	C = -2.9179e-006	D2 = -4.64803e-2	H2 = 5.00000e+3	
Tau20 = 1.25	E nominal = 0.036	H3 = 1.45000e+3		

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(Hz)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.23	2.00	0.00	1186.40	1.23	-0.00
1.26	6.00	0.00	1239.66	1.26	-0.00
1.27	12.00	0.00	1312.15	1.27	-0.00
1.28	20.00	0.00	1411.97	1.28	-0.00
1.30	26.00	0.00	1493.10	1.30	0.00
1.31	30.00	0.00	1551.69	1.31	-0.00
3.93	2.00	0.00	1990.78	3.93	-0.00
3.95	12.00	0.00	2355.40	3.95	0.00
3.97	6.00	0.00	2146.54	3.97	0.00
3.97	20.00	0.00	2656.85	3.97	0.00
3.99	26.00	0.00	2892.65	3.99	0.00
4.04	30.00	0.00	3078.30	4.04	-0.00
6.73	12.00	0.00	3435.75	6.73	-0.00
6.74	26.00	0.00	4318.13	6.74	-0.00
6.74	20.00	0.00	3936.51	6.74	-0.00
6.76	30.00	0.00	4598.48	6.76	0.00
6.76	6.00	0.00	3079.70	6.76	-0.00
6.77	2.00	0.00	2838.60	6.77	-0.00

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



POST CRUISE CALIBRATION



SEA-BIRD ELECTRONICS, INC.

13431 NE 20th St. Bellevue, Washington 98005 USA

Phone: (425) 643-9866 Fax: (425) 643-9954 www.seabird.com

Service
Report

RMA Number	74603
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Customer Information:

Company	The University of Hawaii	Date	6/10/2013
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Contact	Jennie Mowatt
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PO Number	TBD
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Serial Number	43F0171
Model Number	SBE 43F

Services Requested:

1. Evaluate/Repair Instrumentation.
2. Perform Routine Calibration Service.

Problems Found:

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Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the oxygen sensor.
3. Performed full diagnostic evaluation.

Special Notes:

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