SEA-BIRD ELECTRONICS, INC. 13431 NE 20th St. Bellevue, Washington 98005 USA

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

	Report			
Customer In	formation:			
Company	Pacific Marine Center / NOAA		Date	12/7/2010
Contact	Richard Conway			
PO Number				
Serial Numb	er 3845414-0317			
Model Numl	per SBE 38			
Problems Fo				
	rformed:			
Services Pe				
 Performed Performed Installed N 	initial diagnostic evaluation. "Post Cruise" calibration of the ter EW temperature probe guard. complete system check and full d			



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Temperature Calibration Report

Pacific Marine Center / NOAA

Customer:	Pacific Marine Co	enter / NOAA			8			
Job Number:	61957	Da	ate of Report:		11/11/2010			
Model Number	SBE 38	Se	rial Number:		3845414-0317			
Temperature sensors are normally calibrated 'as received', without adjustments, allowing a determination sensor drift. If the calibration identifies a problem, then a second calibration is performed after work is completed. The 'as received' calibration is not performed if the sensor is damaged or non-functional, or by customer request. An 'as received' calibration certificate is provided, listing coefficients to convert sensor frequency to temperature. Users must choose whether the 'as received' calibration or the previous calibration better represents the sensor condition								
during deployment allows a small corr	. In SEASOFT enter the ction for drift between pair apply only to subse	he chosen coefficients using calibrations (consult the Si	the program SE	ACON.). Calibro	The coefficient 'offset'			
Date: 11/11/201		Drift since	last cal: +	0.0000	1 Degrees Celsius/year			
Comments:					_			
	AFTER REPAIR'		☐ Perform	med	✓ Not Performed			
Date:		Drift since	Last cal:		Degrees Celsius/year			
Comments:								

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SENSOR SERIAL NUMBER: 0317 CALIBRATION DATE: 11-Nov-10 SBE 38 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -7.084446e - 006

a1 = 2.721922e-004

a2 = -2.131518e - 006

a3 = 1.471202e-007

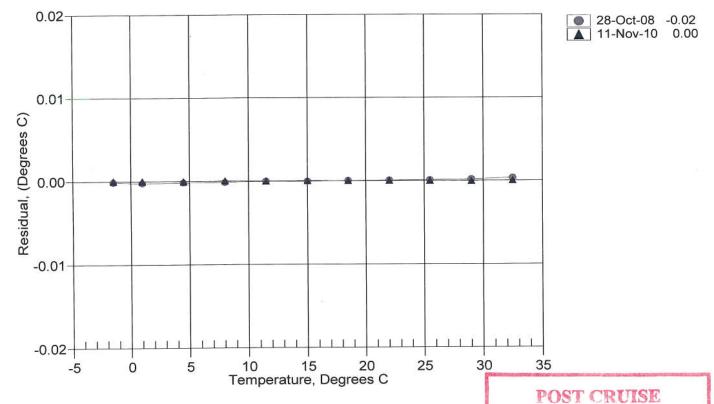
BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUA (ITS-90)	A
-1.50000	835660.4	-1.49999	0.000	01
1.00000	745976.1	1.00000	0.000	00
4.50000	638195.5	4.49995	-0.000	05
8.00000	547779.1	8.00003	0.000	03
11.50000	471675.6	11.49999	-0.000	01
15.00000	407402.8	15.00001	0.000	01
18.50000	352947.9	18.50001	0.000	01
22.00000	306666.0	22.00001	0.000	01
25.50000	267210.5	25.49999	-0.000	01
29.00000	233474.6	28.99996	-0.000	04
32.50000	204545.0	32.50003	0.000	03

Temperature ITS-90 = $1/\{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]\}$ - 273.15 (°C)

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

CALIBRATION









Bellevure, Washington, Inc.

- 10,500m
- 90299,4
- 3845414-0317

Made in U.S.A.

0500 METERS AXIMUM DEPTH