

NOAA COMMISSIONED OFFICER BILLET DESCRIPTION

SECTION 1 - GENERAL INFORMATION

CD Billet Number: 9016 billet taken from NMFS

A. Billet Number	3308	B. Billet Title	Scientific Support Officer - Vents
C. Grade Requested	O2 - LTJG	D. Type of Submission	PROPOSED NEW BILLET
E. Minimum amount of overlap between incumbent officer/reporting officer for continuity of duties	1 Month		
F. Duty Type	FIXED SHORE	G. Estimated Length of Assignment	3 years

SECTION 2 - DUTY STATION ADDRESS AND CONTACT INFORMATION

A. Street Address	2115 SE OSU Drive	B. Street Address					
C. City	Newport	D. State	Oregon	E. Country	United States	F. Zip Code	97365
G. Office	+1 (541) 867-0274	x		H. Mobile		I. Fax	

SECTION 3 - OFFICER EVALUATION REPORTING

A. Supervisor							
1. Name	Captain Mark Pickett	2. Position	Deputy Division Leader	3. Grade	O6		
4. Email	mark.pickett@noaa.gov	5. Office	+1 (206) 526-6197	x		6. Mobile	
B. Reporting Officer (2nd Level Supervisor)							
1. Name	Dr. Stephen R. Hammond	2. Position	Division Director	3. Grade	GS 15		
4. Email	stephen.r.hammond@noaa.gov	5. Office	+1 (541) 867-0183	x		6. Mobile	
C. Reviewer (Normally the Reporting Officer's Supervisor)							
1. Name	Captain Chris Beaverson	2. Position	Executive Officer, OAR	3. Grade	O6		
4. Email	chris.beaverson@noaa.gov	5. Office	+1 (301) 734-1013	x		6. Mobile	

SECTION 4 - ACCOUNTING AND ORGANIZATION

Complete as many of the following fields as possible. If in doubt, leave the field blank

A. Organizational Hierarchy - Use common acronyms when possible.

1. Staff or Line Office	OAR	2. Office, Center, or Lab	PMEL		
3. Division	OERD	4. Branch	Newport	5. Section or Team	Vents
B. NOAA Goal/Subgoal	Ecosystem	C. Program	Ecosystem Research		
D. NOAA Org Code	MAH000	E. NFC Org Code	545027000000000000	F. Project-Task	H8P2ANR - PPL

Routing Code: R/PMEL

SECTION 5 - PROGRAM, PROJECT OR ACTIVITY OVERVIEW

The Pacific Marine Environmental Laboratory (PMEL) carries out interdisciplinary scientific investigations in oceanography and atmospheric science for NOAA's office of Oceanic and Atmospheric Research (OAR). Current PMEL programs focus on open ocean observations in support of long-term monitoring and prediction of the ocean environment on time scales from hours to decades. Studies are conducted to improve understanding of the complex physical and geochemical processes operating in the world oceans, to define the forcing functions and processes driving ocean circulation and the global climate system, and to improve environmental forecasting capabilities and other supporting services for marine commerce and fisheries. PMEL consists of two main scientific research divisions, the Ocean Climate Research Division and the Ocean Environmental Research Division (OERD). OERD consists of the EcoFOCI program in the Bering Sea, the Tsunami Research program, and the Vents program.

The Vents program conducts research on the impacts and consequences of submarine volcanism and hydrothermal venting on the global ocean and deep-sea ecosystems. This research includes exploration, time-series observations, remote monitoring, and innovative instrumentation. The Program aims to provide timely information to the scientific community and the general public via peer-reviewed scientific publications as well as internet-accessible data and educational products.

SECTION 6 - DUTIES AND RESPONSIBILITIES

6A. Description of Duties and Responsibilities

The Vents Scientific Support Officer will work closely with Vents Principal investigators (PIs) who are actively studying submarine volcanism and hydrothermal venting in the Pacific Ocean. Vents PIs participate in several major hydrothermal research projects each year. These projects are typically conducted on UNOLS global class ships using bathymetric mapping, deep ocean hydrography, and remotely operated vehicles to map, characterize, and sample subsurface eruptive areas. The Scientific Support Officer will be part of the onboard science team that studies these sites for at least 2 cruises (30-40 days at sea) per year. After the cruises, the officer will assist with data analysis and synthesis to produce scientific results suitable for publication in peer reviewed journals.

The Vents Scientific Support Officer will be directly responsible for coordinating the logistics, preparation, and planning for the annual cruise to the New Millennium Observatory (NEMO) at Axial seamount on the Juan De Fuca Ridge. The NEMO observatory was set up and instrumented in the late 1990's and has been monitoring the geophysical and hydrothermal activity at this undersea volcano since that time. The observatory is included in the National Science Foundation's (NSF) \$125M Ocean Observatories Initiative (OOI) and will be a real-time cabled node in their new underwater observatory system. The Vents Science Support Officer will serve as the coordinator and contact person for NOAA, NSF, and the University of Washington during the cable installation and instrumentation of this important NSF funded project. Cable installation and instrumentation is scheduled to begin in 2011.

The Vents Scientific Support Officer will also work with the Division's Deputy Division Leader and PMEL's Associate Director for Operations to plan and prepare for other Vents related scientific projects. Other duties consistent with the above as well as other logistical and operational responsibilities to support the Newport component of PMEL Vents may be assigned.

6B. Division of Duties and Responsibilities, Total Must = 100%

Technical + Operational + Leading and Managing + Executive Leadership = 100%

SECTION 6 - DUTIES AND RESPONSIBILITIES (continued)

6C. Resources Managed

1. Human

Does the Officer supervise personnel? Yes No Number of personnel supervised

Grades of supervised personnel

Will the Officer lead people, but has no supervisory responsibilities? Yes No Number of personnel led

Grades of personnel led

2. Fiscal

Will the Officer have budget responsibility? Dollar Amount (K)

3. Assets - Will the Officer be directly responsible for managing Government assets such as ships, aircraft, boats, etc? If so, list the asset(s) below in terms of physical description and when known, replacement value (indicate if estimated):

The officer will be responsible for managing a considerable amount of government owned research equipment (~\$250k) that is used during the Vents missions. In addition the officer will be responsible for ensuring efficient usage of the Vents UNOLS charter funds (~30k/day) during the annual NEMO observatory trips off the Oregon/Washington coast.

SECTION 7 - LEADERSHIP PREREQUISITES

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES NEEDED FOR THIS BILLET
ENS (O1)	Leading Self	<input type="checkbox"/> Core Values & Conduct <input checked="" type="checkbox"/> Health & Well Being <input checked="" type="checkbox"/> Responsibility <input checked="" type="checkbox"/> Followership <input checked="" type="checkbox"/> Adaptability
LTJG (O2)	Leading Others	<input checked="" type="checkbox"/> Interpersonal Skills <input checked="" type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input checked="" type="checkbox"/> Listening <input type="checkbox"/> Speaking
LT (O3)		<input type="checkbox"/> Writing <input type="checkbox"/> Team Building <input type="checkbox"/> Leveraging Diversity <input type="checkbox"/> Influencing Others <input type="checkbox"/> Developing Others <input type="checkbox"/> Execution
LCDR (O4)	Leading Performance and Change	<input type="checkbox"/> Decisiveness <input type="checkbox"/> Problem Solving <input type="checkbox"/> Conflict Management <input type="checkbox"/> Customer Focus <input type="checkbox"/> Entrepreneurship
CDR (O5)		<input type="checkbox"/> Creativity & Innovation <input type="checkbox"/> Human Capital Management <input type="checkbox"/> Financial Management <input type="checkbox"/> Technology Management
CAPT (O6) and RADM (O7/O8)	Leading Organizations	<input type="checkbox"/> External Awareness <input type="checkbox"/> Strategic Thinking <input type="checkbox"/> Political Savvy <input type="checkbox"/> Vision <input type="checkbox"/> Partnering

Leadership Prerequisite Comments (Optional)

SECTION 8 - OPERATIONAL PREREQUISITES

A. Marine Prerequisites

- Officer of the Deck Senior Watch Officer ECDIS Dynamic Positioning Boat Deployment MedPIC
 Coxswain/OIC HAZWOPER AUV Deployment U/W UAS Deployment Buoy/Mooring Qualified
 Trawl Qualified Longline Qualified Hydro Launch PIC Foreign Port Calls

B. Aviation Prerequisites

- Co-Pilot Pilot Aircraft Commander Mission Commander Instructor Pilot Hurricane Qualified
 Alaska/Wilderness Qualified Flight Meteorologist International Flights UAS Pilot

C. Dive Prerequisites

- Scientific Diver Working Diver Advanced Working Diver Master Diver Dive Master Dive Medic
 Unit Diving Supervisor

D. Additional Operational Prerequisites (security clearances, special training) and Operational Prerequisite Comments (Optional)

A NOAA working diver qualification is preferred to assist with ROV, Submersible, and glider operations as well as equipment testing and mooring deployments.

SECTION 9 - PROGRAM, PROJECT, OR ACTIVITY PREREQUISITES

List specific qualifications, knowledge, skills or abilities required prior to reporting to this billet. For example: budget (MARS, CBS); personnel; contracting (COTR, Warrants); Scientific (IHO Category A, scientific papers/publications, GIS); engineering (marine survey, ABYC, ABS, FAA); regulatory (US Code, CFR); information technology (databases, networks, programming).

Officer must have a degree in geology, chemistry, or oceanography and have familiarity in working with the scientific process to increase understanding of earth systems. A Masters degree is preferred.

SECTION 10 - LEADERSHIP DEVELOPMENT

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES DEVELOPED IN THIS BILLET
ENS (O1)	Leading Self	<input type="checkbox"/> Core Values & Conduct <input type="checkbox"/> Health & Well Being <input type="checkbox"/> Responsibility <input type="checkbox"/> Followership <input type="checkbox"/> Adaptability
LTJG (O2)		<input type="checkbox"/> Interpersonal Skills <input type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input type="checkbox"/> Listening <input type="checkbox"/> Speaking
LT (O3)	Leading Others	<input checked="" type="checkbox"/> Writing <input checked="" type="checkbox"/> Team Building <input type="checkbox"/> Leveraging Diversity <input checked="" type="checkbox"/> Influencing Others <input type="checkbox"/> Developing Others <input checked="" type="checkbox"/> Execution
LCDR (O4)		<input type="checkbox"/> Decisiveness <input checked="" type="checkbox"/> Problem Solving <input type="checkbox"/> Conflict Management <input type="checkbox"/> Customer Focus <input type="checkbox"/> Entrepreneurship
CDR (O5)	Leading Performance and Change	<input type="checkbox"/> Creativity & Innovation <input type="checkbox"/> Human Capital Management <input type="checkbox"/> Financial Management <input type="checkbox"/> Technology Management
CAPT (O6) and RADM (O7/O8)		<input type="checkbox"/> External Awareness <input type="checkbox"/> Strategic Thinking <input type="checkbox"/> Political Savvy <input type="checkbox"/> Vision <input type="checkbox"/> Partnering
Leading Organizations		

Leadership Development Comments (Optional)

Vents cruises are generally focused on ocean exploration and as such have a high degree of visibility within NOAA and with the media. The Vents officer will become familiar with discovery at sea, ROV operations, and high visibility exploration based science.

SECTION 11 - OPERATIONAL DEVELOPMENT

A. Marine Development

- Officer of the Deck Senior Watch Officer ECDIS Dynamic Positioning Boat Deployment MedPIC
 Coxswain/OIC HAZWOPER AUV Deployment U/W UAS Deployment Buoy/Mooring Qualified
 Trawl Qualified Longline Qualified Hydro Launch PIC Foreign Port Calls

B. Aviation Development

- Co-Pilot Pilot Aircraft Commander Mission Commander Instructor Pilot Hurricane Qualified
 Alaska/Wilderness Qualified Flight Meteorologist International Flights UAS Pilot

C. Dive Development

- Scientific Diver Working Diver Advanced Working Diver Master Diver Dive Master Dive Medic
 Unit Diving Supervisor

D. Additional Operational Development (security clearances, special training) or Operational Development Comments (Optional)

SECTION 12 - PROGRAM, PROJECT, OR ACTIVITY DEVELOPMENT

List specific qualifications, knowledge, skills or abilities to be developed in this billet. For example: budget (MARS, CBS); personnel; contracting (COTR, Warrants); Scientific (IHO Category A, scientific papers/publications, GIS); engineering (marine survey, ABYC, ABS, FAA); regulatory (US Code, CFR); information technology (databases, networks, programming).

This billet provides the incumbent with the opportunity to work with Principal Investigators, Program Managers within the oceanographic community, and NOAA Corps officers of all grades at PMEL and the Marine Operations Center. The assignment offers the opportunity to develop long range planning skills as well as the scientific and technical skills needed to provide the officer with the background to become an effective Operations or Executive Officer.

The officer will also have the opportunity to publish scientific results in peer-reviewed literature and present findings at scientific meetings. Advanced educational opportunities are available at Oregon State University. This will be supported based on the officer's interest and their academic abilities. Seagoing proficiency is a must in order to participate in at least two scientific projects per year.

Vents is a high visibility program within OAR. The officer in this billet will have the opportunity to develop a scientifically based reputation within NOAA and OAR. This can lead to future higher level billets at PMEL, AOML, the office of Ocean Exploration and Research, or OAR headquarters.

SECTION 13 - CRITICAL SUCCESS CRITERIA

Provide brief measurable performance goals which would represent successful performance in this billet.

Successful performance will be judged by the officer's ability to make positive contributions to the scientific goals of the Vents program and OAR. For example, performance will be judged by: number of cruises participated in each year, ability to stand an independent scientific watch, and number of scientific publications contributed to each year. Also, in a leadership role: number of productive sea days per year at the NEMO observatory, number of planning and implementation workshops coordinated for the NSF Ocean Observatories Initiative (OOI), and quantity and quality of real-time measurements available from the Axial node of the OOI project.

SECTION 14 - ROUTING, REVIEW, RECOMMENDATION AND APPROVAL

A. Developer's Statement

"I certify that I have written this billet description and certify that it is a true and correct representation of the billet."

1. Signature **Mark Pickett**

Digitally signed by Mark Pickett
DN: cn=Mark Pickett, o=NOAA, ou=PMEL/OERD,
email=mark.pickett@noaa.gov, c=US
Date: 2010.03.16 09:22:29 -0700

2. Date **2010-03-16**

3. Name **Captain Mark H. Pickett, NOAA**

4. Title/Position **Deputy Division Leader**

B. Supervisor's Statement

"I have reviewed this billet description and certify that it is a true and correct representation of this billet "

1. Signature **Stephen R. Hammond**

Digitally signed by Stephen R. Hammond
DN: cn=Stephen R. Hammond, o=NOAA, ou=PMEL/Vents,
email=stephen.r.hammond@noaa.gov, c=US
Date: 2010.03.17 14:36:24 -0700

2. Date **March 17, 2010**

3. Name **Stephen R. Hammond**

4. Title/Position **PMEL/OERD Division Leader**

C. Reviewing Officer's Statement

"I have reviewed this billet description and certify that this billet is a priority for my Line, Staff, or Headquarters Office."

1. Signature _____

2. Date _____

3. Name _____

4. Title/Position _____

D. Commissioned Personnel Center Endorsement

"I am the OMAO/CPC Officer Career Management Division representative. I recommend approval of this billet."

1. Signature **Nathan H. Hancock**

Digitally signed by Nathan H. Hancock
DN: cn=Nathan H. Hancock, o=CPC, ou=Assignments
Branch, email=nathan.hancock@noaa.gov, c=US
Date: 2010.05.27 16:49:37 -0400

2. Date **2010-05-27**

3. Name **LCDR Nathan H. Hancock**

4. Title/Position **Chief, Officer Assignment Branch**

D. Director, NOAA Corps Endorsement

"I am the **Director, NOAA Corps** and I _____ this billet."

1. Signature 

2. Date **8/6/2010**

3. Name **RADM Jonathan W. Bailey**

4. Title/Position **Director, NOAA Corps**

Print Form

Submit to CPC (Reviewer Use Only)