

## NOAA COMMISSIONED OFFICER BILLET DESCRIPTION

### SECTION 1 - GENERAL INFORMATION

A. Billet Number	7199	B. Billet Title	Joint Lidar Center - NOAA Representative		
C. Grade Requested	O3 - LT	D. Type of Submission	ANNUAL RECERTIFICATION		
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	2 years		

### SECTION 2 - DUTY STATION ADDRESS AND CONTACT INFORMATION

A. Street Address	7225 Stennis Airport Rd	B. Street Address					
C. City	Kiln	D. State	Mississippi	E. Country	United States	F. Zip Code	39556
G. Office	+1 (228) 252-1103	x		H. Mobile		I. Fax	+1 (228) 252-1133

### SECTION 3 - OFFICER EVALUATION REPORTING

A. Supervisor							
1. Name	CDR Al Girimonte	2. Position	Deputy Chief, Remote Sensing Division	3. Grade	O5		
4. Email	Albert.Girimonte@noaa.gov	5. Office	+1 (301) 713-2663	x	153	6. Mobile	
B. Reporting Officer (2nd Level Supervisor)							
1. Name	Mike Aslaksen	2. Position	Chief, Remote Sensing Division	3. Grade	ZP V		
4. Email	mike.aslaksen@noaa.gov	5. Office	+1 (301) 713-2663	x	160	6. Mobile	+1 (301) 801-9024
C. Reviewer (Normally the Reporting Officer's Supervisor)							
1. Name	Juliana Blackwell	2. Position	Director, National Geodetic Survey	3. Grade	SES-All		
4. Email	juliana.blackwell@noaa.gov	5. Office	+1 (301) 713-3222	x	141	6. Mobile	+1 (240) 997-1290

### 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	NOS	2. Office, Center, or Lab	NGS		
3. Division	RSD	4. Branch	Staff	5. Section or Team	

B. NOAA Goal/Subgoal	Commerce and Transportation	C. Program	Marine Transportation		
D. NOAA Org Code	1011	E. NFC Org Code		F. Project-Task	

## SECTION 5 - PROGRAM, PROJECT OR ACTIVITY OVERVIEW

The officer will serve as the NOAA representative to the Joint Airborne Lidar Bathymetry Technical Center of Expertise (JALBTCX). The Joint Center, as it is called, is a consortium made up of the US Army Corps of Engineers (USACE), the Naval Oceanographic Office (NAVO), and NOAA. The center's main function is to manage the survey operations of a government-owned / contractor-operated airborne sensor suite (lidar, hyperspectral imager, RGB camera) in order to meet federal government charting requirements and to promote Integrated Ocean and Coastal Mapping (IOCM) efforts. Historically, the surveys have been executed on behalf of the USACE and Navy. The center's secondary function is to promote and conduct the research and development associated with topographic/bathymetric lidars and their related fields.

The officer's role will be to provide expertise and support to the consortium. This support could be in the form of independent research in fields such as lidar, sensor fusion, airborne positioning, sensor calibrations, or other related fields. NOAA's expertise may be derived from both the Office of Coast Survey, with respect to hydrography, and the Remote Sensing Division, with regard to aerial surveys and photogrammetry.

## SECTION 6 - DUTIES AND RESPONSIBILITIES

### 6A. Description of Duties and Responsibilities

The officer's primary duty will be to act as a liaison between the Joint Center and various NOAA programs to ultimately determine how best to utilize lidar bathymetry and its related technologies to execute NOAA missions and meet NOAA requirements; while also positively contributing to the Joint Center's own missions. This duty will be accomplished through the following:

- Providing expertise to Joint Center personnel regarding CORS station availability or photogrammetry analysis. These duties can range from simply being a point-of-contact between Joint Center and NGS, RSD & OCS personnel, to receiving first-hand training in NOAA offices and then developing a set of standard operating procedures for Joint Center use.
- Becoming a subject matter expert in the field of lidar to be a resource for the broader NOAA community. By learning about the technological and operational issues affecting survey production, learning the system's capabilities and strengths, the officer should be capable of fielding questions, training personnel, and performing outreach to identify and educate NOAA offices who could be using Joint Center products, but are not presently doing so.
- Assisting the Joint Center in the planning and execution of various functions: Annual JALBTCX lidar workshop, Mapping applications workshop, Survey specifications workshops.
- Engaging in directed research and disseminating results through the appropriate government (OCS Field Procedure Workshop, JALBTCX Coastal Mapping and and Charting Workshop, Remote Sensing Division Coastal Mapping Board) or professional (ASPRS, SPIE) channels.
- Sitting on the oversight committee for the Coastal Zone Mapping and Imaging Lidar (CZMIL) System, a \$24 million research and development project, for a next-generation lidar, funded by the USACE to support the Joint Center's requirements.
- Performing various ancillary tasks that may be assigned by the Chief, Remote Sensing Division when necessary.

### 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):

N/A

## SECTION 7 - LEADERSHIP PREREQUISITES

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES NEEDED FOR THIS BILLET
ENS (O1)	Leading Self	<input checked="" 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)		<input checked="" type="checkbox"/> Interpersonal Skills <input checked="" type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input checked="" type="checkbox"/> Listening <input checked="" type="checkbox"/> Speaking
LT (O3)	Leading Others	<input checked="" type="checkbox"/> Writing <input type="checkbox"/> Team Building <input type="checkbox"/> Leveraging Diversity <input type="checkbox"/> Influencing Others <input type="checkbox"/> Developing Others <input checked="" type="checkbox"/> Execution
LCDR (O4)		<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)

This billet is remote, and it is absolutely essential that the officer be self-motivated and capable of setting and completing goals without immediate supervision.

## 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)

## 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).

The officer should have either a strong hydrographic background or a vast experience working with remotely sensed data and their derived products. As such, it is strongly recommended that the officer has previously completed billet 7198 to ensure success in this billet, or otherwise has both an extremely strong understanding of the science behind Hydrography and knowledge of computer programming and data analysis

The officer should be aware of the fields in which hydrographic data is used, proficient in the software used to process and analyze hydrographic data (Matlab, C++ and VDatum), have a clear understanding of the underlying physics, and an awareness of the sources of uncertainty and limitations of hydrographic systems.

As a liaison to other government agencies, the ability to effectively communicate cannot be over-emphasized. Further, the officer will frequently be required to interact with individuals of a higher rank or senior officials and will be expected to have a proper bearing and a clear understanding of military customs and courtesies.

## SECTION 10 - LEADERSHIP DEVELOPMENT

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES DEVELOPED IN THIS BILLET
ENS (O1)	Leading Self	<input checked="" 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)		<input checked="" type="checkbox"/> Interpersonal Skills <input checked="" type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input checked="" type="checkbox"/> Listening <input checked="" type="checkbox"/> Speaking
LT (O3)	Leading Others	<input checked="" type="checkbox"/> Writing <input checked="" type="checkbox"/> Team Building <input checked="" type="checkbox"/> Leveraging Diversity <input checked="" type="checkbox"/> Influencing Others <input checked="" 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 checked="" type="checkbox"/> Customer Focus <input checked="" type="checkbox"/> Entrepreneurship
CDR (O5)	Leading Performance and Change	<input checked="" type="checkbox"/> Creativity & Innovation <input type="checkbox"/> Human Capital Management <input type="checkbox"/> Financial Management <input checked="" type="checkbox"/> Technology Management
CAPT (O6) and RADM (O7/O8)		<input checked="" type="checkbox"/> External Awareness <input type="checkbox"/> Strategic Thinking <input type="checkbox"/> Political Savvy <input type="checkbox"/> Vision <input checked="" type="checkbox"/> Partnering

### Leadership Development Comments (Optional)

Lidar is a developing technology, and the Joint Center is at the forefront of that development. This billet allows the officer to be involved in this research while working with a diverse group of individuals from multiple government agencies and the private sector. The officer will be the point of contact for multiple organizations, and will need to be able to quickly learn the discipline well enough to both solve problems and identify new applications. This billet also provides the opportunity for scientific publication.

## 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).

As a liaison, the officer's communication skills will constantly be refined. The officer will act as a go-between for both Joint Center and NOAA technical inquiries. The officer could be asked to provide both high-level briefings to USACE or Navy VIPs or a technically-oriented presentation to a field unit. The preparation of reports, standard operating procedures and papers for publication in scientific journals are commonplace within this billet.

The Joint Center has a culture of innovation and research. The officer will be strongly encouraged to pursue directed research that can be of benefit to both NOAA and the Joint Center; this research can be in the avenue of long-standing problems or can focus on re-evaluating an established practice.

While the Joint Center does acquire, process and deliver all of its own data products, it does not determine the specifications for these products. Given both the USACE and NAVO have their own unique requirements (which can be different from NOAA's charting mission), the officer will receive an excellent education in a customer-driven production pipeline.

The inter-agency nature of the Joint Center will impart valuable experience to the officer on how NOAA and other agencies can effectively partner, collaborate, and leverage to best accomplish their respective missions. Staff or administrative positions throughout NOAA would benefit from an officer with this background, especially within NOS.

From an operational perspective, experience gained through this billet will be extremely useful aboard the NOAA hydrographic survey platforms or at the hydrographic branches, where there is a dearth of lidar expertise; and would be beneficial to a NOAA aviator who is flying aircraft with remote sensing capabilities.

## **SECTION 13 - CRITICAL SUCCESS CRITERIA**

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

- Officer should publish a paper (white paper or scientific journal) once per year.
- Officer should present developments at JALBTCX at least twice per year.
- Officer should continually strive to make new contacts within NOAA programs to identify new customers for Joint Center products.
- Officer should specifically seek to leverage Joint Center products within the Office of Coast Survey and the Remote Sensing Division to complement NOAA's nautical charting and Coastal Mapping Program initiatives.

**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 Michael O. Gonsalves

Digitally signed by Michael O. Gonsalves  
DN: cn=Michael O. Gonsalves, o=NOAA, ou=NOAA Ship  
FAIRWEATHER, email=michael.gonsalves@noaa.gov, c=US  
Date: 2010.04.19 18:21:34 -0500

2. Date 2010-04-19

3. Name Michael O. Gonsalves, LT/NOAA

4. Title/Position JALBTCX Team 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 

CDR Eric W. Berkowitz  
2010.04.27 16:03:57 -04'00'

2. Date 2010-04-26

3. Name CDR Eric W. Berkowitz, NOAA

4. Title/Position Deputy Chief, Remote Sensing Division

**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 Captain Michele Finn

Digitally signed by Captain Michele Finn  
DN: cn=Captain Michele Finn, o=Disaster Response Center,  
ou=NOS/ORR, email=michele.a.finn@noaa.gov, c=US  
Date: 2010.04.28 08:42:28 -04'00'

2. Date 2010-04-28

3. Name Captain Michele Finn

4. Title/Position NOS Liaison Officer

**D. Commissioned Personnel Center Endorsement**

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

1. Signature 

2. Date 11/22/2011

3. Name LT Amanda Goeller

4. Title/Position Chief, Officer Assignment Branch

**D. Director, NOAA Corps Endorsement**

"I am the authorized representative of the Director, NOAA Corps and I approve this billet."

1. Signature 

2. Date 1/23/2012

3. Name CAPT Anne Lynch

4. Title/Position Director, Commissioned Personnel Center

Print Form

Submit to CPC (Reviewer Use Only)

