## NOAA COMMISSIONED OFFICER BILLET DESCRIPTION

### SECTION 1 - GENERAL INFORMATION

<table>
<thead>
<tr>
<th>A. Billet Number</th>
<th>B. Billet Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>7199</td>
<td>Joint Lidar Center - NOAA Liaison/ Remote Sensing Operator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Grade Requested</th>
<th>D. Type of Submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>O3 - LT</td>
<td>CHANGE OF LOCATION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Minimum amount of overlap between incumbent officer/reporting officer for continuity of duties</th>
<th>F. Duty Type</th>
<th>G. Estimated Length of Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Month</td>
<td>MOBILE</td>
<td>2 years</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>A. Street Address</th>
<th>B. Street Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1315 East West Highway</td>
<td>SSMC3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. City</th>
<th>D. State</th>
<th>E. Country</th>
<th>F. Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver Spring</td>
<td>Maryland</td>
<td>United States</td>
<td>20910</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>G. Office</th>
<th>H. Mobile</th>
<th>I. Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1 (301) 713-2663</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 3 - OFFICER EVALUATION REPORTING

#### A. Supervisor

1. Name: LCDR Chris Sloan
2. Position: Chief, Requirements Branch
3. Grade: O4

4. Email: chris.sloan@noaa.gov

#### B. Reporting Officer (2nd Level Supervisor)

1. Name: CDR Mark Sweeney
2. Position: Deputy Chief, Remote Sensing Division
3. Grade: O5

4. Email: mark.sweeney@noaa.gov

#### C. Reviewer (Normally the Reporting Officer's Supervisor)

1. Name: Michael L. Aslaksen, Jr.
2. Position: Chief, Remote Sensing Division
3. Grade: ZP V

4. Email: mike.aslaksen@noaa.gov

### 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.

<table>
<thead>
<tr>
<th>1. Staff or Line Office</th>
<th>2. Office, Center, or Lab</th>
<th>3. Division</th>
<th>4. Branch</th>
<th>5. Section or Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOS</td>
<td>NGS</td>
<td>RSD</td>
<td>Requirements Branch</td>
<td></td>
</tr>
</tbody>
</table>

#### 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), and will also perform as an in-flight remote sensing operator. 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), the United States Geologic Survey (USGS), 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, Navy, and NOAA. The Center's secondary function is to promote and conduct the research and development associated with topographic/bathymetric lidars and their related functions.

The officer's role with JALBTCX will be to liaison and provide expertise and support to the consortium. The officer will live and work in Silver Spring, MD and will travel as needed down to Stennis, MS to interact with JALBTCX.

The officer will also serve in the Requirements Branch of RSD establishing coastal mapping project requirements and boundaries, traveling with the NOAA aircraft to support survey collections, and post-processing data collected as visual imagery and Lidar.

SECTION 6 - DUTIES AND RESPONSIBILITIES

- Property Accountability Officer - Administer and maintain a system of control and accountability for personal property as prescribed in OMAO's Personal Property Policy #1502
- Property Custodians - Maintain all accountable personal property within your designated area of responsibility as prescribed in OMAO's Personal Property Policy #1502

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 NOAA operations and programs. These duties can range from simply being a point-of-contact between Joint Center and NGS, RSD, and 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 systems' 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 Procedures Workshop, JALBTCX workshops, Remote Sensing Division Coastal Mapping Board) or professional channels.
--Sitting on the oversight committee for the Coastal Zone Mapping and Imaging (CZMIL) System, a $24 million research and development project.
--Performing various ancillary tasks as may be assigned by the Chief, Remote Sensing Division when necessary.

The officer will also travel frequently with NOAA aircraft serving as an operator of our airborne Lidar and camera systems in support of Coastal Mapping and Emergency Response functions. The officer will be expected to plan, execute, and post-process collected data for a variety of Coastal Mapping and Emergency Response projects, and will develop expertise in the involved systems which will aid in the role of liaison to JALBTCX.

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

<table>
<thead>
<tr>
<th>Technical</th>
<th>Operational</th>
<th>Leading and Managing</th>
<th>Executive Leadership</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>40</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

= 100%
SECTION 6 - DUTIES AND RESPONSIBILITIES (continued)

6C. Resources Managed

1. Human

Does the Officer supervise personnel? ☐ Yes ☐ No Number of personnel supervised N/A

Grades of supervised personnel N/A

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

Grades of personnel led N/A

2. Fiscal

Will the Officer have budget responsibility? ☐ No ☐ Yes 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

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

Leadership Prerequisite Comments (Optional)

This billet has been relocated and the officer will now be stationed in Silver Spring, MD.
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

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<tr>
<td></td>
<td></td>
<td>☐ Vision ☑ Partnering</td>
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Leadership Development Comments (Optional)

Lidar is a developing technology and the Joint Center and RSD are 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 will 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 be constantly 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 technical publication in scientific journals are commonplace within this billet.

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 a year.
-- Officer should continually strive to make new contacts within NOAA programs to identify new customers for Joint Center and/or RSD 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.
-- Officer should become technically proficient in operating NOAA owned lidar systems and processing collected data.
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: Sweeney, Mark
2. Date: 2016-05-10

3. Name: CDR Mark Sweeney, NOAA
4. Title/Position: Deputy Chief, Remote Sensing Division

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: Aslaksen, Michael L., Jr.
2. Date: 2016-06-02

3. Name: Michael L. Aslaksen, Jr.
4. Title/Position: 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 Eric Berkowitz
2. Date: 2016-06-02

3. Name: CAPT Eric Berkowitz
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: CDR Devin R. Brakob, NOAA
2. Date: 7/7/2016

3. Name: CDR Devin R. Brakob, NOAA
4. Title/Position: Chief, Officer Career Management Division

E. Director, NOAA Corps Endorsement

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

1. Signature: [Signature]
2. Date: 7/11/16

3. Name: RADM David A. Score, NOAA
4. Title/Position: Director, NOAA Corps