Sector Key West
Waterways Management (WWM)

17 April 2018

LT Scott Ledee
USCG Sector Key West
Chief, WWM Division
WWM Missions

- COTP Orders
- Safety & Security Zones
- Broadcast Notice to Mariners
- Marine Events
- Marine Event Permits
- USACE
- Outreach
  - Public & Industry
- ATON
- Dead-ship tow
- Lightering
- Anchorage management
- MTS disruption
- Obstructions to Nav.
- Hurricane Prep. & Recovery
- Ice
- Bridges
- WAMS
- VTS
Heavy Weather Prep & Recovery

- Port Coordination
- Emergency Port Plans
- Limited Access Areas
- Marine Transportation System Recovery (MTSRU)

Harvey  Irma
Bridges

- Permits
- Managing design
- Monitoring construction
- Removal or alteration

- Navigational lighting - 33CFR118
- Operation of movable bridges (Snake Creek Bridge)
Permit review – structures
Risk Assessment
Dredging
Obstructions to navigation
Debris removal
Surveys
MTS recovery
Safe navigation
Obstruction to Navigation

What factors are considered?

33 CFR 64.31

- Near channel?
- Navigational difficulty around the obstruction?
- Depth of water over the obstruction?
- Type of traffic in the area?
- Physical Characteristic of the obstruction?
- Is the object moving or stationary?
- Near ATON?
- How long has it been there?
- History of incidents?

*Once determined to be a HAZNAV work with ACOE to get it removed

- Bridges
- Abandoned vessels and barges
- Wrecks
- Submerged objects
- Marine debris
Limited Access Areas

- Control access to, and movement within, areas under jurisdiction

- Safety Zones
  - 33CFR165.20

- Security Zones
  - 33CFR165.30

- Regulated Nav Areas
  - 33CFR 165.10

- Restricted Waterfront
  - 33CFR165.40

- Naval Protection Zones
  - 33CFR165.2010
Marine Events

- Administrative Review
- Safety Review
- Environmental Review
- Permitting
- Monitoring and Follow Up
- Special Local Regulations
  - 33 CFR 100
Marine Events Cont.

• At least 135 days prior to the Marine event, sponsors are required to submit to Sector Key West the Application for Approval of Marine Event (form CG-4423)

• Failure to submit a required application would constitute a violation of Title 33, Chapter 25 U.S. Code, Section 1233 implemented by 33 CFR 100 and could result in civil penalty enforcement. Violation of 33 CFR 100 carries a maximum civil penalty of $2,500.00 for each violation.

Marine Permit Criteria:

• An organized event
• Of limited duration
• With a prearranged schedule
• Likely to interfere with navigation
• Likely to introduce extra or unusual hazards
• Navigation cannot be addressed through the Rules of the Road
One of the 11 CG Missions

- 3rd in % CG operating expenses
- Behind: 1 Security & 2 Drug Interdiction

- WAMS
- Positioning
- Discrepancies
- Auxiliary
- Private Aids (PATON)
33 CFR 66 authorizes PATON -CG-2554 PRIVATE AIDS TO NAVIGATION APPLICATION

33 CFR 66.01–20 Inspection
• All classes of PATON shall be maintained in proper operating condition.

14 USC 83. Unauthorized aids to maritime navigation;
No one can establish aids without approval of Coast Guard
Whoever violates the provisions of this section... shall be guilty of a misdemeanor and shall be fined not more than $1,500 for each offense. Each day during which such violation continues shall be considered as a new offense.
What constitutes PATON?

PATON
The term private aid to navigation means any device external to a vessel or aircraft intended to assist a navigator in determining position or safe course, provide marine information, or to warn of dangers or obstructions to navigation.
<table>
<thead>
<tr>
<th>Airport Security Zone Lighted Buoys</th>
<th>Aquaculture Buoys/Lights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Ramp Daybeacons</td>
<td>Cable Crossing Lighted Buoys</td>
</tr>
<tr>
<td>Cape Wind Lights</td>
<td>Clam Line Buoys</td>
</tr>
<tr>
<td>Dam Lights</td>
<td>Dam Warning Buoys</td>
</tr>
<tr>
<td>Deepwater Port Lighted Buoys</td>
<td>Dock Lights</td>
</tr>
<tr>
<td>Exclusion Area Buoys</td>
<td>FAD Site Buoys</td>
</tr>
<tr>
<td>Ferry Landing Lights</td>
<td>Ferry Terminal Lights</td>
</tr>
<tr>
<td>Fish Trap Lights</td>
<td>Fishing Reef Buoys</td>
</tr>
<tr>
<td>Flood Protection Structure Lights</td>
<td>Floodgate Lights</td>
</tr>
<tr>
<td>Log Storage Lights</td>
<td>Instrumentation Tower Lights</td>
</tr>
<tr>
<td>Mooring Buoys</td>
<td>Meteorological Light Towers</td>
</tr>
<tr>
<td>No Discharge Buoys</td>
<td>Naval Security Zone Buoys</td>
</tr>
<tr>
<td>Outfall Buoys</td>
<td>No Sail Buoys</td>
</tr>
<tr>
<td>Pier Lights</td>
<td>Oil Boom Deployment Buoys</td>
</tr>
<tr>
<td>Political Boundary Buoys</td>
<td>Outfall Daybeacons/Lights</td>
</tr>
<tr>
<td>Power Cable Warning Daybeacons</td>
<td>Pipeline Lights</td>
</tr>
<tr>
<td>Stop Signs???</td>
<td>Bubba Sticks???</td>
</tr>
</tbody>
</table>
LIGHT LIST

Volume III

ATLANTIC and GULF COASTS

Little River, South Carolina to Econofina River, Florida
(Includes Puerto Rico and the U.S. Virgin Islands)

This Light List contains a list of lights, sound signals, buoys, daybeacons, and other aids to navigation.

IMPORTANT
THIS LIGHT LIST SHOULD BE CORRECTED EACH WEEK FROM THE LOCAL NOTICES TO MARINERS OR NOTICES TO MARINERS AS APPROPRIATE.
<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Description</th>
<th>Aid Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11705</td>
<td>Carysfort North Reef N Obstruction Day beacon</td>
<td>25-13-41.000N</td>
<td>080-12-26.000W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11705.5</td>
<td>Carysfort North Reef South Obstruction Day beacon</td>
<td>25-13-11.700N</td>
<td>080-12-42.400W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11725</td>
<td>Key Largo Dry Rocks Obstruction Day beacon</td>
<td>25-07-27.200N</td>
<td>080-17-56.500W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11730</td>
<td>Grecian Rocks Obstruction Day beacon</td>
<td>25-06-42.000N</td>
<td>080-18-11.500W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11740</td>
<td>Mosquito Bank Obstruction Day beacon</td>
<td>25-04-42.000N</td>
<td>080-22-30.000W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11750</td>
<td>French Reef Obstruction Day beacon</td>
<td>25-02-08.660N</td>
<td>080-21-00.795W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11755</td>
<td>Sand Island Obstruction Day beacon</td>
<td>25-01-11.100N</td>
<td>080-22-06.600W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11765</td>
<td>Molasses Reef South Obstruction Day beacon</td>
<td>25-00-37.834N</td>
<td>080-22-40.662W</td>
<td>NW on pile worded DANGER SHOAL.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11765.1</td>
<td>Day beacon 4</td>
<td>25-04-54.500N</td>
<td>080-25-46.100W</td>
<td>TR on pile.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11765.2</td>
<td>Day beacon 6</td>
<td>25-05-06.200N</td>
<td>080-25-49.500W</td>
<td>TR on pile.</td>
<td>Private aid.</td>
</tr>
<tr>
<td>11765.3</td>
<td>LIGHT 7</td>
<td>25-05-17.400N</td>
<td>080-25-49.400W</td>
<td>SG on pile.</td>
<td>Private aid.</td>
</tr>
</tbody>
</table>
### Local Notice to Mariners (Updated Weekly)

- [https://www.navcen.uscg.gov](https://www.navcen.uscg.gov)

<table>
<thead>
<tr>
<th>Number</th>
<th>Light Name</th>
<th>Range</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>11825</td>
<td>Largo Sound Channel Daybeacon 11</td>
<td>OFF STA/STRUCT DEST/HAZ NAV/TRUB</td>
<td>07/18</td>
</tr>
<tr>
<td>11855</td>
<td>Largo Sound Channel Daybeacon 19</td>
<td>HAZ NAV/TRLB</td>
<td>23/17</td>
</tr>
<tr>
<td>11870</td>
<td>Largo Sound Channel Daybeacon 22</td>
<td>STRUCT DEST/HAZ NAV/TRLB</td>
<td>44/17</td>
</tr>
<tr>
<td>11875</td>
<td>Largo Sound Channel Daybeacon 23</td>
<td>STRUCT DEST/HAZ NAV/TRLB</td>
<td>44/17</td>
</tr>
<tr>
<td>11885</td>
<td>Marvin D Adams WW Light B</td>
<td>LT EXT</td>
<td>47/17</td>
</tr>
<tr>
<td>12065</td>
<td>Tavernier Creek Light</td>
<td>STRUCT DEST/TRLB</td>
<td>03/18</td>
</tr>
<tr>
<td>12195</td>
<td>Hen And Chickens Shoal Light 40</td>
<td>HAZ NAV/LT EXT/DAYMK MISSING</td>
<td>38/17</td>
</tr>
<tr>
<td>12495</td>
<td>John Sawyer Bank Shoal Light</td>
<td>STRUCT DEST/HAZ NAV</td>
<td>15/18</td>
</tr>
<tr>
<td>12650</td>
<td>Big Spanish Channel Daybeacon 49</td>
<td>STRUCT DEST/TRUB</td>
<td>38/17</td>
</tr>
<tr>
<td>12665</td>
<td>Harbor Key Bank Daybeacon 55</td>
<td>HAZ NAV/TRLB</td>
<td>38/17</td>
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<tr>
<td>13135</td>
<td>Alligator Reef Daybeacon 43</td>
<td>STRUCT DEST/TRUB</td>
<td>52/17</td>
</tr>
<tr>
<td>13720</td>
<td>East Washerwoman Shoal Light 49</td>
<td>STRUCT DMGD</td>
<td>38/17</td>
</tr>
<tr>
<td>13730</td>
<td>Sister Creek Daybeacon 3</td>
<td>HAZ NAV/DAYMK MISSING/TRLB</td>
<td>46/17</td>
</tr>
<tr>
<td>13740</td>
<td>Sister Creek Daybeacon 6</td>
<td>STRUCT DEST/HAZ NAV/TRLB</td>
<td>46/17</td>
</tr>
<tr>
<td>13790</td>
<td>Boot Key Harbor Daybeacon 14</td>
<td>TRUB</td>
<td>48/17</td>
</tr>
<tr>
<td>14490</td>
<td>Stock Island Approach Channel Light 32</td>
<td>DAYMK MISSING</td>
<td>42/17</td>
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<tr>
<td>15370</td>
<td>Calda Channel Daybeacon 12</td>
<td>STRUCT DEST/TRUB</td>
<td>45/17</td>
</tr>
</tbody>
</table>
Outreach

- MTS Liaison
- Harbor Safety Committee
- Propeller Club
- Area Maritime Security Committee (AMSC)
- Other industry committees/meetings
- Waterway Analysis & Mgmt System (WAMS)
- Other CG
  - ATON units, VTS, Stations/Cutters
Harbor Safety Committees are local committees established and controlled by local non-Federal entities to address local port or waterway issues, such as waterway safety, security, mobility and environmental concerns.

1. Improve safety, national security, environment, and quality of life

2. Open communication and partnerships

3. Consensus-based approach to addressing port issues
2016 TOP FIVE STATES for Boating Accidents:

- FLORIDA: 671
- California: 369
- New York: 174
- North Carolina: 162
- Texas: 154

http://myfwc.com/boating/safety-education/accidents/
Boating Accident Review
Monroe County has the most boating and personal watercraft accidents in Florida!

### 2016 Statistics

#### Vessels

<table>
<thead>
<tr>
<th>County</th>
<th>Recreational Vessels</th>
<th>Total</th>
<th>Accidents</th>
<th>Fatalities</th>
<th>Injuries</th>
<th>Property Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monroe</td>
<td>26,233</td>
<td>29,106</td>
<td>105</td>
<td>3</td>
<td>52</td>
<td>$1,061,329</td>
</tr>
<tr>
<td>Miami-Dade</td>
<td>63,670</td>
<td>66,422</td>
<td>67</td>
<td>7</td>
<td>37</td>
<td>$438,000</td>
</tr>
</tbody>
</table>

#### Personal Watercraft

<table>
<thead>
<tr>
<th>County</th>
<th>Pleasure</th>
<th>Rental</th>
<th>Total</th>
<th>Accidents</th>
<th>Fatalities</th>
<th>Injuries</th>
<th>Property Damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monroe</td>
<td>1830</td>
<td>409</td>
<td>2,239</td>
<td>32</td>
<td>1</td>
<td>33</td>
<td>$53,901</td>
</tr>
<tr>
<td>Miami-Dade</td>
<td>13,614</td>
<td>612</td>
<td>14,226</td>
<td>20</td>
<td>4</td>
<td>16</td>
<td>$27,300</td>
</tr>
</tbody>
</table>
Port Preparation and Recovery:

- Hurricanes/Heavy Weather or other Natural Disaster
- Salvage/Pollution Recovery Operations
- Maritime Security Incident
Waterways Management and Improvement

• Waterways Analysis and Management System (WAMS)
• Dredging
• Waterway Surveys
• Optimize Aids to Navigation
FLORIDA KEYS MARINE EVENTS:
High Speed Boat Races
Swims
Paddle Events
Fireworks
Parades
Common HSC Organization Structure:

**VOTING:**
- Seal of the City of Key West, Florida
- Village of Islands
- Seal of the City of Islamorada
- Conch Republic
- Key Largo
- Welcome to Key Largo
- The Florida Keys
- U.S. Army Corps of Engineers
- Florida Department of Transportation
- Florida Fish and Wildlife Conservation Commission
- Florida Department of Environmental Protection

**NON-VOTING:**
- United States Coast Guard
- Naval Air Station Key West, Florida
- National Oceanic and Atmospheric Administration
- U.S. Department of Commerce
- FEMA
Questions?

24-hr Command Center: 305-292-8727
WWM Office: 305-292-8768
SKWWaterways@uscg.mil
https://homeport.uscg.mil/port-directory/key-west