

Small Boat Safety Manual

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- I Department of Fisheries Float Plan**
- II Boat Operator Statement of Responsibility**
- III Mandatory Safety Equipment List**
- IV Sample of AꝀ**

Small boat operations involve certain risks that must be addressed prior to beginning any fieldwork. Knowing what equipment is required to be on the boat, the rules of the road, understanding the weather and its effects on the marine environment, and even the variations in operating one type of boat compared to another are all obstacles that must be overcome in order to minimize the risks to those on board, as well as maximizing efficiency in data collection.

The operator shall be familiar with the operation of the equipment and shall inspect all emergency equipment prior to departure (see Appendix IV for a list of required equipment). Special attention should be given to Personal Flotation Dev

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1. Perform a functional inspection of the boat and all equipment.
 - a. Ensure the plug is in the drain hole on the transom.
 - b. Check all fluid levels in the vessel.
 - c. If you are using a jet boat, grease the jet unit.
 - d. Conduct a vessel "walk around."
 - e. Check for all safety equipment, including PFDs and communications equipment.
2. Assess all environmental risks, including weather conditions, river/lake/sea conditions, and so forth.
3. Inform all passengers of emergency procedures, to include man-overboard, fire, and abandonment and methods for seeking assistance.
4. Inform all passengers of the location of emergency equipment including PFDs.
5. Complete a verbal risk assessment with all passengers, to discuss additional hazards and appropriate precautions for the particular environment, weather and objectives of the operation.
6. File a Float Plan with a responsible shore contact person (see Appendix I). Please note: All the information on the Float Plan is required. Do not leave sections blank, this document is your lifeline, take the time to complete all information. Leave one copy of the Float Plan with a responsible party.

It is expected that all operators and passengers will adhere to the guidelines in the safety manual and follow boating rules of the road. This includes, but not limited to, appropriate and safe behavior, PFD usage, and remembering you represent the UAF Department of Fisheries when you are on the water and in transit.

Conduct all pre-o

2. Secure lines in the boat so they won't get caught in a trailer wheel
3. After hooking up the trailer check the following:
 - a. The hitch is secure and the lock/pin is in place.
 - b. The trailer chains are crossed under the hitch and secured so that the end of the hook is facing the boat.
 - c. The emergency brake cable is secured to the vehicle with the end of the hook facing the boat.
 - d. All of the lights are functioning properly.
 - e. The tires are properly inflated (NOTE: recommended psi depends on the specific boat & trailer). Check for a spare tire and make sure it is inflated properly.
 - f. The trailer jack is fully raised or stored prior to driving
4. A spotter standing outside of the University truck when a trailer with or without a vessel during backing is required. The spotter should always stay in the driver's sight.

Before backing the trailer into the water check the following items:

1. Drain plug(s) are installed.
2. The securing straps on the back of the boat have been removed.
3. Disconnect the trailer lights.
4. The battery switch has been turned on (if applicable).
5. The fuel switch is in the on position (if applicable).
6. The trailering lock is off (if the trailer has one).
7. The tilt support lever is up. Motors are up.
8. All of your gear has been loaded into the boat. You are ready to depart.

Once the boat has been backed into the water, the driver should secure the boat to a dock before releasing the boat from the trailer. Once the engine is started, the driver should allow it to warm up briefly until you are confident that it will not stall.

Retrieving the boat can be difficult if the conditions are unfavorable. Wind and currents should be considered on your approach to the trailer. Once you have the boat on the trailer, it should be secured by the winch. A security chain pull out and into the prep area and do the following:

1. Secure the rear of the boat with the straps.
2. Raise the engine, lower the trailer, and secure the boat to the trailer. If there is a kicker motor on the boat, it should be secured by the winch. The motor is locked in the down position. Some vessels will have a security chain pull out.

Once the boat is secured to the trailer, the driver should allow it to warm up briefly until you are confident that it will not stall.

Administrative Manager of the Lena Point Building will contact the appropriate Risk Management personnel. The boat operator will be required to give a full written accounting of the accident/incident. In the event of an accident or incident, the Boat Safety Committee will determine continued approval to serve as a boat captain on a case-by-case basis.

Definitions:

are defined as events that result in minor injuries (cuts and scrapes) or “cosmetic” damage to vehicles or vessels (dents and scratches that don’t affect the operation of the vehicle or vessel.) Incidents also include near misses, such as when a situation occurred that could have led to an accident, which should be reported as well.

are defined as events in which a serious injury requiring medical attention beyond basic first aid occurred. An accident is also defined as a situation where major property damage occurred.

Reporting guidelines and resources:

- 1. Any accident and or incidents no matter how minor are required to be reported to the Administrative Manager of the Lena Point Building and/or the Chair of the Department of Fisheries within 12 hours of occurrence. Failure to report injuries within this time could result in Worker’s Compensation claims being denied.**
- 2. Any accident resulting in a fatality must be reported to the Administrative Manager of the Lena Point Building and/or the Chair of the Department of Fisheries immediately after emergency personnel have been contacted.**
- 3. Reporting should follow the flow chart in Appendix II.**

This 2 page document is for your benefit and is required. In the event of mechanical difficulties, weather related problems, or other boating hazards, having a plan and the proper equipment to deal with these issues can make a huge difference in the outcome. Fill out this form completely and leave it with a responsible party on shore. In the event your return is delayed and communications are lost, this shore party should activate the appropriate response as detailed on this form. It is recommended that you bring a second copy with you in the boat. Please be specific in the areas you will be operating in.

Name and description of vessel: _____

Purpose of trip: _____

Operator Name: _____ Telephone #: _____

Local address: _____

Principal Investigator/Academic Advisor/Supervisor _____ On board? _____

PFDs (#:)*	Paddles	Bell/whistle/horn*
Working Radio*	Day Signals *	Cell phone (#:)
Monitoring channel: _____	Night Signals*	Exposure Protection
Anchor	Line (Amount:)	Fire Extinguisher* ¹
Bailing Device	Tool kit	Satellite phone
Compass and Charts	First-aid kit	* required equipment
Food /Water		¹ see USCG regulations for details

CFOS equipment checked out: _____

Shore Contact: _____ Phone# _____

If no contact is made with Shore Contact by: _____ (time), the contact will:

- _____ at (907) _____. After contacting the Coast Guard, call the Administrative Manager.
- _____ at 1-(800)-420-7230. After contacting the Coast Guard, call the Administrative Manager.

FOR TRIPS OVERNIGHT: the Shore Contact will be contacted each day by the

: _____ Time: _____ : _____ Time: _____

Departing from: _____ Returning to: _____

(Include all destination(s) including planned route):

: _____

Other travel notes:

Forecast:

Source:

Wind conditions:

Sea conditions/Tides and/or River conditions/Discharge levels:

Any current weather advisories?

Incident and Accident Reporting

Accident Investigation/Notification Procedures

1. PURPOSE: The purpose of this procedure is to establish a uniform method for reporting and investigating accidents and incidents involving students, faculty, staff, or visitors on the campus of the University of North Alabama.

2. SCOPE: This procedure applies to all accidents and incidents involving students, faculty, staff, or visitors on the campus of the University of North Alabama.

3. RESPONSIBILITIES:

- 3.1. Reporting:** Any accident or incident involving students, faculty, staff, or visitors on the campus of the University of North Alabama must be reported immediately to the appropriate authority.
- 3.2. Investigation:** The appropriate authority will initiate an investigation of the accident or incident and will determine the cause of the accident or incident.
- 3.3. Notification:** The appropriate authority will notify the appropriate parties of the accident or incident and will provide information regarding the investigation and the results of the investigation.

4. PROCEDURE:

- 4.1. Reporting:** Any accident or incident involving students, faculty, staff, or visitors on the campus of the University of North Alabama must be reported immediately to the appropriate authority.
- 4.2. Investigation:** The appropriate authority will initiate an investigation of the accident or incident and will determine the cause of the accident or incident.
- 4.3. Notification:** The appropriate authority will notify the appropriate parties of the accident or incident and will provide information regarding the investigation and the results of the investigation.

5. REFERENCES:

- 5.1. University of North Alabama Policy Manual
- 5.2. University of North Alabama Student Handbook
- 5.3. University of North Alabama Faculty Handbook
- 5.4. University of North Alabama Staff Handbook

6. APPENDICES:

- 6.1. Accident Investigation/Notification Form
- 6.2. Accident Investigation/Notification Report

7. REVISIONS:

- 7.1. This procedure was revised on 10/1/2018 to reflect changes in the University of North Alabama Policy Manual, Student Handbook, Faculty Handbook, and Staff Handbook.

8. APPROVAL:

Approved by the University of North Alabama Board of Trustees on 10/1/2018.

9. CONTACT:

For more information regarding this procedure, contact the appropriate authority.

10. DISTRIBUTION:

This procedure is distributed to all students, faculty, staff, and visitors on the campus of the University of North Alabama.

APPENDIX III

I understand that as a designated boat operator I am responsible for all aspects of boating operations, regardless of the presence of any senior staff or faculty in the boat. These responsibilities include, but are not limited to, the safe navigation of the vessel to and from the site(s) of operation, the safe operation of all equipment, safe transport of the vessel to and from the launch site, insuring that all required operational and safety equipment is on board, and enforcing safe behavior of all persons on board. I have thoroughly read and understand the contents of the Small Boat Use & Safety manual.

Boat Operator

DATE:_____

Print, sign and submit to the Administrative Manager before operating any boats.

APPENDIX IV



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4.2.2.1.1.

One approved device on each carburetor
 1965 gasoline engines installed after April
 25, 1940, except outboard motors. Device
 must be marked to show compliance with
 SAE J-1928 or UL 1111 Standards.

* When fixed fire-extinguishing system is installed in machinery spaces, it will replace one B-1 type portable fire extinguisher.

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APPENDIX V.

AMSEA Vessel Operation Drill Sets, Certification Skills and Check o List

Verbalize ALL Throttle And Direction Changes, Wait for Receive Crew Responses.

1. Slalom Course
2. Figure Eights
3. Object Avoidance/Advance & Transfer
4. Stopping Distance (Safe Speed)

Return

1. Begin... Bow-on to first buoy
2. Back thru all (engines trimmed up lifts stern...)
3. Variations 1 – 2 engines
4. Bow thru all both engines

(Engine(s) Trim, Advance and Transfer, Wheel & Throttle Ctrl, Crew Positioning and Help, Lookouts, Close-Qtrs...)

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1. Begin 8s at minimum planning speed.
2. Turn as tight around buoys as possible.
3. Increase speed by approx 500 rpms and control max. to short of hooking a chine.
This is NOT an E or J turn but continuous turns.

(Hands on Wheel & Throttle, Centrifugal force, Advance and Transfer, Trim and Throttle, Safe Turning Speed, Verbalization, Crew Positioning, Lookouts assigned)

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or

Certification of operators is intended to assure that any person who operates a NOAA small boat has passed minimum criteria relating to knowledge and skill. The wide range of operational risks inherent in the vast array of NOAA small boat operations dictates that field activities

