



International Offshore Safety at Sea Hands-On Training

Marine Trades Association of Maryland

MITAGS

March 28 and 29

Captain Jonathan Kabak

- STCW Master Unlimited
- 1600/3000 Auxiliary Sail
- US Sailing Safety at Sea Committee
- Chair Moderator Working Group
- CEO, Maritime Rhode Island
- Storm Trysail Club Member
- NYYC Member



I'm Also a Recreational Sailor Too!



Why Are We Here?



Recent Marine Casualties

2024 Newport Bermuda Race

- 2 Abandonments of vessels enroute to Bermuda

- 1 Abandonment on return from Bermuda

2024 Chicago Yacht Club Race to Mackinac

- 1 Crew Overboard

- 3 Catastrophic rigging failures/dismastings

2024 Sydney Hobart Race

- 2 Deaths resulting from trauma from main boom or mainsheet

- 1 Crew Overboard



Recent Marine Casualties

November 2025- New Zealand Sailor dies from entanglement with winch during round the world voyage

January 2026- German sailor dies in Trans-Atlantic race



Why Are We Here?

Yacht Name: _____ Sail No: _____ Captain: _____

The following members of the yacht's Newport Bermuda Race® crew have completed onboard drills for the topics listed:

- | | | |
|---|--|---|
| <input type="checkbox"/> Man Overboard | <input type="checkbox"/> Recovering MOB from the water | <input type="checkbox"/> Abandoning Ship |
| <input type="checkbox"/> Dismasting | <input type="checkbox"/> Sailing with the Storm Trysail | <input type="checkbox"/> EPIRB |
| <input type="checkbox"/> Life Rafts | <input type="checkbox"/> Lifejackets and Harnesses | <input type="checkbox"/> Fire Prevention/Fighting |
| <input type="checkbox"/> Pyrotechnics | <input type="checkbox"/> Rudder/Steering Loss or Failure | <input type="checkbox"/> Preventer Rigging |
| <input type="checkbox"/> Communications Equipment | <input type="checkbox"/> AIS / Personal Crew Overboard Beacons | <input type="checkbox"/> Satellite Phone Use |



PUGET SOUND

KOMO
NEWS
abc 4

SAILORS RESCUED



Incident Reports and Hanson Medals



REPORT ON 2024 CHICAGO YACHT CLUB RACE TO MACKINAC CREW OVERBOARD INCIDENT - CALLISTO

This report details the crew overboard (COB) incident from the J/125 yacht Callisto, and successful recovery by the Sierra Cruz 52 yacht Madcap in a late evening storm on Lake Michigan on Saturday, July 13, 2024. During the 2024 Chicago Yacht Club Race to Mackinac ("Race"), Callisto and Madcap were competing in the Race's Section 3 and Section 2 respectively. Both sections had started early that afternoon east of the Chicago Harbor Light, and at the time of the COB event Callisto had completed approximately 97 nm of the 288 nm race to a position 25 nm from the Michigan shore to the east, 35 nm from the Wisconsin shore to the west, and 50 miles north of the Illinois-Wisconsin border (See Appendix F for overview map).

A panel was commissioned to compile interviews, review the incident details, and provide findings and recommendations for the Chicago Yacht Club Mackinac Committee. As well, the panel hopes that by writing this report and making it publicly available, the broader sailing community will learn from this incident. The panel believes that the safety and preparedness of all will benefit from the work here.

Broadly, the crews on both Callisto and Madcap were well versed in best off safety practices as well as each vessel's individual safety equipment and procedures. The fact that Callisto was transmitting AIS data and Madcap was actively rep AIS position data of nearby boats contributed significantly to the successful recovery. Both vessels' crews acted quickly in response to the COB, however, incident highlights that even highly experienced crews are not immune to management practices that promote ineffective divisions of responsibility and redundancy of roles aboard. Gaps in these best practices aboard one vessel, while the implementation of these concepts by the other vessel efficient and effective rescue.

In addition to video interviews and correspondence with Jim Murray and Dougarty Callisto and Marian and John Hostain (Madcap), details to the incident were contributed by correspondence with Jason Andrews (Callisto), Evana (Pummees Friess, skipper), and Dan Lewis (MC'2, skipper).

Chicago Yacht Club Race to Mackinac
Callisto Crew Overboard Incident Panel
March 28, 2025



INCIDENT REPORT CONDUCTED UNDER THE AEGIS OF US SAILING, THE BERMUDA RACE ORGANIZING COMMITTEE AND THE CRUISING CLUB OF AMERICA



Photo: Daniel Fern

Abandonment of S/V Gunga G
June 25, 2024 (During 2024)

Contributors: Sheila McCurdy, Ernest Goshalk
Strasberg, M.D.
Submitted February 12, 2025



INCIDENT REPORT CONDUCTED UNDER THE AEGIS OF US SAILING, THE BERMUDA RACE ORGANIZING COMMITTEE AND THE CRUISING CLUB OF AMERICA



Photo: Dan

Rescue of her Cr
July 2, 2024



INCIDENT REPORT CONDUCTED UNDER THE AEGIS OF US SAILING, THE BERMUDA RACE ORGANIZING COMMITTEE AND THE CRUISING CLUB OF AMERICA



The Sinking of the Yacht Alliance, and the Rescue of her Crew by Yacht Callisto, Assisted by Yacht Enter.
Submitted February 12, 2025, with updates for facts and an additional recommendation on March 4, 2025





Safety at Sea Training

Original International Offshore Safety at Sea Certificate

(World Sailing Compliant)

Completion of 15 Module On-Line Training

or

Completion of in-person Offshore Safety at Sea course

and

Attendance at a US Sailing sanctioned Hand-On training course

Refresher International Offshore Safety at Sea Certificate

Completion of in person Hand's On training

Completion of online modules 11-15 if not previously completed



What's the difference between a professional mariner and a recreational sailor?



You Can't Buy Safety

Purchase-Safety Equipment

Engage in-Risk Management and Mitigation

Work to- Maintain Situational Awareness



Responsibility and accountability

Chain of Command

Situational Awareness

Crew Resource Management

Ensure all crew know they are responsible for observing and communicating changing conditions



Predeparture Risk Assessment and Briefing

- GAR Assessment
- Everyone knows how to start the engine
- How to use the VHF, SSB, Sat Phone, Iridium GO
- When “don’t we wear PFDs?”
- Don’t do a great job of convincing yourself you should go out there!



Post Voyage Debrief

- ✓ Not just about the cocktails and war stories
- ✓ Where can we do better?
- ✓ Who is making the change?
- ✓ Did we have a good time?
- ✓ Did we learn something?
- ✓ Ten fingers, twelve toes?



The Seven "P" Principle

Prior

Proper

Planning

Prevents

Piss

Poor

Performance



The "Safety Mindset"

Really the Risk Management/Mitigation Mindset

In the event of an Emergency we will reconvene in this space

In the event there is an Emergency inside the Main Building we will muster at the far end of the parking lot by the Flare Training Area



MTAM S@S Sunday 3/29/2026				
	B/W Check	Blue	Yellow	Red Stars
0730-800	Registration			
0800-0815	Welcoming Remarks			
0815-1000	Lessons Learned/Why We're Here/Crisis Management and Comms			
1015-1115	Damage Control	Flares/Fire Fighting	Communications	Pool
1115-1215	Pool	Damage Control	Flares/Fire Fighting	Communications
1215-1300	Lunch			
1300-1345	Crew Reboarding/MOB Response			
1400-1500	Communication	Pool	Damage Control	Flares/Fire Fighting
1500-1600	Flares/Fire Fighting	Communications	Pool	Damage Control
1615-1700	Things That Make You Go Hmmm...End of Day Topics			
1700-1730	Questions, Thank Yous, Good Byes			





MAYDAY MAYDAY MAYDAY: Crisis Management Communications, and Planning



Group Exercise

Time: 1330 local time Winds SE'ly F4 Seas 3-5' Sail Plan: Full Main and #2Jib

You are 13 days into an 21 day passage between Astoria and Oahu aboard a 45' 1980's racer/cruiser. While reaching in moderate sea conditions you hear a loud BANG and the stern of the vessel lifts out of the water and lurches to starboard. Crew are thrown off of their feet down below and within a few seconds an alarm can be heard.

Now

What????????????????



How do you respond?

Working in your groups, decide what your response plan will be.

You can utilize any equipment that you would normally carry aboard

Please indicate:

Where the particular item or piece of equipment is located or stowed

Who on board is familiar with its operation

How many times those on board have trained or practiced operation, deployment, use, etc...

Indicate your prioritization (What did you do first, second, third,...)



Timeline: Minute 1

Accountability/Initial Response

Response

Muster All Hands

Everyone in Life Jackets

Preparation

Develop a Station Bill

List of all persons aboard

Initial responsibilities in an emergency situation

Man Overboard

Fire/Flooding

Abandon Ship

Spreads workload



What is a Station Bill?

ARTICLE NUMBER	RATING	FIRE AND EMERGENCY STATIONS	ARTICLE NUMBER	BOAT NUMBER	ABANDON SHIP AND BOAT STATIONS
8	MASTER	ON THE BRIDGE. IN COMMAND, ALL OPERATIONS.	8	1	IN COMMAND. ON BRIDGE IN CHARGE ALL OPERATIONS.
1	CHIEF MATE	AT SCENE OF EMERGENCY, IN CHARGE.	1	2	IN COMMAND. IN CHARGE LAUNCHING LIFEBOATS AND/OR RAFTS.
2	2ND MATE	AT SCENE OF EMERGENCY, ASSIST AS DIRECTED.	2	1	2ND IN COMMAND. PREPARE LIFEBOATS FOR LAUNCHING.
3	3RD MATE	RELIEVE BRIDGE WATCH.	3	2	2ND IN COMMAND. RELIEVE BRIDGE WATCH.
4	RADIO OPERATOR	RADIO ROOM, AT COMMUNICATIONS CONSOLE.	4	1	ATTEND MASTERS COXSWAIN. PROVIDE EMERGENCY TRANSMITTER.
5	POWEN/A.B.	EMERGENCY SQUAD PROVIDE LIFELINE AND HAWSERS.	5	2	RELEASE AFT GRIPPE ASSEMBLY, STAND BY WINCH BRAKE.
6	ABLE SEAMAN	EMERGENCY SQUAD PROVIDE FIREMAN'S OUTFIT.	6	1	RELEASE FORWARD GRIPPE ASSEMBLY, SECURE DRAIN CAP.
7	ABLE SEAMAN	EMERGENCY SQUAD PROVIDE M.S.A. AIR PACK.	7	2	RELEASE FORWARD GRIPPE ASSEMBLY, SECURE DRAIN CAP.
8	ABLE SEAMAN	EMERGENCY SQUAD PROVIDE FIRE AX AND SPANNER.	8	1	RELEASE AFT GRIPPE ASSEMBLY.
9	ABLE SEAMAN	EMERGENCY SQUAD PROVIDE M.S.A. RESUSCITATOR.	9	2	LEAD OUT AND ATTEND BOAT PAINTER.
10	ABLE SEAMAN	EMERGENCY SQUAD PROVIDE FIRE EXTINGUISHER.	10	1	LEAD OUT AND ATTEND BOAT PAINTER.
11	ABLE SEAMAN	EMERGENCY SQUAD RELIEVE WHEEL.	11	2	ASSIST AS DIRECTED, ATTEND FORWARD TRAPPING LINE.
12	SHIP UTILITY	EMERGENCY SQUAD PROVIDE 1/2 PINT APPLICATION.	12	1	ASSIST AS DIRECTED, ATTEND FORWARD TRAPPING LINE.

What is a Station Bill?

	General Quarters	Man <u>Over Board</u>	Fire/Emergency	Abandon Ship
Chief Mate	In Charge Forward	In Charge Rescue Boat	In Charge Scene	In Charge Stbd Raft
Assistant Scientist	M	Roster Boat crew / VHF Operator	Roster Secure Lab, Report to Captain	Roster Release Rescue Boat
	U	L Backboard	Bring Fire	406 EPIRB
	S	A Dive Light	Extinguishers, Fire	Flares/Dive light
	T	U Boarding Ladder	Blankets, Fire Axe	Handheld VHF
	E	N	to Muster by Deck	Heaving line
	R	C B	Pump.	Emergency food
		H O	DAMAGE	Emergency Kit
	F	A	CONTROL	Distribute suits
	W	T	TEAM	EPIRB Backup
	D			Assist raft launch
				Assist raft launch
Steward	Secure Galley	Secure Galley, Blankets	Secure Galley, Evacuate Saloon/Library	Food - Distribute exposure suits



<i>Radio Call</i>	Frequency:	High Site:	DF Bearing:
Type of Comms:		Original	Relay
Time:	Date:	UCN:	Initials:

-- Initial SAR Check Sheet --

1. Position	<i>Type of Position:</i> <input type="checkbox"/> Lat/Long <input type="checkbox"/> Geographic Reference		
How determined?			
2. Number of Persons On Board	Adults:	Children:	Total:
3. Nature of Distress (if PIW complete additional PIW box below)			
4. Description of Vessel	Name:	Length:	Type:
	Make:	Color:	
5. Have all persons on board the vessel put on Personal Flotation Devices / adequate number of PFD's available? Y / N			

**** ADVISE REPORTING SOURCE OF INTENDED ACTIONS AT THIS TIME ****

6. Determine Initial Severity / Emergency Phase	
<input type="checkbox"/> Distress <input type="checkbox"/> Dispatch Resources / Activate SAR Alarm <input type="checkbox"/> <i>Advise reporting source of Coast Guard's Actions</i> <input type="checkbox"/> Issue Urgent Marine Information Broadcast (UMIB) <input type="checkbox"/> Brief Sector / District <input type="checkbox"/> Provide emergency instructions to vessel in distress <input type="checkbox"/> Complete additional check-sheets as situation dictates	<input type="checkbox"/> Uncertainty <input type="checkbox"/> Alert <p style="text-align: center;"><i>Additional information is needed</i></p> <p style="text-align: center;"><i>Complete one or more of the following:</i></p> <input type="checkbox"/> Supplemental Check-sheet <input type="checkbox"/> Overdue Check-sheet <input type="checkbox"/> Flare Sighting Check-sheet <input type="checkbox"/> MEDEVAC/MEDICO Check-sheet <input type="checkbox"/> Grounding Check-sheet <input type="checkbox"/> Mass Rescue Operation Supplemental Check sheet



Timeline: Minute 1

Who Knows we are out here?

Response

Establish External Communications

GMDSS

Passive Comms

EPIRB

Active Comms

VHF Radio Call (w/DSC)

MF/HF Call (w/DSC)

Satellite Call to REC

Alternative means of notification

Spot Trackers

Preparation

Float Plan

Programming your MMSI into your Radios

Pre-program the number for local Rescue
Coordination Center (RCC) into Satellite
Phone

Crew training on EPIRB, VHF and Satellite
Communications

Regular logging of position

Vessel information organized in same format
and order that USCG will ask for it.



External Communications

Priorities

Making sure someone knows you are out there and in trouble

Type of trouble is less important in initial phase of emergency

One Way means of communication

EPIRB, Flares, etc...

Two Way means of communication

VHF, MF/HF

Everyone can hear you

Satellite Phone

Only other party can hear you



Two Way Communications

VHF

Line of Sight

MF/HF (SSB)

Signal bounces off Earth's atmosphere

Satellite Phone Systems (Voice and Data)

Inmarsat

Iridium



Globalstar

Starlink



EMERGENCY RADIO PROCEDURES

SPEAK SLOWLY, CLEARLY, & CALMLY


I dentify
S ituation
P osition
Y our I ntent


1. **Make sure the communication equipment is ON**, on **HIGH POWER** and assure that the “SQUELCH” control is adjusted properly.
2. Press the **RED DISTRESS** button **AND HOLD** for 3-5 seconds.
3. Wait for 15 seconds for the transmission to complete.
4. Select **VHF Channel 16**, or other emergency frequency used where you operate.
5. Press microphone button and calmly say, “**MAYDAY - MAYDAY - MAYDAY** This is S/V_____, S/V_____, S/V_____.”
6. State the Nature of Your Distress, Condition of Your Vessel, and Number of Injuries (if any).
7. State Your Location Twice (latitude & longitude, or range & bearing from a known point).
8. Finally state your intent:
 - a. ___Holding position and listening on VHF Channel 16 OR
 - b. ___Making way toward Safe Harbor OR
 - c. ___Launching life raft(s) and Abandoning Ship OR
 - d. ___Other: _____
9. End by saying, “This is S/V _____ . Over.”
10. **Release the microphone button briefly and wait for an acknowledgement.** If no answer, repeat Step 4.
11. If the Coast Guard or another vessel responds, say, “**MAYDAY**, this is S/V_____.”
12. If the situation permits, stand by the radio for further communication with the Coast Guard or another vessel. If no one answers, repeat the above, then try on another channel.

FILL IN NECESSARY INFORMATION ABOVE AND POST NEXT TO RADIO

The life you save may be your own!



Digital Selective Calling (DSC) - An Underutilized Maritime Distress Alerting Option

Question

What is this red **Distress** button for on my marine radio and how does it work?



Photo Credit: ICOM America

VHF DSC Emergency Broadcast

Connect VHF to GPS

Register for a Maritime Mobile Service
Identity (MMSI) #

9 Digit “phone number”

Learn how Digital Selective Calling (DSC)
works

[BoatUS DSC Tutorial](#)



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Two ways to get an MMSI

Compulsory

Traveling outside of US

Vessel is registered in International SAR Database

Required equipment aboard

FCC Station License

\$\$\$

Number is linked to EPIRB registration

Voluntary

For domestic use only

Vessel is registered in USCG SAR Database only

Low fee/no fee for BoatUS members



MMSI For Handheld Radios

VHF Handheld Stations

Wireless Telecommunications

Coast Radio Stations

Ship Exemptions

Ship Radio Stations

VHF Handheld Stations

Information for Great Lakes
Vessels

Maritime Mobile Service

Ship Radio
Stations

Coast Radio
Stations

VHF Handheld
Stations

Ship Exemptions

About Marine Handheld VHF

Handheld Vessel VHF

Coast Station Handheld VHF

Handheld VHF Marine Radios offer flexibility in communications for mariners looking for options beyond fixed-mounted marine radios, be it onboard various vessels or operating on shore in a marina. These radios can offer greater range for communications beyond reach of area cell towers and can be a great asset in emergency situations.

Because modern handheld VHF radios are often DSC-capable, they are able to be programmed with an MMSI number. A marine radio's DSC capability is not able to be used without programming an MMSI into the radio prior to use. By utilizing the properly formatted VHF Handheld MMSI, 8₁M₂I₃D₄X₅X₆X₇X₈X₉, approved by the ITU, marine emergency responders will be aware of your unit's limited power and range capabilities. In GPS equipped DSC radios, this also enables Search and Rescue (SAR) teams to live track the location of mariners in distress. These elements are critical to SAR efforts.

<https://www.fcc.gov/wireless/bureau-divisions/mobility-division/maritime-mobile/vhf-handheld-stations>



EPIRBs/GPS EPIRBs

406MHz Primary frequency

Sends signal to COSPAS/SARSAT Satellites

121.5MHz Secondary frequency

Used as a homing frequency by SAR Aircraft

GPS Enabled EPIRBs (GPIRBS)

Category I

Float Free mount with hydrostatic release

Automatic activation

Found on SOLAS compliant vessels

Category II

Manually activated

Not Float Free



3.16.1 EPIRB



A boat shall carry a 406MHz EPIRB that is properly registered to the boat. This device shall be equipped with an internal GPS.

After January 1, 2028 this device shall be equipped with AIS transmit capability.

beaconregistration.noaa.gov

The screenshot shows a web browser window with the URL <https://beaconregistration.noaa.gov/rgdb/>. The page header includes the NOAA logo and the text "NOAA Satellite and Information Service" and "National Environmental Satellite, Data, and Information Service (NESDIS)". A search bar is present with the text "Search and Rescue Satellite-aided Tracking". The main heading is "UNITED STATES 406 MHz BEACON REGISTRATION DATABASE SYSTEM". Below this, there is a link: "Need help with this page?". The central content area is titled "Beacon Owners" and contains the following text: "Please note that a Beacon ID is required to use the on-line system." followed by a list of instructions: "Click [New Registration](#) to register a new beacon. Also use this option if you have acquired a beacon that was previously registered for a change of ownership.", "Click [Access Beacon Previously Registered By Mail or Fax](#) to create a password for your existing beacon registration that was registered by mail or by fax. This step needs to be completed once for each beacon registration.", "Click [Access Beacon Registrations](#) to access an existing beacon registration. You will need your password to use this option.", "Click [Forgot Password](#) to change a password for an existing beacon registration.", "Click [Create Block Account](#) to create a beacon block user account. Please note that you will need to be already registered in the database and know their respective beacon IDs and passwords to create a block.", "Click [Access Block of Beacon Registrations](#) to access a block of existing beacon registrations.", "Click [Forms](#) to get electronic versions of beacon registration forms." At the bottom of the page, there are navigation links: "[[Log Out](#) | [Home](#) | [Help](#) | [Feedback Survey](#) | [Registration FAQs](#) | [Contact Us](#)]" and "Other Links: | [NOAA](#) | [SARSAT.NOAA](#) | [NESDIS](#) | [OMB AUTHORITY](#)".



Update Registered Beacon

Note: * indicates required field(s)

EPIRB Information

Beacon ID (Unique Identifier Number)

2DCC6 AC3DA FFBF

(15 digit character ID provided by EPIRB manufacturer)

Activation Type

EPIRB Manufacturer ACR

Model No RLB-37

Owner/Operator Information

*Name
(Last First Middle Initial)

*Mailing Address

*City

State Province

ZIP (Postal) code *Country

E-mail

Telephone

* ? Home Work Cell Fax Other

Area Code

? Home Work Cell Fax Other

Area Code

? Home Work Cell Fax Other

Area Code

? Home Work Cell Fax Other

Area Code

Vessel Information

*Usage

Commercial Non-commercial
 Government Military Government Non-military

*Type

Sail: Number of Masts

Power: Fishing Tug Cargo Tanker Pleasure Craft
 Other

Radio Equipment (Check all that apply)

VHF MF HF SSB Other

Vessel Telephone Numbers

Radio Call Sign INMARSAT

Cellular MMSI Number

Federal or State Registration Number



Distress Signals

If necessary to **attract the attention of another vessel**, any vessel **MAY** make light or sound signals that **CANNOT BE MISTAKEN FOR ANY SIGNAL** authorized elsewhere in these Rules, or may direct the beam of her searchlight in the direction of the danger, in such a way as **NOT TO** embarrass any vessel.



Pyrotechnics

Should only be used on the instructions of the person in charge of the craft.

Activated on downwind side of survival craft & only when there is a great chance of the signal being seen



Parachute Flares

- The SOLAS parachute flare is the most powerful distress flare available.
- The intense brilliance of the **SOLAS red** achieves 30,000 candela and a burn time of 40 seconds, to alert others of a distress situation day or night.



White Flare

The **SOLAS white** illuminating flare is designed for use in crisis situations involving poor visibility or darkness, to avoid collision by alerting oncoming vessels to your boat's position, and for search and rescue operations.

The white paras have a brightness of 75,000 candela, a burn time of 30 seconds, and a maximum height of 300 meters.



Hand Held Flares

SOLAS Hand Held Flares

- The SOLAS red flare is designed to show location and allow homing, with one-minute burn and 15,000 candela.
- The SOLAS white flare for distress is designed to avoid collision in poor visibility, with a burn time of 40 seconds and 10,000 candela.
- Each weighs 10 ounces, measures 9 5/8" x 1 3/8" and will not drip molten slag down your arm.



Smoke Signal

SOLAS Orange Smoke Signals

- The burn time on the canister is three minutes, a dense orange smoke excellent for daytime location, weighs 19 ounces and is very portable at 5 5/8" x 3 5/8".
- Buoyant orange smoke for daylight use only
- Produces dense bright orange smoke for 3 minutes
- May not be effective in high winds



Other Means of Attracting Attention

Flashlight suitable for morse signaling

Daylight **signaling mirror**

Whistle

Orange sails in open boat

Searchlight

Table of Lifesaving signals

provided as part of survival craft equipment



IRIDIUM GO, BIVY STICK, ETC....



ACR BIVY STICK

TAKE IT EVERYWHERE, COMMUNICATE FROM ANYWHERE

Stay connected with the ACR Bivy Stick. With 2-way satellite messaging, communicate with loved ones and emergency services beyond cellular coverage. Connect to smartphone via Bluetooth or use as standalone device. Benefit from dedicated SMS mobile number.

- ☑ **100% Global Satellite Coverage**
Send and receive satellite text messages with your phone. Free check-in messages with GPS location shares.
- ☑ **Keep Your Crew Connected with GroupTrack™**
The first satellite messenger with off-grid group messaging and location shares.
- ☑ **Communicate With Emergency Services**
Get rescued anywhere in the world with 365/24/7 SOS monitoring provided by Global Rescue.



STARLINK

RESIDENTIAL

ROAM

BOATS

PERSONAL | BUSINESS



STARLINK FOR BOATS

High-speed internet on the water.
Starting at \$250/mo with a hardware cost of \$2,500.

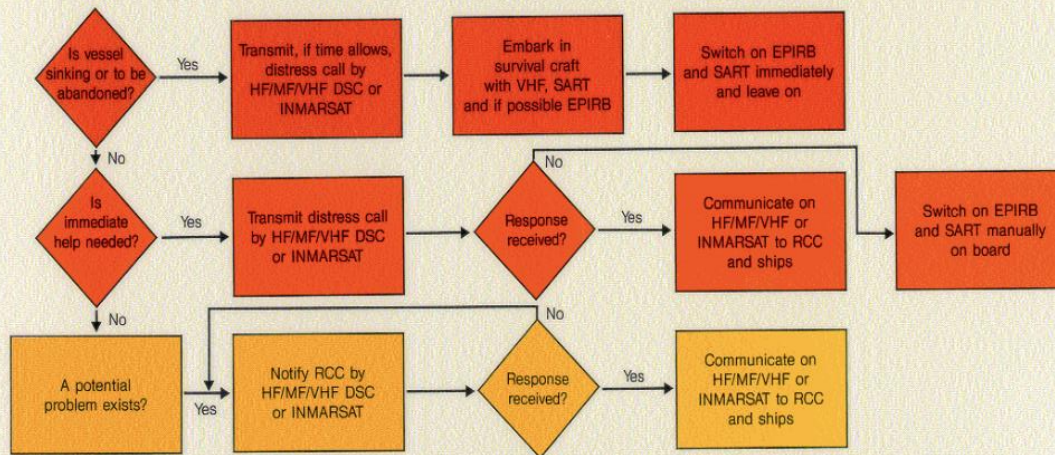


SHIPPING ADDRESS

ORDER NOW



GMDSS OPERATING GUIDANCE FOR MASTERS OF SHIPS IN DISTRESS SITUATIONS



1. EPIRB should float free and activate automatically if it cannot be taken into survival craft.
2. Where necessary, ships should use any appropriate means to alert other ships.
3. Nothing above is intended to preclude the use of any and all available means of distress alerting.

RADIO DISTRESS COMMUNICATIONS

	Digital selective calling (DSC)	Radiotelephone	Radiotelex
VHF	Channel 70	Channel 16	
MF	2187.5 kHz	2182 kHz	2174.5 kHz
HF4	4207.5 kHz	4125 kHz	4177.5 kHz
HF6	6312 kHz	6215 kHz	6268 kHz
HF8	8414.5 kHz	8291 kHz	8376.5 kHz
HF12	12577 kHz	12290 kHz	12520 kHz
HF16	16804.5 kHz	16420 kHz	16695 kHz



International Maritime Organization



Timeline: Minute 2 Preparing to Abandon Ship

Preparation

Pack and stow ditch bag in readily accessible location

Accessible from on deck

All Hands familiar with location

Designated person on Station Bill

Extras

Response

Grab Ditch Bag

Prepare to launch liferaft



Ditch bags

- Bag Floats
- Flares
- Handheld VHF
- Water and food rations
- Thermal Protective Aids (Space Blankets)
- Whistle
- Mirror
- Extra Prescription Meds
- Handheld GPS



USCG

<https://www.boatingsafety.com/safety-tips/building-ditch-bag/>



Timeline: Minute 2

Identifying the source of the water ingress Dewatering

Preparation

Flashlights located at hatch

Floorboard tool readily accessible

Damage Control Kit easily accessible from deck

Test bilge pumps

Plumb emergency pick up to engine raw water pump

Response

Locate source of water

Attempt to stem ingress of water

Patch hole if possible

Start as many pumps as possible



Damage Control Kit

Stuff to...

Plug a leak

Wrap a hose or fitting

Support a structure

Cut away debris

Glue things together



Timeline: Minute 2

Boat Handling

Preparation

Practice shorthanded maneuvers

Practice with emergency steering system

Response

Tacking to bring hull breach out of the water

Altering course to reduce water pressure on hull

Striking sails



Timeline: Minute 4 Develop a Plan

How much time have we bought ourselves?

Are we staying with the boat?

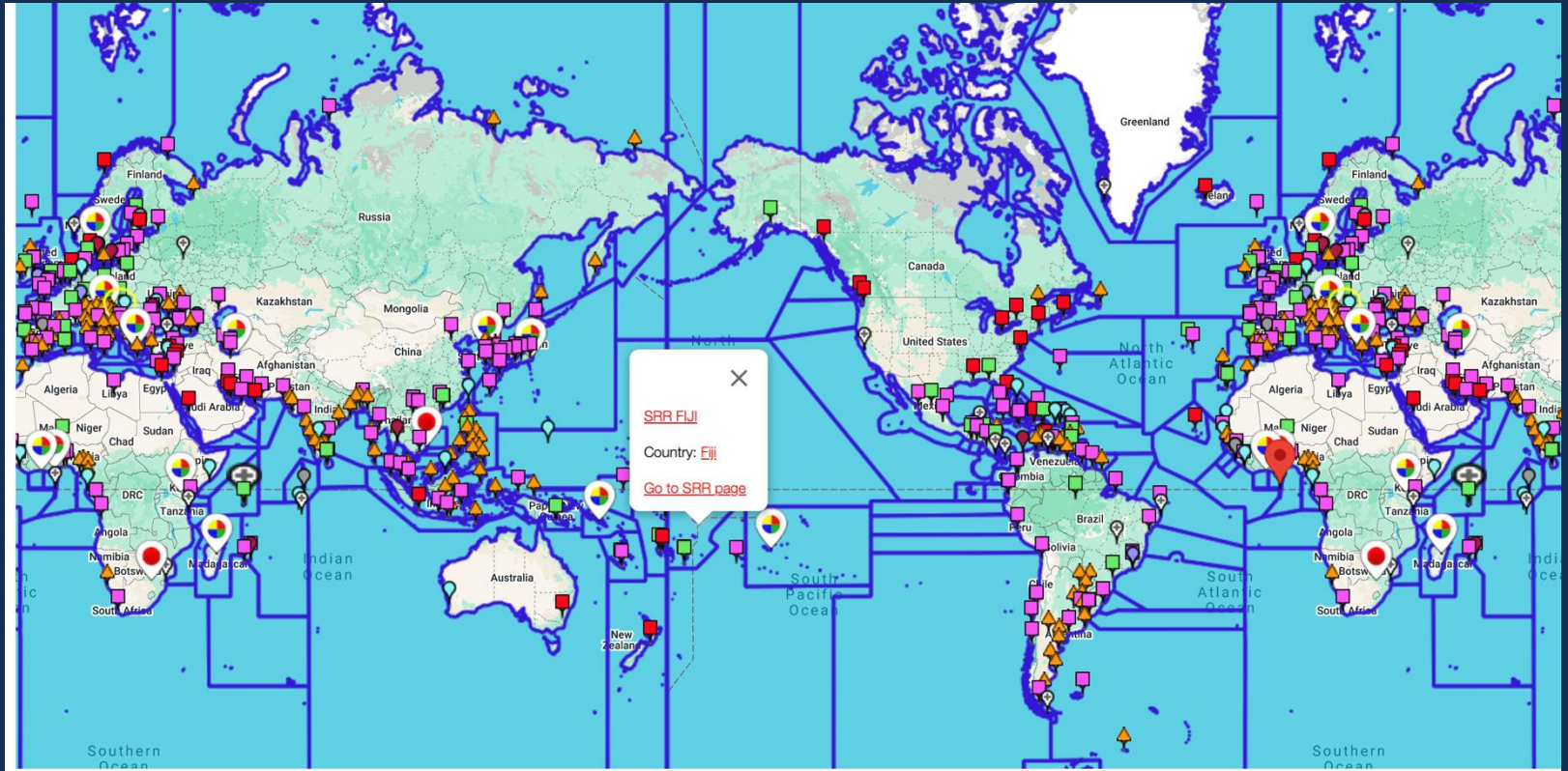
Where should we head toward?

Is anyone injured?

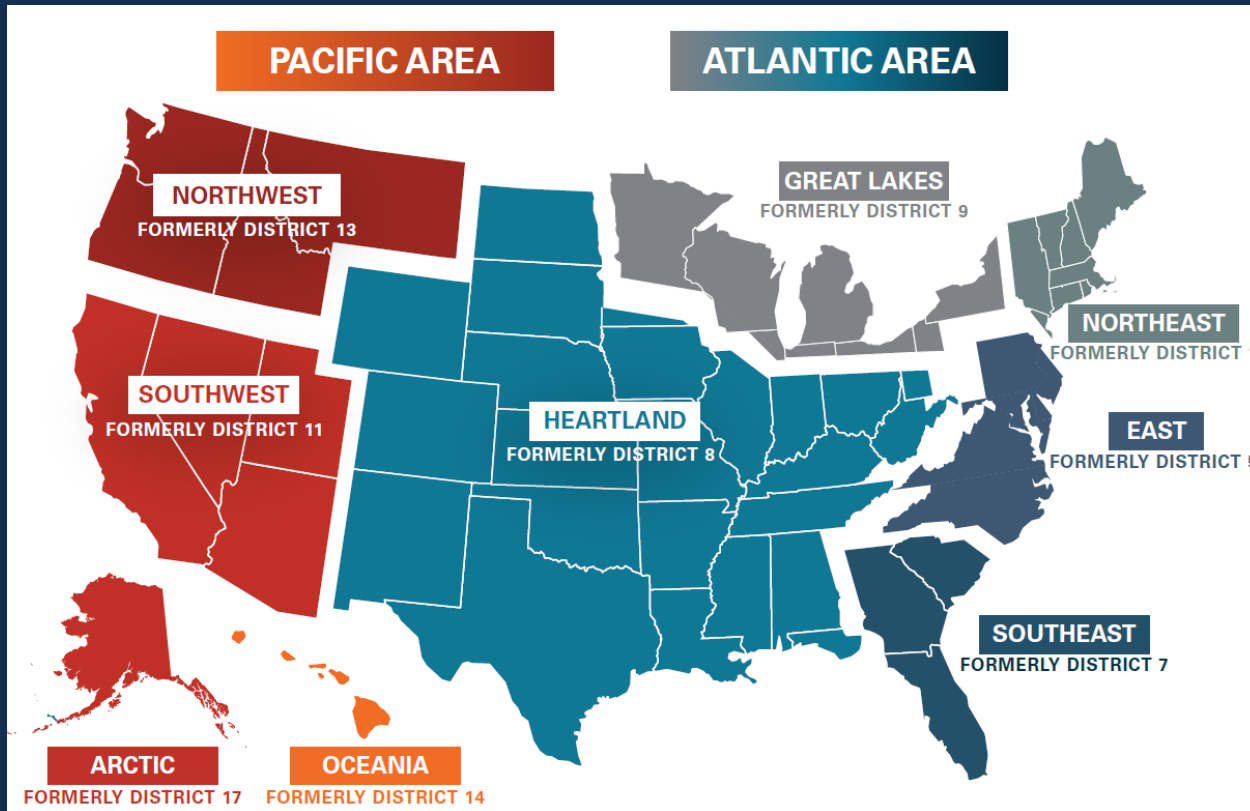
How far away is assistance?



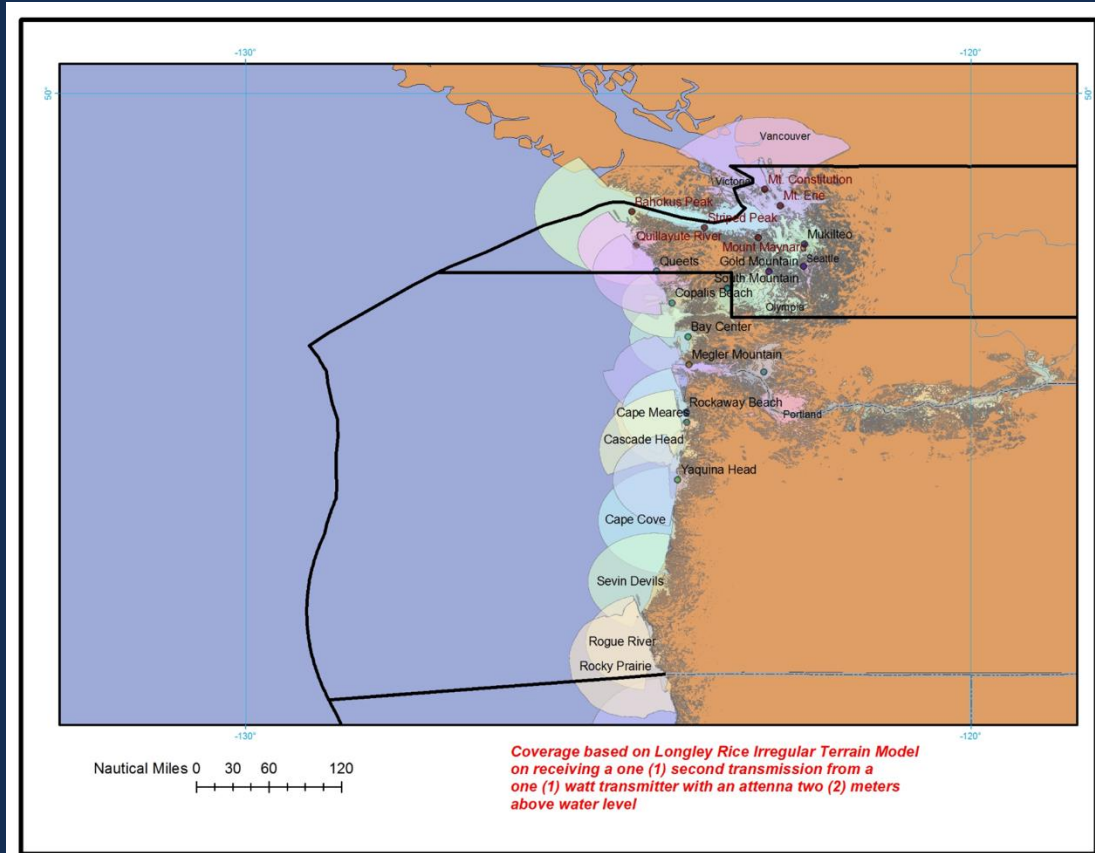
Worldwide SAR AORs



USCG Assistance by AOR



USCG Rescue 21



USCG Assets

Cutters

Patrol Boats

Boats

Helicopters

Planes



45' Response Boat Medium

Jet Propulsion

Max Speed over 40kts

Cruising Speed 30kts

12' Seas

50kt winds



USCG Helicopters MH-65D Dolphin

Characteristics

Length (with rotor blades): 44 feet 5 inches

Rotor Diameter: 39 feet 2 inches

Height: 13 feet 3 inches

Maximum Weight: 9,480 pounds

Cruise Speed: 148 knots

Range: 350 nautical miles

Endurance: three hours




USCG Helicopters MH-60T JayHawk

Characteristics

- Length: 64 feet 10 inches
- Rotor Diameter: 53 feet 8 inches
- Height: 17 feet
- Maximum Weight: 21,884 pounds
- Cruise Speed: 170 knots
- Range: 700 nautical miles
- Service Ceiling: 13,000 feet
- Endurance: 6.5 hours
- Crew: four



AMVER



United States Coast Guard
U.S. Department of Homeland Security

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Welcome to Amver
65 Years Saving Lives At Sea

[Amver Container Ship Rescues Solo Sailor](#)



A lone sailor in a 60-foot double-masted sailboat experienced extreme weather and was rescued by the Amver participating container ship Cap Papatele approximately 1,095 miles east of Hilo, Hawaii on Sunday, April 11, 2019. U.S. Coast Guard officials at the Fourteenth District command center received a phone call from a friend of the sailor. The friend reported he was worried about the sailor and the sailor was experiencing extremely severe weather and wanted to be rescued from his sailboat. The Coast Guard queried the Amver system and contacted the container ship Cap Paptele. The captain of the Singapore-flagged ship agreed to divert and assist the sailor. To see the full blog article, click on the link above.

Frequently Used Links

[Rescue Report](#)

[Enroll in Amver](#)

[Request a SURPIC](#)

[Submit Amver Report](#)



The Rescue



Video Credit Ryan Mann

Giving Assistance is International Law

“The master of a ship at sea which is in a position to be able to provide assistance, on receiving a signal from any source that persons are in distress at sea, is bound to proceed with all speed to their assistance, if possible informing them or the SAR service that the ship is doing so. If the ship receiving the distress alert is unable or, in the special circumstances of the case, considers it unreasonable or unnecessary to proceed to their assistance, the master must enter in the log-book the reason for failing to proceed to the assistance of the persons in distress and, taking into account the recommendations of the Organization, inform the appropriate SAR service accordingly.”

-International Maritime Law



It's also US Law

“A master or individual in charge of a vessel shall render assistance to any individual found at sea in danger of being lost, so far as the master or individual in charge can do so without serious danger to the master’s or individual’s vessel or individuals on board. (46 USC 2304(a)(1)).



It's also in the Race Rules of Sailing

“A boat or competitor shall give all possible help to any person or vessel in danger”



BASIC PRINCIPLE

SPORTSMANSHIP AND THE RULES

Competitors in the sport of sailing are governed by a body of rules that they are expected to follow and enforce. A fundamental principle of sportsmanship is that when competitors break a rule they will promptly take a penalty which may be to retire.

PART 1

FUNDAMENTAL RULES

1.1

Helping Those in Danger

A boat or competitor shall give all possible help to any person or vessel in danger.

1.2

Seamanship, Equipment and Personal Buoyancy

A boat shall carry adequate life-saving equipment for all persons on board, including one ready for immediate use, unless her rules or articles make some other provision. Each competitor is individually responsible for wearing personal buoyancy acceptor for the conditions.

2

FAIR SAILING

A boat and her owner shall compete in compliance with recognized principles of sportsmanship and fair play. A boat may be penalized under this rule only if it is clearly established that these principles have been violated. A disqualification under this rule shall not be excluded from the boat's series score.



The moral imperative

A moral imperative is a principle originating inside a person's mind that compels them to act.

A moral imperative is often confused with an ethical obligation, rather than a basic function of the human mind. Morals are distinct from ethics by their innate origin, while ethics originate from somewhere or someone, not the person who has that ethic. Imperatives transcend obligations or responsibilities, outside the possibility of choice.

From Wikipedia “Moral Imperative”



What are your obligations?

Lend assistance if you can

Respond to emergency communications

Log your actions in a logbook



Stages of a typical rescue

Awareness

Contact

Analyze your ability to respond

Calculate the distance and time to be onsite

If racing, log the time and place where you stopped racing

Make way to the vessel in distress

Stand by the vessel in distress

Maintain communication with rescue agencies

Transfer crew if necessary



How can you help?

Shelter

Man overboard

Medical assistance/supplies

Radio relay to shore station, vessel, or aircraft

Stand-by and provide comfort/support

Provide technical or mechanical skills

Supply equipment for repairs

Supply fuel or water

Provide crew member



Examples of giving assistance

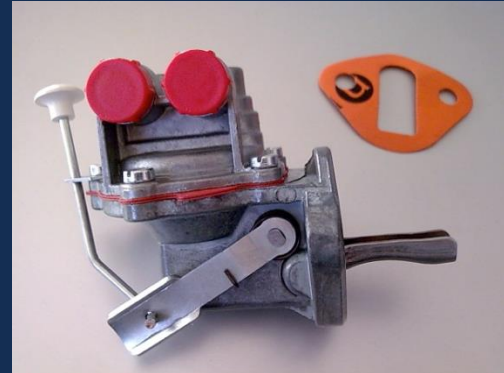
Providing a fuel pump to a boat returning from Baja California, MX (Cabo Race, 1982)

Standing by after losing a keel (Transpac, 1983)

Joining in a search for a man overboard (King Harbor Race, 2008)

Rescuing crew from an inverted sailboat (Chicago Mac Race, 2011)

Offering assistance to a vessel without a rudder (Islands Race, 2013)



How much risk is too much risk?

- Take “prudent risks to assist the other crew
- Both proximity and ability are required
- “without serious damage...to vessel or individuals
- A great reason to have your own vessel under control



Maneuvering close to a sinking vessel

Why?

Communication

Transfer of crew or gear

Passing a line

Use a dinghy

Toss a line directly

Float a line downwind on a fender



In conclusion...

It's the law

Right thing to do

Time-honored tradition

Karma



Thank You!





Staying on Board and MOB Recovery

Preventing a crew member from going overboard

Takes commitment and buy in from ALL

....“ Ralf Steitz“- Sailing’s Yoda



PUGET SOUND

KOMO
NEWS
abc 4

SAILORS RESCUED



Prevention, Prevention, Prevention

Responsibility of the skipper

Responsibility of the crew/guest

Take all steps necessary to minimize the risk of a COB

- Pre-departure Checklist:
 - Lifelines/Gates, Pushpits, Pulpits,
 - Safety Gear, Float Plan



Prevention, Prevention, Prevention

Responsibility of the crew (guest)

Take all steps necessary to minimize the risk of a COB

Let your skipper know your Limitations

Look out for each other “Buddy system”

Wear the right Gear

Being cold and wet sucks but it also slows you down
and you will make bad decisions.

The same goes for Heatstroke or a bad sunburn.



Some Boat Rules

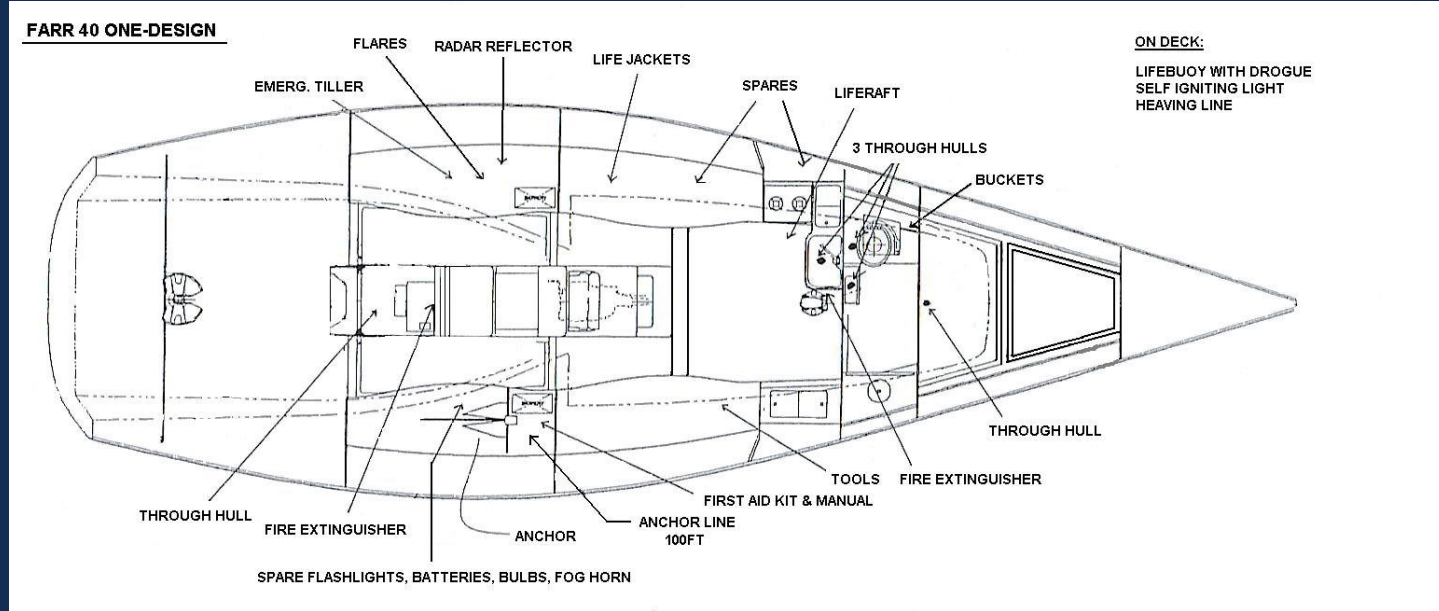
1. One hand for yourself and one for the boat
2. Wear life jackets and Harness at night
3. No Peeing over the side unless you are clipped in
4. Always wear boat shoes
5. If a command is given it must be acknowledged
6. Count off after all maneuvers and watch changes
7. Use the boathook to pickup mooring pennants



Safety Gear All In One Place



Sample Safety Diagram



Now, go put your hands on everything in this diagram!



More Prevention

Communication

Always let your helmsman know if you have to perform a task on the Bow

Nutrition

Hydrate and eat - not always easy in bad conditions

“ Buddy system”

Seasickness

It happens and it is ok

Let your Buddy know and make sure you are clipped in



All this Prevention and Sh*t Still Happens

Strategies for Successful Rescues

Know your Boat's Characteristics

Wear flotation

Always be prepared (do not panic)

Increase your visibility

Log COB position

Return quickly

Use gear to make contact

Command Structure

Station Bill



Know your Boats Characteristics



Time-Speed-Distance Chart

Boat to Victim

	5 kts.	7 kts.	10 kts.	25 kts.
5 sec.	42'	59'	84'	210'
10 sec.	84'	118'	168'	420'
15 sec.	126'	177'	252'	668'
30 min.	2.5nm	3.5nm	5.0nm	12.5nm



Wear Flotation!



Be Visible



Be More Visible



AIS Personal Locator Beacon



Practice Practice Practice Practice

Four Stages of a Rescue

Communication

Maneuvering

Contacting

Reboarding



Use Gear to Make Contact



What Works For Your Boat and Your Crew to Get Back On Board?

To be effective, a rescue device must be available and be part of a reliable method

Many products perform some portion of this task, but very few accomplished the entire task.

Practice Experiment Practice Repeat



Jason's Cradle



Life Sling



Photo Credit Storm Trysail Club



Assisted Recovery with Lifesling/Harness



Photo Credit Storm Trysail Club



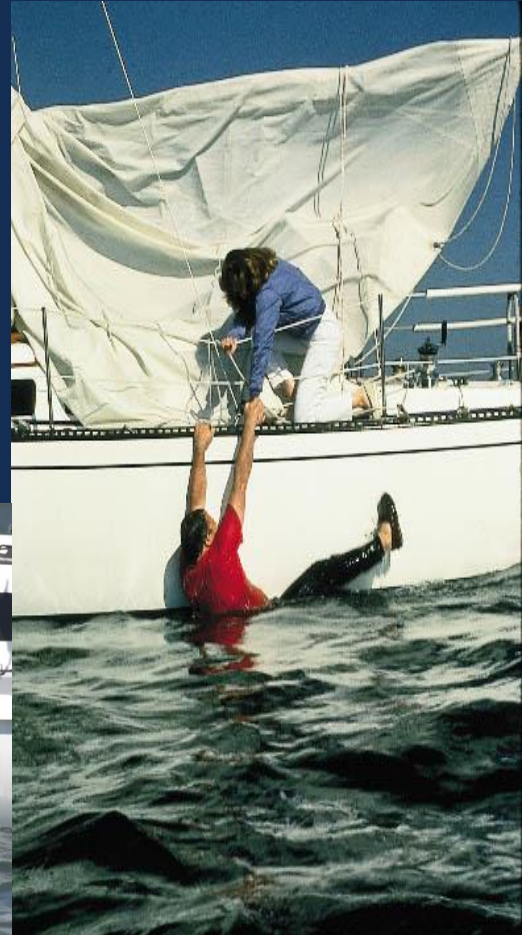
Inability to Re-board

Greater weight of water-soaked victim

No equipment for re-boarding

Lack of strength from crew

Lack of victim's strength



Are You Drowning the Victim?





SAFETY AT SEA
US
SAILING
SAFETY AT SEA

The DECISIONS you make
are going to be more
important than the
EQUIPMENT you have



You Do You Recovery

You have to utilize and practice recovery methods **S** that work aboard your particular vessel in a variety of conditions.

The vessel must remain under control

The vessel must remain safe

You shall cause no harm to additional persons

YOU MUST PRACTICE ON YOUR OWN BOAT!!!!



Medical Management @Sea

Marine Trades Association of Maryland

MITAGS

March 28 & 29, 2026



Onboard medical management issues

Emergent Issues

Trauma to the head

High volume bleeding

Non-Emergent Issues

Without proper evaluation and care these can become emergent!

Impact on Vessel Operations?



An ounce of prevention.....

Preparing Your Vessel for Sea

Well stocked ~~first aid~~
medical kit

Preparing Your Crew for Sea

Be aware of crewmember's pre-existing conditions

Anticipate problem sets

Sea sickness

Dehydration

Fatigue



Distance to Definitive Care

Inshore

Minutes to hours

Coastwise

Many hours

Offshore

Days to weeks

Don't forget that the closest definitive care may be where you started from or somewhere other than where you were going



Vessel preparation

Medical Kits

First Aid Supplies

Store bought

Extras of high use items

Trauma Supplies

Specialty provider

Assembled at home

Aches and Pains

NSAID

Narcotics

Medication

Over the Counter

Prescription Medications

PS VALUE GUIDE OFFSHORE CRUISER MEDICAL KITS vs. PS MINIMUM CONTENTS			
COMPONENTS	ADVENTURE MEDICAL MARINE 2000 ★	FIELDTEX COASTAL CRUISING PAK	OMI CLASS B
BAND AIDS	Yes	Yes	Yes
BUTTERFLY BANDAGES	Yes	Yes	Yes
GAUZE PADS	Yes	Yes	Yes
ROLL GAUZE	Yes	Yes	Yes
ELASTIC ADHESIVE BANDAGES	Yes	No	Yes
ADHESIVE TAPE	Yes	Yes	Yes
STERILE DRESSINGS	Yes	Yes	Yes
SEVERE LACERATION DRESSINGS	Yes	Yes	Yes
RAZOR	No	Yes	Yes
INSTANT COLD PACKS	Yes	Yes	Yes
ELASTIC ROLL (ACE) BANDAGES	Yes	Yes	Yes
TRIANGULAR SLING	Yes	Yes	Yes
FINGER SPLINTS	Yes	Yes	Yes
LIMB SPLINTS	Yes	Yes	Yes
FORCEPS/TWEEZERS	Yes	Yes	Yes
EYE WASH	Yes	Yes	Yes
SCISSORS	Yes	Yes	Yes
SCALPEL	Yes	Yes	Yes
NEEDLE HOLDER	Yes	No	Yes
SUTURE NEEDLES	Yes	No	Yes
STERILE SUTURE	Yes	No	Yes
STAPLE KIT	Yes	Yes	Yes
IV CATHETERS	Yes	No	Yes
IV ADMINISTRATION LINE	Yes	No	No
BAGGED STERILE FLUID	No	No	No
STERILE SYRINGES	Yes	No	Yes
STERILE NEEDLES	Yes	No	Yes
STERILE GLOVES	Yes	Yes	Yes
NON-STERILE GLOVES	Yes	Yes	Yes
SPACE BLANKET	Yes	No	Yes
THERMOMETER	Yes	Yes	Yes
HYPOTHERMIC THERMOMETER	Yes	No	Yes
STETHOSCOPE	Yes	No	No

<https://www.practical-sailor.com/safety-seamanship/medical-kits-for-offshore-cruising>



Medical Supplies

Standard Kits

Pre-Fab

Marine/USCG
Approved

"Adventure"

Build Your Own



Trauma Kit

Box of Gloves

Absorbent Dressings

Vet-Wrap

Eye Protection

Tampons

Menstrual Pads



Accessing Prescription Medication

21 CFR 1301.25

- (a) If acquired by and dispensed under the general supervision of a medical officer described in paragraph (b) of this section, or the master or first officer of the vessel under the circumstances described in paragraph (d) of this section, controlled substances may be held for stocking, be maintained in, and dispensed from medicine chests, first aid packets, or dispensaries:
- (1) On board any vessel engaged in international trade or in trade between ports of the United States and any merchant vessel belonging to the U.S. Government;



Controlled Substances

- (g) Owners or operators of vessels, aircraft, or other entities described in this section shall not be deemed to possess or dispense any controlled substance acquired, stored and dispensed in accordance with this section. Additionally, owners or operators of vessels, aircraft, or other entities described in this section or in Article 32 of the Single Convention on Narcotic Drugs, 1961, or in Article 14 of the Convention on Psychotropic Substances, 1971, shall not be deemed to import or export any controlled substances purchased and stored in accordance with that section or applicable article.
- (h) The Master of a vessel shall prepare a report for each calendar year which shall give in detail an accounting for all controlled substances purchased, dispensed, or disposed of during the year. The Master shall file this report with the medical officer employed by the owner or operator of his/her vessel, if any, or, if not, he/she shall maintain this report with other records required to be kept under the Act and, upon request, deliver a copy of the report to the Administration.
- (i) Controlled substances acquired and possessed in accordance with this section shall be distributed only to persons under the general supervision of the medical officer employed by the owner or operator of the vessel, aircraft, or other entity, except in accordance with **part 1317 of this chapter.**

[62 FR 13951, Mar. 24, 1997, as amended at 79 FR 53561, Sept. 9, 2014]



Preparing your Crew

Crew Training

Medical Forms

Human Physiology

Diet and Nutrition



Crew Training

Basic First Aid and CPR Courses

Wilderness Medicine Classes (WMA or SOLO)

Marine Medical Classes for Voyagers

EMT/Paramedic Classes

IMO/STCW Medical Training

Onboard vessel specific/event specific training



Medicine Aboard Ship

Emergencies

Injury

Illness

Short term and long term medical care

Treatment of chronic conditions

Treatment of acute conditions

Nursing care

Wounds

Pain management



What's Important When it comes to crew training?

Actual Medical Emergency?

Medical Emergency in the Larger Context

Need of External Communications

Development of Alternative Voyage Plan?

Is one person trying to do it all?



Is this an actual Medical Emergency

What defines a Medical Emergency Aboard?

The Clock is ticking.....

Airway-Can't get oxygen into the body

Breathing-Body isn't trying to get oxygen into the body

Circulation-The blood isn't flowing or it's flowing out and you can't stop it

Head Trauma- "the central processor got fried" see above

Everything else may be a highly stressful situation, but you can control the clock



Medical Forms

Crewmember's:

Age

Emergency Contact

Major Medical History

Medications

According to US Sailing 55% of their membership as of 2010 were over the age of 51



There Are No Secrets at Sea

It is imperative that you disclose medical conditions to the skipper/owner before getting underway

Your crew should also be aware of your medical issues

The “sealed envelope” only open in the event something happens to someone doesn’t allow the boat to be prepared to deal with a situation in an intentional manner including deciding that it’s a bad idea to go offshore



Everybody Pees, Poops, Sleeps and Eats Some of Us Menstruate

Dehydration

- Can result in a mild form of compensated volume shock

- Promotes sea sickness

- Can complicate other medical conditions

Constipation

Sunburn

Fatigue

- Reduced performance

- Poor decision making



External Medical Resources

Race Fleet Surgeon

Radio/Satellite Medical Services

USCG Medical Assistance



Illness, Injury, Now what??????????

Decision Tree

Emergent

Non-Emergent

Acute

Chronic



Creating Valuable Training for Your Crew



Sail the way you train-train the way you sail

Set training and practice goals using the SMART methodology:

Specific

Measurable

Attainable

Relevant

Time Based



Team leadership, roles, and followership

Identify subject matter experts

Use tabletop exercises when you can't go sailing

Give people the opportunity to step up into leadership roles so they are prepared to do so when it matters



Responsibility and accountability

Chain of Command

Situational Awareness

Bridge Resource Management

Ensure all crew know they are responsible for observing and communicating changing conditions

Station Bill



Emergency management

Stop

Listen

Assess

Think

Make a plan

Execute

Communication

Know your audience



Predeparture Risk Assessment and Briefing

GAR Assessment

Everyone knows how to start the engine

How to use the VHF, SSB, Sat Phone, Iridium GO

When “don’t we wear PFDs?”

Don’t do a great job of convincing yourself you should go out there!



GAR Assessment



National Department of Response

Surface Operations Risk Calculation Worksheet

Calculating Risk Using the GAR Model

(**GREEN-AMBER-RED**)

This Worksheet should be used for all surface operations unless other GAR forms have been mandated by local OIAs.

GAR IS BASED ON A TEAM DISCUSSION TO UNDERSTAND AND EVALUATE THE RISKS ATTENDANT TO A MISSION AND HOW THEY WILL BE MANAGED.

RISK MANAGEMENT IS WHAT IS IMPORTANT; NOT THE ABILITY TO ASSIGN NUMERICAL VALUES OR COLORS TO RISK ELEMENTS.

Assign a risk code of 0 (For No Risk) through 10 (For Maximum Risk) to each of the six elements below. The discussion should start with the junior (least experienced) members first on each category.

Supervision -qualifications / experience / communications	<input type="text"/>
--	----------------------

Planning – details / clarity / vessel selection and condition	<input type="text"/>
--	----------------------

Team Selection – qualifications / experience	<input type="text"/>
---	----------------------

Team Fitness – physical / mental state	<input type="text"/>
---	----------------------

Environment - seas / visibility / wind / current / temperatures	<input type="text"/>
--	----------------------

Event/Evolution Complexity –details / tasks	<input type="text"/>
--	----------------------

Total Risk Score	<input type="text"/>
-------------------------	----------------------



GAR Assessment

GAR Evaluation Scale - Color Coding the Level Of Risk

0	23	44	60	
10	20	30	40	50
GREEN (Low Risk)		AMBER (Caution)		RED (High Risk)

If the total falls in the green zone, risk is at a minimum. If the total falls in the amber zone, risk is moderate and you should consider adopting procedures to minimize risk.

IF THE TOTAL FALLS IN THE RED ZONE, YOU NEED TO IMPLEMENT MEASURES TO REDUCE THE RISK PRIOR TO STARTING THE EVENT/EVOLUTION.

THE GAR MODEL SHOULD BE USED AS PART OF PLANNING OPERATIONS, AND SHOULD BE CONTINUALLY REASSESSED AS WE REACH MILESTONES WITHIN OUR PLANS, OR AS ELEMENTS CHANGE.

August 2009



Post Voyage Debrief

Not just about the cocktails and war stories

Where can we do better?

Who is making the change?

Did we have a good time?

Did we learn something?

Ten fingers, twelve toes?



The Seven "P" Principle

Prior

Proper

Planning

Prevents

Piss

Poor

Performance



Flare Disposal

Non County Alternatives

The fire investigation section of the County Fire Marshal's Office will accept items such as [Aerial flares, parachute flares, and marine/smoke flares \(encased in plastic\)](#) gunpowder, hand grenades, blasting caps, fireworks, etc. Call (410) 222-7884, Monday through Friday, between 8:30 a.m. and 4 p.m.



CHOOSE THE DEVICE YOU WILL WANT TO WEAR

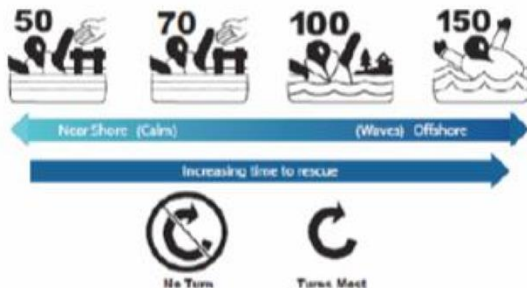
SIZE & FIT

- Check label for user weight and chest size.
- Different body types float differently.
- Try your device on in the water to ensure your airway is clear.
- A good fit is secure, comfortable, and adjustable.

TRY IT ON

PERFORMANCE

- Lower level number generally offers greater mobility, comfort, and style with good flotation for most people.
- Higher level number generally offers greater flotation, turning, and stability in the water.



CONSIDER YOUR ACTIVITY & ENVIRONMENT

WATER SAFETY INFO

- In over 80% of boating fatalities the person was not wearing flotation.
- Most of these are sudden falls overboard or capsizing of a small boat.
- The first moments in the water are critical, even for experienced swimmers.
- Cold water shock causes involuntary gasping, loss of muscle control and swim failure.
- Long term immersion in cold water causes hypothermia and requires thermal protection and flotation in the HELP position to conserve energy.

FLOTATION DEVICES SAVE LIVES

DESIGN TYPES

- **INHERENT** – built-in flotation (always buoyant).
- **INFLATABLE** – activated gas canister inflates chamber(s) (no buoyancy until time of inflation, requires canister replacement, may be manual, may require secondary action to don).
- **HYBRID** – combination of flotation and inflation (some immediate buoyancy and supplemental when inflated, may require canister replacement).
- **SPECIAL PURPOSE** – your activity may require special features (safety color, harness, straps, etc.) and accessories (whistle, lights, reflectors, etc.) for certain conditions.

YOUR DEVICE ONLY WORKS WHEN WORN

MAINTENANCE

- Over time, exposure to sun, salt, fuel, and mildew can damage device.
- Allow to air dry. Inspect and test regularly.
- Inflatables require replacement rearming, repacking and regular servicing.

READ, SAVE AND FOLLOW INSTRUCTIONS

WARNINGS

- Children should have adult supervision when on or near the water.
- Devices must be fastened correctly and securely.
- Some devices were not designed for certain activities or conditions such as water skiing, towed sports, personal watercraft (PWC), or whitewater paddling.



CHECK LABEL FOR LIMITATIONS OF USE

APPROVAL

- Some devices are approved only when worn.
- Check federal, state/provincial and local requirements for carriage, use and wear.



US Coast Guard



Transport Canada

WEAR IT

For more info on the right choices for yourself, your family and friends.

Visit www.wearitlifejacket.org



MMSI Search

Q Ship Station - Search

Ship Name <input type="text" value=" "/>	MMSI (Including for craft associated with a parent ship) or handheld VHF DSC identity <input type="text"/>		
Call Sign <input type="text"/>	Ship (Vessel) Identification Number <input type="text"/>	EPIRB Hex Id Code <input type="text"/>	Satellite Number <input type="text"/>
Administration <input type="text" value="<select one>"/>	Geographical Area <input type="text" value="<select one>"/>	General Classification <input type="text" value="<select one>"/>	



☰ Ship Station List Please, enter search criteria.

Ship Name ↓	Call Sign	MMSI	Administration	Geographical Area	Ship (Vessel) ID Number	Update Date
-------------	-----------	------	----------------	-------------------	-------------------------	-------------



<https://www.itu.int/mmsapp/ShipStation/list>

The DECISIONS you make
are going to be more
important than the
EQUIPMENT you have



Thank You!

