

PORTLAND YACHT CLUB PRESENTS THE 2019 FALL SERIES



NOTICE OF RACE

The officers and Members of the Portland Yacht Club invite you to participate in the 2019 Fall Series starting Saturday, September 14, 2019 and running each subsequent Saturday through October 5th. Race Headquarters will be located at the Portland Yacht Club ("PYC"), Old Powerhouse Road, Falmouth, Maine. PYC may be reached at 207-781-9820 or via VHF Channel 68. its website is www.portlandyachtclub.com

1. Rules

The regatta will be governed by the rules as defined in *The Racing Rules of Sailing*.

2. Eligibility

The regatta is open to all sailing boats with a valid rating certificate issued by PHRF-New England. (To obtain a rating certificate, register online at <u>www.gmora.org</u>.)

Further requirements:

- 1. Boats shall comply with the current Nearshore US Sailing Equipment Requirements, as modified in Appendix A. For boats without lifelines not able to comply with 2.4.1 then add 3.1.4 and 3.2.1.
- 2. Each boat in a One-Design class shall comply with the requirements of her class.
- 3. All boats shall comply with Federal and State safety requirements.

3. Classes and Divisions

There will be a racing (spinnaker) division and a cruising division. Class breaks will be at the discretion of the Event Organizer and will be announced at the skippers meeting. A separate start will be offered to one-design fleets with 5 or more participating boats.

4. Registration and Fees

Boats may register for the entire series, or for individual races, with the payment of entry fees as detailed in the following table:

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Full Series:	\$140.00
Per Race:	\$45.00

Registration takes place online at <u>www.regattaman.com</u> or at registration the day of the race. To register for the Full race series in regattaman.com, go to the calendar page and click on "Pass" then click on the PYC Fall Series event.

5. Sail Limitations and Sail Numbers

As required by the Bylaws of PHRF-New England, all mainsails, spinnakers and headsails with an overlap of 130% or more shall visibly display the same sail number. Boats with illegible or improper numbers on their sails may be scored DNC

6. Crew Limits

The maximum weight of the crew (including skippers) allowed aboard each boat is listed in the following table. It is based upon an average weight of 180 lbs. multiplied by the number of crew. The total weight cannot be exceeded without penalty; the crew number is a guideline. These limits do not apply to One-Design classes which will be governed by class rules.

UP TO LOA	# OF CREW	TOTAL CREW WEIGHT
25	5	900
27	6	1,080
30	7	1,260
33	8	1,440
35	9	1,620
38	10	1,800
40	11	1,980

UP TO LOA	# OF CREW	TOTAL CREW WEIGHT
43	12	2,160
45	13	2,340
50	14	2,520
55	15	2,700
60	16	2,880
65	17	3,060
>65	18	3,240

7. Inspections

The race committee may inspect boats on a random basis to verify compliance with the Notice of Race, the Sailing Instructions, the ORC Regulations, and any applicable class rules.

8. Schedule

Saturday, Sept. 14: Lightship Race

7:30-8:30	Check-In, Coffee/Juice/Bagels/Donuts
8:30	Skippers' Meeting
10:00	First Warning Signal
1700 -1900	Chowder, chili, and refreshments

Saturday, Sept 21:

1030-1100	Check-In
1100-1130	Skippers' Meeting
1300	First Warning Signal
1700 -1900	Chowder, chili, and refreshments
1800	Lightship Awards

Saturday, Sept. 28:

1100-1130	Check-In
1300	First Warning Signal
1700 -1900	Chowder, chili, and refreshments

Saturday, Oct.5:

1100-1130	Check-In
1300	First Warning Signal
1700 -1900	Chowder, Chili and refreshments
1800	Fall Series Awards

If conditions are not favorable for the Lightship Race on September 14 the race may be moved to one of the three remining race dates at the discretion of the Race Committee. This decision will be made no later than 1200 on September 14. If the Lightship Race is postponed to a later date, the Race Committee shall run an inshore race on September 14.

There will be one race scheduled each day for each division. Additional races may be run at the discretion of the Race Committee. A copy of the scratch sheet and starting sequence will be available at the skippers meeting.

9. Sailing Instructions and Other Information

The Sailing Instructions will be distributed at Check-In and will be available on line at regattaman.com by September 8th.

10. Courses and Sailing Area

The starting line will be in the waters between Clapboard and Long islands for all classes unless otherwise noted in the Sailing Instructions. Courses will be described in the Sailing Instructions.

11. Scoring

The CHIPS 3 scoring system will apply. Each competitor's best 3 races shall be counted. One race can constitute a regatta. Ties will be broken in strict accordance to RRS appendix A8.

12. Alternative Penalties

The two-turns penalty as defined in RRS 44.2 will apply to infringements of Part II, Right of Way Rules.

13. Prizes

Prizes will be awarded to the first, second, and third-place boats in each class. Lightship prizes will be awarded at end of racing on 9/14, series prizes will be awarded as soon as possible after the race 10/5 The overall winner of the Lightship Race will win the **Moore Trophy**. The PYC member with the best overall series will win the **Lippoth Trophy**. All boats with a qualifying youth crew, 30% age 18 or younger, will compete for the GMORA **Hank Spencer Award** for the series.

14. Disclaimer of Liability

Competitors participate in the regatta entirely at their own risk. See rule 4, Decision to Race. The organizing authority will not accept any liability for material damage or personal injury or death sustained in conjunction with or prior to, during, or after the regatta.

15. Insurance

Each participating boat shall show proof of valid third-party liability insurance with a minimum cover of \$300,000 (USD) per event or the equivalent no later than check in on 9/14.

16. Mooring Information

A limited number of complimentary moorings are available from PYC for non-member entrants for Friday, Saturday and Sunday nights. To reserve a mooring, please contact in advance the PYC Waterfront Manager at 207-781-9820, Ext. 16. Boats arriving without a reservation may contact the PYC waterfront (VHF Channel 68) at the time of arrival. The attendants will attempt to find a vacant mooring. If none are available, you may be able to rent one from Handy Boat Service (VHF Channel 9, 207-781-5110).

17. Parking Information

PYC members park according to the Club parking policy. Each non-member boat will be issued one guest pass for Saturdays on which races are run. Non-member parking may be restricted to a specific area; if so, an attendant on duty will direct you. No overnight parking is allowed anywhere off the paved surface.

Portland Yacht Club 40 Old Powerhouse Road Falmouth, Maine 04105 Tel (207) 781-9820 Fax (207) 781-4559 www.portlandyachtclub.com

APPENDIX A

Safety Equipment Requirements

Note: Organizing Authorities may add or delete items based on the conditions of their specific races.

Effective Date: January 1, 2019, revision 2019.0

Section Name	#	Requirement	Ocean	Coastal	Nearshore	Ме
Definition	1.0.1	Ocean: Long distance races, well offshore, where rescue may be delayed	x			
Definition	1.0.2	Coastal: Races not far removed from shorelines, where rescue is likely to be quickly available		x		
Definition	1.0.3	Nearshore: Races primarily sailed during the day, close to shore, in relatively protected waters.			x	
Overall	1.1	The Safety Equipment Requirements establish uniform minimum equipment and training standards for a variety of boats racing in differing conditions. These regulations do not replace, but rather supplement, the requirements of applicable local or national authority for boating, the Racing Rules of Sailing, the rules of Class Associations and any applicable rating rules.	x	x	x	
Overall: Responsibility	1.2	The safety of a boat and her crew is the sole and inescapable responsibility of the "person in charge", as per RRS 46, who shall ensure that the boat is seaworthy and manned by an experienced crew with sufficient ability and experience to face bad weather. S/he shall be satisfied as to the soundness of hull, spars, rigging, sails and all gear. S/he shall ensure that all safety equipment is at all times properly maintained and safely stowed and that the crew knows where it is kept and how it is to be used.	x	x	x	
Overall: Inspections	1.3	A boat may be inspected at any time by an equipment inspector or measurer appointed for the event. If she does not comply with these regulations, her entry may be rejected or she will be subject to a protest filed by the RC. A Violation of the Safety Equipment Requirements may result in a penalty other than disqualification.	x	x	x	
Overall: Equipment and Knowledge	1.4	All equipment required shall function properly, be regularly checked, cleaned and serviced, and be of a type, size and capacity suitable for the intended use and size of the boat and the size of the crew. This equipment shall be readily accessible while underway and, when not in use, stored in such a way that deterioration is minimized.	x	x	x	
Overall: Secure Storage	1.5	A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal ballast shall be secured.	x	x	x	
Overall: Strength of Build	1.6	A boat shall be strongly built, watertight and, particularly with regard to hulls, decks and cabin trunks, capable of withstanding solid water and knockdowns. A boat shall be properly rigged and ballasted, be fully seaworthy and shall meet the standards set forth herein. A boat's shrouds and at least one forestay shall remain attached at all times.	X	x		
Overall: Watertight Integrity	1.7	A boat's hull, including, deck, coach roof, windows, hatches and all other parts, shall form an integral watertight unit, and any openings in it shall be capable of being immediately secured to maintain this integrity.	x	x	x	

Overall: Scantlings	1.8	Hull Construction Standards - Scantlings with plan review approval - (See Appendix)	x			
Hull and Structure: Hull Openings	2.1.1	A boat's companionway(s) shall be capable of being blocked off to main deck level (sheerline). The method of blocking should be solid, watertight, and rigidly secured, if not permanent.	x	x	x	
Hull and Structure: Hull Openings	2.1.2	A boat's hatch boards, whether or not in position in the hatchway, shall be secured in a way that prevents their being lost overboard.	x	x	x	
Hull and Structure: Cockpit	2.1.3	A boat's entire cockpit shall be solid, watertight, strongly fastened and/or sealed. Weather-tight seat hatches are acceptable only if capable of being secured when closed.	x	x	x	
Hull and Structure: Cockpit	2.1.4	A boat's cockpit drains shall be capable of draining six inches of water in 5 minutes. One square inch (645mm2) of effective drain per eight square feet (0.743m2) of cockpit sole will meet this requirement.	x	x	x	
Hull and Structure: Cockpit	2.1.5.1	A boat's maximum cockpit volume for cockpits not open to the sea, including any compartments capable of flooding, to lowest points of coaming over which water can adequately escape, shall not exceed 0.06 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be at least 0.02 x LOA above LWL.	x			
	2.1.5.2	A boat's maximum cockpit volume for cockpits not open to the sea, including any compartments capable of flooding, to lowest points of coaming over which water can adequately escape, shall not exceed 0.08 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be at least 0.02 x LOA above LWL.		x		
Hull and Structure: Through Hulls	2.1.6	A boat's through-hull openings below the waterline shall be equipped with sea cocks or valves, except for integral deck scuppers, speed transducers, depth finder transducers and the like; however a means of closing such openings shall be provided.	×	x		
Hull and Structure: Stability	2.2.1	The boat must have a stability index greater than or equal to 115, or meet the requirements of ISO 12217-2A	x			
Hull and Structure: Stability	2.2.2	The boat must have a stability index greater than or equal to 103 or meet the requirements of ISO 12217-2B.		x		
Hull and Structure: Stability	2.2.3	A boat with moveable or variable ballast (water or canting keel) shall comply with the requirements of Appendix K.	x	x	x	
Hull and Structure: Accommodations	2.3.1	A boat shall be equipped with a head or a fitted bucket.	x			
Hull and Structure: Accommodations	2.3.2	A boat shall have bunks sufficient to accommodate the off watch crew.	x			
Hull and Structure: Accommodations	2.3.3	A boat shall have a stove with a fuel shutoff.	x			
Hull and Structure: Accommodations	2.3.4	Vessels shall carry water as required by the Notice of Race such that a single failure of a tank or delivery system will not allow the loss of more than half the water.	x			

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Hull and Structure:			1			
Accommodations	2.3.5	A boat shall have adequate hand holds below decks.	x	<u> </u>	·	⊢
Hull and Structure: Lifelines	2.4.1	A boat's deck including the headstay shall be surrounded by a suitably strong enclosure, typically consisting of lifelines and pulpits, meeting the requirements in 2.4.2 to 2.4.8.	x	x	x	
Hull and Structure: Lifelines	2.4.2	A boat's stanchion and pulpit bases shall be within the working deck.	x	x		
Hull and Structure: Lifelines	2.4.3	Bow pulpits may be open, but the opening between the vertical portion of stanchion pulpit and any part of the boat shall not exceed 14.2" (360mm).	x	x		
Hull and Structure: Lifelines	2.4.4	Lifelines shall be-uncoated stainless steel wire. A multipart- lashing segment not to exceed 4" per end termination for the purpose of attaching lifelines to pulpits is allowed. Lifelines shall be taut.	x	x		
Hull and Structure: Lifelines	2.4.4.1	Lifeline deflection shall not exceed the following: a) When a deflecting force of 9 lbs (40N) is applied to a lifeline midway between supports of an upper or single lifeline, the lifeline shall not deflect more than 2" (50mm). This measurement shall be taken at the widest span between supports that are aft of the mast. b) When a deflecting force of 9 lbs (40N) is applied midway between supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 5" (120mm) from a straight line between the stanchions.	×	x		
Hull and Structure: Lifelines	2.4.5	The maximum spacing between lifeline supports (e.g. stanchions and pulpits) shall be 87" (2.2m).	x	x		Ī
Hull and Structure: Lifelines Hull and Structure: Lifelines	2.4.6	Boats under 30' (9.14m) shall have at least one lifeline with 18" (457mm) minimum height above deck, and a maximum vertical gap of 18" (457mm). Taller heights will require a second lifeline. The minimum diameter shall be 1/8" (3mm). Boats 30' and over (9.14m) shall have at least two lifelines with 24" (762mm) minimum height above deck, and a maximum vertical gap of 15" (381mm). The minimum diameter will be 5/32" (4mm) for boats to 43' (13.1m) and 3/16" (5mm) for boats over 43' (13.1m).	x	x		
Hull and Structure: Lifelines	2.4.8	Toe rails shall be fitted around the foredeck from the base of the mast with a minimum height of 3/4" (18mm) for boats under 30' (9.14m) and 1" (25mm) for boats over 30'. An additional installed lifeline that is 1-2" (25-51mm) above the deck will satisfy this requirement for boats without toerails.	x	x	x	
Hull and Structure: Lifelines	2.4.9	Trimarans are exempted from the lifeline requirement where there is a trampoline outboard of the main hull, except that a lifeline must run from the top of a bow pulpit to the forward crossbeam at the outboard edge of the bow net or foredeck. Catamarans with trampoline nets between the hulls are exempted from the lifeline requirement. All catamarans are exempted from the need for pulpits and lifelines across the bow.	x	x	x	

Hull and Structure: Dewatering pumps	2.5.1	A boat shall have a permanently installed manual bilge pump of at least a 10 GPM (37.8 liter per minute) capacity and which is operable from on deck with the cabin closed with the discharge not dependent on an open hatch. Unless permanently attached to the pump, the bilge pump handle shall be securely attached to the boat in its vicinity via a lanyard or catch. A bilge pump discharge shall not be connected to a cockpit drain. The bilge pump shall not discharge into a cockpit unless that cockpit opens aft to the sea.	x	x	x	
Hull and Structure: Dewatering pumps	2.5.2	A boat shall have a second permanently installed manual bilge pump of at least 10 GPM (37.8 liter per minute) capacity, operable from below deck, meeting the same criteria as above.	x			
Hull and Structurea: Dewatering pumps	2.5.3	A boat shall have a manual bilge pump of at least a 10 GPM (37.8 liter per minute) capacity.			x	
Hull and Structure: Mast and Rigging	2.6	A boat shall have the heel of a keel-stepped mast securely fastened to the mast step or adjoining structure.	x			
Hull and Structure: Mechanical Propulsion	2.7.1	A boat shall have a mechanical propulsion system that is quickly available and capable of driving the boat at a minimum speed in knots equivalent to the square root of LWL in feet (1.81 times the square root of the waterline in meters) for 10 hours.	x			
Hull and Structure: Mechanical Propulsion	2.7.2	A boat shall have a mechanical propulsion system that is quickly available and capable of driving the boat at a minimum speed in knots equivalent to the square root of LWL in feet (1.8 times the square root of the waterline in meters) for 4 hours.		x		
Hull and Structure: Mechanical Propulsion	2.7.3	The boat's engine and generator installation (if so equipped) must conform to ABYC, ISO, or U.S. Coast Guard standards.	x	x	x	
Safety Equipment: Personal	3.1.1	Each crewmember shall have a life jacket that provides at least 33.7lbs (150N) of buoyancy, intended to be worn over the shoulders (no belt pack), meeting either U.S. Coast Guard or ISO specifications. Alternatively, each crewmember shall have an inherently buoyant off-shore life jacket that provides at least 22lbs (100N) of buoyancy meeting either U.S. Coast Guard or ISO specifications.	x	x	x	
Safety Equipment: Personal	3.1.2	Life jackets shall be equipped with crotch or leg straps, a whistle, a waterproof light, be fitted with marine-grade retro- reflective material, and be clearly marked with the boat's or wearer's name, and be compatible with the wearer's safety harness. If the life jacket is inflatable, it shall be regularly checked for air retention.	x	x		
Safety Equipment: Personal	3.1.3	Each crewmember shall have a life jacket intended for small boat sailing or other active boating. Each such life jacket shall be USCG, ISO, or applicable government approved or shall meet the ocean requirement of 3.1.1.				
Safety Equipment: Personal	3.1.4	Each crewmember shall have a safety harness and compatible safety tether not more than 6'7" (2m) long with a minimum tensile strength of 4500 lb. (20kN). The tether shall have a snap hook at its far end and a means to quickly disconnect the tether at the chest end.	x	x		

		A boat shall carry jacklines with a breaking strength of at least				
Cofety Faultaneast		4500 lb. (20kN) which allow the crew to reach all points on				
Safety Equipment: Deck Safety	3.2.1	deck, connected to similarly strong attachment points, in place while racing.	x	x		
		A boat shall have adequate clipping points or jacklines that				
Safety Equipment:		allow the crew to clip on before coming on deck and unclip				
Deck Safety	3.2.2	after going below.	x			
Safety Equipment:		Multihulls must have jacklines or attachment points that are				
Deck Safety	3.2.3	accessible when the vessel is inverted.	x	x		
		A boat racing between sunset and sunrise shall carry navigation lights that meet U.S. Coast Guard or applicable				
Safety Equipment:		government requirements mounted so that they will not be				
Navigation Lights	3.3.1	obscured by the sails nor be located below deck level.	x	x	x	
		A boat shall have a second set of navigation lights that comply				
Safety Equipment:		with US Coast Guard or applicable government requirements and which can be connected to a different power source than				
Navigation Lights	3.3.2	the primary lights.	x			
		A boat shall carry fire extinguisher(s) that meets U.S. Coast				
Safety Equipment: Fire Extinguishers	3.4	Guard or applicable government requirements, when applicable.	v	v	×	
Extinguishers	3.4		x	x	X	
Safety Equipment:		A boat shall carry-sound-making devices that meets U.S. Coast				
Sound Producing	2.5	Guard or applicable government requirements, when				
Equipment	3.5	applicable.	x	x	X	
Safety Equipment:	2.5.4	A boat shall carry two SOLAS orange smoke flares not older				
Visual Distress Signals	3.6.1	than the expiration date.	x			
Safety Equipment:	2.6.2	A boat shall carry one SOLAS orange smoke flares not older				
Visual Distress Signals	3.6.2	than the expiration date.		x		
Safety Equipment: Visual Distress Signals	3.6.5	A boat shall carry four SOLAS red hand flares not older than the expiration date.	x			
	3.0.5		^			
Safety Equipment: Visual Distress Signals	3.6.6	A boat shall carry three SOLAS red hand flares not older than the expiration date.		x		
	0.0.0			<u> </u>		
		A boat shall carry U.S. Coast Guard (or applicable government				
Safety Equipment: Visual Distress Signals	3.6.4	entity) flares meeting day-night requirements not older than the expiration date.			x	
Cofoty Faultane at		Dept flores stored incide of life of the mean set has used to set f				
Safety Equipment: Visual Distress Signals	3.6.5	Boat flares stored inside of life rafts may not be used to satisfy the flare requirement.	x	x		
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		A boat shall carry a Lifesling or equivalent man overboard				
Safety Equipment:		rescue device equipped with a self igniting light stored on deck	1	l '		
Man Overboard	3.7.1	and ready for immediate use.	x	x	x	
				l I	!	
		A boat shall have a man overboard pole and flag, with a lifebuoy, a self-igniting light, a whistle, and a drogue attached.	1		'	
		lifebuoy, a self-igniting light, a whistle, and a drogue attached. A self-inflating Man Overboard Module, Dan Buoy or similar	1	ľ	1	
		device will satisfy this requirement. Self-inflating apparatus	1	ľ	1	
		shall be tested and serviced in accordance with the manufacturer's specifications. These items shall be stored on		 	'	
Safety Equipment:		manufacturer's specifications. These items shall be stored on deck, ready for immediate use, and affixed in a manner that	1		'	
Man Overboard	3.7.2	allows for a "quick release".	x	x	!	
				l I		
Safety Equipment:		A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating polypropylene line readily	1			<u> </u> '
Man Overboard	3.7.3	accessible to the cockpit.	x	x	x	
		A boat shall carry a Coast Guard or applicable government				
		approved "throwable device". If the device carried under 3.7.1	1			
Safety Equipment: Man Overboard	3.7.4	or 3.7.2 satisfies this requirement, then no additional device is needed.	x	x	x	
Midli Overboard	3.7.4				^	+
		A boat shall have a permanently installed 25-watt VHF radio connected to a masthead antenna by a co-axial feeder cable		 	!	
		with no more than a 40% power loss. Such radio shall have	1	l '	'	
		DSC capability, have an antenna of at least 15" (381mm) in		 	!	
Safety Equipment: Emergency		length, be connected to or have an internal GPS, and have the assigned MMSI number (unique to the boat) programed into		 	!	
Communications	3.8.1	the VHF.	x	x		
						\square
		A boat shall have a watertight handheld VHF radio or a	1	l '	'	
Safety Equipment: Emergency		handheld VHF radio with waterproof cover. This radio shall have DSC/GPS capability with an MMSI number properly	1		'	
Communications	3.8.2	registered to the vessel.	x	x	'	'
				'		Γ
				l ⁱ		
Safety Equipment: Emergency			1	l '		
Communications	3.8.3	A boat shall have a VHF radio which may be fixed or handheld.	<u> </u>	l	x	
				'	· · ·	Γ
				 	!	
Safety Equipment: Emergency		A boat shall have an emergency VHF antenna with sufficient coax to reach the deck, and have a minimum antenna length of	1	l '	'	
Communications	3.8.4	15" (381mm).	x	l'	!	
				'		
		All boats shall have an AIS Transponder, sharing a masthead	1	l '	'	
Cafaty Equipment:		VHF antenna via a low loss AIS antenna splitter. An acceptable alternative is a dedicated AIS antenna that is a minimum of 0.9		l ⁱ	!	
Safety Equipment: Emergency		alternative is a dedicated AIS antenna that is a minimum of 0.9 meters long, mounted with its base at least 3 meters above the	1	l '	'	
	4	water, and fed with coax that has a maximum 40% power loss.	1 1	1	1	
Communications	3.9	Water, and red with coax that has a maximum 40% power loss.	Х	L		
Communications	3.9	Water, and red with coax that has a maximum 40% power loss.	X			
	3.9	Water, and red with coax that has a maximum 40% power loss.	X			
Communications Safety Equipment: Emergency	3.9	A boat shall have a method of receiving weather information in	X			
Safety Equipment:	3.9		x			
Safety Equipment: Emergency		A boat shall have a method of receiving weather information in				
Safety Equipment: Emergency Communications		A boat shall have a method of receiving weather information in				
Safety Equipment: Emergency		A boat shall have a method of receiving weather information in				

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Safety Equipment: Emergency		A boat shall carry an electronic means to record the position of a man overboard within ten seconds. This may be the same				
Communications	3.15	instrument listed in 3.14.	x	x	x	
Safety Equipment:		A boat shall carry a 406MHz EPIRB that is properly registered				
Emergency Communications	3.16.1	to the boat. This device shall be equipped with an internal GPS.	x			
		A boat shall carry either a 406MHz EPIRB which is properly				
Safety Equipment:		registered to the boat, or a floating 406MHz Personal Locator Beacon, registered to the owner with a notation in the				
Emergency Communications	3.16.2	registration that it is aboard the boat. This device shall be equipped with an internal GPS.		x		
Safety Equipment: Navigation	3.17	A boat shall have a knotmeter and/or distance-measuring instrument.	x			
Safety Equipment: Navigation	3.18	A boat shall have a permanently installed depth sounder that can measure to depths of at least 200 ft. (61m).	x	x		
		A boat shall have a permanently mounted magnetic compass				
Safety Equipment: Navigation	3.19.1	independent of the boat's electrical system suitable for steering at sea.	x	x	x	
Safety Equipment: Navigation	3.19.2	A boat shall have a second magnetic compass suitable for steering at sea which may be handheld.	x			
Cofoty Faviaments		A boot shall have non electronic shorts that are appropriate for				
Safety Equipment: Navigation	3.20	A boat shall have non-electronic charts that are appropriate for the race area.	x	x	x	
		A boat shall have the ability to display sail numbers and letters				
Safety Equipment:		of the size carried on the mainsail by an alternative means				
Damage Control	3.21	when none of the numbered sails is set.	X			
		A boat shall carry soft plugs of an appropriate material,				
Safety Equipment: Damage Control	3.22	tapered and of the appropriate size, attached or stowed adjacent to every through-hull opening.	x	x	x	
		A boat shall carry one anchor, meeting the anchor				
Gear: Anchoring	3.23	manufacturer's recommendations based on the yacht's size, with a suitable combination of chain and line.	x	x	x	
		A boat shall carry a watertight, high-powered searchlight, suitable for searching for a person overboard at night or for				
Gear: Lights	3.24.1	collision avoidance.	x	x	x	
		A boat shall carry a watertight flashlight for each crewmember				
Gear: Lights	3.24.2	with spare batteries in addition to the above.	x			
		A boat shall carry at least two watertight flashlights with spare				
Gear: Lights	3.24.3	batteries in addition to the requirement of 3.24.1.		x	×	
		A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of the passage and the number of crew				
Gear: Medical Kits	3.25	aboard.	x	х	x	
		A boat shall carry an 11.5" (292mm) diameter or greater				
Gear: Radar Reflectors	3.26	octahedral radar reflector or one of equivalent performance.	x	х	x	
	3.27.1	A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with lanyards attached.	x	x		
	3.27.2	A boat shall carry one sturdy bucket of at least two gallons (8 liters) capacity with lanyards attached.			X	
	3.27.2	וונדיגן כמשמכונץ שונוו ומווץמרטג מנומכוופט.		1	X	

Gear: Safety Diagram	3.28	A boat shall post a durable, waterproof diagram or chart locating the principal items of safety equipment and through hulls in the main accommodation area where it can be easily seen.	x	New for 2019 x		
Gear: Emergency Steering	3.29.1	A boat shall have an emergency tiller, capable of being fitted to the rudder stock.	x			
Gear: Emergency Steering	3.29.2	Wheel steered boats shall have an emergency tiller, capable of being fitted to the rudder stock.		x	x	
Gear: Spare Parts	3.30	A boat shall carry tools and spare parts, including an effective means to quickly disconnect or sever the standing rigging from the hull.	x			
Gear: Identification	3.31	All lifesaving equipment shall bear retro-reflective material and be marked with the yacht's or wearer's name. The exception would be for new equipment or rented equipment (e.g. life rafts) that would require the unpacking of sealed equipment in order to meet this requirement. The boat name shall be added during the first servicing of any new equipment.	x	x	x	
Gear: Cockpit Knife	3.32	A boat shall carry a strong, sharp knife, sheathed and securely restrained which is readily accessible from the deck and/or cockpit.	x		x	
Sails: Mainsail Reefing	3.33.1	A boat shall have a mainsail reefing capable of reducing the luff length by at least 10%.	x	x	x	
Sails: Trysail	3.33.2	A boat shall carry a trysail, with the boat's sail number displayed on both sides, which can be set independently of the main boom, has an area less than 17.5% of E x P, and which is capable of being attached to the mast. Storm sails manufactured after 01/01/2014 shall be constructed from a highly visible material.	x			
Sails: Headsails	3.33.3	A boat shall carry a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area not greater than 13.5% height of the foretriangle squared.	x			
Sails: Headsails	3.33.4	A boat shall carry a storm jib not exceeding 5% of the yacht's I dimension squared, an equipped with an alternative means of attachment to the headstay in the event of a failure of the head foil. Storm sails manufactured after 01/01/2014 shall be constructed from a highly visible material.	x			
		A boat shall not be rigged with any halyard that requires a				
Rigging: Halyards	3.35	person to go aloft in order to lower a sail. A boat over 30' LOA (9.14m) shall have a means to prevent the	x	x	<u> </u>	-
Rigging: Boom Support	3.36	boom from dropping if support from the mainsail or halyard fails.	х	x	х	
Supplies: Water	3.37	A boat shall carry 1 gallon (3.785 liters) per crewmember of emergency drinking water in sealed containers in addition to any other water carried aboard the boat and it shall be aboard after finishing.	x			

		1	1			
Gear: Life Rafts	3.39	A boat shall carry adequate inflatable life raft(s) designed for saving life at sea with designed capacity for containing the entire crew. The raft shall be SOLAS, ISAF, ISO 9650-1 or ORC approved. The raft shall be stored in such a way that it is capable of being launched within 15 seconds. Boats built after 01/06/2001 shall have the life raft stowed in a deck mounted rigid container or stowed in watertight or self- draining purpose built rigid compartment(s) opening adjacent to the cockpit or the working deck. Boats built prior to 01/06/2001 may alternatively stow the life raft in a valise not weighing over 88 lbs. securely below deck and adjacent to the companionway. The life raft(s) shall hold current certificate(s) of inspection.	x			
Gear: Life Rafts	3.40	A boat shall have a grab bag with a lanyard and clip for each life raft. The grab bag shall have inherent flotation and be of a bright fluorescent color containing at least an EPIRB, and a watertight handheld VHF radio. The VHF radio and EPIRB need not be in addition to the prior requirements.	x			
Skills: Emergency Steering	4.1.1	A boat's crew shall be aware of multiple methods of steering the boat with the rudder disabled, and shall have chosen and practiced one method of steering the boat with the rudder disabled and be prepared to demonstrate said method of steering both upwind and downwind.	x			
Skills: Emergency Steering	4.1.2	Crews must be aware of methods of steering the yacht with the rudder disabled.		x	x	
Skills: Man Overboard	4.2	Annually, two-thirds of the boat's racing crew shall practice man-overboard procedures appropriate for the boat's size and speed. The practice shall consist of marking and returning to a position on the water, and demonstrating a method of hoisting a crewmember back on deck, or other consistent means of reboarding the crewmember.	x	x	x	
Skills: Safety at Sea Training	4.3.1	At least 30% of those aboard the boat, but not fewer than two members of the crew, unless racing single-handed, including the person in charge, shall have attended a one-day or two- day US Sailing Safety at Sea Seminar within the last 5 years, including online courses when available, or other courses as accepted by US Sailing or other national authority.	x			
Skills: Safety at Sea Training	4.3.2	At least 30% of those aboard the boat, but not fewer than two members of the crew, unless racing single handed, including the person in charge, shall have attended a half-day, one-day, or two-day US Sailing Safety at Sea Seminar within the last 5 years, including online courses when available, or other courses as accepted by US Sailing or other national authority.		x		
		As required in 1.2 above the person in charge shall ensure that all crew members know where all emergency equipment is located and how to operate the equipment. In addition, the person in charge and crew should discuss how to handle various emergency situations including Crew Overboard,				