## **World Sailing Offshore Special Regulations**

# **Combined** extract for **All Race Categories**

#### **JANUARY 2022 - DECEMBER 2023**

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**Version Draft 1.0 – 14 July 2022** 

# **With MNA Prescriptions**



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MNA logo here

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https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/

## **Language & Abbreviations Used**

Mo - Monohull

Mu – Multihull

\*\* – means the item applies to all types of boat in all Categories except 5 for which see Appendix B or 6 for which see Appendix C

RED TYPE indicates a significant change in 2023.

ITALIC TYPE indicates a term defined in Offshore Special Regulation 1.03.1.

UNDERLINED ITALIC TYPE indicates a term defined in the Equipment Rules of Sailing.

## **BOLD BLUE TYPE indicates a {state your MNA here} prescription.**

#### **BOLD Green TYPE indicates a {state your race here} prescription.**

Guidance notes and recommendations have been removed from the Regulations and are available on: https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/

The use of the masculine gender shall be taken to mean either gender.

#### Administration

The Offshore Special Regulation are administered by the World Sailing Special Regulation Sub-Committee whose terms of reference (<a href="https://www.sailing.org/inside-world-sailing/rules-regulations/constitution-regulations/">https://www.sailing.org/inside-world-sailing/rules-regulations/constitution-regulations/</a>) are as follows: World Sailing Regulation 6.9.8.3 - The Special Regulations Sub-Committee shall:

- (a) be responsible for the maintenance, revision and changes to the World Sailing Offshore Special Regulations governing offshore racing, under licence from ORC Ltd. Such changes shall be biennial with revised editions published in January of each even year, except that matters of an urgent nature affecting safety may be dealt with by changes to the Regulations on a shorter time scale,
- (b) monitor developments in offshore racing relative to the standards of safety and seaworthiness.

Any queries please email: technical@sailing.org

#### **SECTION 1 – FUNDAMENTAL AND DEFINITIONS**

## 1.01 Purpose and Use

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- 1.01.1 The purpose of the Offshore Special Regulations (*OSR*) is to establish uniform minimum equipment, accommodation and training standards for *monohull* and *multihull* (excluding proa [asymmetrical catamaran]) boats racing offshore.
- 1.01.2 The *OSR* do not replace, but supplement, the requirements of governmental authority, Classification Society certification, the Racing Rules of Sailing (*RRS*), Equipment Rules of Sailing (*ERS*), class rules and Rating Systems.
- 1.01.3 Use of the *OSR* does not guarantee total safety of the boat and her crew. Particular attention is drawn to the description of *OSR* for inshore racing which includes that adequate shelter and or effective rescue is available all along the course. This is not included in more onerous *OSR* categories.

## 1.02 Responsibility of Person in Charge

- 1.02.1 Under RRS 3 the responsibility for a boat's decision to participate in a race or continue racing is hers alone. The safety of a boat and her crew is the sole and inescapable responsibility of the Person in Charge who shall do his best to ensure that the boat is fully found, thoroughly seaworthy and manned by an experienced and appropriately trained crew who are physically fit to face all weather. The person in charge shall also assign a person to take over his responsibilities in the event of his incapacitation.
- 1.02.2 Neither the establishment of the *OSR*, nor their use by Organizing Authorities, nor the inspection of a boat under the *OSR* in any way limits or reduces the complete and unlimited responsibility of the Person in Charge.
- 1.02.3 By participating in a race conducted under the *OSR*, the person in charge, each competitor and boat owner agrees to reasonably cooperate with the Organizing Authority and World Sailing in the development of an independent incident report as specified in *OSR* 2.02.

#### 1.03 Definitions, Abbreviations, Word Usage

# 1.03.1 Table 1 – Definitions of Terms used in this document

Abbreviation	Description
#	Pound force (lbf)
ABS	American Bureau of Shipping
AIS	Automatic Identification Systems
Coaming	The part of the cockpit, including the transverse after limit, over which water would run when the boat is floating level and the cockpit is filled to overflowing
COLREGS	International Regulations for Preventing Collisions at Sea
Contained Cockpit	A cockpit where the combined area open aft to the sea is less than 50% maximum cockpit depth x maximum cockpit width
Crewmember	Every person on board
DSC	Digital Selective Calling
EN	European Norm
EPIRB	Emergency Position-Indicating Radio Beacon
ERS	World Sailing - Equipment Rules of Sailing
First Launch	Month & year of the first launching when the individual boat, was completed and equipped for sailing
GMDSS	Global Maritime Distress & Safety System

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•	iore special	Regulations 2022-2023 for all Offshore Categories
	GPS	Global Positioning System
	Hatch	The term hatch includes the entire hatch assembly including the lid or cover as part of that assembly
	HMPE	High Modulus Polyethylene (Dyneema®/Spectra® or equivalent)
	IBRD	International Beacon Registration Database
	IMO	International Maritime Organisation
	ISAF	International Sailing Federation – (now World Sailing)
	ISO	International Standard Organization or International Organization for Standardization
	Jackstay	A <i>securely fastened</i> webbing or rope which permits a <i>crewmember</i> to move from one part of the boat to another without having to unclip a safety harness <i>tether</i>
	L <sub>H</sub>	Hull Length as defined by the ERS
	Lifeline	Rope or wire line rigged as guardrail/guardline around the deck
	LSA	IMO International Life-Saving Appliance Code
	LwL	(Length of) loaded waterline
	Moveable Ballast	Material carried for the sole purpose of increasing weight and/or influencing stability and/or trim and which may be moved transversely but not varied in weight while a boat is racing
	ORC	Offshore Racing Congress (formerly Offshore Racing Council)
	OSR	Offshore Special Regulation(s)
	Permanently Installed	The item is effectively built-in by e.g. bolting, welding, glassing etc. and may not be removed for or during racing
	PLB	Personal Locator Beacon
	Rode	Rope, chain, or a combination of both, which is used to connect an anchor to the boat
	RRS	World Sailing - Racing Rules of Sailing
	Securely Fastened	Held strongly in place by a method (e.g. rope lashings, wing nuts) which will safely retain the fastened object in severe conditions including a 180° capsize and allows for the item to be removed and replaced during racing
	SOLAS	Safety of Life at Sea Convention
	STCW	Standards of Training, Certification and Watchkeeping for Seafarers
	SSS	The Safety and Stability Screening numeral
	STIX	ISO 12217-2 Stability Index
	Tether	A safety line used to connect a safety harness to a strong point or Jackstay
	Variable Ballast	Water carried for the sole purpose of influencing stability and/or trim and which may be varied in weight and/or moved while a boat is racing.
	World Sailing	formerly the International Sailing Federation or ISAF
	WS	World Sailing

1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are permissive.

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		SECTION 2 – APPLICATION & GENERAL REQUIREMENTS
	2.01	Categories of Events
**		Organizing Authorities shall select from one of the following categories and may modify the <i>OSR</i> to suit local conditions.
	2.01.1	Category 0
MoMu0		Trans-oceanic races, including races which pass through areas in which air or sea temperatures are likely to be less than 5°C (41°F) other than temporarily, where boats must be completely self-sufficient for very extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.
	2.01.2	Category 1
MoMu1		Races of long distance and well offshore, where boats must be completely self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.
	2.01.3	Category 2
MoMu2		Races of extended duration along or not far removed from shorelines or in large, unprotected bays or lakes, where a high degree of self-sufficiency is required of the boats.
	2.01.4	Category 3
MoMu3		Races across open water, most of which is relatively protected or close to shorelines.
	2.01.5	Category 4
MoMu4		Short races, close to shore in relatively warm or protected waters normally held in daylight.
	2.01.6	Special Regulations – for Inshore Racing Short races, close to shore in relatively warm and protected waters where adequate shelter and/or effective rescue is available all along the course, held in daylight only (refer to Appendix B).
	2.01.7	Special Regulations – for Inshore Dinghy Racing
		Short races in boats that may not be self-sufficient, with rescue boats available all along the course, held in daylight only (refer to Appendix C).
	2.02	Incident Reporting
**		The Organizing Authority of a race will establish whether any incidents occurred, which if
		reported would likely be relevant to evolving the Offshore Special Regulations, the plan review process, or in increasing safety. The Organizing Authority will follow any guidelines issued by <i>WS</i> concerning incident reporting.
	2.03	Inspection
**		A boat may be inspected at any time. If she fails to comply with the <i>OSR</i> her entry may be rejected, or she will be subject to protest.
	2.04	General Requirements
**	2.04.1	All equipment required by <i>OSR</i> shall:
**		a) function properly, b) be regularly sheeked, deeped and consisted
**		<ul><li>b) be regularly checked, cleaned and serviced,</li><li>c) if it has an expiry date, it will not have exceeded its expiry date whilst racing,</li></ul>
**		<ul><li>c) if it has an expiry date, it will not have exceeded its expiry date whilst racing,</li><li>d) when not in use be stowed in conditions in which deterioration is minimised,</li></ul>
**		e) be readily accessible, and
**		f) be of a type, size and capacity suitable and adequate for the intended use and size of
		the boat.
**	2042	Harry Strong shall be a supposed by Sortella day, as somely Casterna d

2.04.2 Heavy items shall be *permanently installed* or *securely fastened*.

		<b>SECTION 3 – STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT</b> A boat shall be/have:
	3.01	Strength of Build and Rig
**	3.01.1	Properly rigged, fully seaworthy and shall meet the OSR.
**	3.01.2	Equipped with shrouds and at least one forestay that shall remain connected to the mast and the boat while racing (not applicable to boats with free-standing masts).
**	3.01.3	The forestay referenced above shall be sized and connected in a way that ensures it is capable of withstanding the full sailing loads independent of any headsail luff load capacity.
	3.02	Watertight and Structural Integrity of a Boat
**	3.02.1	Essentially watertight and all openings shall be capable of being immediately secured. Centreboard, daggerboard trunks and the like shall not open into the interior of a hull except via a watertight maintenance <i>hatch</i> with the opening entirely above the <i>waterline</i> .
Mo0,1,2	3.02.2	Structural Inspection – Consult the owner's manual for any instructions for keel bolt checking and re-tightening. The following inspection to be conducted by a qualified person
		externally with the boat out of the water. Check that there are no visible stress cracks particularly around the keel, hull/keel attachment, hull appendages and other stress points, inside the hull, backing plates, bolting arrangements and keel floors. (See Appendix L –
		Model Keel and Rudder Inspection Procedure).
Mo0,1,2	3.02.3	Evidence of a structural inspection in accordance with 3.02.2 within 24 months before the start of the race or after a grounding whichever is the later.
Mo3	3.02.4	At a haul-out within 2 years prior to the event, the owner or his/her representative shall inspect the integrity of the keel and rudder following the recommendations in Appendix L.
Mo0,1,2,3	3.02.5	Inspection after Grounding – an appropriately qualified person shall conduct an internal and external inspection after each unintentional grounding.
	3.03	Hull Construction Standards (Scantlings)
Mo0,1,2	3.03.1	A <u>monohull</u> with a <u>series date</u> after 2009
Mo0,1,2		a) of less than 24 m (78'-9") $L_H$ shall have:
Mo0,1,2		i been designed, built and maintained in accordance with the requirements of <i>ISO</i> 12215 Category A, and
Mo0,1,2		ii have a WS/ISAF building plan review certificate issued from a notified body
		recognized by WS, unless higher classification has been obtained from a Classification Society recognised by WS. WS will publish a list of waived plan review certificates.
Mo0,1,2		b) of 24 m (78'-9") L <sub>H</sub> and greater shall have been designed, built and maintained in
		accordance with the requirements of a Classification Society recognized by WS,
Mo0,1,2		c) have a builder's declaration signed and dated by the builder to confirm the boat is built in accordance with the reviewed plans. In cases when a builder no longer exists,
		an Organizing Authority or class rules may accept a signed statement by a naval architect or other person familiar with the requirements of above in lieu of the builder's declaration, and
Mo0,1,2		d) have an additional WS/ISAF certificate of building plan review in accordance with a)
		or b), and c) above for any significant repair of modification to the hull, deck, coachroof, keel or appendages.
MoMu0,1,2	3.03.2	A <i>monohull</i> with <i>series date</i> between 1987 and 2010, and all <i>multihulls</i> , shall have been
1101100/1/2	3.03.2	designed, built, maintained, modified or repaired in accordance with the requirements of:
Mo0,1,2		a) OSR 3.03.1, or
Mo0,1,2		b) the <i>ABS</i> Guide for Building and Classing Offshore Yachts and have on board either an <i>ABS</i> certificate of plan approval, or written statements signed by the designer and builder confirming that they have respectively designed and built the boat in
		accordance with the ABS Guide, or

	Offs	hore	Special Regulations 2022-2023 for all Offsho	re (	Cate	gories		
MoMu0,1,2		c)	the EC Recreational Craft Directive for Category A having obtained the CE mark, or					
MoMu0,1,2		d)	ISO 12215 Category A, with written statements signed by the designer and builder confirming that they have respectively designed and built the boat in accordance with					
M-M-0 1 2		- \	the ISO standard, and	- \	I- X	\ -		N = l= =
MoMu0,1,2		e)	have written statements or approvals in accordance with a), or b) or c) and d) above for all significant repairs or modifications to the hull, deck, coach roof, keel or					
M-M-0 1 2		<b>5</b>	appendages, on board, except	ــ حاد		انسممالم	: امـــ	
MoMu0,1,2		f)	hat an Organizing Authority or class rules may accept, when that described in a), b), d) or e) above is not available, the signed statement by a naval architect or other erson familiar with the standards listed above that the boat fulfils these equirements.					
	3.04	Stal	oility – Monohulls					
Mo0,1,2,3 Mo0,1,2,3	3.04.1	* Th	e latest effective version of <i>ISO</i> 12217-2 should be used upper to a previous version.  The compliance in accordance with <i>OSR</i> 3.04.1 cannot be compliance.					•
1100,1,2,5	3.0 1.2		to demonstrate either:	aCI1	10115616	acca, a	Doa	. Shan be
Mo0,1,2,3			le 2 - STIX, AVS and m*A <sub>GZ</sub> Requirements					
Mo0,1,2,3		a)	Race Category	N	0	1,2		3
		•	minimum <i>ISO</i> 12217-2 Stability Index (STIX)	7		32		23
				· /	,	,		30-
			minimum ISO 12217-2 Angle of Vanishing Stability (AVS	')  -		002*m	0.0	05*m
			but always >=		10	)0°		95°
			a minimum righting energy m*A <sub>GZ</sub> (where A <sub>GZ</sub> is the positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS)		172	2000	5	7000
Mo0,1,2,3 Mo0,1,2,3		or <b>Tab</b> l	le 3 – ORC Stability Index or SSS Requirements					
Mo0,1,2,3		b)	Race Category	0		1	2	3
			minimum Stability Index in <i>ORC</i> Rating System, or	12	0 1	15 1	10	103
			minimum IRC Safety and Stability Screening numeral (SSS) Base value		35	2	28	15
Mo0	3.04.3		at shall be capable of self-righting from an inverted positivention from the crew and independent of the condition of				ut re	easonable
Mu0,1,2,3,4	<b>3.05</b> 3.05.1	Wate flota	cility and Flotation — Multihulls ertight bulkheads and compartments (which may include particular in each hull, to ensure that the boat is effect to bating in a stable position with at least half the length of call. 2).	ctiv	ely un	sinkabl	e and	d capable
Mu0,1,2,3,4	3.05.2	If <i>first launched</i> after 1998, a boat shall have transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in every hull without accommodations.						
Mu0,1,2,3,4	3.05.3	Desi	gned and built to resist capsize.					
Mo0,1,2,3,4	<b>3.06</b> 3.06.1	<b>Exits – Monohulls</b> If the <u>series date</u> is after 1994 and $L_H$ is 8.5 m (28') and greater, a boat shall have at least two exits. One exit shall be located forward of the foremost mast except where structural features prevent its installation.						
Mo0,1,2,3,4 Mo0,1,2,3,4	3.06.2	If <i>first launched</i> after 2013, the minimum clear <i>hatch</i> openings shall be: a) a circular <i>hatch</i> with diameter 450 mm (18"), or						

#### Offshore Special Regulations 2022-2023 for all Offshore Categories Mo0,1,2,3,4 any other shape with minimum dimension of 380 mm (15") and minimum area of 0.18 m<sup>2</sup> (1.9 ft<sup>2</sup>) (see figure 1). Mo0,1,2,3,4 380 Figure 1 – Measurements of Minimum Clear Opening 3.07 **Exits and Escape Hatches - Multihulls** 3.07.1 Exits Mu0,1,2,3 At least two exits in each hull which contains accommodations. a) Mu4 If 8 m (26'-3") L<sub>H</sub> and greater, at least two exits in each hull which contains accommodations. 3.07.2 Escape Hatches, Underside Clipping Points & Handholds Mu0,1,2,3,4 If 12 m (39'-4") L<sub>H</sub> and greater each hull which contains accommodation shall have: an escape *hatch* for access to and from the hull in the event of an inversion, Mu0,1,2,3,4 Mu0,1,2,3,4 if first launched after 2002, a minimum clearance diameter through each escape hatch of 450 mm (18") or when an escape hatch is not circular, sufficient clearance to allow a *crewmember* to pass through fully clothed, Mu0,1,2,3,4 each escape *hatch* above the *waterline* when the boat is inverted, if *first launched* after 2000, each escape *hatch* to be at or near the midships Mu0,1,2,3,4 if a catamaran first launched after 2002, each escape hatch to be on the side Mu0,1,2,3,4 nearest the vessel's central axis. if a trimaran first launched after 2002 with $L_H$ 12 m (39'-4") and greater, at least two Mu0,1,2,3,4 b) escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii, Mu0,1 c) if a trimaran first launched after 2002 with L<sub>H</sub> less than 12 m (39'-4"), at least one escape hatch in compliance with the dimensions in OSR 3.07.2 a) ii, Mu0,1,2,3,4 each escape hatch shall have been opened both from inside and outside within 6 d) months prior to the race, appropriate handholds/clipping points on the underside sufficient for all crewmembers Mu0,1,2,3,4 e) (on a trimaran these shall be around the central hull), a catamaran first launched after 2002, with a central nacelle, shall have on the Mu0,1,2,3,4 f) underside around the central nacelle handholds of sufficient capacity to enable *crewmembers* to hold on and/or clip on securely. Mu2,3,4 3.07.3 Escape Hatch Alternatives Mu2,3,4 If a boat has $L_H$ less than 12 m (39'-4") it shall have escape *hatches* in compliance with *OSR* 3.07.2 a), b) and c) or: Mu2,3,4 in each hull which contains accommodation, a station where an emergency *hatch* may be cut. The cutting line shall be clearly marked both inside and outside with an outline and the words "ESCAPE CUT HERE", and Mu2,3,4 tools suitable for cutting the emergency *hatch*, ready for instant use, adjacent to the cutting site. Each tool shall be secured to the vessel by a lanyard. 3.08 **Hatches & Companionways** Hatch covers forward of the maximum beam station shall not open toward the interior of 3.08.1 the boat, except *hatches* in the side of a coachroof or ports having an area of less than 0.071 m<sup>2</sup> (110 in<sup>2</sup>).

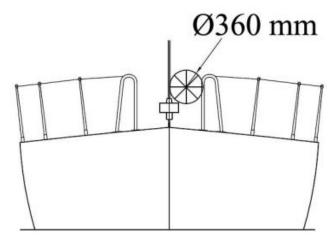
A *hatch*, including a *hatch* over a locker shall be:

3.08.2

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**		<ul> <li>permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize,</li> </ul>		
Mo0,1,2,3,4		b) above the water when the boat is heeled 90°.		
Mo0,1,2,3,4		A boat may have a maximum of two <i>hatches</i> on each side of centerline that do not conform to the requirement in b), provided that the opening of each is less than 0.071 m <sup>2</sup> (110 in <sup>2</sup> ).		
**	3.08.3	Hatches not conforming with OSR 3.08.1 and OSR 3.08.2 shall be clearly labelled and used in accordance with the following instruction "NOT TO BE OPENED AT SEA".		
**	3.08.4	Companionway hatches:		
**		a) fitted with a strong securing arrangement which shall be operable from the exterior and interior even when the boat is inverted,		
**		b) blocking devices:		
**		i capable of being retained in position with the <i>hatch</i> open or shut,		
**		<ul><li>ii secured to the boat (e.g. by lanyard) for the duration of the race, and</li><li>iii permit exit in the event of inversion.</li></ul>		
Mo0,1,2,3,4 Mo0,1,2,3,4	3.08.5	If a <u>monohull</u> with cockpit(s) that is/are not <u>contained cockpit(s)</u> a boat shall have: a) a companionway sill that does not extend below the local sheerline, or		
Mo0,1,2,3,4		b) a companionway in full compliance with ISO 11812 category A.		
Mo0,1,2,3,4	3.08.6	If a <u>monohull</u> with <u>contained cockpit(s)</u> where the companionway extends below the local sheerline, a boat shall have panels capable of blocking the companionway up to the level of the local sheerline whilst giving access to the interior.		
Mu0,1,2,3,4	3.08.7	If a <u>multihull</u> with a companionway <i>hatch</i> extending below the local sheerline a boat shall either:		
Mu0,1,2,3,4		a) have a minimum sill height of 300 mm (12") and be capable of being blocked off up to the level of the local sheerline whilst giving access to the interior with the blocking device(s) in place, or		
Mu0,1,2,3		b) be in compliance with <i>ISO</i> 11812 to design category A.		
Mu4		c) be in compliance with <i>ISO</i> 11812 to design category B.		
	3.09	Cockpits		
	3.09.1			
**	Siddle	<ul> <li>a) cockpits shall self-drain quickly by gravity at all angles of heel and are permanently incorporated as an integral part of the boat,</li> </ul>		
**		b) a cockpit sole shall be at least 2% $L_{WL}$ above the <u>waterline</u> (or in IMS boats with <i>first launch</i> before 2003, at least 2% L above the <u>waterline</u> ), and		
**		c) a bow, lateral, central, or stern well is a cockpit for the purposes of <i>OSR</i> 3.09.		
	3.09.2	Cockpit Volume		
**		The maximum combined volume below lowest <i>coamings</i> of all <i>contained cockpits</i> shall be:		
MoMu0,1		a) <u>series date</u> before April 1992: 6% ( <i>L<sub>WL</sub></i> x maximum beam x freeboard abreast the cockpit),		
MoMu2,3,4		b) <u>series date</u> before April 1992: 9% ( <i>L<sub>WL</sub></i> x maximum beam x freeboard abreast the cockpit),		
**		c) <u>series date</u> after March 1992 as above for the appropriate category except that "lowest <i>coamings</i> " shall not include any aft of the FA station (the transverse station at which the upper corner of the transom meets the sheerline) and no extension of a cockpit aft of the working deck shall be included in calculation of cockpit volume.		
	3.09.3	3 Cockpit Drains		
**		Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of:		
**		a) if less than 8.5 m (28') L <sub>H</sub> . 2 x 25 mm (1") diameter or equivalent,		
**		b) if 8.5 m (28') $L_H$ or greater: 4 x 20 mm (3/4") diameter or equivalent.		
		, (-) 2 (-)		

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	3.10	Sea Cocks or Valves
**		Permanently installed sea cocks or valves on all through-hull openings below the <u>waterline</u> except for integral deck scuppers and instrument through-hulls.
	3.11	Sheet Winches
**		Sheet winches mounted in such a way that an operator is not required to be substantially below deck.
	3.12	Mast Step
**		The heel of a keel stepped mast <i>securely fastened</i> to the mast step or adjoining structure.
	3.13	Watertight Bulkheads
Mo0Mu**	3.13.1	Either a watertight "crash" bulkhead within 15% of $L_H$ from the bow and abaft the forward end of $L_{WL}$ , or <i>permanently installed</i> closed-cell foam buoyancy effectively filling the forward 30% $L_H$ of the hull.
Mo0Mu**	3.13.2	Any required watertight bulkhead to be strongly built to take a full head of water pressure
		without allowing any leakage into the adjacent compartment.
Mo0	3.13.3	At least two watertight transverse main bulkheads in addition to any bulkheads positioned within the forward and aft 15% of $L_H$ .
Mo0	3.13.4	Outside deck access for inspection and pumping shall be provided to every watertight compartment terminated by a hull section bulkhead, except that deck access to extreme end "crash" compartments is not required.
Mo0	3.13.5	An access <i>hatch</i> in every required watertight bulkhead (except a "crash" bulkhead). The access <i>hatch</i> shall have means of watertight closure permanently attached to the main panel, or lid, or cover of the <i>hatch</i> . The closure shall not require tools to operate.
	3.14	Pulpits, Stanchions, Lifelines
	3.14.1	General
**		The perimeter of the deck surrounded by system of <i>lifelines</i> and pulpits as follows:
**		a) continuous <i>lifelines</i> fixed only at (or near) the bow and stern. However, a gate on each side of a boat is permitted. Except at its end fittings and at gates, the movement of a <i>lifeline</i> in a fore-and-aft direction shall not be constrained. Temporary sleeving shall not modify tension in the <i>lifeline</i> ,
**		b) minimum heights of <i>lifelines</i> and pulpit rails above the working deck and vertical openings:
**		i upper: 600 mm (24"),
**		ii intermediate: 230 mm (9"),
**		iii vertical opening: no greater than 380 mm (15") except that on a boat with a <u>series date</u> before 1993 where it shall be no greater than 560 mm (22"),
MoMu3,4		iv a boat less than 8.5 m (28') L <sub>H</sub> may use a single <i>lifeline</i> system with a height between 450 mm (18") and 560 mm (22").
**		<ul> <li>c) lifelines permanently supported at intervals of not more than 2.2 m (7'-2 1/2") and shall not pass outboard of supporting stanchions,</li> </ul>
**		<ul> <li>d) pulpit and stanchion bases permanently installed with pulpits and stanchions mechanically retained in their bases,</li> </ul>
**		e) the outside of pulpit and stanchion base tubes no further inboard from the edge of the working deck than 5% of maximum beam or 150 mm (6"), whichever is greater, nor further outboard than the edge of the working deck,
**		f) stanchions straight and vertical except that:
**		i within the first 50 mm (2") from the deck, stanchions shall not be displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8"),
**		<ul><li>stanchions may be angled to not more than 10° from vertical at any point above</li><li>50 mm (2") from the deck.</li></ul>

g) a bow pulpit may be open provided the opening between the pulpit and any part of the boat does not exceed 360 mm (14"),



## Figure 2 – Diagram Showing Pulpit Opening

- h) *lifelines* may terminate at or pass through adequately braced stanchions set inside and overlapping the bow pulpit,
- i) when a deflecting force of 4 kg (8.8 #) is applied to a *lifeline* at the mid-point of the longest span between supports that are aft of the mast, the deflection shall not exceed:
  - i 50 mm (2") for an upper or single *lifeline*,
  - ii 120 mm (4 34") for an intermediate lifeline.

# 3.14.2 Special Requirements for Pulpits, Stanchions, Lifelines on Multihulls

When on a boat it is impractical to precisely follow *OSR* regarding pulpits, stanchions, *lifelines*, the regulations for monohulls shall be followed as closely as possible.

## 3.14.3 Lifeline Specifications

- a) lifelines of stranded stainless steel wire,
- b) *lifelines* of either:
  - i stranded stainless steel wire, or
  - ii *HMPE.*
- c) The minimum diameter is specified in table 4 below,
- Stainless steel *lifelines* shall be uncoated and used without close-fitting sleeving, however, temporary sleeving may be fitted provided it is regularly removed for inspection,
- e) A lanyard of synthetic rope may be used to secure *lifelines* provided the gap it closes does not exceed 100 mm (4"). This lanyard shall be replaced annually,
- f) All components of the *lifeline* enclosure system shall have a breaking strength no less than the *lifeline*,
- g) When *HMPE* is used, it shall be protected from chafe and spliced in accordance with the manufacturer's recommended procedures.

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Mu0,1,2,3,4

Mo0,1,2,3 Mo4Mu\*\*

Mo4Mu\*\*

Mo4Mu\*\*

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Mo4Mu\*\*

**		Table 4 – Life	line Diameter R	equirements	
		Lн	Wire Min. <i>lifeline</i>	HMPE rope (Single braid)	HMPE Core (Braid on braid)
			diameter	min. <i>lifeline</i> diameter	min. <i>lifeline</i> diameter
		under 8.5 m (28')	3 mm (1/8")	4 mm (5/32")	4 mm (5/32")
		8.5m – 13 m	4 mm (5/32")	5 mm (3/16")	5 mm (3/16")
		over 13 m (42' 8")	5 mm (3/16")	5 mm (3/16")	5 mm (3/16")
	3.15	Multihull Nets	or Trampoline	s	
	3.15.1	General			
Mu0,1,2,3,4			•	" are interchangeable. A ne	et shall be:
Mu0,1,2,3,4			horizontal,		
Mu0,1,2,3,4		not larger	than 5 cm (2") in		fabric, or mesh with openings nt points shall be planned to nall present no risk of foot
Mu0,1,2,3,4		c) solidly fixe	ed at regular inter tched to a bolt ro		gitudinal support lines and shall
Mu0,1,2,3,4		•	rry the full weight capsize when the		nal working conditions at sea or
	3.15.2		th Double Cross		
Mu0,1,2,3,4				ms shall have nets on each	
Mu0,1,2,3,4				ssbeams, central hull and o	
Mu0,1,2,3,4				aft end of the central pulp intersection of the crossb	
Mu0,1,2,3,4		c) the triang (whicheve intersection	les formed by the or is furthest aft), on of the crossbea	aftermost part of the cock the mid-point of each after m and the central hull, exc	pit or steering position crossbeam, and the cept that:
Mu0,1,2,3,4				irement when cockpit <i>coar</i> mum height requirements	<i>nings</i> and/or <i>lifelines</i> are presei in <i>OSR</i> 3.14.
	3.15.3		th Single Crossb		
Mu0,1,2,3,4		outrigger on ea and the outrigg	ch side between ter, respectively to	the aft end of the pulpit of	n the central hull and each intersection of the crossbeam on the central hull, and to the entral hull (whichever is furthes
	3.16	Catamarans			
Mu0,1,2,3,4			all have nets cove	ering the area defined:	
Mu0,1,2,3,4	3.16.1	laterally by the		•	
Mu0,1,2,3,4	3.16.2	the boom lying	•	vever, a catamaran with a	ase, and the aftermost point of central nacelle (non-immersed)
	3.17	Toe Rail or Fo	ot-Stop		
Mo0,1,2,3	3.17.1	practicable to t	he stanchion base	minimum height 25 mm (1 es, around the foredeck from 1984, an additional <i>lifelin</i>	m abreast the mast.
Mo0,1,2,3	3.17.2	high is permitte	<u>series date</u> before ed in lieu of a toe	-	<i>e</i> of between 25–50 mm (1–2"
M-M- 0 1 2	3.18	Toilet	-t-#- d: '' '		
MoMu0,1,2	3.18.1	Permanently in		0 August 2022 - Dago 11	- 4 2 5

	Offs	hore Special Regulations 2022-2023 for all Offshore Categories			
MoMu3,4	3.18.2	Permanently installed toilet or fitted bucket.			
	3.19	Bunks			
MoMu1,2,3,4	3.19.1	Permanently installed bunks.			
MoMu0	3.19.2	Permanently installed bunk for each crewmember.			
	3.20	Cooking Facilities			
MoMu0,1,2,3		Permanently installed cooking stove, capable of being operated safely at sea, with fuel shutoff control.			
	3.21	Drinking Water Tanks & Drinking Water			
	3.21.1	Drinking Water Tanks			
MoMu0		a) <i>permanently installed</i> delivery pump and water tanks dividing the water supply into at least three compartments.			
MoMu1		b) <i>permanently installed</i> delivery pump and water tanks dividing the water supply into at least two compartments.			
MoMu2,3		c) permanently installed delivery pump and water tank(s).			
	3.21.2				
MoMu0		Equipment (which may include watermakers and tanks containing water) <i>permanently installed</i> to provide at least 3 L (0.8 US Gal) of drinking water per person per day for the likely duration of the passage.			
	3.21.3	Emergency Drinking Water			
MoMu1,2,3		a) at least 9 L (2.4 US Gal) of drinking water for emergency use in a dedicated and sealed container or container(s).			
MoMu0		<ul> <li>in the absence of a power driven watermaker, at least 1 L (0.26 US Gal) per person per day in at least two separate containers shall be provided for the expected duration of the voyage,</li> </ul>			
MoMu0		<ul> <li>when a power-driven watermaker is on board, at least 500 mL (0.13 US Gal) per person per day in at least two separate containers shall be provided for the expected duration of the voyage,</li> </ul>			
MoMu0		<ul> <li>facilities shall be provided to collect rainwater for drinking purposes including when dismasted.</li> </ul>			
	3.22	and Holds			
**		Adequate hand holds fitted below deck.			
	3.23	Bilge Pumps and Buckets			
**	3.23.1	a) two strong buckets, each with a lanyard and of at least 9 L (2.4 US Gal) capacity,			
Mo0,1,2		b) two <i>permanently installed</i> manual bilge pumps, one operable from above, the other from below deck,			
Mo3Mu0,1,2		c) one <i>permanently installed</i> manual bilge pump,			
Mo4		d) one manual bilge pump,			
Mu0,1,2,3,4		<ul> <li>e) provision to pump out all watertight compartments (except those filled with impermeable buoyancy).</li> </ul>			
**	3.23.2	All required <i>permanently installed</i> bilge pumps shall be operable with all cockpit seats, <i>hatches</i> and companionways shut and with <i>permanently installed</i> discharge pipe(s) of sufficient capacity.			
**	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge into a contained cockpit.			
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing out debris.			
**	3.23.5	All removable bilge pump handles retained by a lanyard.			
	3.24	Compass			
MoMu0,1,2,3 **		Marine magnetic compass capable of being used as a steering compass:  a) Permanently installed marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card,			

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MoMu0,1,2,3		b) a second compass which may be hand-held and/or electronic.
	3.25	Halyards
**	3.25.1	A minimum of two halyards, each capable of hoisting a sail, on each mast.
MoMu0,1,2,3	3.25.2	No halyard shall be locked, lashed, or otherwise secured to the mast in a way that requires
		a person to go aloft to lower a sail in a controlled manner, except for a headsail in use with a furling device.
	3.26	Bow Fairlead
Mo0		Bow fairlead, closed or closable and a cleat or securing arrangement, suitable for towing, <i>permanently installed</i> .
	3.27	Navigation Lights
**	3.27.1	That conform to the International Regulations for Preventing Collisions at Sea (Part C and Technical Annex I) and shall be exhibited as required by those regulations.
**	3.27.2	Mounted above sheerline and so that they will not be masked by sails or the heeling of the boat.
MoMu0,1,2,3	3.27.3	Reserve lights having the same specifications as above, and that can be powered independently.
**	3.27.4	Spare bulbs (not required for LED).
	3.28	Engines, Generators, Fuel
	3.28.1	Propulsion Engines
**		a) engines and associated systems installed in accordance with their manufacturers' guidelines and suitable for the size and intended use of the boat,
MoMu0,1,2,3		b) an engine which provides a minimum speed in knots of (1.8 x $\sqrt{L_{WL}}$ in metres) or ( $\sqrt{L_{WL}}$ in feet),
Mo0,1,2Mu0		c) inboard engine,
Mu1,2,3		d) inboard engine, however, if less than 12.0 m (39'-4") $L_H$ either an inboard engine, or
		an outboard engine together with permanently installed power supply systems,
Mo3		e) either an inboard or outboard engine, with associated power supply systems, all
**		securely fastened,
7-7-		f) an inboard combustion engine shall have a <i>permanently installed</i> exhaust, cooling system, fuel supply, fuel tank(s) and shall have adequate heavy weather protection,
**		g) an inboard electrical engine, when fitted, shall be provided with a <i>permanently</i>
		installed power supply, adequate heavy weather protection and have an engine
		control system.
	3.28.2	Generator
**		If an optional generator separate from the propulsion engine is carried, it shall be installed
		in accordance with the manufacturer's guidelines.
	3.28.3	Liquid Fuel Systems
MoMu0,1,2,3		<ul> <li>a) all fuel tanks for storage of liquid fuels shall be rigid (but may have permanently installed flexible linings) and shall have a shutoff valve,</li> </ul>
MoMu0,1,2,3		b) at the start a boat with a combustion engine shall carry sufficient fuel to meet
		charging requirements for the duration of the race and to motor at the above minimum speed for at least 5 hours.
	3.28.4	Battery Systems
**		<ul> <li>a) batteries installed after 2011 shall be of the sealed type from which liquid electrolyte cannot escape,</li> </ul>
**		b) At the start a boat with an electric engine shall carry sufficient capacity to meet electrical requirements for the duration of the race and to motor at the above

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method for starting the engine and/or separate generator,

a dedicated engine/generator starting battery when an electric starter is the only

minimum speed for at least 5 hours.

MoMu0,1,2,3

c)

	UTTS	nore Special Regulations 2022-2023 for all Offshore Categories					
	3.29	Communications Equipment, GPS, Radar, AIS					
MoMu1,2,3,4	3.29.1	A hand-held marine VHF transceiver, watertight or with a waterproof cover. When not in use to be stowed in a grab bag or emergency container (see <i>OSR</i> 4.21).					
MoMu0	3.29.2	At least two hand-held marine VHF transceivers each with min 5 W output power,					
Horido	3.23.2	watertight or with waterproof covers. When not in use to be stowed in a grab bag (see <i>OSR</i> 4.21).					
**	3.29.3	A second radio receiver, which may be the handheld VHF in <i>OSR</i> 3.29.1 above, capable of receiving weather bulletins.					
MoMu0,1,2,3	3.29.4	A marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast.					
MoMu0,1,2,3	3.29.5	If the marine radio transceiver is a VHF:					
MoMu0,1,2,3		a) a minimum rated output power of 25 W,					
MoMu1,2,3		b) if installed after 2015 be <i>DSC</i> capable,					
MoMu0		c) a marine VHF <i>DSC</i> radio covering all international and US marine channels and meeting International Telecommunications Union (ITU) class D.					
MoMu0,1,2		d) a masthead antenna not less than 38 cm (15") in length and co-axial feeder cable with not more than 40% power loss,					
MoMu3		e) a masthead antenna and co-axial feeder cable with not more than 40% power loss,					
MoMu1,2,3		f) DSC capable VHF transceivers shall be programmed with an assigned MMSI (unique to the boat), be connected to a GPS receiver and be capable of making distress alert calls as well as sending and receiving a DSC position report with another DSC					
		equipped station,					
Mo0,1,2,3	3.29.6	An AIS Transponder which either:					
Mu1,2,3		a) about the most had MIF askers is a low loss ATC askers a within an					
MoMu0,1,2,3 MoMu0,1,2,3		<ul> <li>a) shares the masthead VHF antenna via a low loss AIS antenna splitter, or</li> <li>b) has a dedicated AIS antenna not less than 38 cm (15") in length mounted with its base not less than 3 m (10") above the <u>waterline</u> and co-axial feeder cable with not more than 40% power loss.</li> </ul>					
Mu0		The AIS transponder shall be class A.					
MoMu3	3.29.7	A GPS.					
MoMu1	3.29.8	One hand-held satellite telephone, watertight or with waterproof cover and internal battery.					
MoMu0	3.29.9	At least two hand-held satellite telephones, watertight or with waterproof covers and internal batteries. When not in use each to be stowed in a grab bag (see <i>OSR</i> 4.21),					
MoMu0	3.29.10	A direction-finding radio receiver operating on 121.5 MHz to take a bearing on a <i>PLB</i> or <i>EPIRB</i> , or an alternative device for crew overboard location when each <i>crewmember</i> has an appropriate personal unit (see <i>OSR</i> 4.22.1).					
MoMu0	3.29.11	A satellite device able to send and receive data and a tracking device shall be <i>permanently installed</i> and permanently powered up for the duration of the race and for which the race committee shall have polling authority.					
MoMu0	3.29.12	An MF/HF marine SSB transceiver ( <i>GMDSS/DSC</i> ) with at least 125 W transmitter power and frequency range from at least 1.6 to 29.9 MHz with <i>permanently installed</i> antenna and earth.					
MoMu0	3.29.13	An active radar set <i>permanently installed</i> either:					
MoMu0		a) a pulse (magnetron) unit with not less than 4 kW PEP and an antenna unit with a maximum dimension not less than 533 mm, or					
MoMu0		b) a frequency modulated continuous wave (FMCW) Broadband Radar <sup>™</sup> unit. The radar antenna unit shall remain essentially horizontal when the boat is heeled and at least 7 m (23') above the water. Installations in place before January 2006 shall comply as closely as possible with OSR 3.29.13 a).					

	Offs	shore Special Regulations 2022-2023 for all Offshore Categories
		SECTION 4 – PORTABLE EQUIPMENT
		A boat shall have:
	4.01	Sail Letters & Numbers
**	4.01.1	Identification on sails which complies with RRS 77 and RRS Appendix G.
MoMu0,1,2,3	4.01.2	An alternative means of displaying identification as required under <i>RRS</i> Appendix G for a mainsail, to be displayed when none of the numbered sails are set.
	4.02	Search and Rescue Visibility
MoMu0	4.02.1	A 4 m <sup>2</sup> (43 ft <sup>2</sup> ) area of highly visible pink, orange or yellow on the coachroof and/or deck.
Mo1Mu1,2	4.02.2	A 1 m <sup>2</sup> (11 ft <sup>2</sup> ) solid area of highly visible pink, orange or yellow capable of being displayed on the coachroof and/or deck.
Mu0,1,2,3,4	4.02.3	A 1 m² (11 ft²) area of highly visible pink, orange or yellow showing when the boat is inverted.
	4.03	Soft Wood Plugs
**		A tapered soft wood plug stowed adjacent to every through-hull opening.
	4.04	Jackstays and Clipping Points
MoMu0,1,2,3	4.04.1	Permanently Installed fittings for jackstay ends and clipping points.
MoMu0,1,2,3	4.04.2	Jackstays which shall:
MoMu0,1,2,3		a) be independent on each side of the deck,
MoMu0,1,2,3		b) enable a <i>crewmember</i> to move readily between the working areas on deck and the
, , ,		cockpit(s) with the minimum of clipping and unclipping operations,
MoMu0,1,2,3		c) have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved
		stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16"), webbing or HMPE
		rope.
MoMu0,1,2,3	4.04.3	Clipping points which shall:
MoMu0,1,2,3		<ul> <li>be adjacent to stations such as the helm, sheet winches and masts, where crewmembers work,</li> </ul>
MoMu0,1,2,3		b) enable a <i>crewmember</i> to clip on before coming on deck and unclip after going below,
MoMu0,1,2,3		c) enable two-thirds of the crew to be simultaneously clipped on without depending on
		jackstays,
Mu0,1,2,3		d) on a trimaran with a rudder on the outrigger, permit a <i>crewmember</i> to repair the
		steering mechanism whilst attached to a clipping point.
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device.
MoMu1,2,3	4.05.2	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the
	4.05.0	boat.
MoMu4	4.05.3	2 fire extinguishers in different parts of the boat.
MoMu0	4.05.4	3 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the
		boat, one system of which is to deal with fire in a machinery space.
	4.06	Anchors
MoMu1,2,3	4.06.1	2 un-modified anchors that meet the anchor manufacturer's recommendation based on the
		boat's dimensions with suitable combination of chain and rope, ready for immediate
		assembly, and ready for deployment within 5 minutes except that for a boat less than 8.5
MaMud	4.06.2	m (28') L <sub>H</sub> there shall be 1 anchor meeting the same criteria.  1 un-modified anchor that meets the anchor manufacturer's recommendation based on the
MoMu4	4.06.2	boat's dimensions with suitable combination of chain and rope, ready for immediate
		assembly, and ready for deployment within 5 minutes.
MoMu0	4.06.3	Anchors, chain and rope which comply with relevant class rules or the rules of a recognised
i loi lao	1.00.5	Classification Society.

	Offs	hore Special Regulations 2022-2023 for all Offshore Categories
	4.07	Flashlights and Searchlights
**		Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3		<ul> <li>a searchlight, suitable for searching for a person overboard at night and for collision avoidance,</li> </ul>
MoMu0,1,2,3		b) a flashlight in addition to OSR 4.07 a),
Mu3,4		c) the watertight flashlight in <i>OSR</i> 4.07 b) shall be stowed in the grab bag or emergency container.
MoMu0		<ul> <li>a high-intensity heavy duty searchlight powered by the boat's batteries, instantly available for use on deck and in the cockpit.</li> </ul>
	4.08	First Aid Manual and First Aid Kit
**		A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit shall reflect the likely conditions and duration of the passage, and the number of <i>crewmembers</i> .
**	4.09	Foghorn A foghorn.
	4.10	Radar Reflector
**	4.10.1	A passive radar reflector with:
**		a) octahedral circular plates of minimum diameter 30 cm (12"),
**		b) octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	4 10 2	c) a non-octahedral reflector with a documented root mean square minimum Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0–360° of azimuth and ±20° of heel.
MoMu0	4.10.2	A Radar Target Enhancer (RTE) which complies with <i>ISO</i> 8729-2:2009 or equivalent.
MoMu() 1 2 2	<b>4.11</b> 4.11.1	Navigation Equipment  Navigational charts (not solely electronic), light list and chart plotting equipment.
MoMu0,1,2,3 MoMu4	4.11.1	Navigational charts, light list, and chart plotting equipment. If electronic-only, an
Monut		independent alternative shall be on board.
**	4.12	Safety Equipment Location Chart
<i>ተተ</i>		A safety equipment location diagram in durable waterproof material, clearly displayed in the main accommodation, marked with the location of principal items of safety equipment.
	4.13	Depth, Speed and Distance Instruments
MoMu0,1,2,3	4.13.1	A knotmeter or distance measuring instrument (log).
MoMu1,2,3,4	4.13.2	A depth sounder.
MoMu0	4.13.3	Two independent depth sounders.
	4.14	Spare Number
	4.15	Emergency Steering
MoMu0,1,2,3	4.15.1	An emergency tiller capable of being fitted to the rudder stock except when:
MoMu0,1,2,3		a) the principal method of steering is by means of an unbreakable metal tiller,
MoMu0,1,2,3		b) there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of which
M-M-0 1 2 2	4 15 2	shares components with the other except for the rudder stock.
MoMu0,1,2,3	4.15.2	A proven method of emergency steering with the rudder disabled.
**	4.16	Tools and Spare Parts  Tools and spare parts suitable for the duration and nature of the passage
**	4.16.1 4.16.2	Tools and spare parts, suitable for the duration and nature of the passage.  An effective means to quickly disconnect or sever the standing rigging from the boat.
		Boat's Name
**	4.17	The boat's name on miscellaneous buoyant equipment, such as lifejackets, cushions,
		lifebuoys, recovery slings, grab bags, etc.
**	4.18	Retro-Reflective Material
**		Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and lifejackets.
MoMiro	<b>4.19</b>	EPIRBs Two water and manually activated 406 MHz EDIRBs
MoMu0	4.19.1	Two water and manually activated 406 MHz <i>EPIRBs</i> .

	4 20	Lifovafta
		with the Cospas-Sarsat <i>IBRD</i> if the country does not provide a registration facility and the country has allowed direct registration in the <i>IBRD</i> .
		hexadecimal identification (15 Hex ID) of the beacon. A beacon can be registered online
MoMu0,1,2	4.19.4	All EPIRBs registered with the appropriate authority associated with the country code in the
MoMu0,1,2	4.19.3	A 406 MHz EPIRB registered after 2015 shall include an internal GPS.
MoMu1,2	4.19.2	A water and manually activated 406 MHz <i>EPIRB</i> .

#### Liferafts

#### 4.20.1 Liferaft Construction

a)	one or more inflatable liferafts with a total capacity to accommodate at least the total
	number of people on board which complies with:

- LSA Code 1997 Chapter IV or later version,
- ISO 9650-1:2005, Type 1, Group A Small Craft Inflatable,
- ISAF liferafts manufactured before 2016 until replacement is due at end of service life, or
- iv ORC liferafts manufactured before 2003 until replacement is due at end of service
- a sufficient number of liferafts so that in the event of any one liferaft being lost or rendered unserviceable, sufficient aggregate capacity remains for all crewmembers,
- liferafts shall comply with LSA code 1997 Chapter IV or later version. c)

# 4.20.2 Minimum Liferaft Equipment

Fauinment

- a SOLAS liferaft shall contain as a minimum a SOLAS A pack,
- b) an ISO 9650 liferaft shall contain as a minimum Pack 1 (greater than 24 hours pack),
- an ISO 9650 liferaft shall contain as a minimum Pack 2 (less than 24 hours pack), c)
- the minimum contents of the ISO liferaft equipment packs are listed below. Some items, as indicated below, may be carried within accompanying waterproof grab bag(s) which shall be in a readily accessible location:

Pack Pack In

# Table 5 - Minimum Required Equipment

Equipment	Pack	Pack	l TU	ın
	1 >	2 <	liferaft	liferaft
	24 h	24 h		or grab
				bag(s)
Portable buoyant bailer easily operable by hand	1	1	Х	
Sponge	2	2	Х	
Pair of buoyant paddles with handles (not mitts) tied into raft adjacent to an entrance	1	1	X	
First-Aid Kit including at least 2 tubes of sunscreen. All dressings must be capable of being effectively used in wet conditions. The first aid kit shall be clearly marked and shall be re-sealable.	1	0		Х
Whistle	1	1	Х	
Waterproof torch with 6 h duration and separate battery and bulb or complementary torch	2	1	X	
Signalling mirror	1	1	Х	
Anti-seasickness pills, per person	6	6		Х
Seasickness bag with simple effective closure system, per person	1	1		Х
Red hand flares in accordance with <i>LSA</i> Code Chapter III, 3.2	6	3	3 min	Х

MoMu1 MoMu2

MoMu0,1,2

MoMu1,2

MoMu1,2

MoMu1,2

MoMu1,2

MoMu1,2

MoMu1,2

MoMu0

MoMu0

MoMu1,2

Red parachute flares in accordance with <i>LSA</i> Code Chapter III, 3.1	2	2	1 min	Х
Thermal protective aids in accordance with <i>LSA</i> Code Chapter III, 2.5	2	0		Х
Repair outfit to enable survivors to repair leaks in any or all of the inflatable compartments. Repair systems must work when wet and be capable of being applied during violent motion.	1	1	X	
Air pump or bellows which shall be simple, robust and complete, with all necessary connections (loose parts shall be captive to the main apparatus) ready for instant use to enable air to be pumped into any or all of the inflatable compartments. The air pump or bellows shall be designed and built specifically for easy operation by hand	1	1	Х	
Drinking water per person, in containers of each not more than 500 mL	1.5 L	0	0.5 L	<b>X</b> *
Food per person	10 000 kJ	0		Х
* Drinking water in the grab bag (if any) may be replaced with a desalinator device				

## 4.20.3 Liferaft Packing and Stowage

- oMu0,1,2 a) Each liferaft shall be packed either in:
  - i a rigid container securely stowed on the working deck, in the cockpit or in an open space, or
  - ii a rigid container or valise securely stowed in a dedicated weather tight locker containing liferaft and abandon ship equipment only which is readily accessible and opens onto the cockpit or working deck, or transom.
  - b) On a *monohull* with *moveable ballast* or a *multihull*, the liferaft shall be readily deployable whether or not the boat is inverted.
  - c) The end of each liferaft painter should be *securely fastened* to the boat.
  - d) Each raft shall be capable of being moved to the *lifelines* or launched within 15 seconds
  - e) In a boat with <u>series date</u> before June 2001, a liferaft may be packed in a valise not exceeding 40 kg securely stowed below deck adjacent to a companionway.

## **Liferaft Servicing**

- a) A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals:
  - i SOLAS liferafts annually,
  - ii ISO 9650 canister packed liferafts every 3 years,
  - iii ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually,
  - iv *ISAF* liferafts annually,
  - v *ORC* liferafts annually.
- b) Servicing certificates (original or a copy) on board.

## 4.21 Grab Bags

Either a watertight compartment or a grab bag, readily accessible whether or not the boat is inverted, with the following minimum contents:

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

MoMu1,2

MoMu0,1,2

. .

MoMu0,1,2 MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

Mo3Mu3,4

	Offs	hore Special Regulations 2022-2023 for all Offshore Categories				
Mo3Mu3,4		a) a watertight hand-held marine VHF transceiver with spare batteries,				
Mo3Mu3,4		b) a watertight flashlight with spare batteries and bulb,				
Mo3Mu3,4		c) 3 red hand flares,				
Mo3Mu3,4		d) a watertight strobe light with spare batteries,				
Mo3Mu3,4		e) a knife,				
**		f) if a grab bag is provided it shall have inherent flotation, at least 0.1 m <sup>2</sup> (1 ft <sup>2</sup> ) area of				
		fluorescent orange colour on the outside, shall be marked with the name of the boat,				
	4.22	and shall have a lanyard and clip.				
MoMu0,1,2	4.22.1	Crew Overboard Identification and Recovery  Locator Beacons				
MoMu0,1,2	7.22.1	a) an <i>AIS</i> personal crew overboard beacon for each <i>crewmember</i> ,				
MoMu0		b) a <i>PLB</i> equipped with 406Mhz and 121.5Mhz for each <i>crewmember</i> ,				
MoMu0		c) a personal unit in addition to the <i>PLB</i> in <i>OSR</i> 4.22.1 b) if the location device carried by				
		the boat in accordance with <i>OSR</i> 3.29.10 requires it,				
MoMu0,1,2		Where possible every <i>PLB</i> shall be registered with the appropriate authority associated with				
		the country code in the hexadecimal identification (15 Hex ID) of the beacon. A beacon can				
		be registered online with the Cospas-Sarsat IBRD if the country does not provide a				
		registration facility and the country has allowed direct registration in the IBRD.				
MoMu0,1,2	4.22.2	GPS Crew Overboard Position				
MoMu1,2		a) a GPS capable of recording a crew overboard position within 10 seconds, and				
		monitoring that position.				
MoMu0		b) a <i>GPS</i> capable of recording a crew overboard position within 10 seconds, and				
NA NA O		monitoring that position, and				
MoMu0		c) connected to an emergency button immediately accessible to a helmsman which will				
		sound an audible alarm in the accommodation and simultaneously send an				
**	4 22 2	appropriate signal to the <i>GPS</i> .				
MoMu2 4	4.22.3	Lifebuoys  a) a lifebuoy with a solf igniting light, a whictle, and a drogue within reach of the				
MoMu3,4		<ul> <li>a lifebuoy with a self-igniting light, a whistle, and a drogue within reach of the helmsman and ready for immediate use,</li> </ul>				
MoMu0,1,2		b) a lifebuoy with a self-igniting light, a whistle, and a drogue,				
MoMu0,1,2		c) in addition to <i>OSR</i> 4.22.3 b) above, within reach of the helmsman and ready for immediate use, a second lifebuoy equipped with:				
MoMu0,1,2		i a whistle, a drogue, a self-igniting light, and				
MoMu0,1,2		ii a pole and flag. The pole shall be either permanently extended or be capable of				
		being fully automatically extended,				
MoMu0		iii each lifebuoy shall be equipped with a sachet of fluorescein dye.				
MoMu0,1,2 **		d) at least one lifebuoy shall depend entirely on permanent buoyancy (e.g. foam),				
<b>*</b>		e) each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions.				
**	4.22.4					
**	7.22.7	A heaving line, no less than 6 mm (1/4") diameter, 15–25 m (50–75') long, readily				
		accessible to cockpit.				
MoMu0,1,2,3	4.22.5	Recovery Sling				
MoMu0,1,2,3		A recovery sling which includes a:				
MoMu0,1,2,3		a) buoyant line of length no less than the shorter of 4 times $L_H$ or 36m (120'),				
MoMu0,1,2,3		b) buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy,				
MoMu0,1,2,3		c) minimum strength capable to hoist a <i>crewmember</i> aboard.				
ala.	4.23					
**		Pyrotechnic signals shall be provided conforming to LSA Code Chapter III Visual Signals				
		and not older than the stamped expiry date (if any) or if no expiry date stamped, not older				

than 4 years:

a) 2 orange smoke LSA III 3.3,

MoMu0,1,2,3 b) 4 red hand flares *LSA* III 3.2.

4.24 Spare Number

# 4.25 Cockpit Knife

A strong, sharp knife, in a securely restrained sheath shall be readily accessible from the deck or a cockpit.

# 4.26 Storm & Heavy Weather Sail Inventory

the following storm & heavy weather sails (or rotating wing mast if suitable) as specified in *OSR* 4.27:

MoMu0 4.26.1 a storm trysail,

\*\*

\*\*

MoMu1,2 4.26.2 either a trysail or mainsail reefing to reduce the luff by at least 50%,

MoMu3 4.26.3 either a trysail or mainsail reefing to reduce the luff by at least 40%,

MoMu4 4.26.4 either mainsail reefing to reduce the luff by 12.5% or a heavy weather jib,

MoMu0,1,2,3 4.26.5 heavy weather jib,

MoMu0,1,2 4.26.6 storm jib.

4.27

# 4.27 Storm & Heavy Weather Sail Specifications

Figure 3 - Storm Sails

# 4.27.1 **Design**

a) the material of the body of a storm sail purchased after 2013 shall have a highly visible colour (e.g. dayglo pink, orange or yellow),

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\*

	Offs	hore Special Regulations 2022-2023 for all Offshore Categories
**		b) aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm
		jib, but <i>HMPE</i> and similar materials are permitted,
**		c) sheeting positions on deck for each storm and heavy-weather sail,
**		d) sheeting positions for the trysail independent of the boom, and
**		e) the maximum area of storm and heavy weather sails shall be lesser of the areas
		below or as specified by the boat designer or sailmaker.
	4.27.2	A Trysail with:
MoMu0,1,2		a) area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E),
MoMu0,1,2		b) for sails made after 2011: The storm trysail area calculated as $(0.5 \times 1)$ leech length x shortest distance between tack point and leech),
MoMu0,1,2		c) no headboard,
MoMu0,1,2		d) no battens,
MoMu0,1,2		e) sail number and letters on both sides, as large as practicable, and
MoMu0,1,2		<ul> <li>f) in the case of a boat with an in-mast furling mainsail, the storm trysail shall be capable of being set while the mainsail is furled.</li> </ul>
	4.27.3	A Heavy Weather Jib (or Heavy Weather Sail in a Boat with no Forestay) with:
**		a) area of 13.5% height of the <u>foretriangle</u> squared, and
**		b) readily available method, independent of a luff groove, to attach to the stay.
**		For sails made after 2011: Storm and heavy weather jib areas calculated as: (0.255 x luff
		length x (luff perpendicular $+ 2 x$ half width)).
	4.27.4	A Storm Jib with:
MoMu0,1,2		a) area of 5% (height of the <u>foretriangle</u> ) squared,
MoMu0,1,2		b) maximum luff length 65% of height of the <u>foretriangle</u> , and
MoMu0,1,2		c) permanently attached method, independent of a luff groove, to attach to the stay.
MoMu0,1,2		For sails made after 2011: Storm and heavy weather jib areas calculated as: (0.255 x luff
		length $x$ (luff perpendicular + 2 $x$ half width)).
	4.28	Drogue, Sea Anchor
MoMu0		A drogue for deployment over the stern, or a sea anchor or parachute anchor for
M - 0		deployment at the bow, complete with all necessary gear (see Appendix K).
Mo0	4.29	Deck Bags
Mo0	4.29	If permitted by the Notice of Race, Sailing Instructions or Class Rules, bags for storing sails
		on deck shall be:
Mo0		a) so constructed to ensure rapid draining of water, and
Mo0		b) securely fastened in such a way that the integrity of deck fittings e.g. stanchions and
Mo0,1,2	4.55	lifelines, is not compromised.
	4.30	Emergency Pumps,
Mo0,1,2		either fixed or portable pump to remove ingress water from any compartment. This pump shall:
Mo0 1 2		a) have a minimum rated capacity of 200 l/min (3200 US gph),
Mo0,1,2 Mo0,1,2		b) be operated by battery, main engine powered or a separate engine,
Mo0,1,2		c) if portable electric-powered, power cables to be terminated with alligator clips, and
Mo0,1,2		d) have sufficient hose to discharge directly overboard or into the cockpit.
Mo0,1,2		A combination of <i>permanently installed</i> and portable pumps may be combined to meet the
1100/11/2		above requirement.
		SECTION 5 – PERSONAL EQUIPMENT Each <i>crewmember</i> shall have:
	5.01	
**	5.01.1	<b>Lifejacket</b> A lifejacket which shall:
**	3.01.1	a) i if manufactured before 2012 comply with <i>ISO</i> 12402-3 (Level 150) or equivalent,
		a, i il manufactured before 2012 compty with 130 12702 3 (Ecvel 130) of Equivalent,

Offshore Special Regulations 2022-2023 for all Offshore Categories						
starte		including EN 396 or UL 1180 and:				
**		if inflatable have a gas inflation system				
**		<ul> <li>have crotch/thigh straps (ride up prevention system)</li> </ul>				
MoMu0,1,2		<ul> <li>have an integral safety harness in compliance with OSR 5.02</li> </ul>				
**		ii if manufactured after 2011 comply with ISO 12402-3 (Level 150) and be fitted				
		with a whistle, lifting loop, reflective material automatic/manual gas inflation				
		system:				
**		<ul><li>crotch/thigh straps (ride up prevention system)</li></ul>				
MoMu0,1,2		<ul> <li>an integral safety harness in compliance with OSR 5.02</li> </ul>				
MoMu0,1,2,3		b) have an emergency position indicating light in accordance with either <i>ISO</i> 12402-8 or				
		<i>LSA</i> code 2.2.3,				
**		c) be clearly marked with the boat's or wearer's name,				
MoMu0,1,2,3		d) have a sprayhood in accordance with ISO 12402-8,				
MoMu0		e) have a <i>PLB</i> (as with other types of <i>EPIRB</i> , should be properly registered with the				
		appropriate authority),				
**		f) if inflatable, be regularly checked for air retention.				
MoMu0,1,2,3	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if appropriate,				
		spare activation head for each type of lifejacket on board.				
MoMu0,1,2	5.01.3	A boat shall carry at least one spare lifejacket as required in OSR 5.01.1, (a spare PLB				
		described in OSR 5.01.1 e) is not required).				
**	5.01.4	The person in charge shall personally check each lifejacket at least once annually.				
	5.02	Safety Harness and Tethers				
MoMu0,1,2,3	5.02.1	A harness that complies with ISO 12401 or equivalent.				
MoMu0,1,2,3	5.02.2	A tether that shall:				
MoMu0,1,2,3		a) comply with ISO 12401 or equivalent,				
MoMu0,1,2,3		b) not exceed 2 m (6'-6") including the length of the hooks,				
MoMu0,1,2,3		c) have self-closing hooks,				
MoMu0,1,2,3		d) have overload indicator flag embedded in the stitching, and				
MoMu0,1,2,3		e) be manufactured after 2000.				
MoMu0,1,2,3	5.02.3	either:				
MoMu0,1,2,3		a) a tether not exceeding 1 m (3'-3") including the length of the hooks, or				
MoMu0,1,2,3		b) an intermediate self-closing hook on a 2 m (6'-6") tether.				
MoMu0	5.02.4	a boat shall carry spare harnesses and tethers as required in OSR 5.02 above sufficient for				
		at least 10% of the <i>crewmembers</i> (minimum one unit).				
MoMu0,1,2,3	5.02.5	A <i>tether</i> which has been overloaded shall be replaced.				
	5.03	Personal Location Lights				
MoMu0		Two packs of miniflares or two personal location lights (either <i>SOLAS</i> or strobe): one to be				
		attached to, or carried on, the person when on deck at night.				
	5.04	Foul Weather Suits				
MoMu0	5.04	A foul weather suit with hood.				
MOMUO						
	5.05	Knife				
MoMu0		A knife, to be worn on the person at all times.				
	5.06	Flashlight				
MoMu0		A buoyant watertight flashlight.				
	5.07	Survival Equipment				
MoMu0		an immersion suit (attention is drawn to <i>EN ISO</i> 15027-1 constant wear suits, and <i>EN ISO</i>				
		15027-2 abandonment suits and the <i>LSA</i> Code Chapter II, 2,3).				
	5.08	Diving Equipment				
MoMu0	5.00	The boat shall have at least two diving suits each, to cover the entire body, and including				
-ioi-ido		gloves, fins, and portable air supplies.				
		gioves, mis, and portable all supplies.				

	0113	note special regulations 2022 2025 for all offshore categories
		SECTION 6 – TRAINING
MoMu0	6.01.1	Every <i>crewmember</i> including the Person in Charge shall have undertaken training within
		the five years before the start of the race in <i>OSR</i> 6.02 Training Topics.
MoMu1,2	6.01.2	At least 30% but not fewer than two <i>crewmembers</i> , including the Person in Charge shall
,		have undertaken training within the five years before the start of the race in <i>OSR</i> 6.02
		Training Topics.
MoMu3	6.01.3	When there are only two <i>crewmembers</i> , at least one shall have undertaken training within
		the five years before the start of the race in <i>OSR</i> 6.02 Training Topics.
MoMu0,1,2	6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained at a WS
		approved Offshore Personal Survival Training course shall be accepted by an event
		Organizing Authority as evidence of compliance with <i>OSR</i> 6.01. See Appendix G – Model
		Training Course, for further details.
	6.02	Training Topics
MoMu0,1,2	6.02.1	Giving Assistance to Other Craft
MoMu0,1,2	6.02.2	Personal Safety Gear, theory and practice
MoMu0,1,2	6.02.3	Care and Maintenance of Safety Gear
MoMu0,1,2	6.02.4	Fire Precautions and Firefighting, theory and practical
MoMu0,1,2	6.02.5	Crew Overboard Prevention and Recovery
MoMu0,1,2	6.02.6	Hypothermia, Cold Shock and Drowning
MoMu0,1,2	6.02.7	Crew Health
MoMu0,1,2	6.02.8	Marine Weather
MoMu0,1,2	6.02.9	Heavy Weather
MoMu0,1,2		Storm Sails
MoMu0,1,2		Damage Control
MoMu0,1,2		Search and Rescue Organization
MoMu0,1,2		Pyrotechnics and Signalling Gear, theory and practical
MoMu0,1,2		Emergency Communications, theory and practical
MoMu0,1,2	6.02.15	Liferafts and Abandon Ship, theory and practical Spare Number
**	6.04	Routine Training On-Board
**		At least annually the crews shall practice the drills for:
**		<ul><li>a) crew-overboard recovery, and</li><li>b) abandonment of vessel.</li></ul>
		,
M M O	6.05	Medical Training
MoMu0	6.05.1	At least one <i>crewmember</i> shall have a valid <i>STCW</i> A-VI/4-2 (Proficiency in Medical Care)
MoMu0	6.05.2	certificate or equivalent.
MOMUO	0.05.2	In addition to <i>OSR</i> 6.05.1 another <i>crewmember</i> shall have a valid first aid certificate completed within the last five years meeting:
MoMu1		At least two <i>crewmembers</i> shall have a valid first aid certificate completed within the last
Moriui		five years meeting:
MoMu2		At least one <i>crewmember</i> shall have a valid first aid certificate completed within the last
1101142		five years meeting:
MoMu0,1,2		a) A certificate listed on the <i>WS</i> website <a href="https://www.sailing.org/inside-world-">https://www.sailing.org/inside-world-</a>
		sailing/activities-services/technical-offshore/technical-services/technical-and-offshore-
		safety/offshore-safety/osr-recognised-first-aid-qualifications/ of MNA recognised
		courses, or
MoMu0,1,2		b) STCW First Aid Training complying with A-VI/1-3 - Elementary First Aid or higher
		STCW level.
MoMu3,4	6.05.3	At least one <i>crewmember</i> shall be familiar with First Aid procedures, hypothermia,
		drowning, cardio-pulmonary resuscitation, and relevant communications systems.

## 6.06 Diving Training

MoMu0

At least 30% of the crew shall have received diving training to enable them to carry out basic repairs underwater and to provide assistance, if necessary, in recovery of a crew overboard.

The appendices listed below are included in the "Complete" version of the current World Sailing OSR available at <a href="https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/">https://www.sailing.org/inside-world-sailing/rules-regulations/offshore-special-regulations/</a>

## **APPENDICES TO THE OFFSHORE SPECIAL REGULATIONS**

**Appendix A – Moveable and Variable Ballast** 

Appendix B - For Inshore Racing

**Appendix C – For Inshore Dinghy Racing** 

**Appendix D – A Guide to ISO and other Standards** 

**Appendix E – World Sailing Code for the Organisation of Oceanic Races** 

**Appendix F – Standard Inspection Card** 

**Appendix G – Model Training Course** 

**Appendix H – Model First Aid Training Course** 

**Appendix J – Hypothermia** 

**Appendix K – Drogues and Sea Anchors** 

Appendix L – Model Keel and Rudder Inspection Procedure



# Offshore Special Regulations 2022-2023 for all Offshore Categories Changes to Pages Preceding and Following Sections 1-6

Whereas the primary focus of the refinement WP is sections 1-6, there will be spillover effects to the pages preceding and succeeding those sections. These are noted below.

# **Offshore Racing Environmental Code**

Last bullet – change 'yacht' to 'boat' so that OSR 1.03.3 can be deleted.

#### **Contents**

Remove the reference to the Alphabetical Index (see below).

Between the Contents section and the Appendices section, list tables and figures:

1.03.1
3.04.2 a)
3.04.2 c)
3.14.3
4.20.2
3.06.2
4.27.1
3.14.1 g)

## **Alphabetical Index**

Remove since it's not being maintained.

## Appendix A

## Either:

- Replace 2 instances of Age Date with <u>Series Date</u>,
- Keep 2 instances of Age Date and retain the definition in table 1 (but use ORC wording), or
- Bring the Aged Date definition into the appendix since it's the only place where its used (but use ORC wording).

Note: the ORC wording is "The month and year of the first launching when the boat was completed and equipped for sailing."