Extract for Race Category 3 Monohulls with Life Raft JANUARY 2020 - DECEMBER 2021

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Because this is an extract not all paragraph numbers will be present

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Official interpretations shall take precedence over these Special Regulations and will be indexed, numbered, dated and displayed on the World Sailing web site www.sailing.org/specialregs

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 significant changes in 2020

1.01

Guidance notes and recommendations have been removed from the Regulations and are available on www.sailing.org/documents/offshorespecialregs/index.php

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

Purpose and Use

Administration

The Offshore Special Regulation are administered by the World Sailing Special Regulation Sub-Committee whose terms of reference are as follows: (www.sailing.org/regulations)

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 E-Mail: technical@sailing.org

SECTION 1 - FUNDAMENTAL AND DEFINITIONS

**	1.02.1	Under RRS 4 the responsibility for a boat's decision to participate in a
	1.02	Responsibility of Person in Charge
		course. This is not included in more onerous OSR categories.
		includes that adequate shelter and or effective rescue is available all along the
		Particular attention is drawn to the description of OSRs for inshore racing which
**	1.01.3	Use of the OSR does not guarantee total safety of the boat and her crew.
		Sailing (RRS), Equipment Rules of Sailing(ERS), class rules and Rating Systems.
		governmental authority, Classification Society certification, the Racing Rules of
**	1.01.2	The OSR do not replace, but rather supplement, the requirements of
		multihull (excluding proa) boats racing offshore.
		minimum equipment, accommodation and training standards for monohull and
**	1.01.1	The purpose of the Offshore Special Regulations (OSR) is to establish uniform
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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 bad 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 2.02

1.03 Definitions, Abbreviations, Word Usage

1.03.1 Definitions of Terms used in this document

Abbreviation Description # Pound force (lbf)

ABS American Bureau of Shipping Age Date Month/year of first launch

AIS Automatic Identification Systems
CEN Comité Européen de Normalisation

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 A cockpit where the combined area open aft to the sea is less than

Cockpit 50% maximum cockpit depth x maximum cockpit width

CPR Cardio-Pulmonary Resuscitation

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

FA Station The transverse station at which the upper corner of the transom meets

the sheerline.

First Launch Month & year of first launch of the individual boat

Foul-Weather Clothing designed to keep the wearer dry and may consist of one piece

Suit or several

GMDSS Global Maritime Distress & Safety System

GNSS Global Navigation Satellite System

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)

IMO International Maritime Organisation

IMSO The International Mobile Satellite Organisation, the independent,

intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these to

IMO

INMARSAT Inmarsat Global Limited is the private company that provides GMDSS

satellite distress and safety communications, plus general

communications via voice, fax and data

ISAF International Sailing Federation- (now World Sailing)

ISO International Standard Organization or International Organization for

Standardization.

ITU International Telecommunications Union

Jackstay A securely fastened webbing or rope which permits a crewmember to

move from one part of the boat to another without having to unclip a

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safety harness tether.

LH 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

Monohull A boat with one hull

Moveable Material carried for the sole purpose of increasing weight and/or Ballast influencing stability and/or trim and which may be moved transversely

but not varied in weight while a boat is racing

Multihull A boat with more than one hull

Open Cockpit A cockpit that is not a Contained Cockpit.

ORC Offshore Racing Congress (formerly Offshore Racing Council)

OSR Offshore Special Regulation(s)

Permanently The item is effectively built-in by e.g. bolting, welding, glassing etc.

Installed and may not be removed for or during racing.

PLB Personal Locator Beacon

Primary Month & Year of first launch of the first boat of the production series or

Launch first launch of a non-series boat

Proa Asymmetric Catamaran

Rode Rope, chain, or a combination of both, which is used to connect an

anchor to the boat.

RRS ISAF - Racing Rules of Sailing

Safety Line A tether used to connect a safety harness to a strong point

SAR Search and Rescue

SART Search and Rescue Transponder

Securely Held strongly in place by a method (e.g. rope lashings, wing-nuts) Fastened 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

SSS The Safety and Stability Screening numeral

Static Ballast Material carried for the sole purpose of increasing weight and/or to

influencing stability and/or trim and which is not moved or varied in

weight while a boat is racing

Static Safety A safety line (usually shorter than a safety line carried with a harness)

Line kept clipped on at a work-station STIX ISO 12217-2 Stability Index

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.

Waterline The water surface when the boat is floating in measurement trim

World Sailing formerly the International Sailing Federation or ISAF

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

permissive.

1.03.3 The word "yacht" shall be taken as fully interchangeable with the word "boat".

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

2.01 Categories of Events

2.01 Organizing Authorities shall select from one of the following categories and may modify the OSR to suit local conditions

2.01.4 Category 3

MoMu3 Races across open water, most of which is relatively protected or close to shorelines.

2.02 Incident Reporting

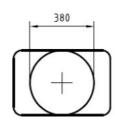
The Organizing Authority of a race will establish whether any incidents occurred, which if reported would be likely to be relevant to evolving the Offshore Special Regulations, the plan review process, or in increasing safety. The Organizing Authority will follow any guidelines issued by World Sailing concerning incident reporting.

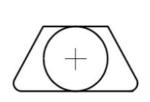
2.03 Inspection

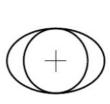
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**	2.03	A boat may be inspected at any time. If she fails to comply with the OSR her entry may be rejected or she will be subject to protest
	2.04	General Requirements
**	2.04.1	All equipment required by OSR shall:
**	a)	function properly
**	b)	be regularly checked, cleaned and serviced
**	c)	if it has an expiry date, it will not have exceeded its expiry date whilst racing
**	ď)	when not in use be stowed in conditions in which deterioration is minimised
**	e)	be readily accessible
**	f)	be of a type, size and capacity suitable and adequate for the intended use and size of the boat.
**	2.04.2	Heavy items shall be permanently installed or securely fastened
	STRUCTU	RAL FEATURES, STABILITY, FIXED EQUIPMENT
**		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
	2.02	the mast and the boat while racing
**	3.02 3.02.1	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 hatch with the opening
		entirely above the Waterline
Mo0,1,2,3	3.02.2	Effective 1 January 2021: Structural Inspection - Consult the owner's manual for
1.100/11/2/0	0.02.2	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	3.02.3	Effective 1 January 2021: Evidence of a structural inspection in accordance with
		3.02.2 within 24 months before the start of the race or after a grounding
M-0.1.2.2	2.02.4	whichever is the later
Mo0,1,2,3	3.02.4	Effective 1 January 2021: Inspection after Grounding – an appropriately qualified
		person shall conduct an internal and external inspection after each unintentional grounding
	3.04	Stability - Monohulls
Mo3	3.04.1	Able to demonstrate compliance with ISO 12217-2* design category B or higher,
1103	510 111	either by EC Recreational Craft Directive certification having obtained the CE
		mark or the designer's declaration
		* The latest effective version of ISO 12217-2 should be used unless the boat was
		already designed to a previous version
Mo0,1,2,3	3.04.2	Where compliance in accordance with 3.04.1 cannot be demonstrated, able to
		demonstrate either:
Mo3	a)	i a STIX value not less than 23; and
Mo3		ii AVS not less than $130 - 0.005*m$, but always $>= 95°$, (where "m" is the mass
M-2		of the boat in the minimum operating condition as defined by ISO 12217-2); and
Mo3		iii a minimum righting energy not less than m*AGZ>57000 (where AGZ is the
		positive area under the righting lever curve in the minimum operating condition, expressed in kg metre degrees from upright to AVS); or
Extract Mo3	b)	Stability Index in ORC Rating System of not less than 103; or
Extract Mo3	c)	IRC SSS Base value of not less than 15
Extract 1105	3.06	Exits - Monohulls
Mo0,1,2,3,4	3.06.1	At least two exits if 8.5 m (28') LH and greater and with a Primary Launch after
-, ,-,-, .	-	1994. One exit shall be located forward of the foremost mast except where
		structural features prevent its installation
Mo0,1,2,3,4	3.06.2	The following minimum clear hatch openings if First Launch after 2013:
Mo0,1,2,3,4	a)	a circular hatch with diameter 450 mm (18"); or
Mo0,1,2,3,4	b)	any other shape with minimum dimension of 380 mm (15") and minimum area of







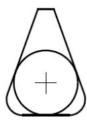


		Figure 1 - Measurements of Minimum Clear Opening
	3.08	Hatches & Companionways
**	3.08.1	Hatch covers forward of the maximum beam station shall not open toward the
		interior of the boat, except hatches in the side of a coachroof or ports having an
		area of less than 0.071 m ² (110 in ²)
**	3.08.2	A hatch, including a hatch over a locker shall be:
**	a)	permanently attached and capable of being firmly shut immediately and
		remaining firmly shut in a 180° capsize
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 hatches on each side of centerline that do
		not conform to the requirement in b), provided that the opening of each is less
	2.00.2	than 0.071 ² m (110 in ²)
	3.08.3	Hatches not conforming with 3.08.1 and 3.08.2 shall be clearly labelled and used in assertions with the following instruction "NOT TO BE OPENED AT SEA"
**	3.08.4	in accordance with the following instruction "NOT TO BE OPENED AT SEA" Companionway hatches:
**	a)	fitted with a strong securing arrangement which shall be operable from the
	u)	exterior and interior even when the boat is inverted
**	b)	blocking devices:
**	i	capable of being retained in position with the hatch open or shut
**	ii	secured to the boat (e.g. by lanyard) for the duration of the race
**	iii	permit exit in the event of inversion
Mo0,1,2,3,4	3.08.5	if a monohull with Open Cockpit(s):
Mo0,1,2,3,4	3.08.5	a companionway sill that does not extend below the local sheerline; or
	a)	
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 monohull with Contained Cockpit(s) where the companionway extends below the local sheerline, panels capable of blocking the companionway up to the level
		of the local sheerline whilst giving access to the interior.
	3.09	Cockpits
**	3.09.1	Cockpits that self-drain quickly by gravity at all angles of heel and are
		permanently incorporated as an integral part of the boat
**	3.09.2	A cockpit sole at least 2% LWL above the waterline (or in IMS boats with First
		Launch before 2003, at least 2% L above the waterline)
**	3.09.3	A bow, lateral, central or stern well is a cockpit for the purposes of OSR 3.09
**	3.09.4	Cockpit Volume
**		The maximum combined volume below lowest coamings of all contained cockpits
Everset	-)	shall be:
Extract MoMu2,3,4	a)	primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit)
**	b)	primary launch after March 1992 as above for the appropriate category except
	U)	that "lowest coamings" shall not include any aft of the FA station and no
		extension of a cockpit aft of the working deck shall be included in calculation of
		cockpit volume
	3.09.5	Cockpit Drains
**		Cockpit drain cross section area of unobstructed openings (after allowance for
		screens if fitted) shall be at least that of:
**	a)	2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH
**	b)	4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater
**	3.10	Sea Cocks or Valves
ጥጥ	3.10	Permanently installed sea cocks or valves on all through-hull openings below the

waterline 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 3.11 substantially below deck 3.12 **Mast Step** ** The heel of a keel stepped mast securely fastened to the mast step or adjoining 3.12 structure 3.14 **Pulpits, Stanchions, Lifelines** The perimeter of the deck surrounded by system of lifelines and pulpits as ** 3.14.1 follows: ** a) Continuous lifelines 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 lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving shall not modify tension in the lifeline. ** b) Minimum heights of lifelines and pulpit rails above the working deck and vertical openings: ** i upper: 600 mm (24") ** ii intermediate: 230 mm (9") vertical opening: no greater than 380 mm (15") except that on a boat with a ** iii Primary Launch before 1993 where it shall be no greater than 560 mm (22") MoMu3,4 a boat less than 8.5 m (28') LH may use a single lifeline system with a height iν between 450 mm (18") and 560 mm (22") Lifelines permanently supported at intervals of not more than 2.2 m (7'-2 1/2") c) and shall not pass outboard of supporting stanchions ** d) Pulpit and stanchion bases permanently installed with pulpits and stanchions mechanically retained in their bases The outside of pulpit and stanchion base tubes no further inboard from the edge e) 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: 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") stanchions may be angled to not more than 10° from vertical at any point above ** ii 50 mm (2") from the deck A bow pulpit may be open provided the opening between the pulpit and any part ** g) of the boat does not exceed 360 mm (14")

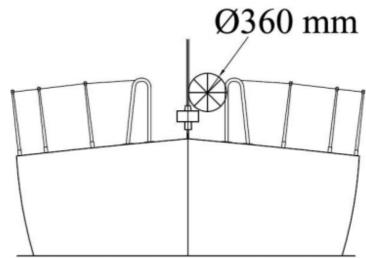


Figure 2 - Diagram Showing Pulpit Opening

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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 ii 2 14 2	50 mm (2") for an upper or single lifeline 120 mm (4 3/4") for an intermediate lifeline	
	3.14.3 3.14.4	Spare number Spare number	
	3,14.5	Spare number	
	3.14.6	•	
Mo0,1,2,3	3.14.6 a)	Lifelines of stranded stainless steel wire	
**	3.14.6 b)	The minimum diameter is specified in table 8 below	
**	3.14.6	Stainless steel lifelines shall be uncoated and used without close-fitting	
	c)	however, temporary sleeving may be fitted provided it is regularly remoinspection.	ved for
**	3.14.6 d)	A lanyard of synthetic rope may be used to secure lifelines provided the closes does not exceed 100 mm (4"). This lanyard shall be replaced annual context.	
**	3.14.6	All components of the lifeline enclosure system shall have a breaking st	•
	e)	less than the lifeline	داد: ساما ما
	LH	Wire Min. lifeline HMPE rope (Single braid) HMPE Core (Braid diameter min. lifeline diameter min. lifeline diameter	•
	under 8.5m (2	3mm (1/8") 4mm (5/32") 4mm (5/32")	
	8.5m - 13m		
	over 13		
	(42' 8") 3.17	Toe Rail or Foot - Stop	
Mo0,1,2,3	3.17.1	Permanently installed toe rail of minimum height 25 mm (1"), located a	s close as
	0.1.	practicable to the stanchion bases, around the foredeck from abreast th	
Mo0,1,2,3	3.17.2	An additional lifeline of between 25-50 mm (1-2") high is permitted in li toe rail on a boat with Primary Launch before 1984.	eu of a
	3.18	Toilet	
MoMu3,4	3.18.2 3.19	Permanently installed toilet or fitted bucket Bunks	
MoMu1,2,3,4	3.19.2	Permanently installed bunks	
	3.20	Cooking Facilities	
MoMu0,1,2,3	3.20	Permanently installed cooking stove, capable of being operated safely a with fuel shutoff control	t sea,
	3.21	Drinking Water Tanks & Drinking Water	
MaMu2 2	3.21.1	Drinking Water Tanks	
MoMu2,3	3.21.1 a)	Permanently installed delivery pump and water tank(s)	
	3.21.3	Emergency Drinking Water	
MoMu1,2,3	3.21.3	At least 9 I (2.4 US Gal) of drinking water for emergency use in a dedicate	ated and
	a) 3.22	sealed container or container(s) Hand Holds	
**	3.22	Adequate hand holds fitted below deck	
	3.23	Bilge Pumps and Buckets	
**	3.23.1	two strong buckets, each with a lanyard and of at least 9 I (2.4 US Gal)	capacity
Mo3Mu0,1,2	a) 3.23.1 b)	one permanently installed manual bilge pump	
**	3.23.2	All required permanently installed bilge pumps shall be operable with al seats, hatches and companionways shut and with permanently installed time to accompanion of a fifting to accompanion.	•
**	3.23.3	discharge pipe(s) of sufficient capacity Bilge pumps shall not be connected to cockpit drains and shall not discharge Closed Cockpit	narge into
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing	, out
**	3.23.5	debris All removable bilge pump handles retained by a lanyard	

		3.24	Compass
	MoMu0,1,2,3 MoMu0,1,2,3,4	3.24 a) 3.24 b)	Marine magnetic compass capable of being used as a steering compass: Permanently installed marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card
	MoMu0,1,2,3	3.24 c) 3.25	a second compass which may be hand-held and/or electronic Halyards.
	** MoMu0,1,2,3	3.25 a) 3.25 b)	A minimum of two halyards, each capable of hoisting a sail, on each mast No halyard shall be locked, lashed or otherwise secured to the mast in a way that
			requires a person to go aloft in order to lower a sail in a controlled manner, except for a headsail in use with a furling device.
	•	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 3.28	spare bulbs (not required for LED) Engines, Generators, Fuel
		3.28.1	Propulsion Engines
	**	3.28.1	engines and associated systems installed in accordance with their manufacturers'
	MoMu0,1,2,3	a) 3.28.1	guidelines and suitable for the size and intended use of the boat an engine which provides a minimum speed in knots of (1.8 x \sqrt{LWL} in metres) or (\sqrt{LWL} in feet)
I	Mo3	b) 3.28.1	either an inboard or outboard engine, with associated power supply systems, all
	. 100	c)	securely fastened
	**	3.28.1 d)	an inboard combustion engine shall have a permanently installed exhaust, cooling system, fuel supply, fuel tank(s) and shall have adequate heavy weather protection
	**	3.28.1 e)	an inboard electrical engine, when fitted, shall be provided with a permanently installed power supply, adequate heavy weather protection and have an engine
		3.28.2	control system. Generator
	**	3.28.2	If an optional generator separate from the propulsion engine is carried, it shall be
		3.28.3	installed in accordance with the manufacturer's guidelines Liquid Fuel Systems
	MoMu0,1,2,3	3.28.3	All fuel tanks for storage of liquid fuels shall be rigid (but may have permanently installed flexible linings) and shall have a shutoff valve
	MoMu0,1,2,3	a) 3.28.3	At the start a boat with a combustion engine shall carry sufficient fuel to meet
		b)	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
	MoMu0,1,2,3	3.28.4	a dedicated engine/generator starting battery when an electric starter is the only
	**	a) 3.28.4	method for starting the engine and/or separate generator batteries installed after 2011 shall be of the sealed type from which liquid
	**	b) 3.28.4	electrolyte cannot escape At the start a boat with an electric engine shall carry sufficient capacity to meet
		c)	electrical requirements for the duration of the race and to motor at the above
		3.29	minimum speed for at least 5 hours Communications Equipment, GPS, Radar, AIS
	MoMu0,1,2,3	3.29.1	a marine radio transceiver with an emergency antenna when the regular antenna depends upon the mast
	MoMu0,1,2,3	3.29.2	if the marine radio transceiver is a VHF:
	MoMu0,1,2,3	3.29.2 a)	a minimum rated output power of 25 W
	MoMu3	3.29.2 b)	a masthead antenna and co-axial feeder cable with not more than 40% power loss
		-,	

MoMu1,2,3	3.29.2 c)	be DSC capable if installed after 2015
MoMu1,2,3	3.29.2 d)	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
MoMu1,2,3,4	3.29.5	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 OSR 4.21)
**	3.29.6	a second radio receiver, which may be the handheld VHF in 3.29.5 above, capable of receiving weather bulletins
MoMu3	3.29.8	a GPS
Mo0,1,2,3	3.29.13	an AIS Transponder which either:
Mu1,2,3		
MoMu0,1,2,3	3.29.13 a)	shares the masthead VHF antenna via a low loss AIS antenna splitter; or
MoMu0,1,2,3	3.29.13 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 Waterline and co-axial feeder cable with not more than 40% power loss
SECTION 4 -	PORTABL	E 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 RRS Appendix G for a mainsail, to be displayed when none of the numbered sails are set
	4.02	Convok and Doggue Visibility

SECTION 4 - I	DODTARI	LE EQUIPMENT
SECTION 4 - 1	PURTABL	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	4.01.1	An alternative means of displaying identification as required under RRS Appendix
141014100,1,2,3	4.01.2	G for a mainsail, to be displayed when none of the numbered sails are set
	4.02	Search and Rescue Visibility
	4.03	Soft Wood Plugs
**	4.03	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	4.04.2	be independent on each side of the deck
	a)	
MoMu0,1,2,3	4.04.2	enable a crewmember to move readily between the working areas on deck and
	b)	the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	4.04.2	have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved
	c)	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	4.04.3	be adjacent to stations such as the helm, sheet winches and masts, where
M M 0 1 2 2	a)	crewmembers work
MoMu0,1,2,3	4.04.3	enable a crewmember to clip on before coming on deck and unclip after going
MaMun 1 2 2	b) 4.04.3	below
MoMu0,1,2,3	c)	enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device with an open flame
MoMu1,2,3	4.05.2	2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts
, ,		of the boat
	4.06	Anchors
MoMu1,2,3	4.06.2	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 m (28') LH there shall be 1 anchor meeting
		the same criteria.
* *	4.07	Flashlights and Searchlights
**	4.07.1	Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3	4.07.1	a searchlight, suitable for searching for a person overboard at night and for
	a)	collision avoidance

MoMu0,1,2,3	4.07.1 b)	a flashlight in addition to 4.07 a)
	4.08	First Aid Manual and First Aid Kit
**	4.08	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
		crew
	4.09	Foghorn
**	4.09	A foghorn
	4.10	Radar Reflector
**	4.10.1	A passive radar reflector with:
**	4.10.1	octahedral circular plates of minimum diameter 30 cm (12"), or
		octanedral circular plates of minimum diameter 50 cm (12), of
**	a) 4.10.1	actahadral rectangular plates of minimum diagonal dimension 40 cm (16") or
		octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	b) 4.10.1	a man astabadual vaflastav with a dagunaantad Dagt Maan Cayaya minimuus Daday
4.4.	_	a non-octahedral reflector with a documented Root Mean Square minimum Radar
	c)	Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and ±20° of
		heel
A- A-	4.11	Navigation Equipment
**	4.11	Navigational charts (not solely electronic), light list and chart plotting equipment
dede	4.12	Safety Equipment Location Chart
**	4.12	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)
MoMu,1,2,3,4	4.13.2	A depth sounder
	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	4.15.1	the principal method of steering is by means of an unbreakable metal tiller
	a)	
MoMu0,1,2,3	4.15.1	there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of
	b)	which 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
**	4.16.1	Tools and spare parts, suitable for the duration and nature of the passage
**	4.16.2	An effective means to quickly disconnect or sever the standing rigging from the
		boat
	4.17	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
**	4.18	Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and
		lifejackets
	4.19	EPIRBs
	4.20	Liferafts
	4.20.1	Liferaft Construction
MoMu1,2	4.20.1	One or more inflatable liferafts with a total capacity to accommodate at least the
1101101,2	a)	total number of people on board which complies with:
MoMu1,2	4.20.1	SOLAS LSA Code 1997 Chapter IV or later version; or
1101111,2		SOLAS LSA Code 1997 Chapter IV of later version, or
MoMu1,2	a) i 4.20.1	ISO 9650-1:2005, Type 1, Group A - Small Craft - Inflatable; or
11011111,2		130 JUJU-1.2003, Type 1, Group A - Sman Craft - Inhatable, Or
MaMut 2	a) ii	ICAE liferafte manufactured before 2016 until replacement is due at and of
MoMu1,2	4.20.1	ISAF liferafts manufactured before 2016 until replacement is due at end of
Managara 2	a) iii	service life; or
MoMu1,2	4.20.1	ORC liferafts manufactured before 2003 until replacement is due at end of
	a) iv	service life
M-M 0 1 0	4.20.2	Minimum Liferaft Equipment
MoMu0,1,2	4.20.2	A SOLAS liferaft shall contain as a minimum a SOLAS A pack;

	a)							
MuMo2	4.20.2 c)	An ISO 9650 liferaft shall contain as a minimum	n Pack 2	(less t	:han 24 h	our pack);		
MoMu1,2	 4.20.2 The minimum contents of the ISO liferaft equipment packs are listed below. No all items are necessarily packed within the liferaft. Some items are permitted to be carried within an accompanying waterproof grab bag which shall be in a readily accessible location: 							
	Equipm		Pack 1 > 24h	Pack 2 < 24h	In liferaft	In liferaft or in grab bag		
	Sponge Pair of l into raft	puoyant paddles with handles (not mitts) tied adjacent to an entrance	1 2 1	1 2 1	X X 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.			0		X		
	Whistle		1	1	Χ			
	•	oof torch with 6 h duration and separate and bulb or complementary torch	2	1	Χ			
	-	ng mirror	1	1	Χ			
	Seasick	nsickness pills, per person ness bag with simple effective closure system,	6 1	6 1		X X		
		nd flares in accordance with SOLAS LSA Code III, 3.2	6	3	3 min	Χ		
	Red par	rachute flares in accordance with SOLAS LSA napter III, 3.1	2	2	1 min	X		
	Therma	I protective aids in accordance with SOLAS LSA napter III, 2.5	2	0		Χ		
	Repair of or all of must we	outfit to enable survivors to repair leaks in any the inflatable compartments. Repair systems ork when wet and be capable of being applied violent motion.	1	1	X			
	Air pum complet shall be instant of the in bellows	p or bellows which shall be simple, robust and re, with all necessary connections (loose parts captive to the main apparatus) ready for use to enable air to be pumped into any or all inflatable compartments. The air pump or shall be designed and built specifically for eration by hand	1	X				
	Drinking	y water per person, in containers of each not an 500mL	1.5 L	0	X 0.5 L	Xa		
		er person	10 000 kJ	0		X		
		ng water in the grab bag (if any) may be						
MoMu1,2	4.20.2	d with a desalinator device Portable buoyant bailer easily operable by hand	I					
MoMu1,2	d) i 4.20.2 d)ii	2 sponges						
MoMu1,2	4.20.2 d)iii	Pair of buoyant paddles with handles (not mitts entrance	s) tied ir	nto raft	adjacent	to an		
MoMu1,2	4.20.2 d)iv	Whistle						

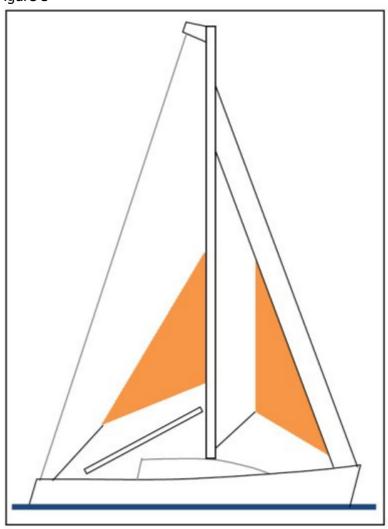
MoMu2	4.20.2 d)v	Waterproof torch with 6 h duration and
MoMu2	4.20.2 d)vi	Spare waterproof torch or spare battery and bulb
MoMu1,2	4.20.2	Signalling mirror
MoMu1,2	d)vii 4.20.2	6 anti-seasickness pills per person *
MoMu1,2	d)viii 4.20.2	Seasickness bag per person, each with a simple, effective, closure system *
MoMu2	d)ix 4.20.2	3 hand flares in accordance with SOLAS LSA Code Chapter III, 3.2.
MoMu1,2	d)x 4.20.2	2 red parachute flares in accordance with SOLAS LSA Code Chapter III, 3.1. 1
MoMu1,2	d)xi 4.20.2	may be stowed in the grab bag. Kit to repair leaks in most inflatable compartments, operable in wet conditions
MoMu1,2	d)xii 4.20.2	and during violent motion Hand operable air pump, capable of and ready for immediate use to inflate most
MoMu1,2	d)xiii	compartments. Loose parts captive to the pump. * may be packed in grab bag instead of liferaft
MoMu0,1,2	4.20.3 4.20.3	Liferaft Packing and Stowage Each liferaft shall be packed either in:-
MoMu0,1,2	a) 4.20.3	a rigid container securely stowed on the working deck, in the cockpit or in an
MoMu0,1,2	a) i 4.20.3 a) ii	open space; or:- a rigid container or valise securely stowed in a dedicated weather tight locker containing liferaft and abandon ship equipment only which is readily accessible
MoMu1,2	4.20.3 b)	and opens onto the cockpit or working deck, or transom In a boat with primary launch before June 2001, a liferaft may be packed in a valise not exceeding 40 kg securely stowed below deck adjacent to a companionway
MoMu0,1,2	4.20.3 c)	On a multihull or on a monohull with moveable ballast the liferaft shall be readily deployable whether or not the boat is inverted
MoMu0,1,2	4.20.3 d)	The end of each liferaft painter should be securely fastened to the boat
MoMu0,1,2	4.20.3 e)	Each raft shall be capable of being got to the lifelines or launched within 15 seconds
	4.20.4	Spare Number
MoMu0,1,2	4.20.5	Liferaft Servicing
MoMu0,1,2	4.20.5 a)	A liferaft shall be serviced at a manufacturer authorized service station at the following maximum intervals:
MoMu0,1,2	4.20.5 a) i	SOLAS liferafts annually
MoMu0,1,2	4.20.5 a) ii	ISO 9650 canister packed liferafts every 3 years
MoMu0,1,2	4.20.5 a) iii	ISO 9650 valise packed liferafts every 3 years except that hired liferafts shall be serviced annually
MoMu0,1,2	4.20.5 a) iv	ISAF liferafts annually
MoMu0,1,2	4.20.5	ORC liferafts annually
MoMu0,1,2	a) v 4.20.5 b)	Servicing certificates (original or a copy) on board
	4.21	Grab Bags
**	4.21 f)	If a grab bag is provided it shall have inherent flotation, at least 0.1 m ² (1 ft ²) area of fluorescent orange colour on the outside, shall be marked with the name of the boat, and shall have a lanyard and clip
	4.22	Crew Overboard Identification and Recovery
	4.22.1	Locator Beacons
	4.22.2	GPS Crew Overboard Position

MoMu3,4	4.22.3		oy with a self-igniting light, a whis an and ready for immediate use	tle and a drogue within reach of the
**	4.22.6	Each inf		c device shall be tested and serviced at arer's instructions
**	4.22.7	A heavir		liameter, 15 - 25 m (50 - 75') long,
MoMu0,1,2,3	4.22.8	•	ery sling which includes a:	
MoMu0,1,2,3	4.22.8		: line of length no less than the sh	orter of 4 times LH or 36m (120')
, , , -	a)		.	()
MoMu0,1,2,3	4.22.8	buoyand	cy section (horseshoe) with no less	s than 90 N (20#) buoyancy
	b)	•		, , , ,
MoMu0,1,2,3	4.22.9	minimur	n strength capable to hoist a crew	member aboard
	c)			
	4.23	Pyrote	chnic and Light Signals	
**	4.23	Pyrotech	nnic signals shall be provided conf	orming to SOLAS LSA Code Chapter III
		Visual S	ignals and not older than the stam	nped expiry date (if any) or if no expiry
		date sta	mped, not older than 4 years.	
	Race C	ategory	Red Hand Flares LSA III 3.2	Orange Smoke Flares LSA III 3.3
	MoMu0),1,2,3	4	2
	MoMu4	, , , }		2
	4.24	Spare N	umber	
	4.25	Cockpi	t Knife	
**	4.25	A strong	g, sharp knife, sheathed and secur	ely restrained shall be provided readily
		accessib	le from the deck or a cockpit.	•

4.26 Storm & Heavy Weather Sails

4.26.1 Design

Figure 3



4.26.1 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)

**	4.26.1	Aromatic polyamidos, carbon and cimilar fibros shall not be used in a trysail or
	4.20.1 b)	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but HMPE and similar materials are permitted
**	4.26.1	Sheeting positions on deck for each storm and heavy-weather sail
	c)	Sheeting positions on deck for each storm and heavy weather sun
**	4.26.1	Sheeting positions for the trysail independent of the boom
	d)	5 passage as a passage and a second
**	,	
	4.26.2	Sail Areas
**	4.26.2	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
MoMu0,1,2,3		A heavy-weather jib (or heavy-weather sail in a boat with no forestay)
**	a)	with:
<i>ተተ</i>	4.26.2	area of 13.5% height of the foretriangle (IG) squared
**	a) i 4.26.2	readily available means, independent of a luff groove, to attach to the stay
	a) ii	readily available means, independent of a fun groove, to attach to the stay
**	4.26.2	For sails made after 2011: Storm and heavy weather jib areas calculated as:
	c)	(0.255×1) luff length $\times (1)$ luff perpendicular + 2 $\times 1$ half width)
	4.26.3	Sail Inventory
MoMu3	4.26.3	either a storm trysail as defined in OSR 4.26.2 d), or mainsail reefing to reduce
	a) ii	the luff by at least 40% (or rotating wing mast if suitable)
	4.28	Spare Number
•	4.29	Deck Bags
	4.30	Emergency Pumps
	4.30.1	either fixed or portable pump to remove ingress water from any compartment.
	4.30.1	This pump shall:
	a) 4.30.1	have a minimum rated capacity of 200 l/min
	b)	have a minimum racea capacity of 200 l/min
	4.30.1	be operated by battery, main engine powered or a separate engine
	c)	and the second of second the second s
	4.30.1	if portable electric-powered, power cables to be terminated with alligator clips
	d)	
		have sufficient hose to discharge directly overboard or into the cockpit.
	e)	A conditional to the first of the condition of the condition of the conditional to
	4.30.1	A combination of permanently installed and portable pumps may be combined to
	f)	meet the above requirement. SECTION 5 - PERSONAL EQUIPMENT
**		Each crew member shall have:
	5.01	Lifejacket
**	5.01.1	A lifejacket which shall:
**	5.01.1	if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or
	a)i)	equivalent, including EN 396 or UL 1180 and:
**	5.01.1	if inflatable have a gas inflation system
**	a)i)	have analything strong (vide or socialist and the (DUDG))
**	5.01.1	have crotch/thigh straps (ride up prevention system (RUPS))
**	a)i) 5.01.1	if manufactured after 2011 comply with ISO 12402-3 (Level 150) and be fitted
	a) ii	with a whistle, lifting loop, reflective material automatic/manual gas inflation
	a) II	system
**	5.01.1	crotch/thigh straps (ride up prevention system (RUPS))
	a) ii	, 5 1 (11 7)
MoMu0,1,2,3	5.01.1	have an emergency position indicating light in accordance with either ISO 12402-
	b)	8 or SOLAS LSA code 2.2.3
**	5.01.1	be clearly marked with the boat's or wearer's name
M-M-0400	c)	have a second to a second second 21, 700, 40,400, 0
MoMu0,1,2,3	5.01.1	have a sprayhood in accordance with ISO 12402-8
**	d) 5.01.1	if inflatable regulatry checked for air retention
e a ce e a c	5.01.1	if inflatable, regulalrly checked for air retention

	_	
	f)	
MoMu0,1,2,3	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if
**	5.01.4	appropriate, spare activation head for each type of lifejacket on board.
	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	5.02.1	A tether that shall:
MoMu0,1,2,3	5.02.2	comply with ISO 12401 or equivalent
	a)	
MoMu0,1,2,3	5.02.2	not exceed 2 m (6'-6") including the length of the hooks
	b)	
MoMu0,1,2,3	5.02.2	have self-closing hooks
	c)	
MoMu0,1,2,3	5.02.2	have overload indicator flag embedded in the stitching
	d)	
MoMu0,1,2,3	5.02.2	be manufactured after 2000
MaM0 1 2 2	e)	All of the grow shall have eithorn
MoMu0,1,2,3	5.02.3	All of the crew shall have either:
MoMu0,1,2,3	a)	a tether not exceeding 1m(3'3") including the length of the hooks, or an intermediate self-closing hook on a 2 m (6'-6") tether
MoMu0,1,2,3 MoMu0,1,2,3	b) 5.02.5	A tether which has been overloaded shall be replaced
14101410,1,2,3	5.02.5 5.07	Survival Equipment
	3.07	SECTION 6 - TRAINING
MoMu3	6.01.3	When there are only two crewmembers, at least one shall have undertaken
	0.02.0	training within the five years before the start of the race in OSR 6.02 Training
		Topics
	6.02	Training Topics
	6.03	Spare Number
	6.04	Routine Training On-Board
**	6.04	At least annually the crews shall practice the drills for:
**	6.04 a)	Crew-Overboard Recovery
**	6.04 b)	Abandonment of vessel
	6.05	Medical Training
MoMu3,4	6.05.3	At least one member of the crew shall be familiar with First Aid procedures,
		hypothermia, drowning, cardio-pulmonary resuscitation and relevant
	c 0c	communications systems
	6.06	Diving Training APPENDICES TO 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 Rudder and Keel Inspection Procedure