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

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

Administration

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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

1.01 Purpose and Use

- 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) boats racing offshore.
 - 1.01.2 The OSR do not replace, but rather 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 OSRs 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 1.02.1	Under race or crew is Charge thorou approp The pe	nsibility of Person in Charge RRS 3 the responsibility for a boat's decision to participate in a r continue racing is hers alone. The safety of a boat and her s the sole and inescapable responsibility of the Person in e who shall do his best to ensure that the boat is fully found, ghly seaworthy and manned by an experienced and priately trained crew who are physically fit to face bad weather. erson in charge shall also assign a person to take over his asibilities in the event of his incapacitation.				
1.02.2	Neither nor the	the establishment of the OSR, nor their use by Organizing Authorities, inspection of a boat under the OSR in any way limits or reduces the te and unlimited responsibility of the Person in Charge.				
1.02.3	By parti competi authorit	icipating in a race conducted under the OSR, the person in charge, each itor and boat owner agrees to reasonably cooperate with the organizing cy and World Sailing in the development of an independent incident as specified in 2.02				
1.03	•	ions, Abbreviations, Word Usage				
1.03.1		ons of Terms used in this document				
Abbrevi		Description				
#	adon	Pound force (lbf)				
# ABS		American Bureau of Shipping				
	to					
Age Dat	le	Month/year of first launch				
AIS		Automatic Identification Systems				
CEN		Comité Européen de Normalisation				
Coamin	g	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				
COLREC		International Regulations for Preventing Collisions at Sea				
Contain		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 Stati	ion	The transverse station at which the upper corner of the transom				
		meets the sheerline.				
First La	unch	Month & year of first launch of the individual boat				
Foul-We		Clothing designed to keep the wearer dry and may consist of one				
Suit		piece 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				
naten		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,				
1430		intergovernmental organisation that oversees Inmarsat's				
		performance of its Public Service Obligations for the GMDSS and				
	~ ^ T	reports on these to IMO				
INMARS	5A1	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				

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	Jacksta	Ý	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
	IЦ		safety harness tether.
	LH Lifeline		Hull Length as defined by the ERS Rope or wire line rigged as guardrail / guardline around the deck
	LITEIITIE		IMO International Life-Saving Appliance Code
	LWL		(Length of) loaded waterline
	Monohu	.11	A boat with one hull
	Moveab		Material carried for the sole purpose of increasing weight and/or
	Ballast		influencing stability and/or trim and which may be moved
	Dallast		transversely but not varied in weight while a boat is racing
	Multihu	1	A boat with more than one hull
	Open C		A cockpit that is not a Contained Cockpit.
	ORC	outpic	Offshore Racing Congress (formerly Offshore Racing Council)
	OSR		Offshore Special Regulation(s)
	Perman	ently	The item is effectively built-in by e.g. bolting, welding, glassing etc.
	Installe		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
	Launch		or 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 I	line	A tether used to connect a safety harness to a strong point
	SAR		Search and Rescue
	SART		Search and Rescue Transponder
	Securel		Held strongly in place by a method (e.g. rope lashings, wing-nuts)
	Fastene	d	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 Statia B	allaat	The Safety and Stability Screening numeral
	Static B	allast	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 S	afety	A safety line (usually shorter than a safety line carried with a
	Line		harness) kept clipped on at a work-station
	STIX		ISO 12217-2 Stability Index
	Variable	e 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.
	Waterlin		The water surface when the boat is floating in measurement trim
	World S		formerly the International Sailing Federation or ISAF
**	1.03.2		rds "shall" and "must" are mandatory, and "should" and "may" are
steale		permiss	
**	1.03.3		d "yacht" shall be taken as fully interchangeable with the word "boat".
SECTION 2 - A			GENERAL REQUIREMENTS
**	2.01	-	ries of Events
	2.01	-	ing Authorities shall select from one of the following categories and
	2.01.4	Catego	dify the OSR to suit local conditions
MoMu3	2.01.4	-	cross open water, most of which is relatively protected or close to
nomus		shorelin	• • • •
	2.02		cs. It Reporting
	2.02		anizing Authority of a race will establish whether any incidents
	2.02	-	d, which if reported would be likely to be relevant to evolving the
			e Special Regulations, the plan review process, or in increasing safety.

		The Organizing Authority will follow any guidelines issued by World Sailing
	2.03	concerning incident reporting. Inspection
**	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
** ■ state	b)	be regularly checked, cleaned and serviced
** **	c)	if it has an expiry date, it will not have exceeded its expiry date whilst racing
**	d)	when not in use be stowed in conditions in which deterioration is minimised be readily accessible
**	e) f)	be of a type, size and capacity suitable and adequate for the intended use and
**	2.04.2	size of the boat.
	-	Heavy items shall be permanently installed or securely fastened JRAL FEATURES, STABILITY, FIXED EQUIPMENT
**	SINUCIC	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
	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 hatch with the opening
M-0 1 2 2	2 0 2 2	entirely above the Waterline
Mo0,1,2,3	3.02.2	Effective 1 January 2022: 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	3.02.3	Effective 1 January 2022: Evidence of a structural inspection in accordance
		with 3.02.2 within 24 months before the start of the race or after a grounding
Ma0 1 2 2	3.02.4	whichever is the later
Mo0,1,2,3	5.02.4	Effective 1 January 2022: 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, 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
	2.04.2	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	aj	ii AVS not less than 130 - 0.005 *m, but always >= 95°, (where "m" is the
1105		mass 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) 2 06	IRC SSS Base value of not less than 15
	3.06	Exits - Monohulls

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

3.06.1

b)

- 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
- 3.06.2 The following minimum clear hatch openings if First Launch after 2013: a)
 - a circular hatch with diameter 450 mm (18"); or

any other shape with minimum dimension of 380 mm (15") and minimum area of 0.18 m² (1.9 ft²) (see figure 1)

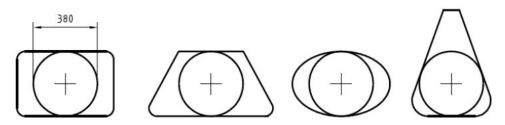
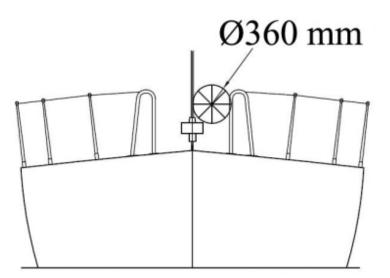


		Figure 1 - Measurements of Minimum Clear Opening
steale	3.08	Hatches & Companionways
**	3.08.1	Hatch covers forward of the maximum beam station shall not open toward the
		interior of the boat, except hatches in the side of a coachroof or ports having $a_1 a_2 a_3 a_4 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5 a_5$
**	2 00 2	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: permanently attached and capable of being firmly shut immediately and
	a)	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 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 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 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)	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 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 shall be:
Extract	a)	primary launch before April 1992: 9% (LWL x maximum beam x freeboard
MoMu2,3,4	-	abreast the cockpit)
**	b)	primary launch after March 1992 as above for the appropriate category except 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	Cocknit Drains
**	2.09.2	Cockpit Drains Cockpit drain cross section area of unobstructed openings (after allowance for
		screens if fitted) shall be at least that of:
**	a)	$2 \times 25 \text{ mm} (1'')$ diameter or equivalent for a boat less than 8.5 m (28') LH
**	b)	$4 \times 20 \text{ mm} (3/4'')$ diameter or equivalent for a boat 8.5 m (28') LH or greater
	3.10	Sea Cocks or Valves
**	3.10	Permanently installed sea cocks or valves on all through-hull openings below
	0.20	the waterline except for integral deck scuppers and instrument through-hulls
	3.11	Sheet Winches
**	3.11	Sheet winches mounted in such a way that an operator is not required to be
		substantially below deck
	3.12	Mast Step
**	3.12	The heel of a keel stepped mast securely fastened to the mast step or
		adjoining structure
	3.14	Pulpits, Stanchions, Lifelines
**	3.14.1	The perimeter of the deck surrounded by system of lifelines and pulpits as
		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.
. de ale		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")
	iii	vertical opening: no greater than 380 mm (15") except that on a boat with a
MoMu3,4	iv	Primary Launch before 1993 where it shall be no greater than 560 mm (22") a boat less than 8.5 m (28') LH may use a single lifeline system with a height
Momus,	IV	between 450 mm (18") and 560 mm (22")
**	c)	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
	u)	mechanically retained in their bases
**	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:
**	í	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")
**	ii	stanchions may be angled to not more than 10° from vertical at any point
		above 50 mm (2") from the deck
**	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")



		Figu	uro 2 - Diagram Sh	nowing Pulpit Opening	
**	h)	-	-	e at or pass through adequate	ately braced stanchions set
	,		le and overlapping		
**	i)				to a lifeline at the mid-point
				etween supports that are aft	of the mast, the deflection
			I not exceed:		
**	i 			per or single lifeline	
**	 2 1 4 2		· · ·	n intermediate lifeline	
	3.14.3 3.14.4		re number re number		
	3,14.5	•	re number		
	•		line Specificatio	ns	
Mo0,1,2,3	3.14.6		ines of stranded st		
, , ,	a)				
**	3.14.6 b)	The	minimum diamete	er is specified in table 8 belo	W
**	3.14.6	Stai	nless steel lifelines	shall be uncoated and used	l without close-fitting
	c)	slee	ving, however, ter	nporary sleeving may be fitt	ed provided it is regularly
			oved for inspection		
**	3.14.6		, ,		e lifelines provided the gap it
**	d)			d 100 mm (4"). This lanyard	· · · ·
ጥጥ	3.14.6		components of the ess than the lifeling		all have a breaking strength
	e) LH		Wire Min.	HMPE rope (Single braid)	HMPE Core (Braid on
	L11			min. lifeline diameter	braid) min. lifeline
					diameter
	under		3mm (1/8")	4mm (5/32")	4mm (5/32")
	8.5m (2	28')			
	8.5m - 13m		4mm (5/32")	5mm (3/16")	5mm (3/16")
	over 13	ßm	5mm (3/16")	5mm (3/16")	5mm (3/16")
	(42' 8")				
	3.17		Rail or Foot - S		
Mo0,1,2,3	3.17.1				25 mm (1"), located as close
		as p mas		tanchion bases, around the	TOPEDECK FROM abreast the
Mo0,1,2,3	3.17.2			f between 25-50 mm (1-2")	high is permitted in lieu of a
1100,1,2,5	5.17.2			Primary Launch before 198	
	3.18	Toil		,	
MoMu3,4	3.18.2	Perr	manently installed	toilet or fitted bucket	
	3.19	Bun			
MoMu1,2,3,4	3.19.2		nanently installed	bunks	
	3.20	Coo	king Facilities		

MoMu0,1,2,3	3.20	Permanently installed cooking stove, capable of being operated safely at sea, with fuel shutoff control
	3.21 3.21.1	Drinking Water Tanks & Drinking Water Drinking Water Tanks
MoMu2,3	3.21.1	Permanently installed delivery pump and water tank(s)
	a)	
	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 dedicated
	a)	and sealed container or container(s)
**	3.22 3.22	Hand Holds
	3.22 3.23	Adequate hand holds fitted below deck Bilge Pumps and Buckets
**	3.23.1	two strong buckets, each with a lanyard and of at least 9 l (2.4 US Gal)
	a)	capacity
Mo3Mu0,1,2	3.23.1 b)	one permanently installed manual bilge pump
**	3.23.2	All required permanently installed bilge pumps shall be operable with all cockpit
		seats, hatches and companionways shut and with permanently installed
**	3.23.3	discharge pipe(s) of sufficient capacity
	3.23.3	Bilge pumps shall not be connected to cockpit drains and shall not discharge into a Closed Cockpit
**	3.23.4	Bilge pumps shall be readily accessible for maintenance and for clearing out
	0.2011	debris
**	3.23.5	All removable bilge pump handles retained by a lanyard
	3.24	Compass
MoMu0,1,2,3	3.24 a)	Marine magnetic compass capable of being used as a steering compass:
MoMu0,1,2,3,	3.24 b)	Permanently installed marine magnetic steering compass, independent of any
4 MoMu0,1,2,3	3.24 c)	power supply, correctly adjusted with deviation card a second compass which may be hand-held and/or electronic
1101100,1,2,5	3.25	Halyards.
**	3.25 a)	A minimum of two halyards, each capable of hoisting a sail, on each mast
MoMu0,1,2,3	3.25 b)	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
	512/12	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 3.28.1	Propulsion Engines
	3.20.1 a)	engines and associated systems installed in accordance with their manufacturers' guidelines and suitable for the size and intended use of the
	4)	boat
MoMu0,1,2,3	3.28.1	an engine which provides a minimum speed in knots of (1.8 x \sqrt{LWL} in
-	b)	metres) or (\sqrt{LWL} in feet)
Mo3	3.28.1	either an inboard or outboard engine, with associated power supply systems,
**	c) 3.28.1	all securely fastened an inboard combustion engine shall have a permanently installed exhaust,
	d)	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 control system.

	3.28.2	Generator
**	3.28.2	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	3.28.3 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
MoMu0,1,2,3	3.28.3	At the start a boat with a combustion engine shall carry sufficient fuel to meet
1101100717275	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 method for starting the engine and/or separate generator
**	a) 3.28.4	batteries installed after 2011 shall be of the sealed type from which liquid
	b)	electrolyte cannot escape
**	3.28.4	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 minimum speed for at least 5 hours
	3.29	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	be DSC capable if installed after 2015
MoMu1,2,3	c) 3.29.2	DSC capable VHF transceivers shall be programmed with an assigned MMSI
Momu1,2,5	d)	(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
**	2 20 6	
	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 Mu1,2,3	3.29.13	an AIS Transponder which either:
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		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
	5)	with not more than 40% power loss
SECTION 4 - P	PORTABI	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	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 the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	b) 4.04.2 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 MoMu0,1,2,3	4.04.3 a)	be adjacent to stations such as the helm, sheet winches and masts, where crewmembers work
MoMu0,1,2,3	4.04.3 b)	enable a crewmember to clip on before coming on deck and unclip after going below
MoMu0,1,2,3	4.04.3 c)	enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays
steate	4.05	Fire Fighting Equipment
** MoMu1,2,3	4.05.1 4.05.2	A fire blanket adjacent to every cooking device with an open flame 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)	a searchlight, suitable for searching for a person overboard at night and for collision avoidance
MoMu0,1,2,3	4.07.1 b)	a flashlight in addition to 4.07 a)
**	4.08 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 crew
	4.09	Foghorn
**	4.09 4.10	A foghorn Radar Reflector
**	4.10.1	A passive radar reflector with:
**	4.10.1 a)	octahedral circular plates of minimum diameter 30 cm (12"), or
**	4.10.1 b)	octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	4.10.1 c)	a non-octahedral reflector with a documented Root Mean Square minimum Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and $\pm 20^{\circ}$ of heel
	4.11	Navigation Equipment
**	4.11	Navigational charts (not solely electronic), light list and chart plotting equipment
	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 a)	the principal method of steering is by means of an unbreakable metal tiller

MoMu0,1,2,3	4.15.1	there are two methods (e.g. tillers, wheels) of				
MoMu0,1,2,3	<mark>b)</mark> 4.15.2	which shares components with the other exc A proven method of emergency steering with				
**	4.16	Tools and Spare Parts			C 11	
**	4.16.1 4.16.2	Tools and spare parts, suitable for the duration An effective means to quickly disconnect or s			•	-
	4.10.2	boat		e stanu	ing nggi	ig nom the
	4.17	Boat's name				
**	4.17	The boat's name on miscellaneous buoyant e		ent, sucl	h as lifeja	ackets,
		cushions, lifebuoys, recovery slings, grab bag	js etc.			
**	4.18	Retro-reflective material				:C
<u>ት</u> ት	4.18	Marine grade retro-reflective material on lifet lifejackets	buoys, r	ecovery	/ slings, i	iferafts and
	4.19	EPIRBS				
	4.20	Liferafts				
	4.20.1	Liferaft Construction				
MoMu1,2	4.20.1	One or more inflatable liferafts with a total ca			mmodate	e at least
	a)	the total number of people on board which co	•			
MoMu1,2	4.20.1	SOLAS LSA Code 1997 Chapter IV or later ve	rsion; o	or		
MoMu1,2	a) i 4.20.1	ISO 9650-1:2005, Type 1, Group A - Small C	raft - In	flatable	. or	
MOMUL	a) ii	150 9050-1.2005, Type 1, Group A - Smail C			, 01	
MoMu1,2	4.20.1	ISAF liferafts manufactured before 2016 until	replace	ement i	s due at	end of
·	a) iii	service life; or	•			
MoMu1,2	4.20.1	ORC liferafts manufactured before 2003 until	replace	ement is	s due at o	end of
	a) iv	service life				
	4.20.2 4.20.2	Minimum Liferaft Equipment				
MoMu0,1,2	4.20.2 a)	A SOLAS liferaft shall contain as a minimum a	a SOLAS	5 А расі	ς,	
MuMo2	4.20.2	An ISO 9650 liferaft shall contain as a minim	um Pac	k 2 (les	s than 24	ł hour
	c)	pack);		、		
MoMu1,2	4.20.2	The minimum contents of the ISO liferaft equ	•	•		
	d)	Not all items are necessarily packed within th				
		permitted to be carried within an accompany shall be in a readily accessible location:	ing wat	erproor	grab bag	g which
	Equipm	-	Pack	Pack	In	In
	-1- F		1	2	liferaft	liferaft
			>	<		or in
			24h	24h		grab
	Dortabl	a buovant balar aacily anarabla by band	1	1	Х	bag
	Sponge	e buoyant baler easily operable by hand	1 2	1 2	х Х	
		buoyant paddles with handles (not mitts) tied	1	1	X	
		t adjacent to an entrance				
		d Kit including at least 2 tubes of sunscreen.	1	0		Х
		sings must be capable of being effectively				
		wet conditions. The first aid kit shall be marked and shall be re-sealable.				
	Whistle		1	1	х	
		roof torch with 6 h duration and separate	2	1	X	
		and bulb or complementary torch				
	Signalli	ng mirror	1	1	Х	
		asickness pills, per person	6	6		X
		ness bag with simple effective closure	1	1		Х
		, per person nd flares in accordance with SOLAS LSA Code	6	3	3 min	Х
		r III, 3.2	J	5	5	~
		rachute flares in accordance with SOLAS LSA	2	2	1 min	Х
	Code C	hapter III, 3.1				

		al protective aids in accordance with SOLAS de Chapter III, 2.5	2	0		Х
	Repair any or system	outfit to enable survivors to repair leaks in all of the inflatable compartments. Repair s must work when wet and be capable of applied during violent motion.	1	1	Х	
	Air pun and con parts si for inst or all o or bello	apprice during violent motion. apprice during violent motion.	1	1	Х	
		g water per person, in containers of each not	1.5 L	0	X 0.5	Ха
		nan 500mL			L	
	Food p	er person	10 000 kJ	0		Х
	* Drink	ing water in the grab bag (if any) may be				
		d with a desalinator device				
MoMu1,2	4.20.2 d) i	Portable buoyant bailer easily operable by ha	nd			
MoMu1,2	4.20.2 d)ii	2 sponges				
MoMu1,2	4.20.2	Pair of buoyant paddles with handles (not mi	tts) tiec	l into ra	aft adjace	ent to an
MoMu1,2	d)iii 4.20.2	entrance Whistle				
M-M-2	d)iv	Metamore franch with Chadwatter and				
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 d)vii	Signalling mirror				
MoMu1,2	4.20.2 d)viii	6 anti-seasickness pills per person *				
MoMu1,2	4.20.2 d)ix	Seasickness bag per person, each with a sim	ple, effe	ective,	closure sy	ystem *
MoMu2	4.20.2 d)x	3 hand flares in accordance with SOLAS LSA	Code C	Chapter	- III, 3.2.	
MoMu1,2	4.20.2 d)xi	2 red parachute flares in accordance with SO may be stowed in the grab bag.	LAS LS/	A Code	Chapter	III, 3.1. 1
MoMu1,2	4.20.2 d)xii	Kit to repair leaks in most inflatable comparts and during violent motion	ments, o	operab	le in wet	conditions
MoMu1,2	4.20.2 d)xiii	Hand operable air pump, capable of and read most compartments. Loose parts captive to t	•		ite use to	inflate
MoMu1,2	-	* may be packed in grab bag instead of lifer	•	p.		
MoMu0,1,2	4.20.3 4.20.3 a)	Liferaft Packing and Stowage Each liferaft shall be packed either in:-				
MoMu0,1,2	4.20.3 a) i	a rigid container securely stowed on the worl open space; or:-	king dea	ck, in t	he cockpi	t or in an
MoMu0,1,2	4.20.3 a) ii	a rigid container or valise securely stowed in containing liferaft and abandon ship equipme and opens onto the cockpit or working deck,	ent only	which	-	
MoMu1,2	4.20.3 b)	In a boat with primary launch before June 20 valise not exceeding 40 kg securely stowed b companionway	001, a li	feraft r	<i>,</i> ,	

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) 4.20.4	Each raft shall be capable of being got to the lifelines or launched within 15 seconds 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 a) v	ORC liferafts annually
MoMu0,1,2	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
MoMu3,4	4.22.2 4.22.3	GPS Crew Overboard Position a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the
	1.22.5	helmsman and ready for immediate use
**	4.22.6	Each inflatable lifebuoy and any automatic device shall be tested and serviced at intervals in accordance with its manufacturer's instructions
**	4.22.7	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	4.22.8 4.22.8	A recovery sling which includes a: buoyant line of length no less than the shorter of 4 times LH or 36m (120')
MoMu0,1,2,3	4.22.0 a)	
MoMu0,1,2,3	4.22.8 b)	buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy
MoMu0,1,2,3	4.22.9 c)	minimum strength capable to hoist a crewmember aboard
	4.23	Pyrotechnic and Light Signals
**	4.23	Pyrotechnic signals shall be provided conforming to SOLAS 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.
		ategory Red Hand Flares LSA III 3.2 Orange Smoke Flares LSA III 3.3 ,1.2.3 4 2
	MoMu0 MoMu4	
	4.24	Spare Number
	4.25	Cockpit Knife
**	4.25	A strong, sharp knife, sheathed and securely restrained shall be provided
	4.26	readily accessible from the deck or a cockpit. 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
	a)	highly-visible colour (e.g. dayglo pink, orange or yellow)
**	4.26.1	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or
**	b) 4.26.1 c)	storm jib but HMPE and similar materials are permitted Sheeting positions on deck for each storm and heavy-weather sail
**	4.26.1 d)	Sheeting positions for the trysail independent of the boom
**	4 26 2	
**	4.26.2 4.26.2	Sail Areas 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	4.26.2	A heavy-weather jib (or heavy-weather sail in a boat with no forestay) with:
3 **	a) 4.26.2 a) i	area of 13.5% height of the foretriangle squared
**	4.26.2 a) ii	readily available means, independent of a luff groove, to attach to the stay
**	4.26.2	For sails made after 2011: Storm and heavy weather jib areas calculated as:
	c) 4.26.3	(0.255 x luff length x (luff perpendicular + 2 x half width)) 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 4.29	Spare Number
	4.23	Deck Bags SECTION 5 - PERSONAL EQUIPMENT
**		Each crew member shall have:
	5.01	Lifejacket
**	5.01.1	A lifejacket which shall:

**	5.01.1 a)i) 5.01.1	if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or equivalent, including EN 396 or UL 1180 and: if inflatable have a gas inflation system
**	a)i) 5.01.1	have crotch/thigh straps (ride up prevention system (RUPS))
**	a)i) 5.01.1 a) 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
**	5.01.1 a) ii	system crotch/thigh straps (ride up prevention system (RUPS))
MoMu0,1,2,3	5.01.1 b)	have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3
**	5.01.1 c)	be clearly marked with the boat's or wearer's name
MoMu0,1,2,3	5.01.1 d)	have a sprayhood in accordance with ISO 12402-8
**	5.01.1 f)	if inflatable, regulalrly 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.
**	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	5.02.2 a)	comply with ISO 12401 or equivalent
MoMu0,1,2,3	5.02.2 b)	not exceed 2 m (6'-6") including the length of the hooks
MoMu0,1,2,3	5.02.2 c)	have self-closing hooks
MoMu0,1,2,3	5.02.2 d)	have overload indicator flag embedded in the stitching
MoMu0,1,2,3	5.02.2 e)	be manufactured after 2000
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
MoMu0,1,2,3	b)	an intermediate self-closing hook on a 2 m (6'-6") tether
MoMu0,1,2,3	5.02.5	A tether which has been overloaded shall be replaced
	5.07	Survival Equipment SECTION 6 - TRAINING
MoMu3	6.01.3	When there are only two crewmembers, at least one shall have undertaken 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 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

17 Dec 20 – 1.02.1 RRS 4 to 3, 3.02.2 3.02.3, 3.02.4 Dates changed to 2022 4.26.2 'IG' deleted