Extract for Race Category 3 Monohulls JANUARY 2020 - DECEMBER 2021

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

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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

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 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
<*	1.01.3	Sailing (RRS), Equipment Rules of Sailing(ERS), class rules and Rating Systems. 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 **Responsibility of Person in Charge**
- 1.02.1 Under RRS 3 the responsibility for a boat's decision to participate in a

1 02 2	is the s shall do seawor crew w shall al of his i	continue racing is hers alone. The safety of a boat and her crew sole and inescapable responsibility of the Person in Charge who o his best to ensure that the boat is fully found, thoroughly rthy and manned by an experienced and appropriately trained who are physically fit to face bad weather. The person in charge lso assign a person to take over his responsibilities in the event ncapacitation.
1.02.2	nor the complet	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 and unlimited responsibility of the Person in Charge.
1.02.3	competi authorit	cipating 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 report ified in 2.02
1.03		ions, Abbreviations, Word Usage
1.03.1		ons of Terms used in this document
Abbrevi		Description
#		Pound force (lbf)
ABS		American Bureau of Shipping
Age Dat		Month/year of first launch
AIS		Automatic Identification Systems
CEN		Comité Européen de Normalisation
Coamin	a	The part of the cockpit, including the transverse after limit, over which
Cuannin	g	water would run when the boat is floating level and the cockpit is filled to overflowing
COLREG	25	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		
-	ana la au	Cardio-Pulmonary Resuscitation
Crewme	ember	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		The transverse station at which the upper corner of the transom meets the sheerline.
First La		Month & year of first launch of the individual boat
Foul-We	eather	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
INMARS	SAT	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	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

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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
	Monohu		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
	Multihu		A boat with more than one hull
	Open C	ockpit	A cockpit that is not a Contained Cockpit.
	ORC		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	d	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 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	ed	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 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 harness)
	Line		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.
	Waterli		The water surface when the boat is floating in measurement trim
**	World S		formerly the International Sailing Federation or ISAF
ጥጥ	1.03.2		rds "shall" and "must" are mandatory, and "should" and "may" are
**	1 02 2	permiss	
	1.03.3		rd "yacht" shall be taken as fully interchangeable with the word "boat".
SECTION 2 - A	2.01		GENERAL REQUIREMENTS
**	2.01	-	ries of Events
	2.01	-	ing Authorities shall select from one of the following categories and may
	2 01 4		the OSR to suit local conditions
MaMun	2.01.4	Catego	•
MoMu3			cross open water, most of which is relatively protected or close to
	2.02	shorelin	
	2.02		nt Reporting
	2.02	-	anizing Authority of a race will establish whether any incidents occurred,
			reported would be likely to be relevant to evolving the Offshore Special
			ions, the plan review process, or in increasing safety. The Organizing y will follow any guidelines issued by World Sailing concerning incident
		reportin	
	2.03	Inspec	•
	2.05	Tusher	

**	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
**	d)	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
SECTION 3 -		JRAL 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
_		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 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	
		3.02.2 within 24 months before the start of the race or after a grounding
M 0 1 0 0	2.02.4	whichever is the later
Mo0,1,2,3	3.02.4	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,
1105	510111	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
		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
MoO 1 2 2 4	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
Mo0,1,2,3,4	3.06.2	structural features prevent its installation The following minimum clear hatch openings if First Launch after 2013:
Mo0,1,2,3,4 Mo0,1,2,3,4	a)	a circular hatch with diameter 450 mm (18"); or
Mo0,1,2,3,4 Mo0,1,2,3,4	b)	any other shape with minimum dimension of 380 mm (15") and minimum area of
,-,-,-,.	· /	,

Mo0,1,2,3,4

0.18 m² (1.9 ft²) (see figure 1)

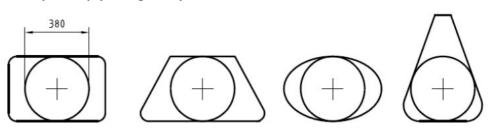


Figure 1 - Measurements of Minimum Clear Opening Hatches & Companionways

		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
	u)	remaining firmly shut in a 180° capsize
Mo0 1 2 2 4	b)	above the water when the boat is heeled 90°
Mo0,1,2,3,4	D)	
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 companionway sill that does not extend below the local sheerline; or
1100,1,2,3,7		a companionway sin that does not extend below the local sheering, of
Mo0 1 2 2 4	a)	a companionway in full compliance with ISO 11912 category 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
		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
	2)	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
**	2.02.2	
1. J.		Cockpit drain cross section area of unobstructed openings (after allowance for
Ψ Ψ	-)	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)	$4 \times 20 \text{ mm} (3/4'')$ 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 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. 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 Primary Launch before 1993 where it shall be no greater than 560 mm (22")
MoMu3,4	iv	a boat less than 8.5 m (28') LH may use a single lifeline system with a height 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") and shall not pass outboard of supporting stanchions
**	d)	Pulpit and stanchion bases permanently installed with pulpits and stanchions 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:
**	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 $(3/8'')$
**	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")
**		

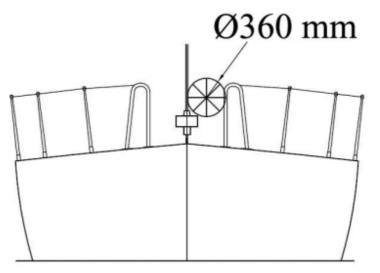


Figure 2 - Diagram Showing Pulpit Opening

Lifelines may terminate at or pass through adequately braced stanchions set inside and overlapping the bow pulpit

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:

**

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h)

i)

**	i	50 i	mm (2") for an upp	er or single lifeline		
**	ii	120	120 mm (4 34") for an intermediate lifeline			
	3.14.3	Spa	re number			
	3.14.4		re number			
	3,14.5	Spa	re number			
	3.14.6	Life	eline Specification	าร		
Mo0,1,2,3	3.14.6	Life	lines of stranded sta	ainless steel wire		
	a)					
**	3.14.6	The	minimum diameter	r is specified in table 8 below	I	
	b)					
**	3.14.6	Stai	nless steel lifelines	shall be uncoated and used	without close-fitting sleeving,	
	c)	hov	vever, temporary sle	eeving may be fitted provide	d it is regularly removed for	
	-	insp	pection.		- /	
**	3.14.6	A la	nyard of synthetic i	rope may be used to secure	lifelines provided the gap it	
	d)	clos	es does not exceed	l 100 mm (4"). This lanyard :	shall be replaced annually	
**	3.14.6	All o	components of the l	lifeline enclosure system sha	II have a breaking strength no	
	e)	less	than the lifeline			
	LH		Wire Min. lifeline	HMPE rope (Single braid)	HMPE Core (Braid on braid)	
			diameter	min. lifeline diameter	min. lifeline diameter	
	under		3mm (1/8")	4mm (5/32")	4mm (5/32")	
	8.5m (2	28')				
	8.5m -		4mm (5/32")	5mm (3/16")	5mm (3/16")	
	13m)				
	over 13		5mm (3/16")	5mm (3/16")	5mm (3/16")	
	(42' 8") 3.17		e Rail or Foot - St	on		
Mo0,1,2,3	3.17.1			•	5 mm (1"), located as close as	
1100,1,2,5	J.1/.1			chion bases, around the fore		
Mo0,1,2,3	3.17.2	•		² between 25-50 mm (1-2") h		
1100/1/2/0	511/12			Primary Launch before 1984	•	
	3.18	Toi				
MoMu3,4	3.18.2			oilet or fitted bucket		
,	3.19	Bui	•			
MoMu1,2,3,4	3.19.2	Per	manently installed b	ounks		
	3.20		oking Facilities			
MoMu0,1,2,3	3.20	Per	manently installed o	cooking stove, capable of bei	ng operated safely at sea,	
		-	n fuel shutoff contro			
	3.21		_	ks & Drinking Water		
	3.21.1		nking Water Tanl			
MoMu2,3	3.21.1	Per	manently installed o	delivery pump and water tan	k(s)	
	a)	_				
	3.21.3		ergency Drinking			
MoMu1,2,3	3.21.3		•	, .	gency use in a dedicated and	
	a) 3.22		led container or cor nd Holds	italiler(s)		
**				ittad balaw dack		
	3.22 3.23		quate hand holds fi ge Pumps and Bu			
**	3.23.1				east 9 I (2.4 US Gal) capacity	
	a)		Strong Buckets, eu			
Mo3Mu0,1,2	3.23.1	one	permanently instal	led manual bilge pump		
11001100/1/2	b)	0110				
**	3.23.2	All i	required permanent	ly installed bilge pumps shal	l be operable with all cockpit	
			· ·	npanionways shut and with p	• •	
			harge pipe(s) of su	• • •	,	
**	3.23.3		••••	· · ·	ns and shall not discharge into	
		-	osed Cockpit	•	2	
**	3.23.4	Bilg	e pumps shall be re	eadily accessible for mainten	ance and for clearing out	
		deb				
**	3.23.5	All ı	removable bilge pur	mp handles retained by a lan	iyard	

MoMu0,1,2,3	3.24 3.24 a)	Compass Marine magnetic compass capable of being used as a steering compass:
MoMu0,1,2,3,4	,	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) <mark>3.25 b)</mark>	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	spare bulbs (not required for LED)
	3.28	Engines, Generators, Fuel
**	3.28.1	Propulsion Engines
1. J.	3.28.1 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	3.28.1	an engine which provides a minimum speed in knots of (1.8 x \sqrt{LWL} in metres)
1 101 100/11/2/0	b)	or (\sqrt{LWL} in feet)
Mo3	3.28.1	either an inboard or outboard engine, with associated power supply systems, all
	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	an inboard electrical engine, when fitted, shall be provided with a permanently
	e)	installed power supply, adequate heavy weather protection and have an engine control system.
**	3.28.2	Generator
	3.28.2 3.28.3	If an optional generator separate from the propulsion engine is carried, it shall be installed in accordance with the manufacturer's guidelines Liquid Fuel Systems
ΜοΜυθ 1 2 3	3 28 3	All fuel tanks for storage of liquid fuels shall be rigid (but may have permanently
MoMu0,1,2,3 MoMu0,1,2,3	a)	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
		charging requirements for the duration of the race and to motor at the above minimum speed for at least 5 hours
MaM::0 1 2 2	3.28.4	Battery Systems
MoMu0,1,2,3	3.28.4 a)	a dedicated engine/generator starting battery when an electric starter is the only method for starting the engine and/or separate generator
**	3.28.4	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 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 minimum rated output power of 25 W
MoMu3	a) 3.29.2 b)	a masthead antenna and co-axial feeder cable with not more than 40% power loss

Мо	oMu1,2,3	3.29.2 c)	be DSC capable if installed after 2015
Mo	oMu1,2,3	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
Мс	oMu1,2,3,4	3.29.5	another DSC equipped station 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)
**	<u>د</u>	3.29.6	a second radio receiver, which may be the handheld VHF in 3.29.5 above, capable of receiving weather bulletins
Мс	oMu3	3.29.8	a GPS
Мс	0,1,2,3 u1,2,3	3.29.13	
	oMu0,1,2,3	3.29.13 a)	shares the masthead VHF antenna via a low loss AIS antenna splitter; or
Мо	oMu0,1,2,3	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
SE			E EQUIPMENT
36		OKIADL	A boat shall have:
		4.01	Sail Letters & Numbers
	**	4.01 .1	
М			Identification on sails which complies with RRS 77 and RRS Appendix G
MC	oMu0,1,2,3	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
Mo	oMu0,1,2,3	4.04.1	Permanently Installed fittings for jackstay ends and clipping points
Mo	oMu0,1,2,3	4.04.2	Jackstays which shall:
Мс	oMu0,1,2,3	4.04.2 a)	be independent on each side of the deck
Мо	oMu0,1,2,3	4.04.2 b)	enable a crewmember to move readily between the working areas on deck and the cockpit(s) with the minimum of clipping and unclipping operations
Мо	oMu0,1,2,3	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
		-7	rope
Мс	oMu0,1,2,3	4.04.3	Clipping points which shall:
	oMu0,1,2,3	4.04.3	be adjacent to stations such as the helm, sheet winches and masts, where
	01 100/2/2/2/0	a)	crewmembers work
Мо	oMu0,1,2,3	4.04.3 b)	enable a crewmember to clip on before coming on deck and unclip after going below
Mc	oMu0,1,2,3	4.04.3	enable two-thirds of the crew to be simultaneously clipped on without depending
	51100,1,2,5	c)	on jackstays
		4.05	Fire Fighting Equipment
**	<	4.05.1	
		4.05.1	A fire blanket adjacent to every cooking device with an open flame
M	oMu1,2,3		2 fire extinguishers, each with 2 kg of dry powder or equivalent, in different parts of the boat
		4.06	Anchors
Мс	oMu1,2,3	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:
Мо	oMu0,1,2,3	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
	a)	
**	4.10.1 b)	octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	4.10.1	a non-octahedral reflector with a documented Root Mean Square minimum Rada
	c)	Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and \pm 20° 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
	1.14	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 4.13.1	A knotmeter or distance measuring instrument (log)
	4.13.1	
MoMu,1,2,3,4	4.13.2 4.14	A depth sounder
	4.14 4.15	Spare Number Emergency Steering
MoMu0,1,2,3	4.15.1 4.15.1	An emergency tiller capable of being fitted to the rudder stock except when the principal method of steering is by means of an unbreakable metal tiller
MoMu0,1,2,3	a)	
MoMu0,1,2,3	4.15.1 b)	there are two methods (e.g. tillers, wheels) of controlling a rudder, neither of 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	
	4.20.2	
	4.20.3	
	4.20.4	•
	4.21	Grab Bags
Mo3Mu3,4	4.21	Either a watertight compartment or a grab bag, readily accessible whether or no the boat is inverted, with the following minimum contents:
Mo3Mu3,4	4.21 a)	
Mo3Mu3,4	4.21 b)	
Mo3Mu3,4	4.21 c)	3 red hand flares
Mo3Mu3,4	4.21 d)	a watertight strobe light with spare batteries
14 214 2 4	4.21 e)	a knife
Mo3Mu3,4	4.ZI C)	

			5	outside, shall be marked with the name
			pat, and shall have a lanyard and	
	4.22		verboard Identification and R	lecovery
	4.22.1	Locator		
	4.22.2		w Overboard Position	
MoMu3,4	4.22.3		by 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 infl	1	c device shall be tested and serviced at urer's instructions
**	4.22.7		ng line, no less than 6 mm (1/4") accessible to cockpit	diameter, 15 - 25 m (50 - 75') long,
MoMu0,1,2,3	4.22.8	A recove	ery sling which includes a:	
MoMu0,1,2,3	4.22.8 a)			orter of 4 times LH or 36m (120')
MoMu0,1,2,3	4.22.8 b)	buoyanc	y section (horseshoe) with no les	s than 90 N (20#) buoyancy
MoMu0,1,2,3	4.22.9 c)	minimun	n strength capable to hoist a crev	vmember aboard
	4.23	Pvrotec	chnic and Light Signals	
**	4.23	-		forming to SOLAS LSA Code Chapter III
				nped expiry date (if any) or if no expiry
			mped , not older than 4 years.	
	Race Ca	ategory	Red Hand Flares LSA III 3.2	Orange Smoke Flares LSA III 3.3
	MoMu0	5,	4	2
	MoMu4			2
	4.24	Spare N	umber	
	4.25	Cockpit		
**	4.25		, sharp knife, sheathed and secure le from the deck or a cockpit.	rely restrained shall be provided readily
	4.26		& Heavy Weather Sails	
	4 26 1	Design	-	

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) 4.26.1 b)	highly-visible colour (e.g. dayglo pink, orange or yellow) Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but HMPE and similar materials are permitted
**	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	Sail Areas
**	4.26.2 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	4.26.2	A heavy-weather jib (or heavy-weather sail in a boat with no forestay)
**	a) 4.26.2	with: area of 13.5% height of the foretriangle squared
**	a) i 4.26.2	readily available means, independent of a luff groove, to attach to the stay
**	a) ii 4.26.2	For sails made after 2011: Storm and heavy weather jib areas calculated as:
-	c)	(0.255 x luff length x (luff perpendicular + 2 x half width))
MoMu3	4.26.3 4.26.3	Sail Inventory either a storm trysail as defined in OSR 4.26.2 d), or mainsail reefing to reduce
Homus	a) ii	the luff by at least 40% (or rotating wing mast if suitable)
	4.28	Spare Number
	4.29	Deck Bags SECTION 5 - PERSONAL EQUIPMENT
**		Each crew member shall have:
**	5.01 5.01.1	Lifejacket 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 a)i)	have crotch/thigh straps (ride up prevention system (RUPS))
**	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 system
**	5.01.1 a) ii	crotch/thigh straps (ride up prevention system (RUPS))
MoMu0,1,2,3	5.01.1	have an emergency position indicating light in accordance with either ISO 12402-
**	b) 5.01.1 c)	8 or SOLAS LSA code 2.2.3 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)	
	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
	0100	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