Extract for Race Category 3 Multihulls JANUARY 2018- DECEMBER 2019

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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 2019

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

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	Responsibility of Person in Charge
**	1.02.1	Under RRS 4 the responsibility for a boat's decision to participate in a

race or continue racing is hers alone. The safety of a boat and her crew is the sole and inescapable responsibility of the Person in Charge who shall do his best to ensure that the boat is fully found, thoroughly seaworthy and manned by an experienced and appropriately trained crew who are physically fit to face 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)

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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

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 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

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

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 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) 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

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.

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	2.03	Inspection
**		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)	when not in use be stowed in conditions in which deterioration is minimised
**	ď)	be readily accessible
**	e)	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 - S	TRUCTUF	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
		the mast and the boat while racing
	3.02	Watertight 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
	3.05	Stability and Flotation - Multihulls
Mu0,1,2,3,4	3.05.1	Watertight bulkheads and compartments (which may include permanently
		installed flotation material) in each hull, to ensure that the boat is effectively
		unsinkable and capable of floating in a stable position with at least half the
M. 0 1 2 2 4	2.05.2	length of one hull flooded (see OSR 3.13.2)
Mu0,1,2,3,4	3.05.2	Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in
M.,0 1 2 2 4	2.05.2	every hull without accommodation if with a First Launch after 1998
Mu0,1,2,3,4	3.05.3	Designed and built to resist capsize
	3.07 3.07.1	Exits and Escape Hatches - Multihulls Exits
Mu0,1,2,3	3.07.1	At least two exits in each hull which contains accommodations
Mu0,1,2,3	3.07.1 3.07.2	Escape Hatches, Underside Clipping Points & Handholds
Mu0,1,2,3,4	a)	If 12 m (39'-4") LH and greater each hull which contains accommodation:
Mu0,1,2,3,4	i	an escape hatch for access to and from the hull in the event of an inversion;
Mu0,1,2,3,4 Mu0,1,2,3,4	ii	a minimum clearance diameter through each escape hatch of 450 mm (18") or
1100,1,2,3,1	"	when an escape hatch is not circular, sufficient clearance to allow a
		crewmember to pass through fully clothed on boats if First Launch after 2002
Mu0,1,2,3,4	iii	each escape hatch above the waterline when the boat is inverted;
Mu0,1,2,3,4	iv	each escape hatch at or near the midships station if First Launch after 2000
Mu0,1,2,3,4	٧	each escape hatch on the side nearest the vessel's central axis for a catamaran
		if First Launch after 2002
Mu0,1,2,3,4	3.07.2	if a trimaran at least two escape hatches in compliance with the dimensions in
, , , ,	b)	OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002
Mu0,1,2,3,4	c)	each escape hatch shall have been opened both from inside and outside within
	,	6 months prior to the race
Mu0,1,2,3,4	3.07.2	appropriate handholds/clipping points on the underside sufficient for all crew
	d)	(on a trimaran these shall be around the central hull)
Mu0,1,2,3,4	e)	a catamaran with a central nacelle first launched after 2002 shall have on the
· · · ·	-	underside around the central nacelle, handholds of sufficient capacity to enable
		all persons on board to hold on and/or clip on securely
Mu2,3,4	3.07.3	if less than 12 m (39'-4") LH either escape hatches in compliance with OSR
		3.07.2 a), b) and c) or:
Mu2,3,4	a)	in each hull which contains accommodation, a station where an emergency
		hatch may be cut. The cutting line shall be clearly marked both inside and
		outside with an outline and the words "ESCAPE CUT HERE", and
Mu2,3,4	b)	tools suitable for cutting the emergency hatch, ready for instant use, adjacent

		to the cutting site. Each tool shall be secured to the vessel by a lanyard.
1.1.	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
	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
* *	1- 1	exterior and interior even when the boat is inverted
** **	b)	blocking devices:
**	i ii	capable of being retained in position with the hatch open or shut
**	iii	secured to the boat (e.g. by lanyard) for the duration of the race permit exit in the event of inversion
Mu0,1,2,3,4	3.08.7	if a multihull with a companionway hatch extending below the local sheerline
11u0,1,2,5,7	5.00.7	either:
Mu0,1,2,3,4	a)	have a minimum sill height of 300 mm (12") and be capable of being blocked
, , , ,	,	off up to the level of the local sheerline whilst giving access to the interior with
		the blocking device(s) in place; or
Mu0,1,2,3	b)	be in compliance with ISO 11812 to design category A
	3.09	Cockpits
**	3.09.1	Cockpits that self-drain quickly by gravity at all angles of heel and are
dada		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
**	2.00.2	Launch before 2003, at least 2% L above the waterline)
**	3.09.3 3.09.4	A bow, lateral, central or stern well is a cockpit for the purposes of OSR 3.09 Cockpit Volume
**	3.03.4	
ጥጥ		The maximum combined volume below lowest coamings of all contained
<i>ጥ</i> ጥ		The maximum combined volume below lowest coamings of all contained cockpits shall be:
Extract		cockpits shall be:
		<u> </u>
Extract	b)	cockpits shall be: primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit) primary launch after March 1992 as above for the appropriate category except
Extract MoMu2,3,4	b)	cockpits shall be: primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit) 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
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Extract MoMu2,3,4 ** ** ** ** ** ** **	3.09.5 a) b) 3.10 3.10.1 3.11 3.12 3.12.1	cockpits shall be: primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit) 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 Cockpit Drains Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of: 2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH 4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater Sea Cocks or Valves Permanently installed sea cocks or valves on all through-hull openings below the waterline except for integral deck scuppers and instrument through-hulls Sheet Winches Sheet winches mounted in such a way that an operator is not required to be substantially below deck Mast Step The heel of a keel stepped mast securely fastened to the mast step or adjoining structure Watertight Bulkheads Either a watertight "crash" bulkhead within 15% of LH from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy
Extract MoMu2,3,4 ** ** ** ** ** Mo0Mu0,1,2,3,4	a) b) 3.10 3.10.1 3.11 3.12 3.12.1 3.13 3.13.1	cockpits shall be: primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit) 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 Cockpit Drains Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of: 2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH 4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater Sea Cocks or Valves Permanently installed sea cocks or valves on all through-hull openings below the waterline except for integral deck scuppers and instrument through-hulls Sheet Winches Sheet winches mounted in such a way that an operator is not required to be substantially below deck Mast Step The heel of a keel stepped mast securely fastened to the mast step or adjoining structure Watertight Bulkheads Either a watertight "crash" bulkhead within 15% of LH from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LH of the hull
Extract MoMu2,3,4 ** ** ** ** ** ** **	a) b) 3.10 3.10.1 3.11 3.12 3.12.1 3.13 3.13.1	cockpits shall be: primary launch before April 1992: 9% (LWL x maximum beam x freeboard abreast the cockpit) 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 Cockpit Drains Cockpit drain cross section area of unobstructed openings (after allowance for screens if fitted) shall be at least that of: 2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH 4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater Sea Cocks or Valves Permanently installed sea cocks or valves on all through-hull openings below the waterline except for integral deck scuppers and instrument through-hulls Sheet Winches Sheet winches mounted in such a way that an operator is not required to be substantially below deck Mast Step The heel of a keel stepped mast securely fastened to the mast step or adjoining structure Watertight Bulkheads Either a watertight "crash" bulkhead within 15% of LH from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy

	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:
**	j	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")

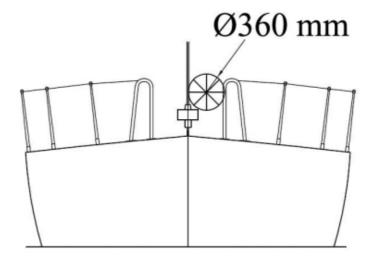


Figure 2 - Diagram Showing Pulpit Opening Lifelines may terminate at or pass through adequately braced stanchions set

		inside and overlapping the bow pulpit
**	i)	When a deflecting force of 4 kg (8.8 #) is applied to a lifeline at the mid-point
		of the longest span between supports that are aft of the mast, the deflection
		shall not exceed:
**	i	50 mm (2") for an upper or single lifeline

120 mm (4 ¾") for an intermediate lifeline

** ii **Special Requirements for Pulpits, Stanchions, Lifelines on Multihulls** Mu0,1,2,3,4 3.14.2 Mu0,1,2,3,4 When on a boat it is impractical to precisely follow OSR regarding pulpits, stanchions, lifelines, the regulations for monohulls shall be followed as closely as possible

3.14.3 Spare number

h)

**

**

3.14.4 Spare number

	3,14.5 3.14.6	Spare nun	nber Specifications	•	
Mo4,Mu**	3.14.6 a)	Lifelines o			
Mo4,Mu**	3.14.6 a) i	stran	ded stainless s	teel wire	
Mo4,Mu**	3.14.6 a) ii	HMPI	Ē		
**	3.14.6 b)	The minim	num diameter i	s specified in table 8 belo	ow
**	3.14.6 c)		temporary slee		d without close-fitting sleeving, ded it is regularly removed for
**	3.14.6 d)	•	•	•	e lifelines provided the gap it dishall be replaced annually
**	3.14.6 e)	•	nents of the lif an the lifeline	eline enclosure system sl	nall have a breaking strength
Mo4,Mu**	3.14.6 f)		-	hall be protected from chrecommended procedure	nafe and spliced in accordance
	LH		Wire	HMPE rope (Single braid)	HMPE Core (Braid on braid)
	under 8 8.5m -	3.5m (28') 13m	3mm (1/8") 4mm (5/32")	4mm (5/32") 5mm (3/16")	4mm (5/32") 5mm (3/16")
	over 13 8")	•	5mm (3/16")	5mm (3/16")	5mm (3/16")
	3.15		Nets or Tran	-	
Mu0,1,2,3,4 Mu0,1,2,3,4	3.15.1		s "net" and "tra horizontal	ampoline" are interchang	eable. A net shall be:
Mu0,1,2,3,4	a) 3.15.1 b)	openings openings openings	not larger than avoid chafe.	5 cm (2") in any dimens	eable fabric, or mesh with sion. Attachment points shall be net and a boat shall present no
Mu0,1,2,3,4	3.15.1 c)	•			d longitudinal support lines and
Mu0,1,2,3,4	3.15.1 d) 3.15.2	able to ca sea or in c Trimara n	rry the full wei case of capsize s with Doub l	ght of the crew either in when the boat is inverte le Crossbeams	
Mu0,1,2,3,4	3.15.2 3.15.2 a)			crossbeams shall have ne crossbeams, central hull a	ts on each side covering:- and outriggers
Mu0,1,2,3,4	3.15.2 b)	_			pulpit, the mid-point of each rossbeam and the central hull
Mu0,1,2,3,4	3.15.2 c)	the triangl (whicheve	les formed by ter is furthest af	the aftermost part of the	cockpit or steering position after crossbeam, and the
Mu0,1,2,3,4	3.15.2 d) 3.15.3	OSR 3.15. present w	2(c) is not a re hich comply w	equirement when cockpit	coamings and/or lifelines are equirements in OSR 3.14
Mu0,1,2,3,4		A trimarar each outri the crossb central hu central hu	n with a single gger on each s eam and the c II, and to the a II (whichever is	crossbeam shall have ne side between two straight outrigger, respectively to aftermost point of the coo	ts between the central hull and t lines from the intersection of the aft end of the pulpit on the expit or steering position on the
M.,0 4 2 2 4	3.16	Catamar		and an incident the second	.C. a.d.
Mu0,1,2,3,4	3.16			nets covering the area de	erinea:
Mu0,1,2,3,4 Mu0,1,2,3,4	3.16 a) 3.16 b)		y the hulls; and ally by transve	rse stations through the	forestay base, and the

	2.40	aftermost point of the boom lying fore and aft. However, a catamaran with a central nacelle (non-immersed) may satisfy the regulations for a trimaran
MoMu3,4	3.18 3.18.2	Toilet Permanently installed toilet or fitted bucket Bunks
MoMu1,2,3,4	3.19 3.19.2 3.20	Permanently installed bunks Cooking Facilities
MoMu0,1,2,3	3.20.1	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 3.21.3	Permanently installed delivery pump and water tank(s) 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 and sealed container or container(s)
	3.22	Hand Holds
**	3.22.1	Adequate hand holds fitted below deck
	3.23	Bilge Pumps and Buckets
**	3.23.1 a)	two strong buckets, each with a lanyard and of at least 9 I (2.4 US Gal) capacity
Mu0,1,2,3,4	3.23.1 c)	provision to pump out all watertight compartments (except those filled with impermeable buoyancy).
**	3.23.2	All required permanently installed bilge pumps shall be operable with all cockpit seats, hatches and companionways shut and with permanently installed 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 debris
**	3.23.5 3.24	All removable bilge pump handles retained by a lanyard Compass
MoMu0,1,2,3	3.24	Marine magnetic compass capable of being used as a steering compass:
MoMu0,1,2,3,4	3.24 a)	Permanently installed marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card
MoMu0,1,2,3	3.24 b) 3.25	a second compass which may be hand-held and/or electronic Halyards.
**	3.25	A minimum of two halyards, each capable of hoisting a sail, on each mast
	3.27	Navigation Lights
**	3.27.1	mounted above sheerline and so that they will not be masked by sails or the heeling of the boat
**	3.27.2	having light intensity meeting COLREGS. When incandescent bulbs are used the minimum power rating shall be:
ጥ	3.27.2	For LH less than 12 m (39'-4"), 10 W
**	a) 3.27.2 b)	For LH 12 m (39'-4") and greater, 25 W
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
MoMu0,1,2,3	a) 3.28.1	manufacturers' 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)
Mu1,2,3	b) 3.28.1 c)	or (√ LWL in feet) inboard engine, however if less than 12.0 m (39'-4") LH either an inboard engine, or an outboard engine together with permanently installed fuel supply
**	3.28.1	systems and fuel tank(s) an inboard engine shall have a permanently installed exhaust, cooling system,

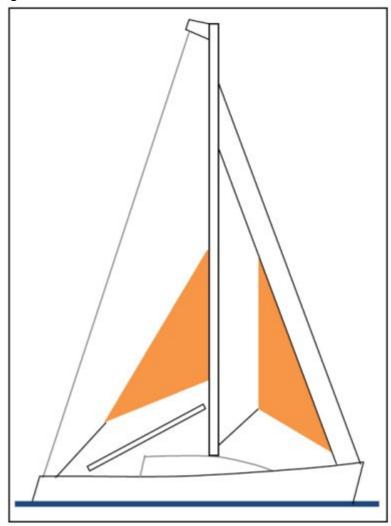
	15	
	d)	fuel supply, fuel tank(s) and shall have adequate heavy weather protection
**	3.28.2	Generator
* *	3.28.2	If an optional generator separate from the propulsion engine is carried, it shall
	2 20 2	be installed in accordance with the manufacturer's guidelines
M-M-0 1 2 2	3.28.3	Fuel Systems
MoMu0,1,2,3	3.28.3	All fuel tanks shall be rigid (but may have permanently installed flexible linings)
M-M-0 1 2 2	a)	and shall have a shutoff valve
MoMu0,1,2,3	3.28.3	At the start a boat shall carry sufficient fuel to meet charging requirements for
	b)	the duration of the race and to motor at the above minimum speed for at least
	2 20 4	8 hours
MaM0 1 2 2	3.28.4	Battery Systems
MoMu0,1,2,3	3.28.4	a dedicated engine starting battery when an electric starter is the only method
MaMu() 1 2 2	a) 3.28.4	for starting the engine batteries installed after 2011 shall be of the sealed type from which liquid
MoMu0,1,2,3	b)	electrolyte cannot escape
	3.29	Communications Equipment, GPS, Radar, AIS
MoMu0,1,2,3	3.29.01	a marine radio transceiver with an emergency antenna when the regular
1101100,1,2,3	3.23.01	antenna depends upon the mast
MoMu0,1,2,3	3.29.02	if the marine radio transceiver is a VHF:
MoMu0,1,2,3	3.29.02	a minimum rated output power of 25 W
1101100,1,2,3	a)	a minimum raced output power or 25 w
MoMu3	3.29.02	a masthead antenna and co-axial feeder cable with not more than 40% power
1101103	b)	loss
MoMu1,2,3	3.29.02	be DSC capable if installed after 2015
11011011,2,5	c)	be boe capable if instance after 2015
MoMu1,2,3	3.29.02	DSC capable VHF transceivers shall be programmed with an assigned MMSI
	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	3.29.05	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)
**	3.29.06	a second radio receiver, which may be the handheld VHF in 3.29.5 above,
		capable of receiving weather bulletins
MoMu3	3.29.08	a GPS
SECTION 4 - P	ORTABLE	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
M. 0 1 2 2 4	4.02	Search and Rescue Visibility
Mu0,1,2,3,4	4.02.2	A 1 m ² (11 ft ²) area of highly-visible pink, orange or yellow showing when the
	4.00	boat is inverted
**	4.03	Soft Wood Plugs
71-71-	4.03.1 4.04	A tapered soft wood plug stowed adjacent to every through-hull opening
MaMu0 1 2 2	4.04 4.04	Jackstays and Clipping Points Permanently Installed fittings for jackstay ends and clipping points
MoMu0,1,2,3 MoMu0,1,2,3	4.04.1	Jackstays which shall:
	4.04.1	
MoMu0,1,2,3	4.04.1 a)	be independent on each side of the deck
MoMu0,1,2,3	م) 4.04.1	enable a crewmember to move readily between the working areas on deck and
1.101.100,1,2,3	b)	the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	4.04.1	have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved
1 101 100,1,2,3	c)	stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16"), webbing or
	<i>-</i>)	HMPE rope
MoMu0,1,2,3	4.04.2	Clipping points which shall:
MoMu0,1,2,3	4.04.2	be adjacent to stations such as the helm, sheet winches and masts, where
		22 adjustant to stations saon as the holling shoot millions and master mileto

	a)	crewmembers work
MoMu0,1,2,3	4.04.2	enable a crewmember to clip on before coming on deck and unclip after going
11011u0,1,2,3	b)	below
MoMu0,1,2,3	4.04.2	enable two-thirds of the crew to be simultaneously clipped on without
1101140,1,2,3	c)	depending on jackstays
Mu0,1,2,3	4.04.2	on a trimaran with a rudder on the outrigger, permit a crewmember to repair
1100,1,2,5	d)	the steering mechanism whilst attached to a clipping point
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device with an open flame
MoMu1,2,3	4.05.1	2 fire extinguishers, each with 2 kg each of dry powder or equivalent, in
1401411,2,3	7.03.2	different parts of the boat
	4.06	Anchors
MoMu1,2,3	4.06	2 un-modified anchors that meet the anchor manufacturer's recommendation
MOMU1,2,3	4.00	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	
**	4.07 4.07	Flashlights and Searchlights Watertight lights with spare batteries and bulbs as follows:
		Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3	4.07 a)	a searchlight, suitable for searching for a person overboard at night and for
MaM0 1 2 2	4 07 b)	collision avoidance
MoMu0,1,2,3	4.07 b)	a flashlight in addition to 4.07 a)
Mu3,4	4.07 c)	the watertight flashlight in OSR 4.07 b) shall be stowed in the grab bag or
	4.08	emergency container First Aid Manual and First Aid Kit
**		
1	4.08.1	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
	4.00	of crew
**	4.09	Foghorn
ጥጥ	4.09.1	A foghorn Radar Reflector
**	4.10	
**	4.10.1 4.10.1	A passive radar reflector with: octahedral circular plates of minimum diameter 30 cm (12"), or
	a)	octanedial circular plates of minimum diameter 30 cm (12), or
**	4.10.1	octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
	b)	octanicara rectangular plates of minimum diagonal almension to an (10), or
**		
	4.10.1	a non-octahedral reflector with a documented Root Mean Square minimum
	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
	4.10.1 c)	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and
	c)	Radar Cross Section (RCS) area of 2 m 2 (22 ft 2) from 0-360 $^{\circ}$ of azimuth and $\pm 20^{\circ}$ of heel
**	c) 4.11	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and ±20° of heel Navigation Equipment
**	c)	Radar Cross Section (RCS) area of 2 m 2 (22 ft 2) from 0-360 $^{\circ}$ of azimuth and $\pm 20^{\circ}$ of heel
** **	c) 4.11 4.11.1	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment
	c) 4.11 4.11.1 4.12	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart
	c) 4.11 4.11.1 4.12	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart A safety equipment location diagram in durable waterproof material, clearly
	c) 4.11 4.11.1 4.12	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart A safety equipment location diagram in durable waterproof material, clearly displayed in the main accommodation, marked with the location of principal
	c) 4.11 4.11.1 4.12 4.12.1	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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
**	c) 4.11 4.11.1 4.12 4.12.1	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments
** MoMu0,1,2,3	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log)
** MoMu0,1,2,3	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder
** MoMu0,1,2,3	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering An emergency tiller capable of being fitted to the rudder stock except when the
** MoMu0,1,2,3 MoMu,1,2,3,4 MoMu0,1,2,3	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14 4.15 4.15.1	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering 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 MoMu,1,2,3,4	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14 4.15 4.15.1	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering An emergency tiller capable of being fitted to the rudder stock except when the
** MoMu0,1,2,3 MoMu,1,2,3,4 MoMu0,1,2,3	c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14 4.15 4.15.1	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering 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 MoMu,1,2,3,4 MoMu0,1,2,3	 c) 4.11 4.12.1 4.12.1 4.13.1 4.13.2 4.14 4.15.1 4.15.2 4.16 4.16.1 	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering 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 A proven method of emergency steering with the rudder disabled Tools and Spare Parts Tools and spare parts, suitable for the duration and nature of the passage
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** MoMu0,1,2,3 MoMu,1,2,3,4 MoMu0,1,2,3 MoMu0,1,2,3 **	 c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14 4.15 4.15.1 4.15.2 4.16 4.16.1 4.16.2 	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering 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 A proven method of emergency steering with the rudder disabled Tools and Spare Parts Tools and spare parts, suitable for the duration and nature of the passage An effective means to quickly disconnect or sever the standing rigging from the boat
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** MoMu0,1,2,3 MoMu,1,2,3,4 MoMu0,1,2,3 MoMu0,1,2,3 **	 c) 4.11 4.11.1 4.12 4.12.1 4.13 4.13.1 4.13.2 4.14 4.15 4.15.1 4.15.2 4.16 4.16.1 4.16.2 	Radar Cross Section (RCS) area of 2 m² (22 ft²) from 0-360° of azimuth and ±20° of heel Navigation Equipment Navigational charts (not solely electronic), light list and chart plotting equipment Safety Equipment Location Chart 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 Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log) A depth sounder Spare Number Emergency Steering 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 A proven method of emergency steering with the rudder disabled Tools and Spare Parts Tools and spare parts, suitable for the duration and nature of the passage An effective means to quickly disconnect or sever the standing rigging from the boat

		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
	4.20.2	Minimum Liferaft Equipment
	4.20.3	Liferaft Packing and Stowage
	4.20.4	Spare Number
	4.21	Grab Bags
Mo3Mu3,4	4.21	Either a watertight compartment or a grab bag, readily accessible whether or
11031103,4	7.21	not the boat is inverted, with the following minimum contents:
Mo3Mu3,4	4.21 a)	a watertight hand-held marine VHF transceiver with spare batteries
Mo3Mu3,4	•	· · · · · · · · · · · · · · · · · · ·
•	4.21 b) 4.21 c)	a watertight flashlight with spare batteries and bulb 3 red hand flares
Mo3Mu3,4	,	
Mo3Mu3,4	4.21 d)	a watertight strobe light with spare batteries
Mo3Mu3,4 **	4.21 e)	a knife If a graph had is provided it shall have inherent flotation, at least 0.1 m ² (1 ft ²).
	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
	4.22	name of the boat, and shall have a lanyard and clip
	4.22	Crew Overboard Identification and Recovery
	4.22.1	Locator Beacons
M M 2 4	4.22.2	GPS Crew Overboard Position
MoMu3,4	4.22.3	a lifebuoy with a self-igniting light, a whistle and a drogue within reach of the 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	A recovery sling which includes a:
MoMu0,1,2,3	4.22.8	buoyant line of length no less than the shorter of 4 times LH or 36m (120')
	a)	
MoMu0,1,2,3	4.22.8	buoyancy section (horseshoe) with no less than 90 N (20#) buoyancy
	b)	
MoMu0,1,2,3	4.22.9	minimum strength capable to hoist a crewmember aboard
	c)	
	4.23	Pyrotechnic and Light Signals
**	4.23.1	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.
	Race Ca	ategory Red Hand Flares LSA III 3.2 Orange Smoke Flares LSA III 3.3
	MoMu0	,1,2,3 4 2
	MoMu4	, , ,
	4.24	Spare Number
	4.25	Cockpit Knife
**	4.25.1	A strong, sharp knife, sheathed and securely restrained shall be provided readily
	-	accessible from the deck or a cockpit.

Storm & Heavy Weather Sails DesignFigure 3 4.26

4.26.1



**	4.26.1 a)	The material of the body of a storm sail purchased after 2013 shall have a highly-visible colour (e.g. dayglo pink, orange or yellow)
**	4.26.1	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or
	b)	storm jib but HMPE and similar materials are permitted
**	4.26.1	Sheeting positions on deck for each storm and heavy-weather sail
	c)	
**	4.26.1	Sheeting positions for the trysail independent of the boom
	d)	
**		
	4.26.2	Sail Areas
**	4.26.2	The maximum area of storm 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:
, , ,	a)	, , , , , , , , , , , , , , , , , , , ,
**	4.26.2	area of 13.5% height of the foretriangle (IG) squared
	a) i	3 () 1
**	4.26.2	readily available means, independent of a luff groove, to attach to the stay
	a) ii	3 · · · · · · · · · · · · · · · · · · ·
**	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	4.26.2	either a storm trysail as defined in OSR 4.26.2 d), or mainsail reefing to reduce
1 101 145	d) vii	the luff by at least 40%
	4.28	Spare Number
	4.29	•
	4.29	Deck Bags

### SECTION 5 - PERSONAL EQUIPMENT Each crew member shall have: 1.tfiejacket A lifejacket which shall: ** 5.01.1 ** 5.01.2 ** 5.01.1 ** 5.01.2 *			
Each rew member shall have:			SECTION 5 - PERSONAL FOLITPMENT
** 5.01.1 A lifejacket which shall:	**		
** 5.01.1 ** 6.01 ** 6.02 ** 6.03 ** 8.01.1 ** 8.0		5.01	
** 5.01.1 a) if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or equivalent, including EN 396 or UL 1180 and: ** 5.01.1 a)i) ** 5.01.1 a)ii ** 5.01.1 bave crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 a)ii ** 5.01.1 b) 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 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS) ** 5.01.1 b) in crotch/thigh straps (ride up prevention system (RUPS) ** 5.01.1 b) in crotch/thigh straps (rid	**		
** 5.01.1 if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or equivalent, including EN 396 or UL 1180 and: ** 5.01.1 a)i) ** 5.01.1 if inflatable have a gas inflation system a)i) ** 5.01.1 a) ii ** 5.01.1 a) ii ** 5.01.1 a) ii ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 a) ii ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 b) rototch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 have a emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 have a sprayhood in accordance with ISO 12402-8 d) ** 5.01.1 have a sprayhood in accordance with ISO 12402-8 d) ** 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. ** Safety Harness and Tethers MoMu0,1,2,3 5.02.2 A harness that complies with ISO 12401 or equivalent ** 6.02. A tether that shall: ** once were 2 m (6'-6") including the length of the hooks ** b) MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.3 All of the crew shall have either: ** 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 ** bound 1 the race in OSR 6.02 Training Topics ** Spare Number ** South 4 At least annually the crews shall practice the drills for: ** Crew-Overboard Recovery ** 6.04 At least annually the crews shall practice the drills for: ** Crew-Overboard Recovery	**	5.01.1	•
#* 5.01.1 #* 6.01.1 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04 #* 6.04		a)	
** 5.01.1 if inflatable have a gas inflation system (RUPS)) a))) ** 5.01.1 a))) ** 5.01.1 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 MoMu0,1,2,3 5.01.1 bave an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 bave a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.01.1 dave a sprayhood in accordance with ISO 12402-8 ** 5.01.4 The person in charge shall personally check each lifejacket on board. ** 5.01.2 Safety Harness and Tethers MoMu0,1,2,3 5.02.2 A harness that complies with ISO 12401 or equivalent MoMu0,1,2,3 5.02.2 have eself-closing hooks OMMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching MoMu0,1,2,3 5.02.2 have overload explain the replaced Survival Equipment SECTION 6 - TRAINING When there are only two crewmembers, at least one shall hav	**		
** 5.0.1.1 *** 5.0.1.2 *** 5.0.1.1 *** 5.0.1.2 *** 5.0.1.1 *** 5.0.1.2 *** 5.0.1.1 *** 5.0.1.2 *** 5.0.1.3 *** 5.0.1.1 *** 5.0.1.4 *** 5.0.1.4 *** 5.0.1.4 *** 5.0.1.5 *** 5.0.1.5 *** 5.0.1.5 *** 5.0.1.6 *** 5.0.1.6 *** 5.0.1.1 *** 5.0.1.1 *** 5.0.1.1 *** 6.0.2 *** 5.0.1.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.4 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *** 6.0.2 *			
** 5.01.1 have crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 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 MoMu0,1,2,3 5.01.1 have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 have a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.01.2 have a sprayhood in accordance with ISO 12402-8 ** 5.01.4 ** 5.01.4 have a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.01.2 have a sprayhood in accordance with ISO 12402-8 ** 5.01.4 ** 5.01.4 have a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.01.2 have a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.02.2 have a sprayhood in accordance with ISO 12402-8 MoMu0,1,2,3 5.02.2 comply with ISO 12401 or equivalent A tether that shall: complies with ISO 12401 or equivalent a) MoMu0,1,2,3 5.02.2 comply with ISO 12401 or equivalent a) 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 5.02.1 have overload indicator flag embedded in the stitching d) MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching d) MoMu0,1,2,3 5.02.1 have overload indicator flag embedded in the stitching d) MoMu0,1,2,3 5.02.1 have overloaded shall be replaced Survival Equipment SECTION 6 - TRAINING MoMu3 MoMu3 MoMu3 MoMu3 ** 6.02 ** Training Topics Spare Number 6.04 At least annually the crews shall practice the drills for: Crew-Overboard Recovery	**		if inflatable have a gas inflation system
** 5.01.1 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 (rotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 by 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 bave an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 bave a sprayhood in accordance with ISO 12402-8 dy) 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. ** 5.02.1 A harness that complies with ISO 12401 or equivalent A tetter that shall: a) MoMu0,1,2,3 5.02.2 comply with ISO 12401 or equivalent A tetter that shall: a) MoMu0,1,2,3 5.02.2 have self-closing hooks c) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.2 All of the crew shall have either: a tether not exceeding Im(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 5.02.4 A tether which has been overloaded shall be replaced Survival Equipment ** SECTION 6 - TRAINING MoMu3 ** 6.01 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 Spare Number 6.04 Koutine Training On-Board ** 6.04 Crew-Overboard Recovery	**		have analytical strange (vide var analytical analytical strange (DLIDC))
** 5.01.1 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 MoMu0,1,2,3 5.01.1 b) 12402-8 or SOLAS LSA code 2.2.3 be clearly marked with the boat's or wearer's name C) 14202-8 or SOLAS LSA code 2.2.3 be clearly marked with the boat's or wearer's name C) 14202-8 or SOLAS LSA code 2.2.3 MoMu0,1,2,3 5.01.2 have a sprayhood in accordance with ISO 12402-8 ** 5.01.4 The person in charge shall personally check each lifejacket spare cylinder and, if appropriate, spare activation head for each type of lifejacket on board. The person in charge shall personally check each lifejacket at least once annually. Sol.1 A tether that shall: complies with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether that shall: comply with ISO 12401 or equivalent A tether not exceed 2 m (6'-6") including the length of the hooks MoMu0,1,2,3 5.02.2 have self-closing hooks comply with ISO 12401 or equivalent 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 A tether which has been overloaded shall be replaced Survival Equipment SECTION 6 - TRAINING MoMu3 6.04 Koutine Training On-Board ** 6.04 Koutine Training On-Board A tleast annually the crews shall practice the drills for: Crew-Overboard Recovery	^		nave crotcn/tnigh straps (ride up prevention system (RUPS))
** 5.01.1 with a whistle, lifting loop, reflective material automatic/manual gas inflation system system (S.01.1 a) ii crotch/thigh straps (ride up prevention system (RUPS)) ** 5.01.1 have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 ** 5.01.1 have a sprayhood in accordance with ISO 12402-8 d) 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. ** 5.02.1 A barness that complies with ISO 12401 or equivalent A tether that shall: MoMu0,1,2,3 5.02.2 have self-closing hooks b) MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching d) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the stitching d) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.1 be manufactured after 2000 e) MoMu0,1,2,3 5.02.2 have overload indicator flag embedded in the ength of the hooks, or an intermediate self-closing hook on a 2 m (6'-6") tether ** 5.02 ** All of the crew shall have either: a tether not exceeding 1m(33") including the length of the hooks, or an intermediate self-closing hook on a 2 m (6'-6") tether ** 5.02 ** All of the crew shall have either: a tether not exceeding 1m(33") including the length of the hooks, or an intermediate self-closing hook on a 2 m (6'-6") tether ** 5.02 ** Training Topics ** 5.02 ** Training Topics ** 5.03 ** Fraining On-Board ** 6.04 ** A tleast annually the crews shall practice the drills for: ** 6.04 ** Crew-Overboard Recovery	**		if manufactured after 2011 comply with ISO 12402 2 (Lovel 150) and he fitted
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** 5.01.1 a) ii crotch/thigh straps (ride up prevention system (RUPS)) a) ii have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3 be clearly marked with the boat's or wearer's name conduction of the conduction o		u) II	, , , , , , , , , , , , , , , , , , , ,
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Medical Training

communications systems

At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and relevant

6.05

6.05.3

MoMu3,4

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

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