World Sailing Offshore Special Regulations

Extract for Race Category 2 Multihulls JANUARY 2016- DECEMBER 2017

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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 2016

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@isaf.co.uk

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.
- 1.03 Definitions, Abbreviations, Word Usage
- 1.03.1 Definitions of Terms used in this document

TABLE 1

**

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Pound force (lbf)

ABS American Bureau of Shipping
Age Date Month/year of first launch
AIS Automatic Identification Systems
CEN Comité Européen de Normalisation

Coaming Includes the transverse after limit of the cockpit over which water

would run in the event that when the boat is floating level the cockpit

is flooded or 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 ISAF - 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
GPIRB EPIRB, with integral GPS position-fixing

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.

Lifeline Rope or wire line rigged as guardrail / guardline around the deck

LH Hull Length as defined by the ERS

LSA IMO International Life-Saving Appliance Code

LWL (Length of) loaded waterline

Monohull A boat with one hull

Moveable Lead or other material including water which has no practical function Ballast in the boat other than to increase weight and/or to influence 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 Means the item is effectively built-in by e.g. bolting, welding, glassing

Installed etc. 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 degree 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 Water carried for the sole purpose of influencing stability and/or trim Ballast and which may be varied in weight and/or moved while a boat is

racina.

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

2.01.3 Category 2

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MoMu,2 Races of extended duration along or not far removed from shorelines or in large

unprotected bays or lakes, where a high degree of self-sufficiency is required of the boats

2.02 Inspection

**		A boat may be inspected at any time. If she fails to comply with the OSR her
	2.03	entry may be rejected or she will be subject to protest General Requirements
**	2.03.1	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
**	d)	be readily accessible
**	e)	be of a type, size and capacity suitable and adequate for the intended use and
**	2.03.2	size of the boat. Heavy items shall be permanently installed or securely fastened
SECTION 3 - S		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
A.A.	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
MoMu0,1,2	3.03.2	A multihull and a monohull with Primary Launch between 1987 and 2010 shall
1 101 100,1,2	3.03.2	have been designed, built, maintained, modified or repaired in accordance with
		the requirements of:
MoMu0,1,2	c)	the EC Recreational Craft Directive for Category A having obtained the CE mark,
	•	or
MoMu0,1,2	d)	ISO 12215 Category A, with written statements signed by the designer and
		builder confirming that they have respectively designed and built the boat in
	,	accordance with the ISO standard, and
MoMu0,1,2	e)	have written statements or approvals in accordance with a), or b) or c) and d)
		above for all significant repairs or modifications to the hull, deck, coach roof, keel or appendages, on board, except
MoMu0,1,2	f)	that a race organizer or class rules may accept, when that described in (a), (b),
1101140,1,2	1)	(c), (d) or (e) above is not available, the signed statement by a naval architect
		or other person familiar with the standards listed above that the boat fulfils
		these requirements
Mu0,1,2,3,4	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
Mu0,1,2,3,4	3.05.3	every hull without accommodation if with a First Launch after 1998 Designed and built to resist capsize
Mu0,1,2,3,4	3.03.3 3.07	Exits and Escape Hatches - Multihulls
1-140/1/2/3/-	3.07.1	Exits
Mu0,1,2,3	0.07.1	At least two exits in each hull which contains accommodations
, , ,-	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	ii	a minimum clearance diameter through each escape hatch of 450 mm (18") or
		when an escape hatch is not circular, sufficient clearance to allow a
MuO 1 2 2 4	:::	crewmember to pass through fully clothed on boats if First Launch after 2002
Mu0,1,2,3,4	iii iv	each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000
Mu0,1,2,3,4 Mu0,1,2,3,4	V	each escape hatch on the side nearest the vessel's central axis for a catamaran
1 100,1,2,3,7	٧	A

M. O 1 2 2 4	L.)	if First Launch after 2002
Mu0,1,2,3,4	b)	if a trimaran at least two escape hatches in compliance with the dimensions in
Mu() 1 2 2 /	c)	OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within
Mu0,1,2,3,4	c)	6 months prior to the race
Mu0,1,2,3,4	d)	appropriate handholds/clipping points on the underside sufficient for all crew
1100,1,2,3,1	u)	(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
	٠,	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.
**	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	Hatches not conforming with 3.08.1 shall be clearly labelled and used in
	3.00.2	accordance with the following instruction "NOT TO BE OPENED AT SEA"
**	3.08.3	A hatch, including a hatch over a locker shall be:
**	a)	permanently attached and capable of being firmly shut immediately and
	Ψ)	remaining firmly shut in a 180° capsize
**	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:
**	İ	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
Mu0,1,2,3,4	3.08.7	if a multihull with a companionway hatch extending below the local sheerline
MO 1 2 2 4	-1	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
1100,1,2,5	3. 09	Cockpits
**	3.09.1	Cockpits that self-drain quickly by gravity at all angles of heel and are
	3.03.12	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
**	3.09.7	Cockpit Volume
**		The maximum combined volume below lowest coamings of all contained
_		cockpits shall be:
Extract		primary launch before April 1992: 9% (LWL x maximum beam x freeboard
MoMu2,3,4		abreast the cockpit)
**	b)	primary launch after March 1992 as above for the appropriate category except
		that "lowest coamings" shall not include any aft of the FA station and no
		extension of a cockpit aft of the working deck shall be included in calculation of cockpit volume
	3.09.8	Cockpit Drains
alada.	3.09.8	CUCKPIL DI AIIIS

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screens if fitted) shall be at least that of:

**

Cockpit drain cross section area of unobstructed openings (after allowance for

	,	2 25 (4/0 !:
**	a)	2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH
<i>ተ</i> ተ	b)	4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater
**	3.10	Sea Cocks or Valves
ጥጥ		Permanently installed sea cocks or valves on all through-hull openings below
	2 4 4	the waterline except for integral deck scuppers and instrument through-hulls
**	3.11	Sheet Winches
ጥጥ		Sheet winches mounted in such a way that an operator is not required to be
	2 4 2	substantially below deck
**	3.12	Mast Step The head of a local standard mast account featured to the most standard and district.
<i>ተተ</i>		The heel of a keel stepped mast securely fastened to the mast step or adjoining
	2.42	structure
M-0M-0 1 2 2 4	3.13	Watertight Bulkheads
Mo0Mu0,1,2,3,4	3.13.1	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
	2 4 2 2	effectively filling the forward 30% LH of the hull
Mo0Mu0,1,2,3,4	3.13.2	Any required watertight bulkhead to be strongly built to take a full head of
	244	water pressure without allowing any leakage into the adjacent compartment
	3.14	Pulpits, Stanchions, Lifelines
**	3.14.1	The perimeter of the deck surrounded by system of lifelines and pulpits as
**	- \	follows:
<i>ተተ</i>	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.
slesle		Temporary sleeving shall not modify tension in the lifeline.
**	b)	Minimum heights of lifelines and pulpit rails above the working deck and vertical
slesle		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
data		Primary Launch before 1993 where it shall be no greater than 560 mm (22")
**	c)	Lifelines permanently supported at intervals of not more than 2.2 m (7'-2 1/2")
slesle	15	and shall not pass outboard of supporting stanchions
**	d)	Pulpit and stanchion bases permanently installed with pulpits and stanchions
data		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"),
slesle		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")

Mu0,1,2,3,4

b)

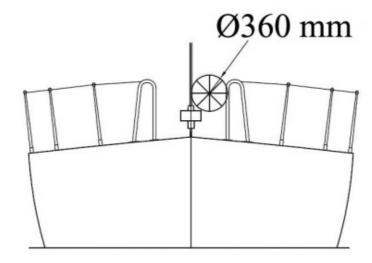


		Figure 2	- Diagram Show	ing Pulpit Opening				
**	h)	_	_		equately braced stanchions set			
	,		d overlapping th		•			
**	i)				lied to a lifeline at the mid-point			
	-	of the lor	ngest span betwe	een supports that are	aft of the mast, the deflection			
		shall not	exceed:					
**	i	50 mm (2	2") for an upper	or single lifeline				
**	ii	120 mm	120 mm (4 ³ / ₄ ") for an intermediate lifeline					
Mu0,1,2,3,4	3.14.2				ions, Lifelines on Multihulls			
Mu0,1,2,3,4				•	llow OSR regarding pulpits,			
			,	egulations for monol	nulls shall be followed as closely			
		as possib						
	3.14.3	Spare nu						
	3.14.4	Spare nu						
	3,14.5	Spare nu						
**	3.14.6		Specifications					
		Lifelines		landaria (LIMPE) (Para				
Mo4,Mu**	ii	_	i Modulus Polyet	nylene (HMPE) (Dyne	eema®/Spectra® or equivalent)			
**	b)	rope	mum diameter i	anacified in table 0	a alou.			
**	b)			s specified in table 8				
• •	c)				used without close-fitting sleeving, ovided it is regularly removed for			
		inspection		ing may be nitted pro	ovided it is regularly removed for			
**	d)			ne may he used to se	cure lifelines provided the gap it			
	u)	•	•	-	yard shall be replaced annually			
**	e)			. ,	n shall have a breaking strength			
	C)	•	nan the lifeline	inic chaosare system	Total Have a breaking strength			
Mo4,Mu**	f)			all be protected from	chafe and spliced in accordance			
	.,			ecommended proced				
**			- Minimum Diam	-				
	LOA		wire	HMPE rope (Single	HMPE Core (Braid on			
				braid)	braid)			
	under 8	8.5m	3mm (1/8 in)	4mm (5/32 in)	4mm (5/32 in)			
	(28ft)							
	8.5m -	13m	4mm (5/32	5mm (3/16 in)	5mm (3/16 in)			
			in)					
		3m (43 ft)	5mm (3/16in)	* * *	5mm (3/16in)			
Mu0,1,2,3,4	3.15		I Nets or Tram	-				
Mu0,1,2,3,4	3.15.1			angeable with the wo	ord "trampoline"			
Mu0.1.2.3.4	,	A net sha						
Mu0,1,2,3,4	a) b)		y horizontal		moable fabric or moch with			
1V(1111 1 2 /1	n ı	mada tra	m aurania wawa	n wanning watar nai	TOUSING TSOME OF MACO WITH			

 $\dot{\text{made}}$ from durable woven webbing, water permeable fabric, or mesh with

		openings not larger than 5 cm (2") in any dimension. Attachment points shall be planned to avoid chafe. The junction between a net and a boat shall present no risk of foot trapping
Mu0,1,2,3,4	c)	solidly fixed at regular intervals on transverse and longitudinal support lines and shall be fine-stitched to a bolt rope
Mu0,1,2,3,4	d)	able to carry the full weight of the crew either in normal working conditions at sea or in case of capsize when the boat is inverted.
	3.15.2	Trimarans with Double Crossbeams
	,	A trimaran with double crossbeams shall have nets on each side covering:-
Mu0,1,2,3,4	a)	the area formed by the crossbeams, central hull and outriggers
Mu0,1,2,3,4	b)	the triangles formed by the aft end of the central pulpit, the mid-point of each forward crossbeam, and the intersection of the crossbeam and the central hull
Mu0,1,2,3,4	c)	the triangles formed by the aftermost part of the cockpit or steering position (whichever is furthest aft), the mid-point of each after crossbeam, and the intersection of the crossbeam and the central hull; except that:-
Mu0,1,2,3,4	d)	the requirement in OSR 3.15.2(d) shall not apply when cockpit coamings and/or lifelines are present which comply with the minimum height requirements.
	3.15.3	Trimarans with Single Crossbeams
Mu0,1,2,3,4		A trimaran with a single crossbeam shall have nets between the central hull and each outrigger on each side between two straight lines from the intersection of the crossbeam and the outrigger, respectively to the aft end of the pulpit on the central hull, and to the aftermost point of the cockpit or steering position on the central hull (whichever is furthest aft)
	3.16	Catamarans
Mu0,1,2,3,4	-\	On a catamaran the total net surface shall be limited:
Mu0,1,2,3,4 Mu0,1,2,3,4	a) b)	laterally by the hulls; and longitudinally by transverse stations through the forestay base, and the
Мио, 1, 2, 3, т	-	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
	3.18	Toilet
MoMu0,1,2	3.18.1 3.19	Permanently installed toilet Bunks
MoMu1,2,3,4	3.19.2	Permanently installed bunks
1 101 101,2,5, 1	3.20	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	Drinking Water Tanks & Drinking Water
	3.21.1	Drinking Water Tanks
MoMu2,3		Permanently installed delivery pump and water tank(s)
	3.21.3	Emergency Drinking Water
MoMu1,2,3		At least 9 I (2.4 US Gal) of drinking water for emergency use in a dedicated and
	3.22	sealed container or container(s) Hand Holds
**	3.22	Adequate hand holds fitted below deck
	3.23	Bilge Pumps and Buckets
**	3.23.1 a)	two strong buckets, each with a lanyard and of at least 9 I (2.4 US Gal) capacity
Mo3Mu0,1,2	,	one permanently installed manual bilge pump
Mu0,1,2,3,4	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
		_

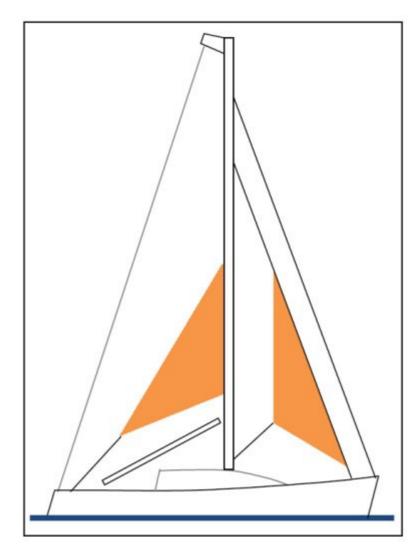
**	3.23.5	All removable bilge pump handles retained by a lanyard
	3.24	Compass
MoMu0,1,2,3		Marine magnetic compass capable of being used as a steering compass:
MoMu0,1,2,3,4	4 a)	Permanently installed marine magnetic steering compass, independent of any
		power supply, correctly adjusted with deviation card
MoMu0,1,2,3	b)	a second compass which may be hand-held and/or electronic
	3.25	Halyards.
**		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:
**	a)	For LH less than 12 m (39'-4"), 10 W
**	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	spare bulbs (not required for LED)
	3.28	Engines, Generators, Fuel
	3.28.1	Propulsion Engines
**	a)	engines and associated systems installed in accordance with their
		manufacturers' guidelines and suitable for the size and intended use of the boat
MoMu0,1,2,3	b)	an engine which provides a minimum speed in knots of (1.8 x \sqrt{LWL} in metres)
		or (√ LWL in feet)
Mu1.2.3		if less than 12.0 m (39'-4") LH either an inboard engine, or an outboard engine
		together with permanently installed fuel supply systems and fuel tank(s)
**	d)	an inboard engine shall have a permanently installed exhaust, cooling system,
		fuel supply, fuel tank(s) and shall have adequate heavy weather protection
	3.28.2	Generator
**		If an optional generator separate from the propulsion engine is carried, it shall
		be installed in accordance with the manufacturer's guidelines
	3.28.3	Fuel Systems
MoMu0,1,2,3	a)	All fuel tanks shall be rigid (but may have permanently installed flexible linings)
		and shall have a shutoff valve
MoMu0,1,2,3	b)	At the start a boat 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
		8 hours
	3.28.4	Battery Systems
MoMu0,1,2,3	a)	a dedicated engine starting battery when an electric starter is the only method
		for starting the engine
MoMu0,1,2,3	b)	batteries installed after 2011 shall be of the sealed type from which liquid
		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
	2 20 02	antenna depends upon the mast
MoMu0,1,2,3	3.29.02	if the marine radio transceiver is a VHF:
MoMu0,1,2,3	a)	a minimum rated output power of 25 W
MoMu0,1,2	b)	a masthead antenna not less than 38 cm (15") in length and co-axial feeder
	`	cable with not more than 40% power loss (Loss Estimator)
MoMu1,2,3	c)	be DSC capable if installed after 2015
MoMu1,2,3	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
MaNut 224	2 20 05	another DSC equipped station
MoMu1,2,3,4	3.29.05	, 5
		When not in use to be stowed in a grab bag or emergency container (see OSR
		4.21)
		n

**	3.29.06	·
MoMu1,2		capable of receiving weather bulletins a GPS capable of recording a crew overboard position, within 10 seconds, and monitoring that position
MoMu1,2	3.29.13	an AIS Transponder which either:
MoMu0,1,2	a)	shares the masthead VHF antenna via a low loss AIS antenna splitter; or
MoMu0,1,2	b)	has a dedicated AIS antenna not less than 38 cm (15") in length mounted with
1101100,1,2	b)	its base not less than 3 m (10') above the Waterline and co-axial feeder cable
		with not more than 40% power loss (Loss Estimator)
SECTION 4 - PO	DRTABLE	•
	4.04	A boat shall have:
**	4.01	Sail Letters & Numbers Identification on calls which complies with DDC 77 and DDC Appendix C
	4.01.1	Identification on sails which complies with RRS 77 and RRS Appendix G
MoMu0,1,2,3	4.01.2	An alternative means of displaying identification as required under RRS
		Appendix G for a mainsail, to be displayed when none of the numbered sails are set
	4.02	Search and Rescue Visibility
Mo1,Mu1,2,3,4	4.02.1	A solid area of highly-visible pink, orange or yellow
Mu0,1,2,3,4	4.02.1	A 1 m ² (11 ft ²) area of highly-visible pink, orange or yellow showing when the
11100,1,2,3,7	7.02.2	boat is inverted
	4.03	Soft Wood Plugs
**	7.03	A tapered soft wood plug stowed adjacent to every through-hull opening
	4.04	Jackstays and Clipping Points
MoMu0,1,2,3	7.0-7	Permanently Installed fittings for jackstay ends and clipping points
MoMu0,1,2,3	4.04.1	Jackstays which shall:
MoMu0,1,2,3	a)	enable a crewmember to move readily between the working areas on deck and
1101140717275	u)	the cockpit(s) with the minimum of clipping and unclipping operations
MoMu0,1,2,3	b)	have a breaking strength of 2040 kg (4500#) and be uncoated and non-sleeved
	-,	stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16"), webbing or
		HMPE rope
MoMu0,1,2,3	4.04.2	Clipping points which shall:
MoMu0,1,2,3	a)	be adjacent to stations such as the helm, sheet winches and masts, where
	- /	crewmembers work
MoMu0,1,2,3	b)	enable a crewmember to clip on before coming on deck and unclip after going
	•	below
MoMu0,1,2,3	c)	enable two-thirds of the crew to be simultaneously clipped on without
	•	depending on jackstays
Mu0,1,2,3	d)	on a trimaran with a rudder on the outrigger, permit a crewmember to repair
		the steering mechanism whilst attached to a clipping point
	4.05	Fire Fighting Equipment
**	4.05.1	A fire blanket adjacent to every cooking device with an open flame
MoMu1,2,3		2 fire extinguishers, each with 2 kg each of dry powder or equivalent, in
		different parts of the boat
	4.06	Anchors
MoMu1,2,3		2 suitable anchors with suitable combination of chain and rope, ready for
		immediate use, except that for a boat less than 8.5 m (28') LH there shall be 1
		suitable anchor with suitable combination of chain and rope
ded	4.07	Flashlights and Searchlights
**		Watertight lights with spare batteries and bulbs as follows:
MoMu0,1,2,3	a)	a searchlight, suitable for searching for a person overboard at night and for
		collision avoidance
MoMu0,1,2,3	b)	a flashlight in addition to 4.07 a)
**	4.08	First Aid Manual and First Aid Kit
		A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit
		shall reflect the likely conditions and duration of the passage, and the number
	4.09	of crew
	4.03	Foghorn

**		A foghorn
	4.10	Radar Reflector
**	4.10.1	A passive radar reflector with:
**	a)	octahedral circular plates of minimum diameter 30 cm (12"), or
**	a) b)	octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or
**	-	a non-octahedral reflector with a documented Root Mean Square minimum
	c)	Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and
		$\pm 20^{\circ}$ of heel
	4.11	
**	4.11	Navigation Equipment
11.11	4.12	Navigational charts (not solely electronic), light list and chart plotting equipment
**	4.12	Safety Equipment Location Chart
11.11		A safety equipment location diagram in durable waterproof material, clearly
		displayed in the main accommodation, marked with the location of principal
	4.13	items of safety equipment
MaMuO 1 2 2	4.13 4.13.1	Depth, Speed and Distance Instruments A knotmeter or distance measuring instrument (log)
MoMu 1 2 2 4	4.13.1	5 (5)
MoMu,1,2,3,4	4.13.2 4.14	A depth sounder Spare Number
	4.1 4 4.15	Emergency Steering
MaMu() 1 2 2	4.15 4.15.1	5 , 5
MoMu0,1,2,3	4.15.1	An emergency tiller capable of being fitted to the rudder stock except when the
MaMu() 1 2 2	4.15.2	principal method of steering is by means of an unbreakable metal tiller
MoMu0,1,2,3	4.15.2 4.16	A proven method of emergency steering with the rudder disabled 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
	7.10.2	boat
	4.17	Boat's name
**	7.1/	The boat's name on miscellaneous buoyant equipment, such as lifejackets,
		cushions, lifebuoys, recovery slings, grab bags etc.
	4.18	Retro-reflective material
**	7.10	Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and
		lifejackets
	4.19	EPIRBs
MoMu1,2	7.17	A water and manually activated 406 MHz EPIRB
MoMu0,1,2	4.19.2	A 406 MHz EPIRB registered after 2015 shall include an internal GPS
MoMu0,1,2	4.19.3	All EPIRBs registered with the appropriate authority associated with the country
1101100,1,2	1.13.3	code in the hexadecimal identification (15 Hex ID) of the beacon. A beacon can
		be registered online with the Cospas-Sarsat IBRD if the country does not
		provide a registration facility and the country has allowed direct registration in
		the IBRD
	4.20	Liferafts
	4.20.1	Liferaft Construction
MoMu1,2	a)	One or more inflatable liferafts with a total capacity to accommodate at least
,	,	the total number of people on board which complies with:
MoMu1,2	i	SOLAS LSA Code 1997 Chapter IV or later version; or
MoMu1,2	ii	ISO 9650-1:2005, Type 1, Group A - Small Craft - Inflatable; or
MoMu1,2	iii	ISAF liferafts manufactured before 2016 until replacement is due at end of
·		service life; or
MoMu1,2	iv	ORC liferafts manufactured before 2003 until replacement is due at end of
		service life
	4.20.2	Minimum Liferaft Equipment
MoMu0,1,2	a)	A SOLAS liferaft shall contain as a minimum a SOLAS A pack;
MuMo2	c)	An ISO 9650 liferaft shall contain as a minimum Pack 2 (less than 24 hour
		pack);
MoMu1,2	d)	The minimum contents of the ISO liferaft equipment packs are listed below. Not
		all items are necessarily packed within the liferaft. Some items are permitted to
		be carried within an accompanying waterproof grab bag which shall be in a

MoMu1 2		readily accessible location:				
MoMu1,2	Equipm	TABLE 14-Liferaft Equipment ent	Pack 1 > 24h	Pack 2 < 24h	In liferaft	In liferaft or in grab bag
	Portable Sponge	e buoyant baler easily operable by hand	1 2	1 2	X X	bag
		buoyant paddles with handles (not mitts) tied tadjacent to an entrance	1	1	X	
	First-Aid All dres used in	d Kit including at least 2 tubes of sunscreen. sings must be capable of being effectively wet conditions. The first aid kit shall be marked and shall be re-sealable.	1	0		X
	Whistle		1	1	Χ	
	battery	roof torch with 6 h duration and separate and bulb or complementary torch	2	1	X	
	_	ng mirror	1	1	Χ	
		asickness pills, per person	6	6		X
	Seasick per per	ness bag with simple effective closure system,	1	1		X
	Red ha	nd flares in accordance with SOLAS LSA Code r III, 3.2	6	3	3 min	X
	Red par	rachute flares in accordance with SOLAS LSA hapter III, 3.1	2	2	1 min	X
	Therma	of protective aids in accordance with SOLAS de Chapter III, 2.5	2	0		X
	Repair or any or systems	outfit to enable survivors to repair leaks in all of the inflatable compartments. Repair s must work when wet and be capable of pplied during violent motion.	1	1	X	
	Air pump or bellows which shall be simple, robust 1 1 X and complete, with all necessary connections (loose parts shall be captive to the main apparatus) ready for instant use to enable air to be pumped into any or all of the inflatable compartments. The air pump or bellows shall be designed and built specifically for easy operation by hand					
	Drinkin	g water per person, in containers of each not nan 500mL	1.5 L	0	0.5 L	Xa
	Food pe	er person	10 000 kJ	0		X
		ing water in the grab bag (if any) may be				
		d with a desalinator device				
MoMu0,1,2	a)	Each liferaft shall be packed either in:-				
MoMu0,1,2	I	a rigid container securely stowed on the work open space; or:-	ing aeci	k, in the	е соскріт	or in an
MoMu0,1,2	ii	a rigid container or valise securely stowed in a containing liferaft and abandon ship equipmen	nt only	which	_	
MoMu1,2	b)	and opens onto the cockpit or working deck, In a boat with primary launch before June 200 valise not exceeding 40 kg securely stowed be	01, a life	eraft m		cked in a
MoMu0,1,2	c)	companionway On a multihull or on a monohull with moveable readily deployable whether or not the boat is			feraft sha	ll be

MoMu0,1,2 MoMu0,1,2	d) e)	The end of each liferaft painter should be sec Each raft shall be capable of being got to the	-
	٥,	seconds	memies of laarierea main 15
	4.20.3	Spare Number	
	4.20.4	Spare Number	
MoMu0,1,2	4.20.5	Liferaft Servicing	
MoMu0,1,2	a)	A liferaft shall be serviced at a manufacturer following maximum intervals:	authorized service station at the
MoMu0,1,2	i	SOLAS liferafts annually	
MoMu0,1,2	ii	ISO 9650 canister packed liferafts every 3 ye	ars
MoMu0,1,2	iii	ISO 9650 valise packed liferafts every 3 years	
, ,		serviced annually	•
MoMu0,1,2	iv	ISAF liferafts annually	
MoMu0,1,2	V	ORC liferafts annually	
MoMu0,1,2	b)	Servicing certificates (original or a copy) on b	ooard
, ,	4.21	Grab Bags	
**	f)	If a grab bag is provided it shall have inherer	nt flotation, at least 0.1 m ² (1 ft ²)
	-	area of fluorescent orange colour on the outs	side, shall be marked with the
		name of the boat, and shall have a lanyard a	nd clip
	4.22	Crew Overboard Recovery	
**		Within reach of the helmsman and ready for	instant use:
**	4.22.1	a lifebuoy with a self-igniting light and a drog	
MoMu0,1,2	4.22.2	In addition to 4.22.1 above, one lifebuoy equ	lipped with:
MoMu0,1,2	a)	a whistle, a drogue, a self-igniting light and	
MoMu0,1,2	b)	a pole and flag. The pole shall be either perm	nanently extended or be capable of
		being fully automatically extended	
MoMu0,1,2	4.22.3	At least one lifebuoy shall depend entirely on	
**	4.22.4	Each inflatable lifebuoy and any automatic de	
steste	4 22 5	at intervals in accordance with its manufactur	
**	4.22.5	A heaving line, no less than 6 mm (1/4")diam	neter, 15 - 25 m (50 - 75') long,
M-M-0 1 2 2	4 22 6	readily accessible to cockpit	
MoMu0,1,2,3	4.22.6	A recovery sling which includes a:	or of 4 times III or 26m (120l)
MoMu0,1,2,3	a)	buoyant line of length no less than the shorter	
MoMu0,1,2,3 MoMu0,1,2,3	b)	buoyancy section (horseshoe) with no less the minimum strength capable to hoist a crewment	
14101410,1,2,3	c) 4.23	Pyrotechnic and Light Signals	iliber aboard
**	4.23.1	Pyrotechnic signals shall be provided conform	ning to SOLAS LSA Code Chanter
	1.23.1	III Visual Signals and not older than the stam	·
		expiry date stamped , not older than 4 years.	
-	race ca		orange smoke LSA III 3.3
	MoMu0	5 ,	2
	MoMu2	•	2
	Mo4		2
	Mu4		2
	4.24	Spare Number	
	4.25	Cockpit Knife	
**		A strong, sharp knife, sheathed and securely	restrained shall be provided readily
		accessible from the deck or a cockpit.	·
	4.26	Storm & Heavy Weather Sails	
	4.26.1	Design	
		Figure 3	



MoMu1,2		
**	a)	A storm sail purchased after 2013 shall have a highly-visible colour (e.g. dayglo pink, orange or yellow)
**	b)	Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but HMPE and similar materials are permitted
**	c)	Sheeting positions on deck for each storm and heavy-weather sail
**	d)	Sheeting positions for the trysail independent of the boom
**	e)	Storm and heavy weather jib areas calculated as: (0.255 x luff length x (luff perpendicular + 2 x half width)) *
MoMu0,1,2	f)	The storm trysail area calculated as (0.5 x leech length x shortest distance between tack point and leech) *
**		* Applies to sails made after 2011
	4.26.2	Sails
**		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	a)	A heavy-weather jib (or heavy-weather sail in a boat with no forestay) with:
**	i	area of 13.5% height of the foretriangle (IG) squared
**	ii	readily available means, independent of a luff groove, to attach to the stay
MoMu0,1,2	b)	A storm jib with:
MoMu0,1,2	i	area of 5% height of the foretriangle (IG) squared
MoMu0,1,2	ii	maximum luff length 65% of IG
MoMu0,1,2	iii	permanently attached means, independent of a luff groove, to attach to the stay
MoMu0,1,2	c)	A storm trysail (or rotating wing mast if suitable) with:
MoMu0,1,2	i	area of 17.5% mainsail hoist (P) x mainsail foot length (E)
MoMu0,1,2	ii	no headboard
MoMu0,1,2	iii	no battens

MoMu0,1,2 MoMu0,1,2	iv V	sail number and letters on both sides, as large as practicable in the case of a boat with an in-mast furling mainsail, the storm trysail shall be capable of being set while the mainsail is furled
Deck Bags	4.28	Spare Number
- com - m g c		SECTION 5 - PERSONAL EQUIPMENT
**		Each crew member shall have:
**	5.01	Lifejacket
**	5.01.1	A lifejacket which shall:
**	a)	
**	i)	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
**		have crotch/thigh straps (ride up prevention system (RUPS))
MoMu0,1,2		have an integral safety harness in compliance with OSR 5.02
**	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
**		crotch/thigh straps (ride up prevention system (RUPS))
MoMu0,1,2		an integral safety harness in compliance with OSR 5.02
MoMu0,1,2,3	b)	have an emergency position indicating light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3
**	c)	be clearly marked with the boat's or wearer's name
MoMu0,1,2,3	d)	have a sprayhood in accordance with ISO 12402-8
MoMu0,1,2,3	5.01.2	A boat shall carry at least one gas inflatable lifejacket spare cylinder and, if appropriate, a spare activation head.
MoMu0,1,2	5.01.3	A boat shall carry a spare at least one spare lifejacket as required in OSR 5.01.1
**	5.01.4	The person in charge shall personally check each lifejacket at least once annually.
MoMu0,1,2,3	5.02	Safety Harness and Tethers
MoMu0,1,2,3	5.02.1	A harness that complies with ISO 12401 or equivalent and a tether that:
MoMu0,1,2,3	a)	is not more than 2 m (6'-6") in length
MoMu0,1,2,3	b)	complies with ISO 12401 (or EN 1095 if manufactured prior to 2010)
MoMu0,1,2,3	c)	have overload indicator flag embedded in the stitching
MoMu0,1,2,3	d)	be manufactured after 2000
MoMu0,1,2,3	5.02.2	30% of the crew shall have either:
MoMu0,1,2,3	a)	a tether not more than 1 m (3′-3″) long, or
MoMu0,1,2,3	b)	a mid-point snaphook on a 2 m (6'-6") tether
MoMu0,1,2,3	5.02.3	A tether which has been overloaded shall be replaced
MaMuO 1 2	5.07	Survival Equipment
MoMu0,1,2	e)	where possible every PLB shall be registered with the appropriate authority associated with the country code in the hexadecimal identification (15 Hex ID)
		of the beacon. A beacon can be registered online with the Cospas-Sarsat IBRD
		if the country does not provide a registration facility and the country has
		allowed direct registration in the IBRD.
	5.08	Diving Equipment SECTION 6 - TRAINING
MoMu0,1,2	6.01	At least 30% but not fewer than two members of a crew, including the Person
, ,		in Charge shall have undertaken training within the five years before the start of
		the race topics which include practical, hands-on sessions.
	6.01.3	Spare Number
MoMu0,1,2	6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate gained
		at a World Sailing / ISAF Approved Offshore Personal Survival Training course shall be accepted by a race organizing authority as evidence of compliance with Special Regulation 6.01. See Appendix G - Model Training Course, for further
		details.
	6.02	Spare Number

**	6.03 6.04	Spare Number Routine Training On-Board Crews shall practice the drill for Crew-Overboard Recovery at least annually
	6.05	Medical Training
MoMu2		At least one crewmember shall have a valid first aid certificate completed within the last five years meeting:
MoMu0,1,2	a)	A certificate listed on the World Sailing website www.sailing.org/specialregs of MNA recognised courses
MoMu0,1,2	b)	STCW 95 First Aid Training complying with A-VI/1-3 - Elementary First Aid or higher STCW level
	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

Tue 22 Mar 16 14:23:45

Version 0.8 Amendments to this extract file:

3.24 Compass reworded for clarity

4.06 Anchors delete: "rode" insert "chain and rope"

4.21 – Grab Bags delete: c) 2 red parachute and 3 red hand flares

6. Training 6.01.4 Amend reference to Appendix ${\sf G}$