ISAF OFFSHORE SPECIAL REGULATIONS

www.sailing.org/specialregs
Extract for Race Category 2 Multihulls

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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 ISAF web site www.sailing.org/specialregs

Language & Abbreviations Used

- Mo Monohull
- Mu Multihull

" ** " means the item applies to all types of yacht in all Categories except

5 for which see Appendix J or 6 for which see Appendix L.

RED TYPE indicates a significant changes in 2012 *Guidance notes and recommendations are in italics*

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

Administration

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

ISAF Regulation 6.8.8.3 - The Special Regulations Sub-Committee shall: (a) be responsible for the maintenance, revision and changes to the ISAF 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 It is the purpose of these Special Regulations to establish uniform minimum equipment, accommodation and training standards for monohull and multihull yachts racing offshore. A Proa is excluded from these regulations.
- 1.01.2 These Special Regulations do not replace, but rather supplement, the requirements of governmental authority, the Racing Rules and the rules of Class Associations and Rating Systems. The attention of persons in charge is called to restrictions in the Rules on the location and movement of

**

**

	equipment.		
1.01.3	These Special Re	egulations, adopted internationally, are strongly or use by all organizers of offshore races. Race Committees	**
	-	ategory deemed most suitable for the type of race to be	
1.02	sailed.	of Person in Charge	
1.02.1		a yacht and her crew is the sole and inescapable	**
	-	of the person in charge who must do his best to	
		e yacht is fully found, thoroughly seaworthy and	
		experienced crew who have undergone appropriate	
		re physically fit to face bad weather. He must be the soundness of hull, spars, rigging, sails and all	
		ensure that all safety equipment is properly	
		d stowed and that the crew know where it is kept	
		o be used. He shall also nominate a person to take	
		onsibilities of the Person in Charge in the event of	
1.02.2	his incapacitat	cion. blishment of these Special Regulations, their use by race	**
1.02.2		the inspection of a yacht under these Special Regulations in	
	-	r reduces the complete and unlimited responsibility of the	
	person in charge		
1.02.3		ce -The responsibility for a yacht's decision to	**
	participate in a Fundamental I	a race or to continue racing is hers alone - RRS	
1.03		bbreviations, Word Usage	
1.03.1		erms used in this document	**
	TABLE 1		
	Age Date	Month/year of first launch	
	AIS	Automatic Identification Systems	
	CEN CPR	Comité Européen de Normalisation Cardio-Pulmonary Resuscitation	
	Coaming	Includes the transverse after limit of the cockpit over whi	ch water would run in
	counting	the event that when the yacht is floating level the cockpit	
		overflowing.	
	DSC	Digital Selective Calling	
	EN	European Norm	
	EPFS EPIRB	Electronic Position-Fixing System Emergency Position-Indicating Radio Beacon	
	FA Station	The transverse station at which the upper corner of the t	ransom meets the
		sheerline.	
	Foul-Weather	A foul weather suit is clothing designed to keep the wear	er dry and maybe
	Suit	either a jacket and trousers worn together, or a single ga	rment comprising
	CMDCC	jacket and trousers.	
	GMDSS GNSS	Global Maritime Distress & Safety System Global Navigation Satellite System	
	GPIRB	EPIRB, with integral GPS position-fixing	
	ITU	International Telecommunications Union	
	GPS	Global Positioning System	
	Hatch	The term hatch includes the entire hatch assembly and a	
	INMARSAT	part of that assembly (the part itself may be described as	2
	INMARJAT	This is Inmarsat Global Limited, the private company that satellite distress and safety communications, plus gener	•
		voice, fax and data	
	IMO	International Maritime Organisation	
	IMSO	The International Mobile Satellite Organisation, the indep	-
		intergovernmental organisation that oversees Inmarsat's	
	ICAE	Public Service Obligations for the GMDSS and reports on	tnese to IMU
	ISAF ISO	International Sailing Federation. International Standard or International Organization for S	Standardization
	100		

	Lifeline	Rope or wire line rigged as guardrail / guardline around th	e deck
	LOA	Length overall not including pulpits, bowsprits, boomkins e	
	LWL (Length of) loaded waterline		
	Monohull Yacht in which the hull depth in any section does not decrease towards the		
	centre-line.		
	Moveable Lead or other material including water which has no practical function in the		
	Ballast	boat other than to increase weight and/or to influence stat	
	Dallast	which may be moved transversely but not varied in weight	
		racing.	WITTE & DUAL IS
	OPC	5	cil)
	ORC	Offshore Racing Congress (formerly Offshore Racing Cound	
	OSR	Offshore Special Regulation(s)	
	Permanently	Means the item is effectively built-in by e.g. bolting, weldir	ng, glassing etc. and
	Installed	may not be removed for or during racing.	
	PLB	Personal Locator Beacon	
	Proa	Asymmetric Catamaran	
	RRS	ISAF - Racing Rules of Sailing	
	SAR	Search and Rescue	
	SART	Search and Rescue Transponder	
	Series Date	Month & Year of first launch of the first yacht of the produ	ction series
	SOLAS	Safety of Life at Sea Convention	
	Safety Line	A tether used to connect a safety harness to a strong point	
	Securely	Held strongly in place by a method (e.g. rope lashings, wir	- /
	Fastened	safely retain the fastened object in severe conditions inclue	
		capsize and allows for the item to be removed and replace	
	Static Ballast	Lead or other material including water which has no practi	
		boat other than to increase weight and/or to influence stat	
		which may not be moved or varied in weight while a boat	
	Static Safety	A safety line (usually shorter than a safety line carried with	n a harness) kept
	Line	clipped on at a work-station	
	Variable	Water carried for the sole purpose of influencing stability a	nd/or trim and
	Ballast	which may be varied in weight and/or moved while a boat	is racing.
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".		
SECTIO	N 2 - APPLICAT	ION & GENERAL REQUIREMENTS	
2.01	Categories of E	vents	
	In many types of	f race, ranging from trans-oceanic sailed under adverse	**
	conditions to sho	ort-course day races sailed in protected waters, seven	
	categories are es	tablished, to provide for differences in the minimum	
	standards of safe	ety and accommodation required for such varying	
	circumstances:		
2.01.3	Category 2		
	Races of extende	d duration along or not far removed from shorelines or in	MoMu,2
	large unprotected	d bays or lakes, where a high degree of self-sufficiency is	
	required of the ya	achts.	
2.02	Inspection		
	A yacht may be i	nspected at any time. If she does not comply with these	**
	Special Regulatio	ns her entry may be rejected, or she will be liable to	
	disqualification or	r such other penalty as may be prescribed by the national	
	authority or the r		
2.03	General Requir	ements	
2.03.1	All equipment rec	quired by Special Regulations shall:-	
a)	function properly		**
b)		ked, cleaned and serviced	**
c)		be stowed in conditions in which deterioration is minimised	**
d)	be readily access		**
e)	•	and capacity suitable and adequate for the intended use	**
,	and size of the ya		
	/-		

2.03.2 a)	Heavy items: ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks, toolboxes and anchors and chain shall be securely fastened	**
c)	heavy items for which fixing is not specified in Special Regulations shall be permanently installed or securely fastened, as appropriate	**
2.03.3	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the	**
	International Regulations for Preventing Collision at Sea, (Part C and	
	Technical Annex 1). All yachts shall exhibit sidelights and a sternlight at the	
SECTIO	required times. N 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT	
3.01	Strength of Build, Ballast and Rig	
0101	Yachts shall be strongly built, watertight and, particularly with regard to	**
	hulls, decks and cabin trunks capable of withstanding solid water and	
	knockdowns. They must be properly rigged and ballasted, be fully	
	seaworthy and must meet the standards set forth herein. Shrouds shall	
	never be disconnected.	
3.02 3.02.1	Watertight Integrity of a Hull	**
5.02.1	A hull, including, deck, coach roof, windows, hatches and all other parts, shall form an integral, essentially watertight unit and any openings in it	
	shall be capable of being immediately secured to maintain this integrity.	
3.02.2	Centreboard and daggerboard trunks and the like shall not open into the	**
	interior of a hull except via a watertight inspection/maintenance hatch of	
	which the opening shall be entirely above the waterline of the yacht	
	floating level in normal trim.	
3.02.3	A canting keel pivot shall be completely contained within a watertight	**
	enclosure which shall comply with OSR 3.02.2. Access points in the	
	watertight enclosure for control and actuation systems or any other purpose shall comply with OSR 3.02.1.	
3.02.4	Moveable ballast systems shall be fitted with a manual control and	**
010211	actuation secondary system which shall be capable of controlling the full	
	sailing load of the keel in the event of failure of the primary system. Such	
	failures would include electrical and hydraulic failure and mechanical failure	
	of the components and the structure to which it mounts. The system must	
	be capable of being operational quickly and shall be operable at any angle	
	of heel. It would be desirable if this system was capable of securing the keel on the centreline.	
3.03	Hull Construction Standards (Scantlings)	MoMu0,1,2
3.03.4	A multihull shall comply with appendix M to these OSR.	Extract File Only
		Mu0,1,2
3.05	Stability and Flotation - Multihulls	Mu0,1,2,3,4
	Attention is drawn to ISO 12217-2.	<i>Mu0,1,2,3,4</i>
3.05.1	Adequate watertight bulkheads and compartments (which may include permanently installed flotation material) in each hull shall be provided to	Mu0,1,2,3,4
	ensure that a multihull is effectively unsinkable and capable of floating in a	
	stable position with at least half the length of one hull flooded. (see OSR	
	3.13.2).	
3.05.2	Multihulls built on or after Jan 1999 shall in every hull without	Mu0,1,2,3,4
	accommodation be divided at intervals of not more than 4m (13ft 3") by	
	one or more transverse watertight bulkheads	
3.05.3	A yacht shall be designed and built to resist capsize.	Mu0,1,2,3,4
3.07	Exits and Escape Hatches - Multihulls	Mu0,1,2,3,4
3.07.1	Exits In a multihull of 8m (26.2ft) LOA and greater, each hull which contains	Mu0 1 2 2 4
a)	accommodation shall have at least two exits.	Mu0,1,2,3,4
b)	In a multihull of less than 8m (26.2ft) LOA each hull which contains	Mu0,1,2,3
-,	accommodation shall have at least two exits.	·····

3.07.2	Escape Hatches, Underside Clipping Points & Handholds	
a)	In a multihull of 12m (39.4ft) LOA and greater each hull which contains accommodation shall:-	Mu0,1,2,3,4
i	have an escape hatch for access to and from the hull in the event of an inversion;	Mu0,1,2,3,4
ii	when first launched on or after January 2003 have a minimum clearance diameter through each escape hatch of 450mm or when an escape hatch is not circular, sufficient clearance to allow a crew member to pass through fully clothed;	Mu0,1,2,3,4
iii	when first launched prior to January 2003, if possible have each escape hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);	Mu0,1,2,3,4
iv v	when the yacht is inverted have each escape hatch above the waterline; when first launched on or after January 2001 have each escape hatch at or near the midships station;	Mu0,1,2,3,4 Mu0,1,2,3,4
vi	in a catamaran first launched on or after January 2003 have each escape hatch on the side nearest the vessel's central axis.	Mu0,1,2,3,4
b)	A trimaran of 12m (39.4ft) LOA and greater first launched on or after 1/03 shall have at least two escape hatches in compliance with the dimensions in OSR 3.07.2(a) (ii)	Mu0,1,2,3,4
c)	Each escape hatch must have been opened both from inside and outside within 6 months prior to an intended race	Mu0,1,2,3,4
d)	A multihull shall have on the underside appropriate handholds/clipping points sufficient for all crew (on a trimaran these shall be around the central hull).	Mu0,1,2,3,4
e)	A catamaran first launched on or after 1/03 with a central nacelle shall have on the underside around the central nacelle, handholds of sufficient	Mu0,1,2,3,4
f)	capacity to enable all persons on board to hold on and/or clip on securely In a catamaran with a central nacelle, it is recommended that each hull has an emergency refuge, accessible via a special hatch in the side of the hull nearest the vessel's central axis, which hatch may be opened and closed from the inside and extended	Mu0,1,2,3,4
3.07.3	<i>from the inside and outside</i> A multihull of less than 12m (39.4ft) LOA shall either have escape hatches in compliance with OSR 3.07.2 (a)(b) and (c)or shall comply with OSR 3.07.3 (a) and (b):	Mu2,3,4
a)	each hull which contains accommodation shall have, for the purpose of cutting an escape hatch, appropriate tools kept ready for instant use adjacent to the intended cutting site. Each tool shall be secured to the vessel by a line and a clip, and	Mu2,3,4
b)	in each hull at 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	Mu2,3,4
3.08	Hatches & Companionways	
3.08.1	No hatch forward of the maximum beam station, other than a hatch in the side of a coachroof, shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting ports having an area of less than 0.071m2 (110 sq in)).	**
3.08.2	A hatch fitted forward of the maximum beam station, located on the side of the coachroof, opening into the interior of the boat ,and of area greater than 0.071m2 shall comply with ISO12216 design category A and be clearly labelled and used in accordance with the following instruction: "NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1	**
3.08.3	A hatch shall be:	
b) c)	permanently attached capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion)	** **
3.08.4 a)	A companionway hatch shall: be fitted with a strong securing arrangement which shall be operable from	**
b)	the exterior and interior including when the yacht is inverted have any blocking devices:	**

i	capable of being retained in position with the hatch open or shut	**
ii	whether or not in position in the hatchway, secured to the yacht (e.g. by	**
	lanyard) for the duration of the race, to prevent their being lost overboard	
iii	permit exit in the event of inversion	**
3.08.7		
5.00.7	A companionway hatch extending below the local sheerline and shall	Mu0,1,2,3,4
	comply with either (a) or (b):	
a)	be capable of being blocked off up to the level of the local sheerline, whilst	Mu0,1,2,3,4
	giving access to the interior with the blocking devices (e.g. washboards) in	
	place with a minimum sill height of 300 mm.	
b)		
i	A companionway hatch shall be in compliance with ISO 11812 – Watertight	Mu0,1,2,3
•	cockpits and quick-draining cockpits to design category A	140,1,2,5
2 00		
3.09	Cockpits - Attention is Drawn to ISO 11812	**
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all	**
	angles of heel and permanently incorporated as an integral part of the hull.	
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull	**
	must be capable of being strongly and rigidly secured	
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See	**
	OSR 3.09.8 for cockpit drain minimum sizes	
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first	**
0.00011	launched before 1/03, at least 2% L above LWL)	
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the	**
5.09.5		
2 00 0	purposes of OSR 3.09	**
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less	**
	in area than 50% maximum cockpit depth x maximum cockpit width.	
3.09.7	Cockpit Volume	
i)	earliest of age or series date before April 1992	
-	the total volume of all cockpits below lowest coamings shall not exceed 9%	Extract File Only
	(LWL x maximum beam x freeboard abreast the cockpit).	MoMu2,3,4
ii)	earliest of age or series date April 1992 and after	
")	as above for the appropriate category except that "lowest coamings" shall	Extract File Only **
	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	
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard	Extract File Only **
	abreast the cockpit, use the IMS terms L, B and FA.	
3.09.8		
	See OSR 3.09.1. Cockpit drain cross section area (after allowance for	
	screens if fitted) shall be:-	
a)	in yachts with earliest of age or series date before 1/72 or in any yacht	**
,	under 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch)	
	unobstructed openings or equivalent	
b)	in yachts with earliest of age or series date 1/72 and later - at least that of	**
0)	4 x 20mm diameter (3/4 inch) unobstructed openings or equivalent	
2 1 0		
3.10	Sea Cocks or Valves	**
		~ ~
	Sea cocks or valves shall be permanently installed on all through-hull	
	openings below the waterline except integral deck scuppers, speed	
	openings below the waterline except integral deck scuppers, speed indicators, depth finders and the like, however a means of closing such	
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3.11 3.12	openings below the waterline except integral deck scuppers, speed indicators, depth finders and the like, however a means of closing such openings shall be provided. Sheet Winches Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck. Mast Step	
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	hull.	
3.13.2	Any required watertight bulkhead shall be strongly built to take a full head	Mo0Mu0,1,2,3,4
	of water pressure without allowing any leakage into the adjacent	
	compartment.	
3.14	Pulpits, Stanchions, Lifelines	
3.14.1	When due to the particular design of a multihull it is impractical to precisely	Mu0,1,2,3,4,
	follow Special Regulations regarding pulpits, stanchions, lifelines, the	
	regulations for monohulls shall be followed as closely as possible with the	
	aim of minimising the risk of people falling overboard.	
3.14.2	Lifelines required in Special Regulations shall be "taut".	**
a)	As a guide, when a deflecting force of 50 N (5.1 kgf, 11.2 lbf) is applied to	**
	a lifeline midway between supports, the lifeline should not deflect more	
	than 50 mm.	
3.14.3	The following shall be provided:	**
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall	**
	form an effectively continuous barrier around a working deck for man-	
	overboard prevention. Lifelines shall be permanently supported at intervals	
	of not more than 2.20m (86.6") and shall not pass outboard of supporting	
d)	stanchions	**
d)	upper rails of pulpits at no less height above the working deck than the	-11-
\sim	upper lifelines as in Table 7. Openable upper rails in bow pulpits shall be secured shut whilst racing	**
e) f)	Pulpits and stanchions shall be permanently installed. When there are	**
1)	sockets or studs, these shall be through-bolted, bonded or welded. The	
	pulpit(s) and/or stanchions fitted to these shall be mechanically retained	
	without the help of the life-lines. Without sockets or studs, pulpits and/or	
	stanchions shall be through-bolted, bonded or welded.	
g)	The bases of pulpits and stanchions shall not be further inboard from the	**
57	edge of the appropriate working deck than 5% of maximum beam or 150	
	mm (6 in), whichever is greater.	
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a	**
	working deck. For the purpose of this rule the base shall be taken to	
	include a sleeve or socket into which the tube is fitted but shall exclude a	
	baseplate which carries fixings into the deck or hull.	
i)	Provided the complete lifeline enclosure is supported by stanchions and	**
	pulpit bases effectively within the working deck, lifeline terminals and	
	support struts may be fixed to a hull aft of the working deck	
j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass	**
	through, adequately braced stanchions set inside and overlapping the bow	
	pulpit, provided that the gap between the upper lifeline and the bow pulpit	
	does not exceed 150 mm (6 in).	**
k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of	
	a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-	
	aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c)	
	shall not modify tension in the lifeline.	
I)	Stanchions shall be straight and vertical except that:-	**
i	within the first 50 mm (2 in) 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 in), and	
ii	stanchions may be angled to not more than 10 degrees from vertical at any	**
	point above 50 mm (2 in) from the deck.	
m)	It is strongly recommended that designs also comply to ISO 15085	**
3.14.4	Special Requirements for Pulpits, Stanchions, Lifelines on	Mu0,1,2,3,4
	Multihulls	
``	The following shall be provided:-	M 0 4 0 0 4
a)	on a trimaran - a bow pulpit on the main hull, with lifelines around the	Mu0,1,2,3,4
	main hull supported on stanchions. The lifelines may be interrupted where	
	there are nets or crossbeam wings outboard of the main hull	

b)	on a trimaran - where a net joins the base of a bow pulpit on the main hull, Mu0,1,2,3,4 an additional lifeline from the top of the pulpit to the forward crossbeam at				
c)	or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose).				
d)	on a catama lifelines to fo for man-over bow and ster	ran - lifelines from b orm an effectively co rboard prevention. T rn pulpits or superst ameter 6mm) shall	bow to stern on each hull and transverse ontinuous barrier around the working area The transverse lifelines shall be attached to tructure. A webbing, strop or rope be rove zig-zag between the transverse	Mu0,1,2,3	,4
3.14.5	Lifeline Hei		nings, Number of Lifelines	**	
	TABLE 7 LOA	earliest of age/seriesdate	minimum requirements	**	Category
	under 8.5 m(28 ft)	before January 1992	taut single lifeline at a height of no less that mm (18 in) above the working deck. No ve opening shall exceed 560 mm (22 in).		**
	under 8.5 m(28 ft)	January 1992 and after	as for under 8.5 m(28 ft) in table 7 above, that when an intermediate lifeline is fitted i opening shall exceed 380 mm (15 in).	•	**
	8.5 m (28 ft) and over	before January 1993	taut double lifeline with upper lifeline at a l no less than 600 mm (24 in) above the wo deck. No vertical opening shall exceed 560	rking	**
	8.5 m (28 ft)and over	January 1993 and after	in) as 8.5 m (28 ft) and over in Table 7 above that no vertical opening shall exceed 380 n in).		**
	all	all	on yachts with intermediate lifelines the int line shall be not less than 230 mm (9 in) al working deck.		**
3.14.6			, Required Materials, Specifications	**	
a)	Lifelines shal - strand	led stainless steel w	ire or	1. J.	
	- Single	-braided High Modu	Ilus Polyethylene (HMPE)		
b)		Spectra® or equivation of the sector of the	, ,	**	
b) c)		•	ied in table 8 below. Incoated and used without close-fitting	**	
-)	sleeving, how	wever, temporary sl	eeving may be fitted provided it is regularly		
<i>-</i> (1)	removed for	•	de 21 <i>C</i> is recommended	**	
d) e)			ade 316 is recommended. ra®) is used, it shall be spliced in	**	
<i>C)</i>			rer's recommended procedures.		
f)	•		may be used to secure lifelines provided	**	
			d 100 mm (4 in). This lanyard shall be		
g)		ually at a minimum	Its, fixtures and lanyards shall comprise a	**	
9)			has at all points at least the breaking		
	-	he required lifeline	wire.	. de ste	
	TABLE 8 LOA		minimum wire or rope diameter	**	
	under 8.5 n	n (28ft)	3 mm (1/8 in)		
	8.5m - 13 n	. ,	4 mm (5/32 in)		
• • • -	over 13 m (5 mm (3/16 in)		
3.14.7		inchions, Lifelines	s - Limitations on Materials	**	
	TABLE 9 Earliest of A	Age or Series	detail		

	Date	
	before January 1987 carbon fibre is not recommended in stanchio	ns pulpits and
	, lifelines.	
	January 1987 and after stanchions, pulpits and lifelines shall not be r	made of carbon fibre.
3.15 3.15.1	Multihull Nets or Trampolines The word "net" is interchangeable with the word "trampoline"	
5.15.1	A net shall be:-	Mu0,1,2,3,4 Mu0.1.2.3.4
a)	essentially horizontal	Mu0,1,2,3,4
b)	made from durable woven webbing, water permeable fabric, or mesh with	Mu0,1,2,3,4
	openings not larger than 5.08cm (2 inches) in any dimension. Attachment	
	points shall be planned to avoid chafe. The junction between a net and a	
c)	yacht shall present no risk of foot trapping solidly fixed at regular intervals on transverse and longitudinal support lines	Mu0,1,2,3,4
cy	and shall be fine-stitched to a bolt rope	100/1/2/0/1
d)	able to carry the full weight of the crew either in normal working conditions	Mu0,1,2,3,4
,	at sea or in case of capsize when the yacht is inverted.	
e)	It is recommended that lines used to tie the nets should be individually tied and not continuously connected to more than four attachment points per	Mu0,1,2,3,4
	connecting line	
3.15.2	Trimarans with Double Crossbeams	
a)	A trimaran with double crossbeams shall have nets on each side covering:-	
b)	the rectangles formed by the crossbeams, central hull and outriggers	Mu0,1,2,3,4
c)	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	Mu0,1,2,3,4
	central hull	
d)	the triangles formed by the aftermost part of the cockpit or steering	Mu0,1,2,3,4
	position (whichever is furthest aft), the mid-point of each after crossbeam,	
2)	and the intersection of the crossbeam and the central hull; except that:-	
e)	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	Mu0,1,2,3,4
	requirements in Table 7	
3.15.3	Trimarans with Single Crossbeams	
a)	A trimaran with a single crossbeam shall have nets between the central hull	Mu0,1,2,3,4
b)	and each outrigger:- on each side between two straight lines from the intersection of the	
b)	crossbeam and the outrigger, respectively to the aft end of the pulpit on	Mu0,1,2,3,4
	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	
a)	On a catamaran the total net surface shall be limited: laterally by the hulls; and	Mu0,1,2,3,4
b)	longitudinally by transverse stations through the forestay base, and the	Mu0,1,2,3,4
-,	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	MaMuO 1 2
3.18.1 3.19	A toilet, permanently installed Bunks	MoMu0,1,2
3.19.2	Bunks, permanently installed	**
3.20	Cooking Facilities	
3.20.1	A cooking stove, permanently installed or securely fastened with safe	MoMu0,1,2,3
	accessible fuel shutoff control and capable of being safely operated in a	
3.21	seaway. Drinking Water Tanks & Drinking Water	MoMu0,1,2,3
3.21.1	Drinking Water Tanks	MoMu0,1,2,3
a)	A yacht shall have a permanently installed delivery pump and water	MoMu0,1,2,3
2 24 2	tank(s):	MaM-0 1 2 2
3.21.3 a)	Emergency Drinking Water At least 9 litres (2 UK gallons, 2.4 US gallons) of drinking water for	MoMu0,1,2,3 MoMu1,2,3
uj	emergency use shall be provided in a dedicated and sealed container or	

	container(s)	
3.22		**
	Adequate hand holds shall be fitted below deck so that crew members may move about safely at sea.	<u>ተ</u> ተ
	A hand hold should be capable of withstanding without rupture a side force	
	of 1500N - attention is drawn to ISO 15085.	
3.23		**
3.23.	1 No bilge pump may discharge into a cockpit unless that cockpit opens aft to the sea.	1, 1, 1,
3.23.		**
3.23.	5 1 1 7	**
3.23.	and for clearing out debris 4 Unless permanently installed, each bilge pump handle shall be provided	**
5.25.	with a lanyard or catch or similar device to prevent accidental loss	
3.23.	5 The following shall be provided:	
b)	one permanently installed manual bilge pump either above or below deck.	Mu0,1,2
	The pump shall be operable with all cockpit seats, hatches and companionways shut and shall have a permanently installed discharge	
	pipe.	
c)	multihulls shall have provision to pump out all watertight compartments	Mu0,1,2,3,4
f)	(except those filled with impermeable buoyancy). two buckets of stout construction each with at least 9 litres (2 UK gallons,	**
')	2.4 US gallons) capacity. Each bucket to have a lanyard.	
3.24	Compass	
3.24.	5 1	**
a)	a marine magnetic compass, independent of any power supply, permanently installed and correctly adjusted with deviation card, and	
b)	a magnetic compass independent of any power supply, capable of being	MoMu0,1,2,3
	used as a steering compass which may be hand-held	
3.25	Halyards. No mast shall have less than two halyards, each capable of hoisting a sail.	**
3.27	Navigation Lights (see OSR 2.03.3)	
3.27.	5 5 7 7	**
3.27.	or the heeling of the yacht. 2 Navigation lights shall not be mounted below deck level and should be at	**
•	no less height than immediately under the upper lifeline.	
3.27.	5 5 7	
	TABLE 11LOAGuide to required minimum power rating for an element	ectric hulh in a
	navigation light	
	under 12 m (39.4 ft) 10 W	
	<i>12 m (39.4 ft) and 25 W above</i>	
3.27.		MoMu0,1,2,3
	specifications as the navigation lights above, with a separable power	
	source, and wiring or supply system essentially separate from that used for	
3.27.	the normal navigation lights 5 spare bulbs for navigation lights shall be carried, or for lights not	**
-	dependent on bulbs, appropriate spares.	
3.28		**
3.28 a)	.1 Propulsion Engines Engines and associated systems shall be installed in accordance with their	**
ω,	manufacturers' guidelines and shall be of a type, strength, capacity, and	
	installation suitable for the size and intended use of the yacht.	**
b)	An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel	**
	tank(s); be securely covered; and have adequate protection from the	
	effects of heavy weather.	
c)	A propulsion engine required by Special Regulations shall provide a	MoMu0,1,2,3

	minimum speed in knots of (1.8 x square root of LWL in metres) or (square	
f)	root of LWL in feet) Boats of less than 12.0 m hull length may be provided with an inboard propulsion engine, or an outboard engine together with permanently	Mu1,2,3
	installed fuel supply systems and fuel tank(s) may be used as an alternative.	
3.28.2	Generator	
	A separate generator for electricity is optional. However, when a separate generator is carried it shall be permanently installed, securely covered, and shall have permanently installed exhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather.	**
3.28.3	Fuel Systems	
a)	Each fuel tank provided with a shutoff valve. Except for permanently installed linings or liners, a flexible tank is not permitted as a fuel tank.	MoMu0,1,2,3
b)	The propulsion engine shall have a minimum amount of fuel which may be specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours	MoMu0,1,2,3
3.28.4	Battery Systems	MaM. 0 1 2 2
a)	When an electric starter is the only method for starting the engine, the yacht shall have a separate battery, the primary purpose of which is to start the engine	MoMu0,1,2,3
b)	All rechargeable batteries on board shall be of the sealed type from which	MoMu0,1,2,3
,	liquid electrolyte cannot escape. Other types of battery installed on board	
	at 1/12 may continue in use for the remainder of their service lives.	
3.29	Communications Equipment, EPFS (Electronic Position-Fixing	**
	System), Radar, AIS Provision of GMDSS and DSC is unlikely to be mandatory for small craft	МоМи0,1,2,3
	during the term of the present Special Regulations However it is	1101100/1/2/2/0
	recommended that persons in charge include these facilities when installing	
	new equipment.	
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed satcom terminal), and	MoMu0,1,2,3
i	an emergency antenna when the regular antenna depends upon the mast.	MoMu0,1,2,3
b)	When the marine radio transceiver is VHF:	MoMu0,1,2,2
i ii	it shall have a rated output power of 25W it shall have a masthead antenna, and co-axial feeder cable with not more	MoMu0,1,2,3 MoMu0,1,2,3
	than 40% power loss	
iii	the following types and lengths of co-axial feeder cable will meet the	МоМи0,1,2,3
	requirements of OSR 3.29.1 (b)(ii): (a) up to 15m (50ft) - type RG8X ("mini 8"); (b) 15-28m (50-90ft) - type RG8U; (c) 28-43m (90-140ft) - type	
	9913F (uses conventional connectors, available from US supplier Belden);	
	(d) 43-70m) 140-230ft - type LMR600 (uses special connectors, available	
	from US supplier Times Microwave).	
iv	it should include channel 72 (an international ship-ship channel which, by	МоМи0,1,2,3
	common use, has become widely accepted as primary choice for ocean	
e)	<i>racing yachts anywhere in the world)</i> A hand-held marine VHF transceiver, watertight or with a waterproof cover.	MoMu1,2,3,4
e)	When not in use to be stowed in a grab bag or emergency container (see	100001,2,3,4
	OSR 4.21)	
f)	Independent of a main radio transceiver, a radio receiver capable of	**
	receiving weather bulletins	
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
n) <i>3.29.2</i>	An AIS Transponder Yachts are reminded that no reflector, active or passive, is a guarantee of	MoMu1,2
5.29.2	detection or tracking by a vessel using radar.	
a)	The attention of persons in charge is drawn to legislation in force or	**

	imminant affecting the territorial case of some countries in which the	
	imminent affecting the territorial seas of some countries in which the carriage of an AIS set is or will be mandatory for certain vessels including	
	relatively small craft.	
SECTIO	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
	ter & fuel see OSR 3.21 and OSR 3.28)	
4.01	Sail Letters & Numbers	
4.01.1	Yachts which are not in an ISAF International Class or Recognized Class	**
	shall comply with RRS 77 and Appendix G as closely as possible, except	
4.04.0	that sail numbers allotted by a State authority are acceptable.	aleste
4.01.2	Sail numbers and letters of the size carried on the mainsail must be	**
4.02	displayed by alternative means when none of the numbered sails is set. Hull marking (colour blaze)	
4.02 4.02.1	To assist in SAR location:-	Mo0,1,Mu0,1,2,3,4
4.02.2	Multihulls shall show on the underside, where they can be seen when	Mu0,1,2,3,4
110212	inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange,	140,1,2,5,1
	or yellow) of at least 1m ²	
4.03	Soft Wood Plugs	
	Soft wood plugs, tapered and of the appropriate size, shall be attached or	**
	stowed adjacent to the appropriate fitting for every through-hull opening.	
4.04	Jackstays, Clipping Points and Static Safety Lines	
4.04.1	The following shall be provided:	M M 0 4 2 2
a)	Jackstays:-	MoMu0,1,2,3
i	shall be provided- attached to through-bolted or welded deck plates or other suitable and	MoMu0,1,2,3
I	strong anchorage fitted on deck, port and starboard of the yacht's centre	1101100,1,2,5
	line to provide secure attachments for safety harness:-	
ii	comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16	MoMu0,1,2,3
	in), high modulus polyethylene (such as Dyneema/Spectra) rope or	
	webbing of equivalent strength;	
iii	which, when made from stainless steel wire shall be uncoated and used	MoMu0,1,2,3
	without any sleeving;	14-14-0122
iv	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;	МоМи0,1,2,3
V	at least two of which should be fitted on the underside of a multihull in	Mu0,1,2,3
v	case of inversion.	1100,1,2,5
4.04.2	Clipping Points:-	
	shall be provided-	
a)	attached to through-bolted or welded deck plates or other suitable and	MoMu0,1,2,3
	strong anchorage points adjacent to stations such as the helm, sheet	
	winches and masts, where crew members work for long periods:-	
b)	which, together with jackstays and static safety lines shall enable a crew	MoMu0,1,2,3
i	member- to clip on before coming on deck and unclip after going below;	MoMu0,1,2,3
ii	whilst continuously clipped on, to move readily between the working areas	MoMu0,1,2,3 MoMu0,1,2,3
	on deck and the cockpit(s) with the minimum of clipping and unclipping	1101100,1,2,5
	operations.	
c)	The provision of clipping points shall enable two-thirds of the crew to be	MoMu0,1,2,3
	simultaneously clipped on without depending on jackstays	
d)	In a trimaran with a rudder on the outrigger, adequate clipping points shall	Mu0,1,2,3
	be provided that are not part of the deck gear or the steering mechanism,	
	in order that the steering mechanism can be reached by a crew member	
e)	whilst clipped on. <i>Warning - U-bolts as clipping points - see OSR 5.02.1(a)</i>	
<i>e)</i> 4.05	Fire Extinguishers	
	Shall be provided as follows:	
4.05.1	Fire extinguishers, at least two, readily accessible in suitable and different	**
	parts of the yacht	
4.05.2	Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or	MoMu0,1,2,3
	equivalent	

4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.05.4 4.06	A fire blanket adjacent to every cooking device with an open flame Anchor(s)	
4.06 .1	An anchor or anchors shall be carried according to the table below:	**
a)	The following anchors shall be provided	
i	For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together	MoMu1,2,3
•	with a suitable combination of chain and rope, all ready for immediate use	11011012/2/0
ii	For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a	MoMu1,2,3
	suitable combination of chain and rope, all ready for immediate use	
4.07	Flashlight(s) and Searchlight(s)	
4.07.1	The following shall be provided:-	
a)	A watertight, high-powered searchlight, suitable for searching for a person	**
	overboard at night and for collision avoidance with spare batteries and	
	bulbs, and	ч ч
b)	a watertight flashlight with spare batteries and bulb	** **
4.08 4.08.1	First Aid Manual and First Aid Kit A suitable First Aid Manual shall be provided	**
4.00.1	In the absence of a National Authority's requirement, the latest edition of	**
	one of the following is recommended:-	
<i>b)</i>	First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard	MoMu2,3,4
27	Coles Nautical, London	1101102,0071
<i>c)</i>	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	**
,	Distance Assistance BP33 F-La Baule, cedex, France.	
<i>d</i>)	'PAN-PAN medico a bordo' in Italian edited by Umberto Verna.	MoMu2,3,4
	www.panpan.it	
<i>e)</i>	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr	**
	Campbell Mackenzie www.msos.org.uk	
4.08.2	A First Aid Kit shall be provided	**
4.08.3	The contents and storage of the First Aid Kit should reflect the guidelines	**
	of the Manual carried, the likely conditions and duration of the passage,	
4.09	<i>and the number of people aboard the yacht.</i> Foghorn	
U <i>3</i>	A foghorn shall be provided	**
4.10	Radar Reflector	
4.10.1	A passive Radar Reflector (that is, a Radar Reflector without any power)	**
	shall be provided	
a)	If a radar reflector is :	**
i	octahedral with triangular plates making up each pocket it must have a	**
	minimum diagonal measurement of 456 mm (18in).	
ii	octahederal with circular sector plates making up each pocket it must have	**
	a minimum diameter of 304mm (12in).	**
iii	not octahedral it must have a documented RCS (radar cross-section) of not	ጥጥ
	less than 10 m2 at 0° elevation and be capable of performance around 360° in azimuth.	
	The minimum effective height above water is 4.0 m (13 ft).	**
<i>b)</i>	The passive and active devices referred to in these notes and in 4.10.1 and	**
27	4.10.2 above are primarily intended for use in the X (9GHz) band	
4.10.2	The most effective radar response from a yacht may be provided by an	MoMu1,2,3,4
	RTE (Radar Target Enhancer) which may be on board in addition to the	
	required passive reflector. An RTE should conform to ISO 8729-2:2009. An	
	RTE is strongly recommended.	
b)	The display of a passive reflector or the operation of an RTE is for the	**
	person in charge to decide according to prevailing conditions.	**
4.10.3	When available, a passive radar reflector in compliance with ISO8729-	**
	1:2010 will offer improved performance over earlier models and has a size	
	typified by a cylinder of not more than weight 5kg, height 750mm and diameter 300mm.	
4.10.4	S (3GHz) band radar is often used by ships in bad weather to complement	**
1.10.7	X (9GHz) band radar. On S (3GHz) band a passive reflector offers about	
	1/10 the response obtained on the X (9GHz) band. Unless specifically	
	, , , , , , , , , , , , , , , , , , , ,	

	designed to operate in the S(3GHz) band, an RTE will provide no response	
	at all.	
4.11 4.11.1	Navigation Equipment Charts	
7.11.1	Navigational charts (not solely electronic), light list and chart plotting	**
	equipment shall be provided	
4.12	Safety Equipment Location Chart	
	A safety equipment location chart in durable waterproof material shall be	**
	displayed in the main accommodation where it can best be seen, clearly	
	marked with the location of principal items of safety equipment.	
4.13	Echo Sounder or Lead Line	
4.13.1 4.14	An echo sounder or lead line shall be provided Speedometer or Distance Measuring Instrument (log)	MoMu1,2,3,4
4.14	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	101100,1,2,3
4.15.1	Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an	MoMu0,1,2,3
	unbreakable metal tiller, an emergency tiller capable of being fitted to the	
	rudder stock;	
b)	crews must be aware of alternative methods of steering the yacht in any	MoMu0,1,2,3
	sea condition in the event of rudder loss. At least one method must have	
	been proven to work on board the yacht. An inspector may require that this method be demonstrated.	
4.16	Tools and Spare Parts	
•	Tools and spare parts, including effective means to quickly disconnect or	**
	sever the standing rigging from the hull shall be provided.	
4.17	Yacht's name	
	Yacht's name shall be on miscellaneous buoyant equipment, such as	**
4.10	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings,	**
	liferafts and lifejackets. See OSRs 5.04, 5.08.	
4.19	EPIRBs	
4.19.1	A 406 MHz EPIRB shall be provided	MoMu1,2
<i>b)</i>	It is recommended that a 406 MHz EPIRB should include an internal GPS,	МоМи0,1,2
	and also a 121.5MHz transmitter for local homing.	
c)	Every 406 MHz EPIRB shall be properly registered with the appropriate	MoMu0,1,2
-1	authority.	MaMuQ 1 2
d)	Every ship's 406 MHz EPIRB shall be water and manually activated. EPIRBs should be tested in accordance with manufacturer's instructions	MoMu0,1,2 <i>MoMu0,1,2</i>
e)	when first commissioned and then at least annually.	1101100,1,2
f)	A list of registration numbers of 406 EPIRBs should be notified to event	МоМи0,1,2
,	organizers and kept available for immediate use.	, ,
<i>g)</i>	Consideration should be given to the provision of a locator device (e.g. an	МоМи0,1,2
	"Argos" beacon) operating on non - SAR frequencies, to aid salvage if a	
	yacht is abandoned.	
h)	Beacons with only 121.5MHz are no longer recommended for distress	МоМи0,1,2
	alerting. Satellite processing of 121.5 MHz is being phased out. 121.5MHz will continue to be used for local homing by on-board D/F systems and for	
	local homing by SAR units. Type "E" EPIRBs are no longer supported and	
	should be replaced immediately.	
4.20	Liferafts	MoMu0,1,2
4.20.1	Liferaft Construction and Packed Equipment	
4.20.2	Liferaft(s) shall be provided capable of carrying the whole crew when each	MoMu1,2
-	liferaft shall comply with either:-	
a)	Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and	Extract File MoMu1,2
	may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS	
	"A" pack or	

b)	for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or	MoMu1,2
c)	OSR Appendix A part II (ISAF) when, unless otherwise specified by a race	MoMu1,2
d)	organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at	MoMu1,2
i	least a Pack 2 (<24h) and- shall have a semi-rigid boarding ramp, and	MoMu1,2
ii	shall be so arranged that any high-pressure hose shall not impede the	MoMu1,2
	boarding process, and	
iii	shall have a topping-up means provided for any inflatable boarding ramp, and	MoMu1,2
iv	when the liferaft is designed with a single ballast pocket this shall be	MoMu1,2
	accepted provided the liferaft otherwise complies with ISO 9650 and meets	
V	a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft	MoMu1,2
v	certificate.	1101111,2
4.20.3	Liferaft Packing and Stowage	MoMu0,1,2
	A Liferaft shall be either:-	MoMu0,1,2
a)	packed in a transportable rigid container or canister and stowed on the	MoMu0,1,2
b)	working deck or in the cockpit, or:-	MoMu0,1,2
b)	packed in a transportable rigid container or canister or in a valise and stowed in a purpose-built rigid compartment containing liferaft(s) only and	MOMU0,1,2
	opening into or adjacent to the cockpit or working deck, or through a	
	transom, provided that:-	
i	each compartment is watertight or self-draining (self-draining	MoMu0,1,2
	compartments will be counted as part of the cockpit volume except when	
	entirely above working deck level or when draining independently	
ii	overboard from a transom stowage - see OSR 3.09) and- the cover of each compartment is capable of being easily opened under	MoMu0,1,2
11	water pressure, and-	100000,1,2
iii	the compartment is designed and built to allow a liferaft to be removed	MoMu0,1,2
	and launched quickly and easily, or-	
iv	in a yacht with age or series date before June 2001, a liferaft may be	MoMu1,2
	packed in a valise not exceeding 40kg securely stowed below deck	
V	adjacent to a companionway. Liferaft stowage on a multihull shall be such that each liferaft may be	Mu0,1,2
V	readily removed and launched whether or not the yacht is inverted.	Mu0,1,2
c)	The end of each liferaft painter should be permanently made fast to a	MoMu0,1,2
,	strong point on board the yacht.	
4.20.4	Liferaft Launching	MoMu0,1,2
a)	Each raft shall be capable of being got to the lifelines or launched within 15	MoMu0,1,2
b)	seconds. <i>Each liferaft of more than 40kg weight should be stowed in such a way</i>	МоМи0,1,2
DJ	that the liferaft can be dragged or slid into the sea without significant	1101100,1,2
	lifting	
4.20.5	Liferaft Servicing and Inspection	MoMu0,1,2
	IMPORTANT NOTICE Recent evidence has shown that packaged liferafts	МоМи0,1,2
	are vulnerable to serious damage when dropped (e.g. from a boat onto a	
	marina pontoon) or when subjected to the weight of a crew member or	
	heavy object (e.g. an anchor). Damage can be caused internally by the weight of the heavy steel CO2 bottle abrading or splitting neighbouring	
	layers of buoyancy tube material. ISAF has instituted an investigation into	
	this effect and as an interim measure requires that every valise-packed	
	liferaft shall have an annual certificate of servicing. A liferaft should be	
	taken for servicing if there is any sign of damage or deterioration (including	
	on the underside of the pack). Persons in charge should insist on great	
	care in handling liferafts and apply the rules NO STEP and DO NOT DROP	
<i>2</i>)	UNLESS LAUNCHING INTO THE SEA.	
a)	Certificates or copies, of servicing and/or inspection shall be kept on board	MoMu0,1,2

the yacht. Every SOLAS liferaft and every valise-packed liferaft shall have a valid annual certificate of new or serviced status from the manufacturer or his approved service station. A liferaft built to OSR Appendix A part I ("ORC") packed in a rigid container b) MoMu0,1,2 or canister shall either be serviced annually or may, when the manufacturer so specifies, be inspected annually (not necessarily unpacked) provided the yacht has on board written confirmation from the manufacturer's approved service station stating that the inspection was satisfactory. A liferaft built to OSR Appendix A part II ("ISAF") packed in a rigid c) MoMu1,2 container or canister shall either be serviced annually or may, when the manufacturer so specifies, have its first service no longer than 3 years after commissioning and its second service no longer than 2 years after the first. Subsequent services shall be at intervals of not more than 12 months. d) A liferaft built to ISO 9650 Part 1 Type Group A, packed in a rigid container MoMu1,2 or canister shall be serviced in accordance with the manufacturer's instructions but NOT less frequently than every three years e) A liferaft built to ISO 9650 Part 1 Type Group A packed in a valise shall be MoMu1,2 inspected annually by an approved manufacturer's agent and serviced in accordance with the manufacturer's instructions but NOT less frequently than every three years. Liferaft servicing certificates shall state the specification that the liferaft f) MoMu1,2 was built to. See OSR 4.20.2 4.21.2 **Grab Bags to Accompany Liferafts** A vacht is recommended to have for each liferaft, a grab bag with the a) MoMu0,1,2 following minimum contents. A grab bag should have inherent flotation, at least 0.1 m² area of fluorescent orange colour on the outside, should be marked with the name of the yacht, and should have a lanyard and clip. b) Note: it is not intended to duplicate in a grab bag items required by other MoMu0,1,2 OSRs to be on board the yacht - these recommendations cover only the stowage of those items 4.21.3 **Grab Bag Recommended Contents** 2 red parachute and 2 red hand flares and cyalume-type chemical light a) MoMu1,2 sticks (red flares compliant with SOLAS) watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in b) MoMu1,2 at least one of the grab bags carried by a yacht *c)* SART (Search and Rescue Transponder) in at least one of the grab bags MoMu1,2 carried by a yacht d) a combined 406MHz/121.5MHz or type "E" EPIRB (see OSR 4.19.1) in at MoMu1,2 least one of the grab bags carried by a yacht e) water in re-sealable containers or a hand-operated desalinator plus MoMu1,2 containers for water f) a watertight hand-held marine VHF transceiver plus a spare set of batteries MoMu0,1,2 g) a watertight flashlight with spare batteries and bulb MoMu0,1,2 h) dry suits or thermal protective aids or survival bags i) second sea anchor for the liferaft (not required if the liferaft has already a MoMu0,1,2 spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm j) k) two safety tin openers (if appropriate) ΜοΜυθ,1,2 first-aid kit including at least 2 tubes of sunscreen. All dressings should be MoMu0,1,2 capable of being effectively used in wet conditions. The first-aid kit should be clearly marked and re-sealable. 1) signalling mirror MoMu0,1,2 m) high-energy food (min 10 000kJ per person recommended for Cat Zero) ΜοΜυθ.1.2 nylon string, polythene bags, seasickness tablets (min 6 per person n) MoMu0,1,2

- recommended)
 watertight hand-held aviation VHF transceiver (if race area warrants)
 4.22 Lifebuoys
 - 4.22.1 The following shall be provided within reach of the helmsman and ready for
 - or **

MoMu0,1,2

ā	ı)	instant use: a lifebuoy with a self-igniting light and a drogue or a Lifesling with a self-			**	
	-	igniting light and without a drogue.			MoMu0,1,2	
L))	In addition to a) above, one lifebuoy within reach of the helmsman and ready for instant use, equipped with:			MOM	0,1,2
i i		a whistle, a drogue, a self-ignit		ndad ar ba	MoMu	
I		a pole and flag. The pole shall capable of being fully automati	• •		MoMu	0,1,2
		less than 20 seconds. It shall b	e attached to the lifebuoy w	vith 3 m (10 ft)		
		of floating line and is to be of a at least 1.8 m (6 ft) off the wa	-	at the flag will fly		
2	1.22.2	When at least two lifebuoys (a		, at least one of	MoMu	0,1,2
		them shall depend entirely on	permanent (e.g. foam) buo	yancy.		
2	1.22.3	Each inflatable lifebuoy and an extended by compressed gas)		-	**	
		accordance with its manufactur				
2	1.22.4	Each lifebuoy or lifesling shall b	be fitted with marine grade	retro-reflective	**	
	4.22.5	material (4.18). <i>It is recommended that the co</i>	lour of each lifebuov be a s	afety colour in	**	
	1.22.5	the yellow-red range.				
	1.23	Pyrotechnic and Light Signa			**	
2	1.23.1	Pyrotechnic signals shall be pro Chapter III Visual Signals and	-		ጥጥ	
		any) or if no expiry date stam	ped , not older than 4 years	Э.		
		red parachute flares LSA III 3.1	red hand flares LSA III 3.2	orange smoke LSA 3.3	A III	race category
		6	4			MoMu0,1
		4	4	2 2 2		MoMu2,3
		2	4 4	2		Mo4 Mu4
		TABLE 13	·	L		T G T
	1.24	Heaving Line) longth roadily	** **	
ć	ı)	a heaving line shall be provided accessible to cockpit.	1 15 m - 25 m (50 m - 75 m) length readily	44	
	<i>b)</i>	the "throwing sock" type is rec	ommended - see Appendix	D	**	
2	1.25	Cockpit Knife	l and securely restrained sh	all be provided	**	
		A strong, sharp knife, sheathed and securely restrained shall be provided ** readily accessible from the deck or a cockpit.				
	1.26	Storm & Heavy Weather Sa	ils			
	l.26.1 1)	Design it is strongly recommended	that persons in charge	consult their	**	
		designer and sailmaker to a	lecide the most effective	e size for storm		
		and heavy weather sails. The safe propulsion for the yack		•		
		intended as part of the raci		-		
		maxima. Smaller areas are likely to suit some yachts according to				
	1.26.2					
4		their stability and other cha				
	i)	their stability and other char High Visibility Every storm jib shall either be	of highly-visible coloured m		**	
	1)	their stability and other char High Visibility Every storm jib shall either be dayglo pink, orange or yellow)	of highly-visible coloured m or have a highly-visible colo	oured patch at	**	
	1)	their stability and other char High Visibility Every storm jib shall either be	of highly-visible coloured m or have a highly-visible colo iil (up to a maximum diame	bured patch at ter of 3m) added	**	
	1)	their stability and other chan High Visibility Every storm jib shall either be dayglo pink, orange or yellow) least 50% of the area of the sa on each side; and also that a re visible coloured patch on each	of highly-visible coloured m or have a highly-visible colo all (up to a maximum diame otating wing mast should has side. A storm sail purchase	bured patch at ter of 3m) added ave a highly- d after January	**	
ā		their stability and other chan High Visibility Every storm jib shall either be dayglo pink, orange or yellow) least 50% of the area of the sa on each side; and also that a re visible coloured patch on each 2014 shall have the material of	of highly-visible coloured m or have a highly-visible colo ail (up to a maximum diame otating wing mast should has side. A storm sail purchased the body of the sail a high	bured patch at ter of 3m) added ave a highly- d after January ly-visible colour.	**	
ā	<i>b)</i>	their stability and other chan High Visibility Every storm jib shall either be dayglo pink, orange or yellow) least 50% of the area of the sa on each side; and also that a re visible coloured patch on each 2014 shall have the material of <i>it is strongly recommended that</i> <i>or have a patch of highly visible</i>	aracteristics. of highly-visible coloured m or have a highly-visible colo ail (up to a maximum diame otating wing mast should has side. A storm sail purchased the body of the sail a high at the storm trysail should e	bured patch at ter of 3m) added ave a highly- d after January ly-visible colour.		
	b) 1.26.3	their stability and other chan High Visibility Every storm jib shall either be dayglo pink, orange or yellow) least 50% of the area of the sa on each side; and also that a re visible coloured patch on each 2014 shall have the material of <i>it is strongly recommended that</i> <i>or have a patch of highly visible</i> Materials	aracteristics. of highly-visible coloured m or have a highly-visible colo ail (up to a maximum diame otating wing mast should has side. A storm sail purchased the body of the sail a high at the storm trysail should e be colour.	bured patch at ter of 3m) added ave a highly- d after January ly-visible colour. <i>ither be made of</i>		
	<i>b)</i>	their stability and other chan High Visibility Every storm jib shall either be dayglo pink, orange or yellow) least 50% of the area of the sa on each side; and also that a re visible coloured patch on each 2014 shall have the material of <i>it is strongly recommended that</i> <i>or have a patch of highly visible</i>	aracteristics. of highly-visible coloured m or have a highly-visible colo ail (up to a maximum diame otating wing mast should has side. A storm sail purchased the body of the sail a high at the storm trysail should e be colour.	bured patch at ter of 3m) added ave a highly- d after January ly-visible colour. <i>ither be made of</i> e used in a trysail	**	

<i>b)</i>	it is strongly recommended that a heavy-weather jib does not contain aromatic polyamides, carbon and similar fibres other than spectra/dyneema.	**
4.26.4	The following shall be provided:-	
_a)	sheeting positions on deck for each storm and heavy-weather sail;	**
b)	for each storm or heavy-weather jib, a means to attach the luff to the stay, independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment permanently attached;	**
	Storm and heavy weather jib areas shall be calculated as:	
	(0.255 x luff length x (luff perpendicular + 2 x half width))* To apply to	
(\mathbf{r})	sails made in January 2012 and after. a storm trysail which shall be capable of being sheeted independently of	MoMu 0,1,2
с)	the boom with trysail area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E). The storm trysail area shall be measured as (0.5 x leech length x shortest distance between tack point and leech). The storm trysail shall have neither headboard nor battens, however a storm trysail is not required in a yacht with a rotating wing mast which can adequately substitute for a trysail. The method of calculating area applies to sails made in January 2012 and after.	MOMU 0,1,2
∎d)	the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail	Extract File Only
,	number and letter(s) shall be placed on both sides of the trysail (or on a rotating wing mast as substitute for a trysail) in as large a size as practicable;	, МоМи 0,1,2
e)	a storm jib of area not greater than 5% height of the foretriangle squared,	MoMu0,1,2
C	with luff maximum length 65% height of the foretriangle;	101100,1,2
f)	a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of	**
	area not greater than 13.5% height of the foretriangle squared;	
h)	in the case of a yacht with an in-mast furling mainsail, the storm trysail must be capable of being set while the mainsail is furled.	MoMu0,1,2
i)	A trysail track should allow for the trysail to be hoisted quickly when the mainsail is lowered whether or not the mainsail is stowed on the main boom.	МоМи0,1,2
	It is strongly recommended that a boat has either a dedicated trysail track permanently installed with the entry point accessible to a person standing on the main deck or coachroof, or a permanently installed stay on which to hank the trysail.	
<i>k)</i>	It is strongly recommended that an inner forestay is provided either permanently installed or readily set up, on which to set the storm jib.	МоМи0,1,2

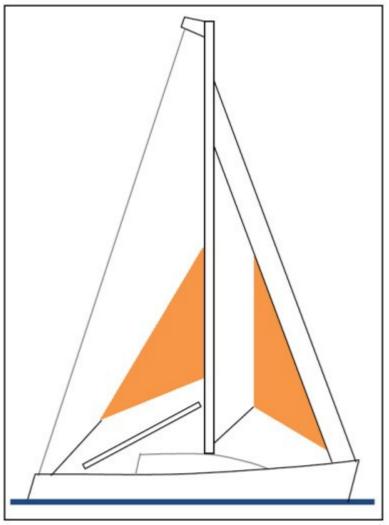


Figure 3

4.28 Man Overboard Alarm

- 4.28.2 A yacht is recommended to be equipped with an EPFS (e.g. GPS) capable of immediately recording a man overboard position from each helm station
- 4.28.3 A yacht shall be equipped with an EPFS (e.g. GPS) capable of immediately recording a man overboard position from each helm station (From January 2012)

SECTION 5 - PERSONAL EQUIPMENT

5.01 Lifejacket

Each crew member shall have a lifejacket as follows:-	**
	**
In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396 or UL 1180	**
Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO 12402–3 (Level 150) and shall be fitted with:-	**
• an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3.	
 a sprayhood in accordance with ISO 12402-8. 	
• a full deck safety harness in accordance with ISO 12401 (ISO 1095)	
including a crotch or thigh strap (holding down device) as specified in ISO 12401 (ISO 1095).	
• If of an inflatable type either	
(a) automatic, manual and oral inflation or	
(b) manual and oral inflation	
Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a mandatory whistle and retro-reflective material. Also, when fitted with a safety harness, ISO 12402 requires that this shall be the full safety harness in accordance with ISO 12401. Any equivalent lifejacket shall have equal requirements	
	 In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396 or UL 1180 Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO 12402–3 (Level 150) and shall be fitted with:- an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3. a sprayhood in accordance with ISO 12402-8. a full deck safety harness in accordance with ISO 12401 (ISO 1095) including a crotch or thigh strap (holding down device) as specified in ISO 12401 (ISO 1095). If of an inflatable type either (a) automatic, manual and oral inflation or (b) manual and oral inflation Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a mandatory whistle and retro-reflective material. Also, when fitted with a safety harness, ISO 12402 requires that this shall be the full safety harness

- MoMu0
- МоМи 1, 2
- MoMu 1, 2

b)	Persons of larger than average build are generally more buoyant than those of average build and so do not require a lifejacket with greater levels of flotation. Wearing a Level 275 lifejacket may hamper entry into liferafts. fitted with either a crotch strap(s) / thigh straps or a full safety harness in	**
	accordance with ISO 12401, Note: The function of lifejacket crotch/thigh straps is to hold the buoyancy element down. A crew member before a race should adjust a lifejacket to fit then retain that lifejacket for the duration of the race. Correct adjustment is fundamental to the lifejacket functioning correctly.	
c)	fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white, >0.75 candelas, >8 hours),	**
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
97	It is strongly recommended that a lifejacket has:	
i)	a splashquard / sprayhood See ISO 12402 – 8,	MoMu1,2,3,4
j) ()		
k)	a PLB unit (as with other types of EPIRB, should be properly registered	MoMu1,2,3,4
Ŋ	with the appropriate authority) if of a gas inflatable type, a spare cylinder and if appropriate a spare	MoMu1,2,3,4
	activation head	
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
5.02	Safety Harness and Safety Lines (Tethers)	MoMu0,1,2,3
5.02.1	Each crew member shall have a harness and safety line that complies with	MoMu0,1,2,3
	ISO 12401 or equivalent with a safety line not more than 2m in length.	
	Harnesses and safety lines manufactured prior to Jan 2010 shall comply	
	with either ISO 12401 or EN 1095.	
	Harnesses and safety lines manufactured prior to Jan 2001 are not	
	permitted.	
_		
a)	Warning it is possible for a plain snaphook to disengage from a U	MoMu0,1,2,3
a)		MoMu0,1,2,3
a)	bolt if the hook is rotated under load at right-angles to the axis of	MoMu0,1,2,3
a)	bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive	MoMu0,1,2,3
-	bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended.	
a) 5.02.2	bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided	MoMu0,1,2,3 MoMu0,1,2,3
5.02.2	bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:-	MoMu0,1,2,3
5.02.2 a)	bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or	MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b)	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a)	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag 	MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b)	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3 5.02.4	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3 5.02.4 <i>5.02.5</i>	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3 5.02.4	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible <i>It is strongly recommended that:-</i> 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.2 a) b) 5.02.3 5.02.4 <i>5.02.5</i> <i>a)</i> <i>b)</i>	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible <i>It is strongly recommended that:-</i> static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps. 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 <i>MoMu0,1,2,3</i> <i>MoMu0,1,2,3</i> <i>MoMu0,1,2,3</i>
5.02.2 a) b) 5.02.3 5.02.4 <i>5.02.5</i> <i>a)</i>	 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency. A crew member's lifejacket and harness shall be compatible <i>It is strongly recommended that:-</i> static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps. to draw attention to wear and damage, stitching on harness and safety	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 <i>MoMu0,1,2,3</i>
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	when working on the foredeck. 1m safety lines or the midpoint snaphook on a 2m line should be used for this purpose. The diligent use of a properly adjusted safety harness and the shortest safety line practicable is regarded as by far the most effective way of preventing man overboard incidents.	
5.04 <i>b)</i>	Foul Weather Suits <i>it is recommended that a foul weather suit should be fitted with marine-</i> <i>grade retro-reflective material, and should have high-visibility colours on its</i>	**
	<i>upper parts and sleeve cuffs.See OSR 4.18</i> A buoyant watertight flashlight, one shall be supplied to each crew member.	MoMu0
5.07	Survival Equipment	MoMu0
d)	Attention is drawn to the value of keeping on the person a combined 406MHz/121.5MHz PLB when on deck: this may aid location in a man overboard incident independent of the equipment carried by the parent	МоМи0,1,2
	vessel	
e)	All PLB units, as with other types of EPIRB, should be properly registered with the appropriate authority	МоМи0,1,2
5.07.2	It is strongly recommended that an immersion suit should be supplied to each crew member in a multihull in conditions where there is a potential	Mu1,2,3,4
CE CETO	for hypothermia	
6.01	IN 6 - TRAINING At least 30% but not fewer than two members of a crew, including the skipper shall have undertaken training within the	MoMu1,2
	five years before the start of the race in both 6.02 topics for	
	theoretical sessions, and 6.03 topics which include practical, hands-on sessions.	
6.01.3	It is strongly recommended that all crew members should undertake	MoMu1,2
0.01.5	training as in OSR 6.01 at least once every five years	1101101,2
6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate	MoMu0,1,2
	gained at an 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	
6.02	further details. Training Topics for Theoretical Sessions	
6.02.1	care and maintenance of safety equipment	MoMu0,1,2
6.02.2	storm sails	MoMu0,1,2
6.02.3	damage control and repair	MoMu0,1,2
6.02.4	heavy weather - crew routines, boat handling, drogues	MoMu0,1,2
6.02.5	man overboard prevention and recovery	MoMu0,1,2
6.02.6	giving assistance to other craft	MoMu0,1,2
6.02.7	hypothermia	MoMu0,1,2
6.02.8	SAR organisation and methods	MoMu0,1,2
6.02.9	weather forecasting	MoMu0,1,2
6.03	Training Topics for Practical, Hands-On Sessions	MoMu0,1,2
6.03.1	liferafts and lifejackets	MoMu0,1,2
6.03.2	fire precautions and use of fire extinguishers	MoMu0,1,2
6.03.3	communications equipment (VHF, GMDSS, satcomms, etc.)	MoMu0,1,2
6.03.4	pyrotechnics and EPIRBs	MoMu0,1,2 **
6.04 1	Routine Training On-Board	**
6.04.1	It is recommended that crews should practice safety routines at reasonable	
	<i>intervals including the drill for man-overboard recovery</i> At least one member of the crew	MoMu2
	shall have a first aid certificate completed within the last five years meeting	MOMUZ
	any of the following requirements:	
i	A certificate listed on the ISAF website www.sailing.org/specialregs of MNA	
•	recognised courses	
	STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid	

APPENDICES TO SPECIAL REGULATIONS

Appendix A - Minimum Specification for Yachtsmens Liferafts Appendix B - A guide to ISO and other Standards Appendix C - Standard Inspection Card Appendix D - Quickstop & Lifesling Appendix E - Hypothermia Appendix F - Drogues and sea anchors Appendix G - Model Training Course Appendix H - ISAF Code for the organisation of Oceanic Races Appendix M - Hull Construction Standards (Scantlings) Appendix N - Model First Aid Training Course **APPENDIX M - Hull Construction Standards (Scantlings)** (Monohulls pre-2010 and Multihulls) A monohull with the earliest of Age or Series Date before the 1 January 2010 shall comply with OSR 3.03.1, 3.03.2 and 3.03.3 or with this appendix. A multihull shall comply with this appendix.

	TABLE 2		MoMu0,1,2
	LOA	earliest of age or series date	race category
	all	January 1986 and after	MoMu0,1
	12m (39.4 feet) and over	January 1987 and after	MoMu2
	under 12m (39.4 feet)	January 1988 and after	MoMu2
m2	A yacht defined in the table above s		MoMu0,1,2
		n accordance with the requirements of	
	either:		
a)	mark), or	or Category A (having obtained the CE	MoMu0,1,2
b)		sing Offshore Yachts in which case the	MoMu0,1,2
	yacht shall have on board either a co	· · · · ·	
	ABS, or written statements signed b		
	confirm that they have respectively of	designed and built the yacht in	
c)	accordance with the ABS Guide,	statements signed by the designer and	
c)		statements signed by the designer and respectively designed and built the	MoMu0,1,2
	yacht in accordance with the ISO sta	, , ,	
d)	•	rules may accept when that described	MoMu0,1,2
α,		ble, the signed statement by a naval	1101100/2/2
		the standards listed above that the	
	yacht fulfills the requirements of (a)	, (b), or (c).	
m3		ns to the hull, deck, coachroof, keel or	MoMu0,1,2
		able 2 shall be certified by one of the	
		written statement or statements shall	
	be on board.		

end of file

m1

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MoMu0,1,2