ISAF OFFSHORE SPECIAL REGULATIONS

JANUARY 2014 - DECEMBER 2015 (Incorporating Amendments Effective 1st January 2015) www.sailing.org/specialregs



Extract for Race Category 0 Monohulls

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

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- make any amendments by deleting contrary provisions and indicating that changes have been made
- supply a copy of the reprint to each of ISAF and ORC Ltd

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 2015

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.

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These Special Regulations do not replace, but rather supplement, the ** 1.01.2 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. These Special Regulations, adopted internationally, are strongly recommended ** 1.01.3 for use by all organizers of offshore races. Race Committees may select the category deemed most suitable for the type of race to be sailed. 1.02 **Responsibility of Person in Charge** 1.02.1 The safety of a yacht and her crew is the sole and inescapable ** responsibility of the person in charge who must do his best to ensure that the yacht is fully found, thoroughly seaworthy and manned by an experienced crew who have undergone appropriate training and are physically fit to face bad weather. He must be satisfied as to the soundness of hull, spars, rigging, sails and all gear. He must ensure that all safety equipment is properly maintained and stowed and that the crew know where it is kept and how it is to be used. He shall also nominate a person to take over the responsibilities of the Person in Charge in the event of his incapacitation. 1.02.2 Neither the establishment of these Special Regulations, their use by race ** organizers, nor the inspection of a yacht under these Special Regulations in any way limits or reduces the complete and unlimited responsibility of the person in charge. Decision to race -The responsibility for a yacht's decision to ** 1.02.3 participate in a race or to continue racing is hers alone - RRS **Fundamental Rule 4. Definitions, Abbreviations, Word Usage** 1.03 1.03.1 Definitions of Terms used in this document TABLE 1

I ADLL I	
Age Date	Month/year of first launch
AIS	Automatic Identification Systems
CEN	Comité Européen de Normalisation
CPR	Cardio-Pulmonary Resuscitation
Coaming	Includes the transverse after limit of the cockpit over
	which water would run in the event that when the yacht is
	floating level the cockpit is flooded or filled to overflowing.
DSC	Digital Selective Calling
EN	European Norm
EPFS	Electronic Position-Fixing System
EPIRB	Emergency Position-Indicating Radio Beacon
FA Station	The transverse station at which the upper corner of the
	transom meets the sheerline.
Foul-Weather	A foul weather suit is clothing designed to keep the wearer
Suit	dry and maybe either a jacket and trousers worn together,
	or a single garment comprising jacket and trousers.
GMDSS	Global Maritime Distress & Safety System
GNSS	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
	also the lid or cover as part of that assembly (the part
	itself may be described as a hatch).
INMARSAT	This is Inmarsat Global Limited, the private company that
	provides GMDSS satellite distress and safety
	communications, plus general communications via voice,
	fax and data
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 ITSAF International Sailing Federation. ISO International Sailing Federation. Lifeline Rope or wire line rigged as guardrail / guardline around the deck LOA Length overall not including pulpits, bowsprits, boomkins etc. LWL (Length of) loaded waterline Monohull Yacht in which the hull depth in any section does not decrease towards the centre-line. Moveable Ballast practical function 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. ORC Offshore Racing Congress (formerly Offshore Racing Council) OSR Offshore Special Regulation(s) Permanently Installed welding, glassing etc. and may not be removed for or during racing. PLB Personal Locator Beacon Proa Asymmetric Catamaran RRS ISAF - Racing Rules of Sailing SART Search and Rescue SART Search and Rescue SART Search and Rescue Transponder Series Date Month & Year of first launch of the first yacht of the production series SOLAS Safety Life at Sea Convention A tether used to connect a safety harness to a strong point 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 Static Ballast Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence stability and/or trim and which may not be moved or varied in weight while a boat is racing. Static Safety Line a harness) kept clipped on at a work-station Water carried for the sole purpose of influencing stability and/or trim and which may be varied in weight and/or moved while a boat is racing.		1
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Ballast and/or trim and which may be varied in weight and/or moved while a boat is racing.		
moved while a boat is racing.		
	Ballast	,

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

In many types of race, ranging from trans-oceanic sailed under adverse conditions to short-course day races sailed in protected waters, seven categories are established, to provide for differences in the minimum standards of safety and accommodation required for such varying circumstances:

2.01.1 Category 0

Trans-oceanic races, including races which pass through areas in which air or

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sea temperatures are likely to be less than 5 degrees Celsius other than temporarily, where yachts must be completely self-sufficient for very extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.	
A yacht may be inspected at any time. If she does not comply with these Special Regulations her entry may be rejected, or she will be liable to disqualification or such other penalty as may be prescribed by the national authority or the race organizers.	**
General Requirements	
All equipment required by Special Regulations shall:-	
function properly	**
be regularly checked, cleaned and serviced	**
when not in use be stowed in conditions in which deterioration is minimised	**
be readily accessible	**
be of a type, size and capacity suitable and adequate for the intended use and size of the yacht.	**
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toolboxes and anchors and chain shall be securely fastened	**
	**
	dede
	**
Regulations for Preventing Collision at Sea, (Part C and Technical Annex 1). All	**
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	**
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.	**
form an integral, essentially watertight unit and any openings in it shall be	**
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	**
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	**
Moveable ballast systems shall be fitted with a manual control and 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	**
	temporarily, where yachts must be completely self-sufficient for very extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance. Inspection A yacht may be inspected at any time. If she does not comply with these Special Regulations her entry may be rejected, or she will be liable to disqualification or such other penalty as may be prescribed by the national authority or the race organizers. General Requirements All equipment required by Special Regulations shall:-function properly be regularly checked, cleaned and serviced when not in use be stowed in conditions in which deterioration is minimised be readily accessible be of a type, size and capacity suitable and adequate for the intended use and size of the yacht. Heavy items: ballast, ballast tanks and associated equipment shall be permanently installed heavy movable items including e.g. batteries, stoves, gas bottles, tanks, toolboxes and anchors and chain shall be securely fastened heavy items for which fixing is not specified in Special Regulations shall be permanently installed or securely fastened, as appropriate When to show navigation lights 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 required times. DN 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT Strength of Build, Ballast and Rig 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. Watertight Integrity of a Hull A hull, including, deck, coach roof, windows, hatches and all other parts, shall be capable of being immediately secured to maintain this integrity. Centreboard and da

Hull Construction Standards (Scantlings) 3.03 3.03.1

centreline.

c)

MoMu0,1,2 Mo0,1,2 Mo0,1,2

A yacht of less than 24m in hull length (measured in accordance with ISO a) 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have:

• been designed, built and maintained in accordance with the requirements of

	ICO 12215 Catagon, A *	
	 ISO 12215 Category A * on board a certificate of building plan review from a notified body recognized by ISAF. 	
b)	• on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Notified Body. A yacht of 24m in hull length and over (measured in accordance with ISO 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have:	Mo0,1,2
	 been designed, built and maintained in accordance with the requirements of a Classification Society recognized by ISAF on board a certificate of building plan review from a Classification Society recognized by ISAF 	
2 02 2	• on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Classification Society .	MaQ 1 2
3.03.2 a)	A yacht of less than 24m in hull length (measured in accordance with ISO 8666), with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have • the repair or modification designed and built in accordance with ISO 12215 Category A*	Mo0,1,2 Mo0,1,2
	 on board a certificate of building plan review for the repair or modification from a notified body recognized by ISAF on board a declaration signed and dated by the builder to confirm that the repair or modification is in accordance with the requirements of ISO 12215 	
b)	Category A * A yacht of 24m in hull length and over (measured in accordance with ISO 8666), with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have • the repair or modification designed and built in accordance with the requirements of a Classification Society recognized by ISAF • on board a certificate of building plan review for the repair or modification from a Classification Society recognized by ISAF • on board a declaration signed and dated by the builder to confirm that the repair or modification is in accordance with the plans reviewed by the Classification Society.	Mo0,1,2
3.03.3	In cases when a builder no longer exists a race organizer or class rules may accept a signed statement by a naval architect or other person familiar with the requirements of 3.031 and 3.03.2 above and in lieu of the builders declaration required by 3.031 and 3.03.2 above.	Mo0,1,2
3.03.4	A monohull with the earliest of Age or Series Date before the 1 January 2010 shall comply with 3.03.1, 3.03.2 and 3.03.3 above or with appendix M to these OSR. * or as from time to time specified by ISAF	Extract Mo0,1,2
3.03.5	Regular inspection of the keel and keel/hull attachment structure are strongly recommended	Mo0,1,2,3,4
3.04 3.04.1	Stability - Monohulls Either with, or without, reasonable intervention from the crew a yacht shall be capable of self-righting from an inverted position. Self-righting shall be achievable whether or not the rig is intact.	Mo0,1,2,3,4 Mo0
a)	When there is a moveable or variable ballast system, written instructions on how to right the boat after a capsize shall be prominently and clearly displayed. All persons on board shall have a thorough knowledge of the righting procedures	Mo0
3.04.2 3.04.3	A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2*, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration, for the race categories as follows:	Mo0,1,2,3,4 Mo0,1,2,3

OSR Category	0,1,2	3
ISO Category	Α	В

* The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version

3.04.4 For yachts which cannot demonstrate compliance in accordance with 3.04.3, a Mo0,1,2,3 yacht shall provide, as specified by the race organiser, either:

Extract Mo0

Extract Mo0.1

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

Mo0,1,2,3,4

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Extract Mo0,1,2

a) the stability index/AVS in ORC Rating System of not less than 120; or

b) IRC SSS Base value of not less than 35; or

c) a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.)

3.04.6 Use of the ISO or any other index does not guarantee total safety or total freedom of risk from capsize or sinking.

3.04.7 For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply plus the relevant additional requirement of OSR Appendix K.

3.04.8 Tanks for variable ballast shall be permanently installed and shall be provided with a system of isolating valves and pump(s) capable of manual operation at any angle of heel. A plan of the plumbing system shall be displayed aboard the hoat

3.04.9 A boat fitted with moveable and/or variable ballast shall have a maximum static heel angle in the condition of Light Craft Condition (see ISO 12217-2) with moveable ballast moved fully to one side and variable ballast in the condition that produces maximum angle of heel of not greater than 35 degrees.

3.06 Exits - Monohulls Mo0,1,2,3,4

- 3.06.1 Yachts of LOA of 8.5 m (28 ft) and over with age or series date after January 1995 and after shall have at least two exits. At least one exit shall be located forward of the foremost mast except where structural features prevent its installation.
- 3.06.2 Yachts first launched on or after January 2014 have a hatch with the following Mo0,1,2,3,4 minimum clear openings in compliance with ISO 9094:
 - Circular shape: diameter 450mm;
 - Any other shape: minimum dimension of 380mm and minimum area of 0.18m2. The dimension must be large enough to allow for a 380mm diameter circle to be inscribed.

The measurement of the minimum clear opening is illustrated in Figure 1.

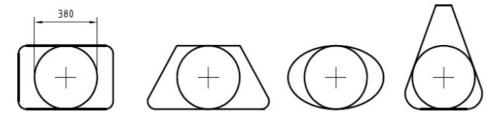


Figure 1 - Measurements of Minimum Clear Opening

3.06.3 when first launched prior to January 2014, if possible have each escape hatch Mo0,1,2,3,4 in compliance with the dimensions in OSR 3.07.2(a)(ii);

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:

a)	so arranged as to be above the water when the hull is heeled 90 degrees. Hatches over lockers that open to the interior of the vessel shall be included in this requirement. A yacht may have a maximum of four (two on each side of centerline) hatches that do not conform to this requirement, provided that the opening of each is less than 0.071 sq m (110 sq in). Effective for boats of a series begun after January 1, 2009, a written statement signed by the designer or other person who performed the downflooding analysis shall be carried on board. For purposes of this rule the vessel's displacement condition for the analysis shall be the Light Craft Condition LCC (in conformity with 6.3 of the EN ISO 8666 standard and 3.5.1 of the EN ISO12217-2 standard).	Mo0,1,2,3,4
b)	permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion)	**
3.08.4	A companionway hatch shall:	
a)	be fitted with a strong securing arrangement which shall be operable from the exterior and interior including when the yacht is inverted	**
b)	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	**
3.08.5	If the companionway extends below the local sheerline and the boat has a cockpit opening aft to the sea the boat shall comply with one of the following:	Mo0,1,2,3,4
a)	the companionway sill shall not extend below the local sheerline. Or	Mo0,1,2,3,4
b)	be in full compliance with all aspects of ISO 11812 to design category A	Mo0,1,2,3,4
3.08.6	For boats with a cockpit closed aft to the sea where the companionway hatch extends below the local sheerline, the companionway shall be capable of being blocked off up to the level of the local sheerline, provided that the companionway hatch shall continue to give access to the interior with the blocking devices (e.g. washboards) in place	Mo0,1,2,3,4
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	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes	**
	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first	
3.09.3 3.09.4	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL)	**
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3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit).	** ** **
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3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after as above for the appropriate category except that "lowest coamings" shall not	** ** **
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3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard	** ** ** Extract MoMu0,1
3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA.	** ** ** Extract MoMu0,1 Extract **
3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA. Cockpit Drains	** ** ** Extract MoMu0,1 Extract **
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3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA. Cockpit Drains See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:-	** ** ** Extract MoMu0,1 Extract **
3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA. Cockpit Drains See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:- in yachts with earliest of age or series date before 1/72 or in any yacht under	** ** ** Extract MoMu0,1 Extract **
3.09.3 3.09.4 3.09.5 3.09.6 3.09.7 i)	be capable of being strongly and rigidly secured A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL) A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09 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. Cockpit Volume earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit). earliest of age or series date April 1992 and after 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA. Cockpit Drains See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:-	** ** ** Extract MoMu0,1 Extract **

b)	in yachts with earliest of age or series date 1/72 and later - at least that of 4 x 20mm diameter (3/4 inch) unobstructed openings or equivalent	**
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 indicators, depth finders and the like, however a means of closing such openings shall be	**
	provided.	
3.11	Sheet Winches	
	Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck.	**
3.12	Mast Step	
	The heel of a keel stepped mast shall be securely fastened to the mast step or	**
2 4 2	adjoining structure.	
3.13	Watertight Bulkheads A bull chall have either a watertight "crach" bulkhead within 15% of LOA from	ManMun 1 2 2 4
3.13.1	A hull shall have either a watertight "crash" bulkhead within 15% of LOA from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LOA of the hull.	Mo0Mu0,1,2,3,4
3.13.2	Any required watertight bulkhead shall be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment.	Mo0Mu0,1,2,3,4
3.13.3	A yacht shall have at least two watertight transverse main bulkheads in addition to any bulkheads positioned within the forward and aft 15 percent of the boat's LOA.	Mo0
3.13.4	Outside deck access for inspection and pumping shall be provided to every watertight compartment terminated by a hull section bulkhead, except that deck access to extreme end "crash" compartments is not required.	Mo0
3.13.5	An access hatch shall be provided in every required watertight bulkhead	Mo0
3.13.3	(except a "crash" bulkhead). The access hatch shall have means of watertight	1100
	closure permanently attached to the main panel, or lid, or cover of the hatch.	
	The closure shall not require tools to operate.	
a)	An access hatch should be capable of being securely shut within 5 seconds	<i>Mo0</i>
3.13.6	It is strongly recommended that:	Mo0
a)	an extreme end "crash" bulkhead should be provided at the stern. If	<i>Mo0</i>
	practicable the aft "crash" bulkhead should be forward of the rudder post.	
<i>b)</i>	after flooding any one major compartment, a yacht should be capable of	Mo0
	providing shelter and sustenance for a full crew for 2 weeks in an essentially	
	dry compartment having direct access to the deck	
<i>c)</i>	compartments between watertight bulkheads should be provided with a means	<i>Mo0</i>
	of manually pumping out from within the hull from a position outside the	
	compartment	
3.14	Pulpits, Stanchions, Lifelines	1.1.
3.14.2	Lifeline deflection shall not exceed the following:	**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway	**
	between supports of an upper or single lifeline, the lifeline shall not deflect	
	more than 50mm. This measurement shall be taken at the widest span	
1-3	between supports that are aft of the mast.	**
b)	When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports	<i>ተ</i> ተ
	of an intermediate lifeline of all spans that are aft of the mast, deflection shall	
2142	not exceed 120mm from a straight line between the stanchions.	**
3.14.3	The following shall be provided:	
a)	a bow pulpit with vertical height and openings essentially conforming to Table	Mo0,1,2,3,4
	7. Bow pulpits may be open but the opening between the pulpit and any part of the boat shall never be greater than 360mm (14.2") (this requirement shall	
	be checked by presenting a 360mm (14.2") circle inside the opening)	

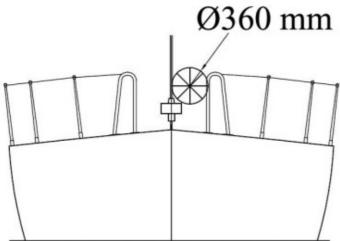


	Figure 2 - Diagram Showing Pulpit Opening	
b)	a stern pulpit, or lifelines arranged as an adequate substitute, with vertical	Mo0,1,2
b)	openings conforming to Table 7	1100,1,2
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall form	**
<i>د</i> ر	an effectively continuous barrier 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 stanchions	
d)	upper rails of pulpits at no less height above the working deck than the upper	**
u)	lifelines as in Table 7.	
۵)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
e)	• • • • • • • • • • • • • • • • • • • •	**
f)	Pulpits and stanchions shall be permanently installed. When there are sockets	71-71-
	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 edge	
	of the appropriate working deck than 5% of maximum beam or 150 mm (6 in),	
	whichever is greater.	slasla
า)	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.	alasta.
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.	
)	Stanchions shall be straight and vertical except that:-	**
	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	
i	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	**
3.14.5	Lifeline Height, Vertical Openings, Number of Lifelines	
	TABLE 7	**
	LOA earliest of minimum requirements	Catogory

minimum requirements

LOA

earliest of

Category

	age/seriesdate		
under 8.5 m(28 ft)	before January 1992	single lifeline at a height of no less than 450 mm (18 in) above the working deck. No vertical 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, except that when an intermediate lifeline is fitted no vertical opening shall exceed 380 mm (15 in).	**
8.5 m (28 ft) and over	before January 1993	double lifeline with upper lifeline at a height of no less than 600 mm (24 in) above the working deck. No vertical opening shall exceed 560 mm (22 in)	**
8.5 m (28 ft)and over	January 1993 and after	as 8.5 m (28 ft) and over in Table 7 above, except that no vertical opening shall exceed 380 mm (15 in).	**
all	all	on yachts with intermediate lifelines the intermediate line shall be not less than 230 mm (9 in) above the working deck.	**

3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications

Lifelines shall be of: a)

**

- stranded stainless steel wire or

**

**

**

**

The minimum diameter is specified in table 8 below. b)

- c) Stainless steel lifelines shall be uncoated and used without close-fitting sleeving, however, temporary sleeving may be fitted provided it is regularly removed for inspection.
- When stainless wire is used, Grade 316 is recommended. d)
- f) A taut lanyard of synthetic rope may be used to secure lifelines provided the gap it closes does not exceed 100 mm (4 in). This lanyard shall be replaced annually at a minimum.
 - **
- All wire, fittings, anchorage points, fixtures and lanyards shall comprise a g) lifeline enclosure system which has at all points at least the breaking strength of the required lifeline wire.

TABLE 8 - Minimum Diameters

**

LOA	wire	HMPE rope (Single	HMPE Core (Braid on
		braid)	braid)
under 8.5m (28ft)	3mm (1/8 in)	4mm (5/32 in)	4mm (5/32 in)
8.5m - 13m	4mm (5/32 in)	5mm (3/16 in)	5mm (3/16 in)
over 13m (43 ft)	5mm (3/16in)	5mm (3/16in)	5mm (3/16in)

3.17 **Toe Rail or Foot - Stop**

Mo0,1,2,3

A toe rail of minimum height 25 mm (1 in) shall be permanently installed 3.17.1 around the foredeck from abreast the mast, except in way of fittings and not further inboard from the edge of the working deck than one third of the local half-beam.

Mo0,1,2,3

The following variations shall apply:-3.17.2

TABLE 10

Mo0,1,2,3 Mo0,1,2,3

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
LOA	Earliest of Age or Series Date	minimum requirements
any	before January 1981	a toe rail minimum height of 20 mm (3/4 in) is acceptable.
any	before January 1994	an additional lifeline of minimum height 25 mm (1 in) and maximum height 50 mm (2 in) is acceptable in lieu of a toe rail (but shall not count as an intermediate lifeline).
any	January 1994 and after	the toe rail shall be fitted as close as practicable to the vertical axis of stanchion bases but not further inboard than 1/3 the local half-beam.
Tailat		

3.18.1	A toilet, permanently installed	MoMu0,1,2
3.19	Bunks	, ,
3.19.1	Bunks, permanently installed, one for each member of the declared crew	MoMu0
3.19.2	Bunks, permanently installed	**
3.20 3.20.1	Cooking Facilities A cooking stove, permanently installed or securely fastened with safe	MoMu0,1,2,3
5.20.1	accessible fuel shutoff control and capable of being safely operated in a	1401410,1,2,3
	seaway.	
3.21	Drinking Water Tanks & Drinking Water	MoMu0,1,2,3
3.21.1	•	MoMu0,1,2,3
a)	A yacht shall have a permanently installed delivery pump and water tank(s):	MoMu0,1,2,3
1	dividing the water supply into at least three compartments	MoMu0
3.21.2 a)	Drinking Water Each yacht shall have the necessary equipment (which may include	MoMu0
a)	watermakers and tanks containing water) permanently installed to provide at	MoMuo
	least 3 litres of drinking water per person per day for at least the likely	
	duration of the voyage	
3.21.3		MoMu0,1,2,3
b)	In the absence of a power driven watermaker, at least 1 litre per person per	MoMu0
	day in at least two separate containers shall be provided for the expected	
c)	duration of the voyage When a power-driven watermaker is on board, at least 500ml per person per	MoMu0
C)	day in at least two separate containers shall be provided for the expected	Morido
	duration of the voyage	
d)	Facilities shall be provided to collect rainwater for drinking purposes including	MoMu0
	when dismasted	
3.22	Hand Holds	**
	Adequate hand holds shall be fitted below deck so that crew members may move about safely at sea.	<i>ተ</i> ተ
	A hand hold should be capable of withstanding without rupture a side force of	
	1500N - attention is drawn to ISO 15085.	
3.23	Bilge Pumps and Buckets	
3.23.1	No bilge pump may discharge into a cockpit unless that cockpit opens aft to	**
2 22 2	the sea.	**
3.23.2 3.23.3	Bilge pumps shall not be connected to cockpit drains. (OSR 3.09) Bilge pumps and strum boxes shall be readily accessible for maintenance and	**
3.23.3	for clearing out debris	
3.23.4	Unless permanently installed, each bilge pump handle shall be provided with a	**
	lanyard or catch or similar device to prevent accidental loss	
3.23.5	The following shall be provided:	
a)	two permanently installed manual bilge pumps, one operable from above, the	Mo0,1,2
	other from below deck. Each pump shall be operable with all cockpit seats,	
	hatches and companionways shut and shall have permanently installed discharge pipe(s) of sufficient capacity to accommodate simultaneously both	
	pumps	
f)	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	
3.24.1	The following shall be provided:-	**
a)	a marine magnetic compass, independent of any power supply, permanently installed and correctly adjusted with deviation card, and	1
b)	a magnetic compass independent of any power supply, capable of being used	MoMu0,1,2,3
- /	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.	**
3.26	Bow Fairlead A bow fairlead closed or closeble and a close or cocuring arrangement	MoO
	A bow fairlead, closed or closable and a cleat or securing arrangement, suitable for towing shall be permanently installed.	Mo0
3.27	Navigation Lights (see OSR 2.03.3)	
·		

3.27.1	Navigation lights shall be the heeling of the yacht.	mounted so that they will not be masked by sails or	**
3.27.2	Navigation lights shall not	be mounted below deck level and should be at no ely under the upper lifeline.	**
3.27.3	Navigation light intensity TABLE 11	cry under the upper meme.	
	LOA	Guide to required minimum power rating for an	
		electric bulb in a navigation light	
	under 12 m (39.4 ft)	10 W	
	12 m (39.4 ft) and above	25 W	
3.27.4	specifications as the navig	shall be carried having the same minimum ation lights above, with a separable power source, m essentially separate from that used for the normal	MoMu0,1,2,3
3.27.5	5 5	lights shall be carried, or for lights not dependent on	**
3.28	Engines, Generators, Fo	uel	
3.28.1	Propulsion Engines		**
a)	manufacturers' guidelines	stems shall be installed in accordance with their and shall be of a type, strength, capacity, and	**
b)		e size and intended use of the yacht. Jine when fitted shall: be provided with a	**
D)		aust, coolant, and fuel supply systems and fuel	
	•	ed; and have adequate protection from the effects of	
	heavy weather.		
c)		red by Special Regulations shall provide a minimum	MoMu0,1,2,3
	in feet)	quare root of LWL in metres) or (square root of LWL	
e) 3.28.2	•	ine shall be provided for yachts	Mo0,1,2Mu0
3.20.2		electricity is optional. However, when a separate	**
		I be permanently installed, securely covered, and	
		stalled exhaust, cooling and fuel supply systems and	
		equate protection from the effects of heavy weather.	
3.28.3	Fuel Systems	ith a shutoff valve. Eveent for normanently installed	MaMun 1 2 2
a)	•	ith a shutoff valve. Except for permanently installed tank is not permitted as a fuel tank.	MoMu0,1,2,3
b)		Ill have a minimum amount of fuel which may be	MoMu0,1,2,3
,		Race but if not, shall be sufficient to be able to meet	
		the duration of the race and to motor at the above	
2 20 4	minimum speed for at leas	st 8 hours	
3.28.4 a)	Battery Systems When an electric starter is	the only method for starting the engine, the yacht	MoMu0,1,2,3
u)		ery, the primary purpose of which is to start the	1101100,1,2,3
b)	_	on board shall be of the sealed type from which	MoMu0,1,2,3
,	_	scape. Other types of battery installed on board at	, , ,
	•	for the remainder of their service lives.	
3.29		ment, EPFS (Electronic Position-Fixing	**
	System), Radar, AIS Provision of CMDSS is unl	ikely to be mandatory for small craft during the term	MoMu0,1,2,3
	of the present Special Reg		1401400,1,2,3
3.29.1	The following shall be pro-		**
a)	A marine radio transceiver	(or if stated in the Notice of Race, an installed	MoMu0,1,2,3
	satcom terminal), and		
i b)		nen the regular antenna depends upon the mast.	MoMu0,1,2,3
b)	When the marine radio tra	HISCEIVEL IS VIII.	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 than 40% power loss	MoMu0,1,2,3 MoMu0,1,2,3
iii	the following types and lengths of co-axial feeder cable will meet the 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).	MoMu0,1,2,3
iv	it should include channel 72 (an international ship-ship channel which, by common use, has become widely accepted as primary choice for ocean racing yachts anywhere in the world)	MoMu0,1,2,3
v vi	VHF transceivers installed after 31 December 2015 shall be DSC capable 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 another DSC equipped station	MoMu1,2,3 MoMu1,2,3
vii	Notwithstanding OSR 3.29.1 (b) a yacht in a Category Zero race shall have a marine VHF DSC radio in accordance with OSR 3.29.1 (b) (I) and (ii) covering all international and US marine channels and meeting the class D specification of the ITU.	MoMu0
c)	At least two hand-held satellite telephones, watertight or with waterproof covers and internal batteries. When not in use each to be stowed in a grab bag (see OSR 4.21)	MoMu0
d)	At least two hand-held marine VHF transceivers each with min 5w output power, watertight or with waterproof covers. When not in use to be stowed in a grab bag (see OSR 4.21)	MoMu0
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
g)	It is strongly recommended that a hand-held watertight transceiver operating on one or more aviation frequencies including 121.5MHz should be provided. This will enable communications between the yacht and aircraft on SAR duties, not all of which have maritime VHF. When not in use to be stowed in a grab bag (see OSR 4.21.2)	МоМиО
h)	A D/F (direction-finding) radio receiver operating on 121.5MHz to take a bearing on a PLB or EPIRB, or an alternative device for man-overboard location when each crew member has an appropriate personal unit (see OSR 5.07);	MoMu0
i) j)	An EPFS (Electronic Position-Fixing System) (e.g. GPS) A Standard-C satellite terminal (GMDSS) shall be permanently installed and permanently powered up for the duration of the race and for which the race committee shall have polling authority.	MoMu0,1,2,3 MoMu0
k)	An MF/HF marine SSB transceiver (GMDSS/DSC) with at least 125 watts transmitter power and frequency range from at least 1.6 to 29.9 MHz with permanently installed antenna and earth.	MoMu0
l) i	An active radar set permanently installed either: A pulse (magnetron) unit with not less than 4kW PEP and an antenna unit with a maximum dimension not less than 533mm; Or	MoMu0
ii	A frequency modulated continuous wave (FMCW) Broadband Radar [™] unit The radar antenna unit shall remain essentially horizontal when the yacht is heeled and at least 7 meters above the water. Installations in place before January 2006 shall comply as closely as possible with OSR 3.29(L).	
m) p)	A class A AIS The AIS Transponder shall share the masthead VHF antenna via a low loss AIS antenna splitter. An acceptable alternative is a dedicated AIS antenna that is a minimum of 381mm long, mounted with its base at least 3 meters above the water, and fed with coax cable that has a maximum 40% power loss.	MoMu0,1,2
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of detection or tracking by a vessel using radar.	**

a)	The attention of persons in charge is drawn to legislation in force or 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.	**
	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
•	ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers	
4.01 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 that sail numbers allotted by a State authority are acceptable.	**
4.01.2	Sail numbers and letters of the size carried on the mainsail must be displayed by alternative means when none of the numbered sails is set.	**
4.02	Hull marking (colour blaze)	Mo0,1,Mu0,1,2,3,4
4.02.1	To assist in SAR location:-	
a)	Each yacht shall show at least 4 m^2 of fluorescent pink or orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen	MoMu0
4.02.3	Each yacht is recommended to show on each underwater appendage an area of highly-visible colour	MoMu0,1
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	MaM. 0 1 2 2
4.04.1	Jackstays shall be provided-	MoMu0,1,2,3 MoMu0,1,2,3
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:-	MOMUO,1,2,3
b)	comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength;	MoMu0,1,2,3
c)	which, when made from stainless steel wire shall be uncoated and used without any sleeving;	MoMu0,1,2,3
d)	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;	MoMu0,1,2,3
4.04.2	Clipping Points:- shall be provided-	, , ,
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage points adjacent to stations such as the helm, sheet winches and masts, where crew members work for long periods:-	MoMu0,1,2,3
b)	which, together with jackstays and static safety lines shall enable a crew member-	MoMu0,1,2,3
i	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 on deck and the cockpit(s) with the minimum of clipping and unclipping operations.	MoMu0,1,2,3
c)	The provision of clipping points shall enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays	MoMu0,1,2,3
<i>e)</i>	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
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 equivalent	MoMu0,1,2,3
4.05.3	Fire extinguishers, at least three of minimum 2 kgs each of dry powder or equivalent including at least one extinguisher or system suitable for dealing with fire in a machinery space	MoMu0
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 specification of anchor, chain and rope shall be in accordance with	MoMu0

	relevant class rules or the rules of a recognised Classification Society (eg	
4.07	Lloyd's, DNV, etc.)	
4.07 4.07.1	Flashlight(s) and Searchlight(s) The following shall be provided:	
a)	The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person	**
a)	overboard at night and for collision avoidance with spare batteries and bulbs, and	
b)	a watertight flashlight with spare batteries and bulb	**
d)	a watertight high-intensity heavy duty handlamp powered by the ships'	MoMu0
,	batteries, instantly available for use on deck and in the cockpit, with spare bulbs	
4.08	First Aid Manual and First Aid Kit	**
4.08.1	A suitable First Aid Manual shall be provided	**
	In the absence of a National Authority's requirement, the latest edition of one of the following is recommended:-	**
a)	International Medical Guide for Ships, World Health Organisation, Geneva	MoMu0,1
<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.	**
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell Mackenzie www.msos.org.uk	7.7
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, and the	
	number of people aboard the yacht.	
4.09	Foghorn	
	A foghorn shall be provided	**
4.10	Radar Reflector	사사
4.10.1	A passive radar reflector shall be carried with:	**
	Octahederal circular sector plates of minimum diameter 300 mm (12") or Octahederal rectangular plates of minimum diagonal dimension 405 mm (16")	
	or a non-Octahederal reflector with a documented Root Mean Square minimum	
	Radar Cross Section (RCS) area of 2 m2 from 0-360 degrees in azimuth and	
	+/- 20 degrees in heel.	
4.10.2	A Radar Target Enhancer (RTE) shall be carried which complies with ISO	MoMu0
	8729-2:2009 or equivalent.	
4.11	Navigation Equipment	
4.11.1	Charts	dede
	Navigational charts (not solely electronic), light list and chart plotting	**
4.11.2	equipment shall be provided Reserve Navigation System	
7.11.2	Navigators are recommended to carry a sextant with suitable tables and a	MoMu0,1
	timepiece or an adequate reserve navigation system so that total reliance is	1101100,1
	not placed on dead-reckoning and a single form of EPFS (Electronic Position-	
	Fixing System) (see Volpe Report at	
	www.navcen.uscg.gov/archive/2001/Oct/FinalReport-v4.6.pdf)	
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	
4 1 2	marked with the location of principal items of safety equipment.	
4.13 4.13.2	Echo Sounder or Lead Line Two independent echo sounders shall be provided	MoMu0
4.13 .2 4.14	Speedometer or Distance Measuring Instrument (log)	Monuo
*147	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	
4.15.1	Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an unbreakable	MoMu0,1,2,3
	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 sea	MoMu0,1,2,3

	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	**
	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	
4.18	Marine grade retro-reflective material	d. d.
	Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings,	**
	liferafts and lifejackets. See OSRs 5.04, 5.08.	
4.19	EPIRBs	
a)	At least two 406 MHz EPIRBs shall be provided	MoMu0
<i>b)</i>	It is recommended that a 406 MHz EPIRB should include an internal GPS, and	MoMu0,1,2
۵)	also a 121.5MHz transmitter for local homing.	MaN.O 1 2
c)	Every EPIRB shall be registered with the appropriate authority associated with	MoMu0,1,2
	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	
d)	Every ship's 406 MHz EPIRB shall be water and manually activated.	MoMu0,1,2
e)	A list of registration numbers of 406 EPIRBs should be notified to event	MoMu0,1,2
<i>C)</i>	organizers and kept available for immediate use.	1101100,1,2
f)	Consideration should be given to the provision of a locator device (e.g. an	MoMu0,1,2
'/	"Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht	7 101 140/1/2
	is abandoned.	
g)	See OSR 3.29.1(e) for on-board D/F and OSR 5.07.1(b) for personal EPIRBs	МоМи0
<i>5)</i>	(PLBs)	
4.20	Liferafts	MoMu0,1,2
4.20.1	Liferaft Construction and Packed Equipment	
c)	A sufficient number of liferafts shall be provided so that in the event of one	MoMu0
	liferaft being lost or rendered unserviceable, adequate capacity remains for all	
	persons on board	
d)	Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version.	MoMu0
	Minimum Liferaft Equipment	
a)	A SOLAS liferaft shall contain as a minimum a SOLAS A pack;	MuMo0,1,2
4.20.3	Liferaft Packing and Stowage	MoMu0,1,2
a)	Each liferaft shall be packed either in:-	MoMu0,1,2
I	a rigid container securely stowed on the working deck, in the cockpit or in an	MoMu0,1,2
	open space; or:-	MaM. O 1 2
ii	a rigid container or valise securely stowed in a dedicated weather tight locker	MoMu0,1,2
	containing liferaft and abandon ship equipment only which is readily accessible and opens onto the cockpit or working deck, or transom	
c)	Liferaft stowage on a multihull and a monohull with moveable ballast shall be	MoMu0,1,2
c)	such that each liferaft may be readily removed and launched whether or not	140140,1,2
	the yacht is inverted.	
d)	The end of each liferaft painter line should be permanently made fast to a	MoMu0,1,2
u)	strong point on board the yacht.	1101100,1,2
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
-,	seconds.	
<i>b)</i>	Each liferaft of more than 40kg weight should be stowed in such a way that	MoMu0,1,2
-/	the liferaft can be dragged or slid into the sea without significant lifting	,2,2,2
4.20.5	Liferaft Servicing	MoMu0,1,2
a)	Liferafts shall be annually by a service station approved by the manufacturer.	Extract MoMu0
b)	Servicing certificates (original or a copy) shall be kept on board.	MoMu0,1,2
4.21.2	Grab Bags to Accompany Liferafts	, ,
a)	A yacht is recommended to have for each liferaft, a grab bag with the	MoMu0,1,2

condition in the event of rudder loss. At least one method must have been

<i>b)</i> 4.21.3	following minimum contents. A grab bag should have inherent flotation, at least 0.1 m^2 area of fluorescent orange colour on the outside, should be marked with the name of the yacht, and should have a lanyard and clip. Note: it is not intended to duplicate in a grab bag items required by other OSRs to be on board the yacht - these recommendations cover only the stowage of those items Grab Bag Recommended Contents	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	M-M.O 1 2
i)	second sea anchor for the liferaft (not required if the liferaft has already a spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm	MoMu0,1,2
<i>j)</i>	two safety tin openers (if appropriate)	MoMu0,1,2
<i>k)</i>	first-aid kit including at least 2 tubes of sunscreen. All dressings should be capable of being effectively used in wet conditions. The first-aid kit should be clearly marked and re-sealable.	MoMu0,1,2
<i>l)</i>	signalling mirror	MoMu0,1,2
m) n)	high-energy food (min 10 000kJ per person recommended for Cat Zero) nylon string, polythene bags, seasickness tablets (min 6 per person recommended)	MoMu0,1,2 MoMu0,1,2
0)	watertight hand-held aviation VHF transceiver (if race area warrants)	MoMu0,1,2
p)	water in re-sealable containers and a hand-operated desalinator	MoMu0
q) r)	hand-held satellite telephone with waterproof cover and internal batteries strobe light	MoMu0 MoMu0
5)	medical supplies including any for pre-existing medical conditions of any crew member	МоМи0
t)	spare unbreakable spectacles for any crew members needing them	МоМи0
<i>u)</i>	wet notebook with captive pencil	MoMu0 MoMu0
v) w)	powerful whistle (operated by mouth) 6 red SOLAS compliant parachute flares, 3 white parachute flares, 2 orange SOLAS compliant smoke flares, cyalume-type light sticks	МоМи0
<i>x)</i>	a watertight, high-powered torch (flashlight) with spare batteries and bulbs	МоМи0
<i>y)</i>	watertight hand-held EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0
<i>z)</i> 4.21.4	SART (Search and Rescue Transponder) Swimmer of the Watch Bag	<i>ΜοΜυθ</i> ΜοΜυθ
a)	It is recommended to keep a bag, stored ready for immediate use within reach of the main companionway hatch, to facilitate the recovery of a man overboard by a swimmer of the watch and containing-	МоМи0
b)	50 metres of buoyant 8mm rope	МоМиО
c)	a pair of swim fins	MoMu0
d) e)	a semi-automatic life jacket suitable clothing to effect a man overboard recovery in cold water	MoMu0 MoMu0
4.22	Lifebuoys	1101100
4.22.1	The following shall be provided within reach of the helmsman and ready for instant use:	**
a)	a lifebuoy with a self-igniting light and a drogue	**
b) i	In addition to a) above, one lifebuoy within reach of the helmsman and ready for instant use, equipped with: a whistle, a drogue, a self-igniting light and	MoMu0,1,2 MoMu0,1,2
ii	a pole and flag. The pole shall be either permanently extended or be capable of being fully automatically extended (not extendable by hand) in less than 20 seconds. It shall be attached to the lifebuoy with 3 m (10 ft) of floating line and is to be of a length and so ballasted that the flag will fly at least 1.8 m (6 ft) off the water.	MoMu0,1,2
iii	Each lifebuoy shall be equipped with a sachet of fluoresceine dye	MoMu0
4.22.2	When at least two lifebuoys (and/or Lifeslings) are carried, at least one of them shall depend entirely on permanent (e.g. foam) buoyancy.	MoMu0,1,2
4.22.3	Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended by compressed gas) shall be tested and serviced at intervals in accordance	**

	with its manufacturar's instruction	nc		
4.22.4	with its manufacturer's instructions.			**
7.22.7	Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective material (4.18).			
4.22.5	It is recommended that the color	ur of each lifehuov he a safe	aty colour in the	**
1.22.5	yellow-red range.	ar or each medady be a sare	ity colour in the	
4.23	Pyrotechnic and Light Signal	s		
4.23.1	Pyrotechnic signals shall be prov		SA Code Chapter	**
	III Visual Signals and not older t			
	expiry date stamped , not older t		(,)	
	red parachute flares LSA III	red hand flares LSA III	orange smoke	race
	3.1	3.2	LSA III 3.3	category
	6	4	2	MoMu0,1
	4	4	2	MoMu2,3
		4	2	Mo4
	2	4	2	Mu4
	TABLE 13			
4.24	Heaving Line			**
a)	a heaving line shall be provided	15 m - 25 m (50 ft - 75 ft) l	ength readily	**
	accessible to cockpit.			ded
<i>b)</i>	the "throwing sock" type is recor	mmended - see Appendix D		**
c)	A lifesling shall be provided			MoMu0,1,2,3
4.25	Cockpit Knife A strong, sharp knife, sheathed a	and cocuraly restrained shall	ho provided	**
	readily accessible from the deck		be provided	
4.26	Storm & Heavy Weather Sails	•		
4.26.1		•		
a)	it is strongly recommended t	hat persons in charge co	nsult their	**
	designer and sailmaker to de			
	and heavy weather sails. The	purpose of these sails is	s to provide safe	
	propulsion for the yacht in severe weather -they are not intended as			
	part of the racing inventory. The areas below are maxima. Smaller			
	areas are likely to suit some	yachts according to their	r stability and	
	other characteristics.			
4.26.2	•	highly visible salesmed week		**
a)	Every storm jib shall either be of	.	, , ,	77
	pink, orange or yellow) or have a the area of the sail (up to a max			
	and also that a rotating wing ma			
	on each side. A storm sail purcha	5 ,	-	
	material of the body of the sail a	,		
b)	it is strongly recommended that	5 ,	ner be made of or	**
	have a patch of highly visible con	our.		
4.26.3	Materials			
a)	aromatic polyamides, carbon and			**
	storm jib but spectra/dyneema a			
b)	it is strongly recommended that			**
4 26 4	polyamides, carbon and similar fibres other than spectra/dyneema.			
4.26.4	The following shall be provid		on:1.	**
a)	sheeting positions on deck for each storm or beauty weather	-	· · · · · · · · · · · · · · · · · · ·	**
b)	for each storm or heavy-weather independent of any luff-groove d			
	means of attachment readily ava			
	attachment permanently attache		Care means of	
	Storm and heavy weather jib are			
	(0.255 x luff length x (luff perpe		To apply to sails	
	made in January 2012 and after.		11 /	
c)	a storm trysail which shall be cap		endently of the	MoMu 0,1,2
	boom with trysail area not greate		•	· •

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.

d) the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail 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;

Extract MoMu 0,1,2

e) a storm jib of area not greater than 5% height of the foretriangle squared, with luff maximum length 65% height of the foretriangle;

f)

MoMu0,1,2

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. 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.

MoMu0,1,2

k) It is strongly recommended that an inner forestay is provided either permanently installed or readily set up, on which to set the storm jib.

MoMu0,1,2

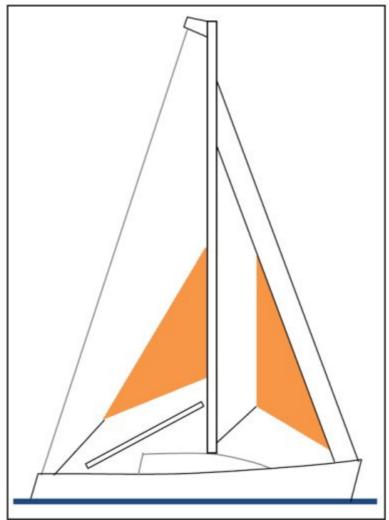


Figure 3 Droque, Sea Anchor

4.27

4.27.2 A drogue for deployment over the stern, or alternatively a sea anchor or parachute anchor for deployment at the bow, shall be provided complete with all gear needed to rig and deploy the sea anchor or drogue to withstand long

MoMu0,1 MoMu0

	noviode in rough conditions (see OCD Appendix E)	
4.28	periods in rough conditions (see OSR Appendix F) Man Overboard Alarm	MoMu0
4.28 .1	Each yacht shall be equipped with a man overboard alarm including an	MoMu0
7.20.1	emergency button immediately accessible to a helmsman which will sound an	1101140
	audible alarm in the accommodation and simultaneously send an appropriate	
	signal to the ship's navigational software	
4.28.2	A yacht shall be equipped with an EPFS (e.g. GPS) capable of recording a man	MoMu1,2
	overboard position within 10 seconds and monitoring that position.	,
4.29	Deck Bags	Mo0
4.29.1	OSR 4.29 shall apply only when RRS 51 moveable ballast is changed in the	Mo0
_	Notice of Race, Sailing Instructions or Class Rules to permit deck bags	
a)	A deck bag or bags may be provided for the stowage of sails on deck	Mo0
b)	A deck bag shall be:-	Mo0
 ::	so constructed to ensure rapid draining of water	Mo0
ii	securely fastened in such a way that the integrity of deck fittings e.g. stanchions and lifelines, is not compromised	Mo0
SECTIO	DN 5 - PERSONAL EQUIPMENT	
5.01	Lifejacket	
5.01.1	Each crew member shall have a lifejacket as follows:-	**
a)	Lastr draw manipar strain have a majacitet as renewe.	**
i	In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396	**
	or UL 1180	
ii	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.	
	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.	
LX	Wearing a Level 275 lifejacket may hamper entry into liferafts.	**
b)	fitted with either a crotch strap(s) / thigh straps or a full safety harness in	ተ ተ
	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,	**
h) :\	fitted with a splashguard / sprayhood in accordance with ISO 12402 – 8,	MoMu0
i)	Fitted with a PLB unit (as with other types of EPIRB, should be properly	MoMu0
5.01.2	registered with the appropriate authority) For every gas inflatable lifejacket a spare cylinder and if appropriate a spare	MoMu0
J.U1.Z	activation head shall be carried.	เกษานบ
5.01.3	Each yacht shall carry a spare lifejacket or lifejacket(s) as required in OSR	MoMu0
2.02.0	5.01.1 sufficient for at least 10% of the total number of persons on board	

5.01.4	(minimum one spare lifejacket). At least one of the required spare lifejacket(s) shall be a semi - automatic for use in man overboard recovery. The person in charge shall personally check each lifejacket at least once	**
	annually.	
5.02 5.02.1	Safety Harness and Safety Lines (Tethers) Each crew member shall have a harness and safety line that complies with 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.	MoMu0,1,2,3 MoMu0,1,2,3
a)	Warning it is possible for a plain snaphook to disengage from a U 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.	MoMu0,1,2,3
5.02.2	At least 30% of the crew shall each, in addition to the above be provided with either:-	MoMu0,1,2,3
a) b) c)	a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).	MoMu0,1,2,3 MoMu0,1,2,3 Mo0
5.02.3	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
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
<i>5.02.5</i>	It is strongly recommended that:-	MoMu0,1,2,3
a)	static safety lines should be securely fastened at work stations;	MoMu0,1,2,3
<i>b</i>)	A harness should be fitted with a crotch strap or thigh straps.	MoMu0,1,2,3
c)	to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material;	MoMu0,1,2,3
d)	snaphooks should be of a type which will not self-release from a U-bolt (see OSR 5.02.1(a)) and which can be easily released under load (crew members are reminded that a personal knife may free them from a safety line in emergency);	MoMu0,1,2,3
<i>e)</i>	a crew member before a race should adjust a harness to fit then retain that harness for the duration of the race.	MoMu0,1,2,3
5.02.6	Warning - a safety line and safety harness are not designed to tow a person in the water and it is important that the shortest safety line length possible be used with a harness to minimise or eliminate the risk of a person's torso becoming immersed in water outside the boat, especially 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.	**
5.03	Personal Location Lights	MoMu0
a)	two packs of miniflares or two personal location lights (either SOLAS or strobe) shall be provided for each crew member: one should be attached to, or carried on, the person when on deck at night.	MoMu0
5.04	Foul Weather Suits	MaNico
a) <i>b)</i>	a foul weather suit with hood shall be supplied to each crew member . it is recommended that a foul weather suit should be fitted with marine-grade retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs. See OSR 4.18	MoMu0 **
5.05	Knife A knife, one shall be supplied to each crew member to be worn on the person	MoMu0 MoMu0
	at all times	. 101 100
5.06	Watertight flashlight A buoyant watertight flashlight, one shall be supplied to each crew member.	MoMu0 MoMu0

5.07	Survival Equipment	Mo0,1,2Mu0,1,2,3,4
5.07.1	One set of Survival Equipment shall be supplied to each crew member to	MoMu0
a)	include:- an immersion suit (attention is drawn to EN ISO 15027-1 constant wear suits,	MoMu0
u)	and EN ISO 15027-2 abandonment suits and the LSA Code Chapter II, 2,3);	Mondo
b)	a PLB (Personal Locator Beacon) equipped with 406MHz and 121.5Mhz;	MoMu0
c)	a personal unit in addition to the PLB in OSR 4.07.1(b) if the location device	MoMu0
·	carried by the yacht in accordance with OSR 3.29.1(h) requires it;	
d)	Attention is drawn to the value of keeping on the person a combined	MoMu0,1,2
	406MHz/121.5MHz PLB when on deck: this may aid location in a man	
	overboard incident independent of the equipment carried by the parent vessel	
e)	Where possible every PLB shall be registered with the appropriate authority	MoMu0,1,2
	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	
5.08.1	A yacht shall carry at least two diving suits each to cover the entire body and	MoMu0
	including gloves, fins and portable air supplies.	
	N 6 - TRAINING	
6.01	At least 30% but not fewer than two members of a crew, including	MoMu1,2
	the skipper shall have undertaken training within the 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.	
6.01.2	Every member of a crew including the skipper shall have undertaken training	MoMu0
0.01.2	as in OSR 6.01	Mornad
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 further details.	
6.02	Training Topics for Theoretical Sessions	
6.02.1	care and maintenance of safety equipment	MoMu0,1,2
6.02.2 6.02.3	storm sails	MoMu0,1,2
6.02.4	damage control and repair heavy weather - crew routines, boat handling, drogues	MoMu0,1,2 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 6.03.3	fire precautions and use of fire extinguishers communications equipment (VHF, GMDSS, satcomms, etc.)	MoMu0,1,2 MoMu0,1,2
6.03.4	pyrotechnics and EPIRBs	MoMu0,1,2
6.04	Routine Training On-Board	**
6.04.1	It is recommended that crews should practice safety routines at reasonable	**
	intervals including the drill for man-overboard recovery	
6.05	Medical Training	MoMu0
6.05.1	At least one member of the crew shall have a valid STCW 95 A-VI/4-2	MoMu0
6.05.0	(Proficiency In Medical Care) certificate or equivalent	M - M - O
6.05.2	In addition to 6.05.1 another member of the crew	MoMu0
	shall have a first aid certificate completed within the last five years meeting	
i	any of the following requirements: A certificate listed on the ISAF website www.sailing.org/specialregs of MNA	
•	recognised courses	
ii	STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid or	
	higher STCW level	
<i>6.05.4</i>	An example model first aid training course is included in Appendix N.	**

6.06 Diving Training6.06.1 At least 30% of the crew shall have received appropriate diving training to

MoMu0

6.06.1 At least 30% of the crew shall have received appropriate diving training to enable them to carry out basic repairs underwater and to provide assistance if necessary in recovery of a man overboard

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 K - Moveable and Variable Ballast

Appendix M - Hull Construction Standards (Scantlings)

Appendix N - Model First Aid Training Course

APPENDIX M - Hull Construction Standards (Scantlings) (Monohulls pre-2010 and Multihulls)

MoMu0,1,2 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
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 shall have been designed built, maintained, MoMu0,1,2 modified and repaired in accordance with the requirements of either:

a) the EC Recreational Craft Directive for Category A (having obtained the CE MoMu0,1,2 mark), or

b) the ABS Guide for Building and Classing Offshore Yachts in which case the yacht shall have on board either a certificate of plan approval issued by ABS, or written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ABS Guide,

c) ISO 12215 Category A, with written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ISO standard.

d) except that a race organizer or class rules may accept when that described in (a), (b), or (c) above is not available, the signed statement by a naval architect or other person familiar with the standards listed above that the yacht fulfills the requirements of (a), (b), or (c).

Any significant repairs or modifications to the hull, deck, coachroof, keel or appendages, on a yacht defined in table 2 shall be certified by one of the methods above and an appropriate written statement or statements shall be on board.

MoMu0,1,2

MoMu0,1,2

MoMu0,1,2

end of file