World Sailing Offshore Special Regulations

Extract for Race Category 4 Multihulls JANUARY 2016- DECEMBER 2017

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

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Official interpretations shall take precedence over these Special Regulations and will be indexed, numbered, dated and displayed on the World Sailing web site www.sailing.org/specialregs

Language & Abbreviations Used

Mo - Monohull

Mu - Multihull

" ** " means the item applies to all types of boat in all Categories except 5 for which see Appendix B or 6 for which see Appendix C.

RED TYPE indicates significant changes in 2016

Guidance notes and recommendations have been removed from the Regulations and are available on www.sailing.org/documents/offshorespecialregs/index.php

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

Administration

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

World Sailing Regulation 6.9.8.3 - The Special Regulations Sub-Committee shall: (a) be responsible for the maintenance, revision and changes to the World Sailing Offshore Special Regulations governing offshore racing, under licence from ORC Ltd. Such changes shall be biennial with revised editions published in January of each even year, except that matters of an urgent nature affecting safety may be dealt with by changes to the Regulations on a shorter time scale; (b) monitor developments in offshore racing relative to the standards of safety and seaworthiness.

Any queries please E-Mail: technical@isaf.co.uk

SECTION 1 - FUNDAMENTAL AND DEFINITIONS

| | 1.01 | Purpose and Use |
|----|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** | 1.01.1 | The purpose of the Offshore Special Regulations (OSR) is to establish uniform minimum equipment, accommodation and training standards for monohull and multihull (excluding proa) boats racing offshore. |
| ** | 1.01.2 | The OSR do not replace, but rather supplement, the requirements of governmental authority, Classification Society certification, the Racing Rules of Sailing (RRS), Equipment Rules of Sailing (ERS), class rules and Rating Systems. |
| ** | 1.01.3 | Use of the OSR does not guarantee total safety of the boat and her crew. Particular attention is drawn to the description of OSRs for inshore racing which includes that adequate shelter and or effective rescue is available all along the |

course. This is not included in more onerous OSR categories.

- 1.02 Responsibility of Person in Charge
- 1.02.1 Under RRS 4 the responsibility for a boat's decision to participate in a race or continue racing is hers alone. The safety of a boat and her crew is the sole and inescapable responsibility of the Person in Charge who shall do his best to ensure that the boat is fully found, thoroughly seaworthy and manned by an experienced and appropriately trained crew who are physically fit to face bad weather. The person in charge shall also assign a person to take over his responsibilities in the event of his incapacitation.
- 1.02.2 Neither the establishment of the OSR, nor their use by Organizing Authorities, nor the inspection of a boat under the OSR in any way limits or reduces the complete and unlimited responsibility of the Person in Charge.

1.03 Definitions, Abbreviations, Word Usage

1.03.1 Definitions of Terms used in this document

TABLE 1

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Pound force (lbf)

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

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

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

is flooded or filled to overflowing.

COLREGS International Regulations for Preventing Collisions at Sea

Contained A cockpit where the combined area open aft to the sea is less than

Cockpit 50% maximum cockpit depth x maximum cockpit width

CPR Cardio-Pulmonary Resuscitation

Crewmember Every person on board DSC Digital Selective Calling

EN European Norm

EPIRB Emergency Position-Indicating Radio Beacon

ERS ISAF - Equipment Rules of Sailing

FA Station The transverse station at which the upper corner of the transom

meets the sheerline.

First Launch Month & year of first launch of the individual boat

Foul-Weather Clothing designed to keep the wearer dry and may consist of one

Suit piece or several

GMDSS Global Maritime Distress & Safety System

GNSS Global Navigation Satellite System
GPIRB EPIRB, with integral GPS position-fixing

GPS Global Positioning System

Hatch The term hatch includes the entire hatch assembly including the lid or

cover as part of that assembly

HMPE High Modulus Polyethylene (Dyneema®/Spectra® or equivalent)

IMO International Maritime Organisation

IMSO The International Mobile Satellite Organisation, the independent,

intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these

to IMO

INMARSAT Inmarsat Global Limited is the private company that provides GMDSS

satellite distress and safety communications, plus general

communications via voice, fax and data

ISAF International Sailing Federation- (now World Sailing)

ISO International Standard Organization or International Organization for

Standardization.

ITU International Telecommunications Union

Jackstay A securely fastened webbing or rope which permits a crewmember to

move from one part of the boat to another without having to unclip a

safety harness tether.

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

LH Hull Length as defined by the ERS

LSA IMO International Life-Saving Appliance Code

LWL (Length of) loaded waterline

Monohull A boat with one hull

Moveable Lead or other material including water which has no practical function Ballast in the boat other than to increase weight and/or to influence stability

and/or trim and which may be moved transversely but not varied in

weight while a boat is racing.

Multihull A boat with more than one hull

Open Cockpit A cockpit that is not a Contained Cockpit.

ORC Offshore Racing Congress (formerly Offshore Racing Council)

OSR Offshore Special Regulation(s)

Permanently Means the item is effectively built-in by e.g. bolting, welding, glassing

Installed etc. and may not be removed for or during racing.

PLB Personal Locator Beacon

Primary Month & Year of first launch of the first boat of the production series

Launch or first launch of a non-series boat

Proa Asymmetric Catamaran

Rode Rope, chain, or a combination of both, which is used to connect an

anchor to the boat.

RRS ISAF - Racing Rules of Sailing

Safety Line A tether used to connect a safety harness to a strong point

SAR Search and Rescue

SART Search and Rescue Transponder

Securely Held strongly in place by a method (e.g. rope lashings, wing-nuts) which will safely retain the fastened object in severe conditions

including a 180 degree capsize and allows for the item to be removed

and replaced during racing

SOLAS Safety of Life at Sea Convention

SSS The Safety and Stability Screening numeral

Static Ballast Material carried for the sole purpose of increasing weight and/or to

influencing stability and/or trim and which is not moved or varied in

weight while a boat is racing

Static Safety A safety line (usually shorter than a safety line carried with a harness)

Line kept clipped on at a work-station STIX ISO 12217-2 Stability Index

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

racina.

Waterline The water surface when the boat is floating in measurement trim

World Sailing formerly the International Sailing Federation or ISAF

1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are

permissive.

1.03.3 The word "yacht" shall be taken as fully interchangeable with the word "boat".

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

2.01 Categories of Events

Organizing Authorities shall select from one of the following categories and may modify the OSR to suit local conditions

2.01.5 Category 4

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MoMu,4 Short races, close to shore in relatively warm or protected waters normally held in daylight.

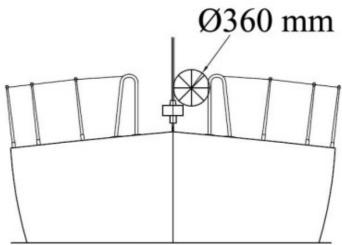
2.02 Inspection

** A boat may be inspected at any time. If she fails to comply with the OSR her

| | | entry may be rejected or she will be subject to protest |
|---------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2.03 | General Requirements |
| ** | 2.03.1 | All equipment required by OSR shall: |
| ** | a) | function properly |
| ** | b) | be regularly checked, cleaned and serviced |
| ** | c) | when not in use be stowed in conditions in which deterioration is minimised |
| ** | d) | be readily accessible |
| ** | e) | be of a type, size and capacity suitable and adequate for the intended use and |
| | | size of the boat. |
| ** | 2.03.2 | Heavy items shall be permanently installed or securely fastened |
| | TRUCTUR | RAL FEATURES, STABILITY, FIXED EQUIPMENT |
| ** | | A boat shall be/have: |
| | 3.01 | Strength of Build and Rig |
| ** | 3.01.1 | Properly rigged, fully seaworthy and shall meet the OSR |
| ** | 3.01.2 | Equipped with shrouds and at least one forestay that shall remain connected to |
| | | the mast and the boat while racing |
| | 3.02 | Watertight Integrity of a Boat |
| ** | 3.02.1 | Essentially watertight and all openings shall be capable of being immediately |
| | | secured. Centreboard, daggerboard trunks and the like shall not open into the |
| | | interior of a hull except via a watertight maintenance hatch with the opening |
| | | entirely above the Waterline |
| Mu0,1,2,3,4 | 3.05 | Stability and Flotation - Multihulls |
| Mu0,1,2,3,4 | 3.05.1 | Watertight bulkheads and compartments (which may include permanently |
| | | installed flotation material) in each hull, to ensure that the boat is effectively |
| | | unsinkable and capable of floating in a stable position with at least half the |
| | | length of one hull flooded (see OSR 3.13.2) |
| Mu0,1,2,3,4 | 3.05.2 | Transverse watertight bulkheads at intervals of not more than 4 m (13'-3") in |
| / / / - / | | every hull without accommodation if with a First Launch after 1998 |
| Mu0,1,2,3,4 | 3.05.3 | Designed and built to resist capsize |
| Mu0,1,2,3,4 | 3.07 | Exits and Escape Hatches - Multihulls |
| | 3.07.1 | Exits |
| Mu4 | | At least two exits in each hull which contains accommodations if 8 m (26'-3") |
| | | LH and greater |
| | 3.07.2 | Escape Hatches, Underside Clipping Points & Handholds |
| Mu0,1,2,3,4 | a) | If 12 m (39'-4") LH and greater each hull which contains accommodation: |
| Mu0,1,2,3,4 | i | an escape hatch for access to and from the hull in the event of an inversion; |
| Mu0,1,2,3,4 | ii | a minimum clearance diameter through each escape hatch of 450 mm (18") or |
| | | when an escape hatch is not circular, sufficient clearance to allow a |
| | | The state of the s |
| Mu0,1,2,3,4 | | crewmember to pass through fully clothed on boats if First Launch after 2002 |
| | iii | crewmember to pass through fully clothed on boats if First Launch after 2002 each escape hatch above the waterline when the boat is inverted: |
| | iii iv | each escape hatch above the waterline when the boat is inverted; |
| Mu0,1,2,3,4 | iv | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 |
| | | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran |
| Mu0,1,2,3,4 Mu0,1,2,3,4 | iv V | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 |
| Mu0,1,2,3,4 | iv | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 |
| Mu0,1,2,3,4 Mu0,1,2,3,4 | iv V | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) d) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) d) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) d) e) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) d) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely if less than 12 m (39'-4") LH either escape hatches in compliance with OSR |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu2,3,4 | iv v b) c) d) e) 3.07.3 | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely if less than 12 m (39'-4") LH either escape hatches in compliance with OSR 3.07.2 a), b) and c) or: |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 | iv v b) c) d) e) | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely if less than 12 m (39'-4") LH either escape hatches in compliance with OSR 3.07.2 a), b) and c) or: in each hull which contains accommodation, a station where an emergency |
| Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4 Mu2,3,4 | iv v b) c) d) e) 3.07.3 | each escape hatch above the waterline when the boat is inverted; each escape hatch at or near the midships station if First Launch after 2000 each escape hatch on the side nearest the vessel's central axis for a catamaran if First Launch after 2002 if a trimaran at least two escape hatches in compliance with the dimensions in OSR 3.07.2 a) ii if 12 m (39'-4") LH and greater if First Launch after 2002 each escape hatch shall have been opened both from inside and outside within 6 months prior to the race appropriate handholds/clipping points on the underside sufficient for all crew (on a trimaran these shall be around the central hull) a catamaran with a central nacelle first launched after 2002 shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely if less than 12 m (39'-4") LH either escape hatches in compliance with OSR 3.07.2 a), b) and c) or: |

| Mu2,3,4 | b) | tools suitable for cutting the emergency hatch, ready for instant use, adjacent to the cutting site. Each tool shall be secured to the vessel by a lanyard. |
|----------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 3.08 | Hatches & Companionways |
| ** | 3.08.1 | Hatch covers forward of the maximum beam station shall not open toward the interior of the boat, except hatches in the side of a coachroof or ports having an area of less than 0.071 m ² (110 in ²) |
| ** | 3.08.2 | Hatches not conforming with 3.08.1 shall be clearly labelled and used in accordance with the following instruction "NOT TO BE OPENED AT SEA" |
| ** | 3.08.3 | A hatch, including a hatch over a locker shall be: |
| ** | a) | permanently attached and capable of being firmly shut immediately and remaining firmly shut in a 180° capsize |
| ** | 3.08.4 | Companionway hatches: |
| ** | a) | fitted with a strong securing arrangement which shall be operable from the exterior and interior even when the boat is inverted |
| ** | b) | blocking devices: |
| ** | i | capable of being retained in position with the hatch open or shut |
| ** | ii | secured to the boat (e.g. by lanyard) for the duration of the race |
| ** | iii | permit exit in the event of inversion |
| Mu0,1,2,3,4 | 3.08.7 | if a multihull with a companionway hatch extending below the local sheerline either: |
| Mu0,1,2,3,4 | a) | have a minimum sill height of 300 mm (12") and be capable of being blocked off up to the level of the local sheerline whilst giving access to the interior with the blocking device(s) in place; or |
| Mu4 | | be in compliance with ISO 11812 to design category B |
| | 3.09 | Cockpits |
| ** | 3.09.1 | Cockpits that self-drain quickly by gravity at all angles of heel and are permanently incorporated as an integral part of the boat |
| ** | 3.09.2 | A cockpit sole at least 2% LWL above the waterline (or in IMS boats with First Launch before 2003, at least 2% L above the waterline) |
| ** | 3.09.3 | A bow, lateral, central or stern well is a cockpit for the purposes of OSR 3.09 |
| ** | 3.09.7 | Cockpit Volume |
| ** | | The maximum combined volume below lowest coamings of all contained cockpits shall be: |
| Extract | | primary launch before April 1992: 9% (LWL x maximum beam x freeboard |
| MoMu2,3,4 | | abreast the cockpit) |
| ** | b) | primary launch after March 1992 as above for the appropriate category except that "lowest coamings" shall not include any aft of the FA station and no extension of a cockpit aft of the working deck shall be included in calculation of |
| | 2 00 0 | cockpit volume |
| ** | 3.09.8 | Cockpit Drains Cockpit drain cross section area of unobstructed openings (after allowance for |
| dede | | screens if fitted) shall be at least that of: |
| ** | a) | 2 x 25 mm (1") diameter or equivalent for a boat less than 8.5 m (28') LH |
| ** | b) | 4 x 20 mm (3/4") diameter or equivalent for a boat 8.5 m (28') LH or greater |
| 4.4 | 3.10 | Sea Cocks or Valves |
| ** | | Permanently installed sea cocks or valves on all through-hull openings below |
| | | the waterline except for integral deck scuppers and instrument through-hulls |
| 4.4 | 3.11 | Sheet Winches |
| ** | | Sheet winches 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 securely fastened to the mast step or adjoining structure |
| | 3.13 | Watertight Bulkheads |
| Mo0Mu0,1,2,3,4 | 3.13.1 | Either a watertight "crash" bulkhead within 15% of LH from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LH of the hull |
| | | E |

| Mo0Mu0,1,2,3,4 | 3.13.2 | Any required watertight bulkhead to be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment |
|----------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 3.14 | Pulpits, Stanchions, Lifelines |
| ** | 3.14.1 | The perimeter of the deck surrounded by system of lifelines and pulpits as follows: |
| ** | a) | Continuous lifelines fixed only at (or near) the bow and stern. However a gate on each side of a boat is permitted. Except at its end fittings and at gates, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving shall not modify tension in the lifeline. |
| ** | b) | Minimum heights of lifelines and pulpit rails above the working deck and vertical openings: |
| ** | i | upper: 600 mm (24") |
| ** | ii | intermediate: 230 mm (9") |
| ** | iii | vertical opening: no greater than 380 mm (15") except that on a boat with a Primary Launch before 1993 where it shall be no greater than 560 mm (22") |
| MoMu3,4 | iv | a boat less than 8.5 m (28') LH may use a single lifeline system with a height between 450 mm (18") and 560 mm (22") |
| ** | c) | Lifelines permanently supported at intervals of not more than 2.2 m (7'-2 1/2") and shall not pass outboard of supporting stanchions |
| ** | d) | Pulpit and stanchion bases permanently installed with pulpits and stanchions mechanically retained in their bases |
| ** | e) | The outside of pulpit and stanchion base tubes no further inboard from the edge of the working deck than 5% of maximum beam or 150 mm (6"), whichever is greater, nor further outboard than the edge of the working deck |
| ** | f) | Stanchions straight and vertical except that: |
| ** | i | within the first 50 mm (2") from the deck, stanchions shall not be displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8") |
| ** | ii | stanchions may be angled to not more than 10° from vertical at any point above 50 mm (2") from the deck |
| ** | g) | A bow pulpit may be open provided the opening between the pulpit and any part of the boat does not exceed 360 mm (14") |
| ** | | |



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

** ii 120 mm (4 ¾") for an intermediate lifeline Mu0,1,2,3,4 3.14.2 Special Requirements for Pulpits, Stan

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Mu0,1,2,3,4 3.14.2 Special Requirements for Pulpits, Stanchions, Lifelines on Multihulls When on a boat it is impractical to precisely follow OSR regarding pulpits,

| | | | | egulations for monohul | Is shall be followed as closely |
|-------------|-------------------------|------------|--------------------|--------------------------|----------------------------------------------------------------------|
| | | as possib | | | |
| | 3.14.3 | Spare nu | | | |
| | 3.14.4 | Spare nu | | | |
| | 3,14.5 3.14.6 | Spare nu | Specifications | | |
| ** | 3.14.0 | | of either: | | |
| Mo4,Mu** | ii | | | hvlene (HMPF) (Dvneer | ma®/Spectra® or equivalent) |
| | | rope | | | na Oyopodia O o oquivalenty |
| ** | b) | | mum diameter is | specified in table 8 bel | ow |
| ** | c) | Stainless | steel lifelines sh | all be uncoated and use | ed without close-fitting sleeving, |
| | | - | • | ving may be fitted provi | ded it is regularly removed for |
| | | inspectio | | | |
| ** | d) | | | | re lifelines provided the gap it |
| ** | ۵) | | | | d shall be replaced annually |
| 1 | e) | • | nan the lifeline | sime endosure system s | hall have a breaking strength |
| Mo4,Mu** | f) | | | all he protected from cl | nafe and spliced in accordance |
| 1 10 1,1 10 | 1) | | | ecommended procedure | |
| ** | | | - Minimum Diam | • | |
| | LOA | | wire | HMPE rope (Single | HMPE Core (Braid on |
| | | | | braid) | braid) |
| | under 8 | 8.5m | 3mm (1/8 in) | 4mm (5/32 in) | 4mm (5/32 in) |
| | (28ft) 8.5m - | 12m | 4mm (E/22 | Fmm (2/16 in) | Fmm (2/16 in) |
| | 0.5111 - | 13111 | 4mm (5/32 in) | 5mm (3/16 in) | 5mm (3/16 in) |
| | over 13 | 3m (43 ft) | • | 5mm (3/16in) | 5mm (3/16in) |
| Mu0,1,2,3,4 | 3.15 | | Il Nets or Tram | | 3 (3, 13) |
| Mu0,1,2,3,4 | 3.15.1 | | | angeable with the word | "trampoline" |
| Mu0.1.2.3.4 | | A net sha | | | |
| Mu0,1,2,3,4 | a) | | ly horizontal | | |
| Mu0,1,2,3,4 | b) | | | | eable fabric, or mesh with |
| | | | | | sion. Attachment points shall be net and a boat shall present no |
| | | | ot trapping | ne junction between a i | net and a boat shall present no |
| Mu0,1,2,3,4 | c) | | | ervals on transverse an | d longitudinal support lines and |
| | ٥, | | ine-stitched to a | | a longitualilar support ililes alla |
| Mu0,1,2,3,4 | d) | able to c | arry the full weig | ht of the crew either in | normal working conditions at |
| | | | • | when the boat is inverte | ed. |
| | 3.15.2 | | ns with Double | | |
| MO 1 2 2 4 | -1 | | | | ets on each side covering:- |
| Mu0,1,2,3,4 | a) | | • | rossbeams, central hull | |
| Mu0,1,2,3,4 | b) | | • | | I pulpit, the mid-point of each rossbeam and the central hull |
| Mu0,1,2,3,4 | c) | | • | | cockpit or steering position |
| | ٥, | | • | - | after crossbeam, and the |
| | | • | · · | eam and the central hul | |
| Mu0,1,2,3,4 | d) | • | | | when cockpit coamings and/or |
| | | | | · · | num height requirements. |
| M 0 1 2 2 1 | 3.15.3 | | ns with Single | | |
| Mu0,1,2,3,4 | | | _ | | ets between the central hull and |
| | | | | | t lines from the intersection of the aft end of the pulpit on the |
| | | | | | ckpit or steering position on the |
| | | | ull (whichever is | • | |
| | 3.16 | Catama | rans | • | |
| Mu0,1,2,3,4 | | On a cata | amaran the total | net surface shall be lim | ited: |
| | | | - | , | |

| Mu0,1,2,3,4 | a) | laterally by the hulls; and |
|----------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mu0,1,2,3,4 | b) | longitudinally by transverse stations through the forestay base, and the |
| / / / - / | - / | 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 |
| MoMu3,4 | 3.18.2 | Permanently installed toilet or fitted bucket |
| 1101145,1 | 3.19 | Bunks |
| MoMu1,2,3,4 | 3.19.2 | Permanently installed bunks |
| 1101111,2,3,4 | 3.13.2 3.21 | Drinking Water Tanks & Drinking Water |
| | 3.21.1 | Drinking Water Tanks & Drinking Water Drinking Water Tanks |
| | 3.22 | Hand Holds |
| ** | 3.22 | |
| 1,11,1 | 2 22 | Adequate hand holds fitted below deck |
| ** | 3.23 | Bilge Pumps and Buckets |
| <i>ተ</i> ተ | 3.23.1 | two strong buckets, each with a lanyard and of at least 9 I (2.4 US Gal) capacity |
| M-0 1 2 2 4 | a) | and the second set all makes the beautiful and the second of the second black of the second set of the second set of the second |
| Mu0,1,2,3,4 | c) | provision to pump out all watertight compartments (except those filled with |
| ale ale | 2 22 2 | impermeable buoyancy). |
| ** | 3.23.2 | All required permanently installed bilge pumps shall be operable with all cockpit |
| | | seats, hatches and companionways shut and with permanently installed |
| | | discharge pipe(s) of sufficient capacity |
| ** | 3.23.3 | Bilge pumps shall not be connected to cockpit drains and shall not discharge |
| | | into a Closed Cockpit |
| ** | 3.23.4 | Bilge pumps shall be readily accessible for maintenance and for clearing out |
| | | debris |
| ** | 3.23.5 | All removable bilge pump handles retained by a lanyard |
| | 3.24 | Compass |
| MoMu0,1,2,3,4 | a) | Permanently installed marine magnetic steering compass, independent of any |
| | | power supply, correctly adjusted with deviation card |
| | 3.25 | Halyards. |
| ** | | A minimum of two halyards, each capable of hoisting a sail, on each mast |
| | 3.27 | Navigation Lights |
| ** | 3.27.1 | mounted above sheerline and so that they will not be masked by sails or the |
| | | heeling of the boat |
| ** | 3.27.2 | having light intensity meeting COLREGS. When incandescent bulbs are used the |
| | | minimum power rating shall be: |
| ** | a) | For LH less than 12 m (39'-4"), 10 W |
| ** | b) | For LH 12 m (39'-4") and greater, 25 W |
| ** | 3.27.4 | spare bulbs (not required for LED) |
| | 3.28 | Engines, Generators, Fuel |
| | 3.28.1 | Propulsion Engines |
| ** | a) | engines and associated systems installed in accordance with their |
| | , | manufacturers' guidelines and suitable for the size and intended use of the boat |
| ** | d) | an inboard engine shall have a permanently installed exhaust, cooling system, |
| | - / | fuel supply, fuel tank(s) and shall have adequate heavy weather protection |
| | 3.28.2 | Generator |
| ** | | If an optional generator separate from the propulsion engine is carried, it shall |
| | | be installed in accordance with the manufacturer's guidelines |
| | 3.29 | Communications Equipment, GPS, Radar, AIS |
| MoMu1,2,3,4 | 3.29.05 | a hand-held marine VHF transceiver, watertight or with a waterproof cover. |
| | 5.25.05 | When not in use to be stowed in a grab bag or emergency container (see OSR |
| | | 4.21) |
| ** | 3.29.06 | a second radio receiver, which may be the handheld VHF in 3.29.5 above, |
| | 5.25.00 | capable of receiving weather bulletins |
| SECTION 4 - PO | ORTARI F | · |
| SECTION T - PO | VIXIADEL | Δ hoat shall have: |

A boat shall have:

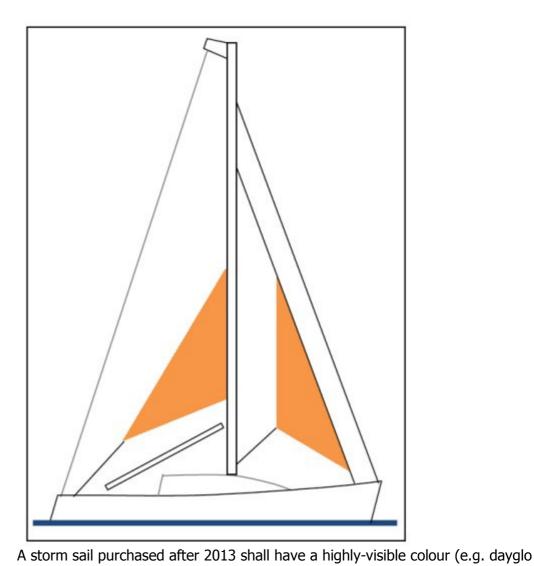
4.01 Sail Letters & Numbers

** 4.01.1 Identification on sails which complies with RRS 77 and RRS Appendix G

| | 4.02 | Search and Rescue Visibility |
|---------------|--------|---------------------------------------------------------------------------------------------------------|
| Mo1,Mu1,2,3,4 | 4.02.1 | A solid area of highly-visible pink, orange or yellow |
| Mu0,1,2,3,4 | 4.02.2 | A 1 m ² (11 ft ²) area of highly-visible pink, orange or yellow showing when the |
| 1100,1,2,5,1 | 1.02.2 | boat is inverted |
| | 4.03 | Soft Wood Plugs |
| ** | T.03 | A tapered soft wood plug stowed adjacent to every through-hull opening |
| | 4.04 | Jackstays and Clipping Points |
| | 4.05 | Fire Fighting Equipment |
| ** | 4.05.1 | A fire blanket adjacent to every cooking device with an open flame |
| MoMu4 | 4.05.1 | 2 fire extinguishers in different parts of the boat |
| MOMUA | 4.06 | Anchors |
| MaMud | 4.00 | |
| MoMu4 | 4.07 | 1 suitable anchor with suitable combination of chain and rope, readily accessible |
| ** | 4.07 | Flashlights and Searchlights |
| | -1 | Watertight lights with spare batteries and bulbs as follows: |
| Mu3,4 | c) | the watertight flashlight in OSR 4.07 b) shall be stowed in the grab bag or |
| | 4.00 | emergency container |
| slesle | 4.08 | First Aid Manual and First Aid Kit |
| ** | | A First Aid Manual and First Aid Kit. The contents and storage of the First Aid Kit |
| | | shall reflect the likely conditions and duration of the passage, and the number |
| | | of crew |
| 11 | 4.09 | Foghorn |
| ** | | A foghorn |
| | 4.10 | Radar Reflector |
| ** | 4.10.1 | A passive radar reflector with: |
| ** | a) | octahedral circular plates of minimum diameter 30 cm (12"), or |
| ** | b) | octahedral rectangular plates of minimum diagonal dimension 40 cm (16"), or |
| ** | c) | a non-octahedral reflector with a documented Root Mean Square minimum |
| | | Radar Cross Section (RCS) area of 2 m ² (22 ft ²) from 0-360° of azimuth and |
| | | ±20° of heel |
| | 4.11 | Navigation Equipment |
| ** | | Navigational charts (not solely electronic), light list and chart plotting equipment |
| | 4.12 | Safety Equipment Location Chart |
| ** | | A safety equipment location diagram in durable waterproof material, clearly |
| | | displayed in the main accommodation, marked with the location of principal |
| | | items of safety equipment |
| | 4.13 | Depth, Speed and Distance Instruments |
| MoMu,1,2,3,4 | 4.13.2 | A depth sounder |
| | 4.14 | Spare Number |
| | 4.15 | Emergency Steering |
| | 4.16 | Tools and Spare Parts |
| ** | 4.16.1 | Tools and spare parts, suitable for the duration and nature of the passage |
| ** | 4.16.2 | An effective means to quickly disconnect or sever the standing rigging from the |
| | | boat |
| | 4.17 | Boat's name |
| ** | | The boat's name on miscellaneous buoyant equipment, such as lifejackets, |
| | | cushions, lifebuoys, recovery slings, grab bags etc. |
| | 4.18 | Retro-reflective material |
| ** | | Marine grade retro-reflective material on lifebuoys, recovery slings, liferafts and |
| | | lifejackets |
| | 4.19 | EPIRBs |
| | 4.20 | Liferafts |
| | 4.20.1 | Liferaft Construction |
| | 4.20.2 | Minimum Liferaft Equipment |
| | 4.20.3 | |
| | 4.20.4 | • |
| | 4.21 | Grab Bags |
| Mu3,4 | - | Either a watertight compartment or a grab bag, readily accessible whether or |
| , | | 9 |
| | | |
| | | |

| | | not the | boat is inverted, with the following | g minimum contents: | | | |
|------------|--------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------|--|--|--|
| Mu3,4 | a) | a watertight hand-held marine VHF transceiver with spare batteries | | | | | |
| Mu3,4 | b) | | a watertight flashlight with spare batteries and bulb | | | | |
| Mu3,4 | c) | • | 2 red parachute and 3 red hand flares | | | | |
| Mu3,4 | d) | | tight strobe light with spare batter | ies | | | |
| Mu3,4 | e) | a knife | | | | | |
| ** | f) | If a grab bag is provided it shall have inherent flotation, at least 0.1 m ² (1 ft ²) | | | | | |
| | | | fluorescent orange colour on the o | • | | | |
| | | | f the boat, and shall have a lanyar | d and clip | | | |
| | 4.22 | | verboard Recovery | | | | |
| ** | | | each of the helmsman and ready f | | | | |
| ** | 4.22.1 | | by with a self-igniting light and a d | | | | |
| ** | 4.22.4 | | Each inflatable lifebuoy and any automatic device shall be tested and serviced | | | | |
| | | | als in accordance with its manufac | | | | |
| ** | 4.22.5 | | | iameter, 15 - 25 m (50 - 75') long, | | | |
| | 4 | • | accessible to cockpit | | | | |
| ** | 4.23 | - | chnic and Light Signals | | | | |
| * * | 4.23.1 | • | • | orming to SOLAS LSA Code Chapter | | | |
| | | III Visual Signals and not older than the stamped expiry date (if any) or if no | | | | | |
| J | | | ate stamped , not older than 4 year | | | | |
| | | ategory | red hand flares LSA III 3.2 | orange smoke LSA III 3.3 | | | |
| | MoMu(| • | 4 4 | 2 | | | |
| | MoMu2 Mo4 | 2,3 | 4 | 2 | | | |
| | Mu4 | | | 2 | | | |
| | 4.24 | Cnaro M | umbor | 2 | | | |
| | 4.25 | Spare N Cockpi | | | | | |
| ** | 4.23 | | | ely restrained shall be provided readily | | | |
| | | | ole from the deck or a cockpit. | ery restrained shall be provided readily | | | |
| | 4.26 | | & Heavy Weather Sails | | | | |
| | 4.26.1 | Design | | | | | |

4.26.1 Design Figure 3



| ** | a) | A storm sail purchased after 2013 shall have a highly-visible colour (e.g. daygle |
|----------------|------------|-----------------------------------------------------------------------------------|
| | | pink, orange or yellow) |
| ** | b) | Aromatic polyamides, carbon and similar fibres shall not be used in a trysail or |
| | | storm jib but HMPE and similar materials are permitted |
| ** | c) | Sheeting positions on deck for each storm and heavy-weather sail |
| ** | ď) | Sheeting positions for the trysail independent of the boom |
| ** | e) | Storm and heavy weather jib areas calculated as: (0.255 x luff length x (luff |
| | -, | perpendicular + 2 x half width)) * |
| ** | | * Applies to sails made after 2011 |
| | 4.26.2 | Sails |
| ** | 112012 | The maximum area of storm sails shall be lesser of the areas below or as |
| | | specified by the boat designer or sailmaker |
| MoMu4 | | Either mainsail reefing to reduce the luff by 12.5% or a heavy-weather jib (or |
| MoMu | | |
| ■ ** | : | heavy-weather sail in a boat with no forestay) with: |
| ** | ! :: | area of 13.5% height of the foretriangle (IG) squared |
| ጥጥ | ii 4 20 | readily available means, independent of a luff groove, to attach to the stay |
| | 4.28 | Spare Number |
| Deck Bags | | |
| ded | | SECTION 5 - PERSONAL EQUIPMENT |
| ** | | Each crew member shall have: |
| ** | 5.01 | Lifejacket |
| ** | 5.01.1 | A lifejacket which shall: |
| ** | a) | |
| ** | i) | if manufactured before 2012 comply with ISO 12402 - 3 (Level 150) or |
| | | equivalent, including EN 396 or UL 1180 and: |
| ** | | if inflatable have a gas inflation system |
| ** | | have crotch/thigh straps (ride up prevention system (RUPS)) |
| | | |

| ** | | if we wished a few 2011 as well with ICO 12402 2 (Level 150) and be fitted |
|----------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| ጥ | ii | if manufactured after 2011 comply with ISO 12402-3 (Level 150) and be fitted |
| | | with a whistle, lifting loop, reflective material automatic/manual gas inflation |
| ** | | system system (PLIPS)) |
| ** | 6) | crotch/thigh straps (ride up prevention system (RUPS)) |
| ** | c) 5.01.4 | be clearly marked with the boat's or wearer's name The person in charge shall personally check each life jacket at least once. |
| ale de | 5.01.4 | |
| | 5.07 | annually. Survival Equipment |
| | 5.07 | SECTION 6 - TRAINING |
| | 6.01.3 | Spare Number |
| | 6.02 | Spare Number |
| | 6.03 | Spare Number |
| | 6.04 | Routine Training On-Board |
| ** | 0.0-1 | Crews shall practice the drill for Crew-Overboard Recovery at least annually |
| | 6.05 | Medical Training |
| MoMu3,4 | 6.05.3 | At least one member of the crew shall be familiar with First Aid procedures, |
| , | | hypothermia, drowning, cardio-pulmonary resuscitation and relevant |
| | | communications systems |
| | 6.06 | Diving Training (|
| | | APPENDICES TO SPECIAL REGULATIONS |
| | | Appendix A - Moveable and Variable Ballast |
| | | Appendix B - For Inshore Racing |
| | | Appendix C - For Inshore Dinghy Racing |
| | | Appendix D - A guide to ISO and other Standards |
| | | Appendix E - World Sailing Code for the organisation of Oceanic Races |
| | | Appendix F - Standard Inspection Card |
| | | Appendix G - Model Training Course |
| | | Appendix H - Model First Aid Training Course |
| | | Appendix J - Hypothermia |
| | | Appendix K - Drogues and sea anchors |

Tue 22 Mar 16 14:26:24

Version 0.8 Amendments to this extract file:

3.24 Compass reworded for clarity

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

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