

**VIC·MAUI**  
**— 2012 —**  
CHALLENGE - ADVENTURE - TEAMWORK!

# Safety Preparation

Vic Maui 2012 Preparation Seminar

Jan 15, 2012

# Safety Framework

- Notice of Race
- ISAF Offshore Special Regulations – Mo 1
- NOR - Appendix A
- NOR - Appendix B



## **NOTICE OF RACE: APPENDIX A**

**DATE OF PUBLICATION: June 2, 2011**

Amendments to the ISAF Offshore Special Regulations for 2010 - 2011, Governing Offshore Racing for Monohulls & Multihulls

# Instructions to Skippers



## NOTICE OF RACE: APPENDIX B CHECKLIST

DATE OF PUBLICATION: June 2, 2011

Yacht Name

*All vessels must conform to the ISAF Offshore Special Regulations for 2010 - 2011, Governing Offshore Racing for Monohulls & Multihulls ("OSR 2010-2011") for a Category 1 mono hull offshore event and its amendments, and those amendments listed in the Notice of Race (NOR).*

*Attention is drawn to OSR 1.02, Responsibility of the Person in Charge, and OSR 2.05, General Requirements. This document is not a complete list of the OSR and NOR requirements, it is framed as a convenience for the skippers.*

## Key Dates

No Later than April 28/12  
-Schedule consultation on  
Checklist

No Later than June 2/12  
-Submit completed Checklist

### Instructions to Skippers:

- 1) Start early with your preparations.
- 2) Review all race documents.
- 3) Determine how your yacht will comply with all race requirements.
- 4) Contact Greg Westerlund at [gregwesterlund@shaw.ca](mailto:gregwesterlund@shaw.ca) to schedule a meeting with a Vic Maui consultant.
- 5) Prior to a meeting with a Vic Maui consultant, ensure your yacht is in a suitable condition to determine if it complies with all race requirements.
- 6) Meet with a Vic Maui consultant to review how your yacht complies with race requirements  
**Note:** consultants **will not complete** Appendix B for you during this meeting.
- 7) Complete Appendix B by filling out compliance column (Yes or No or Not Applicable), and complete any required input in the comments column for each specified regulation number.
- 8) Submit Appendix B and supporting documentation to the Race Committee completed and signed no later than June 2, 2012. (6.01.4, "Quickstop MOB" procedure certificate may be provided after June 2, 2012, but must be provided 24 hours prior to respective start.)

### Skipper's statement:

I declare that my yacht, its equipment and crew conform to the requirements of the Vic-Maui 2012 yacht race.

Skipper's signature:

Date:

### Boat Information:

Type	Series date
Number of crew this race	LOA
LWL	Max beam

# 1.02 Responsibility of Person in Charge

- **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.
- 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.
- **The responsibility for a boat's decision to participate in a race or to continue racing is hers alone.** (RRS Fundamental Rule 4)

# Safety – Be Prepared

- Bad Stuff Happens! – Outcome depends on how well you are Prepared
- Safety Consultation is more than “Tick the Box”

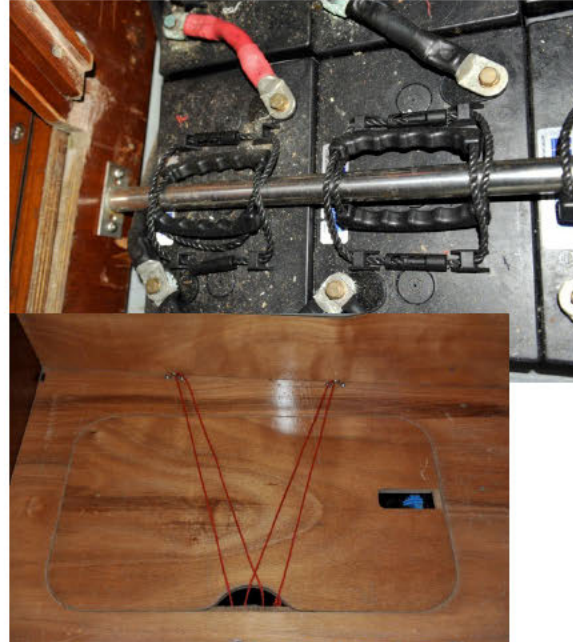
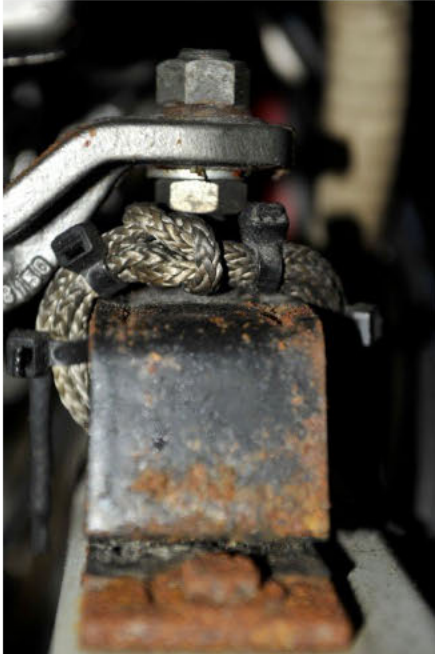


# Safety Consultation

- Not an Inspection
  - Responsibility for Compliance Remains with Skipper
- Focus on Important Items Based on Risk
  - Keep Crew on the Boat
  - Keep Water Out when Beam-On
  - Stop loose gear flying in a Roll-Over
  - Is gear ready to Abandon Ship
    - Is The Crew?
  - Ready deal with Major Damage
  - Being Seen

## 2.03 b) Heavy, Moveable Items Secured

- Engine, Floorboards, batteries, stoves, fuel bottles, fuel and water tanks, anchors and chain, toolboxes, locker covers



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# 3.04.08 Stability

- Proof of Compliance

– ORC or IMS certificate, ISO 12217-2, or a professional Naval Architect

IMS RATING CERTIFICATE No. 30839 IMS AMENDED TO JANUARY 2003 IMS AMENDED TO JANUARY 2003 VPP: 03/DEC/03 10:24:43

Based on: FULL MEASUREMENT (Metric) Offshore Racing Council Cert No 30839 US30839.DAT 03/DEC/03 10:22:52  
 +-GPH-+ Ipswich, England OFF Meas'd: 26/NOV/92 F030BM.OFF 25/JUN/99 13:54:00  
 NOT VALID AFTER 12/2000 | \$25.0 | Copyright 2003

YACHT DESCRIPTION -----RATING OFFICE:-----  
 Name: CALIENTE Issued: U.S. SAILING  
 Sail No: USA-51515 | 03/DEC/03 P.O. BOX 1260  
 Class: ATLNTC50 | Measured: 15 MARITIME DRIVE  
 LOA: 15.253m Beam(MB) 4.171m | 05/MAY/00 PORTSMOUTH, RI 02871  
 Designer: RIBADEAU DUMAS G. |  
 Builder: ATLANTIC/PINTA | Revalidation Authority: US SAILING  
 Rig: MASTHEAD SLOOP 147% Jib | Measurer: WILLIAMS  
 Keel/CB: FIXED KEEL |  
 PropInst: STRUT DRIVE FOLDING | "I CERTIFY THAT I UNDERSTAND MY  
 FwdAccom: YES SPIN: SYMMETRIC | RESPONSIBILITIES UNDER THE IMS."  
 HullCnst: HVCORE RudCnst: STNRDR |  
 Forestay: ADJST AFT BoomMtl: HEAVY | OWNER:-----  
 Spreads: 3 Sets InrFsty: FIXED |  
 Runners: 1 Set Jumpers: NONE |  
 Dates: AGE:6/1990 |  
 COMMENTS -----+

-----CENTERBOARD AND DRAFT-----  
 ECM 0.000 CBRC 0.000 CBMC 0.000 CBTC 0.000  
 WCBA 0.0 CBDA 0.000 KCDA 0.000 ECE 0.000  
 WCBB 0.0 CBDB 0.000 ENDPLATE ADJ (KEDA) 0.000  
 -----PROPELLER AND INSTALLATION-----  
 PRD 0.416 ST1 0.046 ST4 0.099 ST5 0.325 EDL 4.255

PIPA 0.0047  
 -----FLOTATION DATA-----  
 FFPS 1.210 AFPS 1.021 SFFP 1.245 SAFFP 14.093  
 FFM 1.261 FAM 1.029 FFPV 0.000 AFPV 0.000  
 FF 1.262 FA 1.029 SG 1.023

-----INCLINING TESTS-----  
 W1 82.500 PD1 508.100 PLM 9000.000 PL 4500.000  
 W2 82.500 PD2 508.100 GSA 1.000 RSA 1.0  
 W3 82.500 PD3 508.100 SMB 9.720 WD 15.120  
 W4 82.500 PD4 508.100 RM 193.3 RMC 193.3  
 RM2 194.3 RM20 190.8 RM40 170.2 RM60 114.0  
 RM90 49.7 WBV 0.0 CREW ARM (CRA) 1.710

**CALCULATED LIMIT OF POSITIVE STABILITY: 118.9 DEGREES**  
 RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 2.594  
 -----HYDROSTATICS-----MEASUREMENT TRIM-SAILING TRIM-  
 KEEL DRAFT (DHKO) 2.704 (DHKA) 2.742  
 2ND MOMENT LENGTH (LSMO) 14.197 (LSM1) 14.815  
 DISPLACEMENT (WEIGHT) (DSPM) 8253 (DSPS) 9514  
 WETTED SURFACE (WSM) 37.85 (WSS) 39.90  
 VCG FROM OFFSETS DATUM (FOR CLUB RM) (VCGD) -0.076  
 VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) -0.04  
 -----INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 2.994

-----LIMITS AND REGULATIONS-----  
 Limit of Positive Stability: MEETS REQ Measurement Inventory: 03/MAY/00  
 Minimum Displacem't 6910kg: MEETS REQ Accommodation Length: 13.556m  
 Maximum Crew Weight: 1029 kg. Accom Certificate: C/B SA= 0.04%  
 Stability Index: 121.2 Plan Approval: NONE FILED  
 C/R HeavyItems Pntch Adjust: 0.00000 Anchor(s) Weight: 0 Dist: 0.00  
 Applied Age Allowance: 0.65%  
 NOTE TO OWNER: The range available to revise crew weight is 558-1030 kg.  
 ----- TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE -----

LEISERE BOARDS WRITTEN STATEMENT OF COMPLIANCE  
 SPORT-UND REZEITZHOOTE SCHAFFLICHE KONFORMITÄTSERKLÄRUNG  
 CHANTIERIEN BENETEAU S.A.

N° 404857 BATEAUX DE PLAISANCE  
 DECLARATION ECRITE DE CONFORMITE

BATEAU DA DIPORTO  
 DIPORTAZIONE CRISTE E FONDAMENTA

Non de constructeur / Manufacturer name: Z.I. des Mares / Zone del Capitan / Zona del capitano  
 Non de mandatar / Responsible / Mandatory / responsible name: Paul RAMPINI, Dircteur Général

Raison Sociale (in cas échéant) / Company (if different): Z.I. DES MARES B.P. 66  
 Adresse / Address: 40, Avenue de Lazaret 17000 LA ROCHELLE  
 Code Postal / Zip: 85270 Ville / Town: ST HILAIRE DE RIEZ  
 Pays / Country: FRANCE  
 N° de Siret / Siren ou équivalent / Siret / Siren No. Or equivalent ident. code: 432 632 51

Je soussigné, qualifié en tant que / I, undersigned, (function and name): Paul RAMPINI, Dircteur Général  
 certifie sous ma propre responsabilité que le bateau répertorié au descriptif suivant est en tout point conforme à la réglementation / certify, under my  
 responsabilité, that the boat described below is completely in compliance with the regulations in force.  
 Si l'intervention d'un organisme notifié / If a certifying organization is intervening:

Nom / Name: I.C.N.N.  
 Adresse / Address: 40, Avenue de Lazaret 17000 LA ROCHELLE  
 N° de l'Etat / State: B BEY 91014V  
 Date / Date: 29 07 99

Caractéristiques du bateau / Technical Data of the boat: N° de l'Etat / State: B BEY 91014V  
 Type de coque / Hull type: 03  
 Nom de la série / Series name: FIRST 47.7  
 Marque / Trade mark: BENETEAU  
 Longueur de la coque / Hull length: 14 00 m  
 Longueur de la vilation (propélie) / Sails surface: 96 00 m<sup>2</sup>  
 Puissance maximale recommandée / Maximum recommended power: 75,00 kW  
 Puissance installée / Installed power: 55,20 kW

Catégorie de conception / Conception category: A - en tous points adaptés  
 Nombre de personnes recommandées / For a maximum number of persons: 12

CHANTIERIEN BENETEAU SA  
 Z.I. DES MARES - B.P. 66  
 85270 ST HILAIRE DE RIEZ  
 02.51.60.81.00  
 02.51.00.51.10



# 3.08.3 Hatches

- Above water at 90o
- Immediately and firmly shut at 180o
- Inward opening hatches/ports –



## 3.08.4 Companionway

- Operated and secured from inside and outside
- Not extend below local sheerline



## 3.22 Handholds below

- Adequate, strong hand-holds to allow movement below



## 3.12 Mast Step

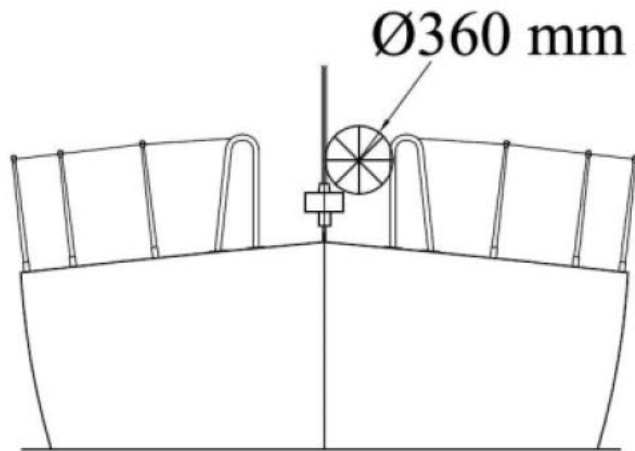
- Bottom of mast fastened to mast step



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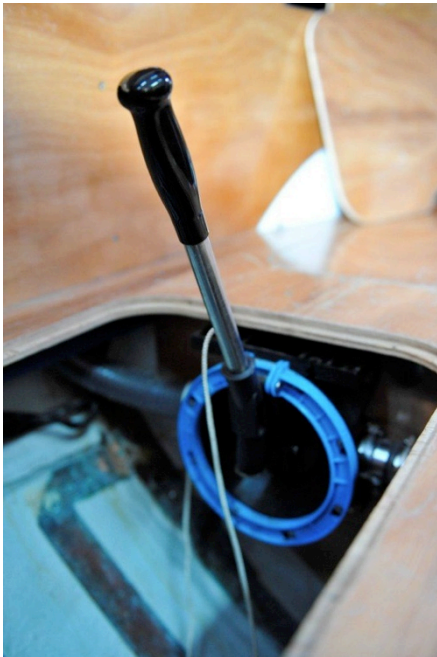
# 3.14 Lifelines

- Uncoated stainless wire - Taught
- Spacing of stantions - Openings in pulpit
- Min height specs



## 3.23 Bilge Pumps

- 1 Pump operated below, 1 from in cockpit
- Handles on lanyards or permanently attached
- Discharge independent of cockpit drains



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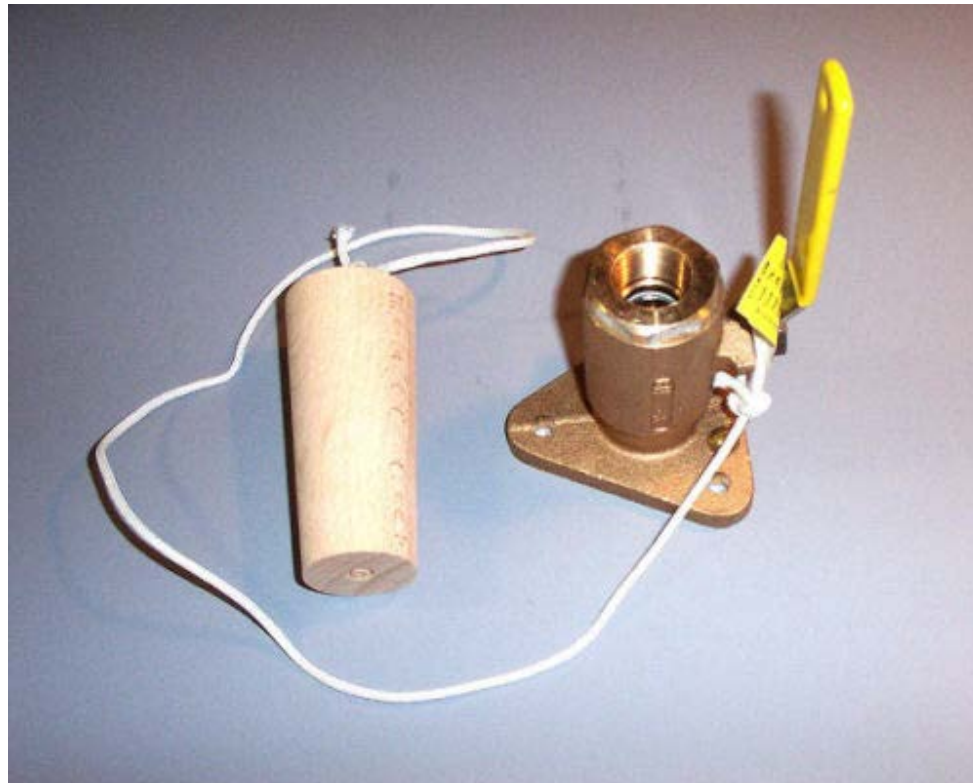
## 3.29 SSB

- 100 W P-P
- Permanently installed antenna and ground
- Requirement vs. Sat Phone only was reviewed



## 4.03 Thru Hull Plugs

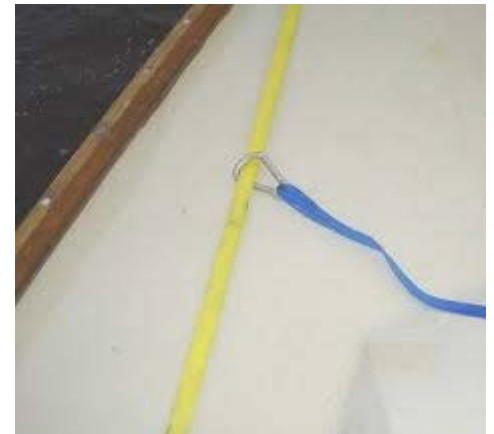
- 1 tapered, wood plug for each through hull attached or immediately beside



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# 4.04 Jackstays and Clipping Points

- Port and Starboard, strongly attached
- 3/16 1x19 uncoated wire, or 4500 lb webbing
- Clipping points: helm, winches, other stations



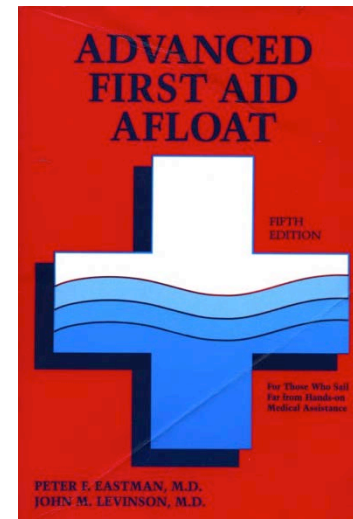
# 4.05-4.16 Boat Safety Gear

- Laid out for checking
  - Spare nav lights, Handheld VHF & emerg antenna, Anchors, Fire Extinguishers, Flashlights, Charts and Light List, Tools & Spares, Rigging Cutter, Bosun's Chair, Foghorn, Heaving Line, Cockpit Knife



# 4.08 First Aid Kit

- Guidelines of the manual, likely conditions, duration of the passage, and number of people
- Carry 1 of 4 specified manuals



# 4.10 Radar Reflector

- Tetrahedral with Diagonal  $> 18''$ ; or
  - Cross section  $> 10 \text{ m}^2$
- Installed 4 m (13 ft) above WL





# 4.15 Emergency Steering

- Demonstrated to work



# 4.17, 4.18 Marking

- Boats name on floating equipment such as lifebuoys, lifejackets, liferafts, grab bags
- Marine grade reflective tape



# 4.19 EPIRB

- Registered, tested,
- Battery expiry after Aug 2012



# 4.20 Liferaft

- Certification and Recently Serviced to:
  - SOLAS; OSR (ORC); ORC (ISAF); or ISO 9650
  - Insulated floor recommended
- Storage:
  - Canister on deck or cockpit
  - Watertight or self draining locker easily opened under pressure;
  - Below Companionway if under 40 Kg (vessels older than 2001 only)
- Permanently tethered
- Deployment within 15 sec.

# 4.20 Liferaft



# 4.21 Grab Bag

- Recommended Contents
- Need not duplicate items in Liferaft pack



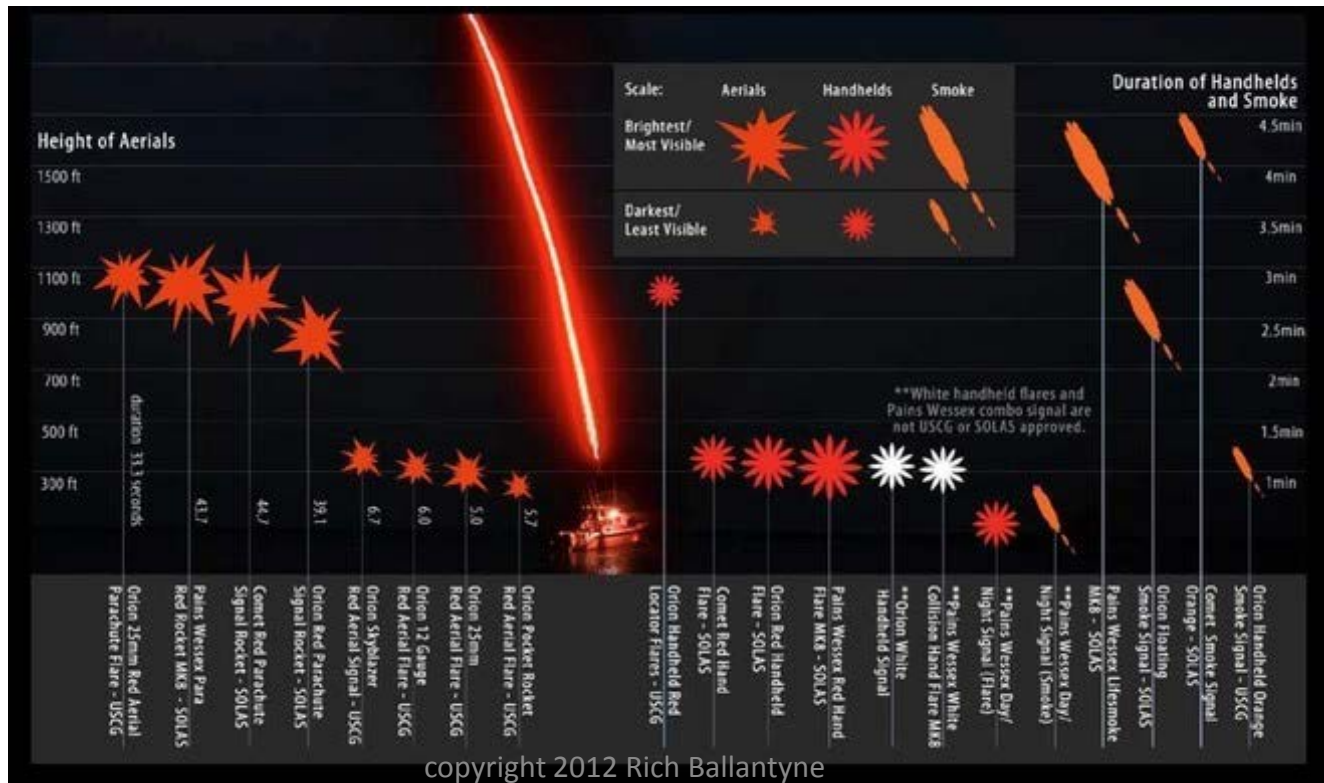
## 4.22 Deployable Gear

- Lifebuoy with whistle, drogue, self igniting strobe - Within reach of helmsman
- 2<sup>nd</sup> Lifebuoy or Lifesling



# 4.23 Pyrotechnics

- **SOLAS** LSA Chapter III
  - 6 red parachute, 4 red handheld, 2 orange smoke



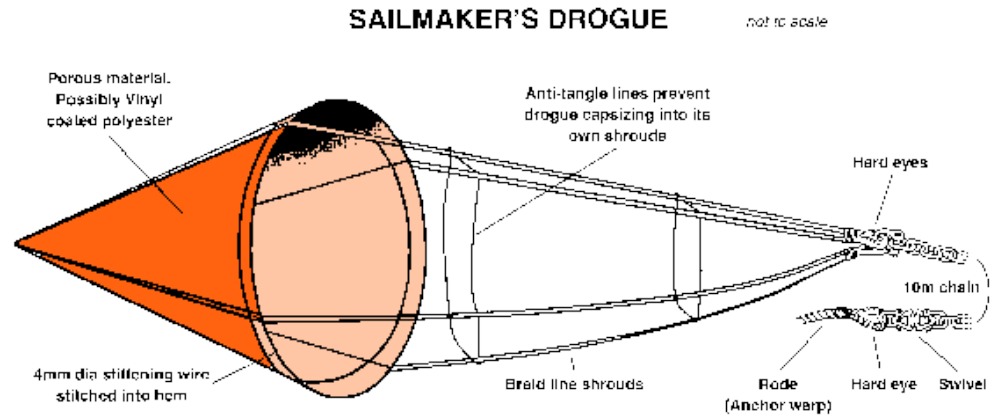
# 4.26 Storm Sails

- Proper Storm Trysail and Storm Jib
- Sheeting Positions



# 4.27.1 Drogue

- Drogue or Sea Anchor is strongly recommended



### Typical Dimensions

LWL	Mouth dia (Min)	Slope Length (Min)	Shroud Lines (Min)
10m (33 ft)	1m (3 ft 3ins)	1.3m (4ft 3ins)	1.3m (4ft 3ins)
13m (42 ft)	1.3m (4ft 3ins)	1.7m (5ft 7ins)	1.7m (5ft 7ins)

# Sec. 5 Personal Gear

- PFD to ISO 12402, Harness to ISO 12401
  - Whistle, reflect tape, crotch strap, spare inflation cylinder, SOLAS light, safety line (tether) per specs
  - Sprayhood, PLB are recommended



Tested in presence of  
Skipper

# Sec. 6 Training

- Min of 30% of crew to have ISAF Safety at Sea training
- Min of 2 to have Senior First Aid certification
- Certified practice of Quick Stop MOB drill

