



World Leader In Rating Technology

Summary of the changes to the ORC Rules and Regulations as approved
at the **ORC Annual General Meeting** held in Athens, Greece on 09 November 2010

VPP – Velocity Prediction Program

- **Hydrodynamics**
 - The treatment of truncated sterns has been fine tuned
 - The root chord Residuary Resistance for long keel chords is modified
 - Double keels are now better rated

- **Aerodynamics**
 - Spinnaker coefficients have been revised below $AWA=60^\circ$
 - Better accuracy at crossover conditions between jibs and spinnakers
 - Better accuracy to evaluate the inefficiency of large spinnakers in light winds.
 - Better evaluation of the blanketing effects from spinnakers with average girths
 - Improved accuracy of Code 0's through a double run of the VPP
 - Non-Spinnaker configurations are improved
 - Furling jibs and mains have a more accurate treatment
 - Moveable bowsprits are treated better
 - Unmeasured ORC Club mainsails now have default girths
 - Windage on lenticular rigging is assumed to be 25% of circular rod

- **Righting moment:** Crew on the leeward side in downwind conditions is now considered
- **VMC** (Velocity Made good along Course) is now introduced
- **Carbon construction gyradius** adjustment is now equivalent for C/R and Performance division
- **New ILC (Inshore ToT)** is based on W/L courses and corresponding TCF, PLT, PLD and triple number variants

IMS – International Measurement System

- **Rule E5.1** is amended to clarify the WBV measurement as water ballast volume that can be loaded on one side and used only when a water ballast inclining test and freeboard measurements are not performed.
- **New rule F7.3** defines that the presence of an articulated bowsprit that can be moved sideways from the centerline shall be recorded.
- **New rule F9.8(c)** defines that the presence of a mainsail furler shall be recorded when the mast is not weighted. The presence of a mainsail furler was recorded until 2010 as part of Heavy Items and all boats measured with a mainsail furler in Heavy Items will be automatically updated.



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- **New rule F9.9** is deleted and **Rule G4.6** regarding jib furlers is now moved to the rig section instead of the sail measurement section, while credit for use of a jib furler is now defined in the ORC Rating Rules.
- **New rule F9.10** defines that the presence of non-circular or lenticular rigging shall be recorded.
- **Rule 201 in the Appendix 1** is modified to clarify that separate enclosed compartment for toilet/wash basin, shall be accessible through a rigid door.

ORC Rating Systems

- Use of CEXT factor defining the possibility of extending crew position beyond the IMS sheerline is clarified in new **Rule 102.3**.
- New **Rule 108.6** defines that when TPS is recorded and the bowsprit can be move sideways from centerline, this is considered by the VPP as having a spinnaker pole with $SPL = TPS$.
- Mainsail width default values are used when these widths are not measured and are changed in **Rule 109.1**.
- **Rule 111.3(a)** is modified by allowing credit for a genoa furler used in association with one genoa only ($LPG > 110\% J$)
- **Rules 109, 111, 113 and 114** simplify the definitions of sails measured and rated areas, abandoning default areas that were present up to the 2010 rules for each sail type (mainsail, jib, symmetric and asymmetric spinnakers) as follows:
 - measured area is defined using appropriate sail measurements
 - rated area is the largest of the measured areas in the sails inventory, but shall not be taken less than the minimum area
 - If any sail measurements are not measured, it shall be taken in accordance with appropriate default formulas
- **Rule 113.3** defines that a boat without a spinnaker shall be rated with an asymmetric spinnaker tacked on a pole with following parameters: $SPL = J$ and $Area = 1.035 * Area$ of the the largest jib/genoa
- **Rule 114.4** defines that a Code 0 shall be rated by the VPP with appropriate aerodynamic force coefficients as both a Code 0 and as an asymmetric spinnaker, where the VPP will calculate and select the best performance for each.
- **New Rule 206.1(b)** clarifies that only one genoa shall be aboard while racing where there is a credit for a genoa furler. Such a genoa may be replaced by another one that will be used again as the only genoa aboard, and any genoa that is used shall be of area not less than 95% of the largest genoa recorded on the certificate.
- **Rule 304.1(c)** is not changing the meaning and intention of the rule, but it is clarifying compliance with the certificate, particularly for crew weight.



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ORC International and Club Certificates

- Main furler as notification “YES” or “NO” is added.
- Articulated bowsprit as notification “YES” or “NO” is added.
- Non-circular rigging as notification “YES” or “NO” is added.
- Boat drawing is updated with new mainsail width defaults
- Carbon mast is shown on the boat drawing with darker color
- Mainsail furler is shown on the boat drawing on the same was as the genoa furler
- Articulated bowsprit notification is added to the boat drawing

Green Book

- One day is added in the Schedule at Clause 8 of the *Standard Notice of Race*.
- ORC 670 class is removed from the *ORC Classes* and all rules with reference to it.