



Summary of the changes to the ORC Rules and Regulations as approved at the **ORC Annual General Meeting** held on 14 November 2021 via Zoom

VPP – Velocity Prediction Program

- **Hydrodynamics**
 - Calculation of displacement in sailing trim with declared instead of default crew weight
 - Introduction of the PIPA increase for hydro-generator units
 - Update of the keel viscous resistance calculation
 - Force model for boats with hydrofoils based on CFD studies
- **Aerodynamics**
 - Removal of minimum jib rated area allowing Cat rigs to be fairly rated
 - New sail force coefficients for headsails in use with the whisker pole deployed to leeward
 - Adjustment of the sail coefficients across the configurations of symmetric only, asymmetric set on the pole and asymmetric tacked on centerline to better balance observed performance
 - Improvement of the calculation of wind speed variations with height above the water surface (Wind Gradient)
- **All-Purpose Handicap (APH)** is introduced as replacement for the GPH. APH is considered to give a better representation of all-round performance when comparing boats.

IMS – International Measurement System

- **Rule B4.4** is modified following a more clear and better organized presentation of the measurement inventory that is now divided in three main sections: Ballast, Tanks and Other Items. Ballast includes fixed ballast as well as movable water ballast which is moved from the **Rule E3** to the **Rule B4.4(a)(ii)**.
- **Rules D3.3 and D4.17(c)** are changed to clarify the definition of the “Shaft not exposed” propeller installation.
- The presence of a permanently deployed hydro-generator is defined in the **new Rule D1.5**.
- **Rule F7.2** is modified to clarify that multiple ISP’s and TPS’s are used for headsails set flying only.
- A new measurement WPL for the whisker pole set set to leeward to set a headsail is introduced in the new **Rule F7.4**.
- Obsolete measurements of the headsails with SHW/SFL > 55% measured before 01/01/2014 are removed from the **Rule G4.1**.
- New **Rule G7** defines the measurement of quadrilateral sails and sails set on a wishbone boom.

- **Rule G8** is modified to clarify that a sail measurement stamp shall be placed at the head of the sail, except for the sails where the head may not easily be inspected (like furling sails) in which case the stamp shall be placed at the clew.
- Measurement illustrations are updated throughout rule book.

ORC Rating Systems

- **Rule 101.2(f)** is modified to allow aluminium honeycomb cores in the hull shell and deck shell structures on the boats with hydrofoils and LOA > 18.0 m.
- **Rule 107.6** is deleted as obsolete.
- Second part of the **Rule 111.1** is deleted as obsolete.
- **Rule 111.4** is updated with the additional use of appropriate aerodynamic lift coefficients when the headsail is used with a whisker pole set to leeward.
- Measured and rated areas of quadrilateral sails and sails set on a wishbone boom are defined in the new **Rule 116**.
- **Rule 204(a)** is modified by adding hydrofoils on the list of items for which non-manual power may be used.
- CDL limits in the **Rule 206.1** are updated following VPP updates for 2022.
- The second sentence of **Rule 301.1(a)** clarifying identification of the flotation reference points in the 3D hull file provided by a designer is deleted.
- **Rule 301.4(a)** is changed clarifying that a boat may have a Non-Spinnaker certificate while also in Double Handed configuration.
- New **Rule 303.7** defines that once ORC Certificates are issued, they are valid and available on the ORC website in digital format and the requirement for the owner's signature on the printed certificate is removed from the **Rule 304.1**. Instead, an owner will receive a digital certificate with a message to confirm his acceptance of the responsibility under RRS and ORC rules.
- In **Rule 304.1(c)(ii)** quadrilateral sails and sails set on a wishbone boom are added to the list of sails whose area shall be smaller or equal to the respective one printed on the certificate.
- A new step in checking compliance with the certificate is added in **Rule 305.2(c)**. If the difference in APH is more than 0.25% but less than 0.40%, a boat shall receive a scoring penalty that shall be 50% of a Did not Finish score, rounded to the nearest whole number (0.5 rounded upward) in any race in which her rating was incorrect. A new certificate shall be issued based on the new measurement data and all races of the series shall be rescored using the new certificate data. The measurement protest will be considered accepted and the protestee will have to cover any cost involved. If the difference is 0.40% or more, a boat shall be disqualified (DSQ) in any race in which her rating was incorrect.
- All-Purpose Handicap (APH) is defined in **Rule 401.4** and any reference to the GPH in other rules is replaced by APH.
- Throughout **Rule 402** "Performance Curve Scoring" is replaced with "Polar Curve Scoring" and "Implied Wind" is replaced with "Scoring Wind."
- ORC International and ORC Club certificates are updated following the changes explained above.

Green Book

- OSR Category 3 with a life raft is added as Standard for the ORC Championships (except Sportboats).
- New CDL limits for Class definitions in ORC Championships based on the 2022 VPP are as follows:
 - Class A: $16.400 \geq \text{CDL} > 11.610$
 - Class B: $11.610 \geq \text{CDL} > 9.780$
 - Class C: $9.780 \geq \text{CDL} > 8.550$
- The Standard Notice of Race and Standard Sailing Instructions are updated to more closely follow the World Sailing template and experience from events held in 2021. The Standard Notice of Race now includes special sections for Double-Handed and Sportboat events.
- Heat racing systems to be used in case the fleet needs to be split into heats is added as an appendix to the Sailing Instructions.