



"Our Mudhead mission is to promote camaraderie and fun among members by encouraging competitive sailing, managing quality races, fostering member participation in racing at all levels, and hosting memorable social events."

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Dear Mudhead Members,

The Mudhead board has received positive feedback regarding the incorporation of the ORC scoring system, in addition to the traditional PHRF scoring system, for Mudhead races. After considerable discussion, sub-meetings, presentations from experts and analysis, the board has decided to offer ORC as an additional scoring option.

How this will work:

- When registering for Mudhead races, both PHRF and ORC classes will be available for selection and the registrant will indicate the scoring system the boat desires.
- Once the event entry has closed, the Race Committee will distribute the fleet into PHRF and ORC.
- A valid 2022 ORC certificate is required to participate in the ORC class(es).
- Trophies will be awarded within the PHRF classes and ORC class(es). The Salle Evelyn DWNRS first in fleet trophy will remain with the PHRF fleet. Depending upon interest, the addition of an ORC first in fleet trophy or relocation of the Salle Evelyn trophy to the ORC fleet will be considered.
- Additional specifics to be included in the Sailing Instructions.

How to decide:

Below is a description of the ORC rating system the Race Committee has generated to assist owners in deciding whether the PHRF or ORC rating system is most appropriate for them and their boat. The Race Committee has included on-line information as well. Greg Gilmartin and John Fries are both well versed in the ORC rating system and have volunteered to be a resource to assist owners with this decision. I am also available to anyone who would like to discuss the rating systems, although somewhat less versed. Further, John Fries has offered to assist with ORC certificate applications and with any sail measurements required for the ORC certification.

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WHAT IS ORC?

You may have heard about ORC, and some of you have raced under that system, if you've raced with Storm Trysail, the New York Yacht Club, the Stamford Yacht Club, the Cruising Club of America or Charleston Race Week. The system is used world-wide and has caught on around the US from Annapolis to Chicago, Mackinac to San Francisco. It is supported by US Sailing and administered by the Ocean Racing Congress.

HOW DOES IT WORK?

- The ORC Rule relies on a Velocity Prediction Program (VPP) based on standard measurements of hull, rigging, displacement, sails, and prop.
- The measurements are input with an online application process.
- The rating calculator outputs a multi-number rating, suitable for various scoring options, wind speeds, and course configurations.
- The formulas, rules, certificates and VPP documentation are all freely available to the racing community. This is not the case with other systems such as IRC and ORR.
- You have a choice of the type of certificate you receive, each one providing either more detail or specific use.

TYPES OF ORC CERTIFICATES

- ORC Club – this is the certificate that will be utilized for Mudhead races. This certificate relies on information from a database of 125,000 records of boats from last 20 years. To submit a certificate application, you provide information you likely have from a PHRF certificate. You can get as detailed as you wish (i.e. weighing your boat.)
- ORCi requires more detail, maybe a hull measurement, but that's for more championship type racing.
- ORC One Design – standard configuration. Changes require new certificate.

ORC FEATURES

- [ORC scoring options](#) include Time-on-Distance, [Time-on-Time](#), Triple Number, Performance Curve Scoring, Double handed.
- ORC certificate is usable anywhere ORC handicap is used. A regional variation i.e., YRALIS, NB, ELISA is not required.
- ORC Club initial cost is \$3/ft for boats <29.99ft and \$4/ft for boats 30-39.99ft. Processed by US Sailing.
- VPP diagram – Target boat speed in specific conditions & sails.

- Sailor Services – can try “what if” scenarios. Bigger chute? What effect will it have on my rating can be tested online.

SCORING

- Multiple rating numbers blend with Yacht Scoring. Your Certificate # upon Registration loads your numbers.
- ToT or ToD calculates $TCF \times \text{Elapsed Time} = \text{Corrected Time}$
- RC selects parameters of race - Course & Wind
 - o Course - Windward/Leeward or Coastal/Distance.
 - o Wind range from Low, Moderate and Heavy.
- Performance Curve Scoring where percentage of upwind/downwind/reaching can be incorporated into formulae to determine Corrected Time.

We encourage you to review further details at the links below:

- US Sailing ORC: www.ussailing.org/competition/offshore/orc/
- YouTube Video with More Details: www.youtube.com/watch?v=Xc8ZobDH5Ck

Fair Winds-

Peter Austin, MRMSA Commodore, 2022