

Title: ORC International Double Handed World Championship

A submission from the **Offshore Racing Congress**

Purpose or Objective

To extend already recognized ORC International World Championship to the Double Handed discipline.

Proposal

Amend Regulation 13.1(j):

the ORCi International Rating System World Championship **for fully crewed and double handed crews**

Current Position

As above.

Reason

1. The Offshore Racing Congress (ORC) has for 50 years now been using scientific methods and principles to develop systems that accurately and consistently characterize the performance of offshore racing yachts. Annual World Championships held since 1999 have tested the integrity of the system, which also evolves and improves every year as new technologies are presented in design. The system is widely accepted: ORC is the largest measurement-based WS Recognized Rating system in the world, with over 10,000 certificates issued yearly in more than 40 countries. Nearly any monohull design can be rated, ranging from 6.0 meter Sportboats to 50 meter Superyachts.
2. With increase interest for the Double Handed racing, ORC has introduced ORC Double Handed (DH) certificate in 2020 with use of proven Velocity Prediction Program (VPP) technology in predicting the performance of the boat in true wind speeds ranging from 6 to 20 knots at all wind angles. ORC DH certificate particularly rate boat for Double Handed crew where crew weight may vary from 120 – 300 kg addressing the effect of reduced crew weight and different boat handling.
3. In addition to Rating certificates itself, ORC is providing various tools for sailors and race managers such as:
 - Performance targets and polar diagrams: Teams sailing can gauge their performance in a diverse range of conditions relative to the targets provided by an ORC Speed Guide. Important decisions made by the team on course strategy, routing and sail selection can be influenced by these targets.
 - Race management: By having performance information for the boats, race managers then have a tool to develop course options and anticipate the timing of the fleet racing on the course without necessarily having to revert to trackers.
 - Training: With a set of targets, teams may train individually with reference to this data and not require a second boat or fleet of boats to have as training partners. Theoretical

polar performance data from the VPP may also be improved and adjusted over time with updates from observed data.

- Flexibility in scoring options: ORC Ratings may be designed to describe the weather conditions of the race. An ORC certificate provides a range of ratings, expressed as Time Allowances in s/NM for different wind conditions in the range of 6 – 20 knots of true wind speed for an optimum beat, and for 52, 60, 75, 90, 110, 120, 135, 150 degrees of true wind angle for an optimum run. Using these time allowances a handicap may be calculated for different race conditions and course configurations course as a unique feature that is fundamentally different and much more precise than any other handicap system.
- Measurement protocols: ORC's International Measurement System (IMS) is a thorough yet practical and reproducible method of evaluating build and set-up integrity to design. The system has been in use for decades and has been thoroughly tested through numerous international races and regattas all over the world. Most measurement parameters are consistent with ERS standards.

4. In 2021, up to now, a total of 2887 ORC Double Handed Certificates are issued in 25 countries as follows:

Country	30/07/2021	
	Club	Intl
ARG	1	
AUS		12
AUT	9	
CAN	12	2
CYP	16	
DEN	1	
ESP	147	189
EST	27	
FIN	137	10
GBR		1
GER	118	11
GRE	294	56
ITA	20	18
JPN	26	2
KOR	1	
NED	743	6
NOR	785	
POL	12	16
POR	8	6
ROU	1	
RSA	134	
RUS	1	
SLO	4	1
SWE	1	
USA	40	18
Total	2538	349
		2887

Additionally, every boat that has an ORC fully crewed certificate can get an ORC DH certificate for free and currently there are 7687 ORC Certificates issued up to now in 2021 with predicted number close to 10.000 by the end of the year.

5. ORC was one of the founding members of the Offshore Doubles helping in its mission to strengthen the community of sailors, events and boat classes who are already making Double-handed offshore sailing the fastest growing segment of our sport.