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Minutes of the Measurement Committee meeting held on November 6th, 2017 in Puerto Vallarta

Present:

Nicola Sironi (Chief Measurer), ITA Per Boeymo NOR Nathan Titcomb USA Zoran Grubisa CRO Joakim Majander FIN

Observers:

Ab Pasman NED Mikael Quist DEN Thomas Nilsson NOR Agnes Lill EST Edoardo Recchi ITA Jason Smithwick GBR Dobbs Davis USA Eva Holmsten SWE Ecky Von der Mosel GER Lance Burger RSA Peter Tjalma NED Alessandro Nazareth ITA Luc Géllusseau FRA Fabrizio Pirina ITA Jim Capron USA Hans Drakemberg SWE

1. 2017 Season report on ORC Championships

The World Championship was held in Trieste, and a Technical Committee of 11 measurers was present, and was busy performing pre-race checks and post race measurements for the first-placed boats, made possible due to the calm weather.

A similar program was followed at the Europeans in Gdansk, and the operations were more difficult due to persistent rain.

Both Technical Committees were chaired by Zoran Grubisa, and the web-based systems introduced last year were successfully used for reservations of measurement check slots, and to complete sail inventories.

In the post-race checks performed on several leaders none were found outside the tolerance, but 3 at the Worlds and one at the Europeans had their certificates recalculated and found to be in the 0.1-0.25% tolerance range.

2. HULL MEASUREMENT: 3D SCAN VS MANUAL TS

The use of 3d scanners has expanded, with improvements in tools to improve the quality of OFF files extracted from clouds, and the ORC Staff is developing methods to simplify the process so that the requirement of having clouds processed by the ORC remains.

The use of the Total Station remains unchanged, and a boat has been measured in Poland using the Leica 3d Disto equipment.

3. BOOM INCLINING NEW SOFTWARE

Joakim Majander has produced new software for his JM inclinometer dedicated for the boom inclining, which is very useful to avoid errors and misinterpretations. It was agreed to make it available from a dedicated section of the ORC website.

4. SAIL STAMPS/INVENTORIES

The Committee supports the idea of joining the World Sailing IHC system, with the perspective of setting up a database system and make easier to check sail inventories.

5. SUBMISSIONS

GER 1 Hull measurement costs

The Submission was noted and discussed. The best recommendation is to try to persuade the builders to have the boat measured, instead of charging an individual owner of a cost whose benefits will go to other owners.

GER 4 Freeboard measurement on wide boats

The proposed solution is to establish on new wide boats the freeboard points in the centreline, so avoiding any rolling effect, as it is done on an increasing number of new boats.

NED 3 Validity of flotation measurement

The Submission is not supported. In recent Championship no boat had a flotation date of more than 5 years.

RUS 1 Station spacing

The Committee supports the Submission, see also ITC Minutes.

RUS 2 Symmetry of appendages

The Submission is not supported, see also ITC Minutes.

RUS 3 Top points

The Submission has no measurement implication, see ITC Minutes.

SUI 1 Determination of weight of sportboats

The weighing of boats is already included in the Sportboat Rule. It is however a double check, because the weight only is not sufficient to determine the correct trim, therefore length etc.

6. OUTBOARD ENGINE STOWAGE

The Committee discussed this item at length, concluding that the outboard engine can be stowed while racing, properly secured, on the cabin floor, even in the absence of a dedicated compartment. Its weight and position are to be recorded in the Measurement Inventory, but cannot be placed forward of the mast.

7. TRIM CHANGE CHECKS

The Committee recommends the implementation of a comparison between boats using the same freeboard points in the OFF file, or of the same boat as a consequence of modifications, calculating the net difference of weight, VCG and LCG, to validate measurements.

The meeting adjourned at 13:27.