

iQFOIL CLASS RACE MANAGEMENT GUIDELINE

This document is to help RM team to run the races. For the major events it should be used together with Class Racing Policies which could be find here: <https://www.iqfoilclassofficial.org/documents>

1. WIND SPEED PER DISCIPLINE

1.1. The wind speed per discipline is as follows:

Discipline	Wind speed (kts)
Sprint racing	5-15
Course racing	9 and more
Marathon	10-25

2. FLEET SIZE

2.1. The fleet sizes and number of the groups depending of the entry are as follows:

Entries	Fleet/Groups
< 60	1
60-80	1 or 2
80-120	2
120-180	2 or 3
>180	3

2.2. Sprint racing - each fleet/group to be divided to heats with the maximum of 24 boards per heat.

2.3. Marathon – in case of split fleet:

2.3.1. If scheduled in Qualifying series - will be sailed as one single fleet (all groups together).

2.3.2. If scheduled in Final series - will be sailed in the groups.

2.3.3. Women shall start separately and after men.

3. TARGET TIMES

3.1. The target times are as follows:

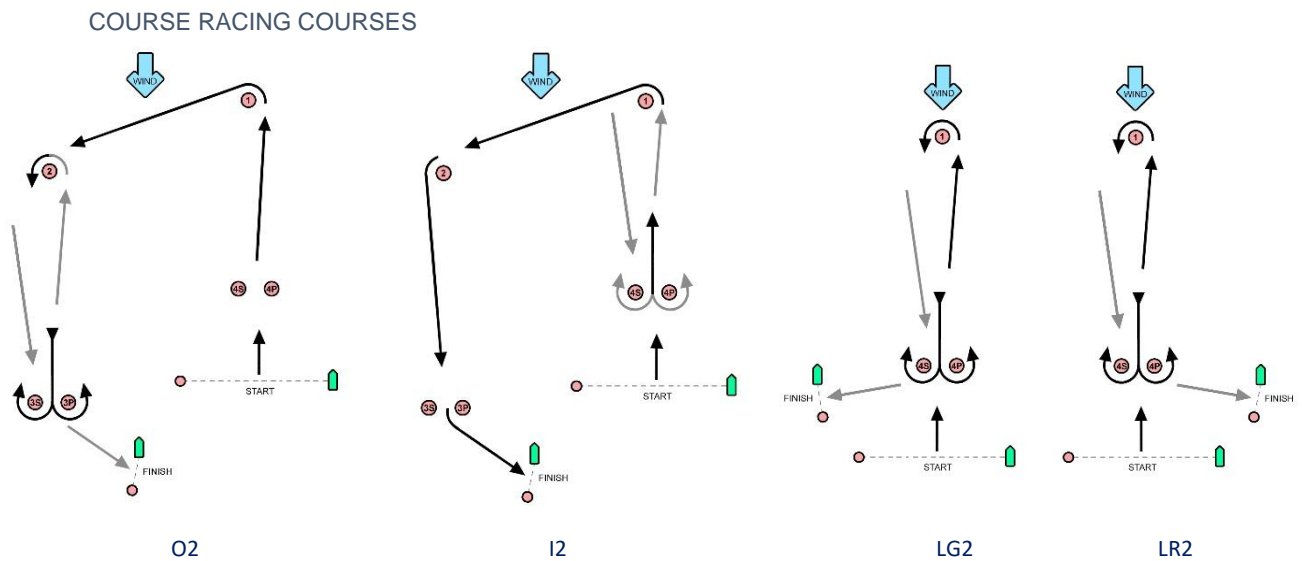
Opening series	Target Time	Time Limit	Finish Window
Course Racing	16	23	6
Sprint Racing	Sprint Slalom	4-5	4
	U Sprint	6	5
	Upwind Sprint	7	5
Marathon	60	90	30

Medal Series	Target Time	Time Limit	Finish Window
MR1	6	10	5
MR2	4-5	8	4

4. COURSES

4.1. Course Racing

4.1.1. Examples of the courses to be used. The courses may have variations depending on the venue specific. Trapezoid is recommended when more than one fleet is racing.



	Trapezoid	Windward/Leeward
Mark 1 distance (nm):	0.80 (10-13 kts) 0.90 (13-17kts) 0.95 (17+)	0.85 (10-13 kts) 0.95 (13-17kts) 1.00 (17+)
Reach angle/length	80-90°/0.60-0.70 nm (90° in <15kts)	100-90°/400-500 m
Start	number of boards x board length (2.20 m) x 3	
Gate (m)	70 - 80	
Finish (m)	30 - 40	

Note: With above distances women are 1.5-2 minutes slower than men. Alternatively extension top marks of different color for the men can be used when both men and women race in the same time (in that case the windward mark for women should be 0.1 nm lower than windward mark for men). Above distances are for the top athletes - if event is for the newcomers or youth fleets distances should be decreased accordingly.

4.2. Marathon

4.2.1. The course configuration depending on shoreline and landmarks - historic or touristic places and should contain a reasonable mixture of upwind and downwind legs and reaches.

4.2.2. The finish line if possible should be close to the shore – any spectator place or regatta venue

4.2.2.1. on onshore winds at least two reaches are recommended prior to the finish line.

4.2.2.2. on offshore winds cross wind finish is recommended after rounding an upwind mark.

4.2.3. Length of the windward leg:

5.50 nm under 13 knots, 6.50 nm for 13-17 knots and 7.50 nm for 17+ knots.

4.2.3.1. If racing in a small area, the windward leg distances should be considered cumulatively with the maximum of 2 laps.

4.2.4. The total distance of the race: 13-15 nm

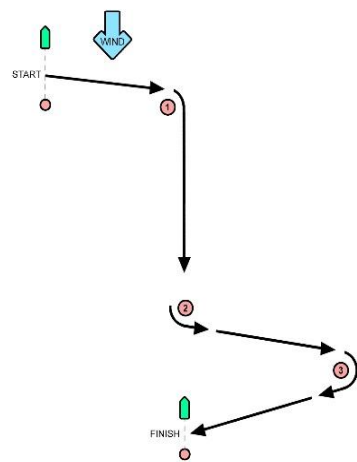
4.2.5. Start: number of boards x board length (2.20 m) x 2.5 for the rabbit start.

Note: With this distance women are around 10 minutes slower than men

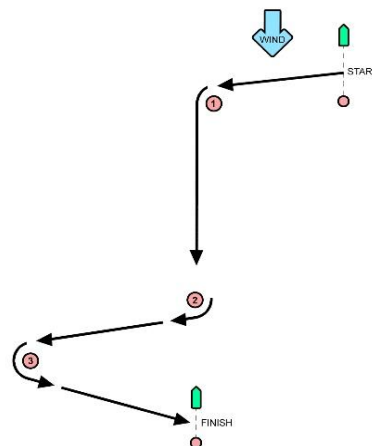
More information can be found in Marathon Guidelines published on a class website.

4.3. Sprint racing

4.3.1. Sprint Slalom

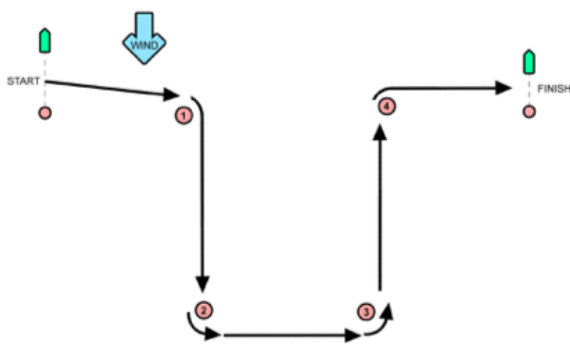


PD3

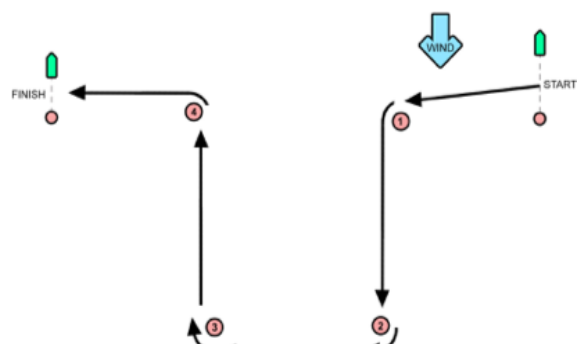


SD3

4.3.2. U Sprint

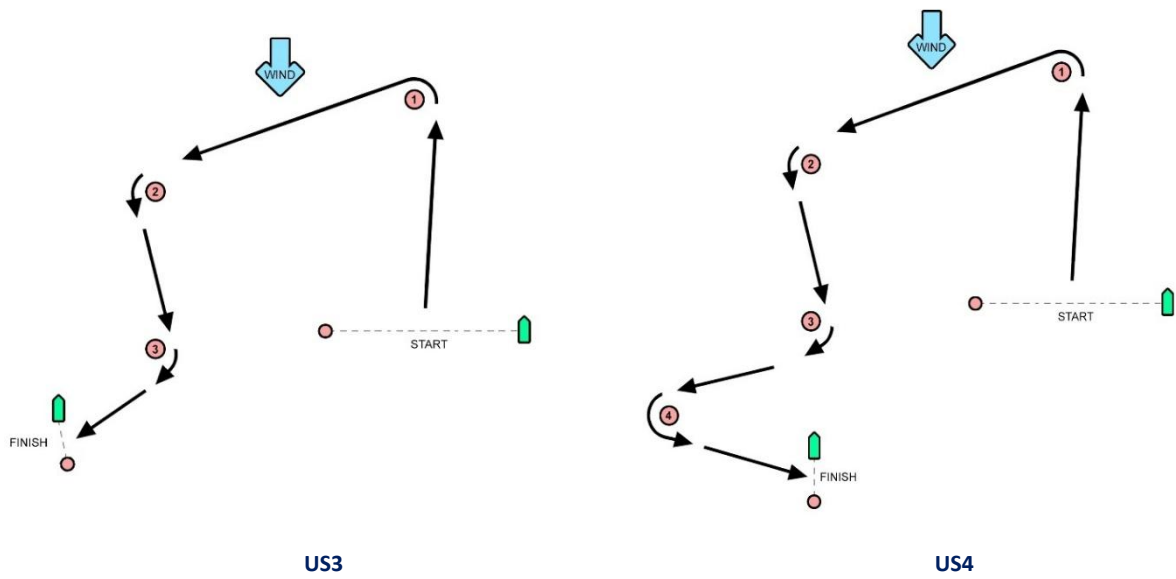


PU4



SU4

4.3.3. Upwind Sprint

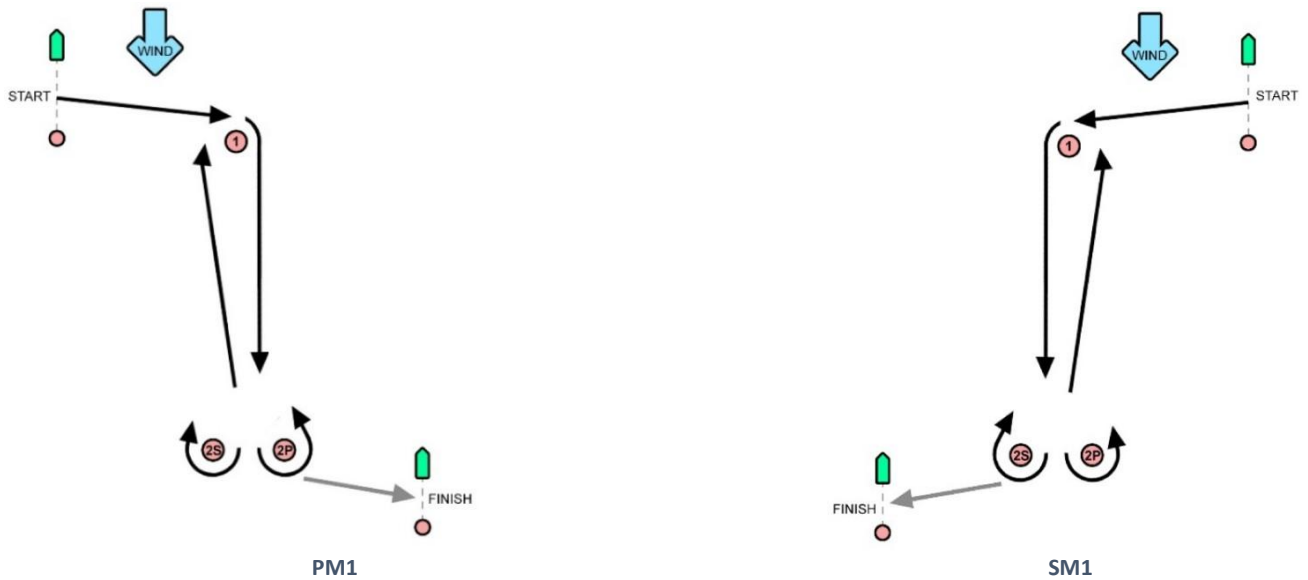


4.4. Medal Series

4.4.1. Sprint Slalom: MR2 - PD3 or SD3 under 9 kts.

4.4.2. MR1 - PM1 or SM1 above 9 kts

MR1 COURSES



	Sprint Slalom Medal Series MR2	Medal Series MR1	U Sprint	Upwind Sprint
M1 distance (m):	550-600			650-750
First leg angle from the wind (measured from the pin)	90°			
Angle between slalom legs/length (m)	20°/300-400			20°/300-400
M1-M2 distance (m)	650-800	650-750	650-700	700-750
M2-M3 distance (m)			600	700
Reach to finish angle/length (m)		100-90°/400-500	90°/500	100-90°/400-500
Start	No bias or slight pin bias max 5°(more wind less bias) /minimum length 50 m - approximately 7 m per each board up to a maximum of 170 m			approximately 10-12 m per each board up to a maximum 250 m (less boards higher factor)
Finish (m)			30-40	

Note: With MR1 and MR2 distances women are around 1 minute slower than men

5. STARTING PROCEDURE

5.1. Starting procedure:

Minutes before Starting signal	Visual signal	Sound signal	Meaning
3	Class flag displayed	One	Warning signal
2	U or Black flag displayed	One	Preparatory signal
1	U or Black flag removed	One long	One-minute signal
0	Class flag removed	One	Starting signal

5.2. An Orange flag will be displayed at least 2 minutes before a warning signal.

5.3. Course racing and Upwind Sprint

5.3.1. U or Black flag as preparatory signal to be used.

5.3.2. For safety reason when wind over 25 kts RC may force boards to start only on one tack (port or starboard).

Example for SIs: The race committee may signal that boards shall start on specific tack, by displaying a green flag for starboard tack or a red flag for port tack, before or with the warning signal.

5.4. Marathon

5.4.1. Over 80 entries in a fleet a 'rabbit' start is recommended (See CRP 4.7)

5.4.2. For the rabbit start the pin is set 135°/140° from the wind direction (wind direction minus 135°/140°)

5.4.3. The rabbit vessel is proceeding from the pin end to the race committee vessel in a straight line with a speed between 17-19 kts (depending on the wind strength) with an angle of 45° to the wind (wind direction plus 45°).

5.5. Reaching starts (Sprint Slalom, U Sprint, Medal Series)

5.5.1. Black flag as preparatory signal to be used.

5.5.2. The rule to add to SIs:

For Sprint Slalom, U Sprint and Medal Series Races, add new RRS rule 29.3 as follows:

When, at the starting signal, the Race Committee identifies a board on the course side of the starting line, the Race Committee shall signal a general recall.

5.5.3. Heat number (if applicable) will be displayed before or with the warning signal without sound signal.

6. RACES

- 6.1. A recommended maximum number of sprint races sailed in the same heats is 2 (see CRP 3.4).
- 6.2. When racing back to back the warning signal to subsequent races should be made as soon as practicable after the previous race finishes. The minimum interval between line closure and the next warning is 3 minutes.
- 6.3. After series of back to back races the rest period ashore should be 15 minutes after the last board came back ashore.

7. ABANDONING POLICY

- 7.1. Abandoning is at discretion of the Class Representative
- 7.2. Race may be abandoned when:
 - 7.2.1. Wind speed is below:
 - 7.2.1.1. 5 knots in sprint slalom
 - 7.2.1.2. 7 knots in course racing/marathon/MR1/U Sprint/Upwind Sprint and boards still have to go upwind
 - 7.2.2. Any other reason exists which making the race unfair (for example wind shift make impossible to fetch the mark, wind shift causes the fleet to invert etc.) or unsafe.
- 7.3. Race shall be abandoned when the whole fleet is not foiling for more than 20 seconds.
- 7.4. Furthermore in the case of low wind readings:
 - 7.4.1. In Sprint racing or Medal Series race shall be abandoned when:
 - 7.4.1.1. in Sprint Slalom, U Sprint or Medal Series the first 5 boards or third of the heat, whichever is smaller, did not pass mark 1 within 90 seconds after the starting signal
 - 7.4.1.2. in Upwind Sprint the first 5 boards or third of the heat, whichever is smaller, did not pass mark 1 within 5 minutes after the starting signal
 - 7.4.1.3. the first 5 boards or third of the heat, whichever is smaller, did not finish within the time limit for the race.
 - 7.4.2. In Course Racing or Marathon race shall be abandoned when:
 - 7.4.2.1. in Course Racing the first 8 boards or tenth of the group/fleet, whichever is smaller, did not pass mark 1 within 8 minutes after the starting signal
 - 7.4.2.2. the first 15 boards or tenth of the group/fleet, whichever is smaller, did not finish within the time limit for the race.

8. SCORING

- 8.1. A race will be scored as follows (see CRP 6):
 - 8.1.1. A Course race will be scored as one race in a Series
 - 8.1.2. A Sprint race will be scored as one race in a Series
 - 8.1.3. A Marathon race will be scored as two races in a Series
- 8.2. A competitor's series score will be the total of her race scores excluding her worst score(s) as follows:
 - 8.2.1. When racing in a single fleet:

Opening Series Races	Discards	Comments
1-2	0	No score excluded
3-7	1	One worst score excluded
8-15	2	Two worst scores excluded
16 or more	3	Three worst scores excluded

However no more than one BFD score in Sprint Racing may be excluded. This changes RRS A2.

8.2.2. When racing in a split fleet:

Qualifying Series Races	Discards	Comments
1-2	0	No score excluded
3-7	1	One worst score in Qualifying Series excluded
8-10	2	Two worst scores in Qualifying Series excluded
Final Series Races	Discards	Comments
1-2	0	No score excluded
3-7	1	One worst score in Final Series excluded
8 or more	2	Two worst scores in Final Series excluded

However, no more than one BFD score in Sprint Racing may be excluded from each the Qualifying and the Final Series. This changes RRS A2.

8. EQUIPMENT

8.1. Minimum number of the boats required to run the races:

8.1.1. Race Committee vessel/starting boat

8.1.2. Pin end boat

8.1.3. Finishing vessel

8.1.4. Windward course racing boat (marks 1 and 2 in case of trap) or sprint racing marks 1 and 3 boat (follows the gybes on that side of the course)

8.1.5. Leeward/Outer gate course racing boat (marks 3S/3P in case of trap) or sprint racing marks 2 and 4 boat (follows the gybes on that side of the course)

8.1.6. Leeward/Inner gate course racing boat (marks 4S/4P) – only if trapezoid course is in use

8.1.7. Jury boats for the last day for MR - 3 ribs with sufficient engine.

8.2. Flags

8.2.1. Class flags

8.2.2. ICS flags

8.2.3. All signal flags should be set on sticks to display them precisely

8.2.4. Discipline flags



8.3. Buoys

8.3.1. Course marks number depending on course configuration

8.3.2. Laid marks for the finish pin/start pin for reaching starts.

8.4. Electronic equipment: VHF radios, GPS, wind speed indicators etc.

8.5. Other equipment: compasses, white boards, sound horns etc.

8.6. Filming equipment for the starts (both RC and pin end) and finish.