

MAST Racing 2021 Summer Series

May 28 – September 10, 2021

Milwaukee Bay, Milwaukee, Wisconsin

NOTICE OF RACE

1. RULES

- 1.1. Except as otherwise noted in the Sailing Instructions, the race series will be governed by the rules as defined in *The Racing Rules of Sailing for 2021 - 2024*.
- 1.2. 'Safety First' is THE most important rule for MAST racers. The MAST Racing Series is structured to allow a safe and supportive environment for sailors and families who want to try their hand at racing. Our emphasis is on learning and having fun. We encourage sailors of all abilities and experience to join.

2. SAILING INSTRUCTIONS

- 2.1. The sailing instructions will be available at <https://mastracing.org/forms-docs> by May 21, 2021
- 2.2. The sailing instructions will consist of the instructions in RRS Appendix S, Standard Sailing Instructions, and supplementary sailing instructions that will be on <https://mastracing.org/forms-docs>.

3. COMMUNICATION

- 3.1. All official notices will be posted on <https://mastracing.org/forms-docs>
- 3.2. All boats shall carry a VHF radio capable of communicating on channel 79.

4. ELIGIBILITY AND ENTRY

- 4.1. The MAST Summer Racing Series is open to all seaworthy sailboats appropriate for the waters within 4 nautical miles of the Breakwater Light marking the “center gap” entrance to Milwaukee Harbor on Lake Michigan in Milwaukee, Wisconsin.
- 4.2. Eligible boats may enter by completing the form available at and paying the appropriate fees at <https://mastracing.org/join-us> by May 21, 2021. Renewing members will receive an invoice via email on approximately March 1st and are eligible to race once dues are paid and the required membership survey is completed. A renewing member can also log into their account at www.mastracing.org and find a copy of the invoice there.
- 4.3. To be considered an entry in the event, a boat shall complete all registration requirements and pay all fees.
- 4.4. Registrations must be received by May 21, 2021 to participate in the first race.
- 4.5. Late entries will be accepted if space is available in the appropriate division.

4.6. Late entries must be registered by the Monday preceding the race to participate in that week's race.

4.7. MAST reserves the right to limit the number of entries for safety.

4.8. Guest Boats: Skippers **new to MAST** may race their boat in one race as a guest as follows:

4.8.1. The skipper notifies the Race Committee via email at mastracechair@gmail.com no later than the Monday before the race they intend to sail.

4.8.2. The Race Chair will provide sailing instructions and indicate the proper start time.

4.8.3. The guest boat will be timed, and adjusted times will be posted. The guest boat will not be scored in any division or in the fleet.

4.8.4. If the guest boat subsequently registers, the boat will be placed in a division and scored for the guest race. Previously registered racers will retain their scores for the race. (Scores will not be adjusted as a result of adding the guest boat).

5. FEES

5.1. Required fees are as follows:

Membership Type	Fee
<i>Racing Member</i>	\$85.00

(Required: includes Skipper and Vessel registration)

<i>Crew/Social Member</i>	\$35.00
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(All regularly participating crew, additional owners, and social members are strongly encouraged to join/pay the Crew/Social Member Fee)

6. SCHEDULE

6.1. Races will be held on Friday nights as follows:

- May 28
- June 4, June 11, June 18, June 25
- July 2, July 9, July 16, July 23, July 30
- August 6, August 13, August 20, August 27
- September 3, and September 10
- Make up race date reserved is September 17
- The Almost Fall Regatta (a fun race not scored in the series) will be held on Saturday September 18

6.2. The warning signal for the first division shall be at 6:10 pm

7. SCORING

7.1. The scoring system is as follows; this changes RSS 90.3.

7.2. The **minimum number of races** a boat must sail to qualify for the prizes in the Division or MAST Cup shall be **10 of the possible 16 races**. If races are canceled or abandoned, the number of races needed to qualify will be 1/2 the number of races held, rounded down, plus 2 (e.g., 15 races => 9, 14 races => 9, 12 races => 8, etc.)

7.3. In the event of a tie at the end of the season, both boats will be awarded the earned position. There are no tie breakers.

7.4. **Division Scoring:** Division standings will be calculated using each boat's **best 10 scores of the possible 16 races** (or best scores of the adjusted minimum number of races).

7.5. **Fleet Scoring:** Fleet standings are calculated using each boat's **best 14 scores of the possible 16 races** (or best scores of the adjusted minimum number of races, which is determined by the number of races not cancelled or abandoned minus two).

7.6. Committee Boat Scoring:

7.6.1. Individual registered boats who have completed the required training may volunteer to serve as Committee Boat once during the season. A boat that does not race because of Committee Boat obligations will be given a score of 1.25 an "almost 1st place" for the race. This score will be awarded even if a race is canceled or abandoned, so long as a good faith effort is made to conduct the race.

7.7. Canceled Race Scoring:

7.7.1. A canceled race is one in which no boat starts and is scored:

7.7.1.1. All boats are scored 0 for the race

7.7.1.2. The following points are added to the final division and fleet scores.

- Committee Boat: 1.25
- All other boats: 2

7.8. Abandoned Race Scoring:

7.8.1. A race started but then abandoned is scored:

7.8.1.1. All boats are scored 0 for the race

7.8.1.2. The following points are added to the final division and fleet scores.

- Committee Boat: 1.25
- Boats checked-in to race: 2
- All other boats: 3

7.9. Guest Skipper Point Reduction:

7.9.1. Skippers who serve as crew for at least one race on another boat that is sailing in its first season in MAST, will receive a one-time only, 0.5pt. deduction from their series point total, provided their boat does not also race in the same race.

7.10. **Division Splits:** The fleet will be scored in four separate divisions.

- 7.10.1. The groupings for the divisions are dependent upon a boat's PHRF rating and are determined by the Race Chairperson. The objective is to balance the size and relative handicaps of the boats in each division.
- 7.10.2. The groupings for the divisions are determined after the Spring Skipper's Meeting and prior to the first race. Contact the Race Chairperson if you are unsure of your division or need a PHRF assignment.
- 7.10.3. Boats without a valid PHRF rating will be assigned a PHRF based on sister ships registered with the LMPHRF database, or similar source. If no similar handicapping data is available, a PHRF will be assigned on the basis of the best judgment of the Race Chairperson.

7.11. **Week-to-Week PHRF Adjustment:** MAST encourages members, especially new and less experienced racers, to come out to race every week. At the same time, the scoring system must present a sufficient challenge to those who are experienced racers. To that end, all boats start out with their assigned PHRF rating and then, after each race, the ratings are adjusted based on their performance. The PHRF rating of those that finish at or near the top of their division is adjusted down (forcing them to "give more time" to other boats). The rating for those that finish farther down in the division or fleet have their PHRF increased slightly (giving them a better chance in the next race).

7.12. **Spinnaker Adjustment Factor (SAF):** For purposes of clarification, MAST uses 'Spinnaker' handicaps (HCP). Available databases do not provide sufficient information to fairly handicap all yachts in our fleet, with 'non-spinnaker' handicaps. In specific races as noted in the Sailing Instructions, boats may fly a spinnaker. Boats choosing to fly a spinnaker will be penalized 13.848 sec. for each 10 minutes sailed.

8. RISK STATEMENT

8.1. RRS 3 states: 'The responsibility for a boat's decision to participate in a race or to continue to race is hers alone.' By participating in this event each competitor agrees and acknowledges that sailing is a potentially dangerous activity with inherent risks. These risks include strong winds and rough seas, sudden changes in weather, failure of equipment, boat handling errors, poor seamanship by other boats, loss of balance on an unstable platform, and fatigue resulting in increased risk of injury. **Inherent in the sport of sailing is the risk of permanent, catastrophic injury or death by drowning, trauma, hypothermia, or other causes.**

9. INSURANCE

9.1. Each participating boat shall be insured with valid third-party liability insurance with minimum coverage of \$300,000 per incident.

10. FURTHER INFORMATION

10.1. For further information please contact mastracehair@gmail.com.

MAST Racing

2021 Summer Series

May 28 – September 10, 2021

Milwaukee Bay, Milwaukee, Wisconsin

SAILING INSTRUCTIONS

1. RULES

- 1.1. Except as expressly modified, the race series will be governed by the rules as defined in *The Racing Rules of Sailing for 2021 - 2024*.
- 1.2. Skippers shall (and crew are encouraged to):
 - 1.2.1. Review the 2021-2024 Sailor's Guide to the Racing Rules
 - 1.2.2. Attend the MAST Skippers Meeting (in-person, virtual, or recorded)
 - 1.2.3. Attend the MAST Racing Rule Change Review Meeting

2. CHANGES TO SAILING INSTRUCTIONS

- 2.1. Any change to the sailing instructions will be posted by 0900 on the day it will take effect at <https://mastracing.org/forms-docs>. An email notification will be sent to all members of the fleet.
- 2.2. Changes to the sailing instructions may be made on the water via VHF radio on channel 79.

3. COMMUNICATION WITH COMPETITORS

- 3.1. All official notices will be posted on <https://mastracing.org/forms-docs>
- 3.2. On the water, the race committee intends to monitor and communicate with competitors on VHF radio channel 79.
 - The following communications may be made by the race committee on VHF radio channel 79: time checks, race area, schedule changes, starting order of divisions, location of race committee vessel, courses, change of courses, shortening, postponement, abandonment, starting signals, recalls, and next start sequence.
- 3.3. A boat shall not make or receive voice or data transmissions regarding racing conditions that is not available to all boats.

4. CODE OF CONDUCT

- 4.1. Competitors and support persons shall comply with reasonable requests from race officials

5. SCHEDULE OF RACES

5.1. Races will be held on Friday nights as noted in the table below.

Date	Event	Course
28-May	Summer Series: Race 1	W/L
04-Jun	Summer Series: Race 2	Triangle
11-Jun	Summer Series: Race 3	W/L
18-Jun	Summer Series: Race 4	Triangle
25-Jun	Summer Series: Race 5	Distance
02-Jul	Summer Series: Race 6	W/L
09-Jul	Summer Series: Race 7	Triangle
16-Jul	Summer Series: Race 8	W/L
23-Jul	Summer Series: Race 9	Distance
30-Jul	Summer Series: Race 10	W/L
06-Aug	Summer Series: Race 11	Triangle
13-Aug	Summer Series: Race 12	W/L
20-Aug	Summer Series: Race 13	Triangle
27-Aug	Summer Series: Race 14	W/L
03-Sep	Summer Series: Race 15	Triangle
10-Sep	Summer Series: Race 16	W/L
17-Sep	Make up race (if needed)	
18-Sep	Almost Fall Regatta	

5.2. A makeup race will be sailed if more than 2 races are cancelled.

5.3. The Almost Fall Regatta (AFR) is a fun race outside of the race series held on Saturday September 11

5.4. The scheduled time of the warning signal for the first start of each race is 6:10 pm CT.

5.5. To alert boats that the race will begin soon, the orange starting line flag will be displayed with one sound at least five minutes before the first warning signal is made.

6. Division FLAGS

6.1. The division flags will be:

<i>Division</i>	<i>Flag</i>
Division 1	White Flag
Division 2	Yellow Flag
Division 3	Blue Flag
Division 4	Green Flag

7. RACING AREA

7.1. The waters within 4 nautical miles of the Breakwater Light marking the “center gap” entrance to Milwaukee Harbor on Lake Michigan in Milwaukee, Wisconsin.

8. COURSES

8.1. Attachment A shows the courses.

8.2. All courses are sailed leaving all marks to port as they are rounded

9. MARKS

9.1. Approximate GPS Mark Locations and Descriptions:

- MAST: **N43 02.195 W87 50.764** (Orange Post with light)-
 - *MAST mark not set as of 3-JUN-2021*
- SSYC W: *N43 00.041 W87 51.152 (4' Orange Sphere with “W” and a light)*
- SSYC C: *N43 00.338 W87 49.839 (Orange Cylinder with “C” and white horizontal stripe)*
- Bell Buoy: *N42 59.349 W87 49.839 (Green Navigational)*
- Start/Finish mark: Orange inflatable

10. OBSTRUCTIONS

10.1. The following areas are designated as obstructions:

- The break wall bounding the outer harbor.
- Fishing nets deployed within 1 mile of the MAST Mark

11. THE START

11.1. Races will be started by using rule 26 with the warning signal made 5 minutes before the starting signal. The warning signal for each succeeding division shall be the start signal for the preceding division. See Attachment B for full descriptions of signals and times.

- 11.2. The starting line will be between an orange flag displayed on the committee boat anchored at the starboard end and the course side of the port-end starting mark.
- 11.3. Boats whose warning signal has not been made shall avoid the starting area until their preparatory signal. The start area is defined as a rectangle drawn 100 ft out on each extension and 150 feet to the non-course side of the start line. See Attachment C.
- 11.4. If any part of a boat's hull is on the course side of the starting line at her starting signal, she shall keep clear of other boats and sail across an extension (the start line extended beyond/outside the pin or Committee Boat) so that her hull is completely on the pre-start side before she starts (i.e. she must re-enter the starting area from outside of the pin or Committee Boat to in order to start). This modifies RRS rule 29.1. Boats that are over-early at the start and do not (re)start will be scored OCS. The committee boat will *attempt* to hail any offending boats by horn and radio. All boats must (should) monitor channel 79.
- 11.5. External propulsion is not allowed once the warning flag for a boat's division has been raised. This is a local rule modification.
- 11.6. In no case shall a boat start a race under Spinnaker sail. This includes having a sail, pole, or other hardware set in a manner that would restrict a boat's ability a tack or jibe prior to the race start. In the event a boat is in violation of these rules, that boat shall be scored DNS.

12. CHANGE OF THE NEXT LEG OF THE COURSE

- 12.1. If a race must be shortened, the committee boat will move and anchor at the new finish and announce the change via VHF radio.

13. THE FINISH

- 13.1. The finishing line will be between an orange flag displayed on the committee boat anchored at the starboard end and the course side of the port-end starting mark.

14. TIME LIMITS

- 14.1. If no boat has passed the first mark by 7:15 pm, the race shall be abandoned.
- 14.2. If no boat has finished the race by 8:30 pm, the race shall be abandoned.

15. HEARING REQUESTS

- 15.1. The following changes RSS 61.1(a) Informing the Protested:

IF YOU ARE FOULED

- A. Avoid Contact!
- B. Take a deep breath and remember we are all here to have fun.
- C. If you believe you've been fouled, hail the offending boat saying "PROTEST" and the BOAT NAME (declaring loudly enough for the

other boat to hear or using the VHF radio), and raise a red flag on the stern of the boat if you have one.

- D. Once onshore, if you intend to pursue the protest, you must notify the Race Committee Chairperson of your protest, including a description of the incident and the racing rules you believe were violated, within two hours after the last boat finishes the race.

IF YOU FOUL ANOTHER BOAT

- A. Avoid Contact!
- B. Take a deep breath and remember we are all here to have fun. If there is any possibility you impeded the progress of another boat or caused a dangerous condition, in the spirit of MAST, treat the incident as a foul.
- C. If you believe you fouled another boat, get clear of all other boats and do two complete circles in the same direction. Once the circles are complete, you can rejoin the race without further penalty.
- D. If you do not think there was a foul, continue sailing the race with the understanding that you are racing under protest.
- E. Once the race is complete, you will be contacted by the Race Chairperson if a protest has been filed by the other boat. The Race Chair will ask for an account of the event from the person in charge of your boat and other eyewitnesses.

15.2. The following changes RSS 63 Hearings.

All protests and requests for redress will be heard and decided by majority vote of the Race Committee, which shall consist of the Race Committee Chairperson and two other MAST members who are knowledgeable about the Racing Rules of Sailing and who were not aboard the boats involved in the protested incident.

If the Race Committee Chairperson was aboard one of the boats involved in the protested incident, the Commodore shall appoint a MAST member not involved in the protested incident to serve as a substitute Race Committee Chairperson, who shall choose the other members of the Race Committee and consider the protest.

The penalties shall be determined at the sole discretion of the Race Committee and can be, but are not limited to, loss of one place in the finish, disqualification from the race, and suspension for one or more races. The decision of the Race Committee is final. In the event a boat is protested and found to be in violation of the racing rules twice during a

season, the Race Committee may suspend a boat's racing privileges for up to the remainder of the season. If a boat files more than two protests that are found to be without merit, that boat may also be subject to penalty within the sole discretion of the Race Committee.

16. SCORING

- 16.1. The scoring system is described in the Notice of Race and in detail at <https://mastracing.org/forms-docs>

17. SAFETY REGULATIONS

- 17.1. A boat that retires from a race shall notify the race committee via VHF radio channel 79 at the first reasonable opportunity.
- 17.2. MAST Safety Recommendations:
- 17.2.1. Each captain is responsible for the safety of all persons aboard during MAST racing activities.
- 17.2.2. Boats are encouraged to have ready a boarding ladder, a cushion or ring buoy ready to throw, a whistle or horn, and an anchor with line.
- 17.3. MAST strongly encourages the use of USCG-approved Personal Flotation Devices (PFDs) by all persons aboard.
- 17.4. Crew overboard practice drills are strongly encouraged
- 17.5. In an emergency, boats are required to render assistance to another boat or crew member as needed. Any boat that stops to render assistance in an emergency to another boat or crew member during a MAST event will be granted redress under RRS 62.1 (c)

18. EQUIPMENT AND MEASUREMENT

- 18.1. Measurement is not required. Boats with a valid handicap, rating, or class measurement certificate shall provide the certificate for determination of racing handicap. Boats without a certificate shall be provided a handicap by the Race Chairperson based on boats of similarity and documentation provided.
- 18.2. Whenever a LMPHRF handicap is available for the MAST boat or a similar boat, it shall be used in lieu of other ratings providing there are no other determining factors for adjustment.
- 18.3. Whisker poles or spinnaker poles that attach to the mast are allowed. Other poles (boathooks etc.) that are continuously handheld are also allowed. The pole must be applied to the clew of the headsail or the sheet near the clew. It is recommended that Crew tending whisker poles should wear PFDs and not lean out over the lifelines. Whisker poles may be employed on either the same or opposite side as the main boom.
- 18.4. There are no restrictions on the length, use, or type of whisker pole other than those noted above.
- 18.5. Spinnakers, and cruising spinnakers flown from a pole, are allowed only for specific races as noted in the Schedule located in the Sailing Instructions.

- 18.6. Reachers and other light air headsails that attach to the forestay and can be rated as genoas are allowed. Asymmetric spinnakers that exceed 160% of “J” are considered in the same category as symmetric spinnakers.
- 18.7. When spinnakers are allowed in specific races, a boat wishing to use a spinnaker must advise the committee boat prior to their start. Not confirming the intention to use a spinnaker with the race committee may cause a boat to incur an additional 5-minute penalty

PRIZES

- 18.8. Division **award flags** will be given for:
- 18.8.1. Division 1: 1st, 2nd, 3rd, 4th, 5th Place
 - 18.8.2. Division 2: 1st, 2nd, 3rd, 4th, 5th Place
 - 18.8.3. Division 3: 1st, 2nd, 3rd, 4th, 5th Place
 - 18.8.4. Division 4: 1st, 2nd, 3rd, 4th, 5th Place
- 18.9. The perennial **MAST Cup** will be given to the boat of the year as described in section 7.5 of the Notice of Race.
- 18.10. The perennial **Almost Fall Regatta Cup** and 1st – 5th place flags are awarded based on the Notice of Race for that event.
- 18.11. Other awards may be presented at the discretion of the Race Committee and/or Board include:
- 18.11.1. **Rookie of the Year** may be awarded to a skipper new to MAST.
 - 18.11.2. **Spirit of MAST** award may be presented in any given year to the MAST boat, couple, or member that best represented the Spirit of MAST throughout that year.
 - 18.11.3. **Cruiser/Racer Award** may be presented to the racing vessel that documented the desire to race in MAST as well as other venues along with cruising throughout the Great Lakes.
 - 18.11.4. **Outstanding Committee Boat** award may be presented to a crew that exhibits skill and good grace in performing duties.
 - 18.11.5. Descriptions of these awards are available at <https://mastracing.org/forms-docs>

19. FURTHER INFORMATION

- 19.1. For further information please contact mastracechair@gmail.com.

Attachment A

COURSES

The course will be selected for each race from one of the *four* courses as described herein. Refer to SCHEDULE OF RACES for determination of course. The Committee Boat may modify the course if conditions require.

All courses are sailed leaving all buoys to port, as they are rounded.

Boats may set a spinnaker in the races noted in the schedule of races and must notify the race committee they will fly a spinnaker during check-in.

Approximate GPS Mark Locations: (GPS locations have not been verified at the time of this printing)

- MAST: N43 02.195 W87 50.764
- SSYC W: N43 01.051 W87 50.826
- SSYC C: N43 01.315 W87 49.903
- Bell Buoy: N42 59.349 W87 49.839

Courses will be as shown in the following illustrations:

Windward – Leeward Course

A Windward -- Leeward Course will run from the Committee Boat to the MAST Mark and back to the inflatable buoy used for start, or as indicated in the accompanying charts.



Committee Boat stays West of North / South Line through the MAST Mark for Windward/Leeward and Distance Races. This may result in a downwind start if the wind is from the West.

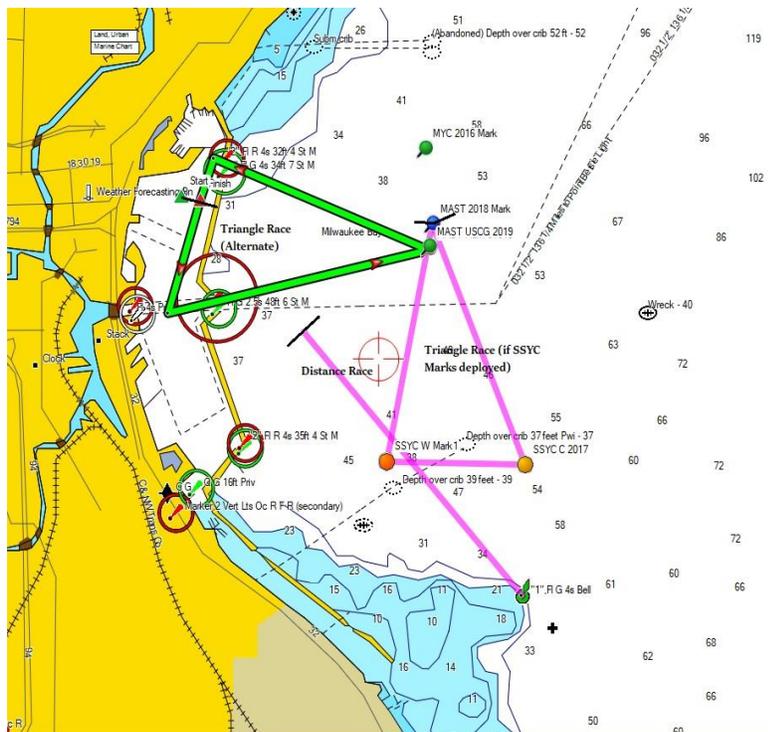
All windward /leeward races will be twice around unless they are shortened by an announcement from the Committee Boat via VHF radio channel 79.

Triangle Courses and Distance Course.

The **Triangle Course** starts at the MAST mark and is sailed in an anti-clockwise rotation around two SSYC marks.

The **Distance Course** starts outside the main gap, immediately south of the shipping channel then rounds the green navigational “Bell Buoy” and then returns.

Alternative Courses may be used in the absence of the SSYC Marks or in heavy seas/winds:



Inside Gap Start Triangle:

The start and finish lines will be set behind the break wall just to the SW of the North harbor Gap. From the start the racers will head South and through the Main Harbor Gap, then proceed to round the MAST mark to port and head in the North Gap to the finish. The committee boat holds the right to use other marks or directions should conditions warrant a course change.

Outside Gap Start Triangle:

The start and finish lines will be set at the MAST mark. From the start the racers will head West and through the North Gap, then proceed South to head out the Main Harbor Gap to finish at the MAST mark.

Attachment B

SIGNALS AND TIMES

Time	Flags	Horn	
6:10	RAISE White Flag	1 second	Division 1 warning
6:11	Raise P Flag (Blue with White Square)	1 second	Division 1 preparatory
6:14	Lower P Flag	3 seconds	
6:15	Lower White Flag Raise Yellow Flag	1 second	Division 1 start Division 2 Warning
6:16	Raise P Flag (Blue with White Square)	1 second	Division 2 preparatory
6:19	Lower P Flag	3 seconds	
6:20	Lower Yellow Flag Raise Blue Flag	1 second	Division 2 start Division 3 Warning
6:21	Raise P Flag (Blue with White Square)	1 second	Division 3 preparatory
6:24	Lower P Flag	3 seconds	
6:25	Lower Blue Flag Raise Green Flag	1 second	Division 3 start Division 4 Warning
6:26	Raise P Flag (Blue with White Square)	1 second	Division 4 preparatory
6:29	Lower P Flag	3 seconds	
6:30	Lower Green Flag	1 second	Division 4 Start

Attachment C

START AREA

