

Setauket Yacht Club, Inc.



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2005 RACE PROGRAM SAILING INSTRUCTIONS

Spring and Summer Series
(Tuesday Night Invitational)
Fall Series
Beer Can Series

CHANGES FROM 2004:

These Race Instructions are essentially unchanged from 2004. The most important revisions to note are:

1. Section 15 prohibiting a 2 turns penalty has been removed. The penalties of RRS #44 apply.
2. New courses are detailed.

SYC FLEET DIVISIONS

SYC fleet divisions for Spring and Summer Series (Tuesday Night Invitational), Fall Series, and Beer Can Series are:

- A Division (Green Flag) Boats may use spinnakers
- B Division (Red Flag) Boats may not use spinnakers

Participation in the SYC Race Program is open to all sailors. Skippers are urged to notify the Fleet Captain as early as possible to have their boat entered for SYC racing. An entry form designating participation in a specific division must be completed and sent, accompanied by the appropriate fee, to the SYC Fleet Captain. Courses will be set in Long Island Sound north of Port Jefferson Harbor. The races of the Fall Series are held on Saturdays and will be longer and more challenging than the Spring and Summer Series (Tuesday Night Invitational) races.

A boat may change divisions only after notifying the Fleet Captain in writing or by email providing that the boat can race in the minimum number of races to qualify for a series. Notice must be given twenty four hours in advance of racing in the new division. In the event that a division no longer has a sufficient number of boats, the remaining boats can move to the other division providing they can race in the minimum number of races required for qualifying in that division.

Entry forms are required for all SYC racing. One form is used for the Spring and Summer Series, Fall Series, and Beer Can Series. Separate entry forms and fees are required for the Harbor Cup (SYC Harbor Cup Committee is the organizing authority), the American Cancer Society Regatta (Mount Sinai Sailing Association is the organizing authority), and the Katrina/Winkle Cup (Lloyd Harbor Yacht Club and Centerport Yacht Club).

COMMITTEE BOAT ASSIGNMENT

All yachts racing must serve as committee boat during the race season. Preferred dates are to be indicated on the entry form honored on a first come first served basis. As race committee, it is your responsibility to read, understand, and perform the Instructions for Race Committee found in this booklet and attend a "Race Committee 101" refresher (date and time to be announced). Once you have a date assigned, you are obligated to fill that responsibility. You must run your race. If you are unable to do so, **YOU MUST FIND A SUBSTITUTE COMMITTEE**

BOAT, or trade assignments with another member. The Fleet Captain must be notified of changes as soon as they have been made. If you do not meet your committee boat responsibilities you will forfeit your ability to race for the remainder of the year and will not be eligible for any club trophies for this season.

In the event that a Committee boat is not present, a Volunteer Committee approved by the Fleet Captain can run the race. The Volunteer Committee must start and finish all divisions racing in accordance with the instructions in this booklet (unless conditions exist in which the race is abandoned by the Volunteer Committee). The Volunteer Committee will be awarded average points for the race in which she volunteered. Average points will be considered the average of all her previously sailed Low Point races for the current racing season.

2005 RACE SCHEDULE

SPRING SERIES (Tuesdays 7 PM)

1	May 17
2	May 24
3	May 31
4	June 7
5	June 14
6	June 21
7	June 28

SUMMER SERIES (Tuesdays 7 PM)

1	July 5
2	July 12
3	July 19
4	July 26
5	August 2
6	August 9
7	August 16

BEER CAN SERIES (Fridays 6:30 PM)

1	August 12
2	August 19
3	August 26
4	September 9
5	September 16
6	September 23

FALL SERIES

Mayor's Cup	July 22 (Friday evening distance race with jackrabbit start)
Gillies 1	August 13
Gillies 2	August 20
Kaltenborn 1	September 24
Kaltenborn 2	October 1

PORT JEFFERSON HARBOR CUP and SYC CHALLENGE CUP

June 11, 12

AMERICAN CANCER SOCIETY REGATTA

August 6

DISTANCE RACES TO/FROM HUNTINGTON

September 9 & 11 for competitors in the Katrina Cup and Winkle Cup

SEASON TROPHY QUALIFICATIONS

RACE	NO. OF RACES	POINTS FOR SEASON TROPHY
Spring Series	7	4
Summer Series	7	4
Harbor Cup	4	3
Mayor's Cup (Jack Rabbit)	1	1
American Cancer Society	1	1
Gillies Series	2	2
Kaltenborn Series	2	2
Total Number of Points		17

If there are less than 3 boats for any division being raced, then that race will not count toward the season trophy. A boat must race in a minimum of 4 races in each of the Spring and Summer Series to qualify for the season trophy.

Trophies will be awarded as follows:

NUMBER OF BOATS	TROPHIES AWARDED
3	1st Place
4	1st and 2nd Place
5	1st, 2nd and 3rd Places
6 or more	1st, 2nd and 3rd Places

SAILING INSTRUCTIONS

1. All SYC divisions will use the PHRF rating system. Scratch sheets listing names of boats, sail numbers, and ratings will be issued and updated throughout the season. Anyone who has not received or has a question concerning their SYC rating or race division should contact the club PHRF handicapper Mort Fortgang. SYC races are open to all single hulled auxiliary cruising type boats with fixed berths, galley facilities, and the ability to be self supporting for a weekend cruise or any boats with a valid PHRF Certificate. All yachts should meet the minimum equipment and safety standards of the Offshore Racing Council Category 4 as amended by the Setauket Yacht Club. This equipment is listed in # 18.

2. Races will be governed by the rules as defined in the current Racing Rules of Sailing, 2005-2008, including US Sailing Prescriptions rules, as amended in these sailing instructions. These rules are available at www.ussailing.org/rules. It is recommended that a copy of these rules be on board.

Basic Principle: Competitors in the sport of sailing are governed by a body of rules that they are expected to follow and enforce. A fundamental principle of sportsmanship is that when competitors break a rule they will promptly take a penalty or retire.

3. Checking in, communication from RC (race committee), finishing or withdrawing. All boats intending to race shall check in with the Race Committee by reporting the boat name and division to the committee boat prior to the warning signal for her class. It is noted that for the Spring and Summer Series a boat's race will not count if an entry form and appropriate fee have not been given to the Fleet Captain prior to the second race of the series. The committee boat shall monitor **VHF Channel 72** for any unusual circumstances that may develop concerning the race and the boats on the course. Racers are encouraged to monitor this channel during the race. This communication should be used only for an emergency and not to help racers run the course. Boats intending to withdraw from the race must notify the Race Committee that they are doing so. Failure to do so may result in a boat overdue report to the U. S. Coast Guard.

4. The Schedule of Races and first warning times are given on page 4 of this booklet. The race committee shall make a sound

signal (one blast of a horn) when she leaves the dock or her mooring to proceed to the starting line. If a race cannot begin at the designated time because of no wind or other valid reason, the Race Committee may postpone the start by two sound signals (horn blasts) and display the "Answering Pennant". If the starting sequence is not later begun, the race will be cancelled for the day and rescheduled at the discretion of the Fleet Captain.

5. Races shall be started in accordance with RRS #26. The preparatory flag for all divisions shall be the "P" flag. It is preferred that the warning flag for the succeeding class shall be made with the starting signal of the preceding class. If necessary, the Race Committee may allow a brief time to pass after the start of one class and before the warning signal of the next class. The starting sequence signals and sounds are given in a chart on the back of this booklet.

6. "Round-an-end" Rule in accordance with RRS 30.1 is in effect for all SYC races; the I flag will not be displayed by the committee boat. . Any racers on the race course side of starting line ONE minute and thereafter prior to the final sound signal (horn) for the race start, shall sail to the pre-start side of the line around either end *before* starting.

7A. Sail numbers: The rule requiring the numbering of sails will be waived.

7B. Starting Area: After the first warning signal all divisions must keep clear of the starting area until their preparatory signal has been displayed. The starting area is defined as the area 50 yards to windward, leeward and to either end of the starting line. Failure to observe this rule can result in a disqualification by the Race Committee or protest by participants in any starting division.

7C. Use of engine: Engines must not be used after the preparatory signal for each division.

8. Postponement: Code flag "Answering Pennant" (red and white); two sound signals. All races not yet started are postponed until further notice. Upon lowering the "AP" signal and one sound signal, either the Warning signal (colored flag) or the Cancellation Signal will be displayed within 30 seconds.

9. Cancellation: Code flag "N" (blue and white checked); two sound signals. All races, including those in progress called off.

10. Shortened Course: Code flag "S" (white and blue square); two sound signals. All divisions finish between the yellow flag on the committee boat and nearby mark. The Race Committee is to announce the change on VHF channel 72.

11. General Recall: Code flag "First Repeater" (blue and yellow triangle); two sound signals. The division starting is recalled for another start. The recall signal will remain hoisted for four minutes, timed from the first two sound signals. At 4 minutes, the recall signal will be lowered. One minute later, the warning signal for the division recalled will be displayed with one sound signal.

12. Course Change: No flag; two sound signals and new course letter.

13. Finishing: In the event that the committee boat is not on station, the first boat finishing a race will take a station on the finish line and record the times of the finishing boats. The first finishing boat shall remain on station a reasonable length of time. All finishing boats should record their own finish time from a GPS synchronized clock.

14. Time Limits: For the Mayor's Cup, Kaltenborn and Gillies Series, a yacht must finish within 7 hours of their respective start time. For the Spring and Summer Series, a yacht must finish within 2-1/2 hours of their respective start time. For the Beer Can Series, a yacht must finish within 2 hours of their respective start time. Any boats that fail to finish within the allotted time will be scored a DNF. In the event that no boats in a particular division finish, the race for that division will not count. This will not cause a change in the season qualifying criteria. The race may be rescheduled at the discretion of the Fleet Captain. In the event that one or more races are cancelled and not rescheduled, the season qualification will be reduced by the number of races dropped for those divisions involved.

15. deleted

16. Scoring: The Low Point Scoring System of Appendix A4 will apply for all races. Race ties and series ties will be handled according to A7 and A8.

17. Protests: Protests will be handled in accordance with the RRS. A boat protesting another boat shall so inform the race committee as soon as practical or immediately after finishing. Protests shall be written on US Sailing forms available from the Race Committee and filed with the Race Committee, Fleet Captain, or left in the mail slot on the dock house *within one hour of the time the Race Committee returns to their mooring or the SYC dock*.

18. Minimum Equipment and Safety Requirements: To participate in any racing event of the Setauket Yacht Club, a boat shall meet the minimum equipment and safety recommendations of the YRA of Long Island Sound. US Sailing RRS prescribes that every boat shall carry lifesaving equipment conforming to government regulations (RRS #40). The responsibility for providing and maintaining a safe and seaworthy vessel rests entirely on the owner and the owner's representative. SYC requires the following:

1. Structurally strong, essentially watertight, self draining cockpit permanently incorporated as a structural part of the hull.
2. USCG approved running lights which will remain unobstructed by sails and when the yacht is heeled in heavy weather.
3. USCG approved fire extinguishers, readily accessible, and at least one.
4. One manual bilge pump operable with all seats and hatches closed.
5. One suitable anchor and rode.
6. Water resistant flashlights and signal light.
7. First Aid Kit and manual.
8. Fog Horn.
9. Shut-off valves at all fuel tanks.
10. Properly installed, adjusted marine compass.
11. Suitable charts, light lists and equipment for plotting.
12. Heavy weather sails or reefing equipment for sails.
13. Suitable tools and spare parts.
14. USCG approved life jackets for each person carried on board and be accessible. SYC recommends PFD's be worn in all activities. The safety of a yacht and her crew is the responsibility of the owner and the owner's representative.
15. Safety harness for each member of the crew.
16. Flare gun, pistol or equivalent and 6 flares not passed date of expiration.
17. Bow pulpit and lifelines.

It is required for night racing the crew consists of at least three persons, including the skipper, and it is recommended that safety harnesses and life jackets be worn.

The Fleet Captain (or in his/her absence, an officer of SYC), may judge a yacht unsuitable for club sponsored racing events due to design or unsound condition. The owner shall be notified and he or she is not to participate in any club sponsored racing event. The owner shall have the right to appeal this ruling to the board of governors, whose decision is final.

COURSES

Spring and Summer Series:

The Race Committee has the responsibility to select the course from one of the following preset courses or any other may be devised. Outside the harbor courses are preferred. Inside the harbor courses are reserved for nasty weather conditions. The following marks are used in the outside the harbor courses. The locations of the club marks are somewhat different than last year.

A: Government Spherical Buoy "M" located off the entrance to Mt. Sinai Harbor.

B: Government can buoy C"11" approx 1 mile off Mt. Misery Point

C: Government Light buoy R/W whistle "PJ" is located about 1 mile from the entrance to Port Jefferson Harbor.

D: Government gong buoy "11A" off Old Field Point

F: Government bell buoy R "2" located south of Middle Ground

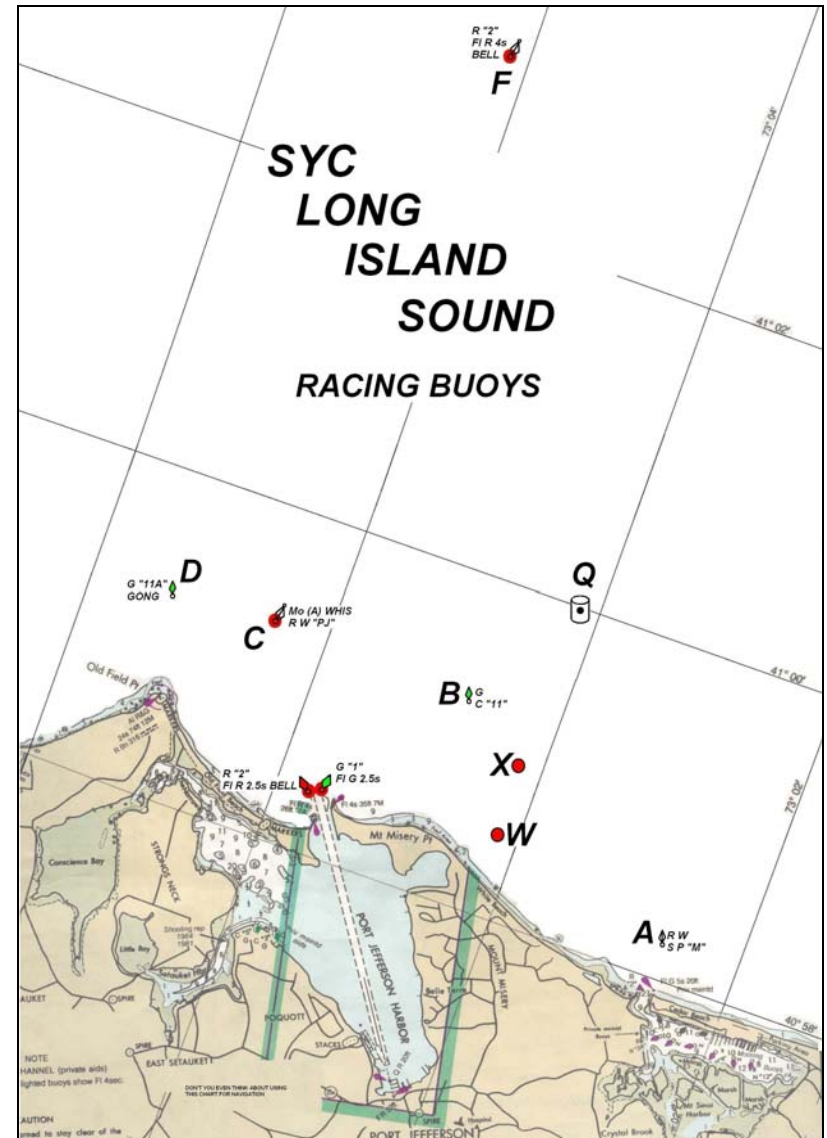
Q: Club Mark "Q" is a white barrel marked with a black circle and located approx 1 mile north of can C "11"

W: Club Mark "W" is an orange ball and is located off the beach approximately 1 mile east of the Port Jefferson Harbor entrance.

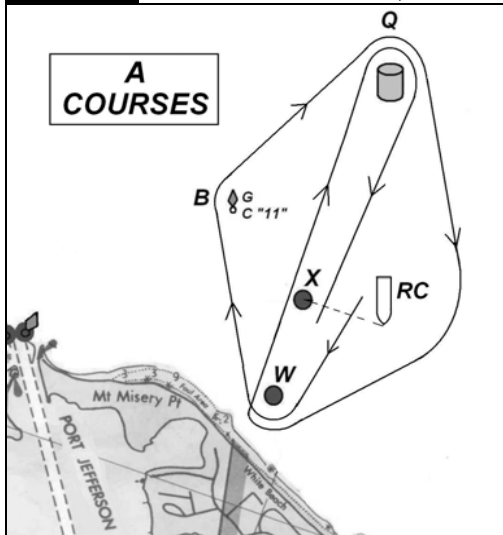
X: Club Mark "X" is also an orange ball and is located approximately ¾ miles off the beach and 1 mile east of the Port Jefferson Harbor entrance.

Certain course legs pass the race start/finish line. Competitors may leave the committee boat and buoy to either side but **must not sail between them except to finish**. This is not the case when the start/finish mark is a turning mark.

The courses defined in these instructions are designed to be shortened at the discretion of the Race Committee for any reason including loss of wind, storms, darkness, etc. In light air conditions, it is recommended that the long course be indicated at the start. If conditions do not improve, the Race Committee may give notification to shorten the race in progress (see page 22).

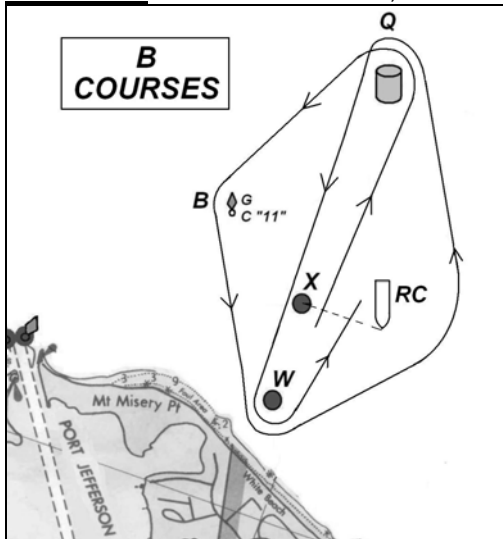


A Courses: Wind from the South, leave all marks to starboard



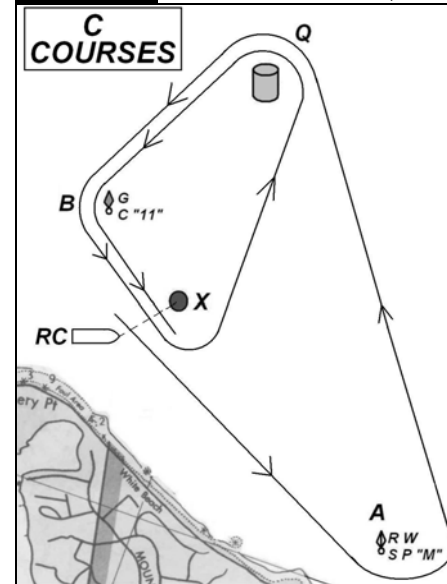
A1 (approx 6.3 miles) Start/Finish at X: **X W B Q W Q X**
A2 (approx 4.1 miles) Start/Finish at X: **X W B Q W X**
A3 (approx 3.3 miles) Start/Finish at X: **X W B Q X**

B Courses: Wind from the north, leave all marks to port



B1 (approx 6.3 miles) Start/Finish at X: **X Q B W Q W X**
B2 (approx 5.5 miles) Start/Finish at X: **X Q B W Q X**
B3 (approx 3.3 miles) Start/Finish at X: **X Q B W X**

C Courses: Wind from the east, leave all marks to port

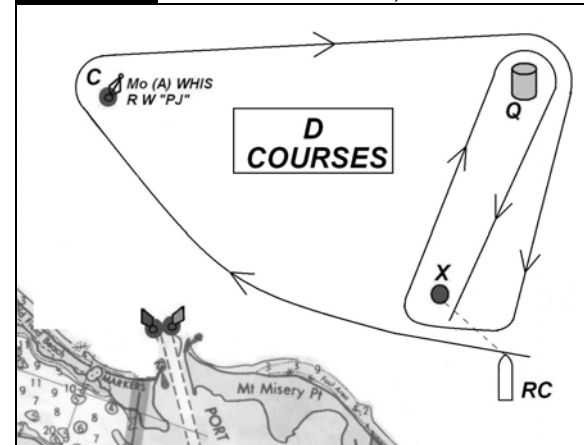


C1 (approx 7.6 miles)
 Start/Finish at X:
X A Q B X Q B X

C2 (approx 5.0 miles)
 Start/Finish at X:
X A Q B X

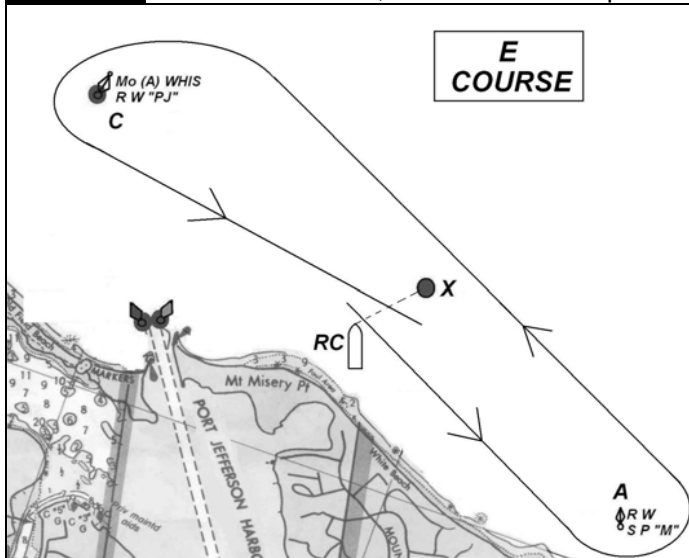
C3 (approx 4.6 miles)
 Start/Finish at X:
X A Q X

D Courses: Wind from the west, leave all marks to starboard



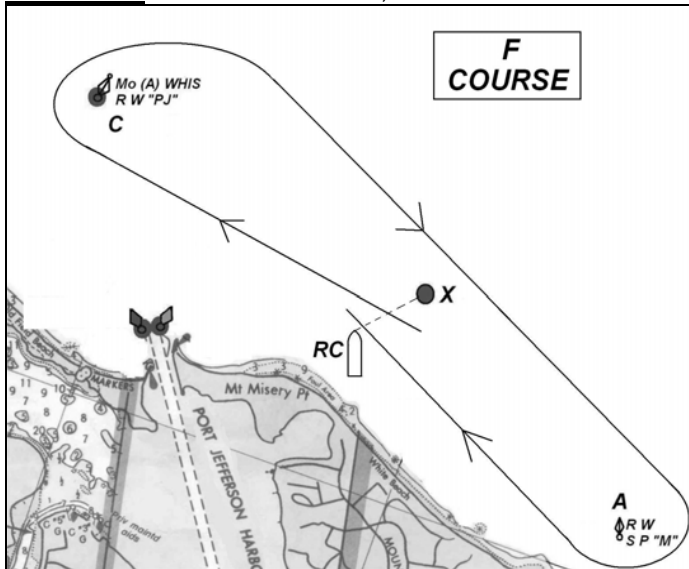
D1 (approx 7.1 miles) Start/Finish at X: **X C Q X Q X**
D2 (approx 6.1 miles) Start/Finish at X: **X C Q X B X**
D3 (approx 4.9 miles) Start/Finish at X: **X C Q X**

E Courses: Wind from the east, leave all marks to port



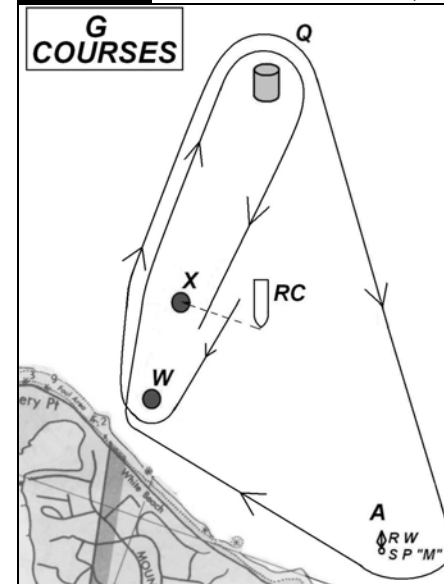
E1 (approx 6.2 miles) Start/Finish at X: **X A C X**

F Courses: Wind from the west, leave all marks to starboard



F1 (approx 6.2 miles) Start/Finish at X: **X C A X**

G Courses: Wind from the South, leave all marks to starboard



G1 (approx 7.9 miles)
Start/Finish at X:
X W Q A W Q X

G2 (approx 5.7 miles)
Start/Finish at X:
X W Q A W X

Courses for the Fall Series:

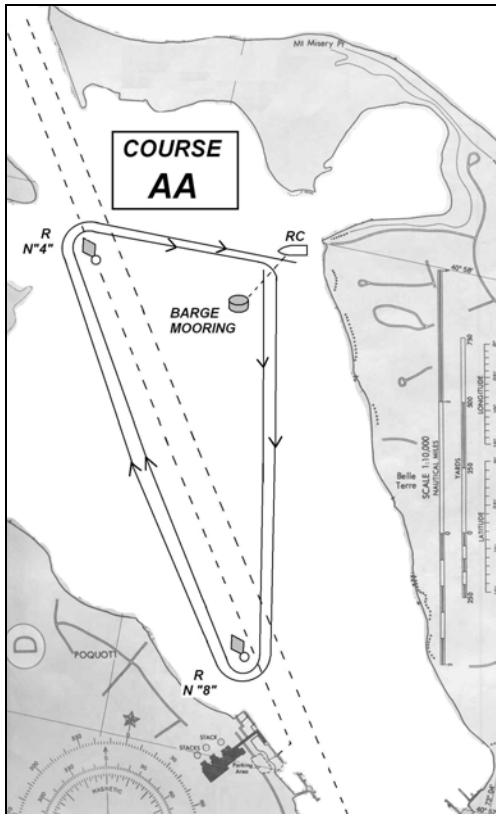
The Fall Series races will have courses on Long Island Sound ranging from government marks as far west as Oyster Bay, as far north as Milford, CT and as far east as Shoreham. Contact the Fleet Captain if you have ideas or suggestions for possible courses for the 2005 Fall Series.

Courses for the Beer Can Series:

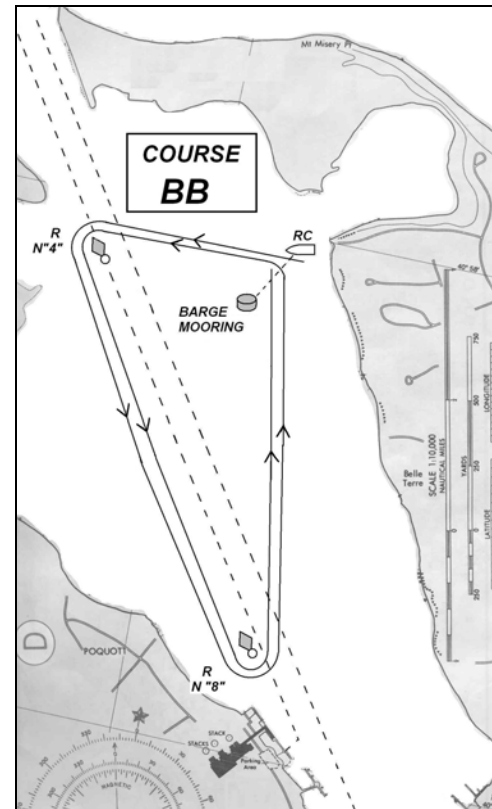
Courses for the Beer Can Series will not be restricted to the Spring/Summer race courses. The Beer Can Series courses will be determined taking into account the time of sunset, wind conditions, and will use a variety of marks which may include additional temporary marks. Racers are invited to meet in the SYC club house following the finish for debriefing (read as "socializing"!). Despite the casual nature of the Beer Can Races, additional rules or race requirements may be in effect. These requirements are to test boat handling abilities, cooperation skills, and sense of humor.

Alternate Courses inside the harbor:

In nasty weather conditions usually with wind from the NE, or anticipating a late race (primarily Beer Can Series), the race committee may decide to race inside the harbor.



Course AA: (leave all marks to starboard)
 Start/Finish line will be between the RC and barge mooring buoy (or temporary mark if used)
 Nun buoy "8"
 Nun buoy "4"
 Barge mooring buoy (or temporary mark if used)
 Nun buoy "8"
 Nun buoy "4"
 Start/Finish line.



Course BB: (leave all marks to port)
 Start/Finish line will be between the RC and barge mooring buoy (or temporary mark if used)
 Nun buoy "4"
 Nun buoy "8"
 Barge mooring buoy (or temporary mark if used)
 Nun buoy "4"
 Nun buoy "8"
 Start/Finish line.

Racers are not allowed to race inside the mooring field. The mooring field is defined as the northern most edge and western edge of area where permanent moorings are in place. Anchored boats outside of mooring field are not considered part of the mooring field. Failure to stay clear of the mooring area will result in disqualification. Adhere to Rules of the Road with regard to large vessel commercial traffic underway.

INSTRUCTIONS FOR RACE COMMITTEE

TIME ALLOWANCE: Committee Boat should be positioned at start line no less than ONE HALF HOUR prior to first warning signal. Plan to leave dock no later than one hour before start. Courses will be picked by the Race Committee, Fleet Captain or designate.

REQUIRED EQUIPMENT: Items 1 through 8 are available at the dock house or JSP building or from the Fleet Captain. Items 9 to 11 are the responsibility of the captain of the Committee Boat.

1. Start flags.
2. Course identification cards – A1, A2, A3, B1, etc.
3. Yellow flag to place on the committee boat to mark one end of the starting/finishing line.
4. Flags for shortened course, postponement, cancellations, or general recall (Answering Pennant, N, S, and 1st Repeater).
5. Two air horns. (Use police whistle if both fail).
6. Scratch (score) sheets.
7. Race Committee Flag.
8. Temporary starting line mark, anchor, line and pump (If necessary).
9. Watch capable of reading hour, minutes, and seconds or a GPS receiver with a clock function.
10. Life jackets and cushions.
11. Anchor and rode for Committee Boat-200 feet minimum required for deep water.

BEFORE LEAVING DOCK:

1. Set watch or chronometer to official GPS time.
2. Check weather forecast using VHF Wx channels and any other source.
3. Race may be cancelled or postponed before leaving dock. Use appropriate audible and visual signals and announce the change over VHF channel 72.
4. Fly Race Committee Flag before leaving the dock or mooring and en-route to the race course.
5. Fire one sound signal (horn blast) as Committee Boat leaves dock or mooring. Announce over VHF channel 72 if the anticipated starting area is inside the harbor.

SETTING THE COURSE:

1. Determine wind direction and choose a suggested course or come up with another to suit the conditions. The first leg is generally to windward (review course diagrams).
2. The Committee Boat will use Government Marks or the Club marks "W" or "X" as a starting pin as indicated in the instructions. Set the starting line perpendicular to the wind, or if this is not possible, the windward mark. (The temporary starting mark can serve as the other end of the starting line.)
3. The start line should be at least equal in length to 1.5 times the combined lengths of the boats making up the largest fleet.

BEFORE START:

1. Rig for hoisting of start shapes or flags and display course letters.
2. **Check in racers:** As each skipper hails you and comes by the race committee boat to check in, find the boat's name on the scratch/score sheet and check off. Write down any information that is not already on the sheet: name of boat, sail number, and division. **NOTE: Skippers are responsible for checking in prior to their division warning signal.**
3. Give each boat a time check when requested.
4. Complete all information on scratch/score sheets.

DURING THE START:

1. Sight line from position behind Yellow Flag on Committee Boat.
2. If a boat is over the line early, try to hail for recall, calling out boat sail number after the starting flag and one horn signal. Announce recall on VHF Channel 72.

NOTE--Boats are responsible for starting correctly.

STARTING SIGNALS:

Starting signals are as indicated in race instructions in this booklet in accordance with RRS #26. **NOTE: The hoisting of the visual signal (flag) is the official mark of time, not the sound signal.**

Should a division not race due to no racers; the starting sequence will remain the same.

If a daytime race cannot begin at the designated posted time because of wind or other valid reasons, the Race Committee may delay the start for a maximum of two hours at which time, if the starting sequence has not begun, the race will be cancelled for the day and rescheduled at the discretion of the Fleet Captain.

SPECIAL SIGNALS:

Any change made while at the race course should be announced on VHF channel 72.

1. **COURSE CHANGE:** No flag; two sound signals and new course letter. Record the new course on the scratch sheet.
2. **POSTPONEMENT:** Code flag "Answer Pennant" (red and white); two sound signals. All races not yet started are postponed until later in the day. Upon lowering the "Answer Pennant" signal and the firing of one sound signal, either the warning signal (class flag) or the cancellation signal will be displayed within 30 seconds.
3. **CANCELLATION:** Code flag "N" (blue and white checked); two sound signals. All races, including those in progress called off.
4. **GENERAL RECALL:** Code flag "First Substitute" (blue and yellow triangle) with two sounds (horn).

The division starting is recalled for another start. The warning signal for a new start for the recalled division shall be made one minute after the First Substitute is removed (one sound), and the starts for any succeeding divisions shall follow the new start.

5. **SHORTENING THE COURSE AFTER THE START:** Code flag "S" (white and blue square) with 2 sounds. If a course number for the shortened course is given in these instructions, display the course number for the competitors. Record the new course on the scratch sheet.

6. **ABANDONING THE COURSE AFTER THE START:** Code flag "N" (blue and white checkered) with 3 sounds

AT THE FINISH:

Spotter: Record sail numbers as boats approach finish line.

Sighter: Sight along the finish line from position behind yellow flag on committee boat. Sound a horn or whistle as each boat crosses the line. Record the finishing time in hours, minutes, and seconds. This is the official data for the boats' finishes. NOTE - A YACHT FINISHES WHEN ANY PART OF THE HULL, CREW OR EQUIPMENT IN NORMAL POSITION, CROSSES THE FINISH LINE FROM THE DIRECTION OF THE COURSE FROM THE

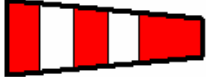
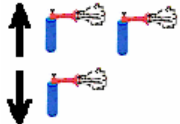

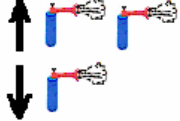
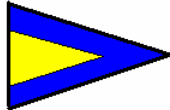
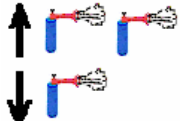
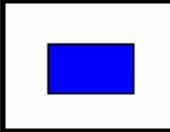

LAST MARK. A cannon salute, if available, should be given to the first finishing boat of each division. (Aim above the waterline!)

AFTER THE RACE:

1. Check that the scratch/score sheets are legible.
2. Note the times of starting for each division.
3. Note protests on scratch/score sheets. Written protests go to the Fleet Captain or must be left in the mail slot located in the dockhouse.
4. Write your comments on finish sheet about Committee Boat equipment failures, losses or any special problems encountered during the race.
5. Race results are to be given to the Fleet Captain.
6. Make certain all boats are accounted for. Record any boats that do not finish with DNF.

Questions, comments, and suggestions for these instructions or the Setauket Yacht Club racing program in general can be directed to Dan Dunmire, Fleet Captain, SYC

SPECIAL SIGNALS

POSTPONEMENT	 AP Answering Pennant RED AND WHITE	
ABANDONMENT	 "N" FLAG BLUE AND WHITE	
GENERAL RECALL	 FIRST SUBSTITUTE BLUE AND YELLOW	
SHORTENED COURSE	 "S" FLAG BLUE AND WHITE	

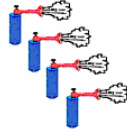

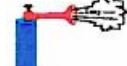

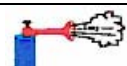












↑ FLAG UP

↓ FLAG DOWN



AUDIBLE SIGNAL (GUN OR HORN)

STARTING SEQUENCE

	Event	Visual Signal	Sound Signal	Time After First Gun	Time To Start by Division
Division A Spinnaker	Pre-Warning 4 short toots	None		1 minute to go	6 minutes
	Warning "First Gun"	UP Class flag (GREEN) ↑ 		0 minute	5 minutes
	Preparatory	UP Prep Flag ↑ 		1 minutes	4 minutes
		DOWN Prep Flag  ↓		4 minutes	1 minute
	* Start Division A and Warning Division B	Down Class Flag (GREEN) ↓ 		5 minutes	0
Division B Non-Spinnaker		UP Class flag (RED) ↑ 		* 5 minute	5 minutes
	Preparatory	UP Prep Flag ↑ 		* 6 minutes	4 minutes
		DOWN Prep Flag  ↓		* 9 minutes	1 minute
	Start	Down Class Flag (RED) ↓ 		* 10 minutes	0

★ The **Division B Warning** should be made with the **Division A Start** but could be delayed at the discretion of the Race Committee. If delayed, the Time after First Gun marked "★" in this table should be disregarded.