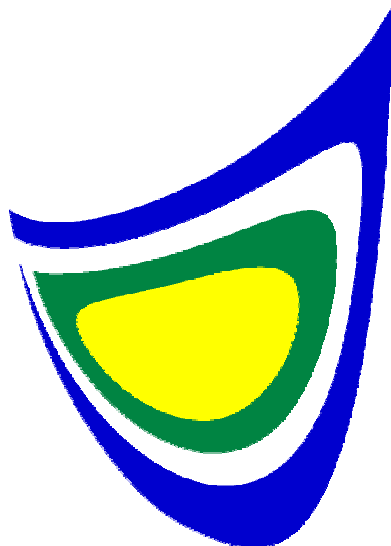


Application Note

Publishing Team Races Using a Team Race Schedule



March 12, 2008



With version 3.0.0.0, the Kattack Race Publisher (publisher) now has the capability to use a Race Schedule (schedule) to help automate the publishing of team races. This document will walk through the creation of a team race highlighting the changes to the publisher. It is assumed that you have some knowledge of how to publish a fleet race prior to reading this document.

The Challenges of Team Racing

There are two main problems with publishing team races as you would publish a fleet race. The first is that the teams rotate boats so the names associated with each boat change with each race. In fleet racing the boat names stay the same for the entire regatta. The second problem is that only six of the 18 or 24 available boats are in any given race. The others are on the sideline or queuing up for another race. In a fleet race, all boats are in each race. In addition, there are usually many races (as many as 60-100) each day. This makes even the simple tasks of determining start times, end times, course headings, marks and course definitions more tedious.

The Race Schedule

To address the challenges posed by team racing, the Publisher now has the capability to use a Race Schedule to help streamline the race publishing process. The Race Schedule is used by the publisher to determine which boats are in a race, start and end times, course headings, team names and team colors. In addition, the publisher will automatically copy marks and course information from one race to the next. This turns race creation into more of a verification process where the usual steps are followed but all the data is pre-entered. All values entered in the schedule can be overridden from within the publisher.

Sample Race Schedule

Race	StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2
1	11:00:00 AM	11:10:00 AM	135	Georgetown	Brown	Red	Yellow
2	11:03:00 AM	11:13:00 AM	135	CGA	Conn Coll	Pink	Black
3	11:06:00 AM	11:16:00 AM	135	Dartmouth	Harvard	Green	Blue
4	11:09:00 AM	11:19:00 AM	135	KP	NY Maritime	Orange	LightGreen
5	11:12:00 AM	11:22:00 AM	135	RWU	St Mary's	Red	Yellow
6	11:15:00 AM	11:25:00 AM	135	MIT	Yale	Pink	Black
7	11:18:00 AM	11:28:00 AM	135	Georgetown	CGA	Green	Blue
8	11:21:00 AM	11:31:00 AM	135	Conn Coll	Brown	Orange	LightGreen
9	11:24:00 AM	11:34:00 AM	135	Dartmouth	KP	Red	Yellow
10	11:27:00 AM	11:37:00 AM	135	Harvard	NY Maritime	Pink	Black
11	11:30:00 AM	11:40:00 AM	135	RWU	MIT	Green	Blue



Comment	Team1Boat1	Team1Boat2	Team1Boat3	Team2Boat1	Team2Boat2	Team2Boat3
Georgetown vs Brown	1	2	3	4	5	6
CGA vs Conn Coll	7	8	9	10	11	12
Dartmouth vs Harvard	13	14	15	16	17	18
KP vs NY Maritime	19	20	21	22	23	24
RWU vs St Mary's	1	2	3	4	5	6
MIT vs Yale	7	8	9	10	11	12
Georgetown vs CGA	13	14	15	16	17	18
Conn Coll vs Brown	19	20	21	22	23	24
Dartmouth vs KP	1	2	3	4	5	6
Harvard vs NY Maritime	7	8	9	10	11	12
RWU vs MIT	13	14	15	16	17	18

Race

The race number. Must be an integer number greater than 0. Does not need to start at 1.

Start Time

Race start time (not the beginning of the playback). A user defined prestart will be added to the race by the publisher.

End Time

Some time after the last boat crosses the finish line.

Course Heading (optional column)

Must be 0-359. If this column is omitted, the heading will default to 0.

Team 1 & Team 2

Team Names

Color 1 & Color 2

Boat Colors

Comment (optional column)

This will typically be the teams that are competing because the races are numbered by default. Putting the team names in the comment makes it easier to find the desired race in the Race Player.



TeamNBoatN

These columns must contain the boat name. In team racing boat names are typically the bow number. The value must match the .gpx filename. For example, if the boat name is “10” and its GPX file is “10.gpx”, the entry in this column must be “10”. Typically boats are numbered but that is not required.

NOTE: If you have used two digit bow numbers (i.e. “01” rather than “1”) and have files names 01.gpx, you need to make sure the value in the schedule is “01” not “1”. MS Excel will convert “01” to “1” automatically. To get Excel to keep “01” in the cell you must prefix the value with a single quote “'”. For example, to get “01” Excel will require “'01”.

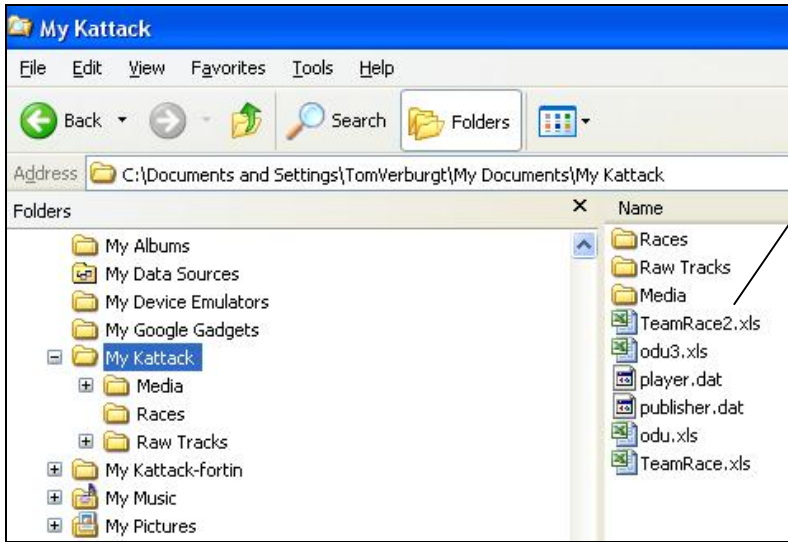
Additional Columns

It is OK for the schedule to contain additional columns. They will be ignored by the publisher.



Creating a Race Schedule

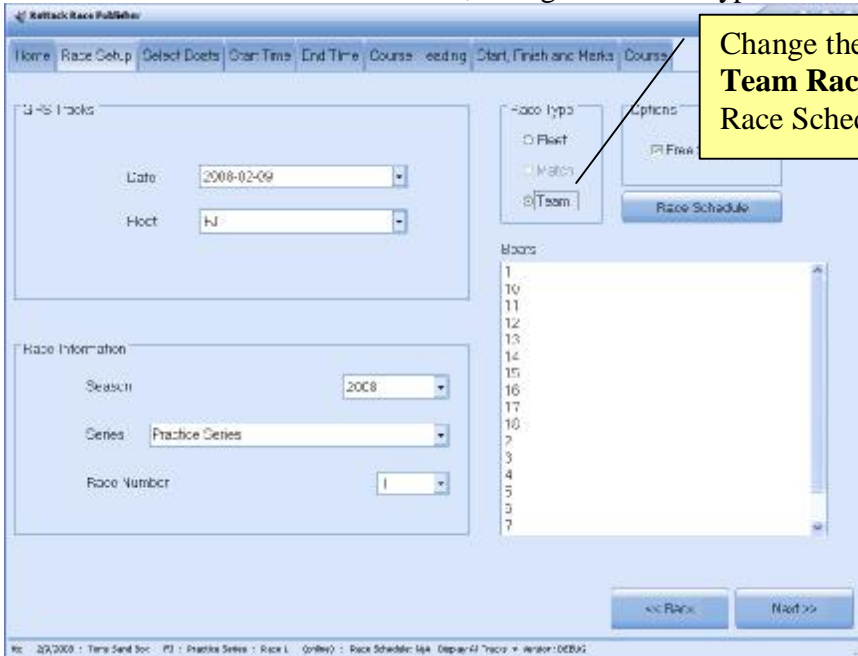
Schedules must be created using MS Excel and saves as “.xls” files. By default, the publisher looks for the schedule file in the “My Kattack” directory under “My Documents”.



Race Schedules

Load a Race Schedule

To enable the Race Schedule button, change the Race Type to Team Race.



Change the **Race Type** to **Team Race** to enable the Race Schedule button.

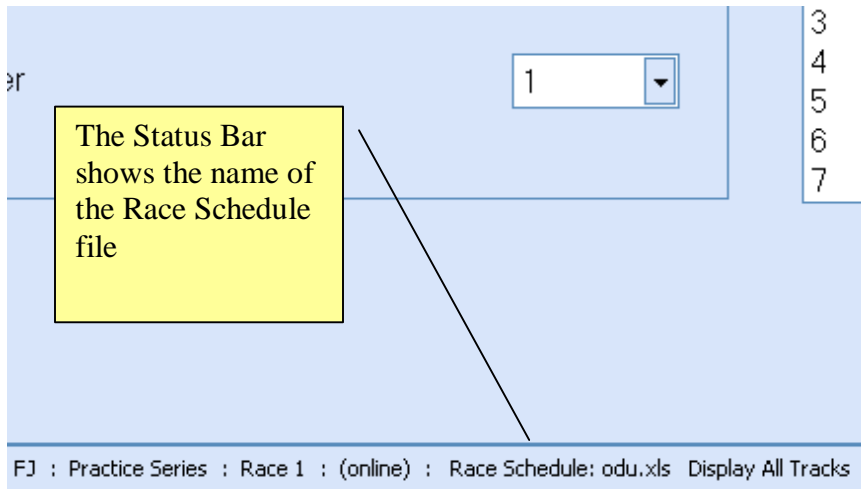


Click the Race Schedule Button and select a schedule. The schedule is displayed for verification but cannot be edited within the publisher. The schedule file is checked for validity when it is loaded and error messages will be displayed if any problem is found.

A Sample Race Schedule

Race	ESTStartTime	StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2	RaceName
1	12/30/1899 3:36...	2/9/2008 2:36 PM	2/9/2008 2:48 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
2	12/30/1899 3:40...	2/9/2008 2:40 PM	2/9/2008 2:52 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
3	12/30/1899 3:45...	2/9/2008 2:45 PM	2/9/2008 2:57 PM	245	ODU	Navy	Blue	Red	ODU vs N
4	12/30/1899 3:59...	2/9/2008 2:59 PM	2/9/2008 3:11 PM	245	St Mary's	ODU	Blue	Red	St Mary's t
5	12/30/1899 4:03...	2/9/2008 3:03 PM	2/9/2008 3:15 PM	245	Georgetown	Navy	Blue	Red	Georgetown
6	12/30/1899 4:06...	2/9/2008 3:06 PM	2/9/2008 3:18 PM	245	St Mary's	ODU	Blue	Red	St Mary's t
7	12/30/1899 4:20...	2/9/2008 3:20 PM	2/9/2008 3:32 PM	245	ODU	Georgetown	Blue	Red	ODU vs G
8	12/30/1899 4:24...	2/9/2008 3:24 PM	2/9/2008 3:36 PM	245	St Mary's	Navy	Blue	Red	St Mary's t
9	12/30/1899 4:27...	2/9/2008 3:27 PM	2/9/2008 3:39 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
10	12/30/1899 4:40...	2/9/2008 3:40 PM	2/9/2008 3:52 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
11	12/30/1899 4:43...	2/9/2008 3:43 PM	2/9/2008 3:55 PM	245	St Mary's	Navy	Blue	Red	St Mary's t
12	12/30/1899 4:47...	2/9/2008 3:47 PM	2/9/2008 3:59 PM	245	ODU	ODU	Blue	Red	ODU vs O
13	12/30/1899 4:57...	2/9/2008 3:57 PM	2/9/2008 4:09 PM	245	Georgetown	ODU	Blue	Red	Georgetown
14	12/30/1899 5:01...	2/9/2008 4:01 PM	2/9/2008 4:13 PM	245	ODU	Navy	Blue	Red	ODU vs N
15	12/30/1899 5:04...	2/9/2008 4:04 PM	2/9/2008 4:16 PM	245	St Mary's	St Mary's	Blue	Red	St Mary's t
16	12/30/1899 5:15...	2/9/2008 4:15 PM	2/9/2008 4:27 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
17	12/30/1899 5:19...	2/9/2008 4:19 PM	2/9/2008 4:31 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
18	12/30/1899 5:22...	2/9/2008 4:22 PM	2/9/2008 4:34 PM	245	Navy	ODU	Blue	Red	Navy vs O

The Race Schedule allows a new schedule to be opened or an exiting schedule cleared out.



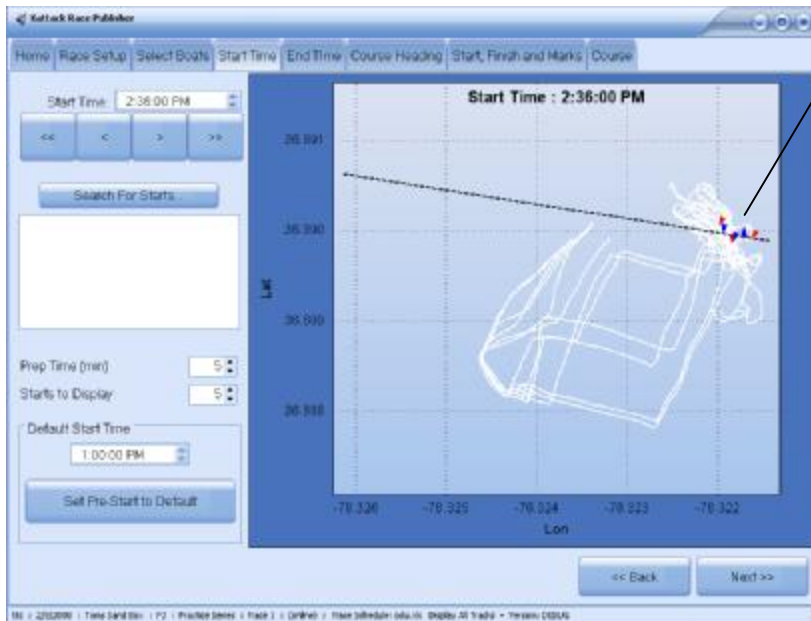


Select Boats Page

When using a schedule, the Select Boats page is skipped and the publisher jumps ahead to the start time window

Start Time Page

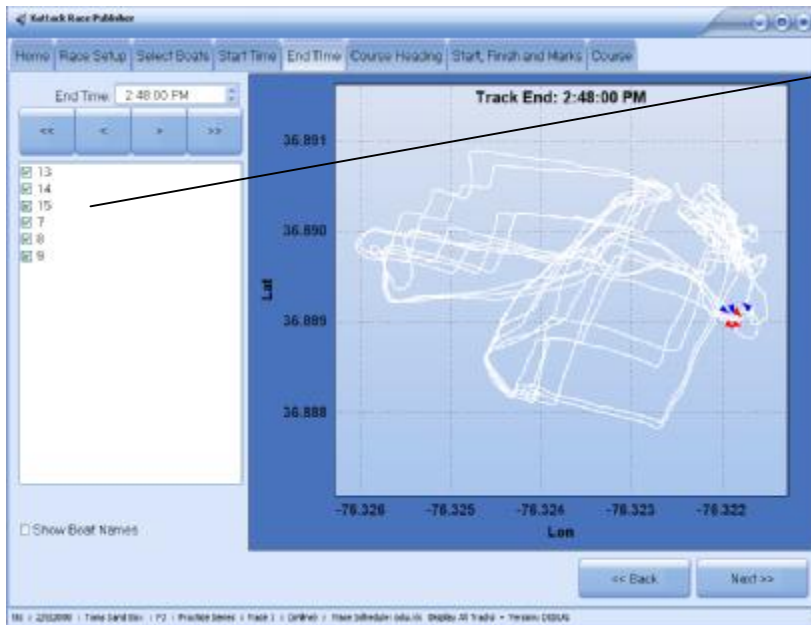
StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2
2/9/2008 2:36 PM	2/9/2008 2:48 PM	245	Georgetown	St Mary's	Blue	Red



Start time and boat colors are copied from the schedule

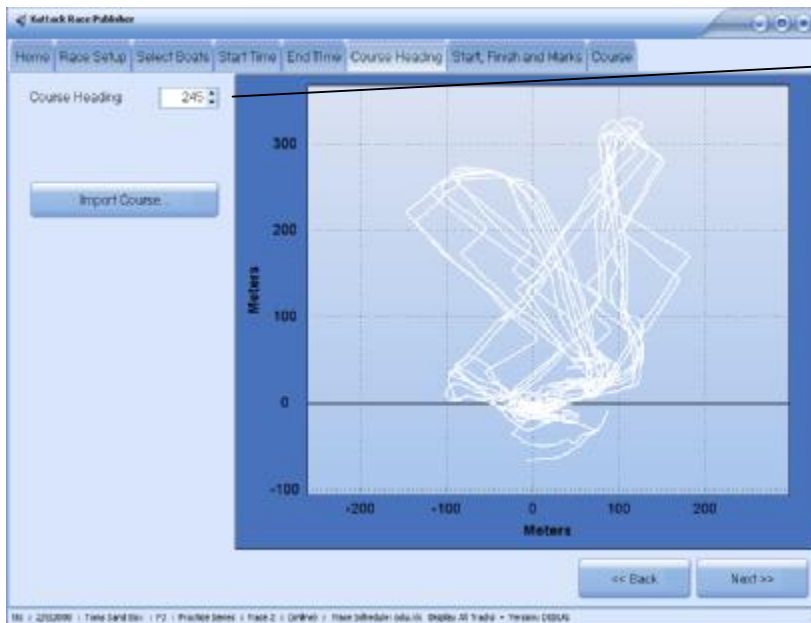


End Time Page



Selected Boats are copied from the schedule

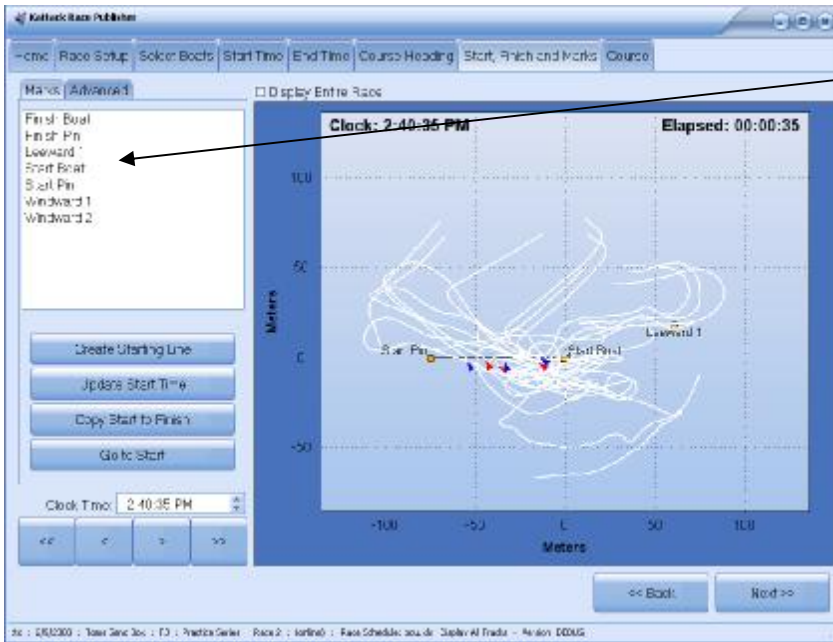
Course Heading Page



Course heading is copied from the schedule



Marks Page

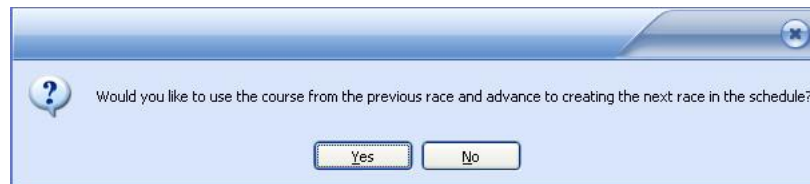


Marks and course are copied from the previous race



Tail length can be changed under the "Advanced" tab to make the start easier to see.

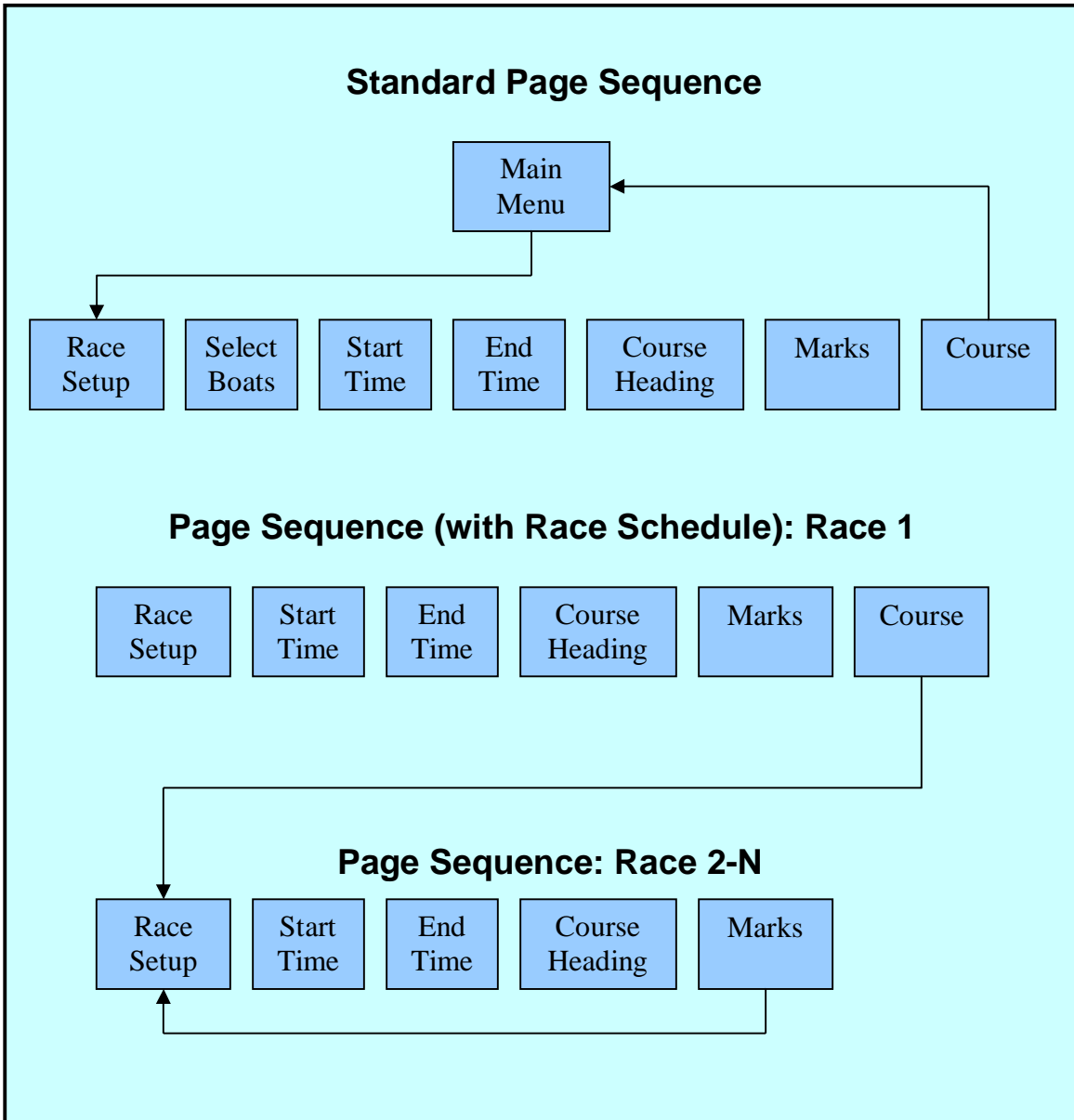
After the marks page is complete, the user has the option to skip the course page and create the next race.





Page Sequence

The sequence of steps for creating races is optimized when using a Race Schedule. For the first race, the only changes are that the Select Boats page is skipped and that after the course page is complete the publisher skips directly back to the Race Setup page. For Races 2-N, the marks and course are copied from the previous race. In addition, after the Marks page is complete, the publisher provides the option to skip the Course page and go directly to the Race Setup page for the next race.





Sample Excel Race Schedule

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	11:00:00 AM	11:10:00 AM	175	Georgetown	Brown	Red	Yellow	Georgetown vs Brown	1	2	3	4	5	6
2	11:00:00 AM	11:10:00 AM	175	Georgetown	Green	Black	CGA vs Corn Coll	Georgetown vs Brown	7	8	9	10	11	12
3	11:00:00 AM	11:10:00 AM	175	CGA	Corn Coll	Green	Blue	CGA vs Corn Coll	13	14	15	16	17	18
4	11:00:00 AM	11:10:00 AM	175	Dartmouth	Harvard	Orange	Lightgreen	Dartmouth vs Harvard	19	20	21	22	23	24
5	11:00:00 AM	11:10:00 AM	175	NY Maritime	Georgetown	Red	Yellow	Georgetown vs NY Maritime	7	8	9	10	11	12
6	11:10:00 AM	11:20:00 AM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	13	14	15	16	17	18
7	11:10:00 AM	11:20:00 AM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24
8	11:10:00 AM	11:20:00 AM	175	Georgetown	NY Maritime	Orange	Lightgreen	Georgetown vs NY Maritime	7	8	9	10	11	12
9	11:10:00 AM	11:20:00 AM	175	Georgetown	NY Maritime	Green	Blue	Georgetown vs NY Maritime	13	14	15	16	17	18
10	11:20:00 AM	11:30:00 AM	175	Harvard	NY Maritime	Red	Yellow	Dartmouth vs Georgetown	1	2	3	4	5	6
11	11:20:00 AM	11:30:00 AM	175	Harvard	NY Maritime	Orange	Lightgreen	Harvard vs NY Maritime	7	8	9	10	11	12
12	11:30:00 AM	11:40:00 AM	175	Georgetown	NY Maritime	Green	Blue	Georgetown vs NY Maritime	13	14	15	16	17	18
13	11:30:00 AM	11:40:00 AM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24
14	11:30:00 AM	11:40:00 AM	175	Georgetown	NY Maritime	Orange	Lightgreen	Georgetown vs NY Maritime	7	8	9	10	11	12
15	11:30:00 AM	11:40:00 AM	175	Dartmouth	Harvard	Green	Blue	Dartmouth vs Harvard	13	14	15	16	17	18
16	11:40:00 AM	11:50:00 AM	175	CGA	Corn Coll	Red	Yellow	CGA vs Harvard	19	20	21	22	23	24
17	11:40:00 AM	11:50:00 AM	175	CGA	Corn Coll	Orange	Lightgreen	CGA vs Harvard	7	8	9	10	11	12
18	11:40:00 AM	11:50:00 AM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	13	14	15	16	17	18
19	11:40:00 AM	11:50:00 AM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24
20	11:50:00 AM	12:00:00 PM	175	Dartmouth	Harvard	Pink	Black	NY Maritime vs Yale	1	2	3	4	5	6
21	11:50:00 AM	12:00:00 PM	175	Brown	Harvard	Orange	Lightgreen	Brown vs Georgetown	7	8	9	10	11	12
22	12:00:00 PM	12:10:00 PM	175	CGA	Corn Coll	Red	Yellow	CGA vs Georgetown	13	14	15	16	17	18
23	12:00:00 PM	12:10:00 PM	175	CGA	Corn Coll	Orange	Lightgreen	CGA vs Georgetown	19	20	21	22	23	24
24	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	7	8	9	10	11	12
25	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	13	14	15	16	17	18
26	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Orange	Lightgreen	Harvard vs NY Maritime	19	20	21	22	23	24
27	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	7	8	9	10	11	12
28	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Red	Yellow	Dartmouth vs Georgetown	13	14	15	16	17	18
29	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Orange	Lightgreen	Dartmouth vs Georgetown	19	20	21	22	23	24
30	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Pink	Black	Harvard vs NY Maritime	1	2	3	4	5	6
31	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	7	8	9	10	11	12
32	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	13	14	15	16	17	18
33	12:00:00 PM	12:10:00 PM	175	Georgetown	NY Maritime	Orange	Lightgreen	Georgetown vs NY Maritime	19	20	21	22	23	24
34	12:00:00 PM	12:10:00 PM	175	CGA	Corn Coll	Green	Blue	CGA vs Dartmouth	7	8	9	10	11	12
35	12:00:00 PM	12:10:00 PM	175	CGA	Corn Coll	Red	Yellow	CGA vs Dartmouth	13	14	15	16	17	18
36	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Orange	Lightgreen	NY Maritime vs Georgetown	19	20	21	22	23	24
37	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	7	8	9	10	11	12
38	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Red	Yellow	Harvard vs NY Maritime	13	14	15	16	17	18
39	12:00:00 PM	12:10:00 PM	175	Georgetown	NY Maritime	Orange	Lightgreen	Georgetown vs NY Maritime	19	20	21	22	23	24
40	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Green	Blue	Harvard vs NY Maritime	7	8	9	10	11	12
41	12:00:00 PM	12:10:00 PM	175	Corn Coll	NY Maritime	Red	Yellow	Corn Coll vs NY Maritime	13	14	15	16	17	18
42	12:00:00 PM	12:10:00 PM	175	Corn Coll	NY Maritime	Orange	Lightgreen	Corn Coll vs NY Maritime	19	20	21	22	23	24
43	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Green	Blue	Dartmouth vs Harvard	7	8	9	10	11	12
44	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Red	Yellow	Dartmouth vs Harvard	13	14	15	16	17	18
45	12:00:00 PM	12:10:00 PM	175	Brown	Harvard	Pink	Black	Brown vs NY Maritime	1	2	3	4	5	6
46	12:00:00 PM	12:10:00 PM	175	Georgetown	NY Maritime	Orange	Lightgreen	Georgetown vs NY Maritime	7	8	9	10	11	12
47	12:00:00 PM	12:10:00 PM	175	Georgetown	NY Maritime	Green	Blue	Georgetown vs NY Maritime	13	14	15	16	17	18
48	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Red	Yellow	Dartmouth vs Georgetown	19	20	21	22	23	24
49	12:00:00 PM	12:10:00 PM	175	Dartmouth	Harvard	Orange	Lightgreen	Dartmouth vs Georgetown	7	8	9	10	11	12
50	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Green	Blue	NY Maritime vs Georgetown	13	14	15	16	17	18
51	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24
52	12:00:00 PM	12:10:00 PM	175	Yale	Harvard	Orange	Lightgreen	Yale vs Georgetown	7	8	9	10	11	12
53	12:00:00 PM	12:10:00 PM	175	Yale	Harvard	Green	Blue	Yale vs Georgetown	13	14	15	16	17	18
54	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24
55	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Orange	Lightgreen	NY Maritime vs Georgetown	7	8	9	10	11	12
56	12:00:00 PM	12:10:00 PM	175	Brown	Harvard	Green	Blue	Brown vs NY Maritime	13	14	15	16	17	18
57	12:00:00 PM	12:10:00 PM	175	Brown	Harvard	Red	Yellow	Brown vs NY Maritime	19	20	21	22	23	24
58	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Orange	Lightgreen	Harvard vs NY Maritime	7	8	9	10	11	12
59	12:00:00 PM	12:10:00 PM	175	Harvard	NY Maritime	Green	Blue	Harvard vs NY Maritime	13	14	15	16	17	18
60	12:00:00 PM	12:10:00 PM	175	NY Maritime	Georgetown	Red	Yellow	NY Maritime vs Georgetown	19	20	21	22	23	24

Application Note

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March 12, 2008



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There are two main problems with publishing team races as you would publish a fleet race. The first is that the teams rotate boats so the names associated with each boat change with each race. In fleet racing the boat names stay the same for the entire regatta. The second problem is that only six of the 18 or 24 available boats are in any given race. The others are on the sideline or queuing up for another race. In a fleet race, all boats are in each race. In addition, there are usually many races (as many as 60-100) each day. This makes even the simple tasks of determining start times, end times, course headings, marks and course definitions more tedious.

The Race Schedule

To address the challenges posed by team racing, the Publisher now has the capability to use a Race Schedule to help streamline the race publishing process. The Race Schedule is used by the publisher to determine which boats are in a race, start and end times, course headings, team names and team colors. In addition, the publisher will automatically copy marks and course information from one race to the next. This turns race creation into more of a verification process where the usual steps are followed but all the data is pre-entered. All values entered in the schedule can be overridden from within the publisher.

Sample Race Schedule

Race	StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2
1	11:00:00 AM	11:10:00 AM	135	Georgetown	Brown	Red	Yellow
2	11:03:00 AM	11:13:00 AM	135	CGA	Conn Coll	Pink	Black
3	11:06:00 AM	11:16:00 AM	135	Dartmouth	Harvard	Green	Blue
4	11:09:00 AM	11:19:00 AM	135	KP	NY Maritime	Orange	LightGreen
5	11:12:00 AM	11:22:00 AM	135	RWU	St Mary's	Red	Yellow
6	11:15:00 AM	11:25:00 AM	135	MIT	Yale	Pink	Black
7	11:18:00 AM	11:28:00 AM	135	Georgetown	CGA	Green	Blue
8	11:21:00 AM	11:31:00 AM	135	Conn Coll	Brown	Orange	LightGreen
9	11:24:00 AM	11:34:00 AM	135	Dartmouth	KP	Red	Yellow
10	11:27:00 AM	11:37:00 AM	135	Harvard	NY Maritime	Pink	Black
11	11:30:00 AM	11:40:00 AM	135	RWU	MIT	Green	Blue



Comment	Team1Boat1	Team1Boat2	Team1Boat3	Team2Boat1	Team2Boat2	Team2Boat3
Georgetown vs Brown	1	2	3	4	5	6
CGA vs Conn Coll	7	8	9	10	11	12
Dartmouth vs Harvard	13	14	15	16	17	18
KP vs NY Maritime	19	20	21	22	23	24
RWU vs St Mary's	1	2	3	4	5	6
MIT vs Yale	7	8	9	10	11	12
Georgetown vs CGA	13	14	15	16	17	18
Conn Coll vs Brown	19	20	21	22	23	24
Dartmouth vs KP	1	2	3	4	5	6
Harvard vs NY Maritime	7	8	9	10	11	12
RWU vs MIT	13	14	15	16	17	18

Race

The race number. Must be an integer number greater than 0. Does not need to start at 1.

Start Time

Race start time (not the beginning of the playback). A user defined prestart will be added to the race by the publisher.

End Time

Some time after the last boat crosses the finish line.

Course Heading (optional column)

Must be 0-359. If this column is omitted, the heading will default to 0.

Team 1 & Team 2

Team Names

Color 1 & Color 2

Boat Colors

Comment (optional column)

This will typically be the teams that are competing because the races are numbered by default. Putting the team names in the comment makes it easier to find the desired race in the Race Player.



TeamNBoatN

These columns must contain the boat name. In team racing boat names are typically the bow number. The value must match the .gpx filename. For example, if the boat name is “10” and its GPX file is “10.gpx”, the entry in this column must be “10”. Typically boats are numbered but that is not required.

NOTE: If you have used two digit bow numbers (i.e. “01” rather than “1”) and have files names 01.gpx, you need to make sure the value in the schedule is “01” not “1”. MS Excel will convert “01” to “1” automatically. To get Excel to keep “01” in the cell you must prefix the value with a single quote “'”. For example, to get “01” Excel will require “'01”.

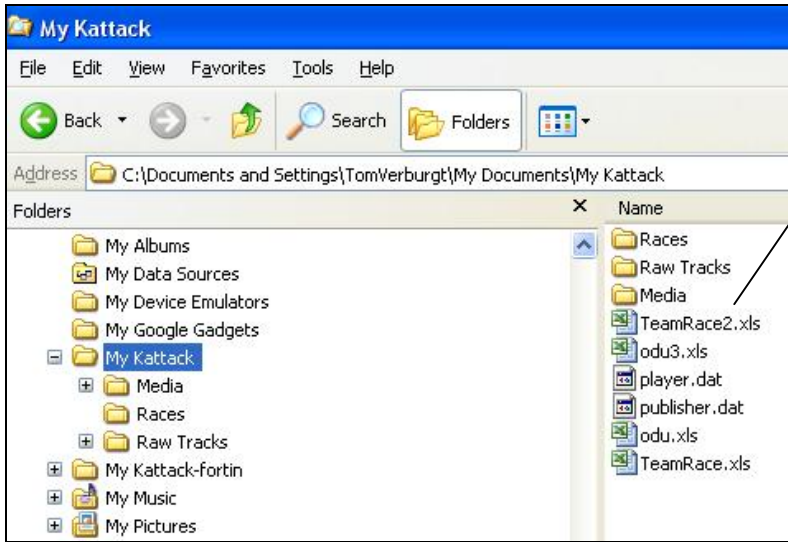
Additional Columns

It is OK for the schedule to contain additional columns. They will be ignored by the publisher.



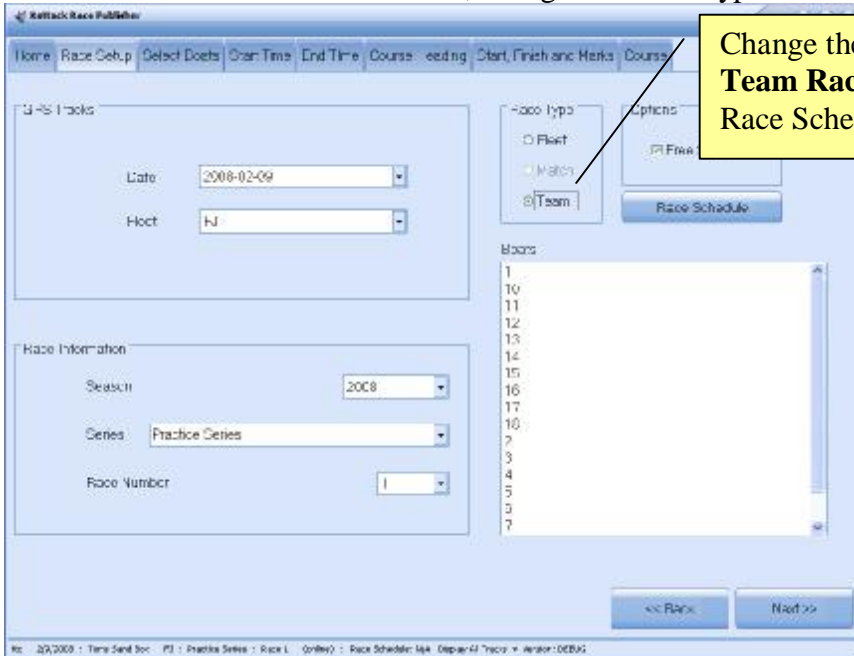
Creating a Race Schedule

Schedules must be created using MS Excel and saves as “.xls” files. By default, the publisher looks for the schedule file in the “My Kattack” directory under “My Documents”.



Load a Race Schedule

To enable the Race Schedule button, change the Race Type to Team Race.



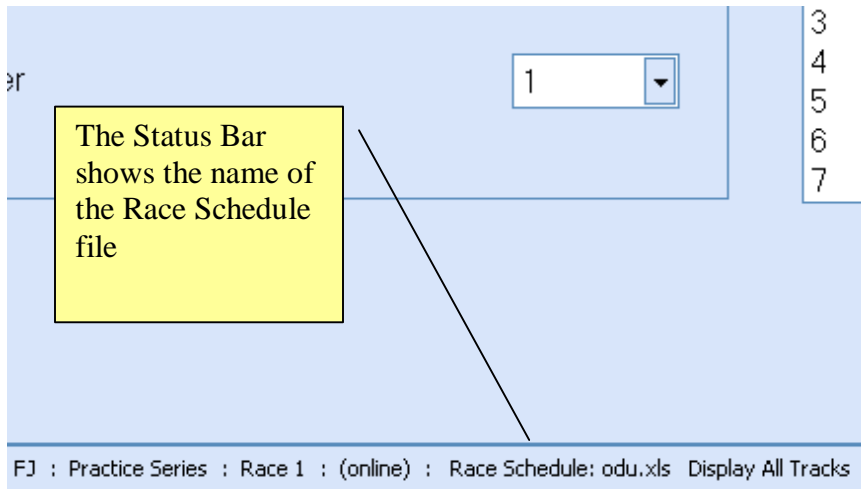


Click the Race Schedule Button and select a schedule. The schedule is displayed for verification but cannot be edited within the publisher. The schedule file is checked for validity when it is loaded and error messages will be displayed if any problem is found.

A Sample Race Schedule

Race	ESTStartTime	StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2	RaceName
1	12/30/1899 3:36...	2/9/2008 2:36 PM	2/9/2008 2:48 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
2	12/30/1899 3:40...	2/9/2008 2:40 PM	2/9/2008 2:52 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
3	12/30/1899 3:45...	2/9/2008 2:45 PM	2/9/2008 2:57 PM	245	ODU	Navy	Blue	Red	ODU vs N
4	12/30/1899 3:59...	2/9/2008 2:59 PM	2/9/2008 3:11 PM	245	St Mary's	ODU	Blue	Red	St Mary's v
5	12/30/1899 4:03...	2/9/2008 3:03 PM	2/9/2008 3:15 PM	245	Georgetown	Navy	Blue	Red	Georgetown
6	12/30/1899 4:06...	2/9/2008 3:06 PM	2/9/2008 3:18 PM	245	St Mary's	ODU	Blue	Red	St Mary's v
7	12/30/1899 4:20...	2/9/2008 3:20 PM	2/9/2008 3:32 PM	245	ODU	Georgetown	Blue	Red	ODU vs G
8	12/30/1899 4:24...	2/9/2008 3:24 PM	2/9/2008 3:36 PM	245	St Mary's	Navy	Blue	Red	St Mary's v
9	12/30/1899 4:27...	2/9/2008 3:27 PM	2/9/2008 3:39 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
10	12/30/1899 4:40...	2/9/2008 3:40 PM	2/9/2008 3:52 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
11	12/30/1899 4:43...	2/9/2008 3:43 PM	2/9/2008 3:55 PM	245	St Mary's	Navy	Blue	Red	St Mary's v
12	12/30/1899 4:47...	2/9/2008 3:47 PM	2/9/2008 3:59 PM	245	ODU	ODU	Blue	Red	ODU vs O
13	12/30/1899 4:57...	2/9/2008 3:57 PM	2/9/2008 4:09 PM	245	Georgetown	ODU	Blue	Red	Georgetown
14	12/30/1899 5:01...	2/9/2008 4:01 PM	2/9/2008 4:13 PM	245	ODU	Navy	Blue	Red	ODU vs N
15	12/30/1899 5:04...	2/9/2008 4:04 PM	2/9/2008 4:16 PM	245	St Mary's	St Mary's	Blue	Red	St Mary's v
16	12/30/1899 5:15...	2/9/2008 4:15 PM	2/9/2008 4:27 PM	245	Georgetown	St Mary's	Blue	Red	Georgetown
17	12/30/1899 5:19...	2/9/2008 4:19 PM	2/9/2008 4:31 PM	245	ODU	St Mary's	Blue	Red	ODU vs St
18	12/30/1899 5:22...	2/9/2008 4:22 PM	2/9/2008 4:34 PM	245	Navy	ODU	Blue	Red	Navy vs O

The Race Schedule allows a new schedule to be opened or an exiting schedule cleared out.



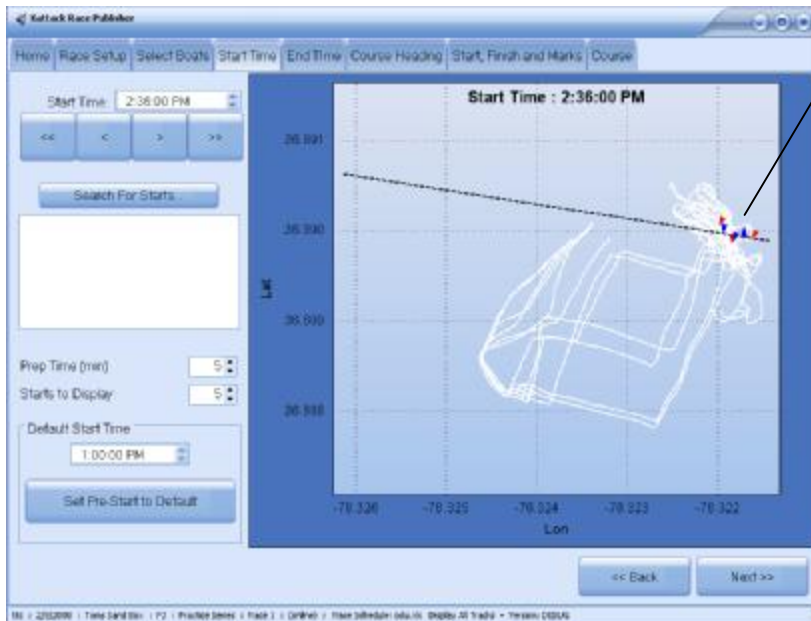


Select Boats Page

When using a schedule, the Select Boats page is skipped and the publisher jumps ahead to the start time window

Start Time Page

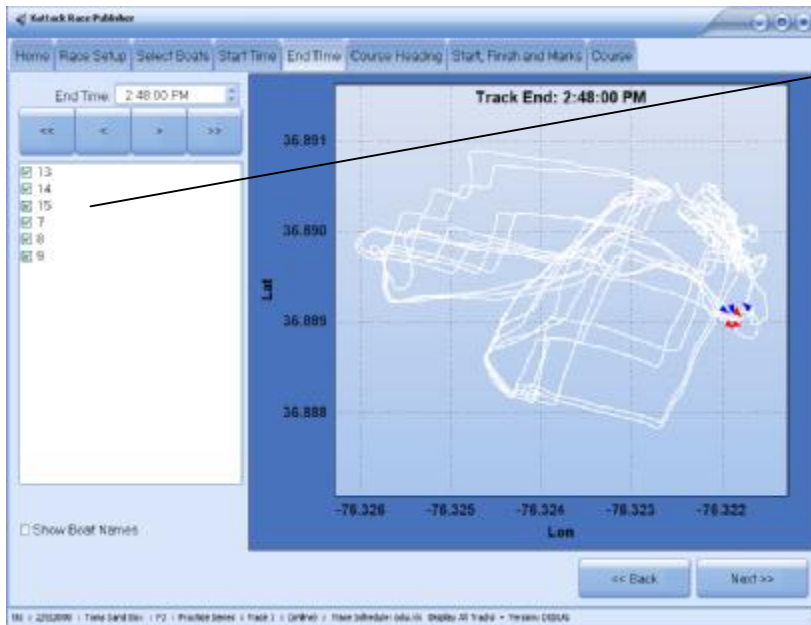
StartTime	EndTime	CourseHeading	Team1	Team2	Color1	Color2
2/9/2008 2:36 PM	2/9/2008 2:48 PM	245	Georgetown	St Mary's	Blue	Red



Start time and boat colors are copied from the schedule

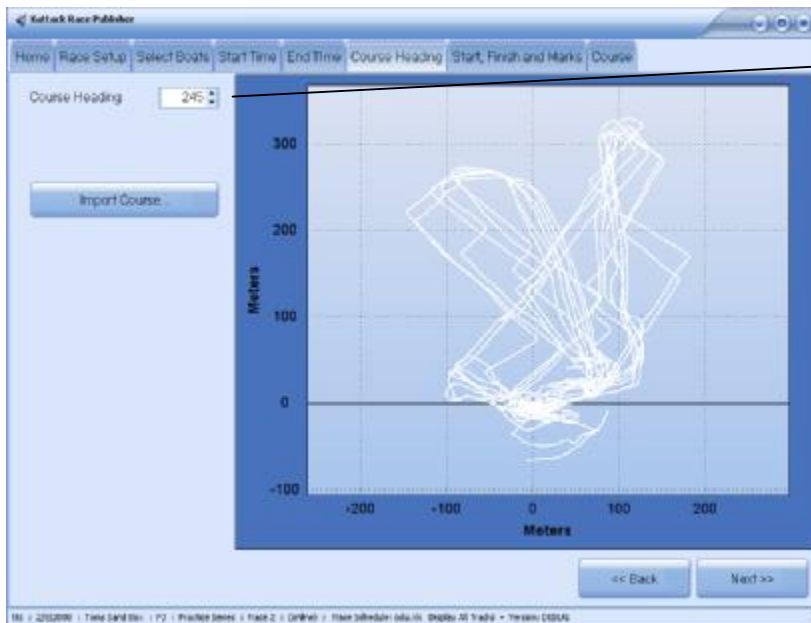


End Time Page



Selected Boats are copied from the schedule

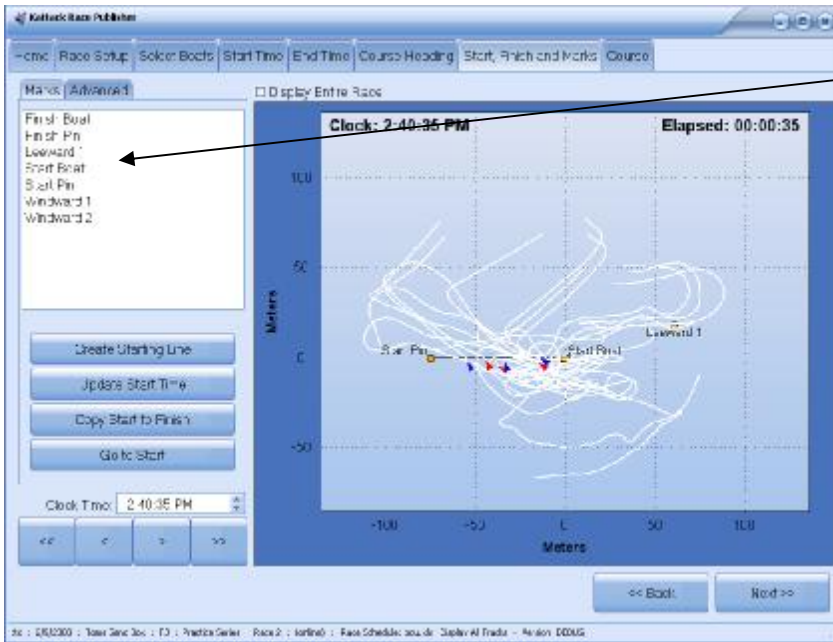
Course Heading Page



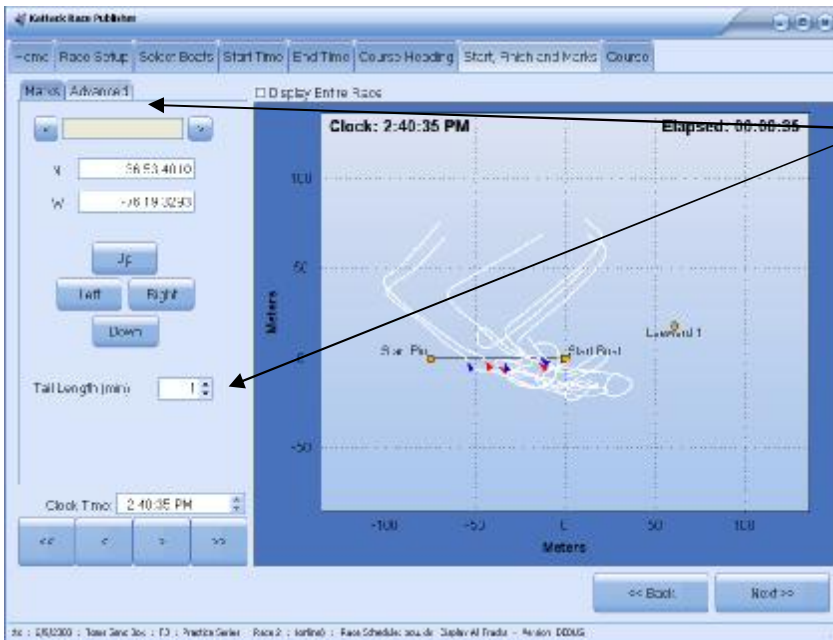
Course heading is copied from the schedule



Marks Page

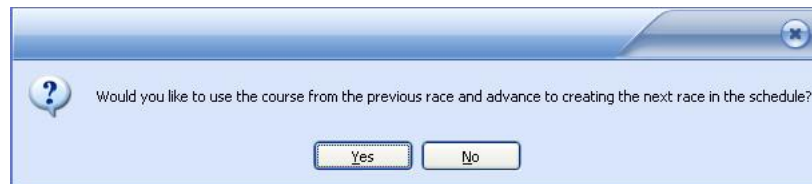


Marks and course are copied from the previous race



Tail length can be changed under the "Advanced" tab to make the start easier to see.

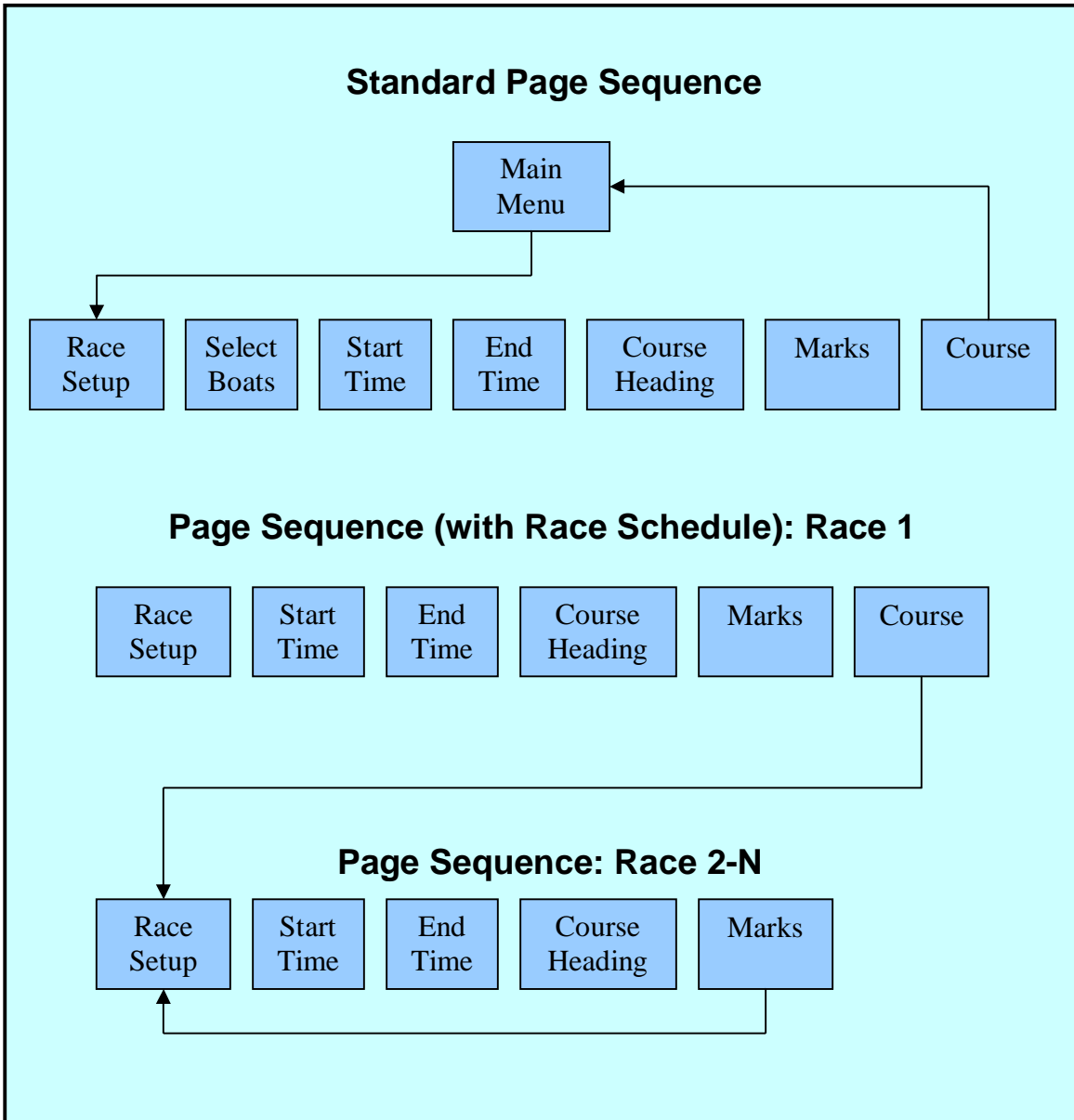
After the marks page is complete, the user has the option to skip the course page and create the next race.





Page Sequence

The sequence of steps for creating races is optimized when using a Race Schedule. For the first race, the only changes are that the Select Boats page is skipped and that after the course page is complete the publisher skips directly back to the Race Setup page. For Races 2-N, the marks and course are copied from the previous race. In addition, after the Marks page is complete, the publisher provides the option to skip the Course page and go directly to the Race Setup page for the next race.





Sample Excel Race Schedule

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Race	Starttime	Endtime	Composheading	Team1	Team2	Color1	Color2	Comment	Team1Boat	Team2Boat	Team1Boat	Team2Boat	Team1Boat
2	1	11:00:00 AM	11:10:00 AM	175	Georgetown	Brown	Red	Yellow	Georgetown vs Brown	1	2	3	4	5
3	2	11:00:00 AM	11:10:00 AM	175	CGA	CGA vs Corn Coll	Green	Black	CGA vs Corn Coll	7	8	9	10	11
4	3	11:00:00 AM	11:10:00 AM	175	Dartmouth	Dartmouth vs Harvard	Blue	Blue	Dartmouth vs Harvard	13	14	15	16	17
5	4	11:09:00 AM	11:19:00 AM	175	NY Maritime	NY Maritime	Orange	Lightgreen	NY Maritime	19	20	21	22	23
6	5	11:17:00 AM	11:27:00 AM	175	RPWU	RPWU vs NY Maritime	Red	Yellow	RPWU vs NY Maritime	7	8	9	10	11
7	6	11:15:00 AM	11:25:00 AM	175	MIT	MIT vs Yale	Green	Blue	MIT vs Yale	13	14	15	16	17
8	7	11:18:00 AM	11:28:00 AM	175	Georgetown	Georgetown vs CGA	Orange	Lightgreen	Georgetown vs CGA	19	20	21	22	23
9	8	11:21:00 AM	11:31:00 AM	175	Corn Coll	Corn Coll vs Brown	Green	Blue	Corn Coll vs Brown	7	8	9	10	11
10	9	11:24:00 AM	11:34:00 AM	175	Dartmouth	Dartmouth vs RPWU	Red	Yellow	Dartmouth vs RPWU	13	14	15	16	17
11	10	11:27:00 AM	11:37:00 AM	175	Harvard	Harvard vs NY Maritime	Blue	Blue	Harvard vs NY Maritime	19	20	21	22	23
12	11	11:30:00 AM	11:40:00 AM	175	RPWU	RPWU vs MIT	Green	Blue	RPWU vs MIT	7	8	9	10	11
13	12	11:33:00 AM	11:43:00 AM	175	St Mary's	St Mary's vs Yale	Orange	Lightgreen	St Mary's vs Yale	13	14	15	16	17
14	13	11:36:00 AM	11:46:00 AM	175	Georgetown	Georgetown vs Georgetown	Red	Yellow	Georgetown vs Georgetown	19	20	21	22	23
15	14	11:39:00 AM	11:49:00 AM	175	Dartmouth	Dartmouth vs Brown	Green	Blue	Dartmouth vs Brown	7	8	9	10	11
16	15	11:42:00 AM	11:52:00 AM	175	CGA	CGA vs Harvard	Orange	Lightgreen	CGA vs Harvard	13	14	15	16	17
17	16	11:45:00 AM	11:55:00 AM	175	St Mary's	St Mary's vs RPWU	Red	Yellow	St Mary's vs RPWU	19	20	21	22	23
18	17	11:48:00 AM	11:58:00 AM	175	NY Maritime	NY Maritime vs MIT	Green	Blue	NY Maritime vs MIT	7	8	9	10	11
19	18	11:51:00 AM	12:01:00 PM	175	Yale	Yale vs Georgetown	Orange	Lightgreen	Yale vs Georgetown	13	14	15	16	17
20	19	11:54:00 AM	12:04:00 PM	175	Dartmouth	Dartmouth vs Georgetown	Red	Yellow	Dartmouth vs Georgetown	19	20	21	22	23
21	20	11:57:00 AM	12:07:00 PM	175	Brown	Brown vs Harvard	Blue	Blue	Brown vs Harvard	7	8	9	10	11
22	21	12:00:00 PM	12:10:00 PM	175	CGA	CGA vs RPWU	Red	Yellow	CGA vs RPWU	13	14	15	16	17
23	22	12:00:00 PM	12:10:00 PM	175	Corn Coll	Corn Coll vs NY Maritime	Green	Blue	Corn Coll vs NY Maritime	7	8	9	10	11
24	23	12:06:00 PM	12:16:00 PM	175	RPWU	RPWU vs Dartmouth	Orange	Lightgreen	RPWU vs Dartmouth	13	14	15	16	17
25	24	12:09:00 PM	12:19:00 PM	175	Harvard	Harvard vs St Mary's	Red	Yellow	Harvard vs St Mary's	19	20	21	22	23
26	25	12:12:00 PM	12:22:00 PM	175	NY Maritime	NY Maritime vs MIT	Green	Blue	NY Maritime vs MIT	7	8	9	10	11
27	26	12:15:00 PM	12:25:00 PM	175	Yale	Yale vs Georgetown	Orange	Lightgreen	Yale vs Georgetown	13	14	15	16	17
28	27	12:18:00 PM	12:28:00 PM	175	Brown	Brown vs CGA	Blue	Blue	Brown vs CGA	7	8	9	10	11
29	28	12:21:00 PM	12:31:00 PM	175	Dartmouth	Dartmouth vs Corn Coll	Red	Yellow	Dartmouth vs Corn Coll	13	14	15	16	17
30	29	12:24:00 PM	12:34:00 PM	175	Harvard	Harvard vs RPWU	Green	Blue	Harvard vs RPWU	19	20	21	22	23
31	30	12:27:00 PM	12:37:00 PM	175	NY Maritime	NY Maritime vs NY Maritime	Red	Yellow	NY Maritime vs NY Maritime	7	8	9	10	11
32	31	12:30:00 PM	12:40:00 PM	175	MIT	MIT vs St Mary's	Orange	Lightgreen	MIT vs St Mary's	13	14	15	16	17
33	32	12:33:00 PM	12:43:00 PM	175	Georgetown	Georgetown vs Yale	Green	Blue	Georgetown vs Yale	19	20	21	22	23
34	33	12:36:00 PM	12:46:00 PM	175	CGA	CGA vs Dartmouth	Red	Yellow	CGA vs Dartmouth	7	8	9	10	11
35	34	12:39:00 PM	12:49:00 PM	175	Corn Coll	Corn Coll vs Harvard	Orange	Lightgreen	Corn Coll vs Harvard	13	14	15	16	17
36	35	12:42:00 PM	12:52:00 PM	175	St Mary's	St Mary's vs RPWU	Blue	Blue	St Mary's vs RPWU	19	20	21	22	23
37	36	12:45:00 PM	12:55:00 PM	175	RPWU	RPWU vs Georgetown	Red	Yellow	RPWU vs Georgetown	7	8	9	10	11
38	37	12:48:00 PM	12:58:00 PM	175	Brown	Brown vs MIT	Green	Blue	Brown vs MIT	13	14	15	16	17
39	38	12:51:00 PM	1:01:00 PM	175	Georgetown	Georgetown vs Harvard	Orange	Lightgreen	Georgetown vs Harvard	19	20	21	22	23
40	39	12:54:00 PM	1:04:00 PM	175	Yale	Yale vs Yale	Red	Yellow	Yale vs Yale	7	8	9	10	11
41	40	12:57:00 PM	1:07:00 PM	175	Corn Coll	Corn Coll vs RPWU	Green	Blue	Corn Coll vs RPWU	13	14	15	16	17
42	41	1:00:00 PM	1:10:00 PM	175	Dartmouth	Dartmouth vs NY Maritime	Red	Yellow	Dartmouth vs NY Maritime	19	20	21	22	23
43	42	1:00:00 PM	1:10:00 PM	175	CGA	CGA vs Dartmouth	Orange	Lightgreen	CGA vs Dartmouth	7	8	9	10	11
44	43	1:00:00 PM	1:10:00 PM	175	Dartmouth	Dartmouth vs St Mary's	Green	Blue	Dartmouth vs St Mary's	13	14	15	16	17
45	44	1:00:00 PM	1:10:00 PM	175	Harvard	Harvard vs MIT	Red	Yellow	Harvard vs MIT	19	20	21	22	23
46	45	1:00:00 PM	1:10:00 PM	175	Georgetown	Georgetown vs RPWU	Blue	Blue	Georgetown vs RPWU	7	8	9	10	11
47	46	1:18:00 PM	1:28:00 PM	175	Yale	Yale vs Corn Coll	Orange	Lightgreen	Yale vs Corn Coll	13	14	15	16	17
48	47	1:18:00 PM	1:28:00 PM	175	Dartmouth	Dartmouth vs NY Maritime	Red	Yellow	Dartmouth vs NY Maritime	19	20	21	22	23
49	48	1:21:00 PM	1:31:00 PM	175	St Mary's	St Mary's vs CGA	Green	Blue	St Mary's vs CGA	7	8	9	10	11
50	49	1:24:00 PM	1:34:00 PM	175	RPWU	RPWU vs Harvard	Orange	Lightgreen	RPWU vs Harvard	13	14	15	16	17
51	50	1:27:00 PM	1:37:00 PM	175	Yale	Yale vs Georgetown	Red	Yellow	Yale vs Georgetown	19	20	21	22	23
52	51	1:30:00 PM	1:40:00 PM	175	MIT	MIT vs Corn Coll	Green	Blue	MIT vs Corn Coll	7	8	9	10	11
53	52	1:33:00 PM	1:43:00 PM	175	CGA	CGA vs Dartmouth	Orange	Lightgreen	CGA vs Dartmouth	13	14	15	16	17
54	53	1:36:00 PM	1:46:00 PM	175	RPWU	RPWU vs St Mary's	Red	Yellow	RPWU vs St Mary's	19	20	21	22	23
55	54	1:39:00 PM	1:49:00 PM	175	NY Maritime	NY Maritime vs Georgetown	Blue	Blue	NY Maritime vs Georgetown	7	8	9	10	11
56	55	1:42:00 PM	1:52:00 PM	175	Brown	Brown vs St Mary's	Green	Blue	Brown vs St Mary's	13	14	15	16	17
57	56	1:45:00 PM	1:55:00 PM	175	Harvard	Harvard vs Yale	Orange	Lightgreen	Harvard vs Yale	19	20	21	22	23
58	57	1:48:00 PM	1:58:00 PM	175	MIT	MIT vs Dartmouth	Red	Yellow	MIT vs Dartmouth	7	8	9	10	11