# HERRINGTON HARBOUR SAILING ASSOCIATION



### HHSA COURSE BOOK 2018

Approved by the Board of Directors, Herrington Harbour Sailing Association, April 2018



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#### 2018 HHSA Course Book



## Note:

The course diagrams and thumbnail summaries are provided for convenience. If there are discrepancies between the course diagrams, alpha-numeric course descriptions (e.g.,  $83A(P)\rightarrow A(P)$ ), the Text Course Summary, or the Thumbnail Course Summary, then the alpha-numeric course descriptions associated with each course diagram shall take precedence. Furthermore, if there is a discrepancy between the Course Book and the event Sailing Instructions, the Sailing Instructions shall take precedence.

#### 2018 HHSA Course Book



### **Text Course Summary**

Course A - North Strong Wind Long Course: (7.2 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  83A(S)  $\rightarrow$  81A(S)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Short Course: (5.3 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  81A(S)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Course B- North Light Wind Long Course: (4.0 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  C(S)  $\rightarrow$ G1(S)  $\rightarrow$  A(P) Short Course: (3.1 nm)  $Start \rightarrow B(S) \rightarrow G1(S) \rightarrow A(P)$ Course C - Northeast Strong Wind Long Course: (7.7 nm) Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P) Short Course: (4.6 nm) Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P) Course D - Northeast Light Wind Long Course: (6.2 nm)  $Start \rightarrow C(P) \rightarrow A(P) \rightarrow C(P) \rightarrow A(P)$ Short Course: (3.1 nm)  $Start \rightarrow C(P) \rightarrow A(P)$ Course E - East Strong Wind Long Course: (8.0 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  $C(P) \rightarrow B(P) \rightarrow A(P)$ Short Course: (5.4 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  83A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Course F - East Light Wind Long Course: (4.0 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Short Course: (3.0 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Course G - Southeast Strong Wind Long Course: (9.1 nm) Start  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  81A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Short Course: (6.6 nm)  $Start \rightarrow 81A(P) \rightarrow G1(P) \rightarrow 81A(P) \rightarrow G1(P) \rightarrow A(P)$ Course H - Southeast Light Wind Long Course: (5.5 nm) Start  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Short Course: (3.2 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

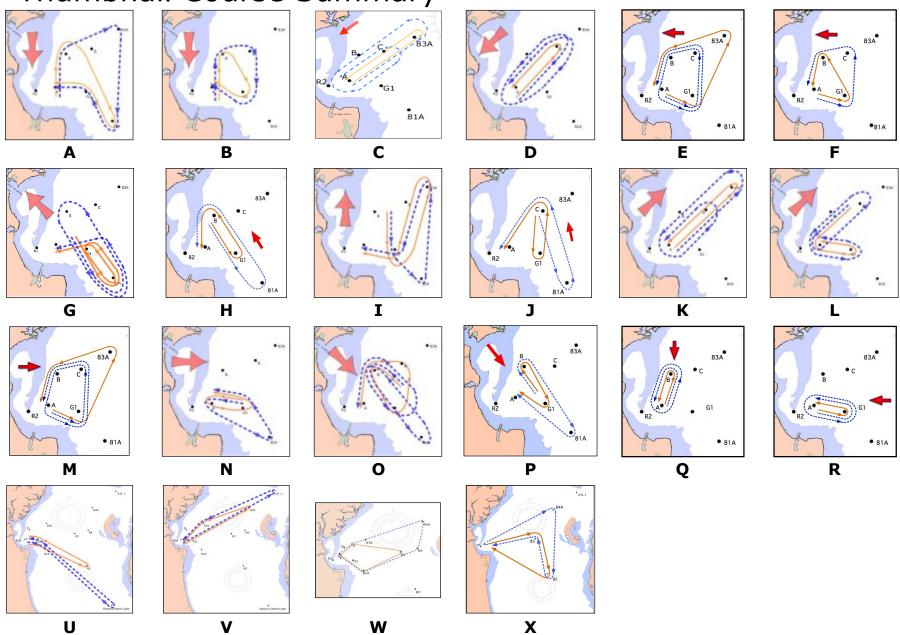
Course I - South Strong Wind Long Course: (7.5 nm)  $Start \rightarrow G1(P) \rightarrow 81A(P) \rightarrow 83A(P) \rightarrow G1(S) \rightarrow A(P)$ Short Course: (5.7 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  83A(P)  $\rightarrow$  G1(S)  $\rightarrow$  A(P) Course J - South Light Wind Long Course: (5.5 nm) Start  $\rightarrow$  81A(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P) Short Course: (3.2 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P) Course K - Southwest Strong Wind Long Course: (7.7 nm) Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P) Short Course: (4.6 nm) Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P) Course L - Southwest Light Wind Long Course: (6.6 nm) Start  $\rightarrow$  A(P)  $\rightarrow$  C(P) $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Short Course: (3.4 nm) Start  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Course M - West Strong Wind Long Course: (8.0 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  $C(P) \rightarrow B(P) \rightarrow A(P)$ Short Course: (5.4 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  83A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Course N - West Light Wind Long Course: (4.9nm) Start  $\rightarrow$  A(P)  $\rightarrow$  81A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Short Course: (2.8 nm)  $Start \rightarrow A(P) \rightarrow G1(P) \rightarrow A(P)$ Course O - Northwest Strong Wind Long Course: (7.3 nm) Start  $\rightarrow$ B(P)  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  G1(P)  $\rightarrow$  B(P) $\rightarrow$  A(P) Short Course: (5.2 nm) Start  $\rightarrow$  B(P)  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P) Course P - Northwest Light Wind Long Course: (5.6 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  81A(S)  $\rightarrow$  A(P) Short Course: (3.3 nm)  $Start \rightarrow B(S) \rightarrow G1(S) \rightarrow A(P)$ 

Course Q - Very Light, Variable Wind Long Course: Start  $\rightarrow$  B(P)  $\rightarrow$  A(P) $\rightarrow$  B(P)  $\rightarrow$  A(P) Short Course: Start  $\rightarrow$  B(P)  $\rightarrow$  A(P) Course R - Variable Very Light Wind Long Course: Start  $\rightarrow$  G1(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Short Course Start  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Course U - Sharps Island Race Lona Course  $Start \rightarrow 81A(S) \rightarrow Sharps Light (P) \rightarrow G1(P) \rightarrow A(P)$ **Short Course** Start  $\rightarrow$  81A(S)  $\rightarrow$  82 (P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P) Course V - Bloody Point Race Long Course Start  $\rightarrow$  E.B.1(P)  $\rightarrow$  83A(P)  $\rightarrow$  A(P) Short Course Start  $\rightarrow$  84A(P)  $\rightarrow$  83A(P)  $\rightarrow$  A(P) Course W - Poplar Island Race Lona Course Start  $\rightarrow$  81A(P)  $\rightarrow$ 84(P)  $\rightarrow$  84A(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P) **Short Course** Start  $\rightarrow$  81A(P)  $\rightarrow$  83(P)  $\rightarrow$  C (P) $\rightarrow$  A(P) Course X – Great Bay Race Long Course Start  $\rightarrow$  84A(S)  $\rightarrow$  82(S)  $\rightarrow$  83(P)  $\rightarrow$  A(P) Short Course Start  $\rightarrow$  83(S)  $\rightarrow$  82(S)  $\rightarrow$  A(P)



#### 2018 HHSA Course Book

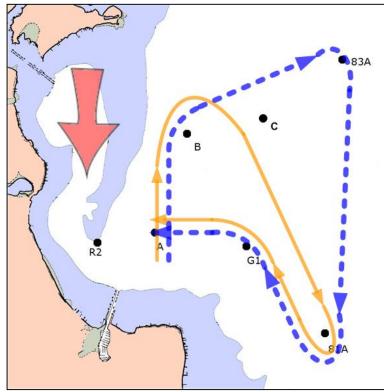
# Thumbnail Course Summary





### Course A

North Strong Wind



Long Course: (7.2 nm)

 $Start \rightarrow B(S) \rightarrow 83A(S) \rightarrow 81A(S) \rightarrow G1(P) \rightarrow A(P)$ 

**Short Course: (5.3 nm)** 

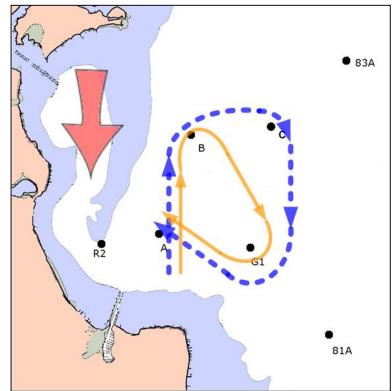
Start  $\rightarrow$  B(S)  $\rightarrow$  81A(S)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

#### **Notes:**

- Set starting line with inflatable mark directly downwind from "B" approximately 0.9 nm.
- Courses can be shortened to "G1".
- Reset finish line square to final leg of course.

### Course B

North Light Wind



Long Course: (4.0 nm)

Start  $\rightarrow$  B(S)  $\rightarrow$  C(S)  $\rightarrow$ G1(S)  $\rightarrow$  A(P)

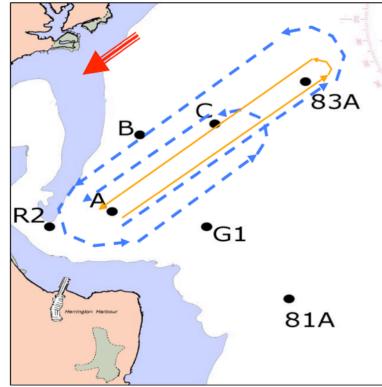
Short Course: (3.1 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  G1(S)  $\rightarrow$  A(P)

- Set starting line with inflatable mark directly downwind from "B" approximately 0.9 nm.
- Reset finish line square to final leg of course.



### Course C

Northeast Strong Wind



Long Course: (7.7 nm)

Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P)

**Short Course: (4.6 nm)** 

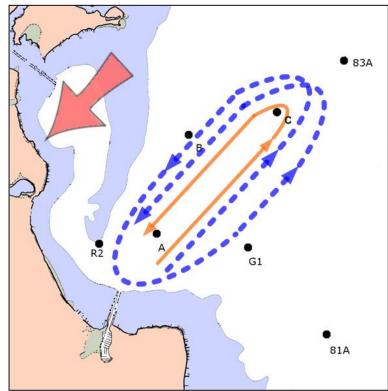
Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P)

#### **Notes:**

- Set starting line with inflatable mark directly downwind from "83A" in the vicinity of "A".
- Plan on moving to set finish line at "A" after the starts.

### Course D

Northeast Light Wind



Long Course: (6.2 nm)

 $Start \rightarrow C(P) \rightarrow A(P) \rightarrow C(P) \rightarrow A(P)$ 

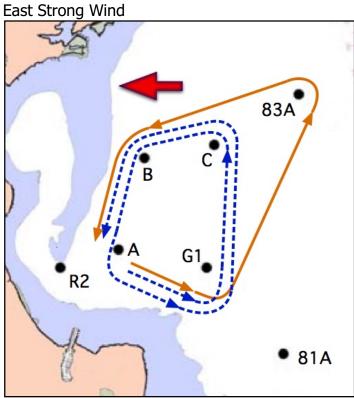
**Short Course: (3.1 nm)** 

 $Start \rightarrow C(P) \rightarrow A(P)$ 

- Use inflatable mark for starting line directly downwind from "C"; leave sufficient room for maneuvering between start line and Long Bar.
- Plan on moving to set finish line at "A" after the starts.



### Course E



Long Course: (8.0 nm)

Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

Short Course: (5.4 nm)

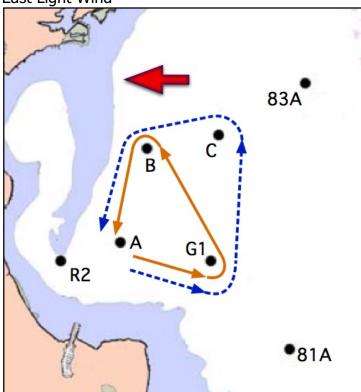
 $Start \rightarrow G1(P) \rightarrow 83A(P) \rightarrow B(P) \rightarrow A(P)$ 

#### **Notes:**

- Use inflatable mark for starting line directly downwind from "G1" in the vicinity of "A".
- Reset finish line square to final leg of course.

### Course F

East Light Wind



Long Course: (4.0 nm)

 $Start \rightarrow G1(P) \rightarrow C(P) \rightarrow B(P) \rightarrow A(P)$ 

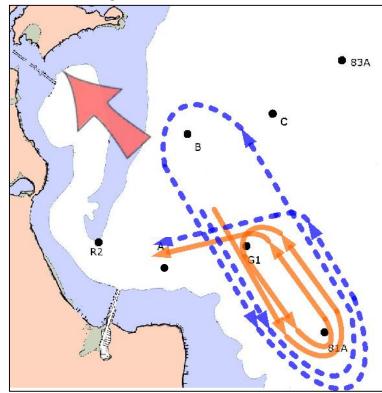
Short Course: (3.0 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

- Use inflatable mark for starting line directly downwind from "G1" in the vicinity of "A".
- Reset finish line square to final leg of course.



### Course G

Southeast Strong Wind



Long Course: (9.1 nm)

Start  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  81A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

**Short Course: (6.6 nm)** 

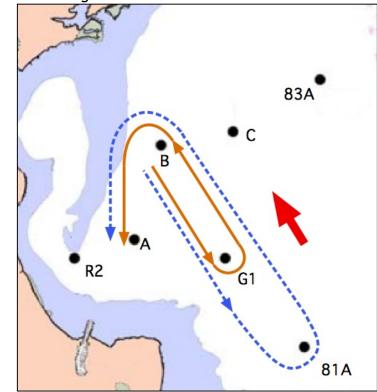
Start  $\rightarrow$  81A(P)  $\rightarrow$  G1(P)  $\rightarrow$  81A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

#### **Notes:**

- Use inflatable mark for starting line directly downwind from "81A" in the vicinity of "G1".
- Starting line may be moved upwind to reduce the length of the windward leg as conditions warrant.
- Courses may be shortened to "G1".

### Course H

Southeast Light Wind



Long Course: (5.5 nm)

Start  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

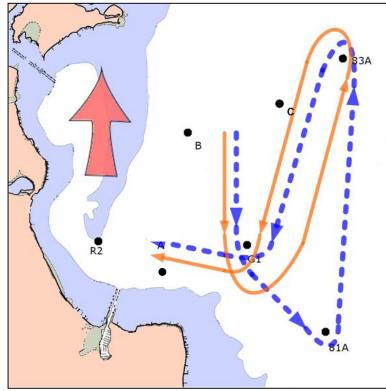
Short Course: (3.2 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

- Set starting line in the vicinity of "B", downwind of the first mark.
- Set line far enough on course side of "B" to provide deeper draft boats room to maneuver.
- Courses may be shortened to "B".



### Course I

South Strong Wind



Long Course: (7.5 nm)

 $Start \rightarrow G1(P) \rightarrow 81A(P) \rightarrow 83A(P) \rightarrow G1(S) \rightarrow A(P)$ 

**Short Course: (5.7 nm)** 

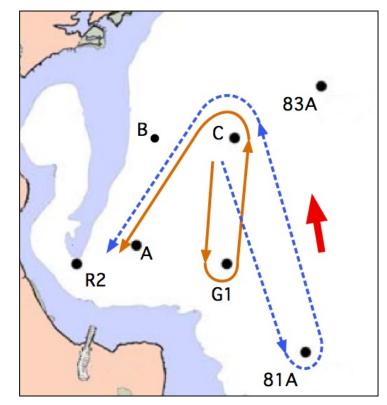
 $Start \rightarrow G1(P) \rightarrow 83A(P) \rightarrow G1(S) \rightarrow A(P)$ 

#### **Notes:**

- Set tetrahedron about 1 nm downwind from "G1".
- Both courses can be shortened to "G1".
- Alternatively, use Course A w/ downwind start.

### Course J

South Light Wind



Long Course: (5.5 nm)

 $Start \rightarrow 81A(P) \rightarrow C(P) \rightarrow A(P)$ 

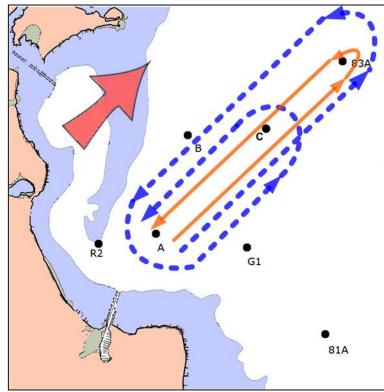
Short Course: (3.8 nm) Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  A(P)

- Set tetrahedron in vicinity of "C" downwind from "81A".
- Select a long enough course to allow repositioning for finish.



### Course K

Southwest Strong Wind



Long Course: (7.7 nm)

 $Start \rightarrow 83A(P) \rightarrow A(P) \rightarrow C(P) \rightarrow A(P)$ 

Short Course: (4.6 nm)

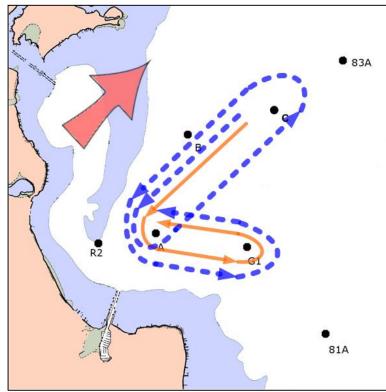
Start  $\rightarrow$  83A(P)  $\rightarrow$  A(P)

#### **Notes:**

- Downwind start!
- Set starting line with inflatable mark directly <u>upwind</u> from "83A" in the vicinity of "A".

### Course L

Southwest Light Wind



Long Course: (6.6 nm)

Start  $\rightarrow$  A(P)  $\rightarrow$  C(P) $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

Short Course: (3.4 nm) Start  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

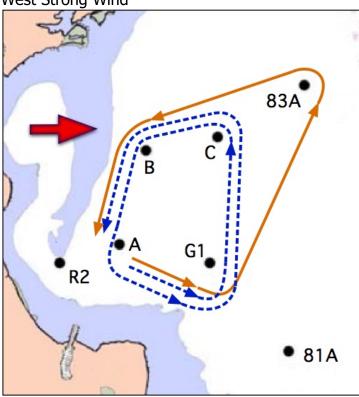
#### **Notes:**

• Set starting line with inflatable mark directly downwind from "A" in the vicinity of "C".



### Course M

West Strong Wind



Long Course: (8.0 nm)

Start  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

Short Course: (5.4 nm)

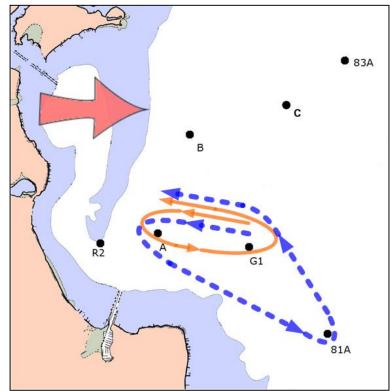
Start  $\rightarrow$  G1(P)  $\rightarrow$  83A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

#### **Notes:**

- Downwind Start!
- Set starting line with inflatable mark directly upwind from "G1", in the vicinity of "A".
- Both courses may be shortened to "B".

### Course N

West Light Wind



Long Course: (4.9nm)

 $\mathsf{Start} \to \mathsf{A}(\mathsf{P}) \to \mathsf{81A}(\mathsf{P}) \to \mathsf{G1}(\mathsf{P}) \to \mathsf{A}(\mathsf{P})$ 

Short Course: (2.8 nm) Start $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

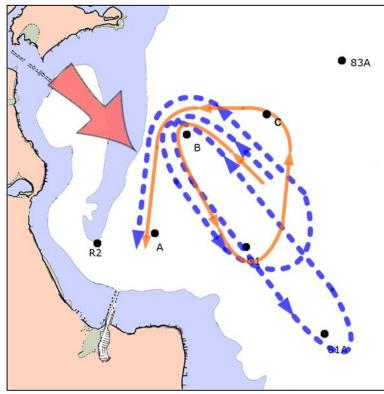
#### **Notes:**

• Set starting line with inflatable mark directly downwind from "A".



### Course O

Northwest Strong Wind



Long Course: (7.3 nm)

Start  $\rightarrow$ B(P)  $\rightarrow$  81A(P)  $\rightarrow$  B(P)  $\rightarrow$  G1(P)  $\rightarrow$  B(P) $\rightarrow$  A(P)

**Short Course: (5.2 nm)** 

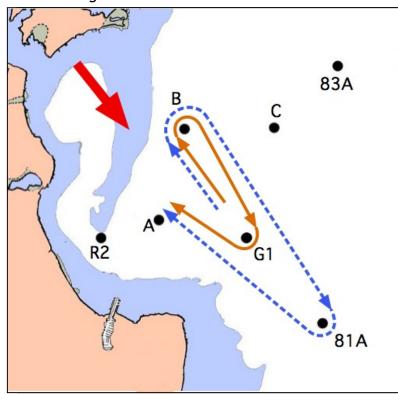
Start  $\rightarrow$  B(P)  $\rightarrow$  G1(P)  $\rightarrow$  C(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

#### **Notes:**

- Set starting line with inflatable mark directly downwind from "B", north and slightly east of "G1".
- Both courses may be shortened to "B".

### Course P

Northwest Light Wind



Long Course: (5.6 nm)

 $Start \rightarrow B(S) \rightarrow 81A(S) \rightarrow A(P)$ 

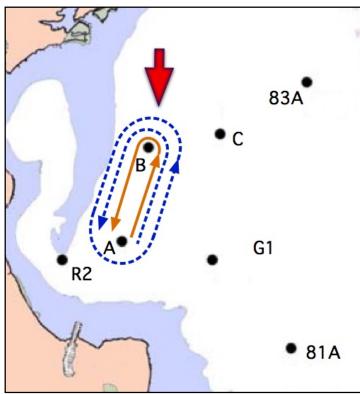
Short Course: (3.3 nm) Start  $\rightarrow$  B(S)  $\rightarrow$  G1(S)  $\rightarrow$  A(P)

- Set starting line with inflatable mark directly downwind from "B", north and slightly west of "G1".
- Either course can be shortened, but <u>only</u> if both fleets use the same course.



### Course Q

Very Light, Variable Wind



#### Long Course:

Start  $\rightarrow$  B(P)  $\rightarrow$  A(P)  $\rightarrow$  B(P)  $\rightarrow$  A(P)

#### **Short Course:**

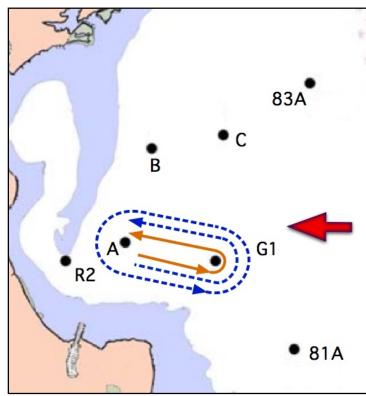
Start  $\rightarrow$  B(P)  $\rightarrow$  A(P)

#### **Notes:**

- Set starting line close square to the median wind not more that 2/3<sup>rd</sup> of the distance from "A" to "B".
- In extremely light conditions, consider postponing ("Answering Pennant" flag) until conditions improve.

### Course R

Variable Very Light Wind



#### **Long Course:**

Start  $\rightarrow$  G1(P)  $\rightarrow$  A(P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

#### **Short Course:**

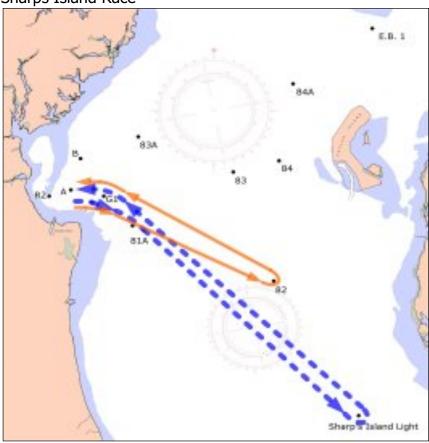
Start  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

- Set starting line close square to the median wind not more that 2/3<sup>rd</sup> of the distance from "A" to "G1".
- In extremely light conditions, consider postponing ("Answering Pennant" flag) until conditions improve.



### Course U

Sharps Island Race



Long Course: (22.5nm)

Start  $\rightarrow$  81A(S)  $\rightarrow$  Sharps' Light (P) $\rightarrow$  G1(P)  $\rightarrow$  A(P)

Short Course: (13.5 nm)

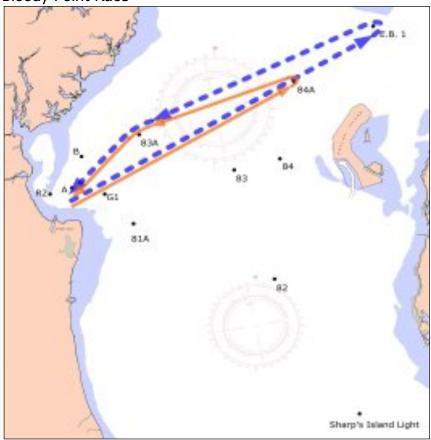
Start  $\rightarrow$  81A (S)  $\rightarrow$  82 (P)  $\rightarrow$  G1(P)  $\rightarrow$  A(P)

- Set starting leg using "A" as pin end and making line perpendicular to first leg.
- If necessary, both courses may be shortened to "G1".



### Course V

Bloody Point Race



Long Course: (20.6 nm)

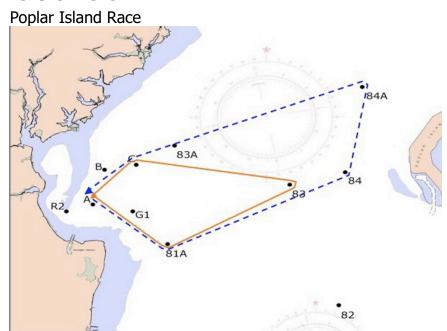
Start  $\rightarrow$  E.B. 1 (P)  $\rightarrow$  83A (P)  $\rightarrow$  A(P)

Short Course: (14.9 nm) Start  $\rightarrow$  84A (P)  $\rightarrow$  83A (P)  $\rightarrow$  A(P)

- Set starting leg using "A" as pin end and making line perpendicular to first leg.
- Courses may both be shortened to "83A".



### Course W



Long Course: (16.2 nm)

 $\mathsf{Start} \to \mathsf{81A(P)} \to \mathsf{84A(P)} \to \mathsf{84A(P)} \to \mathsf{C(P)} \to \mathsf{A(P)}$ 

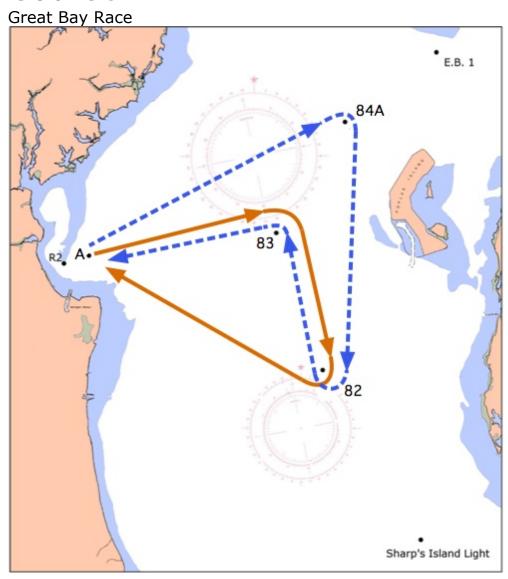
Short Course: (10.5 nm)

Start  $\rightarrow$  81A(P)  $\rightarrow$  83 (P)  $\rightarrow$  C(P)  $\rightarrow$  A(P)

- Set starting leg using "A" as pin end and making line perpendicular to first leg.
- "83A" is not a mark of the course.



### Course X



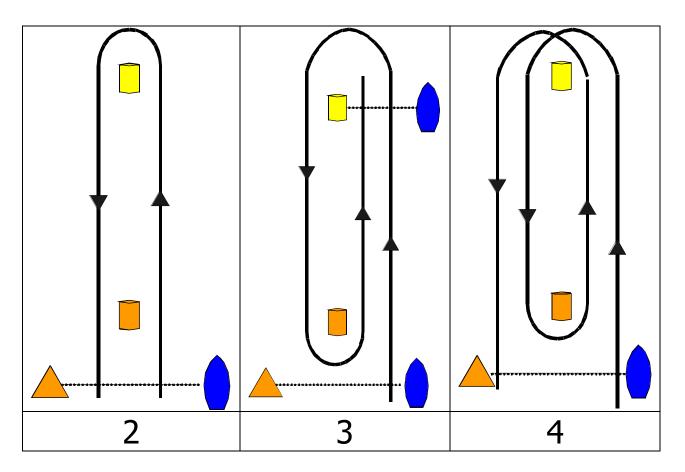
Long Course: (19.43 nm)

Start  $\rightarrow$  84A(S)  $\rightarrow$  82(S)  $\rightarrow$  83(P)  $\rightarrow$  A(P)

Short Course: (13.2 nm) Start  $\rightarrow$  83(S)  $\rightarrow$  82(S)  $\rightarrow$  A(P)



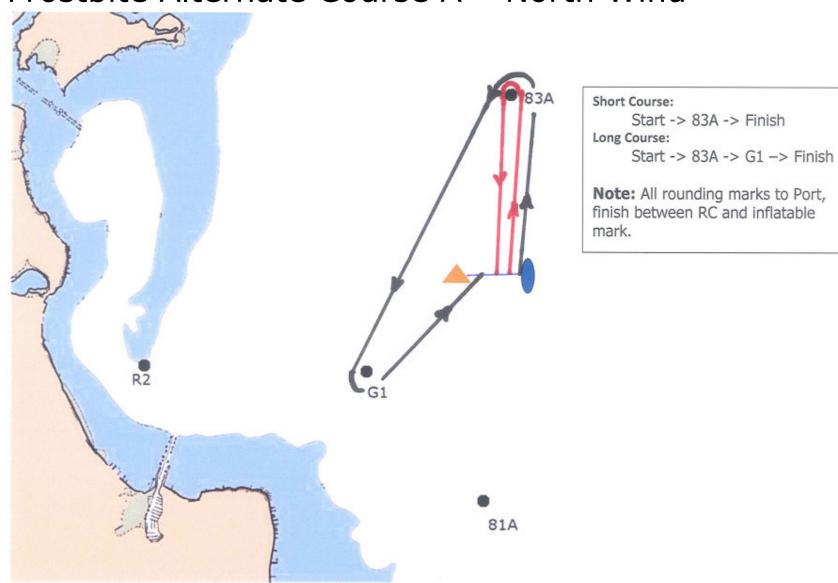
### Windward/Leeward Courses



- Use of a second boat as a mark boat is required for windward/leeward courses.
- Except in extremely light wind conditions, do not set legs shorter than 1/2 nm in length.
- Ideally, use a white board to indicate compass direction and distance to the windward mark on committee boat prior to start.

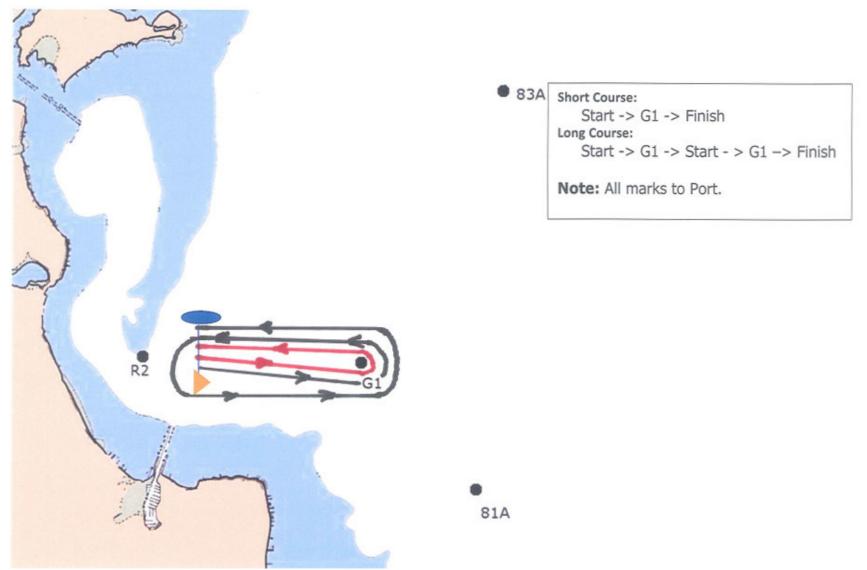


### Frostbite Alternate Course A - North Wind



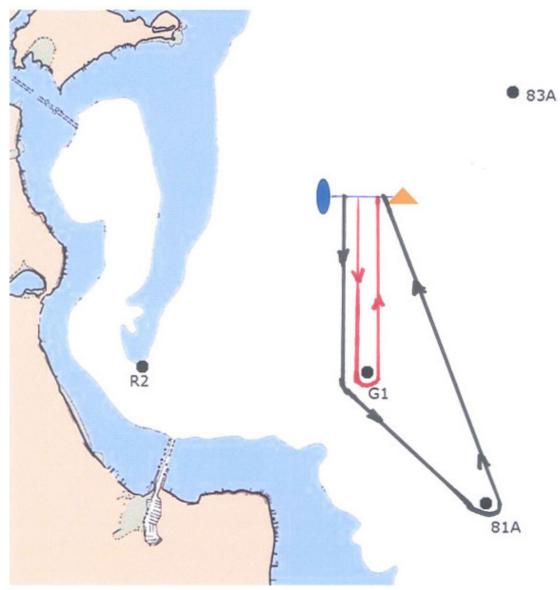


### Frostbite Alternate Course B - East & West Wind



# 20

### Frostbite Alternate Course C - South Wind



Short Course:

Start -> G1 -> Finish Long Course:

Start -> G1 -> 81A -> Finish

**Note:** Finish between RC and inflatable mark. For Long Course pass or round G1 to Port and round 81A to Port.



### Mark Information

Marks designated on signboards by a letter in **red** shall be left to port. Marks designated by a letter in **green** shall be left to starboard. One lap shall be sailed unless the course designation is followed by a number which specifies the number of laps to be sailed.

| Mark <sup>*</sup>      | Latitude (N) | Longitude (W) | HHSA | CBYRA |
|------------------------|--------------|---------------|------|-------|
| Eastern Bay 1 (Green)  | 38° 49.133'  | 076° 22.126'  | L    | L     |
| Herring Bay 2 (Red)    | 38° 44.526'  | 076° 32.698'  | Y    | None  |
| Herring Bay 1 (Green)  | 38° 44.433'  | 076° 30.838'  | W    | None  |
| 79 A (Green)           | 38° 38.654'  | 076° 29.188'  | N    | None  |
| 80 A (Red)             | 38° 39.626'  | 076° 22.987'  | Χ    | None  |
| 81A (Green)            | 38° 43.576'  | 076° 29.939'  | I    | None  |
| 82 (Red)               | 38° 42.070'  | 076° 25.334'  | Т    | None  |
| 83 (Green)             | 38° 45.142'  | 076° 26.642'  | K    | K     |
| 83A (Green)            | 38° 46.134'  | 076° 29.701'  | 0    | None  |
| 84 (Red)               | 38° 45.466'  | 076° 25.111'  | R    | R     |
| 84A (Red)              | 38° 47.600'  | 076° 24.693'  | Q    | Q     |
| 85A (Green)            | 38° 49.954'  | 076° 27.734'  | М    | None  |
| 86 (Red)               | 38° 51.996'  | 076° 23.541'  | Е    | Е     |
| Sharps Island Light    | 38° 38.399'  | 076° 22.544'  | S    | None  |
| West River 1 (Green)   | 38° 51.851'  | 076° 26.999'  | Z    | Z     |
| HHSA A (Yellow)        | 38° 44.647'  | 076° 31.993'  | Α    | None  |
| HHSA B (Yellow)        | 38° 45.45'   | 076° 31.65'   | В    | None  |
| HHSA C (Yellow)        | 38° 45.500   | 76.30.320     | С    | None  |
| HHSA Orange Tetrahedon | Variable     | Variable      | U    | None  |
| HHSA Orange Cylinder   | Variable     | Variable      | G    | None  |
| HHSA Yellow Cylinder   | Variable     | Variable      | Н    | None  |

<sup>\*</sup> Not to be used for navigation.



# Chart of HHSA Marks

