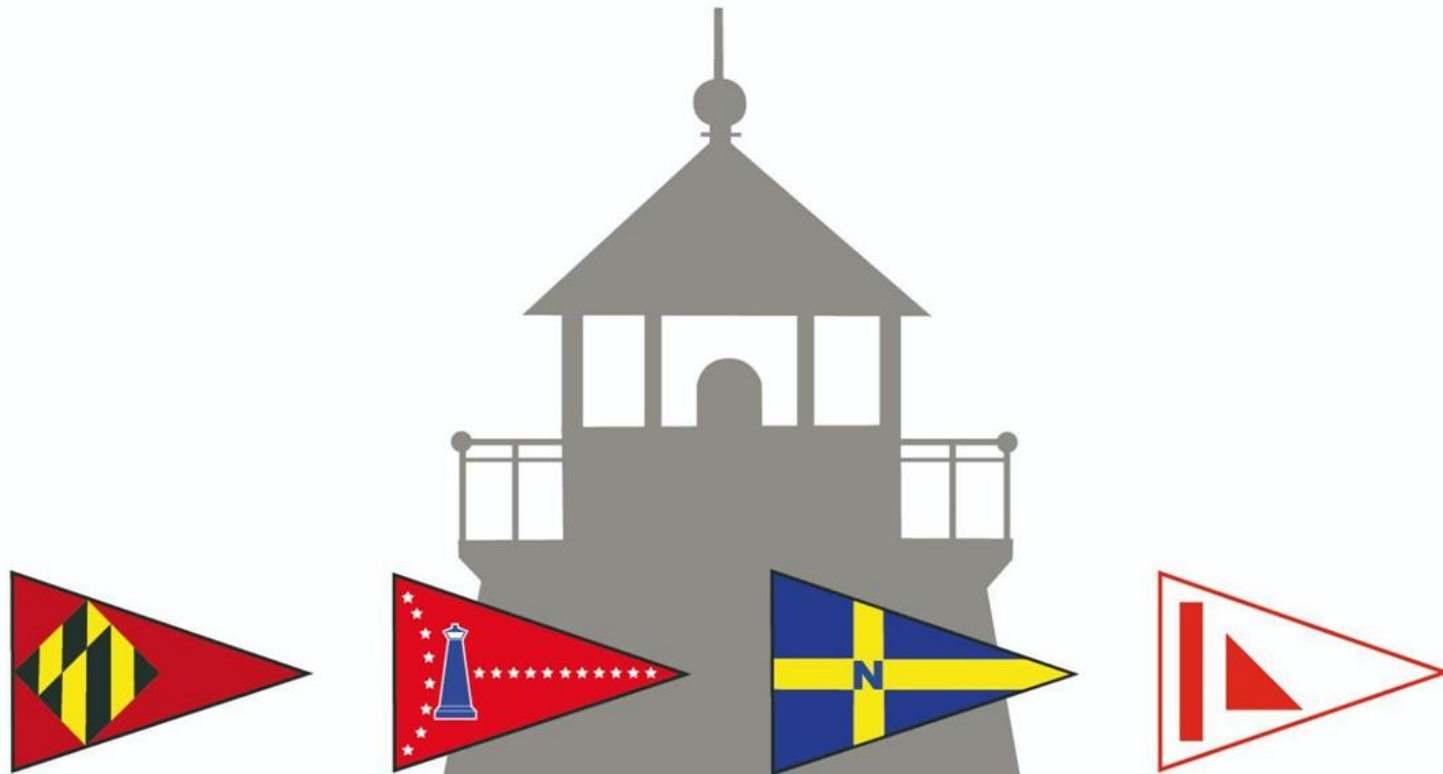




# 2023 Annapolis to Newport Race

Austin Powers and Ridgely Mackenzie



**ANNAPOLIS - NEWPORT**  
**2023**

# Presenters



**Austin Powers**

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One design and Offshore sails  
Annapolis to Newport class win  
Newport to Bermuda class win  
AYC double handed race class win



**Ridgely Mackenzie**

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# Agenda



- Sail Requirements
- Class options
- Evaluating your inventory
- Upwind sails
- Offwind sails and Rigging
- Sail Repair kit



# Sail Requirements



- **3.33.1 A boat shall have a mainsail reefing capable of reducing the luff length by at least 10%.**

# Reefing







# Sail Requirements

- A boat shall carry a trysail, with the boat's sail number displayed on both sides, which can be set independently of the main boom, has an area less than 17.5% of  $E \times P$ , and which is capable of being attached to the mast. Storm sails manufactured after 01/01/2014 shall be constructed from a highly visible material. **A mainsail with a reef of at least 50% of P is an acceptable substitute for a trysail.**

# Sail Requirements



- A boat shall carry a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area greater than 10% of the yacht's  $I$  dimension squared but not greater than 13.5% height of the foretriangle squared.



# Sail Requirements



- **A boat shall carry a storm jib not exceeding 5% of the yacht's I dimension squared, an equipped with an alternative means of attachment to the headstay in the event of a failure of the head foil. Storm sails manufactured after 01/01/2014 shall be constructed from a highly visible material.**

# Class Options

- ORC and ORC Doublehanded
- ORC Racer/Cruiser
- ORC Cruiser
- PHRF

# ORC and ORC Doublanded

- (a) Entries shall have a current ORC International or Club certificate with a APH rating of 600 or lower.
- (b) RRS 51, Movable Ballast, will apply except for boats rated with movable/variable ballast.
- (c) RRS 52, Manual Power, will apply except for boats rated for their equipment to augment power



# ORC Cruiser/Racer

- (a) Entries shall have a current ORC International or Club certificate with an APH rating of 600 or lower.
- (b) Headsails: A maximum of two headsails each with area greater than 90% of the Foretriangle area may be carried aboard. There are no restrictions on the number of headsails which are smaller than 90% of the Foretriangle area. The full length of the luff of all headsails must be secured or fastened to the forestay or inner forestay. No more than one headsail may be flown at a time.
- c) Spinnakers: A maximum of two spinnakers may be carried aboard. Spinnaker maximum girths must be greater than 85% of the length of the foot of the sail.

# ORC Cruiser

- a) Valid ORC certificate must classify yacht as an IMS Cruiser/Racer and display a value for the Dynamic Allowance of .23% or greater.
- b) Headsails: A maximum of two headsails each with area greater than 90% of the foretriangle area may be carried aboard. There are no restrictions on the number of headsails which are smaller than 90% of the foretriangle area. The full length of the luff of all headsails must be secured or fastened to the forestay or inner forestay.
- c) Spinnakers: A maximum of two spinnakers may be carried aboard. Spinnaker maximum girths must be greater than 85% of the length of the foot of the sail.

# PHRF

(a) Entries shall have current PHRF of the Chesapeake ([www.phrfchesbay.org](http://www.phrfchesbay.org)) certificate with a handicap of between 50 and 126.

(b) RRS 51, Movable Ballast, will apply except for boats rated with movable/variable ballast.

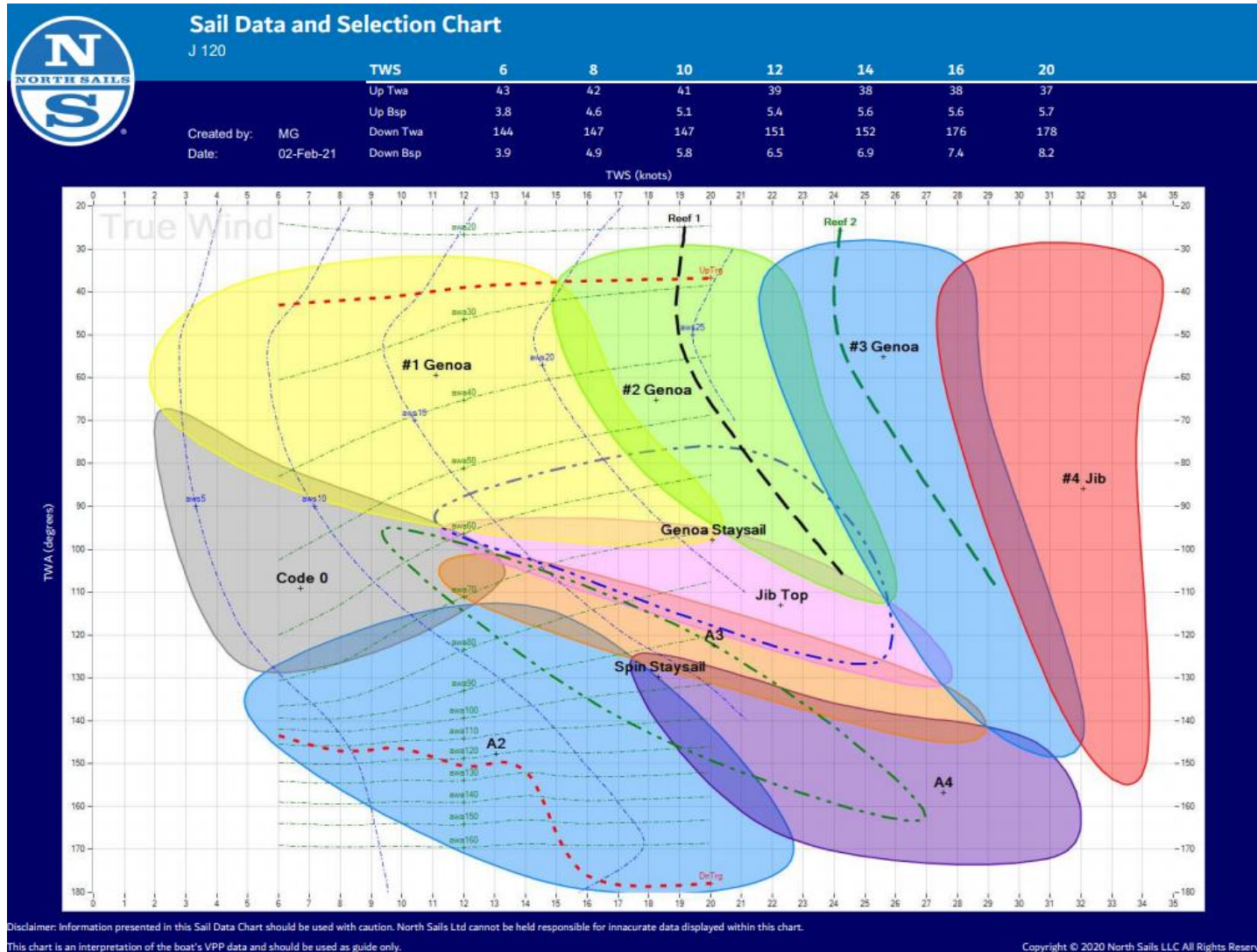
(c ) RRS 52, Manual Power, will apply except for boats rated for their equipment to augment power.



# Evaluating Your



# Sail Crossover Chart



# Upwind Sails



Overlapping Genoas (155%, 140%, 100%)



Non Overlapping Jibs (J1, J2, J3, J4 - overlap is similar, but change in shape and weight)





# Off-Wind Sails and Rigging

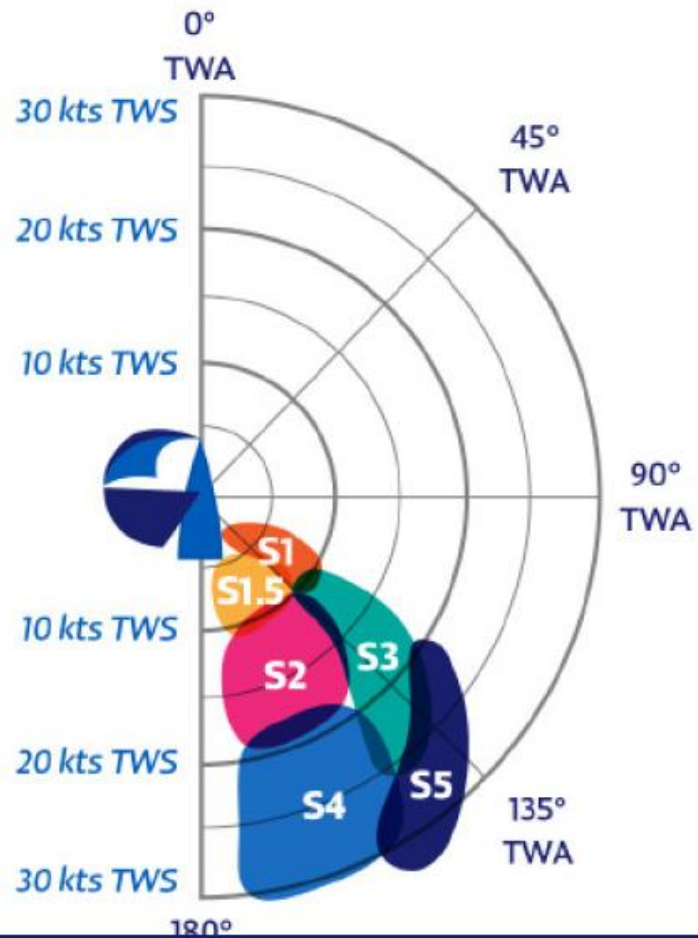
- Spinnakers
- Reaching sails
- Staysails
- Outboard leads

# Spinnaker Types



- Symmetrical
- Asymmetrical

# Symmetrical Options

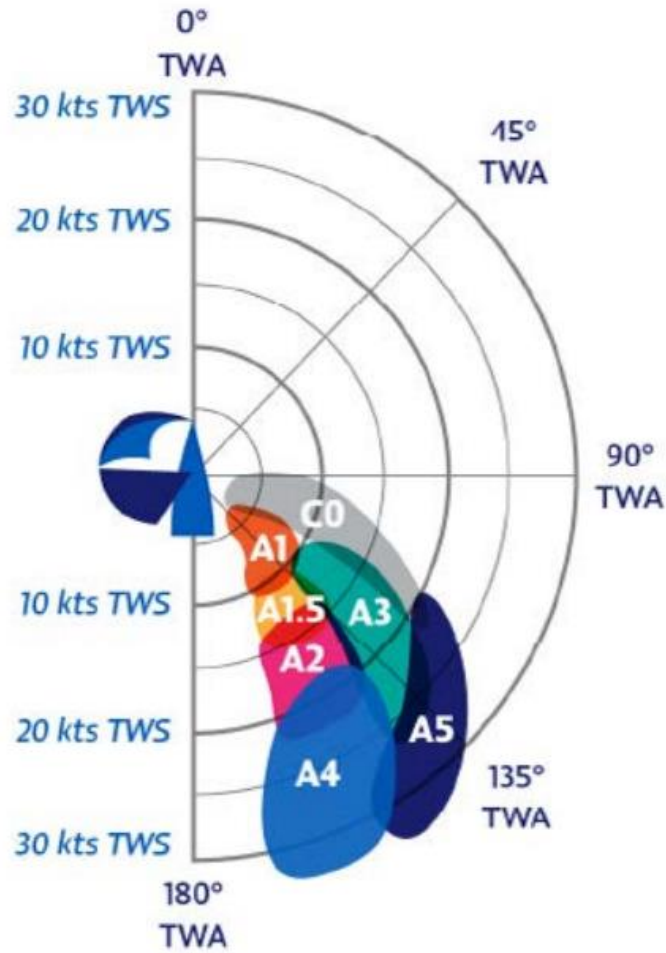


[View Wind Angle Chart](#)





# Asymmetrical Options

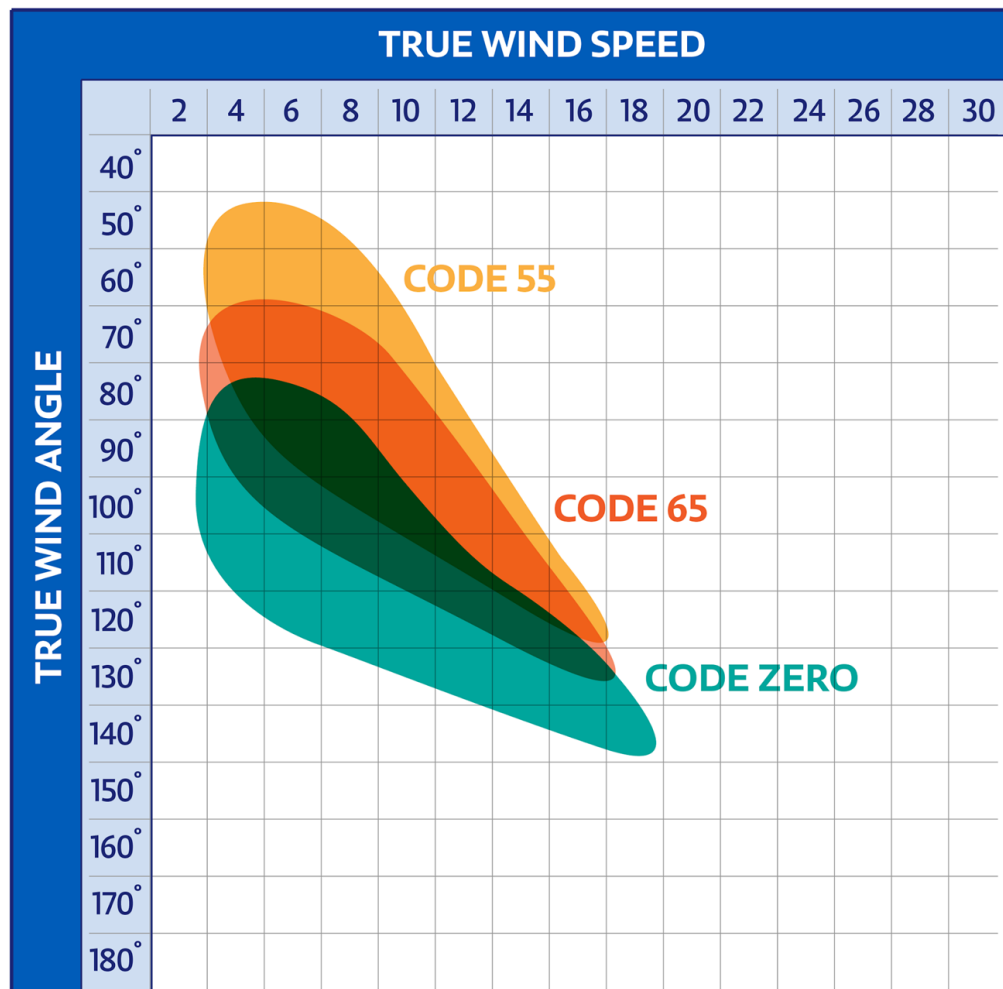


# Reaching Sails



- Code sails
- HSF's (ORC)
- Jib Tops
- Staysails
- Outboard leads

# Code Sails and HSF's



- HSF used to classify sails with midgirth between 50-75%
- 75%-85% Code sail declared as Assym on cert
- HSF's are found typically in ORC where the sail is measured and assessed on the certificate
- NOT ALLOWED IN ORC CRUISER



# Code Sails

- Measure like a spinnaker in PHRF
- ORC needs measurements
- Mid girth of 75%
- Easy to deploy
- Necessary on modern non overlapping rigs



# Headsails Set Flying



# Helix Luffs

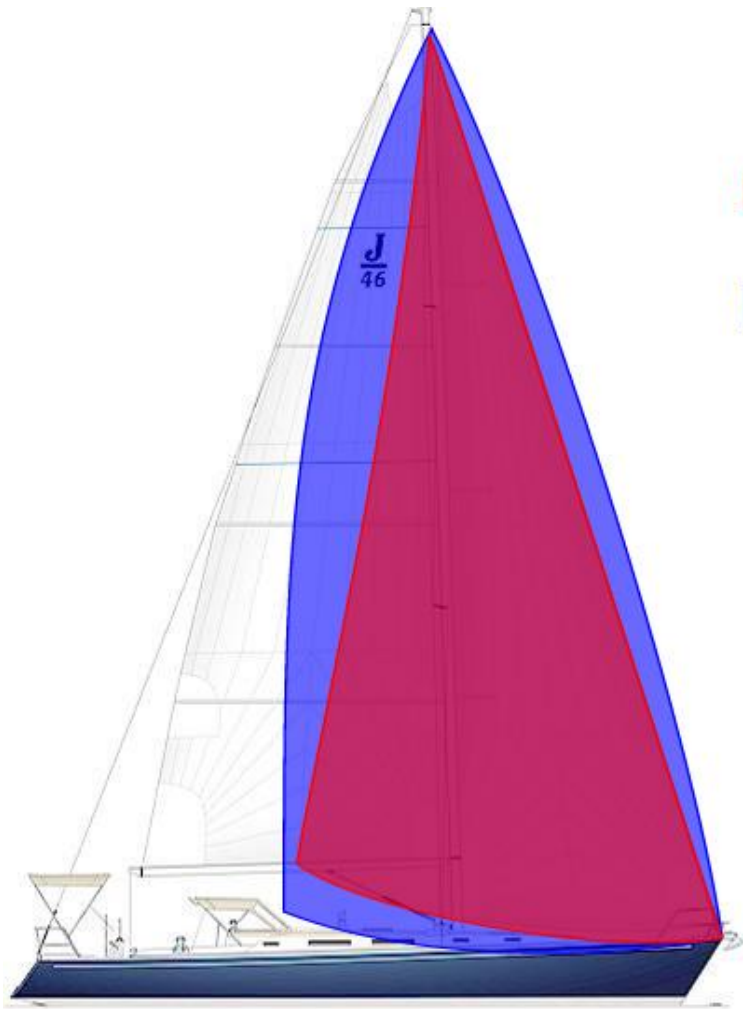




# Reduced Luff Sag



# Jib Tops



 Jib Top - 733 sq. ft.

 Code 0 - 1119 sq. ft.

- Good for boats with overlapping headsails
- Any old Genoas that can be recut?
- Higher clew so the leech stays in tension when eased off



# Outboard Leads



- Even break on the tell tales
- Make sure you have plenty of snatch blocks and spare sheets
- Relay to the watch behind you what the current sheeting set up is

# Types of Staysails



- Spinnaker Staysails
- Genoa staysails (GS)

# Dual Purpose Sails



- Most storm sails live in the bottom of the boat to never see the light of day
- Making storm and heavy weather sails that actually serve a dual purpose is becoming a trend



# Sail Handling



- Snuffers
- Continuous line furling systems
- Check your sail bags (labeled and sail orientation in the bag)





# Snuffers

- Simple sock to pull down over the spinnaker
- Both cost effective and easy



# Continuous line Furlers

- Bottom up (Code 0's and staysails)
- Top down (Code 0's and spinnakers)
- Racing and Cruising

# Sail Change Types



- In-line Peel
- Tack Change
- Letterbox drop
- Furling peels
- Going into the race you generally have a good idea of what the first 6 hours can bring, stack sails down below accordingly



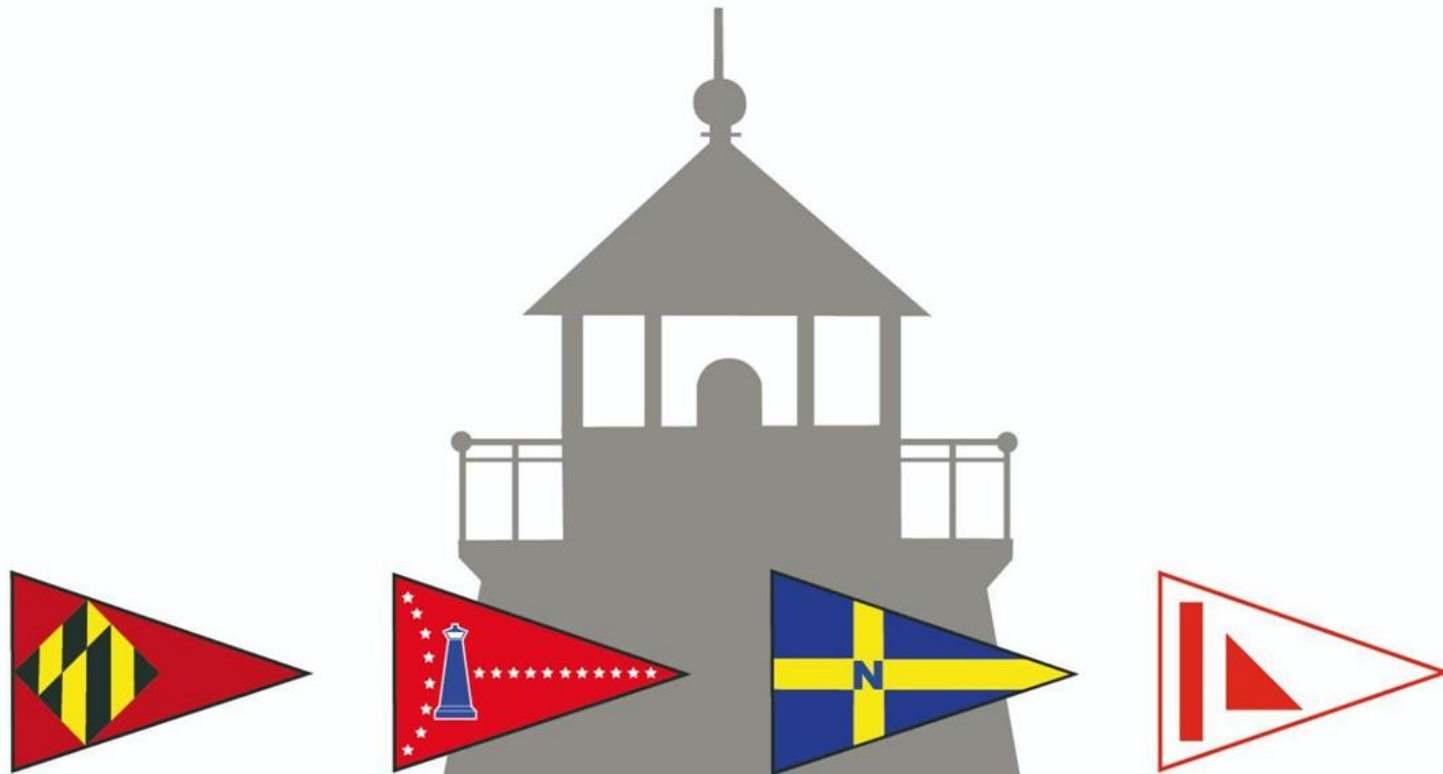


# Sail Repair Kit

- What to have?
- Offshore sail repairs
- Talk to your sailmaker to get specific materials for your sails



# Questions?



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