## THISTLE WEBINAR SERIES

Part 1: Tips & Tricks

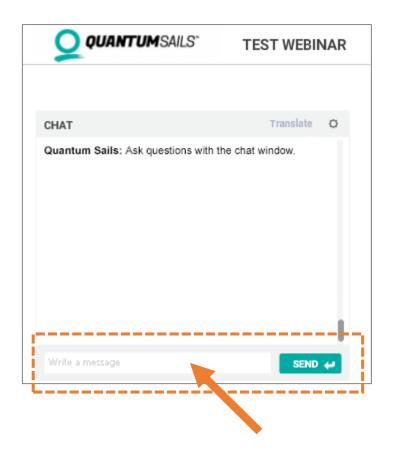


#### HOUSEKEEPING

#### Use the chat window to:

- Ask questions throughout the webcast – we'll answer them at the end during the Q & A section.
- Get help with technical issues.
- Send any comments.

A day or two after the webcast we will email all registrants a recording of the webinar and answer any questions we weren't able to get to during the presentation.



Type questions here!



## AGENDA

- Introductions
- Rig Tune
- Starting
- On the Course
- Boat-Handling
- Questions & Answers





#### SPEAKERS



KARL FELGER

Quantum Sails Cleveland Loft Manager and Thistle
Class Expert



**ALLAN TERHUNE**Quantum Sails Director of Inshore One Design and Thistle Class Expert



**GREG GRIFFIN**Quantum Sails On-the-Circuit Thistle Rep and Class Expert



## RIG TUNE: THE SHAPE OF SPEED

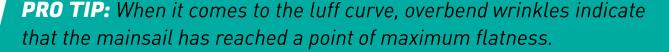


### MAST DYNAMICS

#### Tune your mast to match the mainsail's luff curve and the sailing style of your team.

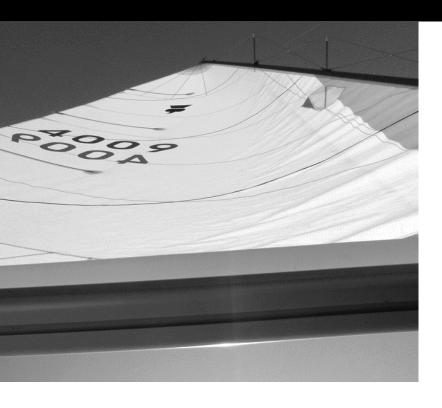
- Loose lower/middle diamonds will mean the sail is too flat, and vice versa.
- Uppers diamonds are reflective of crew weight, effectively depowering the mainsail with less tension.







### **CONTROL THE DRAFT**



**PRO TIP:** Vang sheeting allows the sail to be eased without powering up and to be trimmed without depowering.

The draft of the sail is managed by adjusting one or more of the "controls" on the boat.

#### Core controls include:

- The <u>outhaul</u> is used to control the depth of the draft.
- The <u>cunningham</u> is used to control the location of the draft.
- The <u>boom vang</u> is used to maintain the shape of the mainsail when eased and to induce mast bend.



## GEARING UP

# Adjusting the trim of the sails is like shifting through the gears of a car.

• 1<sup>St</sup> Gear: Stop & Start Mode

2<sup>nd</sup> Gear: Acceleration Mode

• 3<sup>rd</sup> Gear: Speed Mode

4<sup>th</sup> Gear: Point Mode

5<sup>th</sup> Gear: Heavy Air Mode



**PRO TIP:** The "slot", or space between the jib and main, should be open to allow the air to properly flow around the mainsail.



## STARTING: IN IT TO WIN IT



### DO THE HOMEWORK



#### Doing more homework before the start will lead to consistently better finishes.

- Get our early and identify any wind patterns.
- Adjust your control lines to maximize your speed and height.
- Identify which end of the line is favored.

**PRO TIP:** Getting a good line of sight and starting towards the middle of the line will minimize risk on the first beat.



## **PUNCH IT**

## Starts are unpredictable, so keep it simple.

- Find a routine that suits your style and level of competitiveness.
- Control your speed and momentum to cross the starting line less than five seconds after the start.



**PRO TIP:** At the start you want to be sailing in clear air, at top speed on the favored tack.



## ON THE COURSE



## CLIMBING THE LADDER

# The primary goal of the beat is to minimize your risk while maximizing your return.

- Sail in a clean air with the highest velocity.
- Sailing the closest angle towards the next mark
- Sailing with the majority of the fleet.



**PRO TIP:** Winning teams lead the fleet back to the middle third of the race course when possible.



## GET LOW



## Downwind sailing is about sailing lower faster.

#### **RUN MODE**

- Pole height and angle should be set so that the clews of the spinnaker are parallel to the water and rotated away from the main, respectively.
- Trim the sail to have as little curl as possible.

**PRO TIP:** Heel to the boat to windward to keep the spinnaker out from behind the main and reduce the wetted surface in the water.



## GET LOW (CONT'D)

#### **REACH MODE**

- Pole height and angle should be set so that the luff of the spinnaker is tight enough to pull the draft forward and the pole is perpendicular to the wind, respectively.
- Trim the sail so that the luff of the spinnaker curls all the time to ensure proper flow on both sides of the sail



**PRO TIP:** Steer the boat deeper in puffs to keep the apparent-wind angle constant.



## **BOAT HANDLING**



## THE FORCE IS STRONG

# Boat handling is all about feeling the balance between the rig, boat, and water.

- Sail with a neutral helm, hiking and adjusting sail trim to maintain balance.
- Tack in the flat spots.
- Gybe when the boat is going the fastest.



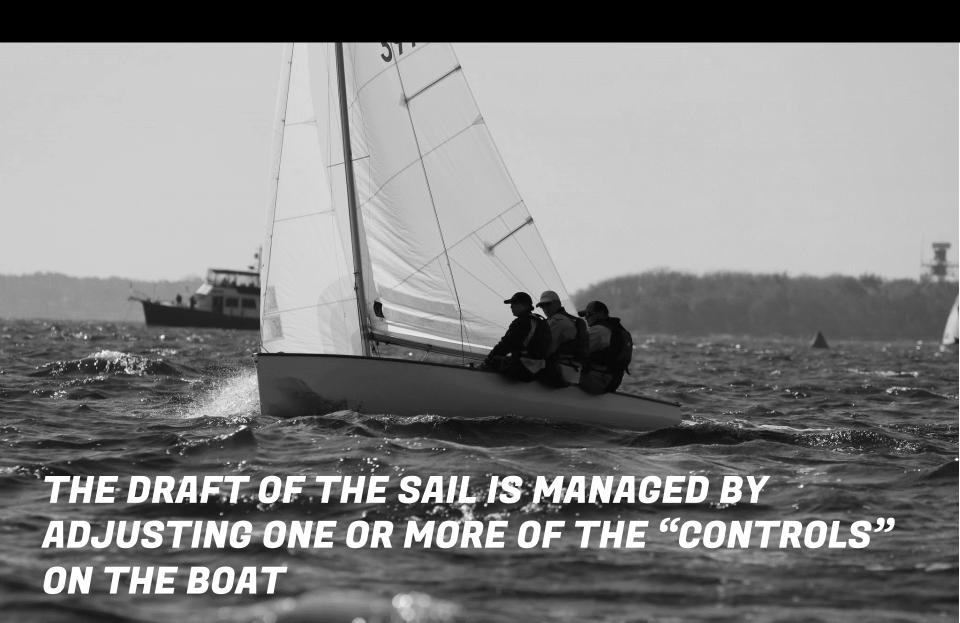
**PRO TIP:** Have the middle crew placed along the back edge for the thwart and consolidate the skipper and forward on each hip.



## SUMMARY IN PICTURES









## DOING MORE HOMEWORK BEFORE THE START WILL LEAD TO CONSISTENTLY BETTER FINISHES











## QUESTIONS 8 ANSWERS



### THANK YOU



KARL FELGER

Quantum Sails Cleveland Loft Manager and Thistle Class Expert

kfelger@quantumsails.com

**M** +1 216-346-0878

**O** +1 216-361-2594



**ALLAN TERHUNE** 

Quantum Sails Director of Inshore One Design and Thistle Class Expert

aterhune@quantumsails.com

**M** +1 732-644-1051

**0** +1 410-268-1161



**GREG GRIFFIN** 

Quantum Sails On-the-Circuit Rep

thistle3976@gmail.com

**M** +1 904-226-0770

