SCOW Seminar Series - Racing Rules of Sailing Part II - Marks and Starting - Sail Fast!

March Seminar Program

- Imagined race walkthrough
- A. ROW Rules: 10, 11, 12 and 13
- B. Limits on ROW Boat 14, 15, 16 and 17
- C. Mark Room: 18
- Sail Fast! Part 1 Basic sail trim
- C. Obstructions: 19 and 20.
- Other Rules Starting, Exoneration, Penalties
- Rule Recap, Spirit of the Rules & Protests
- Starting and Course Strategies.
- Sail Fast! Part 2 Advanced techniques
- Open TBD by popular consent

6 March 6 March 6 March 13 March 13 March later 20 March 20 March 20 March 27 March 27 March



Instructors

- David Metcalf SCOW Racing Director
 - 1969 San Diego Bay Sailboat Racing Junior Campion (as crew)
 - Winner of occasion race
 - Skipper and Captain, FS 5240 Miss Mabel
- Jeff Neurauter-
 - 2023 Buccaneer North American Champion
 - Macalpine-Downie/Gibbs Cup Trophy winner (2018, 2019, 2021)
 - Virginia Governor's Cup, Buccaneer Class winner (2010,2014, 2015, 2018, 2019, 2021, 2022)
 - North Carolina Governor's Cup, Buccaneer Class winner (2008, 2013, 2022)
 - SCOW member and WNR supporter





Questions about the SCOW's racing program? Contact the Racing Director at racing@scow.org

GOVERNING DOCUMENTS

RACING RESOURCES

North Sails 202

RACE COMMITTEE

SEMINAR PRESENTATIONS

- SCOW Racing Policy 2023
- World Sailing Racing Rules of Sailing 2021. 2024
- Wednesday Night Racing Standing SIs 2023
- <u>Flying Scot Class Rules</u>
- SCOW Protest Procedures

Series 1 - The rules of Part 2 'When Boats Meet'

Series 1 provides an introduction to the racing rules of sailing and covers the rules and scenarios you are most likely to come across on the race course.

Title	Content	Presenter
Introduction	Finding your way around the rule book. How do we decide which boat has right of way?	Chris Lindsay
The Start	Does anything limit the right of way boat?	Matt Goodbourn
The Windward Leg	Revision of the right-of-way rules. Obstructions and hailing for room to tack.	Niall McLeod
Marks Part 1	Marks, and who is entitled to mark room.	Chris Atkins
The Run	When do I have to sail my proper course?	Mark Rushall
Marks Part 2	Marks Masterclass	Jon Napier



Introduction to the The Start Racing Rules of The Windward Leg Marks - Part 1

The Run

Marks Part 2

Overview

- Review: Section A: Right of Way Rules
- Review: Section B: Limits to the ROW Boat
- Rule 18 and Mark Room
- Sail Fast! Basic Sail Trim



Review: Section A: Right of Way

- 10: Port Starboard
- 11: Windward Leeward
- 12: Clear astern keeps clear of clear ahead
- 13: While tacking keep clear

SECTION A RIGHT OF WAY

A boat has right of way over another boat when the other boat is required to **keep clear** of her. However, some rules in Sections B, C and D limit the actions of a right-of-way boat.

10 ON OPPOSITE TACKS

When boats are on opposite *tacks*, a *port-tack* boat shall *keep clear* of a *starboard-tack* boat.

11 ON THE SAME TACK, OVERLAPPED

When boats are on the same *tack* and *overlapped*, a *windward* boat shall *keep clear* of a *leeward* boat.

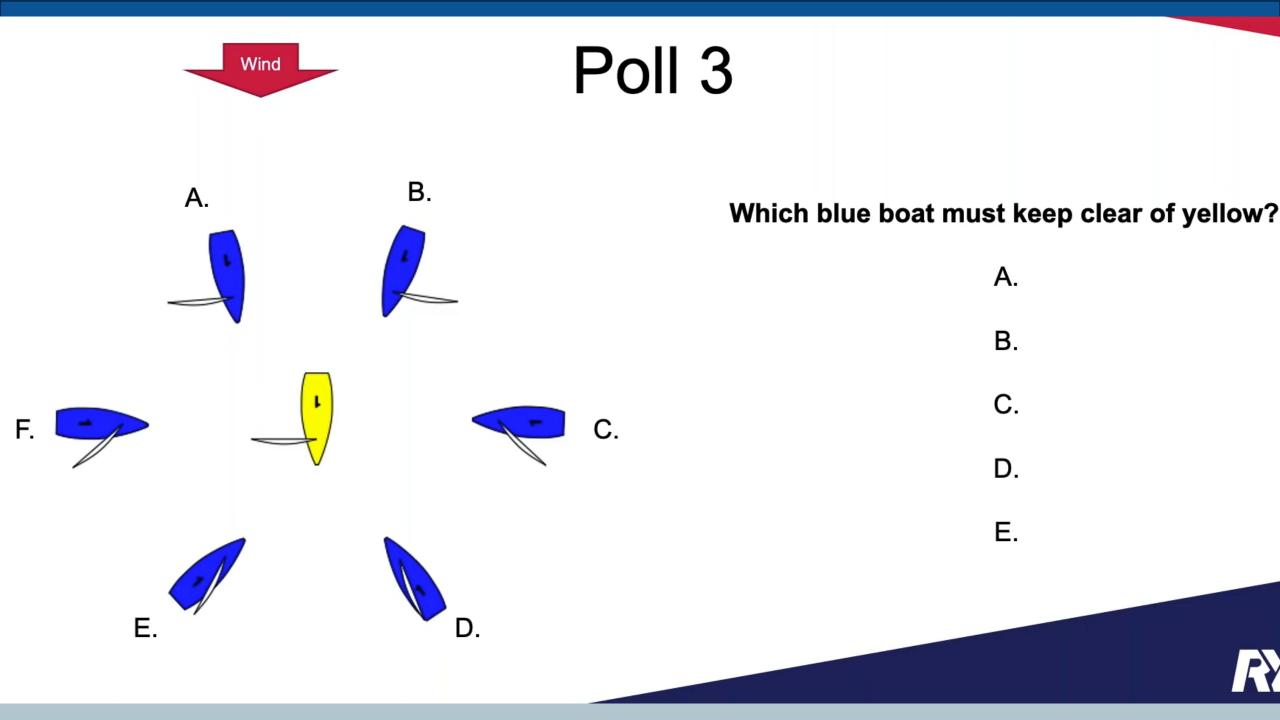
12 ON THE SAME TACK, NOT OVERLAPPED

When boats are on the same *tack* and not *overlapped*, a boat *clear astern* shall *keep clear* of a boat *clear ahead*.

13 WHILE TACKING

After a boat passes head to wind, she shall *keep clear* of other boats until she is on a close-hauled course. During that time rules 10, 11 and

12 do not apply. If two boats are subject to this rule at the same time, the one on the other's port side or the one astern shall *keep clear*.



Review: Section B

SECTION B GENERAL LIMITATIONS

14 AVOIDING CONTACT

A boat shall avoid contact with another boat if reasonably possible. However, a right-of-way boat, or one sailing within the *room* or *mark-room* to which she is entitled, need not act to avoid contact until it is clear that the other boat is not *keeping clear* or giving *room* or *mark-room*.

15 ACQUIRING RIGHT OF WAY

When a boat acquires right of way, she shall initially give the other boat *room* to *keep clear*, unless she acquires right of way because of the other boat's actions.

16 CHANGING COURSE

- **16.1** When a right-of-way boat changes course, she shall give the other boat *room* to *keep clear*.
- **16.2** In addition, on a beat to windward when a *port-tack* boat is *keeping clear* by sailing to pass to leeward of a *starboard-tack* boat, the *starboard-tack* boat shall not bear away if as a result the *port-tack* boat must change course immediately to continue *keeping clear*.

17 ON THE SAME TACK; PROPER COURSE

If a boat *clear astern* becomes *overlapped* within two of her hull lengths to *leeward* of a boat on the same *tack*, she shall not sail above her *proper course* while they remain on the same *tack* and *overlapped* within that distance, unless in doing so she promptly sails astern of the other boat. This rule does not apply if the *overlap* begins while the *windward* boat is required by rule 13 to *keep clear*.

15 ACQUIRING RIGHT OF WAY

When a boat acquires right of way, she shall initially give the other boat room to keep clear, unless she acquires right of way because of the other boat's actions

 \times

Room

The space a boat needs in the existing conditions, including space to comply with her obligations under the rules of Part 2 and rule 31, while manoeuvring promptly in a seamanlike way

Keep Clear

A boat keeps clear of a right-of-way boat

(a) if the right-of-way boat can sail her course with no need to take avoiding action and,

(b) when the boats are *overlapped*, if the right-of-way boat can also change course in both directions without immediately making contact.



16 CHANGING COURSE

16.1 When a right-of-way boat changes course, she shall give the other boat room to keep clear,

16.2 In addition, when after the starting signal a *port-tack* boat is *keeping clear* by sailing to pass astern of a *starboard-tack* boat, the *starboard-tack* boat shall not change course if as a result the *port-tack* boat would immediately need to change course to continue *keeping clear*.

Room

The space a boat needs in the existing conditions, including space to comply with her obligations under the rules of Part 2 and rule 31, while manoeuvring promptly in a seamanlike way

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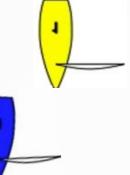
Proper Course

A course a boat would sail to *finish* as soon as possible in the absence of other boats referred to in the rule using the term. A boat has no *proper course* before her starting signal

13 WHILE TACKING

After a boat passes head to wind, she shall *keep clear* of other boats until she is on a close-hauled course. During that time rules 10, 11 and 12 do not apply. If two boats are subject to this rule at the same time, the one on the other's port side or the one astern shall *keep clear*.

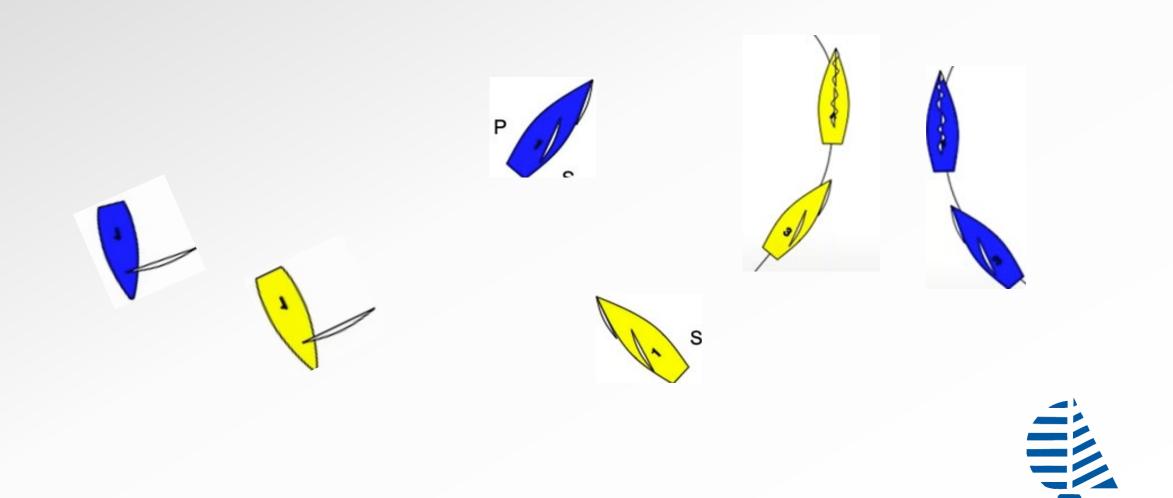
Leeward gains overlap from astern – proper course only



Leeward gains overlap from clear ahead – luffing is allowed



Questions from Part I?



Video – Every Weekend

• Every Weekend - YouTube



Rule 18 - Mark Room

18.1 – Rule 18 Mark Room does not apply to boats on opposite tacks when beating, but does apply to boats on opposite tacks on a run.

Zone The area around a *mark* within a distance of three hull lengths of the boat nearer to it. A boat is in the *zone* when any part of her hull is in the *zone*.

18.2 – The heart of the Rule...



Part 2 WHEN BOATS MEET

SECTION C AT MARKS AND OBSTRUCTIONS

Section C rules do not apply at a starting mark surrounded by navigable water or at its anchor line from the time boats are approaching them to start until they have passed them.

18 MARK-ROOM

18.1 When Rule 18 Applies

Rule 18 applies between boats when they are required to leave a *mark* on the same side and at least one of them is in the *zone*. However, it does not apply

- (a) between boats on opposite tacks on a beat to windward,
- (b) between boats on opposite *tacks* when the *proper course* at the *mark* for one but not both of them is to tack,
- (c) between a boat approaching a mark and one leaving it, or
- (d) if the mark is a continuing obstruction, in which case rule 19 applies.

Rule 18 no longer applies between boats when *mark-room* has been given.

18.2 Giving Mark-Room

- (a) When boats are overlapped the outside boat shall give the inside boat mark-room, unless rule 18.2(b) applies.
- (b) If boats are *overlapped* when the first of them reaches the *zone*, the outside boat at that moment shall thereafter give the inside boat *mark-room*. If a boat is *clear ahead* when she reaches the *zone*, the boat *clear astern* at that moment shall thereafter give her *mark-room*.
- (c) When a boat is required to give mark-room by rule 18.2(b),
 - she shall continue to do so even if later an overlap is broken or a new overlap begins;
 - (2) if she becomes overlapped inside the boat entitled to mark-room, she shall also give that boat room to sail her proper course while they remain overlapped.

Rule 18 - Mark Room

18.3 – Special case for boat on port tacking inside the zone



18.4 – Special case for ROW inside boat at leeward mark



Part 2 WHEN BOATS MEET

- (d) Rules 18.2(b) and (c) cease to apply if the boat entitled to mark-room passes head to wind or leaves the zone.
- (e) If there is reasonable doubt that a boat obtained or broke an *overlap* in time, it shall be presumed that she did not.
- (f) If a boat obtained an inside overlap from clear astern or by tacking to windward of the other boat and, from the time the overlap began, the outside boat has been unable to give markroom, she is not required to give it.

18.3 Passing Head to Wind in the Zone

If a boat in the *zone* of a *mark* to be left to port passes head to wind from *port* to *starboard tack* and is then *fetching* the *mark*, she shall not cause a boat that has been on *starboard tack* since entering the *zone* to sail above close-hauled to avoid contact and she shall give *mark-room* if that boat becomes *overlapped* inside her. When this rule applies between boats, rule 18.2 does not apply between them.

18.4 Gybing

When an inside *overlapped* right-of-way boat must gybe at a *mark* to sail her *proper course*, until she gybes she shall sail no farther from the *mark* than needed to sail that course. Rule 18.4 does not apply at a gate *mark*.



Rule 18 – "Mark-Room"

Purpose: Safe and orderly rounding of marks

Principles:

- If behind, don't push in! Let those ahead go round first
- If outside, give room for inside boat to round the mark

The Devil's in the Detail:

- 1. How and when do we decide who is outside or behind?
- 2. How much room is "mark-room"?
- 3. How to combine with other rules that apply at the same time?





The "Zone" rule – 18.2(b)

Zone: area within 3 lengths of a mark

2 sentences, 2 situations:

- If boats are overlapped when the first of them reaches the zone, the outside boat shall thereafter give the inside boat mark-room.
 - P1: Blue must give Yellow mark-room -
- If a boat is clear ahead when she reaches the zone, the boat clear astern shall thereafter give her mark-room.

2. How Much Room's Mark-room'?

It's a defined term, so we know where to find the answer ...

Mark-room is:

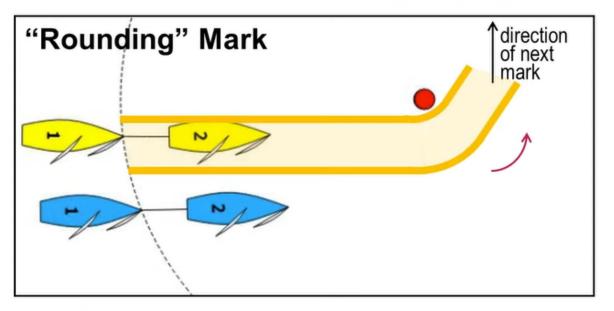
- Room for a boat to leave a mark on the required side. Also,
 - a) Room to sail to the mark when her proper course is to sail close to it, and
 - b) Room to round the mark as necessary to sail the course.
- >
- <u>However, mark-room for a boat does not include room to tack</u> unless she is *overlapped* inside and to *windward* of the boat required to give *mark-room* and she would be *fetching* the *mark* after her tack.



Rounding Mark: the "Corridor"

Mark-room is:

- a) <u>Room to sail to the mark</u> when her proper course is to sail close to it, and
- b) Room to round the mark as necessary to sail the course.



The "Corridor": the space needed by Yellow to sail from where she is:

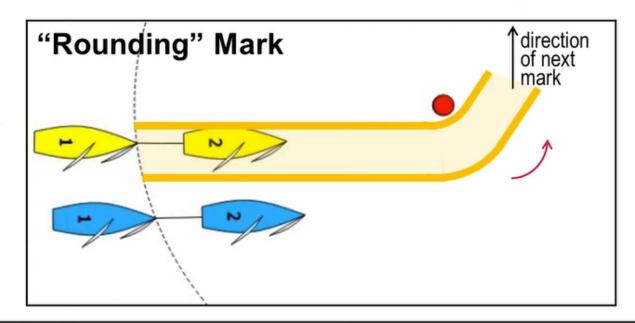
- a) a straight course to alongside the mark (as near as she can be when sailing in a seamanlike way and complying with the rules); then
- b) round the mark.



Rounding Mark: the Corridor is "Safe"

A reminder: rule 11 says Yellow (windward) must keep clear of Blue (leeward).

Rule 21 (the other important *mark-room* rule) says:

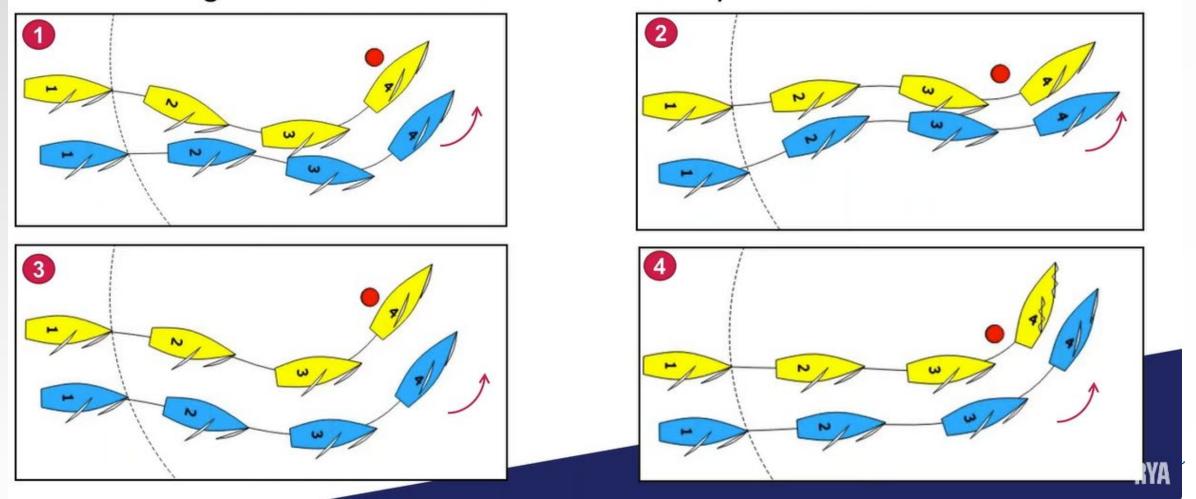


EXONERATION

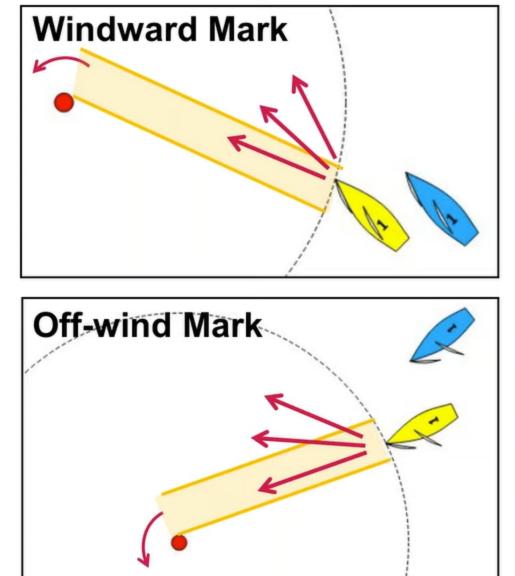
When a boat is sailing within the *mark-room* to which she is <u>entitled</u>, she is exonerated if, in an incident with a boat required to give her that *mark-room*, she breaks any of rules 10 - 13, 15 or 16, or 31.

Rounding Mark: What Happens Next? 4 situations, YOU decide:

Does Blue give mark-room? Does Yellow keep clear? Is either exonerated?



When Inside Boat Has Right of Way



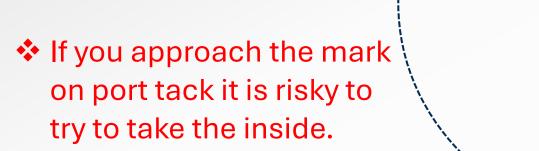
Mark-room rule is not really relevant

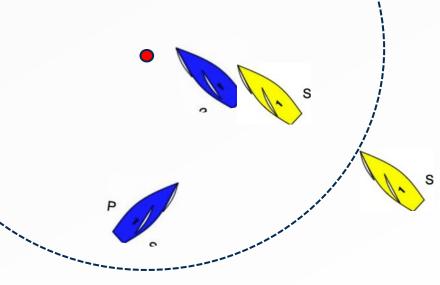
- Rule 11 says Blue must keep clear (whatever course Yellow sails)
- Rule 17 (Proper Course) determines whether Yellow is permitted to sail higher than her proper course
- When Yellow changes course, she must give Blue room to keep clear (rule 16.1)
 - Except if Yellow breaks rule 16.1 when sailing in the corridor (e.g. bearing away at the *mark*), she is exonerated

18.3 Passing Head to Wind in the Zone

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If a boat in the *zone* of a *mark* to be left to port passes head to wind from *port* to *starboard tack* and is then *fetching* the *mark*, she shall not cause a boat that has been on *starboard tack* since entering the *zone* to sail above close-hauled to avoid contact and she shall give *mark-room* if that boat becomes *overlapped* inside her. When this rule applies between boats, rule 18.2 does not apply between them.





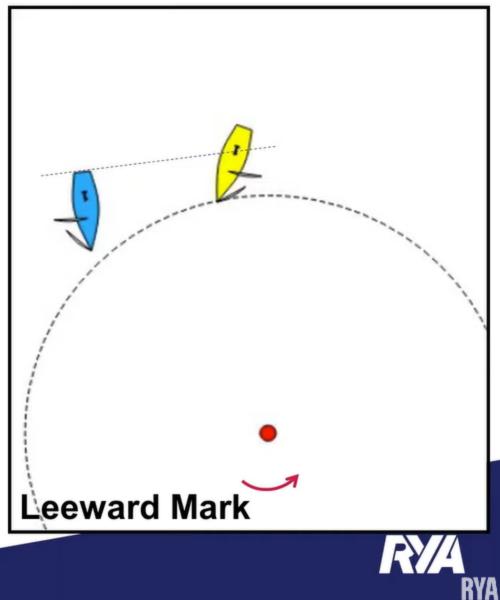


At an Offwind Mark, One Extra Rule ...

Rule 18.4 (applies once a boat in zone)

GYBING

When an inside *overlapped* right-of-way boat must gybe at a *mark* to sail her *proper course*, until she gybes she shall sail no farther from the *mark* than needed to sail that course.



At an Offwind Mark, One Extra Rule ...

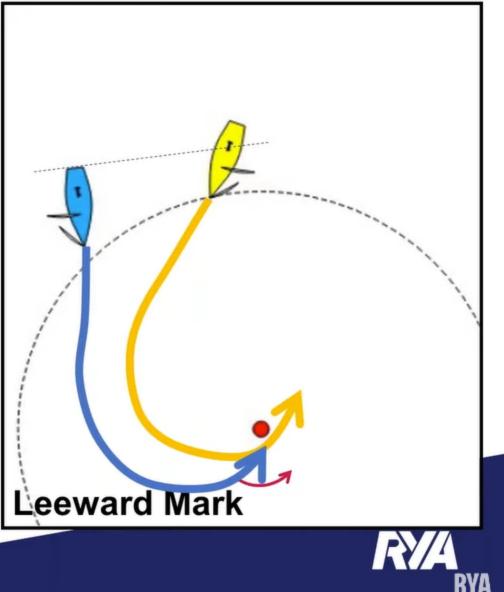
Rule 18.4 (applies once a boat in zone)

GYBING

When an inside *overlapped* right-of-way boat must gybe at a *mark* to sail her *proper course*, until she gybes she shall sail no farther from the *mark* than needed to sail that course.

- Yellow is inside, overlapped and right-of-way over Blue
- Yellow doesn't have to sail in corridor to be "safe", but she is limited by 18.4

Note 18.4 does not apply at a gate mark; Yellow has choice to sail to the other mark.

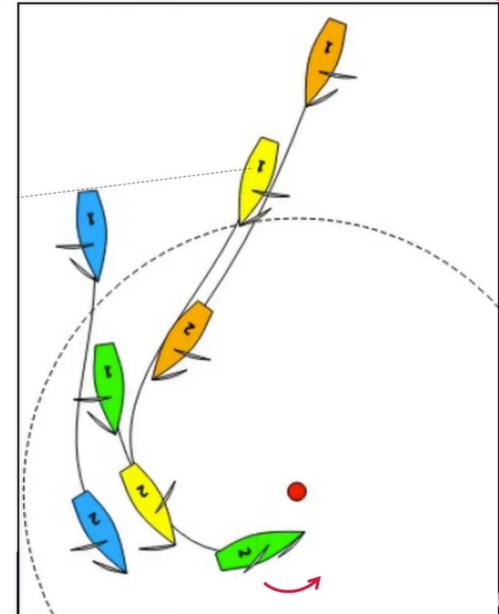




If You Thought This Familiar

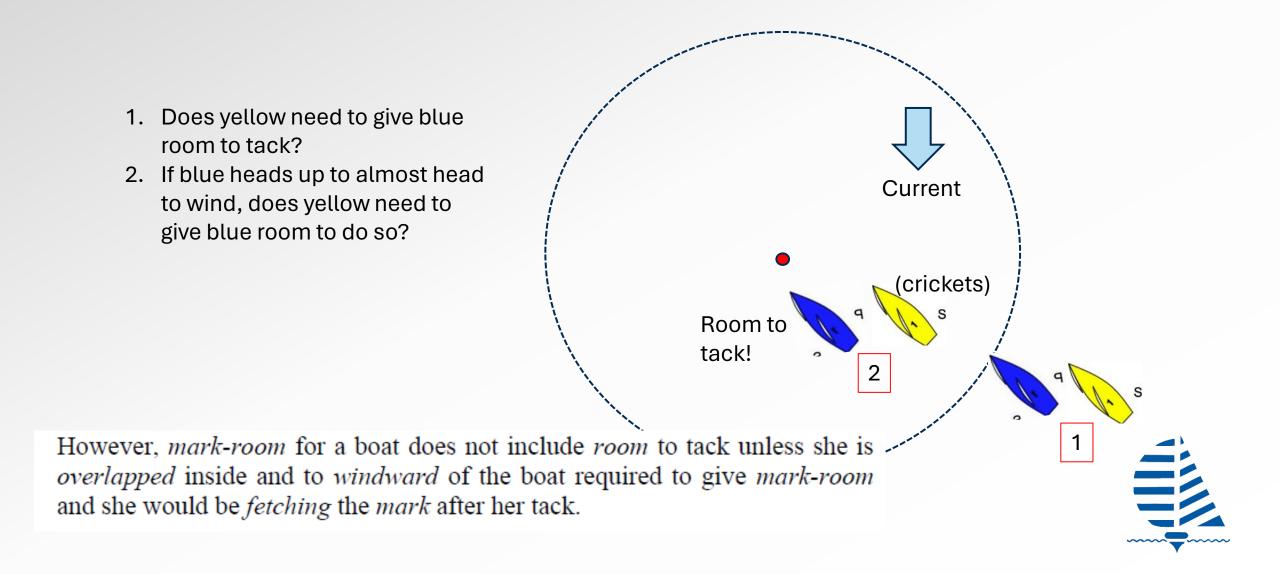
Every Boat Complies with Rules

- Green reaches zone clear ahead of all
 - all boats give Green mark-room
- Yellow r-o-w overlapped inside Blue when she reaches zone
 - Rule 18.4 (not mark-room / corridor) initially limits Yellow's course
 - Yellow sails a proper course (given Green), and Blue keeps clear
 - Note: When Yellow gybes after P2, she must keep clear and sail in corridor
- Orange, clear astern when each boat reaches the zone, gives mark-room to all SUCCESS!



Summary: What We Have Covered

- > Mark-room is an obligation on the outside or clear astern boat
 - The rule is written to be applied to pairs of boats
 - Boats' positions when the first reaches the zone normally decides which boat has this obligation, and which is entitled to mark-room (rule 18.2(b))
- All other rules continue to apply: a keep-clear boat must continue to keep clear; a right-of-way boat must comply with rule 16.1; rule 17 applies
- At a rounding mark, mark-room is best visualised as a corridor straight to alongside the mark, then round it (mark-room definition).
- When a keep clear boat entitled to mark-room is sailing in the corridor, she is exonerated (rule 21) failing to keep clear in an incident with the boat required to give her mark-room
- Rule 18.4 requires an inside overlapped r-o-w boat to gybe as necessary to sail her proper course



Yellow protests, claiming blue had enough room. What is the call?

Mark-Room Room for a boat to leave a mark on the required side. Also,

- (a) *room* to sail to the *mark* when her *proper course* is to sail close to it, and
- (b) *room* to round or pass the *mark* as necessary to *sail the course* without touching the *mark*.

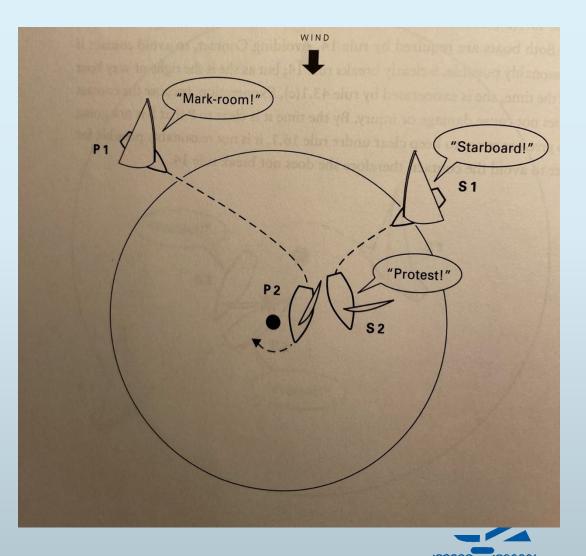
Blue's boom strikes yellow during gybe

2



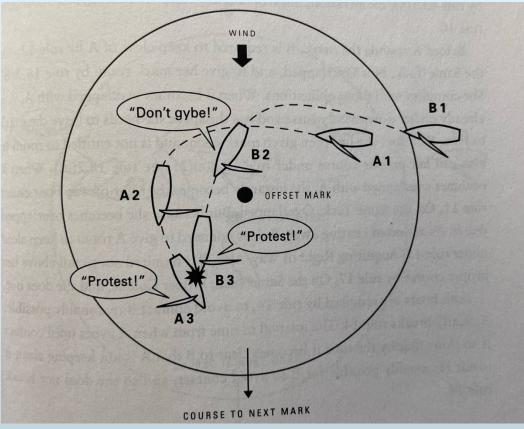
Boat S (on starboard) is approaching leeward mark. Boat P (on port) is similarly approaching leeward mark on a collision course. S reaches zone first and hails "Starboard" and P hails "mark room"! When at the mark , P begins to gybe inside of S and S is forced to bear away to avoid hitting P. S protests.

Clear Astern and *Clear Ahead*; *Overlap* One boat is *clear astern* of another when her hull and equipment in normal position are behind a line abeam from the aftermost point of the other boat's hull and equipment in normal position. The other boat is *clear ahead*. They *overlap* when neither is *clear astern*. However, they also *overlap* when a boat between them *overlaps* both. These terms always apply to boats on the same *tack*. They apply to boats on opposite *tacks* only when rule 18 applies between them or when both boats are sailing more than ninety degrees from the true wind.



• Boats A and B are approaching the mark on starboard. The next leg is a downwind leg with time spent on both tacks. When A reaches the zone she is clear ahead of B. A bears away around the mark to her downwind sailing angle on Starboard. At this point she is overlapped with the mark B becomes overlapped inside. A bears away and gybes onto port. There is contact. Both protest.

Hint: Mark Room is the space A needs to sail to the mark, leave it on the required side and sail the required course.

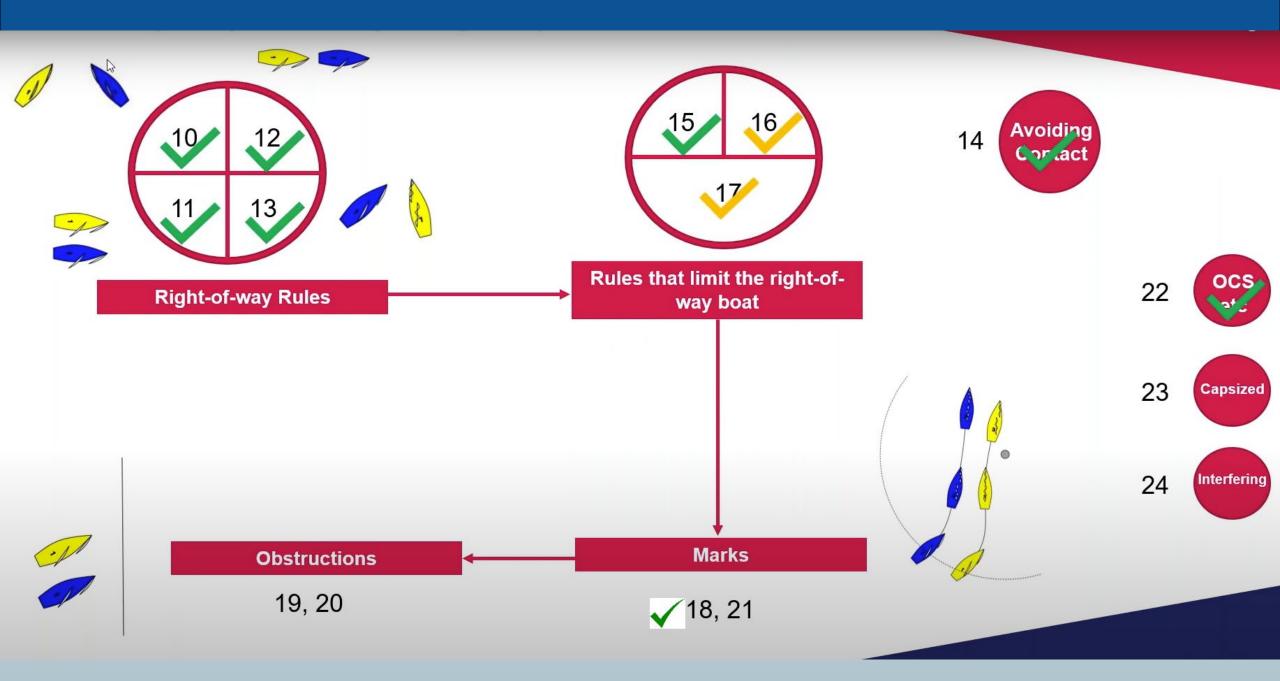






- Taking Mark Room UK Sailmakers (youtube.com)
- Time permitting (min 35)
- Crowded Rounding (youtube.com)



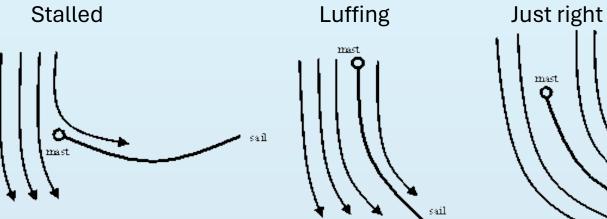




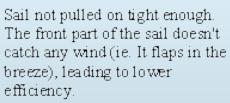
- Overview
- Main Sail Trim Techniques
- Jib Trim
- Reducing Heel in Heavier Wind
- Light Wind Technique

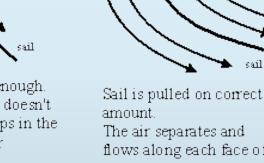


Sail Theory



Sail is pulled on too tight. The air separates as it flows over either side of the sail, leading to lower lift and efficiency.

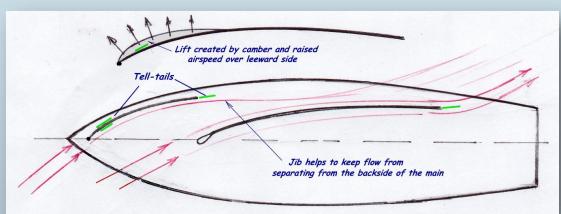




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The air separates and flows along each face of the sail smoothly, generating maximum lift and efficiency.

sail



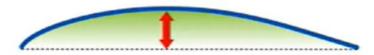


Sail Theory

Better VMG (Increased Lift/Drag Ratio)

Desired for most conditions (light-medium air, manageable waves)

- Slightly rounded entry
 - · Lift force is directed more forward
- Maximum draft position just forward of center
 - Allows gradual curvature throughout the sail
 - Target is 40-45% aft for a mainsail
 - · 45 50% aft if jib is present
- Flat leech
 - Less lift and drag in aft portion of sail
 - Better lift-drag ratio
 - Less side force



82



Sail Shape – Flat vs Full

Full Sail – More Power, holds wind when sailing down wind. Flat Sail – Depower for control or Better pointing.

Mainsail shape controls:

- Mainsheet
- Halyard or Cunningham
- Boom Vang
- Outhaul

Other controls (not on FS)

- Traveler
- Backstay





Flying Scot Tuning Guide and Tips

Pre-Race Sail Adjustments

Mainsail

Mast Rake - 28' 6"

- Halyard better too loose than too tight. Raise until luff is smooth and then ease back until small wrinkles appear.
- Outhaul better too tight than too loose. Very hard crease in heavy air; tight crease in medium conditions; loose crease in light air and in sloppy waves.

Note: Opinions vary, but I don't believe you need to ease the outhaul when going downwind. Reason: more outhaul = more projected sail area.

Cunningham – nothing unless you are overpowered in heavy air. In heavy air, raise your main all the way up until the luff is smooth (but don't overtighten and break your halyard shive!) and then crank on the Cunningham hard to pull the draft forward as much as possible.

JIB

Rig tension – loose rig = no tension and approximately 1" of "slop"

snug = 80-120 lbs

tight = 120-180 lbs

Halyard – slight "scallops" at hanks. (You must sail close-hauled to accurately check this.)

Fairlead - move it aft in heavy air when overpowered; otherwise, all the way forward.

SPINNAKER

Halvard – tie knot 6 inches from head

Guy -- under hook

Sheet – NOT under hook

Topping lift – at perpendicular height (Marked line = easy reference)



Flying Scot Tuning Guide and Tips

During-Race Adjustments

MAINSAIL

Mainsheet: 1st gear = main batten out slightly; sailing "fat" w/slight heel to leeward

2nd gear = main batten parallel to boom; sailing flat

3rd gear = main batten SLIGHTLY hooked (can't stay like this too long usually); jib luff is breaking (ie. pinching slightly)

Vang: none if light air;

keep the head "powered up" in moderate air and puffy conditions by snugging the vang so the boom doesn't rise when you sheet out.

lots of vang in heavy air to depower the mainsail by bending mast

Outhaul: Very tight with hard crease in heavy air

Creased snugly in medium and light air

Ease out shelf foot to "bag out" sail downwind in light air or very lumpy seas and medium air, but you should never ease so much that you see vertical pucker creases.

Ease out shelf foot in "lumpy and light" conditions for power.

JIB

(Note: marking sheets helps reference positions!)

Leeward sheet: 1st gear = top batten slightly out from centerline (note: this is also fast in heavy air)

2nd gear = top batten parallel to centerline of boat

3rd gear = top batten parallel (ie. NEVER, EVER hook jib top batten)

Windward sheet: 1st gear = none

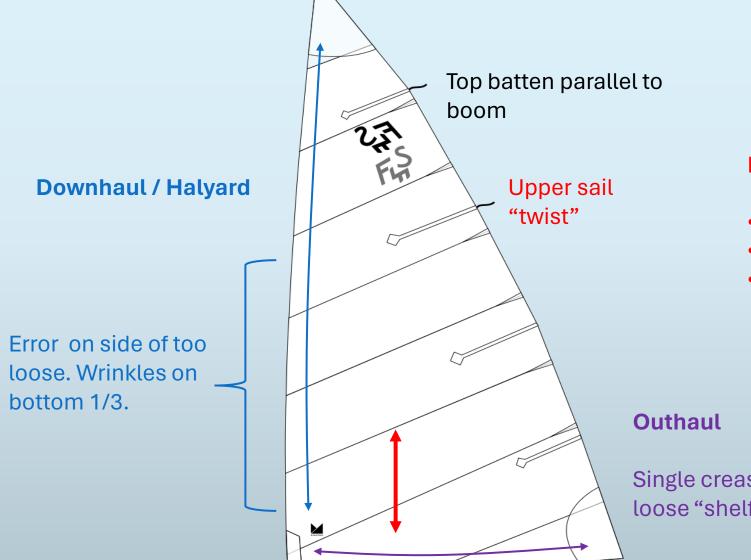
2nd gear = 1/2 way

3rd gear = clew pulled inboard to center of seat

SPINNAKER

Leeward sheet: constantly ease it to get a slight curl in leading edge of chute Winward sheet ("guy"): make sure it is perpendicular to wind. Too far forward is SLOW.

Flying Scot – Mainsail Home Base



Boom Vang

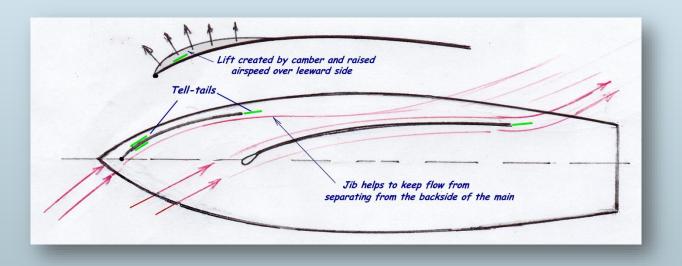
- Snug so boom does not rise.
- No pressure in light air. •
- Crank in heavy air to flatten sail

Single crease, create loose "shelf".



Learning the correct sail tune

- 1. Read the MADD Sails or North Sails tuning guides
- 2. Go sailing. Get a feel for what seems to work
- 3. Observe top racers
- 4. Adjust sails as wind changes
- 5. After a good outing mark lines or positions.





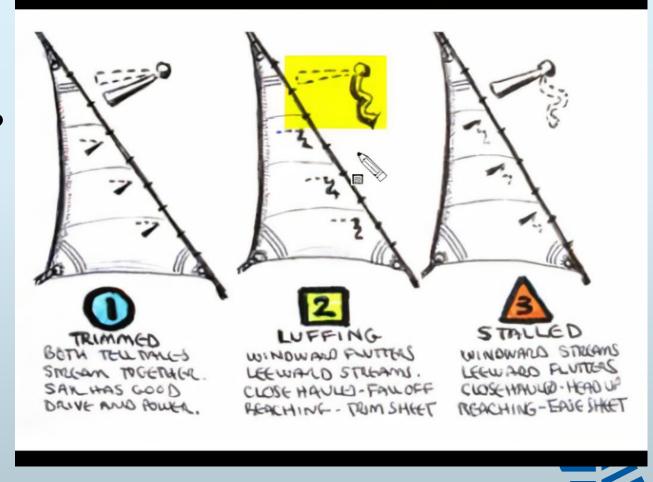
Jib Adjustments

- Fairlead Car location
 - Light wind forward
 - Heavy wind back
- Halyard tension
 - Loose, almost scallops in light wind
 - Tight in heavy wind
- Use windward sheeting jib clew even with middle of seat.



Jib Adjustments

- Tell tales flowing aft smoothly
- Tell tales- breaking together?



<u>Source</u>: Former Racing Director and Fleet Captain, Dave Beckett



Sailing Fast In Pictures

Proper Angle of Heel

Flat is Fast



Heel Angle

Heeling vs Flat

High degree of heel = SLOW:

- Pushes a lot of water on leeward bow
- Causes excessive weather helm
- Causes drag (cavitation) from rudder
- Increases leeway

Sailing flat = FAST:

- Reduces all of the above
- Increases VMG toward mark



Reduce Heel

Crew weight

- Move forward*
- Stay together
- Hike to windward

*In very heavy chop, weight aft to get bow up and increase speed



Reduce Heel

Sail Controls

- Vang-On
- Mainsheet Ease
- Outhaul Tight
- Luff Tighten
 Halyard
 - o Cunningham



Reduce Heel Sail Trim & Hike

Anticipate Gusts

- Ease
- Hike
- Trim



Excessive Weather Helm

Flatten Boat

- Vang On
- Ease Main
- Hike
- Adjust Centerboard



Flat and Fast

<u>Crew</u>

- Forward & together
- Hiking

<u>Sail Controls</u>

- Vang tight
- Outhaul tight
- Mainsheet eased



Sailing Angle and Speed

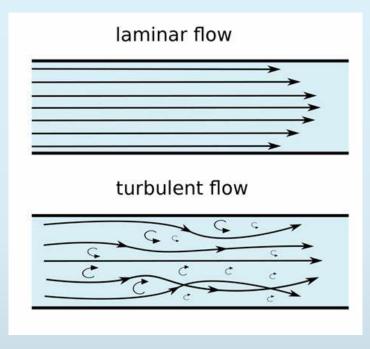
Look around at other boats

- Who's sailing higher or faster?
- Why?
- Adjust boat and sail trim to optimize VMG



Light Air Technique

- Job 1: Create Laminar Flow
 - Over bottom
 - Through sails
- Ease sheets anything to get laminar flow.
- Heel boat to leeward so sails have wing-like shape
- Stay Still!
- When wind completely dies, it will appear as a header.





Heel to Leeward

- Gravity helps maintain sail shape
- Reduces wetted surface area of hull (drag)





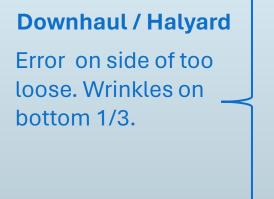
More Light Wind Technique

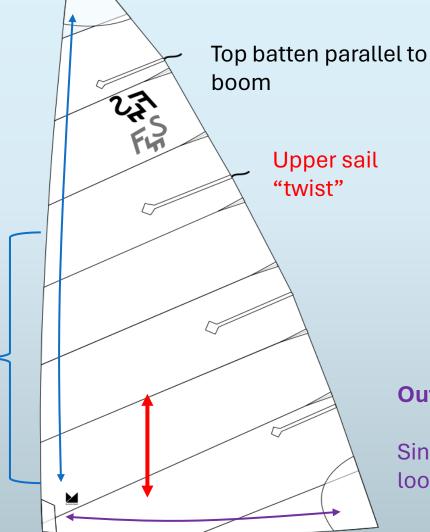
- When wind completely dies, it will appear as a header. Don't Tack.
- Roll Tack (see video).
- Crew forward and together.
- Spinnaker
 - Will fill first, light material
 - All the commotion to raise it will kill laminar flow
 - If wind shifts, it will serve as a brake.



Summary

- Loose and full in light wind
- Tight and flat in heavy wind
- Jib fairlead forward in light wind
- Jib fairlead aft in heavy wind

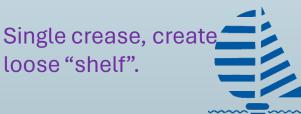




Boom Vang

- Snug so boom does not rise.
- No pressure in light air.
- Crank in heavy air to flatten sail

Outhaul







Coming up

- Imagined race walkthrough
- A. ROW Rules: 10, 11, 12 and 13
- B. Limits on ROW Boat 14, 15, 16 and 17
- C. Mark Room: 18
- Sail Fast! Part 1 Basic sail trim
- C. Obstructions: 19 and 20.
- Other Rules Starting, Exoneration, Penalties
- Rule Recap, Spirit of the Rules & Protests
- Starting and Course Strategies.
- Sail Fast! Part 2 Advanced techniques
- Open TBD by popular consent

6 March 6 March 6 March 13 March 13 March later 20 March 20 March 20 March 27 March 27 March

