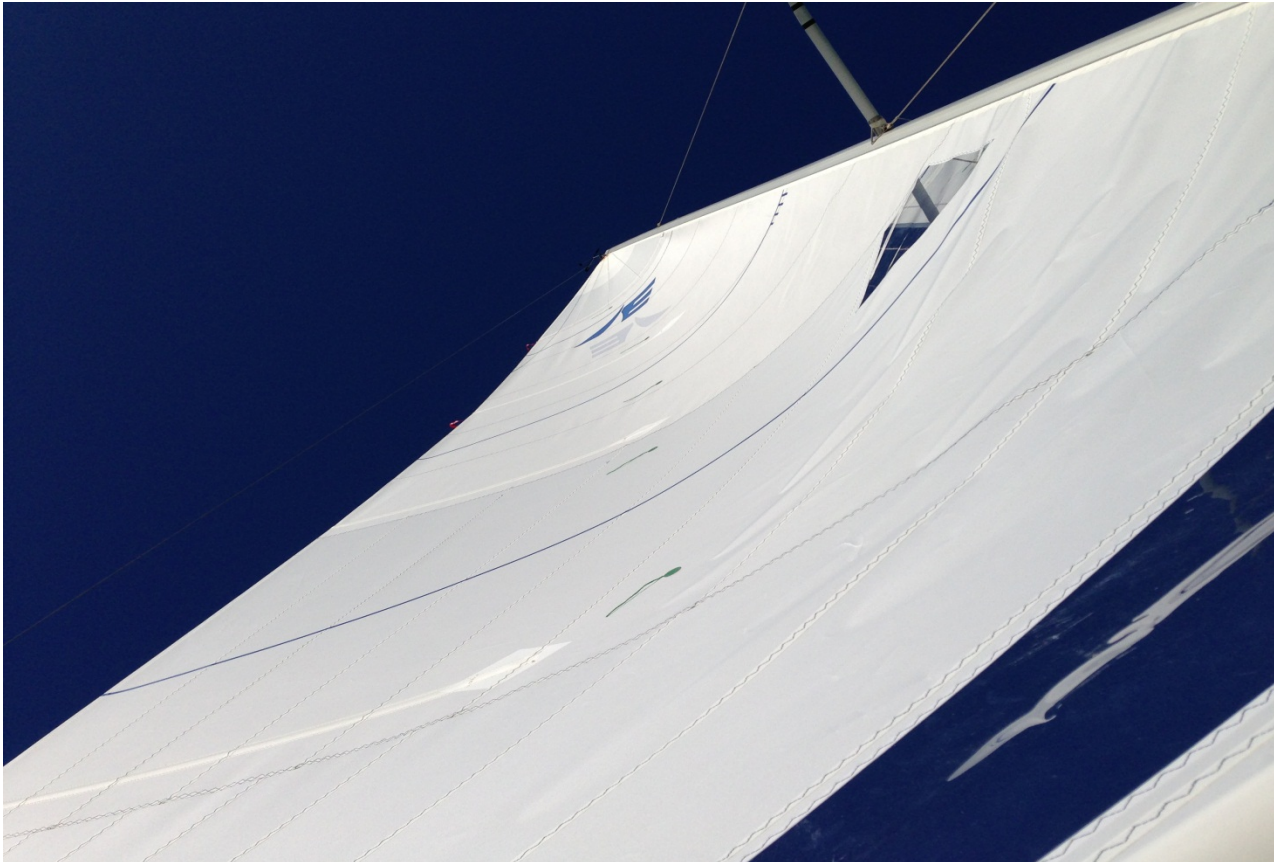


# NORTH SAILS



**Sail Set-ups & Photographing  
Hobsons Bay Yacht Club 2020**

# NORTH SAILS



## **Photographing Sail Trim & Set up**

### Key Points.

- 1 - Boat Camera & Camera Position & Angles
- 2 - Setting up in Range
- 3 - Recording TWS, TWA, Rig Settings & Sea State
- 4 - Measuring the Camber & Draft of your Photos
- 5 - Twist, Entry & Exit,
- 6 - Mark your fast sail settings

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# Boat Camera, Positions & Angles

- Wide Angle Lens (28mm if possible)
- Position Fore & Aft (@ 50% of the foot length)
- Position Athwartships (inline tack to clew)
- Rotating the camera to fit the Draft stripe



# Setting Up in Range

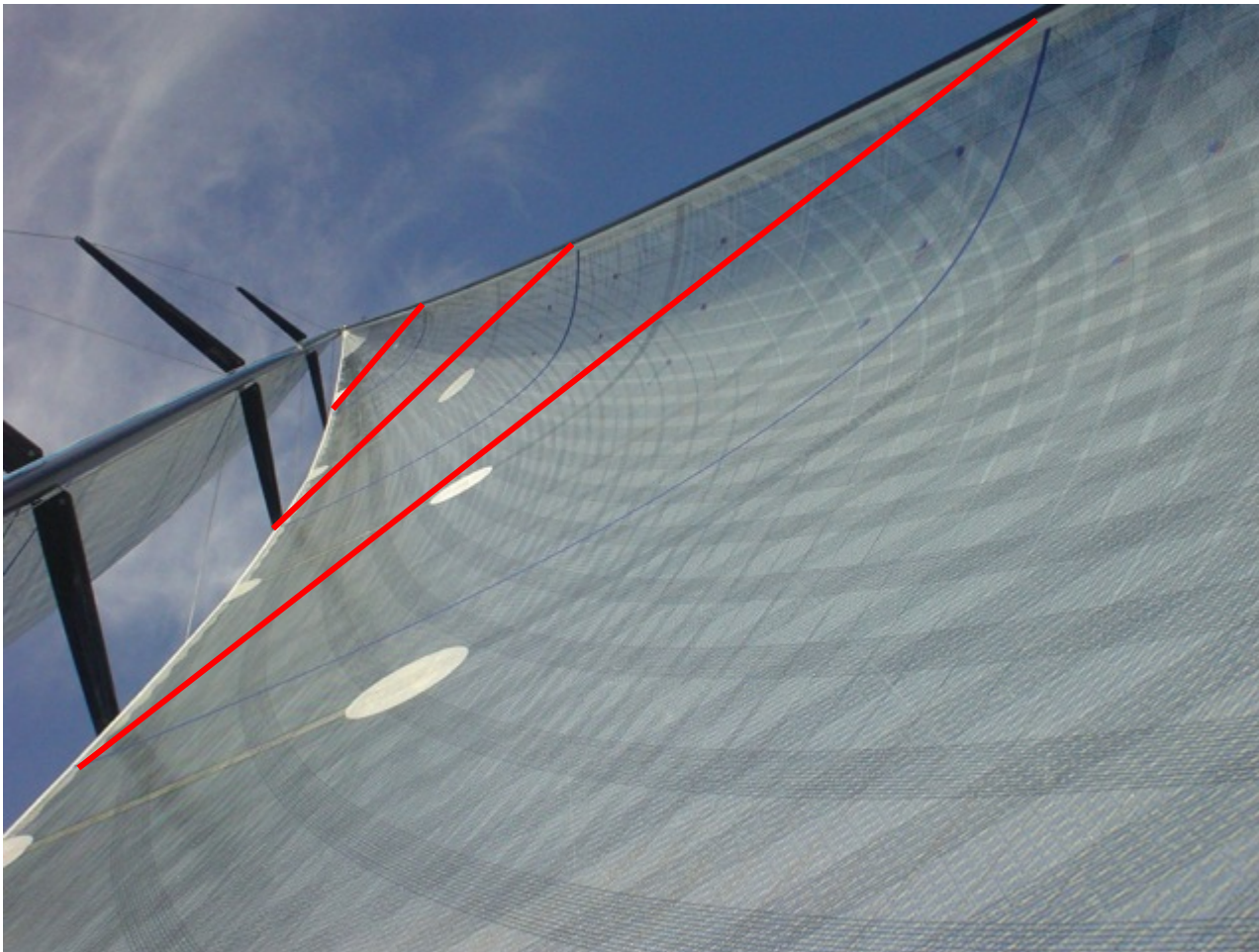
- Headsails, (Light, medium, heavy, #4. in the correct TWS?)
  - Aim to get your shot in the middle of the TWS range for the sail.
- Mainsails, (lowest TWS and Maximum TWS for Full Main)
  - Aim to get your shot at the bottom and top of your full mainsail TWS range.
  - Try to avoid Backwind from the Headsail.

## Record the TWS, TWA, Rig Setting & Sea State

- Wet notes book. (record TWS, TWA, Backstay tension, Rig setting, sea state)
- Photograph the Instruments between each photo.
- Keep a Folder on your computer and label the photos.

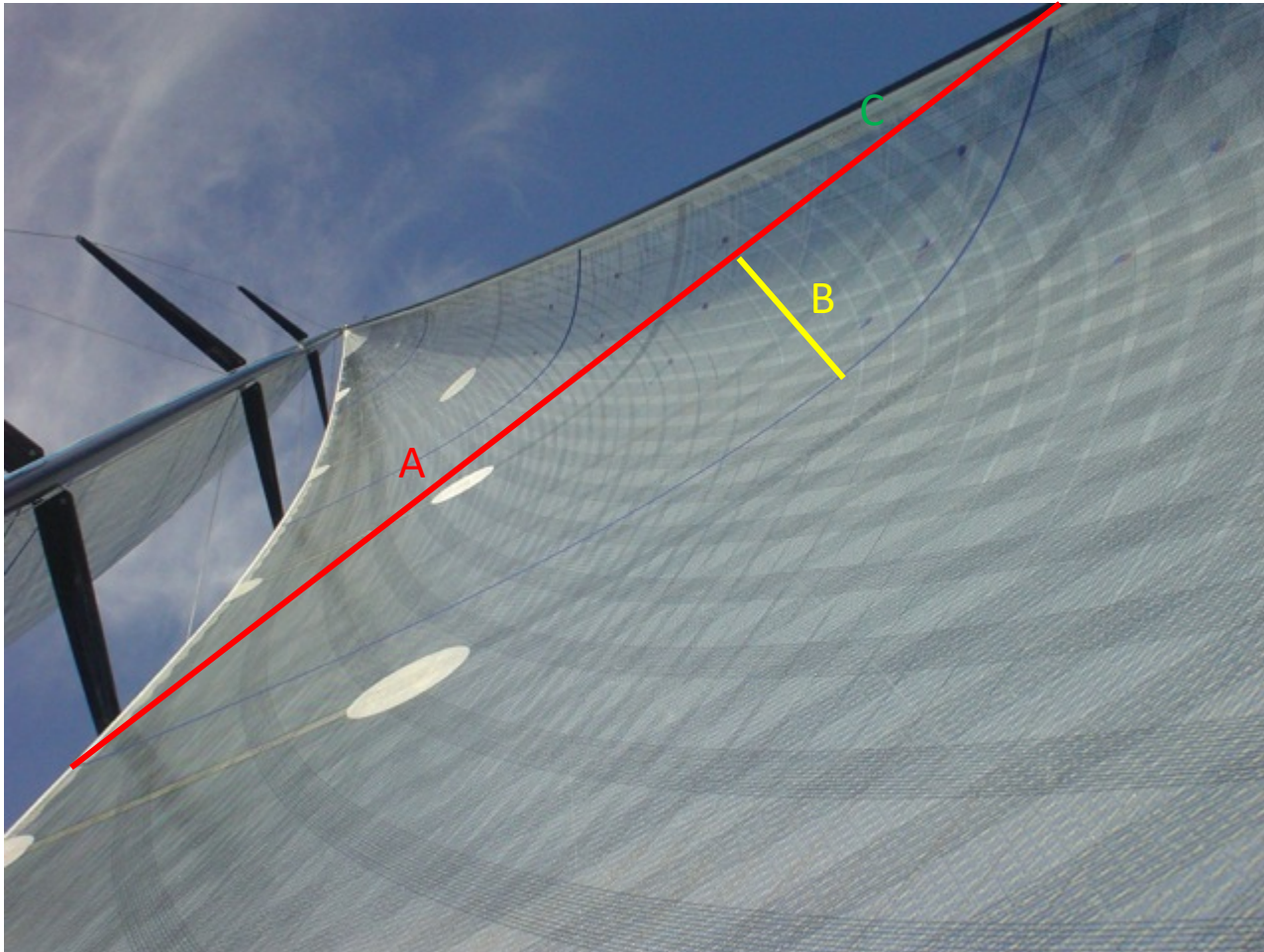
# Measuring the Chord length

- Finding and measuring the Chord lengths @  $\frac{1}{4}$ ,  $\frac{1}{2}$  &  $\frac{3}{4}$  heights.



# Measuring The Maximum Draft

- Finding the deepest point from the chord line



# Calculating the Camber and Draft Position

- Measure the chord length in cm's. = **A**
- Measure the Depth in cm's. = **B**
- Measure the Draft position back from the Luff. = **C**
  
- **B ÷ A** = Camber.  
 $2.75 \div 21.5 = 0.127$  i.e. 12.7% camber
  
- **C ÷ A** = Draft Position.  
 $7 \div 21.5 = 0.325$  i.e. 32.5% Draft Position

# Twist, Entry and Exit

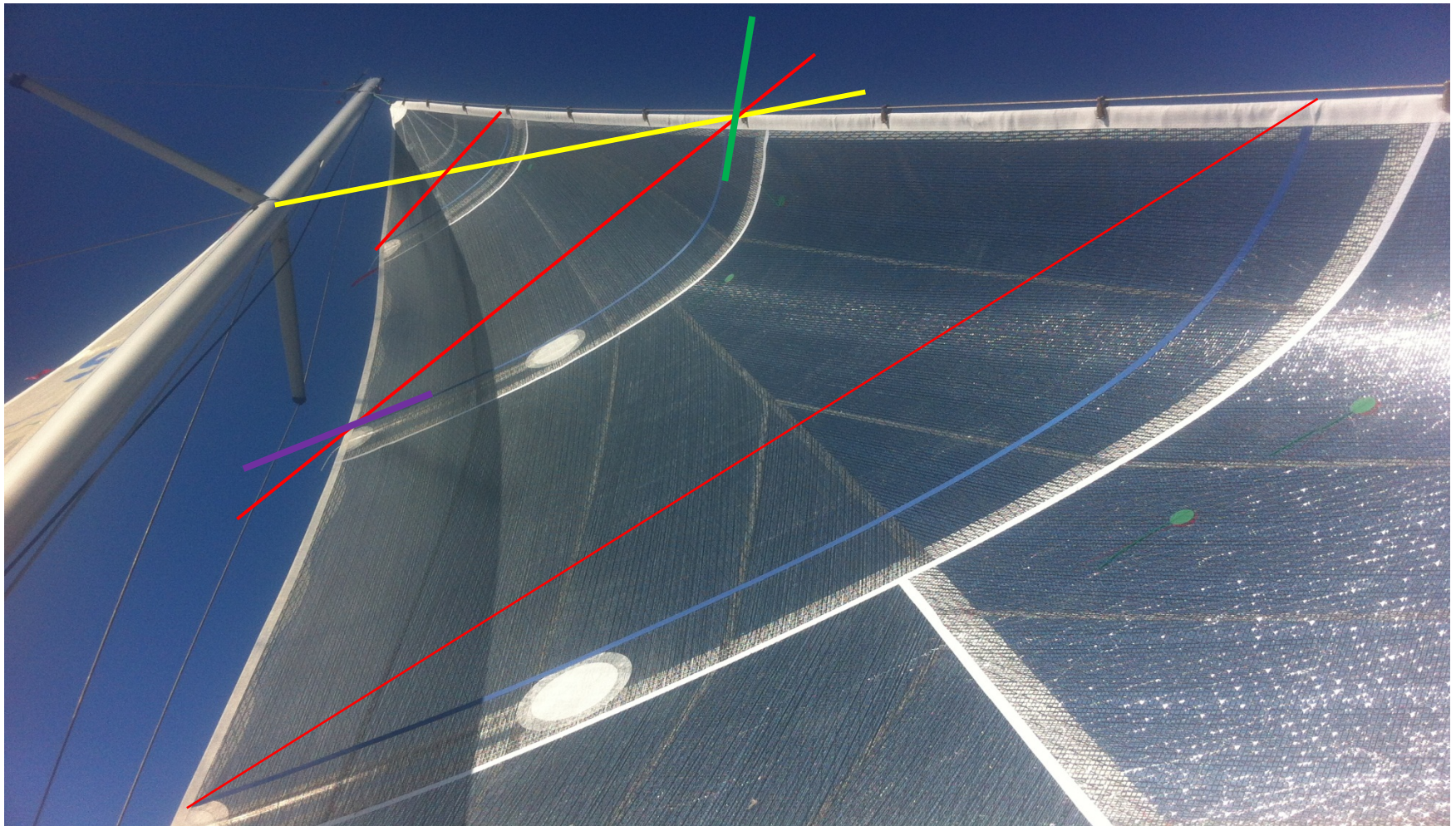
- Twist is measured in degrees relative to the centreline of the yacht or boom angle.

— Centreline

— Chord

— Entry

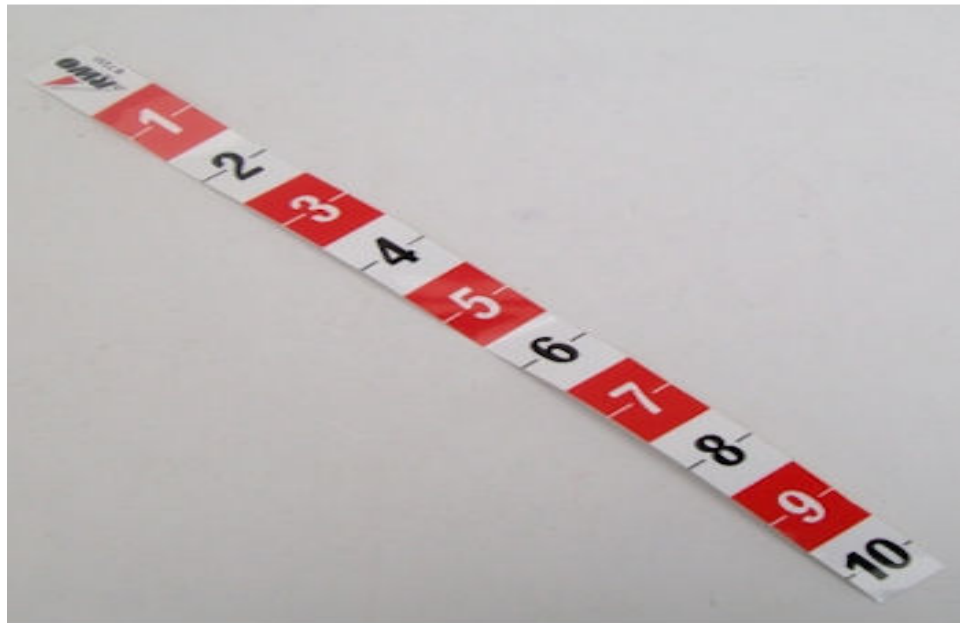
— Exit





# Marking Your Fast Settings

- Spreader Marks
- Halyards marks
- Lead Position
- Backstay/Runner Tensions
- Rig Tension



Take Notes and Record each sails Halyard and lead position.

# Computer Sail Scanning

LMR11knts.pdf - Adobe Reader  
 File Edit View Window Help

Tools Sign Comment

Sign In

▼ Export PDF Files

Adobe ExportPDF  
 Convert PDF files to Word or Excel online.

Select PDF File:  
 LMR11knts.pdf  
 1 file / 389 KB

Convert To:  
 Microsoft Word (\*.docx)

Recognize Text in English(U.S.)  
 Change

Convert

► Create PDF Files

► Send Files

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*Advanced Sail Analysis Software*

File Name: LMR 11knts.JPG

15:27 25/SEP/2012

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SailType: HEAD	Height	CAMBER	DRAFT	TWIST	ENTRY	EXIT	FORE_CAM	BACK_CAM
	25.0	13.8	36.7	16.4	57.2	-4.6	81.5	69.6
	30.0	18.3	40.6	24.4	64.5	-1.2	78.9	69.2
	75.0	19.0	42.0	32.3	70.0	2.5	75.9	68.6



Thankyou for attending! Good Luck & Fast Sailing.  
Aaron Cole – North Sails Australia