

SAILCLOUD

www.thesailcloud.com

The Team



Grant "Fuzz" Spanhake

GRANT "FUZZ" IS A PROFESSIONAL SAILING COACH TO THE STARS.

WITH SIX AMERICAS CUP CAMPAIGNS AND FOUR ROUND-THE-WORLD RACES TO HIS NAME, FUZZ IS EXPERIENCED IN DESIGNING AND TRIMMING SAILS TO WIN SOME OF THE MOST COVETED TROPHIES IN THE SPORT OF SAILING.

TODAY, YOU'LL CATCH FUZZ COACHING THE TOP TEAMS IN THE TP52, MAXI 72, J70, AND OLYMPIC CIRCUITS.

The Team

McKenzie "Makka" Wilson

MCKENZIE "MAKKA" IS A PROFESSIONAL SAILING COACH AND PERFORMANCE ANALYST.

A SELF-PROFESSED SAILING NERD, MCKENZIE WORKS WITH TEAMS TO COMBINE MULTIPLE DATA SOURCES TO PROVIDE DATA-DRIVEN INSIGHTS INTO SAILING PERFORMANCE. LOOKING TO BE ON THE CUTTING EDGE OF TECHNOLOGY, MCKENZIE WAS ONE OF THE FIRST TO BRING DRONES ON THE WATER AND IS ALWAYS EXPLORING NEW TOOLS TO ADD TO HER COACHING ARSENAL.

MCKENZIE CURRENTLY RUNS THE SAILING YACHT RESEARCH FOUNDATION AND WORKS WITH TEAMS IN THE WALLY AND J70 CLASSES.



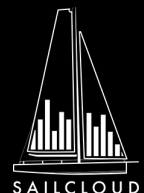
Why did we build it?

Collecting data is important.
Managing it is even more important.

The Sail Cloud

sphere of cloud-based apps that encourages collaboration and accelerates ins

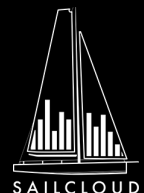
- User friendly design
- Convenient access to your data
- Scalable to any team's needs



Sail Scan

Sail Data Management Made Easy


- Web application; mobile responsive
- Upload, measure, and compare sail setup
- Automatically link performance data and scans



Visibility into your entire fleet

SailScan

29er




Name: 29er

Type: Skiff

Sail Number: USA

SELECT BOAT

Alegre




Name: Alegre

Type: TP-52

Sail Number: 8819R

SELECT BOAT

Cannonball




Name: Cannonball

Type: Maxi 72

Sail Number: ITA 42200

SELECT BOAT

Catapult




Name: Catapult

Type: J-70

Sail Number: 187

SELECT BOAT

Dee's Boat




Name: Dee's Boat

Type: 2.4 meter

Sail Number: 7

SELECT BOAT

I420




Name: I420

Type: Dinghy

Sail Number: 5657

SELECT BOAT

JB Test Boat




Name: JB Test Boat

Type: A Boat

Sail Number: 1

SELECT BOAT

Laser




Name: Laser

Type: Dinghy

Sail Number: 211540

SELECT BOAT

M-32




Name: M-32

Type: catamaran

Sail Number:

SELECT BOAT

Nahita Demo



Name: Nahita Demo

Type: Wally


Sail Number: DD98

SELECT BOAT

Maintain Sail & Rig Inventories

Catapult

Catapult



Sail Number: 187

Boat Type: J-70

Spreaders: 1070mm

Main stripes

1520

2102

2545

Jib Stripes

650

1300

1940

2440 (Bottom foot)

Between stantions: 1685mm

Bottom of hatch: 480mm

Between transom dots: 1650

Mast width: 120mm

Between cleats on cabin top: 960


EDIT

DELETE

Members

Grant Spanhake

Owner



Email: grant_spanhake@gmail.com

Phone: [+14436232140](tel:+14436232140)

+ ADD MEMBER

Sail Inventory

Headsails

Headsail | J1

Doyle jib

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Stripe 4: 89.5 % (0.45 m)

Order #:

ACTIONS

Headsail | J1

Flat head jib

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

J-2

Stripe 1: 7.5 % (2.44 m)

Stripe 2: 25 % (1.94 m)

Stripe 3: 50 % (1.3 m)

Stripe 4: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

J-6

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

LM Prototype

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

Quantum Jib-Marty

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V-6

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V-8

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V8-B

Stripe 1: 7.5 % (2.44 m)

Stripe 2: 25 % (1.94 m)

Stripe 3: 50 % (1.3 m)

Stripe 4: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V8-C

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V8-D

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Headsail | J1

V-9

Stripe 1: 25 % (1.94 m)

Stripe 2: 50 % (1.3 m)

Stripe 3: 75 % (0.65 m)

Order #:

ACTIONS

Mainsails

Mainsail | Mainsail

Charleston main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

CP Main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

Doyle main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

Marblehead Main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

Marblehead main-2

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

Marblehead main-3

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

Miami Main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Mainsail | Mainsail

XCS-1 Main

Stripe 1: 25 % (2.545 m)

Stripe 2: 50 % (2.102 m)

Stripe 3: 75 % (1.52 m)

Order #:

ACTIONS

Automatically merge your performance data & photos

<input type="checkbox"/>	Image Name	Tags	Sails	TWS	TWA	Fst	AWA	AWS	BSP	Deflector
<input type="checkbox"/>	June12_132002_J3A.JPG	Sibenik Training	J3-A	12.82	-44.39	15.29	-23.56	22.42	11.40	81.76
<input type="checkbox"/>	June13_125827_j3-2.jpg	Sibenik Training	J3-A M1	14.72	-145.85	3.63	-76.38	8.51	14.18	60.73
<input type="checkbox"/>	IMG_0321.jpg	Sibenik Training	M1	18.29	-41.93	15.32	-26.31	27.57	11.11	87.34

Records per page: 25 1-3 of 3 < >

Access all your photos in one convenient location

Catapult

Columns

<input type="checkbox"/>	Image Name	Tags	Date	Sails
<input type="checkbox"/>	USA 187 std main	IMG0771.JPG	2016-07-18 17:06:39 -04:00	Miami Main
<input type="checkbox"/>	Doyle main	IMG_5922.jpg	2018-02-19 12:28:53 -05:00	Doyle main
<input type="checkbox"/>	Charleston main 2018.jpg		2018-04-10 14:58:34 +00:00	Charleston main
<input type="checkbox"/>	Full entry flatter head.jpg		2018-04-10 15:06:44 +00:00	Flat head jib
<input type="checkbox"/>	V-6.JPG		2018-05-30 13:40:09 +00:00	V-6
<input type="checkbox"/>	XCS-1.JPG		2018-05-31 12:12:03 +00:00	XCS-1 Main
<input type="checkbox"/>	J-6.JPG		2018-05-31 12:13:41 +00:00	J-6
<input type="checkbox"/>	Cedar point main.JPG		2018-05-31 12:16:19 +00:00	CP Main
<input type="checkbox"/>	Doyle Jib.JPG		2018-05-31 12:16:49 +00:00	Doyle jib
<input type="checkbox"/>	XCS-3.JPG	XCS-3.JPG	2018-05-31 12:46:03 +00:00	XCS-3 Main
<input type="checkbox"/>	IMG_0360.jpg	Leech twist	2018-06-28 12:27:55 +00:00	
<input type="checkbox"/>	V-9:Tight halyard.jpg	Tight Halyard	2018-06-29 14:58:00 +00:00	V-9
<input type="checkbox"/>	V-9: Loose halyard.jpg	Loose halyard	2018-06-29 14:58:34 +00:00	V-9
<input type="checkbox"/>	V-9.jpg		2018-06-29 15:13:09 +00:00	V-9
<input type="checkbox"/>	246 mast rake.jpg	246 mast rake	2018-06-30 11:43:47 +00:00	
<input type="checkbox"/>	187 mast rake.jpg	187 mast rake	2018-06-30 11:44:39 +00:00	
<input type="checkbox"/>	IMG_0584.jpg	V-9 leech twist	2018-06-30 13:06:16 +00:00	
<input type="checkbox"/>	IMG_0598.jpg	246 leech twist	2018-06-30 13:07:17 +00:00	
<input type="checkbox"/>	V-8.jpg		2018-07-04 13:42:37 +00:00	V-8
<input type="checkbox"/>	XCS-3.jpg		2018-07-04 13:44:31 +00:00	XCS-3 Main
<input type="checkbox"/>	LM jib prototype.jpg		2018-07-04 13:49:25 +00:00	LM Prototype
<input type="checkbox"/>	IMG_3435.jpg		2018-07-05 12:12:28 +00:00	V-8
<input type="checkbox"/>	246 Mast bend	IMG_0818.jpg	2018-07-24 13:22:01 -04:00	Miami Main
<input type="checkbox"/>	187 Mast Bend	IMG_0821.jpg	2018-07-24 13:23:35 -04:00	CP Main
<input type="checkbox"/>	Marblehead mainsail	IMG_0879.jpg	2018-07-24 13:49:43 -04:00	Marblehead Main

Flexible search and filters

FILTER

CLEAR

Date

From:

2018-06-01 00:00:00 -07:00

To:

2018-10-11 00:00:00 -07:00

Tags

Training

Venues

Sibenik

Masts

2018 Mast

Mode

VMG

Sails

M1

Order #

AWA

From:

16

To:

23

AWS

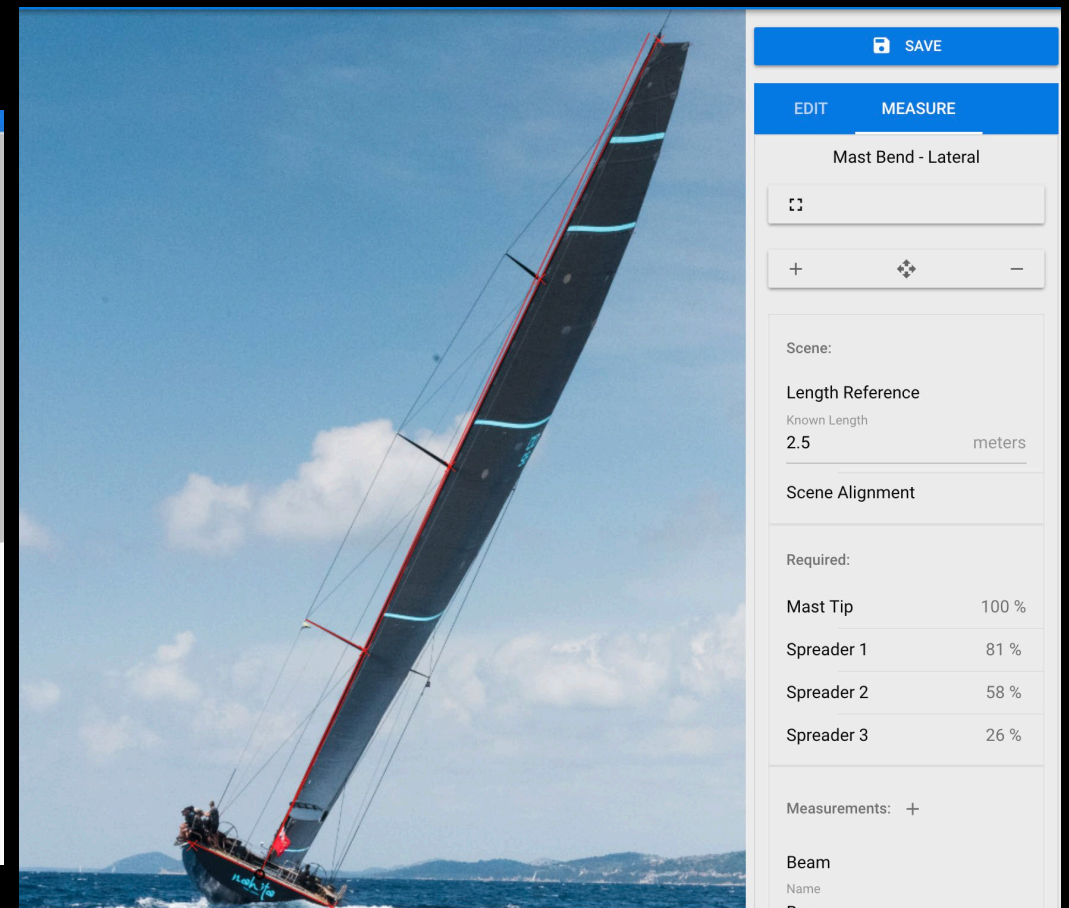
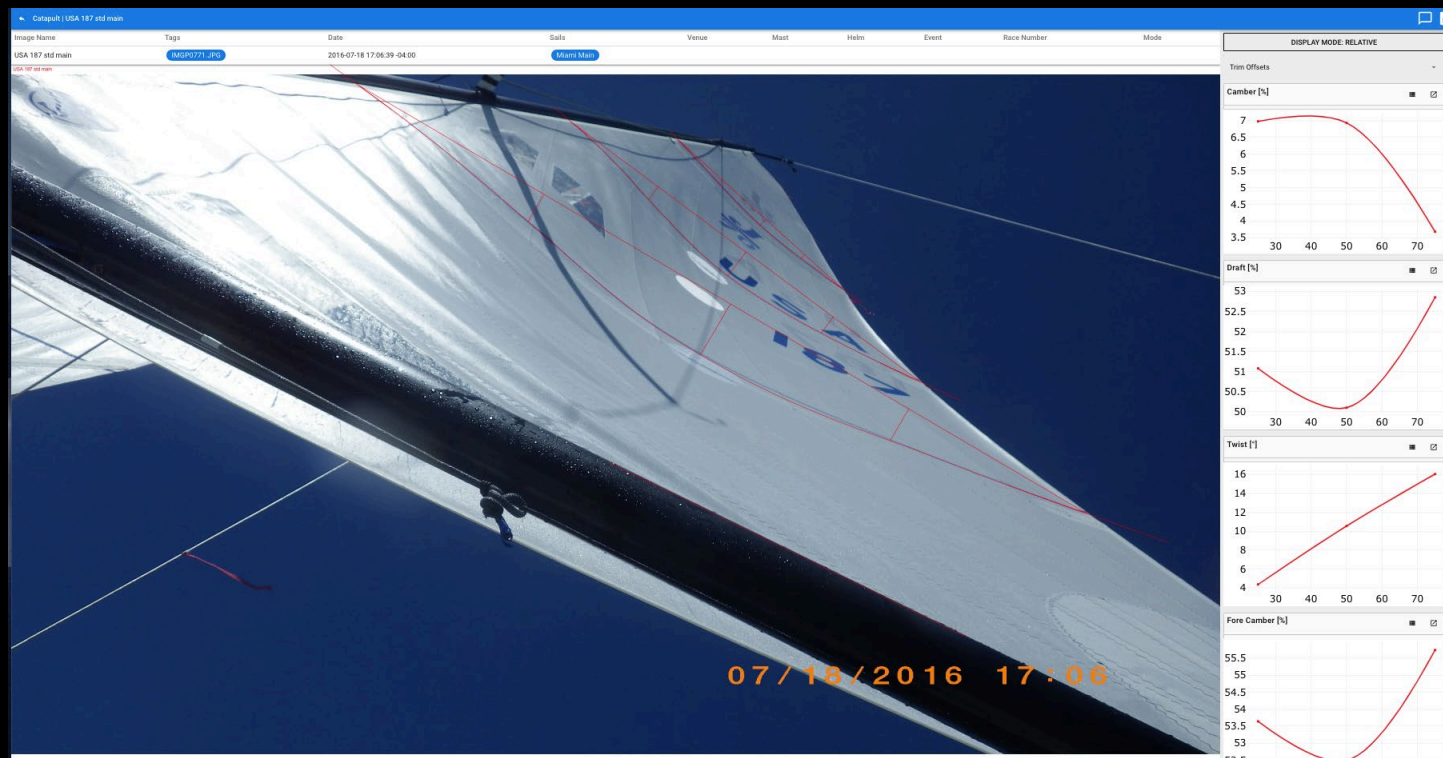
From:

12

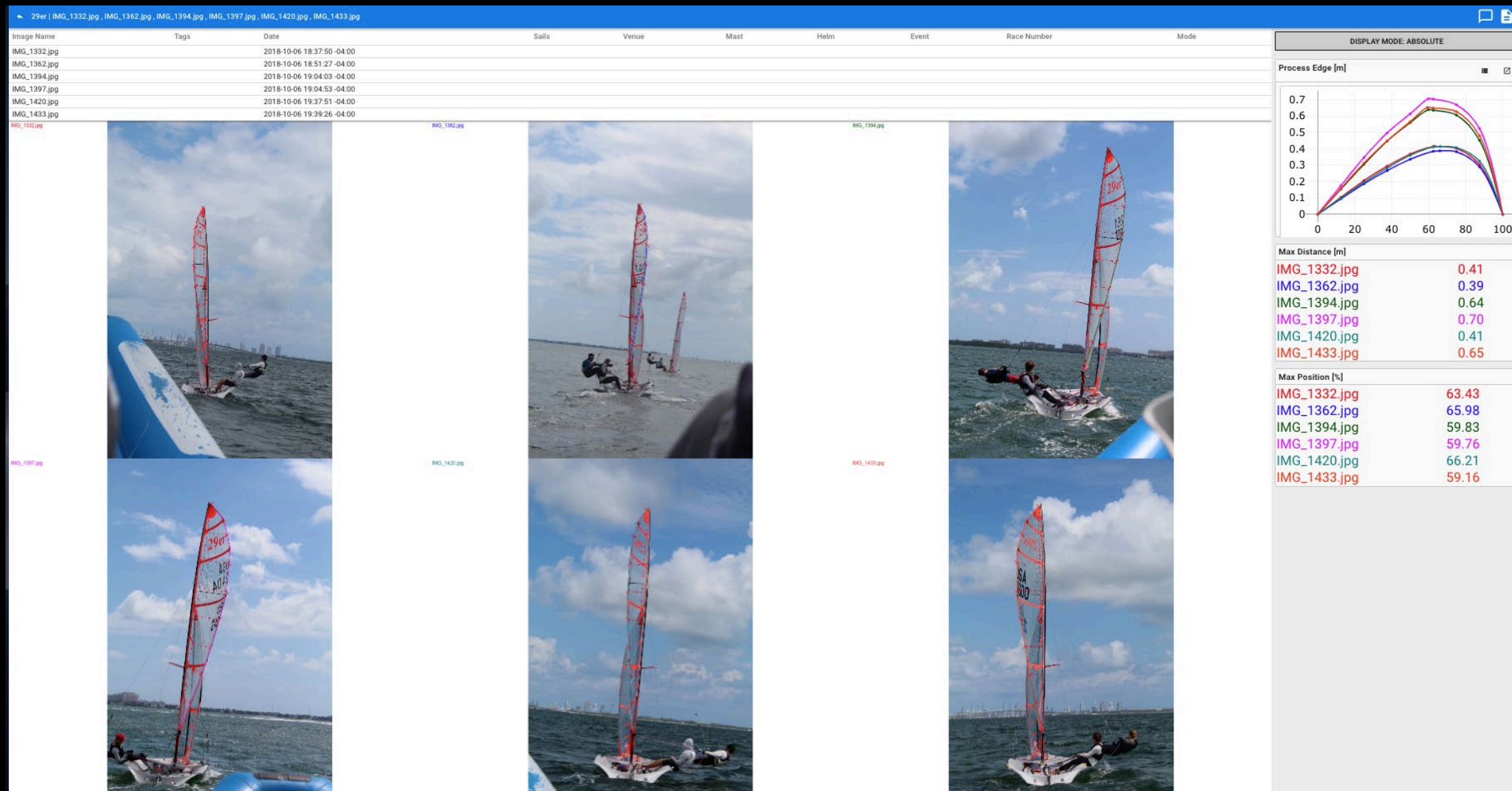
To:

19

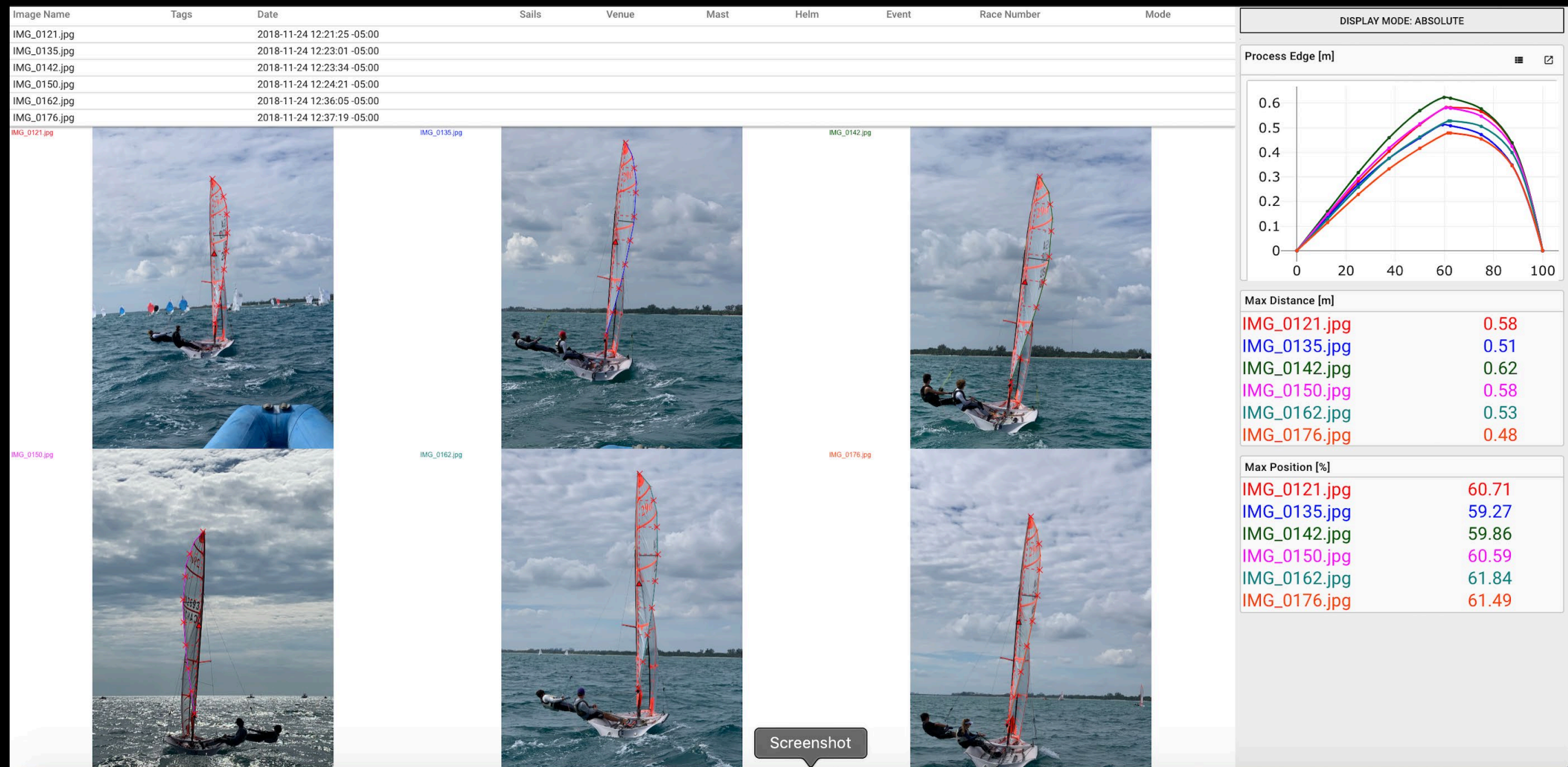
Scan onboard & off the boat photos




Compare sails



Compare sails



Compare sails

 Test Report Header


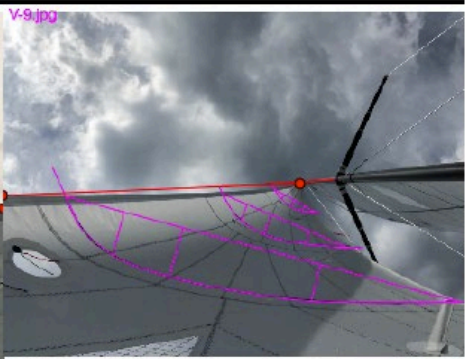
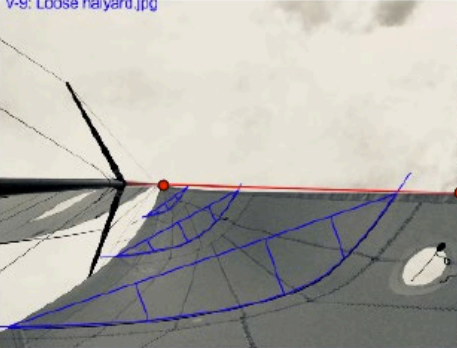
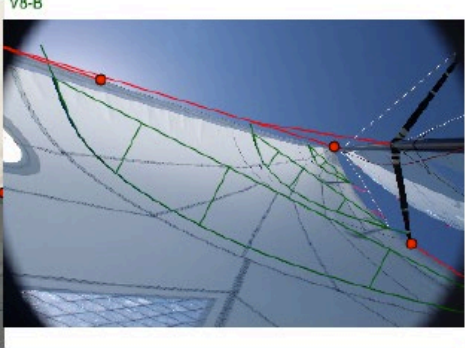





Image	Date	Tags	Sails	Order #
V-9:Tight halyard.jpg	2018-06-29 14:58:00 +00:00	Tight Halyard	V-9	
V-9: Loose halyard.jpg	2018-06-29 14:58:34 +00:00	Loose halyard	V-9	
V-9.jpg	2018-06-29 15:13:09 +00:00		V-9	
V8-B	2018-07-24 13:51:26 -04:00	63. Radian,IMG_0890.jpg	V8-B	

Image	Venue	Mast	Helm	Event	Race #



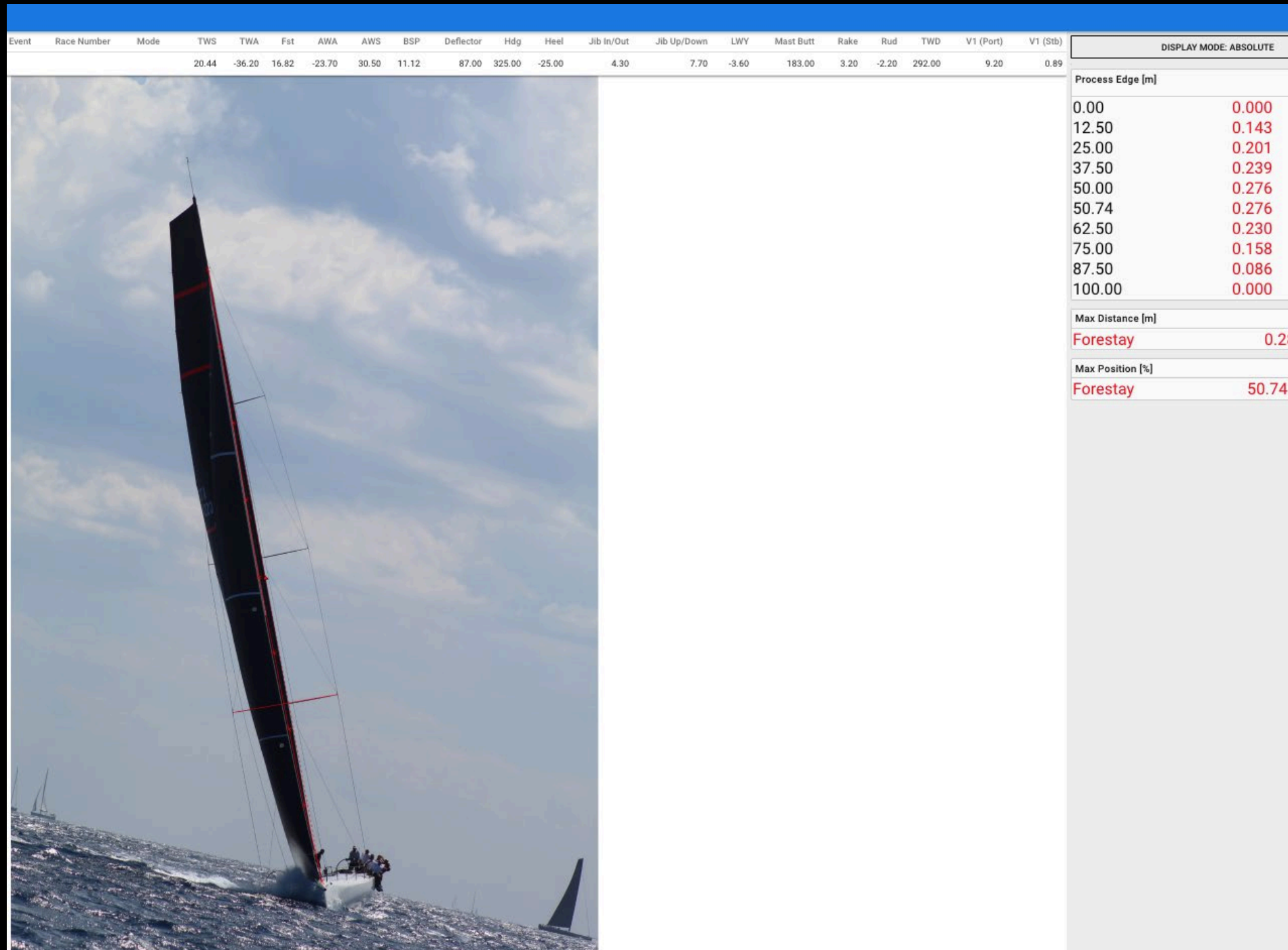



Image	Date	Tags	Sails	Order #
A-1.5 Valencia	2018-09-17 12:28:26 +02:00	IMG_9620.jpg	A-1.5-B	
Platoon A-1.5	2018-09-17 12:28:43 +02:00	IMG_9634.jpg	A-1.5-B	

Overhead photos



Forestay sag



Mast rake, Fore & aft mast bend

SailsVenueMastHelmEventRace NumberMode

Corpus Christi

DISPLAY MODE: ABSOLUTE

Rake

Mast rake.jpg2.91



SailsVenueMastHelmEventRace NumberMode

Corpus Christi

DISPLAY MODE: ABSOLUTE

Process Edge [m]

0.00	0.000
12.50	0.037
25.00	0.061
37.50	0.072
50.00	0.074
54.27	0.075
62.50	0.060
75.00	0.047
87.50	0.027
100.00	0.000

Max Distance [m]

Mast bend.jpg0.07

Max Position [%]

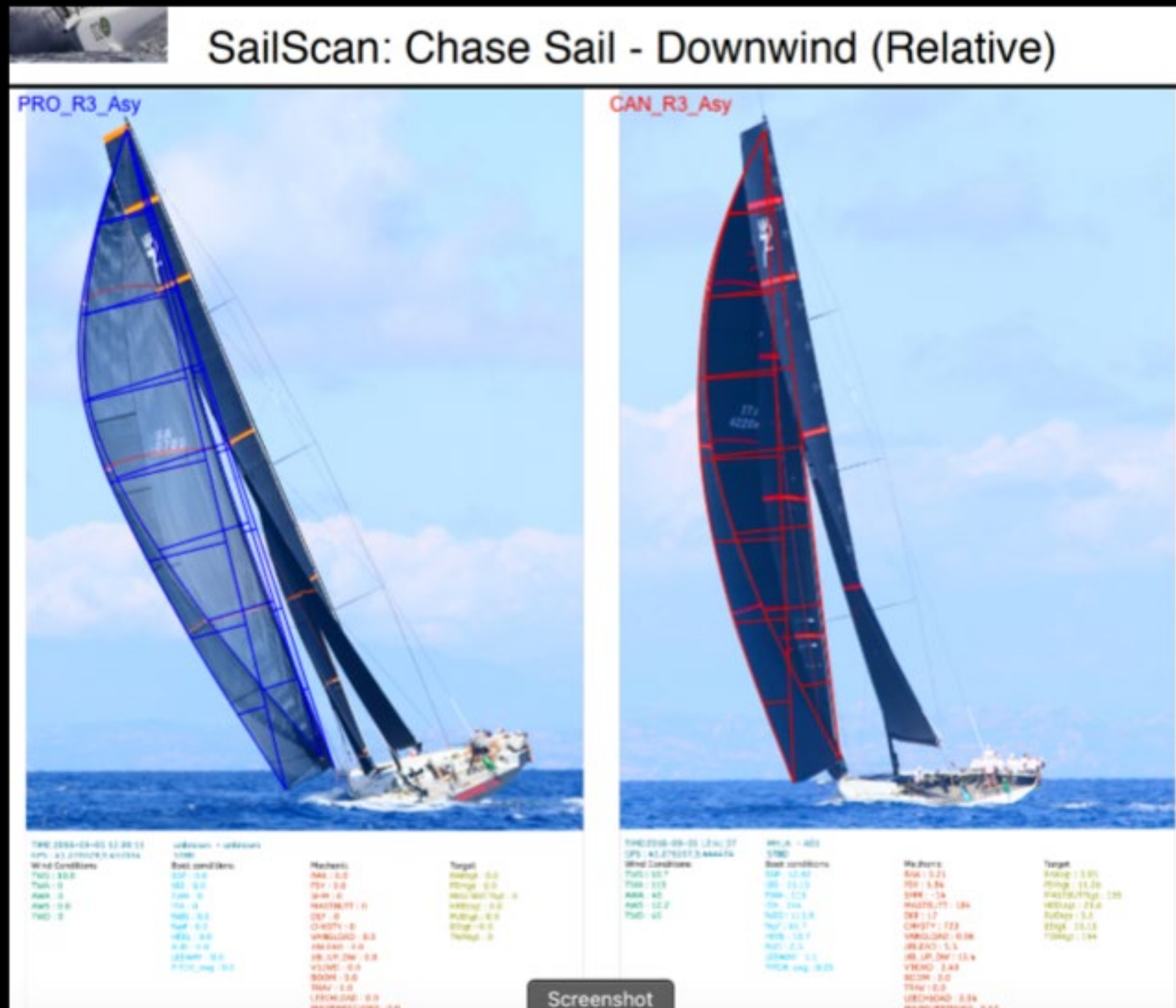
Mast bend.jpg54.27



Mast bend sideways



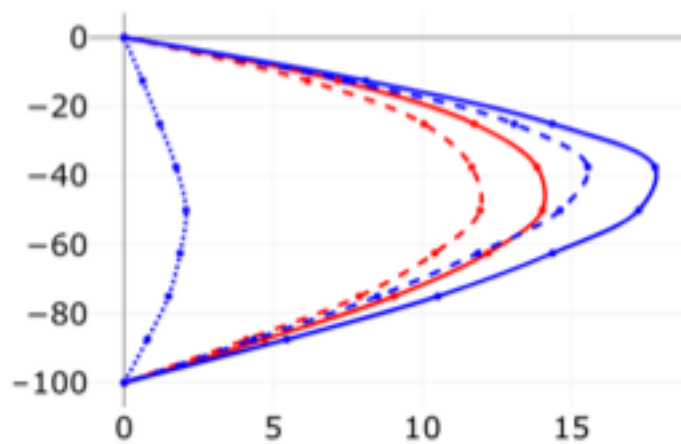
Measure downwind sails



Downwind results

Curves

Sail Curves



Position	Miter	Leech	Luff	Miter	Leech
-0.00	0.00	0.00	0.00	0.00	0.00
-12.50	6.16	7.18	0.62	7.42	8.11
-25.00	10.05	11.75	1.19	13.08	14.36
-37.50	11.66	13.85	1.74	15.56	17.81
-50.00	11.94	14.03	2.07	14.62	17.26
-62.50	10.42	12.20	1.87	11.88	14.37
-75.00	7.88	9.06	1.49	8.50	10.52
-87.50	4.10	4.70	0.77	4.35	5.45
-100.00	0.00	0.00	0.00	0.00	0.00

Max Depth

Image	Curve	Depth
CAN_R3_Asy	Miter	12.04
CAN_R3_Asy	Leech	14.13
PRO_R3_Asy	Luff	2.08
PRO_R3_Asy	Miter	15.59
PRO_R3_Asy	Leech	18.05

Max Depth Position


Image	Curve	Position
CAN_R3_Asy	Miter	-46.60
CAN_R3_Asy	Leech	-45.10
PRO_R3_Asy	Luff	-48.80
PRO_R3_Asy	Miter	-39.30
PRO_R3_Asy	Leech	-41.30

Screenshot

Heel angle

SailsVenueMastHelmEventRace NumberMode

13:14:30 +00:00Corpus Christi



Screenshot


DISPLAY MODE: RELATIVE

Heel

Leeward heel.jpg6.41

SailsVenueMastHelmEventRace NumberMode

3:15:44 +00:00Corpus Christi



DISPLAY MODE: RELATIVE

Heel

Winward heel.jpg-1.16


Heel angle



Heel Angles

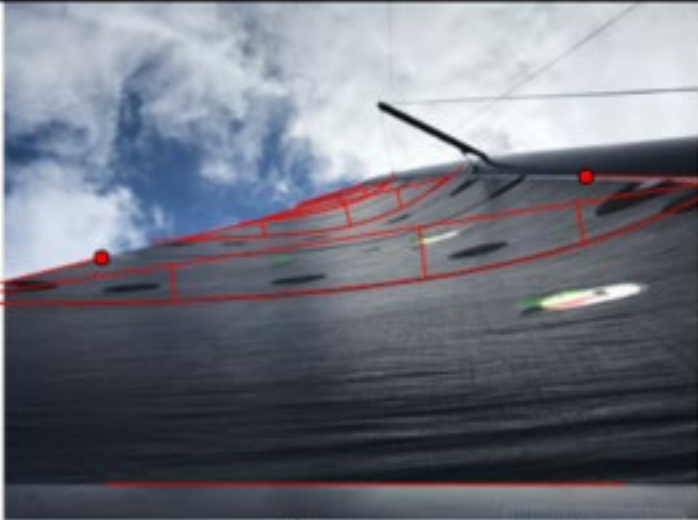
Image	Name	Angle
IMG_0041.jpg	Heel	4.551
IMG_0046.jpg	Heel	-0.329
IMG_0052.jpg	Heel	1.464
IMG_0059.jpg	Heel	3.203

Bad images



Test Report Header

M2



M-2

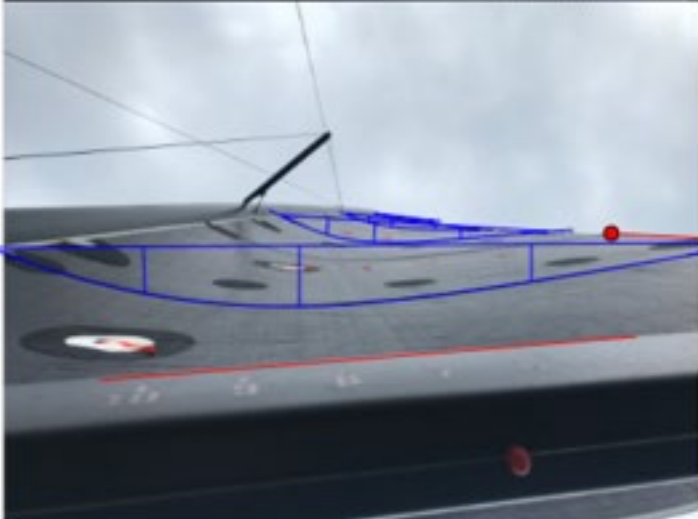
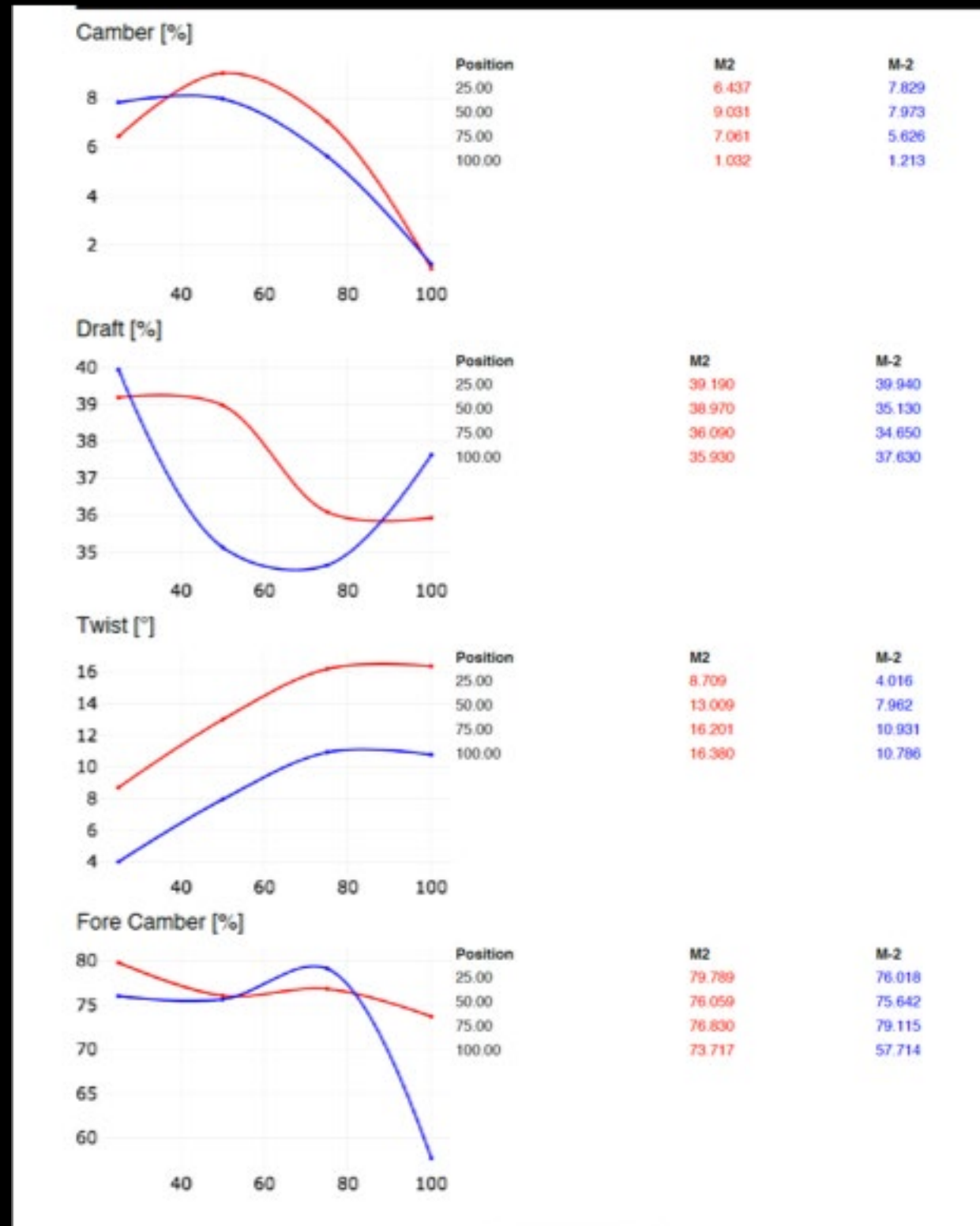
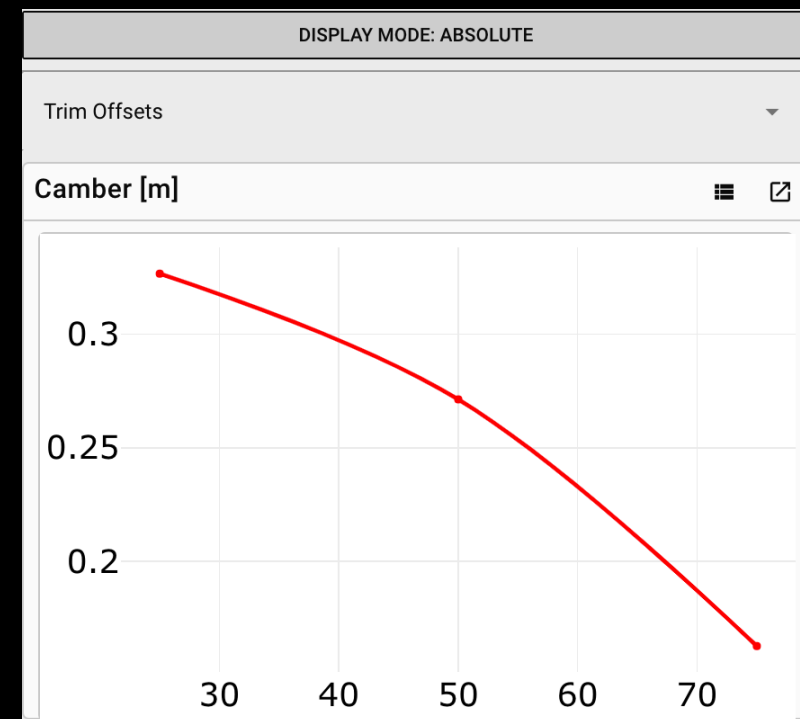
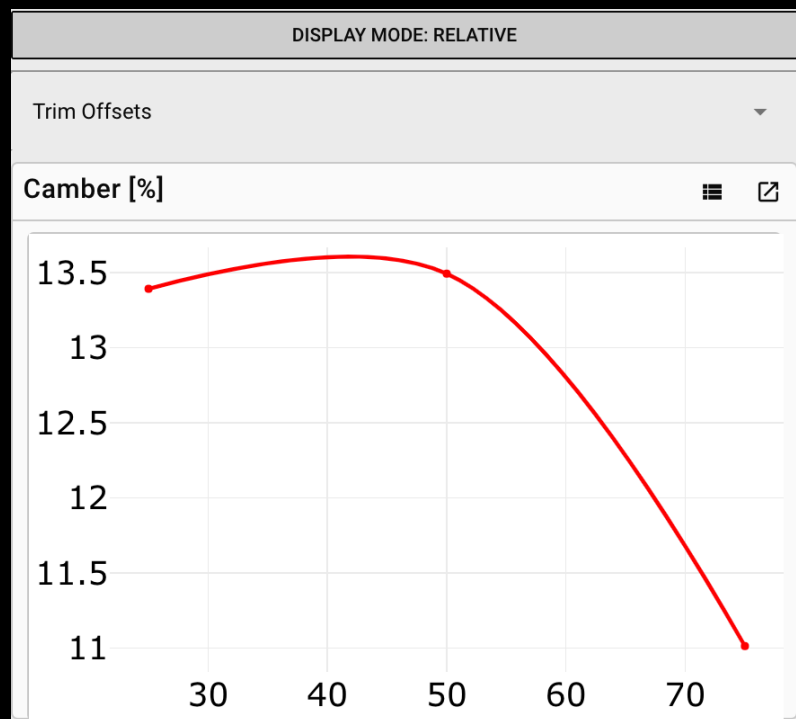
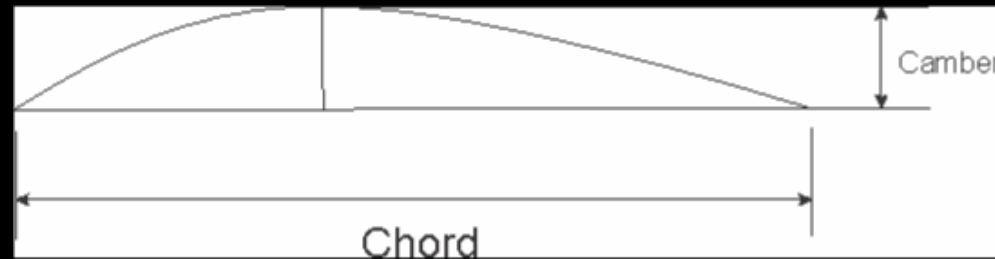


Image	Date	Tags	Sails	Order #
-------	------	------	-------	---------

Bad image results



Results-Camber



DISPLAY MODE: RELATIVE

Trim Offsets

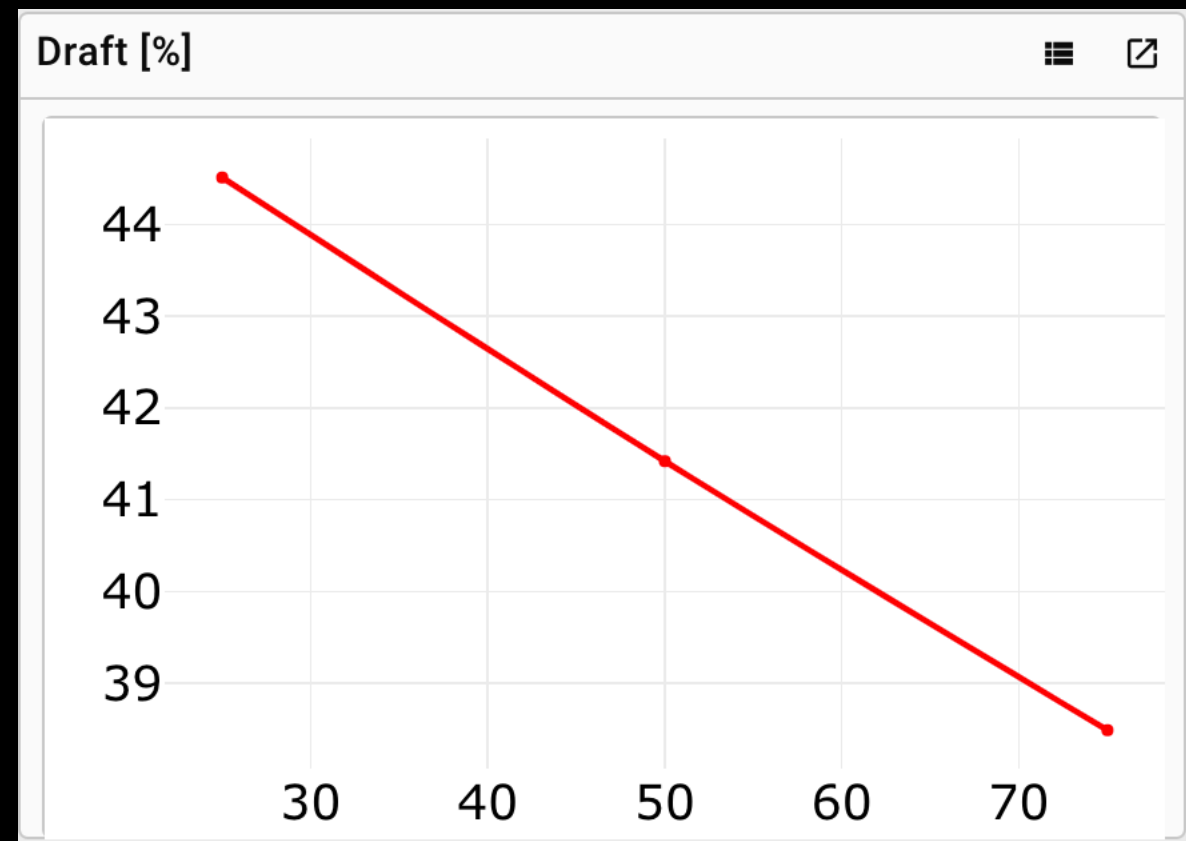
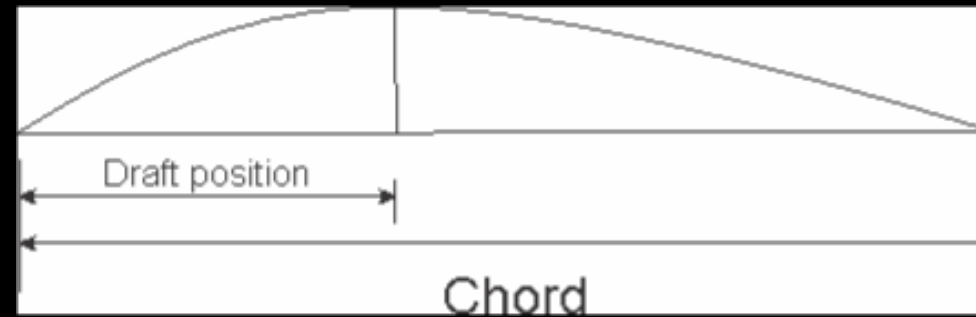
Camber [%]	
25.00	13.393
50.00	13.494
75.00	11.013

DISPLAY MODE: ABSOLUTE

Trim Offsets

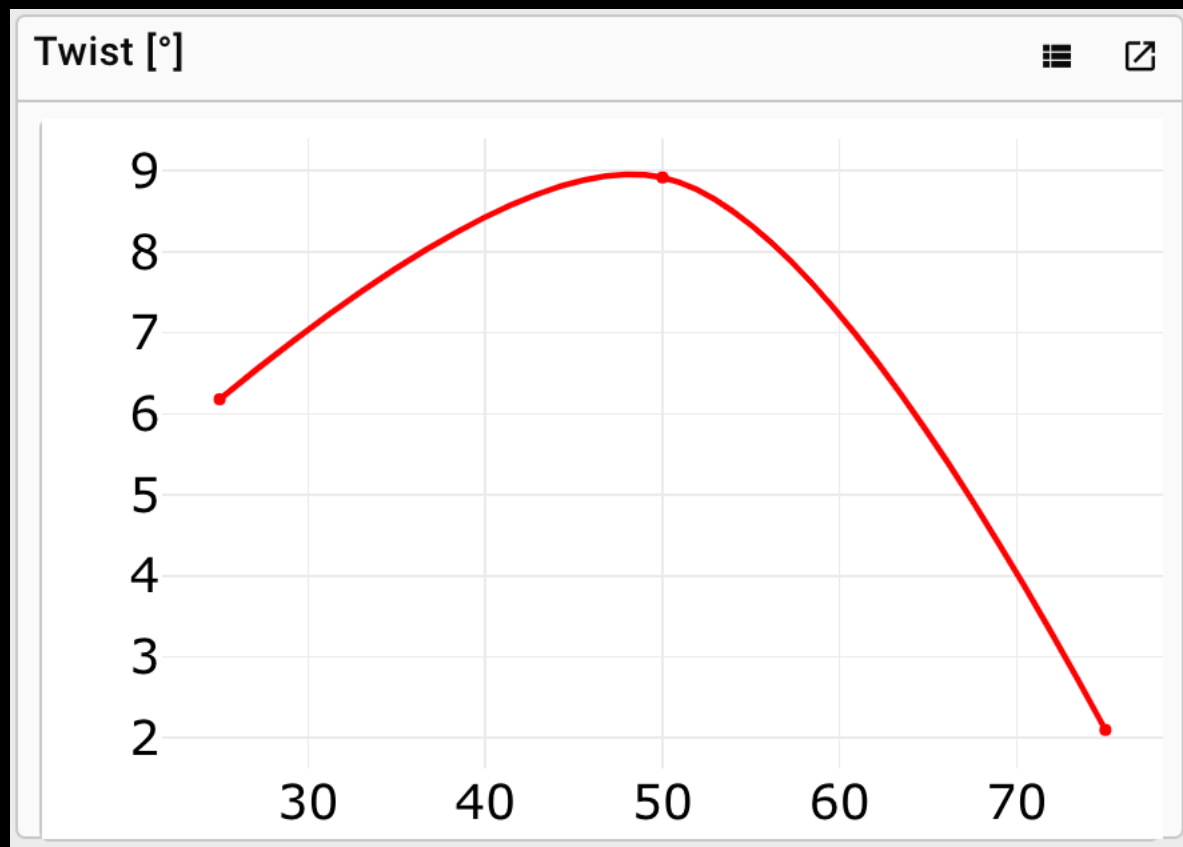
Camber [m]	
25.00	0.327
50.00	0.271
75.00	0.163

Results- Draft position



Draft [%]	
25.00	44.510
50.00	41.420
75.00	38.490

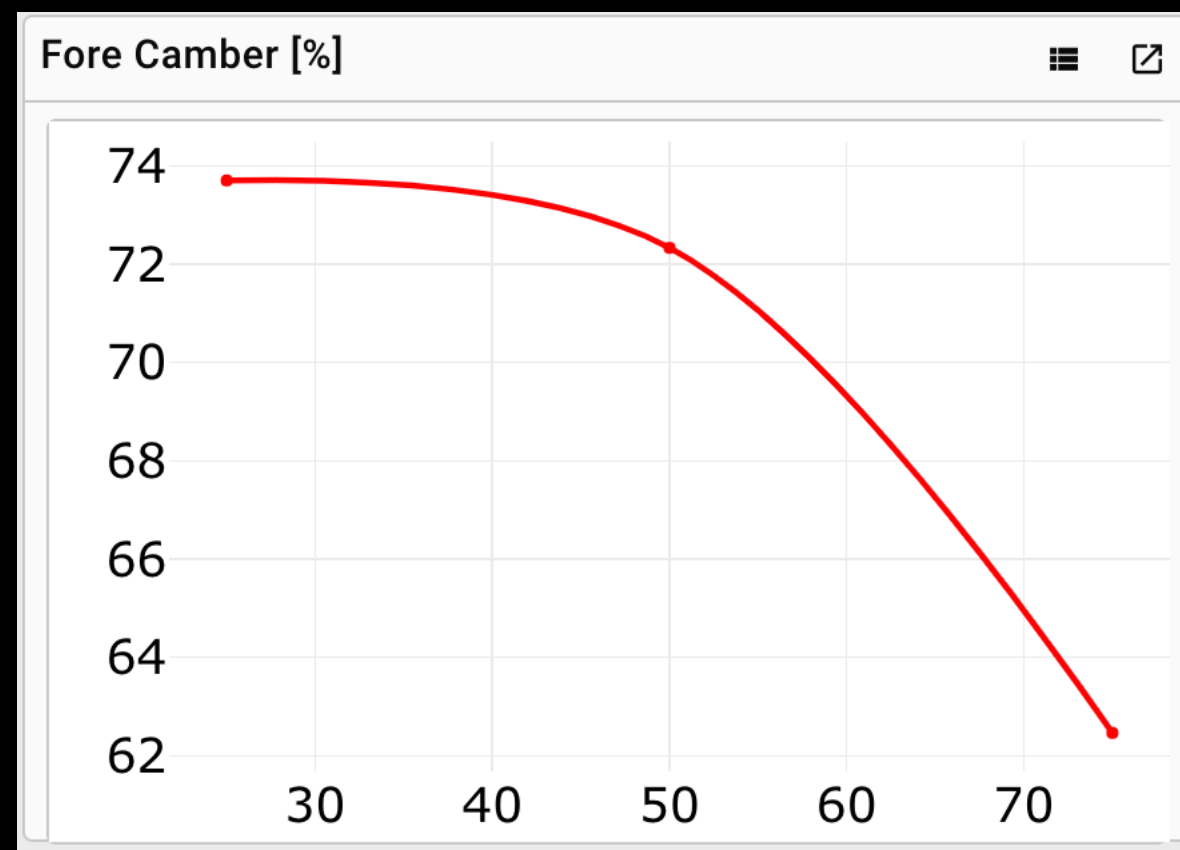
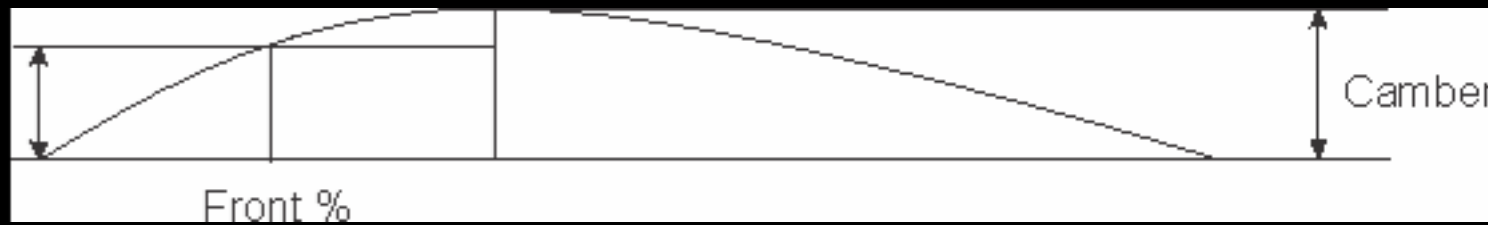
Results- Twist



Twist [°]	
25.00	6.180
50.00	8.918
75.00	2.097

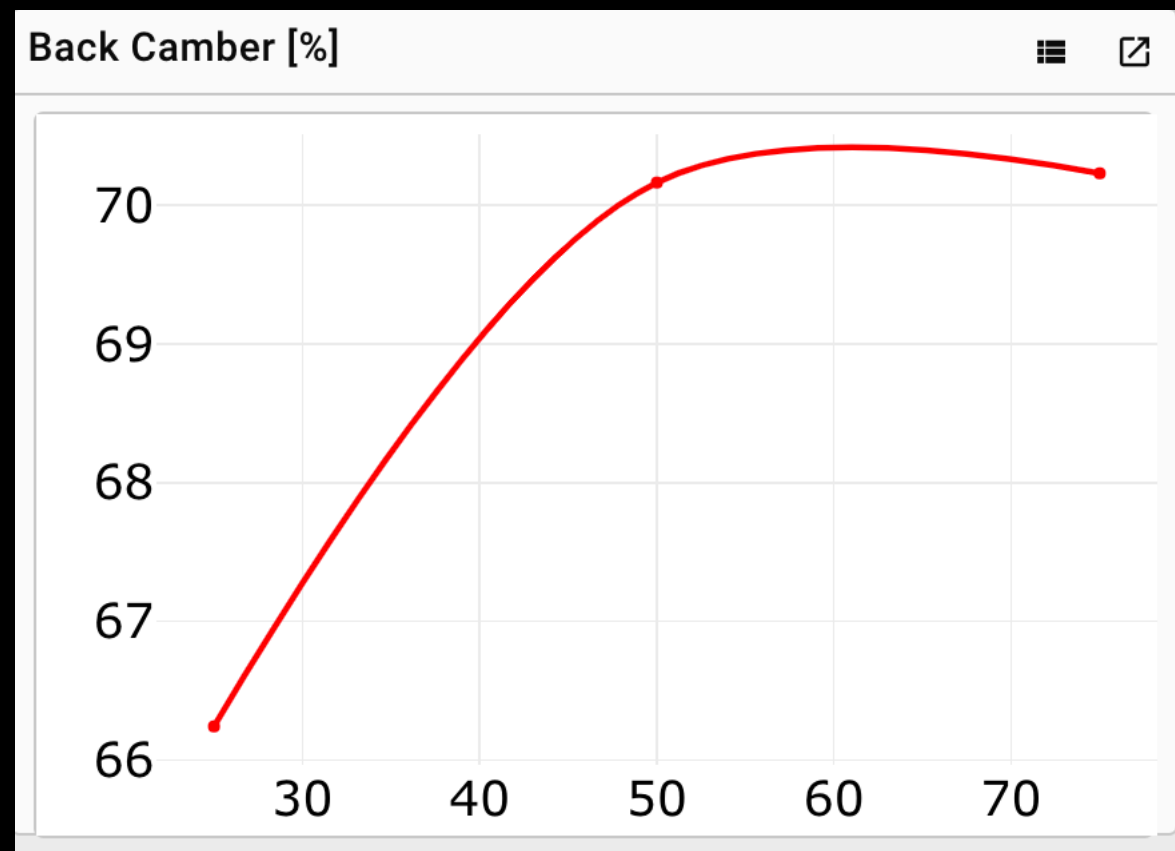
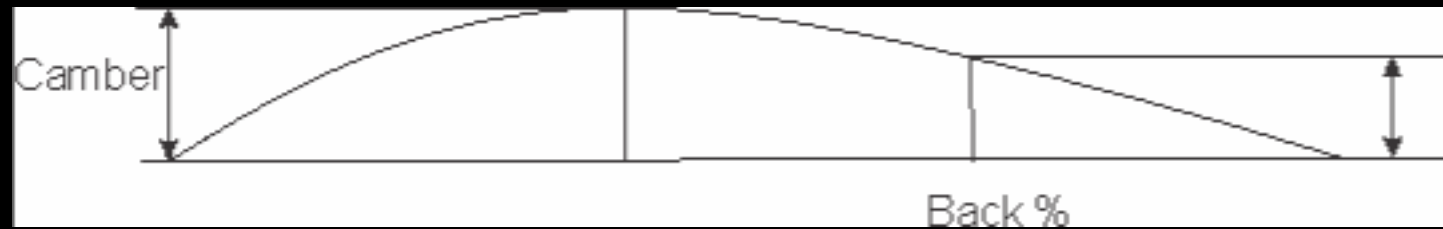


Results- Front camber



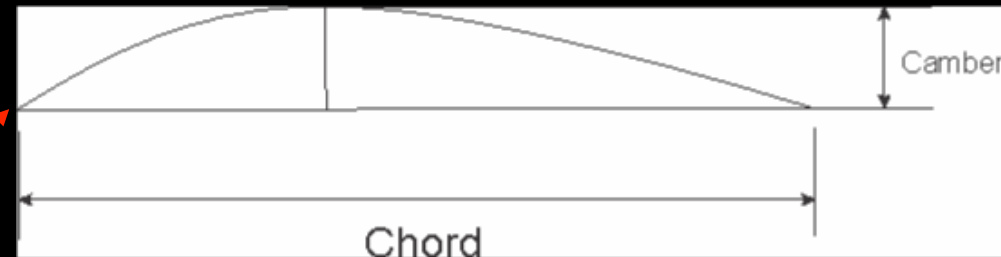
Fore Camber [%]	
25.00	73.702
50.00	72.331
75.00	62.465

Results- Back camber

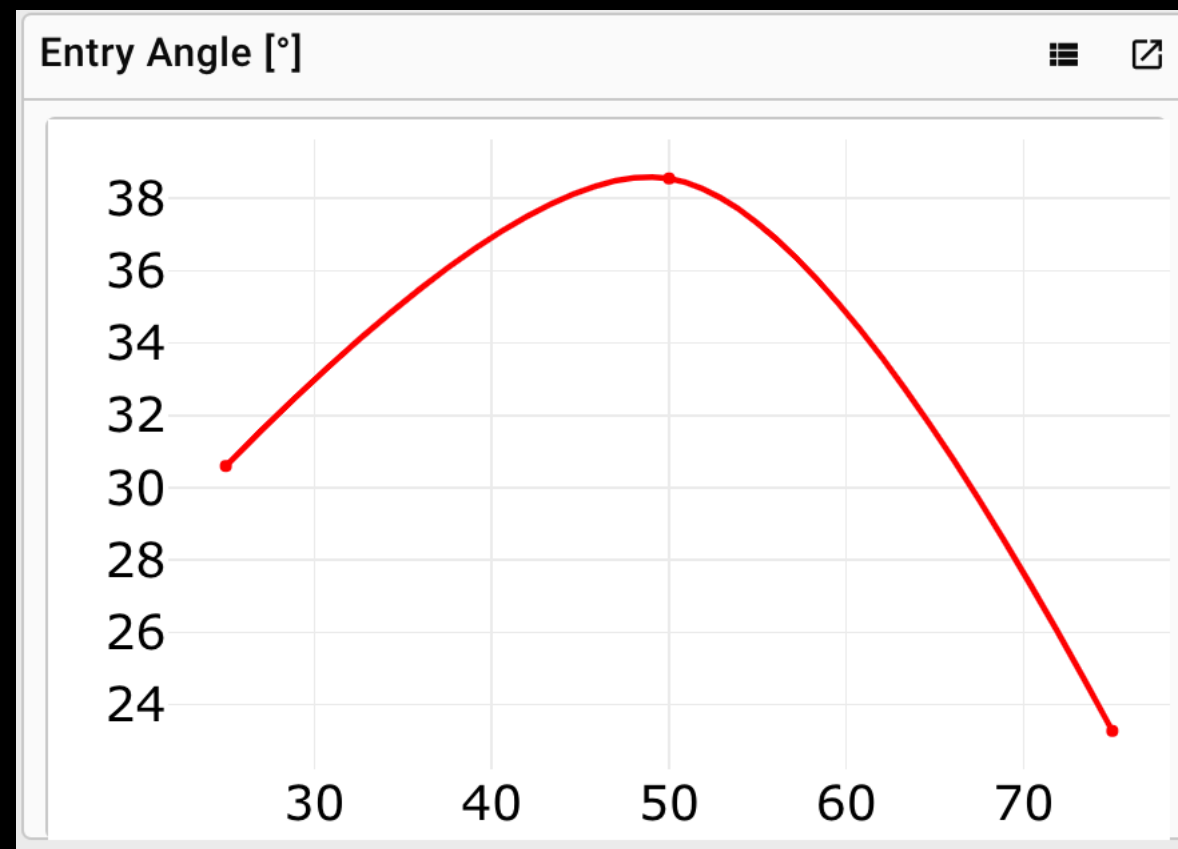


Back Camber [%]	
25.00	66.244
50.00	70.163
75.00	70.229

Results- Front entry

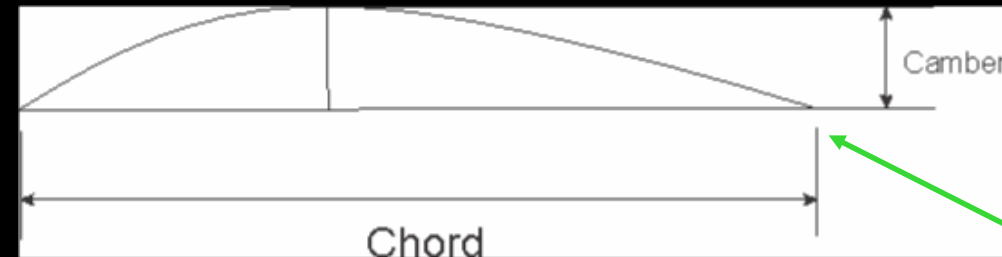


Entry angle

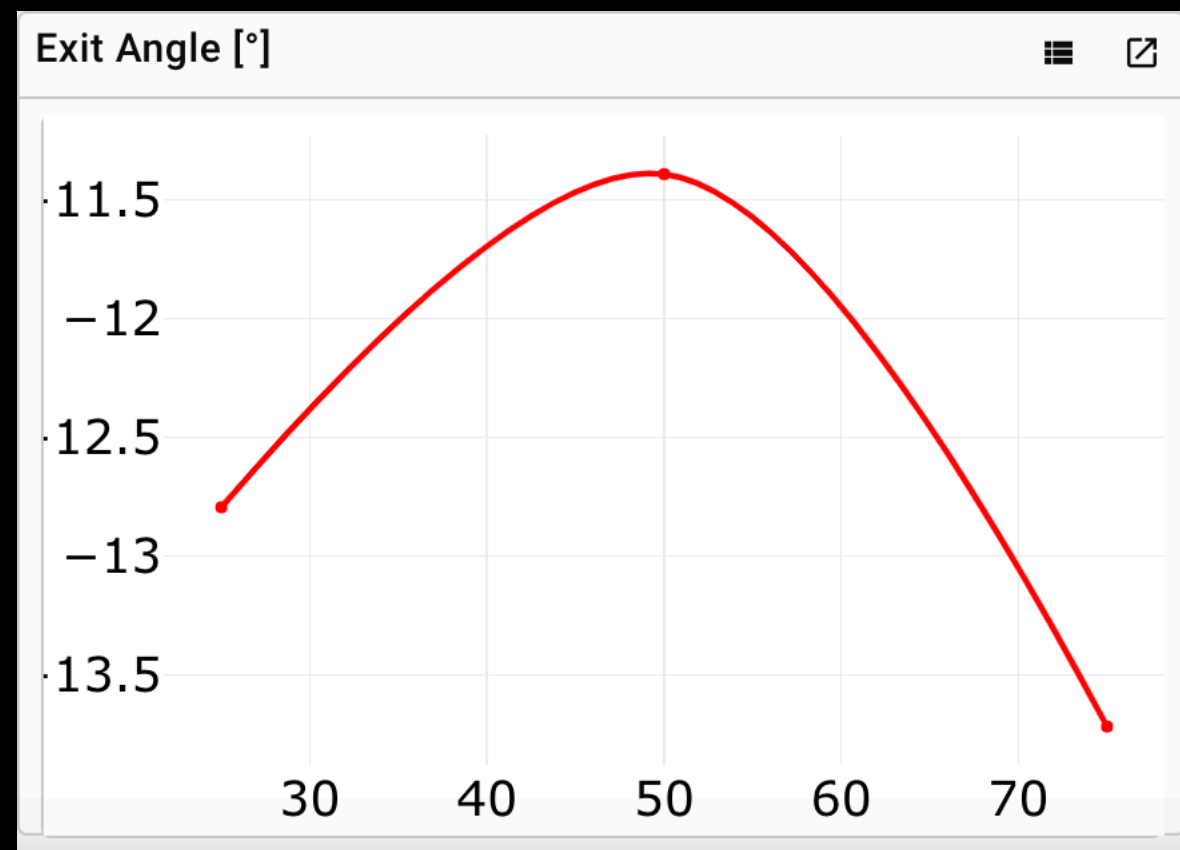


Entry Angle [°]	
25.00	30.600
50.00	38.551
75.00	23.275

Results- Back exit



Exit angle



Exit Angle [°]	
25.00	-12.795
50.00	-11.392
75.00	-13.718

What can it do?

- Scan draft stripes
- Overlay of draft stripes without the image
- Results in relative & absolute numbers
- Compare unlimited number of sails
- Measure fore & aft & lateral mast bend
- Measure leech's in relative & absolute numbers
- Measure miters
- Measure sheet distance
- Measure mast rake
- Measure heel angle (Multiple boats)
- Results in PDF format

Who is using it ?

Sailmaking companies testing the product now

- **North sails (28)**
- **Ullman sails (1)**
- **Doyle sails (2)**
- **Quantum sails (2)**
- **Evolution sails (2)**
- **Lidgard Sails (3)**
- **ODP (2)**

67 Pro Sailors & sail designers

3 x 100' Race boats

3 x TP-52 Teams

USA, Europe, Australia, New Zealand

Sample Annual Subscriptions

EDUCATION LEVEL

- Includes for 20 photos
- Scan & Compare Photos
- Upgrade storage options

MID LEVEL

- Includes storage for 50 photos
- Scan & Compare Photos
- Manage Boat Folder team members (admin & viewer)
- Upgrade storage options

PRO LEVEL

- Includes storage for 100 photos
- Scan & Compare Photos
- Manage Boat folder team members (admin & viewer)
- Upgrade storage options

2019 projects

Sail scan

- Auto-assist scanning draft stripes and sail edges
- Rotatable 3D image of draft stripes
- A stand alone product where a internet connection is not required
- Corporate version that can compare sails from different boats

Tracking

- Boat & sail performance evaluated on boats without instrumentation.
- On the water live results.
- Cloud based auto analysis.

