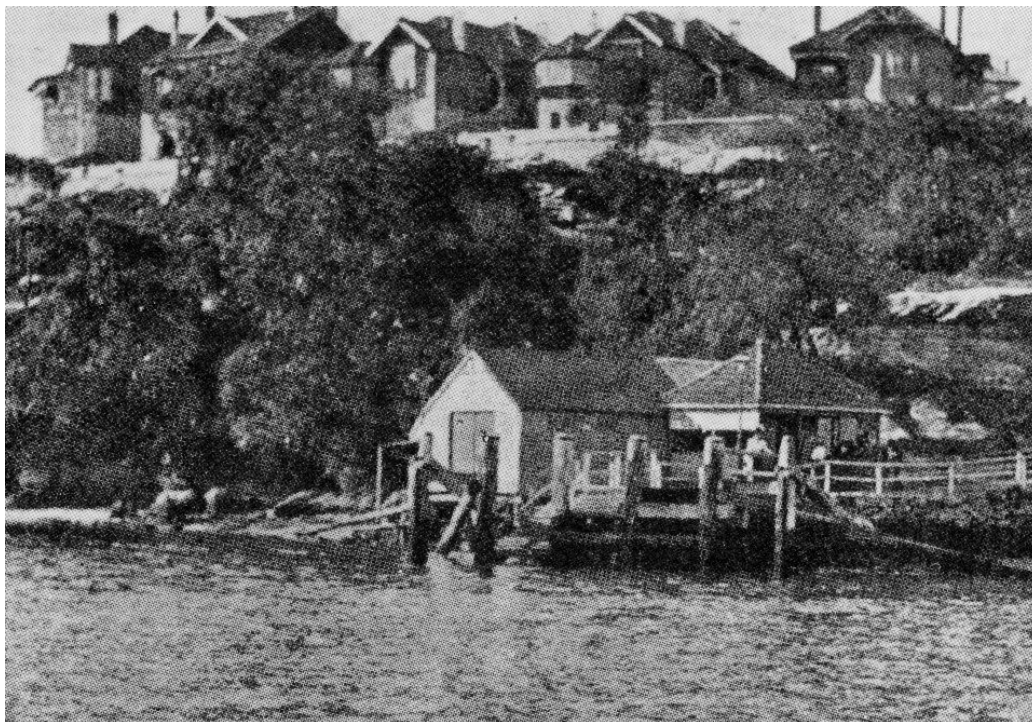


Humbug Lite

The Alternate GFS Newsletter

Edition 1 June 2022

Club Working Bee



As you can see, several aspects of the GFS Clubhouse (and assets) are clearly in need of their annual spruce up. Your attendance for an hour or two will be appreciated at the GFS Annual Working Bee on

Saturday, August 13 from 9.00am

2022 West Harbour Winter Series – Remaining Races

| | | |
|--------|-----------|--------|
| Sunday | June 19 | Race 2 |
| Sunday | July 3 | Race 3 |
| Sunday | July 17 | Race 4 |
| Sunday | July 31 | Race 5 |
| Sunday | August 14 | Race 6 |
| Sunday | August 28 | Race 7 |

GFS AGM

The 2022 Annual General Meeting of Greenwich Flying Squadron Inc. will be held at the Clubhouse on

Tuesday 12 July 2022 commencing at 7.30pm.

A formal notice of meeting will be sent by GFS Secretary, James Kearney in due course.

Season 2021 – 2022 Wrap

Trophy and Shield winners 2021 – 2022 Season – Well done to the recipients.

| Sail # | Boat | Skipper | Trophy |
|---------|--------------------|--------------------------------|---|
| 6904 | AURORA | Jeff Lewis | Winter Series Black Division Trophy |
| 2501 | BEWARE OF THE DOG! | Terry Daly | Winter Series 'GFS Red' Division Trophy |
| 3127 | CAPRIOLE | Geof Lucas | Winter Series Green Division Trophy |
| 1531 | FLAIR | Phil Hare | Ian Cohen Memorial Trophy |
| 4150 | FRENCH CONNECTION | Mike Murphy | Balmain and Allan Trophy |
| 7129 | HASTA LA VISTA | John Veale | Winter Series Black Division Trophy |
| 7129 | HASTA LA VISTA | John Veale | Joe Walsh Rigging Trophy – Blue Division (1) |
| MH117 | HIGHLAND GHOST | James Douglas | Gore Creek Trophy |
| 3608 | JOKA | Cecil Williams | Joe Walsh Rigging Trophy – Red Division (3) |
| 5673 | ON Y VA! | Bruce Hilliard | Mick York Series Trophy |
| 5673 | ON Y VA! | Bruce Hilliard | Greenwich Yardstick Trophy |
| 5673 | ON Y VA! | Bruce Hilliard | Crows Nest Ship Chandlers Pty Ltd Trophy |
| 6694 | PACA | Greg Jacques/ Andrew Wise | Joe Walsh Rigging Trophy – Red Division (3) |
| 6694 | PACA | Greg Jacques/ Andrew Wise | John Dowd Trophy |
| 7130 | PASSION X | David Edmiston | GFS 12ft Flying Squadron Perpetual Winter Series Trophy |
| KA125 | PEA JAY | David Dossetor | Mayor's Trophy |
| 4115 | PEJO LARK | Warren Richards | Cavalier 28 Association Trophy |
| AUS759 | TISM | Ritchie Lees / Michael Coleman | Joe Walsh Rigging Trophy – White Division (2) |
| AUS759 | TISM | Ritchie Lees/ Michael Coleman | Frank Crowe Etchells Trophy |
| AUS1125 | TONIC | Malcolm Blomfield | Frank Crowe Etchells Trophy |
| | | James Kearney | Queen Elizabeth II Jubilee Trophy |
| MH117 | HIGHLAND GHOST | James Douglas | Commodores Shield Orange Division |
| 5673 | ON Y VA | Bruce Hilliard | Commodores Shield Gold Division |
| 3608 | JOKA | Cec Williams | Commodores Shield White Division |
| R7 | WIND CHARMER | Peter Francis | Commodores Shield Green Division |
| 4150 | FRENCH CONNECTION | Mike Murphy | Commodores Shield Blue Division |
| 7600 | UTOPIA | John Amos | Commodores Shield Black Division |
| M101 | MISTRESS | Jane Gardner | Van Bellen Shield – Womens' Helm Series |



Greenwich Flying Squadron Inc.

Bay Street, Greenwich



Postal Address

PO Box 5092, GREENWICH, NSW 2065

www.gfs.org.au

Phone and FAX – 9436 1901

2022 - 2023

Season Program

For

Yacht Divisions

Club Committee meetings are held on the second Tuesday of each month (except January), commencing at 1930 hours.

Entries

| Year | Month | Day | Date | Final Date for Series Entries |
|------|-----------|-----------|------|-------------------------------|
| 2022 | August | Saturday | 27 | Saturday Series |
| | September | Saturday | 3 | Down Harbour Series |
| | | Wednesday | 21 | Twilight Series |
| | November | Saturday | 9 | Saturday Summer Series |
| | | Wednesday | 23 | Twilight Summer Series |

Important Club Events

| Year | Month | Day | Date | Event |
|------|-----------|-----------|------|--|
| 2022 | August | Saturday | 13 | Woking Bee - GFS Clubhouse |
| | | Saturday | 20 | Equipment Audits Saturday Yachts |
| | | Saturday | 27 | Equipment Audits Appointment only |
| | September | Saturday | 17 | Equipment Audits – Twilight Yachts Day 1 |
| | | Sunday | 25 | Equipment Audits – Twilight Yachts Day 2 |
| | September | Wednesday | 29 | Compulsory Skippers' Meeting |
| | May | Saturday | 27 | Prize presentation from 1500 hrs |
| 2023 | July | Tuesday | 13 | AGM |

Race entries via (TES) - TopYacht Entry System - TBA

Unless there is substantial change to Covid 19 restrictions sailing at GFS will proceed as normal, competitors in GFS events are to follow both the club and government prescriptions related to participation, gathering, sanitation and safety.

Crew lists are to be entered into TopYacht prior to each race in which the yacht competes.

Special and West Harbour Combined Series

All Yachts registered for the Saturday and Twilight Series are eligible to enter the Saturday Down Harbour Series and Saturday Mick York Trophy Series.

The **Mick York Trophy Series** will run in conjunction with the regular Saturday Series Races. The starting sequence will begin at **1315 hours** for all Saturday Series races.

Down Harbour Series Races are sponsored by Joe Walsh Rigging.

West Harbour Winter Series, 2022

| Year | Month | Day | Date | Event | Other Information |
|------|--------|--------|------|-------------------------|---|
| 2022 | June | Sunday | 5 | WH Winter Series Race 1 | Dates for the combined Balmain Sailing Club, Drummoyne Sailing Club and Greenwich Flying Squadron West Harbour Winter Series are subject to change . |
| | | Sunday | 19 | WH Winter Series Race 2 | |
| | July | Sunday | 3 | WH Winter Series Race 3 | |
| | | Sunday | 17 | WH Winter Series Race 4 | |
| | | Sunday | 31 | WH Winter Series Race 5 | |
| | August | Sunday | 14 | WH Winter Series Race 6 | |
| | | Sunday | 28 | WH Winter Series Race 7 | |

Joe Walsh Rigging Down Harbour Series

| Year | Month | Date | Event |
|------|-----------|------|-------------------------------|
| 2022 | September | 10 | Joe Walsh Down Harbour Race 1 |
| | October | 15 | Joe Walsh Down Harbour Race 2 |
| | November | 12 | Joe Walsh Down Harbour Race 3 |
| | December | 10 | Joe Walsh Down Harbour Race 4 |
| 2023 | January | 14 | Joe Walsh Down Harbour Race 5 |
| | February | 11 | Joe Walsh Down Harbour Race 6 |
| | March | 11 | Joe Walsh Down Harbour Race 7 |
| | April | 15 | Joe Walsh Down Harbour Race 8 |

Mick York Trophy Races

| Year | Month | Date | Event |
|------|-----------|------|--------------------------------|
| 2022 | September | 24 | Mick York Trophy Series Race 1 |
| | October | 29 | Mick York Trophy Series Race 2 |
| | November | 26 | Mick York Trophy Series Race 3 |
| 2023 | January | 21 | Mick York Trophy Series Race 4 |
| | February | 25 | Mick York Trophy Series Race 5 |
| | March | 25 | Mick York Trophy Series Race 6 |
| | April | 29 | Mick York Trophy Series Race 7 |

West Harbour Summer Series, 2023

| Year | Month | Day | Date | Event | Other Information |
|------|----------|--------|------|-------------------------|---|
| 2023 | January | Sunday | 15 | WH Summer Series Race 1 | Dates for the combined Balmain Sailing Club, Drummoyne Sailing Club and Greenwich Flying Squadron West Harbour Summer Series are subject to change . |
| | | Sunday | 29 | WH Summer Series Race 2 | |
| | February | Sunday | 12 | WH Summer Series Race 3 | |
| | | Sunday | 26 | WH Summer Series Race 4 | |
| | March | Sunday | 12 | WH Summer Series Race 5 | |
| | | Sunday | 26 | WH Summer Series Race 6 | |

Twilight Series

The Twilight Starting Sequence will begin at **1735 hours** for all races which start at the GFS Clubhouse. **VHF 72** will give the countdown at the start and will be monitored during races.

Yachts are to **keep clear** of the starting box exclusion zone until 5 minutes prior to the start time of their division.

If conditions are deemed appropriate, races may start from the club launch. **Code flag "Q"** (yellow pennant) will be flown from the clubhouse flag mast. The start sequence will begin at 1745 hours.

| Year | Month | Date | Event | Notes |
|------|-----------|------|--|-------------------|
| 2022 | September | 17 | Equipment Audits – Twilight Yachts | |
| | | 25 | Equipment Audits – Twilight Yachts | |
| | | 28 | Skippers' Meeting | |
| | October | 2 | Daylight Saving Commences | |
| | | 5 | Spring Race 1 | |
| | | 12 | Spring Race 2 | |
| | | 19 | Spring Race 3 | |
| | | 26 | Spring Race 4 | |
| | | 30 | Balmain Regatta – details and entries to Balmain Sailing Club | |
| | November | 2 | Spring Race 5 | |
| | | 9 | Spring Race 6 | |
| | | 16 | Spring Race 7 | |
| | | 23 | Spring Race 8 | |
| | | 30 | Spring Race 9 | |
| | December | 7 | Summer Race 1 | |
| | | 14 | Summer Race 2 and YOTS @ GFS | |
| | | 21 | Summer Race 3 | |
| | | 28 | Christmas Break – New Year break | |
| 2023 | January | 4 | Summer Race 4 | |
| | | 11 | Summer Race 5 | Women's Helm Race |
| | | 18 | Summer Race 6 | Women's Helm Race |
| | | 25 | Summer Race 7 | Women's Helm Race |
| | | 26 | 186 th Australia Day Regatta – Sydney Harbour – no GFS race | |
| | February | 1 | Autumn Race 1 – GFS Aus Day Regatta Race | |
| | | 8 | Autumn Race 2 | |
| | | 15 | Autumn Race 3 | |
| | | 22 | Autumn Race 4 | |
| | March | 1 | Autumn Race 5 | |
| | | 8 | Autumn Race 6 | |
| | | 15 | Autumn Race 7 | |
| | | 22 | Autumn Race 8 | |
| | | 29 | Autumn Race 9 | |
| | April | 2 | Daylight Saving Ends | |

Other Events (* may have impact on the area in which GFS could sail)

| Year | Month | Date | Event | Notes |
|------|----------|---------|--|--|
| 2022 | October | 30 | Balmain Regatta | Entries to BSC |
| | November | TBA | MHYC Seven Island Race * | Possibly 27th |
| | December | 6 - 12 | Sail Sydney Regatta Woollahra Sailing Club * | Main Harbour |
| | | 10 - 11 | CYCA Classic Yacht Regatta * | Main Harbour |
| | | 15 - 17 | Sail GP * | Main Harbour |
| 2023 | January | TBA | MHYC Chaos Cup & Bedlam Point Cup * | Possibly 15th |
| | | 26 | 187 th Australia Day Regatta | Main Harbour |
| | February | 12 | RANSA Regatta | Main Harbour |
| | March | TBA | Sydney Harbour Regatta * | Possibly 5 th and 6 th |
| | April | 3 - 9 | Sail Port Stephens 2023 | PSYC |
| | October | 29 | Balmain Regatta | Entries to BSC |

Saturday and Down Harbour Keelboat Series

The starting sequence will begin at **1315 hours** for all Saturday Series.

Races will start from the club launch when **code flag "Q"** (yellow pennant) is flown from the clubhouse flag mast, otherwise the start will be from the clubhouse.

VHF 72 will give the countdown at the start and will be monitored during races and used to communicate with yachts.

| Year | Month | Date | Event | Other |
|------|-----------|------|--|-----------|
| 2022 | August | 20 | Equipment Audits Saturday Yachts | |
| | | 27 | Equipment Audits Saturday Yachts | |
| | September | 3 | Spring Race 1 | |
| | | 10 | Joe Walsh Down Harbour Race 1 | |
| | | 17 | Spring Race 2 | |
| | | 24 | Spring Race 3 | MY Race 1 |
| | | 28 | Skippers' Meeting | |
| | October | 1 | Long Weekend – No Race | |
| | | | Daylight Saving Commences – Sunday October 2 | |
| | | 8 | Spring Race 4 | |
| | | 15 | Joe Walsh Down Harbour Race 2 | |
| | | 22 | Spring Race 5 | |
| | | 29 | Spring Race 6 | MY Race 2 |
| | | 30 | Balmain Regatta – details and entries to Balmain Sailing Club | |
| | November | 5 | Spring Race 7 | |
| | | 12 | Joe Walsh Down Harbour Race 3 | |
| | | 19 | Spring Race 8 | |
| | | 26 | Spring Race 9 | MY Race 3 |
| | December | 3 | Summer Race 1 | |
| | | 10 | Joe Walsh Down Harbour Race 4 | |
| | | 17 | Summer Race 2 | |
| | | 24 | Christmas and New Year Break | |
| | | 31 | | |
| 2023 | January | 7 | Summer Race 3 | |
| | | 14 | Joe Walsh Down - Harbour Race 5 | |
| | | 21 | Summer Race 4 | MY Race 4 |
| | | 26 | 187th Australia Day Regatta – Sydney Harbour | |
| | | 28 | Summer Race 5 - GFS Saturday Australia Day Race | |
| | February | 4 | Autumn Race 1 | |
| | | 11 | Joe Walsh Down Harbour Race 6 | |
| | | 18 | Autumn Race 2 | |
| | | 25 | Autumn Race 3 | MY Race 5 |
| | March | 4 | Autumn Race 4 | |
| | | 11 | Joe Walsh Down Harbour Race 7 | |
| | | 18 | Autumn Race 5 | |
| | | 25 | Autumn Race 6 | MY Race 6 |
| | April | 1 | Autumn Race 7 | |
| | | 2 | Daylight Saving ends | |
| | | 8 | Easter – No Race | |
| | | 15 | Joe Walsh Down Harbour Race 8 | |
| | | 22 | Autumn Race 8 | |
| | | 29 | Autumn Race 9 | MY Race 6 |

MY = Mick York Series

Safety Inspections

For the 2022 – 2023 season you will require an equipment audit by an accredited Equipment Auditor.

Audits will be held at the GFS clubhouse at the nominated times in the club Sailing Program.

Prior to your inspection download and complete the audit form from the GFS website and have the equipment laid out in the cockpit and cabin before presenting your yacht for the audit.

Details of the required equipment can be found in the following publication.



<https://cdn.revolutionise.com.au/site/uoa1gvknbxk0adjq.pdf>

Racing Rules of Sailing

If needed the 2021 – 2024 RRS can be downloaded using the following link.



<https://www.sailingresources.org.au/class-assoc/racing-rules/>

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Website and Facebook

It is important to regularly check the GFS website for important club information. The site is the vehicle for communicating changes to procedures and upcoming events. Notices, changes, results, instructions, season programs and race entry details are communicated via the website - <https://gfs.org.au/>

The GFS Facebook page is for members to share stories, photographs, alerts and events relevant to club and wider community events - <https://www.facebook.com/groups/138966136751023/>.

Our 'Local' History – Did you know?

Did you know - Cockatoo Island was not open to the public prior to 2007?

In 2000 an Aboriginal rights group set up camp on the island. The group was a branch of the Aboriginal Tent Embassy, which has occupied land outside Old Parliament House in Canberra since 1972. The Tent Embassy submitted a land claim under the Native Title Act 1993 and rejected the Commonwealth's sovereignty over the island. The group stated that when Captain Cook claimed Australia for the Commonwealth, he did not specify Cockatoo Island. The High Court of Australia refused the Tent Embassy's application on March 13, 2001, and the group peacefully left the island after four months of settling there.

Did you know - Woolwich Dock was once the largest dry dock in Australia?

On 4 December 1901, Woolwich Dock was officially opened and used for the repair and fitting-out of large ships. For more than 50 years, Morts Dock and Engineering Company operated the dock. During World War I and II, the dock was filled with passenger vessels being converted to troopships, as well as damaged ships that needed repairing. This industrial activity led to new housing developments, as well as the construction of the Woolwich Pier Hotel.

It was purchased by the Army in 1963 for its water-based transport operations until moving to Townsville in 1997.

Did you know – Goat Island was once inhabited by Bennelong and Barangaroo?

The island is known as Me-Mel (meaning eye) by the local Cadigal people.

In the 1800s, the island was used as a home for convict work gangs.

The Queen's Magazine was built in the 1830s by convicts using sandstone quarried from the eastern side of the island. It was used to store explosives. There are other heritage buildings which were formerly the Harbour Master's residence, barracks, cooperage and kitchen.

Later, Goat Island was the site of the first water police station and harbour fire brigade. It has been used as a set for a television show (Water Rats) and has hosted several concerts (Midnight Oil, Kings of Leon)

Goat Island is now part of the Sydney Harbour National Park. In 2016, the NSW government announced its intention to return management of Goat Island to the Aboriginal people of New South Wales. The current NSW Government is beginning the official transfer process for the return of Me-Mel Island.

Did you know – There are 8 Islands in Sydney Harbour?

As well there are 5 'peninsulas' that used to be islands.

The Harbour Islands are - Cockatoo Island, Spectacle Island, Snapper Island, Goat Island, Rodd Island, Fort Denison, Clark Island and Shark Island.

There are 5 islands that have been reclaimed and are now part of the Sydney mainland. They are - Berry Island, Glebe Island, Darling Island, Bennelong Point and Garden Island.

As well. there is conjecture as to whether Rocky Point Island at Balmoral is actually an island.

Etchells

In 1965, Yachting Magazine launched a competition to select a new three-man Olympic keelboat. E. W. "Skip" Etchells, built a wooden boat *Shillalah*, taking her to Kiel, Germany, where the trials were to be held. *Shillalah* performed well at the trials, winning eight of the ten races. Despite these results the judges were unable to decide which boat and a second set of trials were held in Travemünde the following year. For these trials Etchells rebuilt the boat in fiberglass, using the original *Shillalah* as a plug. As with the first trials, *Shillalah II* dominated the races, winning ten out of the thirteen that were held. At the completion of the trials the judges chose the Soling over *Shillalah II*, in spite of her success in the races.

Shortly after the boat entered production with orders for an initial 12 boats. With the formation of a new association the class became known as the E22, and 32 boats were built by the end of 1969.

In Australia, within a year of receiving the moulds from the USA, Savage Fibreglass Industries had built 30 boats, and continued to build Etchells until 1980 by which time 127 boats had been built. In 1981, Pamcraft was granted the Etchells licence in Australia and during the next 10 years built 200 Etchells. From 1991 until 1996 Bashford Boat Builders built 111 boats and since 1996 Pacesetter Etchells Pty Ltd has been the Australian builder.

The E22 was recognised as an international class by the International Yacht Racing Union in 1974 and the name was changed to "International Etchells" in 1990.

Currently, GFS has 13 Etchells sailing regularly in Twilights and/or Saturdays – *Adrenaline*, *Chloe*, *Echiban*, *Etesian*, *Finesse*, *Gem*, *Meerkat*, *Oman*, *Pacific Edge*, *Standown*, *TISM*, *Tonic* and *WTF*. Maybe time to resurrect the GFS Old Etchells Series. What a sight it would be if they all sailed in Saturday races!

ooo0ooo

A sailor walks into a bar with a ship's steering wheel in his pants. The bartender says: "Hey, did you know you've got a steering wheel in your pants?" The sailor replies – "yes, it's driving me nuts!"

ooo0ooo

J24 – Jaytripper, AUS 19 is for sale \$6000 contact Al Mclver 0412 711 160



The J24 yacht was originally designed in 1975 by Rodney Johnstone and introduced to Australia in 1979.

There are over 5000 J24 boats worldwide.

Quick Rules Guide.

The following summary was developed by the ISAF so that sailors who are starting to race can compete using only these few rules and without the need to learn the many details of the ISAF Racing Rules of Sailing (RRS). It was intended that these skippers would race separately to those racing under the RRS. However, a good summary.



Introductory Rules for Racing

Version 1.01 - February 2008

Some Explanations

Windward and Leeward: The *leeward* side of your boat is the side where your mainsail lies. The *windward* side is the other side.

Port and Starboard tack: You are on *port* or *starboard tack* according to your *windward* side.

Advisor: A person appointed by the race organizers to assist competitors in understanding the rules and, when appropriate, to penalize a boat.

Basic Rules

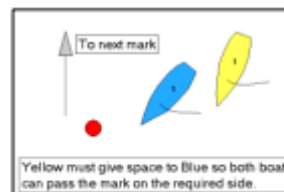
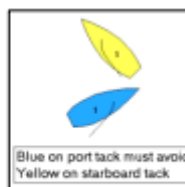
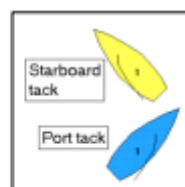
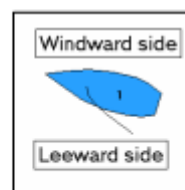
1. You must comply with the principles of good sportsmanship.
2. You must try not to collide with another boat.

Rules When Boats Meet

3. When you and the other boat are on opposite *tacks*, if you are on *port tack* you must avoid the boat on *starboard tack*.
4. When you and the other boat are on the same *tack*, you must avoid the other boat
 - (a) if she is in front of you, or
 - (b) if she is on your *leeward* side.
5. After starting, when you and the other boat approach a mark or an object that both boats need to avoid, and the other boat is between you and the mark or other object, you must give her sufficient space to pass it safely on the same side. However, when the boats are on opposite tacks at a windward mark, this rule does not apply.
6. When the other boat is required to avoid you, if you change course, you must give the other boat an adequate opportunity to avoid you.

Other Rules

7. At the starting signal you must be behind the starting line.
8. After the starting signal, you must sail the course described by the race organizers.
9. You must not touch a mark of the course.
10. If you think you or another boat has broken a rule or if you are unclear about the rules at any time during the race, you must describe the incident to the *advisor* after the race. The *advisor* may then add two points to the score of any boat that has broken a rule. If the offence is serious, the *advisor* may add extra points to the boat's score.



From SASC News - June 2022 ex Harvey Porter – Northshore 33 - *Out of Africa*



Our Racing Secretary, David Pryke, is sailing *Out of Africa* in the winter series

2022 CYCA Winter Series – Division D – Pointscore up to race 6

Well done Irukandji for the results and representing GFS. Good Luck in the remaining races.

| Boat | Skipper | Club | Race 1 | Race 2 | Race 3 | Race 4 | Race 5 | Race 6 | Points |
|-------------------------|--------------|------|--------|--------|--------|--------|--------|--------|--------|
| <i>Whistling Kite</i> | Kym Evans | CYCA | 1 | 2 | 2 | 5 | (6) | 3 | 13 |
| <i>Irukandji</i> | Stephen Nash | GFS | 4 | 3 | (7) | 1 | 4 | 2 | 14 |
| <i>One More No More</i> | Ian Guanaria | CYCA | 3 | 1 | 1 | 3 | 7 | (8) | 15 |

Rules in Focus – 19.2 (c) – A must for GFS competitors to understand and implement.

19 ROOM TO PASS AN OBSTRUCTION

19.2 Giving Room at an Obstruction

(c) While boats are passing a continuing obstruction, if a boat that was clear astern and required to keep clear becomes overlapped between the other boat and the obstruction and, at the moment the overlap begins, there is not room for her to pass between them, she is not entitled to room under rule 19.2(b). While the boats remain overlapped, she shall keep clear and rules 10 and 11 do not apply.

RRS Definitions which apply

Obstruction

An object that a boat could not pass without changing course substantially, if she were sailing directly towards it and one of her hull lengths from it. An object that can be safely passed on only one side and an area so designated by the sailing instructions are also obstructions. However, a boat racing is not an obstruction to other boats unless they are required to keep clear of her or, if rule 23 applies, avoid her. A vessel under way, including a boat racing, is never a continuing obstruction.

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.

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.

