



South Of Perth Yacht Club



2018 International Moth World Championships Proposal

# South of Perth Yacht Club

## Perth, Western Australia



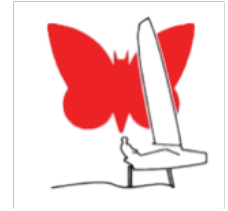
Prepared for: International Moth Class Association

Prepared by: International Moth Class Association - Western Australia and South of Perth Yacht Club

1 May 2016



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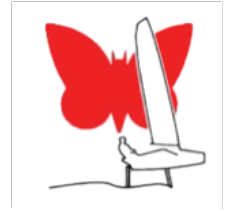
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# Executive Summary

IMCA has requested all interested Yacht Clubs wishing to host the 2018 Moth Worlds to answer the following questionnaire to demonstrate compliance with the requirements of IMCA for the 2018 World Championships. The South of Perth Yacht Club and IMCA-WA have prepared the following document in order to demonstrate this compliance. Please see the questionnaire below, and SOPYC / IMCA-WA's response.



## Response Questions

1. Can you provide particulars of the club and surrounds (possibly including some photos) that demonstrate how The Event could be hosted successfully?  
*Yes. Please refer to the "South of Perth Yacht Club" section.*
2. Can information be provided about expected sea, wind, weather and tidal information for the proposed host venue?  
*Yes. Please see "Metoccean Information".*
3. What Travel and Accommodation information can you provide?  
*Please see "Travel and Accommodation" and "Transport Logistics" sections.*



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4. What is the Container and boat trailer transport options? Boats will be both sea, air freighted and trailed in.  
*These can be adequately catered for. Please see the “South of Perth Yacht Club” and “Transport and Logistics” sections of the proposal.*
5. Can you confirm exclusivity for The Event at the proposed venue for the duration of the program?  
*Yes. Please see “Exclusivity” section.*
6. Is their access to the proposed venue prior to The Event and if so, how many days prior?  
*Yes. Please see “Access”.*
7. Has an event like this been run at the proposed venue?  
*Yes. Please see “Past Events”.*
8. Is there a proposed organising committee with experience in running a world championship?  
*Yes. Please see “Organising Committee section”.*
9. What are the suggested dates for running The Event?  
*1st to 11th November 2018. for more detail please refer to “Event Program”.*
10. Can you confirm the Recommended Program?  
*Yes. Please refer to “Event Program”.*
11. Can you provide details on how you would see the financials working for The Event at the proposed venue?  
*Yes. Please refer to the “Financials” section.*
12. Is there any proposed sponsorship to consider?  
*Yes. Please refer to the “Financials” section.*
13. Will the race committee be ISAF compliant?  
*Yes. Please refer to the “Race Committee” section.*
14. Can the format be confirmed as being understood and the proposed venue can cater for such a format?  
*Yes. Please refer to “On The Water” section.*
15. Can the course layout be confirmed as being understood and the proposed venue can cater for such a course layout?  
*Yes. Please refer to “On The Water” section.*



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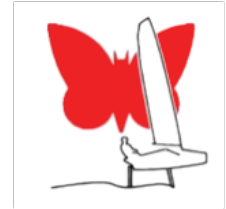
16. Can you describe what the proposed safety and rescue function would be?  
*Yes. Please refer to “On The Water” section.*
17. Will there be a Jury Boat available?  
*Yes. Please refer to “On The Water” section.*
18. Can you describe how the social events would be hosted?  
*Yes. Please refer to the “Social” section of the proposal.*
19. Can you confirm the facilities are available as required?  
*Yes. Please refer to “South of Perth Yacht Club” section.*
20. Can you describe the communications infrastructure that will be available?  
  
*Please refer to “Communications”.*
21. Can you confirm that there will be an adequate registration area, measurement area, race committee and jury facilities, and AGM area?  
*Yes. Please refer to “South of Perth Yacht Club” section.*
22. Is there any other features or considerations you want to put forward with your proposal?  
*Yes. Please see “Other” at the end of the proposal.*

South of Perth Yacht Club and IMCA-WA believe that all required responses are provided in the following proposal with sufficient supporting evidence, and as such are well placed to host the 2018 Moth World Championships on the Swan River.





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# Introduction

It is proposed to hold the 2018 Moth World Championships in Perth, Western Australia between the 1<sup>st</sup> and 11<sup>th</sup> of November, 2018. The bid detailed in the following proposal is supported by the South of Perth Yacht Club, Yachting Western Australia and the members of the Moth Class in Western Australia.

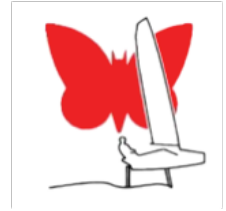
This document is intended to meet the requirements of the International Moth Class Association during the initial selection phase prior to the International body nominating a selected club and venue to.

Should this proposal be successful, this document can form the basis of future documentation to be supplied to the World Council for final agreement.





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# South of Perth Yacht Club

## Brief History

South of Perth Yacht Club was founded on 18 December 1945 with the official opening of the Clubhouse at Olives Reserve on 18 November 1946. Frank Sampson was appointed the very first Commodore until 1949. In 1960 the club was relocated to where it now resides at Coffee Point on the western shore of the Canning River in Applecross.

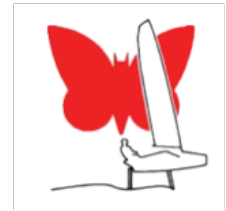


To promote boating, the club offers a wide range of services for boat owners. These include undercover storage for racing dinghies, hard standing for trailer-able yachts and powerboats, water pens for boats to 25 metres, swing moorings and slipping facilities and an onsite chandlery “Canning River Traders”.





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The Club has a fully-functional licensed restaurant, with some of Perth's best views overlooking the Swan and Canning Rivers and a clear view of Perth city. The restaurant caters for lunch and dinner as well as special functions. Three bars meet the needs of members and their guests while two outside areas cater for informal al fresco dining and barbecues.

The South of Perth Yacht Club Sailing Academy is Yachting Australia accredited and offers a variety of courses in both sailing and power boating throughout the year. The club also hosts a gymnasium located in the junior clubhouse and equipped with its own trainer. Racing is conducted throughout the year.

### Boat Park

There is sufficient space at the South of Perth Yacht Club for the anticipated number of competitors to store, rig, wash and maintain their boats during the event.



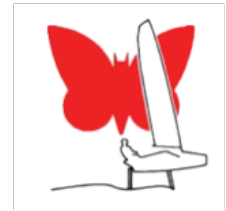
### Car and Trailer Parking

There is a significant amount of secure car parking and trailer / container storage available at the South of Perth Yacht Club as shown in the following photograph, including the hardstanding area for the Trailer Sailors and Sportsboats, which could also be utilised for some storage if required.





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## Launching and Retrieval

South of Perth Yacht Club is arguably the easiest Swan River based yacht club for launching and Retrieving a Moth. There are sand beaches along the entire rigging area, with only a short walk to water deep enough to start sailing a hydrofoil moth. Once sailing, there is direct access to the racing area of Melville Water.

Due to the low tidal range on the Swan River, this entire beach is accessible regardless of the tidal state, and it is highly unusual for the launch area to be affected by weed or other obstacles (moorings etc). The beach can be used for launching regardless of the wind direction or strength with adequate space in all directions off the beach in order to get sailing.

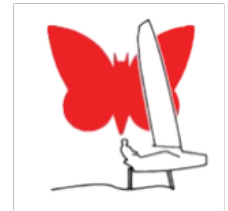
## Social Area

An all weather social gathering area is available in the main clubhouse or the dinghy club. During fine weather this area can be opened up, and the verandah and grassed area in front of the club also used for socialization.

For previous moth class events, special licensing was granted to allow the sale of alcohol to competitors in the rigging area post event.



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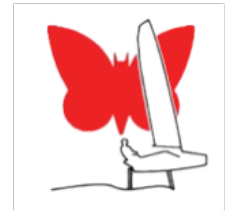


### **Fresh Water for Boat Wash Down**

A number of fresh water taps are available in the rigging and launch areas for wash down of boats after racing. It should be noted that the Swan River is brackish, and as such not as harsh on Moths as ocean water.



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## Ablutions

Toilets and Showers are available at the club as a part of the dinghy clubhouse. An assessment of the adequacy of the number of toilets can be made closer to the event to ensure that if necessary additional portable toilets can be brought in to service the number of people at the event.

## Catering

The South of Perth Yacht Club is a permanently staffed club in regards to catering. Regardless, options to supply adequate catering to participants and spectators will be further planned closer to the event if successful. Options include, but are not limited to:

- Arranging a sufficiently sized group of club volunteers to run the SOPYC Galley for the duration of the event.

- Engage with a catering firm to run the SOPYC galley for the duration of the event

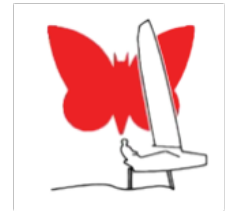
- Engage a Catering firm to supply all aspects of catering for the duration of the event, utilising their own facilities (mobile catering vans etc)

Given the nature of the event the timing of racing will have a direct impact on the demand for catering. It is anticipated that the catering service will be made available to supply food in the hours leading up to boats

2018 International Moth World Championships Proposal, SoPYC, Perth, WA



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launching and on their return from racing. During racing, subject to spectator demand, this service will continue.

A suitable menu for the event will be prepared in line with the expectations of the sailors, volunteers, spectators and within the capacity of the caterers and South of Perth Yacht Club.

## **Race Committee / Organisation Space**

### **Registration**

A central area in the vicinity of the clubrooms and rigging area will be allocated during the early stages of the event for registration.

### **Measurement**

There are a number of enclosed rooms which will provide space sufficient for the measurement of boats and equipment. It will be ensured that suitable lighting is available at this location to enable the measurement of equipment during the evening if required. Power will be provided for the running of other measurement equipment if needed (scales, computers etc)

### **Race Committee**

A race committee room is available. This location provides a centralised position.

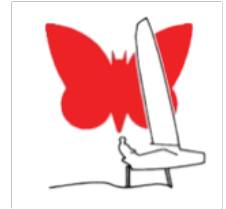
### **Protest Room**

Protests can be heard in the meeting rooms in the main clubhouse. This will provide a private location for the hearing of the protest (if required).





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# Metocean Information

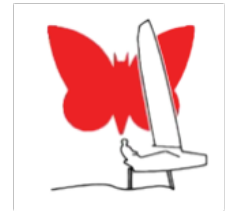
## Summary

The Swan River offers ideal Moth racing conditions. During November the winds in the afternoons (3pm) are from the West or South-West, with the most probable strength being between 10.8kn and 16.2kn (20 and 30km/hr). The water is flat, and not affected by current or swell. The below photograph, taken at the 2010 Nationals held on the Swan River highlights these characteristics.





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## Waves and Swell

Being an inland water, the Swan River is not subject to ocean swells. Wind waves are present, increasing as the wind speed increases, however these tend to never be greater than 0.5m.

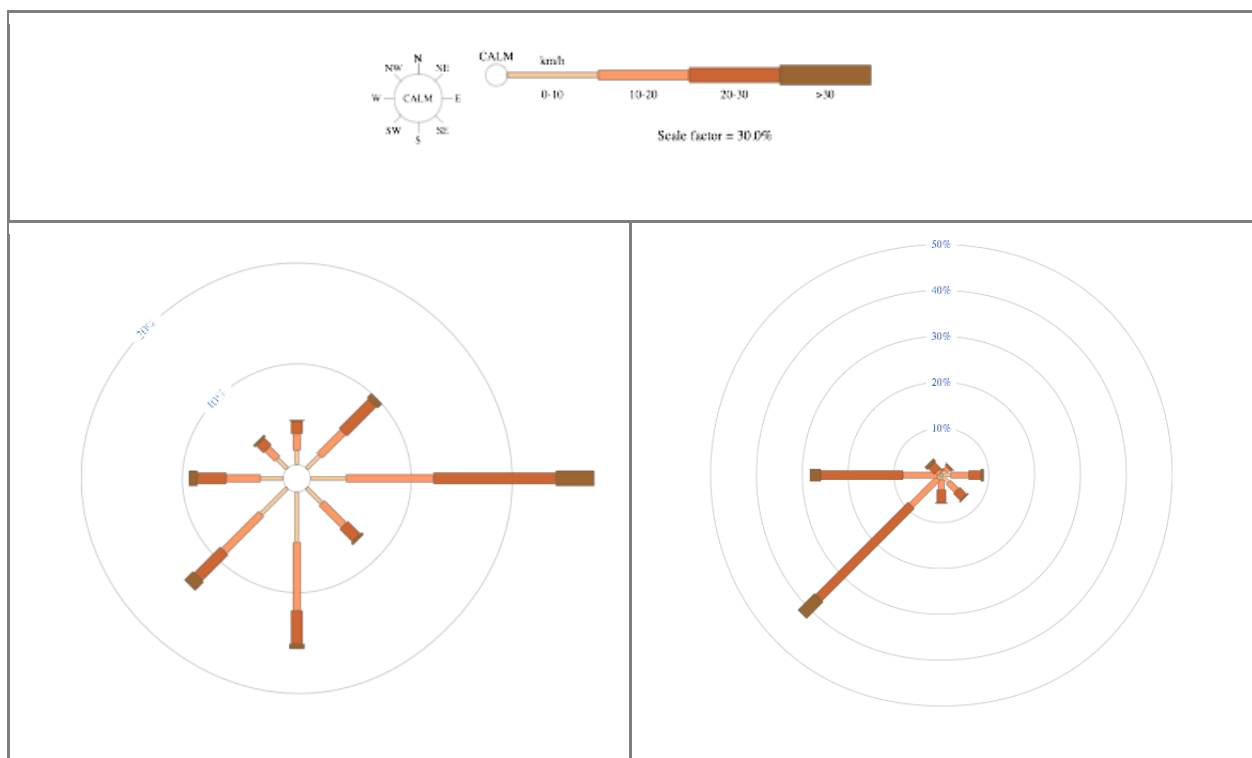
## Tide

The Swan River runs into the Indian Ocean at Fremantle Port. Fremantle Port is not significantly tidal, with a maximum tidal range of 0.8m. The tides are mixed at Fremantle, depending on the day there may be one or two high tides in a 24hr period.

Tidal effects on the Swan River are not significant and tend not to have an impact on race courses.

## Wind

Perth is famous for its regular afternoon seabreeze, the Fremantle Doctor. This, however is not the be all and end all of wind conditions in Perth. During early November the sea breeze is consistent, however not as strong as is can be later in the summer. In the mornings, an easterly land breeze is common. Wind Statistics are shown in the following plots, with more data included in the Attachments. (Note: windspeeds in below plots are in km/h)

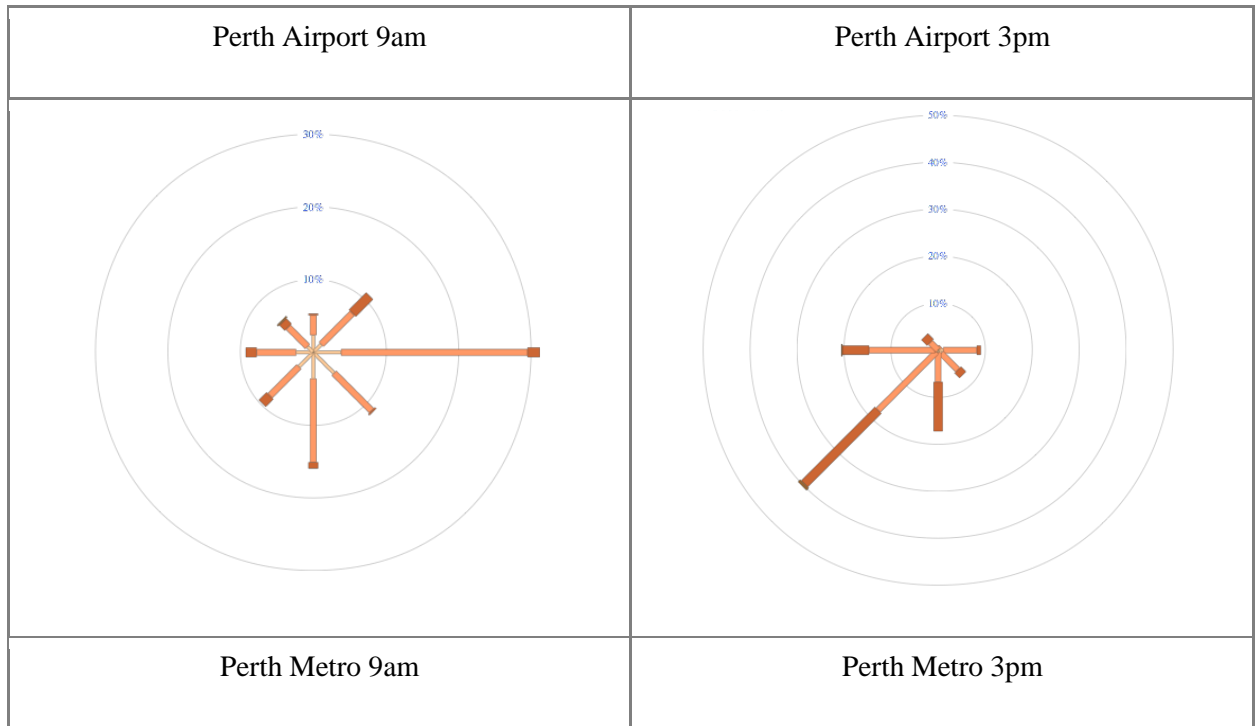




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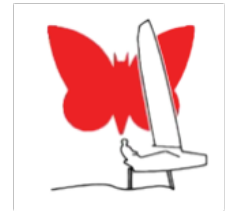


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# Travel and Accommodation

## Travel

### Air - Domestic

Perth has regular incoming flights from all four of the main domestic carriers in Perth (QANTAS, Virgin, Jetstar and Tiger). Flights are spaced regularly throughout the day and are direct from Brisbane, Sydney, Melbourne and Adelaide. Tasmanian sailors can access Perth by a one stop flight via Melbourne or Sydney.

Specials are available regularly from all airlines, however due to the resources industry's heavy reliance on Eastern States FiFo workers, some flights do fill up quickly, particularly those that link with onward travel into regional WA.

The Perth Domestic terminal is approximately 22km from South of Perth Yacht Club, out of peak times this trip will take approximately half an hour.

Taxi's are available at the airport, the trip to the yacht club will be between \$35 and \$45 subject to the time of day and traffic.

A number of hire car companies operate at the domestic terminal.

### Air - International

The International Moth Fleet can be broken down into a number of distinct regions. Sailors are based in Europe, Middle East, Asia (Singapore and Japan), New Zealand, and throughout the USA. The below details travel options for sailors from each region.

#### Europe

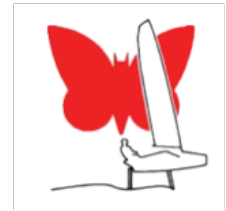
Flights are available from most of the major European Hubs, generally one stop to Perth. Stopovers are available in Hong Kong, China, Singapore, Dubai, Qatar, Bangkok and Kuala Lumpur with the following Airlines:

|         |                |
|---------|----------------|
| •QANTAS | •Thai Airlines |
|---------|----------------|





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|                     |                    |
|---------------------|--------------------|
| •Emirates           | •Malaysia Airlines |
| •Qatar Airways      | •Cathay Pacific    |
| •Singapore Airlines | •China Southern    |

### Middle East

Emirates and Qatar Airways have daily flights direct to Perth. A number of other international airlines also use Dubai as a hub, and as such flights to Perth may be available with these airlines also. Flight time is approximately 11 hours.

### Singapore

Regular daily flights operate direct between Perth and Singapore with Singapore Airlines, Qantas, Jetstar and Tiger Airlines. As this is a major tourist route into South East Asia fares are competitive. The flight is approximately 5 hours.

### Japan

Flights to Japan are available with a number of airlines via Singapore, Hong Kong, Thailand and Malaysia, and can generally be completed with a stopover in less than 24 hours.

### New Zealand

Air New Zealand in partnership with Virgin Airlines flies direct between Perth And Auckland daily, and flights with one stop can be had with Qantas and Jetstar. Travellers can also access flights between Sydney or Melbourne and Auckland and then on to Perth with domestic airlines.

### USA

The Main hub for Flights to Australia from the United States is Los Angeles Airport (LAX) via Sydney or Melbourne. Flights are available between these two locations with one or two stops with the following airlines:

|                     |                    |
|---------------------|--------------------|
| •QANTAS             | •American Airlines |
| •Virgin Australia   | •United Airlines   |
| •Air New Zealand    | •Cathay Pacific    |
| •Singapore Airlines | •China Eastern     |

Flight times are typically between 20 and 30 hours depending on stopovers.



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## Road - Domestic

It is possible to travel to Perth by road from the eastern states. Towing a trailer with boats, the trip can take anywhere between 2 to 4 days, depending on the route taken, number of drivers and whether or not the choice is made to drive at night.

Once in Perth, space will be made available at the South of Perth Yacht Club for the storage of trailers and boat boxes.

## Public Transport in Perth

Regular and reliable public transport is available in the vicinity of South of Perth Yacht Club. Bus and train timetables are available from the Transperth website as well as maps, ticket and fare information and how to get from point A to point B using Journey Planner. For more information go to <http://www.transperth.wa.gov.au>.

## Accommodation

A wide range of accommodation is available in the greater Perth Metropolitan area, ranging from camp sites to luxury hotels and resorts. In preparing this proposal, we have considered accommodation that is available in the close vicinity of the South of Perth Yacht Club. On the following page is a sample of the accommodation close by the club, which is generally holiday house or apartment type accommodation with a wide range of amenities and costs. Many of these options include multiple rooms, and as such a group of sailors would likely occupy one of these places, significantly reducing the cost per night per sailor.

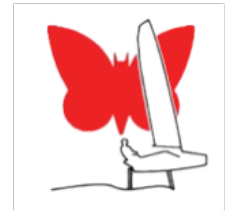
In order to satisfy the requirement that cheap accommodation options are available nearby the event, it is proposed that camping be made available at the club. The number of spaces will be determined by overall demand and the Council requirements. however it is anticipated that room for up to 20 tents and 20 campervans may be available.

All assistance possible will be provided by the organising committee to assist competitors to find suitable accommodation (including, if required, billeting in volunteers private home). Should South of Perth Yacht Club be selected, local operators will be approached in order to secure discounted rates where possible for advertisement in the Notice of Race.

The South of Perth yacht club is approximately 10min walk from the nearest train station which is a direct line to Perth City. A trip duration of approximately 5 minutes. In the unlikely case of limited accommodation availability adjacent to the venue, significant levels of accommodation are available in the Cite of Perth center



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| ID | Name                          |
|----|-------------------------------|
| A  | Canning Bridge Auto Model     |
| B  | Broadwater apartments Como    |
| C  | Mt Pleasant apartments        |
| D  | Salt Short term accommodation |
| E  | Quest South perth             |
| F  | South perth Apartments        |
| G  | Como bed and breakfast        |
| H  | Como waters bed and Breakfast |



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# Transport Logistics

## Sea Freight

Fremantle Port is Western Australia's primary container port and is located approximately 15km, (22 minutes) from the club. Subject to the freight arrangements made by competitors, the delivery of containers from the port to the club should not cause significant delays.

A number of Container lines offer weekly services to Fremantle Port from Europe, South East Asia and the Americas. Sea transport from Europe and the Americas takes approximately a Month, approximately 1-2 weeks from South East Asia, depending on departure port.

## Air Freight

Fifteen air freight companies operate at Perth International Airport, which is located 27km (Approx 40 Minutes) from South of Perth Yacht Club.

Most of the International Airlines visiting Perth Airport have freight options, and as such boats arriving by air shouldn't pose a difficult scenario for sailors to have their boats at the club on time.

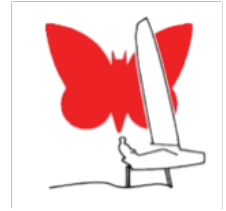
## Trailer

Competitors traveling from the East Coast of Australia by road with their boats on a trailer will be able to store their trailers at the club for the duration of the event. There are no significant issues in regards to getting trailered boats to the South of Perth Yacht Club.





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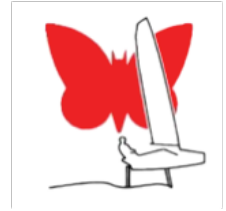
# Exclusivity

A requirement to plan a sailing event on the Swan River is that the water be booked via the Yachting Association of WA. As such, the body of water to be used for the event will be locked out to other clubs for organised racing for the duration of the event. This ensures exclusive access to the proposed water for the duration of the event.

Whilst the South of Perth Yacht Club has the resources to support the 2018 Moth Worlds, it is anticipated that the event will utilize all of the available resources at the club (rigging, clubrooms, catering, storage etc). The South of Perth Yacht Club will not organise additional sailing events at the club during the championships.



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# Access

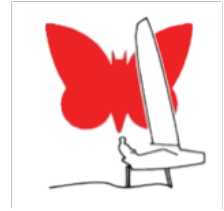
The South of Perth Yacht Club has agreed to make space available to competitors arriving before the regatta, as it is understood that some sailors will want to train in local conditions prior to the event. Sufficient space will be made available, and the sailors informed on procedures to ensure that this does not impact on the day to day running of the club in the lead up to the regatta.



Sailors will be requested an ETA at the club prior to the event in order to ensure that their requirements can be aligned with club commitments.



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# Past Events

A number of significant events have been held at the South of Perth Yacht Club, and more are planned in the lead up to the Moth Worlds in 2018.

The below list summarises some of the recent relevant events held at South of Perth Yacht Club

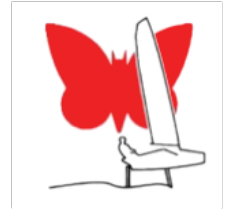
## Past

- 2010 Australian Moth National Championships
- 2016 Australian Moth National Championships
- M32 World Match Racing Series
- 2016 WA State Moth Championships

It must be noted, however, that the full capacity of Yachting WA will be leveraged in order to support the 2018 Moth World Championships. The most significant example of the capability of local sailors to organise an event of this magnitude was the Perth 2011 regatta, which was the final major event for Olympic Classes prior to London 2012. Race management personnel from most yacht clubs were trained and gained significant experience in assisting at this event.



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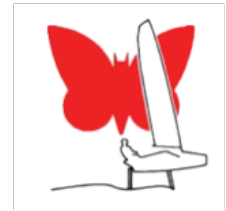
# Organising Committee

An Organising Committee will be formed from members of IMCA, IMCA-WA, South of Perth Yacht Club and Yachting WA. The members of the committee will have experience in participating in and organising State, National and World Championship regattas. At this early stage it is not possible to advise who will form this committee.





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# Event Program

It is proposed to run the event in the first two weeks of November 2018 (but subject to feedback from IMCA as the dates could be adjusted) . The following contributed to the selection of these dates:

Availability of water and resources, outside of the traditionally busy “Nationals” period between Christmas and New Year.

No racing Saturday Afternoons or Sundays in order to minimise disruption to regular club racing on the river, or the effect of this racing on the Moth World Championships.

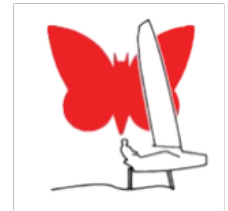
Outside of Summer School Holidays in Australia, this should make transport and accommodation more accessible.

Early summer will provide better Moth sailing conditions, particularly in the afternoons as the regular Afternoon Sea Breeze (Fremantle Doctor) will not be at full strength at this time of year.

| Day              | Scheduled Events  |
|------------------|---|
| Sun, Nov 1, 2018 | Day 1 Measuring and Registration                        |
| Mon, Nov 2, 2018 | Day 2 Measuring and Registration + Australian Nationals |
| Tue, Nov 3, 2018 | Day 3 Measuring and Registration + Australian Nationals |
| Wed, Nov 4, 2018 | Day 4 Measurement + practice race + opening ceremony    |
| Thu, Nov 5, 2018 | Day 5 Qualifying Races 1, 2, 3                          |
| Fri, Nov 6, 2018 | Day 6 Qualifying Races 4, 5, 6                          |
| Sat, Nov 7, 2018 | Reserve Day or morning racing                           |
| Sun, Nov 8, 2018 | Day 8 Reserve Day or morning races                      |



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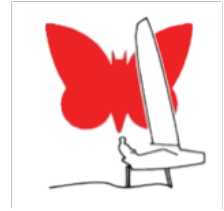


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| Day               | Scheduled Events                               |
|-------------------|--|
| Mon, Nov 9, 2018  | Day 9 Finals Races 1, 2, 3                     |
| Tue, Nov 10, 2018 | Day 10 Finals Races 4, 5, 6                    |
| Wed, Nov 11, 2018 | Day 11 Finals Races 7, 8, 9 + closing ceremony |



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# Financials

## Overview

The event is to be funded by entry fees and sponsorships. It is the intent that entry fees for the combined Australian Nationals and World Championships will be kept below \$500 per entrant, including the IMCA fee. This is subject to there not being any significant change in the value of the Australian Dollar over the coming years.

It is anticipated that the management of the finances for the event will be co-operative, with the primary stakeholders being the South of Perth Yacht Club, IMCA-WA, IMCA and IMCA.

## Event Sponsorship Opportunities

In order to offset the costs of aspects of the event, sponsorship opportunities will be made available for the following opportunities:

- Event Naming Rights (Tier 1)
- Tier 2 Sponsors
- Post Racing BBQ's

Given the global nature of the event, sponsorship opportunities will be offered to both local, interstate and overseas companies.

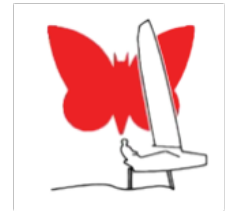
In return for the sponsorship funds, sufficient exposure will be provided for the sponsors, commensurate with the level of support provided by the sponsor. A tiered system of sponsorship will be made available.

In regards to sponsorship, it is the intent that only a Naming Rights Sponsor and Tier 2 Sponsors will be required to deliver the main requirements of the regatta that is to provide a world class event on the water for the participants. As planning progresses, additional opportunities for sponsors may be made available in order to further enhance the event in the following ways, or other opportunities that may arise:

- Spectator Boat
- Daily and Overall Video production
- Fleet tracking and performance statistics
- Youth Sailor Support



South Of Perth Yacht Club



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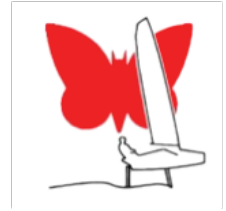
## Preliminary Budget

The following is a preliminary budget in prepared on the basis of 90 competitors. Should South of Perth Yacht Club be successful a more detailed budget will be prepared as planning progresses and more details are known.

| Item                            | \$AUD         |
|---------------------------------|---------------|
| Cash on Hand (forecast)         | \$5,000.00    |
| <b>Income</b>                   |               |
| Entry Fees (90 entries x \$500) | \$40,000.00   |
| Major Sponsors                  | \$15,000.00   |
| Junior Sponsors                 | \$5,000.00    |
| Total Income                    | \$56,000.00   |
| <b>Expenses</b>                 |               |
| Insurance                       | (\$5,000.00)  |
| Media & PR                      | (\$20,000.00) |
| SOPYC costs                     | (\$10,000.00) |
| Support & Spectator Craft       | (\$3,000.00)  |
| Marketing                       | (\$5,000.00)  |
| Merchandise                     | (\$5,000.00)  |



South Of Perth Yacht Club



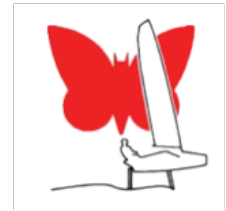
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| Item              | \$AUD         |
|-------------------|---------------|
| Prizes            | (\$3,000.00)  |
| Miscellaneous     | (\$10,000.00) |
| Total Expenses    | (\$61,000.00) |
| <b>Net Income</b> | Nil           |





South Of Perth Yacht Club



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# Race Committee

## ISAF Compliance

The organising committee will ensure compliance with all ISAF requirements for the Race Committee. Some additional details regarding the race committee are detailed below.

## Personnel

A Principal Race Officer will be quickly identified in order to run the Moth Worlds 2018 should we be successful in our bid to host.

Additional personnel will be sourced from the South of Perth Yacht Club Club, as well as other Yacht Clubs on the Swan River (There are 8 other clubs on the river, as well as 4 other ocean clubs in the metropolitan area).

As a legacy of Perth 2011 there are a significant number of race officials who have had exposure to the requirements of supporting a PRO on a course for a significant international event.

## Race Consultant

The Organising Committee will work co-operatively with the IMCA nominated race consultant in order to ensure that the plans for the event are in alignment with the expectations of IMCA. Subject to the location of the Race Consultant, regular communications by e-mail, Skype and phone will be arranged in order to progress the arrangements.

## International Jury

The Organising Committee will work with IMCA, Yachting WA, Yachting Australia and ISAF to arrange and provide for a compliant International Jury.

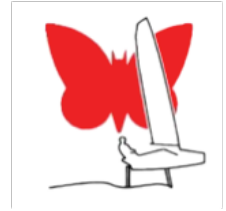
The International Jury will be provided with access to a suitable boat for their use during the event, and sufficient space in the race committee office to complete their required business.

## Measurement

The Principal Measurer will be provided by IMCA, and space will be allocated to enable the Principle Measurer to perform all measurement duties in the lead up to the event, and during competition.



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It will be ensured that sufficiently trained and qualified measurers will be available at the event to support the Principle Measurer.



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# On The Water

## Regatta Courses

Laying of the Regatta courses will be the responsibility of the PRO, however the PRO will be instructed to prepare a course which will take approximately 35 minutes for the first boat to complete in the prevailing conditions.

In order to successfully plan for fleets greater than or less than 80 boats, the organising committee intends to use the following course types.

1a 1

### Course

Start - 1 - 1a - 2

1 - 1a - 2 for as many laps as deemed necessary

On last lap finish between Start Boat and Mark 2

Start Finish 2



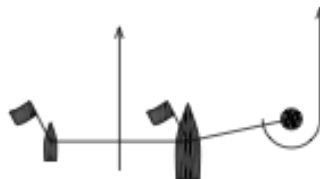
South Of Perth Yacht Club



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### Less than 80 Boats

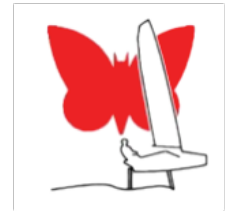
If less than 80 boats are to be racing at the event then a single windward leeward course is to be used. The



length of the course and the number of laps to be at the discretion of the race committee, and will be detailed further in the sailing instructions.



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### Greater than 80 Boats

If greater than 80 boats are to be racing at the event then a trapezoidal double windward leeward course is to be used, arranged as follows. The Fleet will be split in half, with the first start to sail on the outer windward leeward course after completing the first beat on the inner course and reaching across to the outer windward mark.

After the first three days of qualifying racing the fleet will be classed in to Gold and Silver and the remaining days raced as finals. Based on previous world championships, this is the likely course arrangement to be used, given that there are likely to be in excess of 100 competitors at the event.



#### Course Fleet 1

Start - 1 - 1a - 3 - 4

3 - 4 for as many laps as deemed necessary

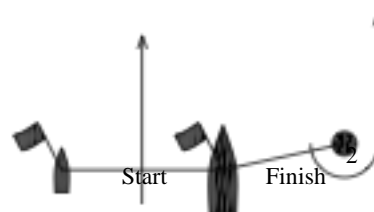
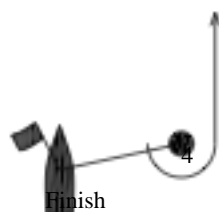
On last lap finish between Finish Boat and Mark 4

#### Course Fleet 2

Start - 1 - 1a - 2

1 - 1a - 2 for as many laps as deemed necessary

On last lap finish between Start Boat and Mark 2







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## Course Location

The racing will be held primarily on “Melville Water”. This is a body of water at the western end of the main expanse of the Swan River. An indicative location for “Melville Water” is shown in the below image.



## Safety Coverage

The South of Perth Yacht Club safety management plan will be reviewed in the lead up to the event to ensure that it covers the requirement of a fleet of 100+ high performance boats.

On the assumption that a ratio of 1 safety boat to 10 competitors is a suitable ratio, it is anticipated that as a minimum 10 safety boats will be required. The primary characteristics of safety boats will be that they are RIB type as these are more practical in the recovery of Moths back to the beach.

## Safety Officer

The Organising Committee will select a Safety Officer who's responsibility will be the preparation and execution of a suitable safety management plan for the event. The Safety Officer will be on hand at all times during racing and available to co-ordinate suitable response to an emergency during the event.

A suitable communications network will be established between the safety boats and the Safety Officer, most likely using VHF radios on a free frequency not being used by the race committee



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It is anticipated that the safety officer will have a background in this type of work be it nursing, paramedic or other form of first responder / crisis management training.

## Medical Assistance

A number of major medical facilities with Emergency Departments are available within a short distance of South of Perth Yacht Club . These are summarised in the below table<sup>1</sup>.

| Facility                      | Location                         | Distance and Time from SOPYC |
|-------------------------------|----------------------------------|------------------------------|
| Sir Charles Gairdner Hospital | Hospital Ave, South of WA 6009   | 3.4km Approx 8 Minutes       |
| Royal Perth Hospital          | Victoria Square, Perth, WA, 6000 | 9.1km Approx 16 Minutes      |
| Fremantle Hospital            | Alma St, Fremantle, WA 6160      | 16.2km Approx 25 Minutes     |

Maps and Suggested Routes are included in the Attachments.

## Check In / Check Out

A system to check in and check out boats from the racecourse will be developed. There are many possible solutions to this problem. Some of these are summarised below, and closer to the event the most practical and effective system will be adopted.

Sign On / Sign Off sheets

Tag On / Tag Off Disc Board

Use of Designated, numbered bays for each competitor. Boats to return to designated bay at end of sailing each day

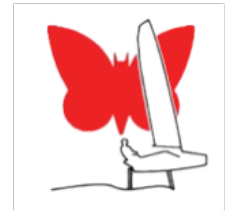
Electronic Tag On / Tag Off system

A team of Beach Support volunteers will assist in the management of boat trolleys in order to prevent congestion, and these personnel may be utilised to also support the Check In / Check Out process before and after racing.

<sup>1</sup> Times and distances as per Google Maps. Traffic Conditions may extend these times.



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## Jury Boat

A Rigid Inflatable Boat of adequate size and power will be available for the Jury to use as required during race days.

## Advertising

The event will be classified as an ISAF Type “C” in respect to advertising on competitors boats, sailors and equipment. A portion of competitors boats will be utilised for the promotion of event sponsors to assist in their return on investment.

## Race Equipment

As a legacy of the 2011 ISAF World Championships (“Perth 2011”) yacht clubs in Western Australia have access to a significant support for the running of a world class regatta such as large inflatable marks, start boats, rescue boats, radios and highly trained race personnel and mark layers (see



<http://www.perth2011.com/galleries/the-perth-2011-legacy/> for more information).

A preliminary estimate of the required On The Water Equipment is as follows, on the basis of a 120 boat fleet running two courses. It is confirmed that South of Perth Yacht Club Club, through partnerships with other WA Yacht Clubs will be able to supply all of this equipment.

| Item                 | Number Required | Notes  |
|----------------------|-----------------|--|
| Start / Finish Boats | 3               | 1 Inner S/F Boat, 1 x Outer Finish Line Boat, 1 x Pin End boat for Start Line. |



South Of Perth Yacht Club

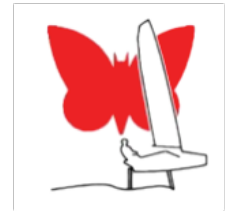


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| Item              | Number Required | Notes   |
|-------------------|-----------------|---|
| Mark Laying Boats | 3               | 1 at Bottom of course supporting Start / Finish Boats<br>2 at the windward marks, one for each course.  |
| Rescue Boats      | 12              | 1 per 10 competing boats with required safety equipment.  |
| Jury Boat         | 1               |   |
| Inflatable Marks  | 10+             | 2 x top marks<br>1 x start line pin end mark<br>2 x finish / bottom mark<br>3 x spare (different colours / markings)<br>2 x top mark separation buoys |
| Media Boats       | 2+              | Subject to Authorised Media requirements  |



South Of Perth Yacht Club



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# Social

All social events related to the 2018 Moth World Championships will be held in the Vicinity of the South of Perth Yacht Club.

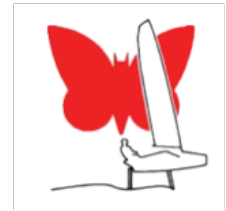
The South of Perth Yacht Club is licensed with various function rooms and bars available.

| Day               | Social Events   |
|-------------------|---|
| Thu, Nov 1, 2018  | Nothing Planned   |
| Fri, Nov 2, 2018  | Post Racing BBQ and Drinks                                      |
| Sat, Nov 3, 2018  | Australian Nationals Prize Giving at after Sailing BBQ          |
| Sun, Nov 4, 2018  | Opening Ceremony  |
| Mon, Nov 5, 2018  | Post Racing BBQ and Drinks                                      |
| Tue, Nov 6, 2018  | Post Racing BBQ and Drinks                                      |
| Wed, Nov 7, 2018  | Mid Regatta Social Event after Racing                           |
| Thu, Nov 8, 2018  | AGM, then Lay Day Activities                                    |
| Fri, Nov 9, 2018  | Post Racing BBQ and Drinks                                      |
| Sat, Nov 10, 2018 | Post Racing BBQ and Drinks                                      |
| Sun, Nov 11, 2018 | Post Racing BBQ and Drinks. Prize Giving Ceremony (incl Dinner) |





South Of Perth Yacht Club



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### **Post Racing BBQ and Drinks**

The intent of the Post Racing BBQ and Drinks is to provide a location for the sailors and spectators to congregate after racing has completed for the day. Similar to the 2011 Belmont worlds, the BBQ will be sponsored daily and free to competitors and volunteers.

In addition to the BBQ, should a suitable sponsor be found then a limited supply of beverages could also be supplied to competitors and volunteers. The supply of drinks as well as food was successfully adopted at the 2002 Grolsch 5o5 worlds in Fremantle and was a great success.

### **Mid Regatta Social Event**

Social events as noted in the above schedule will be available free of charge to competitors and volunteers. Supporters will be able to attend for a moderate charge.

### **AGM**

The AGM will be scheduled for the morning of the lay day at the South of Perth Yacht Club .

### **Lay Day Activities**

Sailors will be given the opportunity to participate in different organised social activities on the lay day.

Perth is surrounded by a significant number of attractions. Although final plans would need to be made considerably closer to the event in order to meet the requirements of the operators, the following could be considered as an organised event on the Lay Day:

Swan Valley Cruise or Bus Tour

Fremantle (incl Maritime Museum, home of Australia II, Fremantle Prison)

Perth Zoo

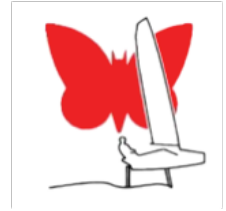
Adventure World

Rottneest Island

AQWA - Hillarys Boat Harbour



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# Spectators

## On the Water

It is the intent of the organising committee that a spectator boat or boats will be made available for the event. Whilst the exact boat cannot be confirmed at this early stage, there are a significant number of charter boat operators who have vessels available for hire on the river.

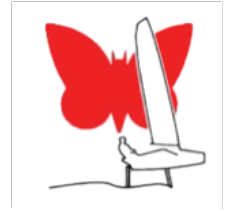
Subject to the costs of running the spectator boat, this may be a free service or require spectators to pay for the use of the spectator boats.

Further reasearch and discussions with the operators of these vessels will be required before a particular boat or boats are engaged, however it would be anticipated that this service could be supplied at a number of levels, including a fully catered spectator experience, including commentary from experienced sailors. Please see below a selection of the vessels available for charter on the Swan River which would be representative of the vessels available to perform this task.





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## Off the Water

The South of Perth Yacht Club offers views of the proposed race course directly from the club grounds, and as such some viewing of racing could be possible from the clubhouse.

There are also a number of elevated vantage points adjacent to South of Perth Yacht Club that offer good views of the race area.



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# Communications

## **Race Committee with Competitors**

The Race committee will be provided with a notice board on which all official notices to the competitors will be made.

These formal notices will also be able to be followed up using the event website and social media accounts.

## **Race Committee On the Water**

The race committee will be allocated an appropriate VHF channel for the on the water race management. This channel will be separate to the safety management frequency.

## **On Site Internet**

It is the intent of the Organising Committee that sufficient internet connectivity will be made available to the competitors and race committee during the event.

This system will consist of a general access WiFi network at the South of Perth Yacht Club as well as the provision of a limited number of workstations for general use.

## **Schedule, Results and Competition Information**

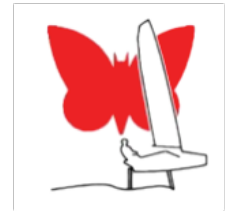
Schedule, Results and Competition information will be available on at the South of Perth Yacht Club notice board, as well as the event website.

## **Press Officer**

A press officer will be appointed in order to compile and distribute results and press releases to the Moth Class website and other interested media outlets.



South Of Perth Yacht Club



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# Other

## **Golden Cleat**

A highlight of all Australian Moth Championships is the running of the “Golden Cleat” tipping competition. It is anticipated that this fun side event would be organised and run during the 2018 Moth Worlds at South of Perth Yacht Club and sufficient “Prizes of Dubious Quality” would be sourced for the successful tipsters.

## **Fleet Support**

A wide selection of Chandleries, Sailmakers and boat builders are available in Perth, many only a short drive from the South of Perth Yacht Club. Where possible the event organisers will encourage a selection of these companies to have support available at the event.

## **Junior / Youth Sailor Support**

Should a suitable sponsor be sourced, a scheme to support successful overseas or interstate youth Moth sailors to attend the 2018 Moth World Championships will be investigated. This has worked successfully in other “adult” classes and ensures a “Next Generation” of sailors is exposed to Moth sailing at the highest level.

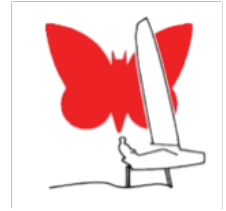
## **Environmental Awareness**

The event will be run with the preservation and improvement of the environment in mind. Where possible decisions relating to the organisation of the event will be made with the environmental consequences in mind. If deemed practical, investigations will be made into options to certify the event “Environmentally friendly”.





South Of Perth Yacht Club



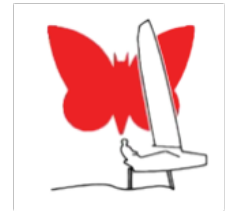
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# Attachments

1. Wind Data for “Perth Metro” and “Perth Airport”
2. Medical Facility locations and directions



South Of Perth Yacht Club



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# **Rose of Wind direction versus Wind speed in km/h (12 Jan 1994 to 08 Mar 2011)**

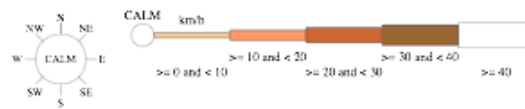
Custom times selected, refer to attached note for details

## **PERTH METRO**

Site No: 009225 • Opened Feb 1993 • Still Open • Latitude: -31.9192° • Longitude: 115.8729° • Elevation 24 m

An asterisk (\*) indicates that calm is less than 0.5%.

Other important info about this analysis is available in the accompanying notes.



9 am Nov  
478 Total Observations

Calm \*

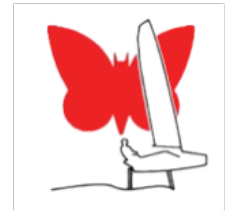


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South Of Perth Yacht Club



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# Rose of Wind direction versus Wind speed in km/h (12 Jan 1994 to 08 Mar 2011)

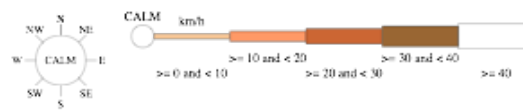
Custom times selected, refer to attached note for details

## PERTH METRO

Site No: 009225 - Opened Feb 1993 - Still Open - Latitude: -31.9192° - Longitude: 115.8728° - Elevation 24 m

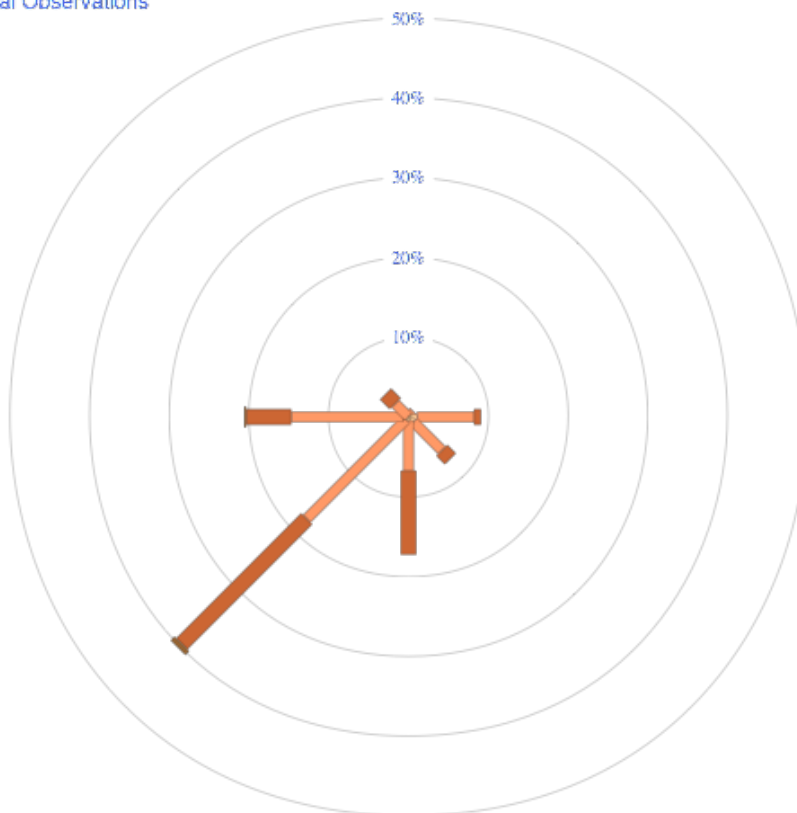
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3 pm Nov  
478 Total Observations

Calm \*

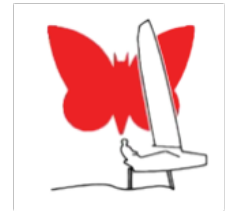


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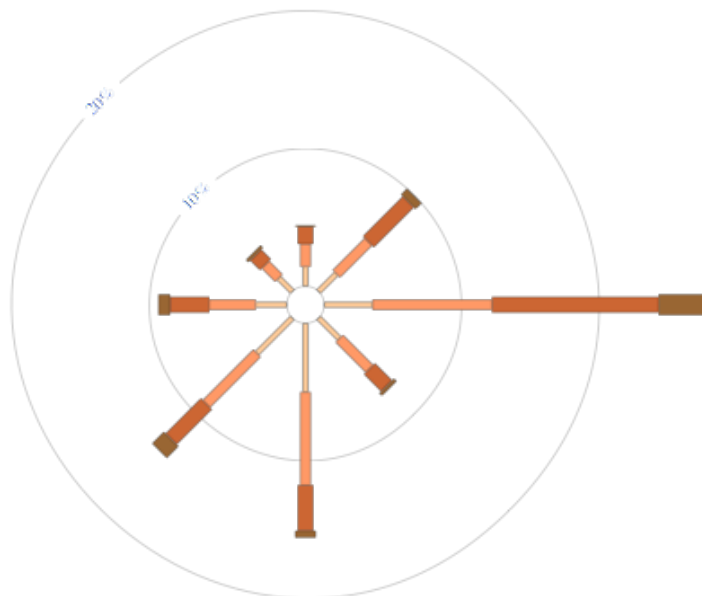
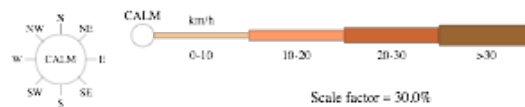


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**WIND FREQUENCY ANALYSIS (in km/h)**  
**PERTH AIRPORT STATION NUMBER 009021**  
**Latitude: -31.93 ° Longitude: 115.98 °**

9 am Nov  
 1799 Total Observations (1944 to 2004)

Calm 7%



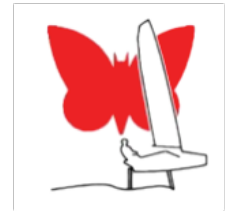
Wind directions are divided into eight compass directions. Calm has no direction.  
 An asterisk (\*) indicates that calm is less than 1% .  
 An observed wind speed which falls precisely on the boundary between two divisions (eg 10km/h) will be included in the lower range (eg 1-10 km/h). Only quality controlled data have been used.



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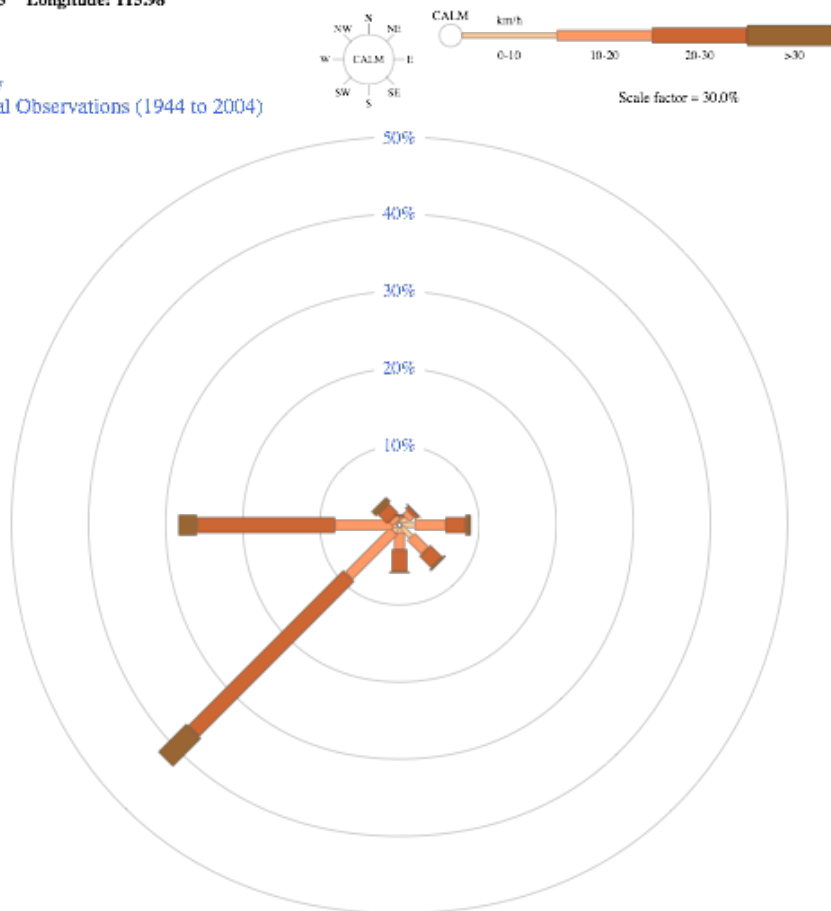


IMCA WA

**WIND FREQUENCY ANALYSIS (in km/h)**  
**PERTH AIRPORT STATION NUMBER 009021**  
**Latitude: -31.93 ° Longitude: 115.98 °**

3 pm Nov  
 1796 Total Observations (1944 to 2004)

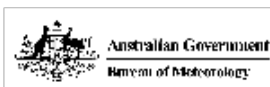
Calm 1%



Wind directions are divided into eight compass directions. Calm has no direction.

An asterisk (\*) indicates that calm is less than 1% .

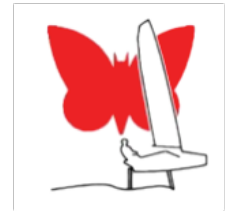
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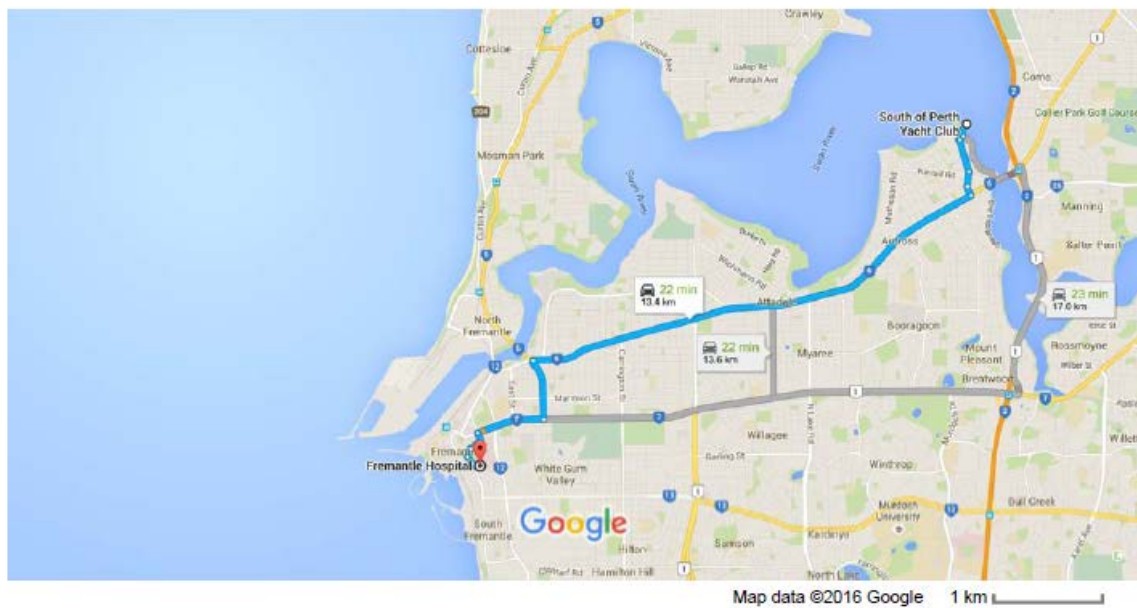


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Google Maps

South of Perth Yacht Club to Fremantle Hospital

Drive 13.4 km, 22 min

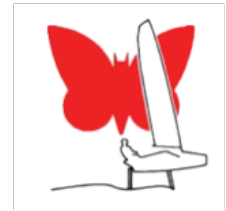


Google Maps





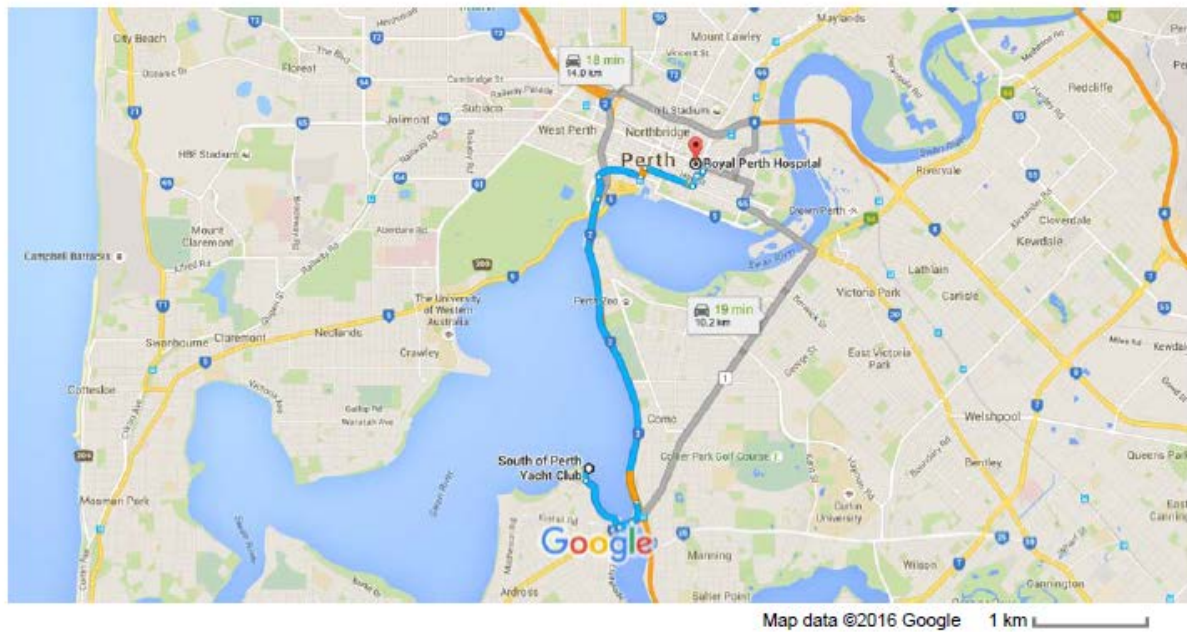
South Of Perth Yacht Club



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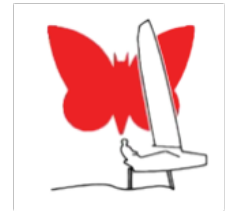
South of Perth Yacht Club to Royal Perth Hospital Drive 10.4 km, 17 min



Google Maps



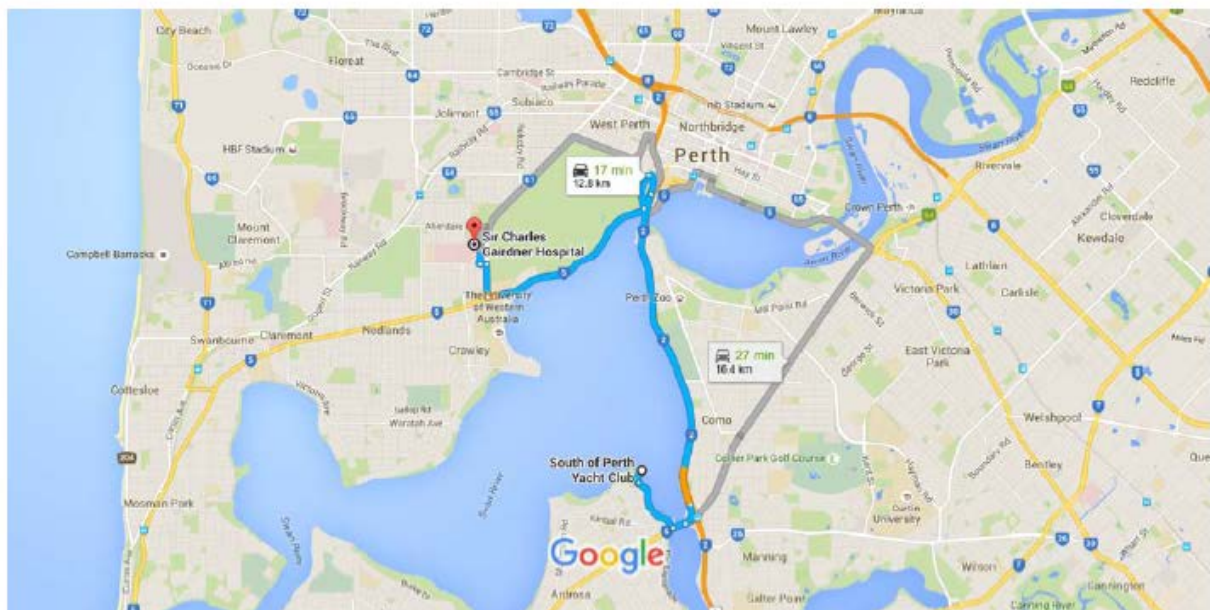
South Of Perth Yacht Club



IMCA WA

Google Maps

South of Perth Yacht Club to Sir Charles Gairdner Hospital Drive 12.8 km, 17 min



Map data ©2016 Google 1 km

Google Maps