



2<sup>nd</sup> FAI  
**WANR**  
WORLD AIR NAVIGATION RACE  
SANTA CRUZ BEACH - PORTUGAL  
2019



2<sup>nd</sup> FAI ANR

**WANR**

**CHAMPIONSHIP**

WORLD AIR NAVIGATION RACE  
SANTA CRUZ BEACH - PORTUGAL  
2019

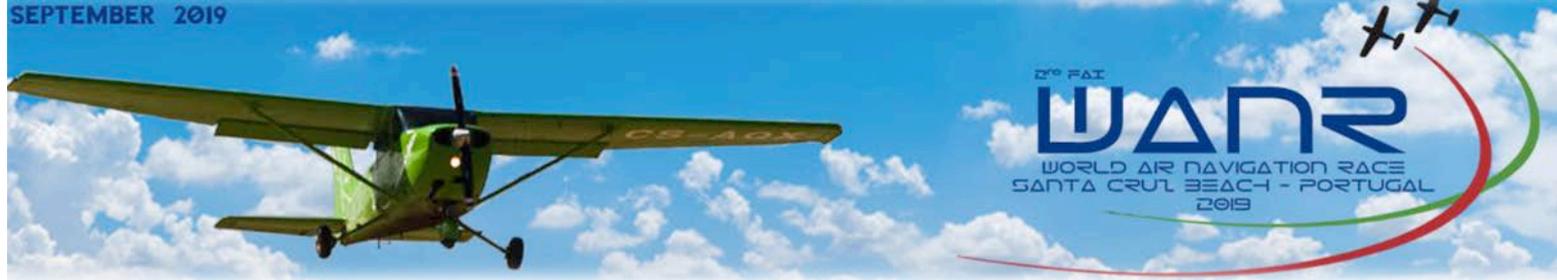
# 2<sup>nd</sup> FAI WORLD AIR NAVIGATION RACE CHAMPIONSHIP 2019

## LOCAL RULES

SANTA CRUZ BEACH AIRFIELD (LPSC) - PORTUGAL

SEPTEMBER 5<sup>th</sup> to 14<sup>th</sup> 2019





**C. LOCAL REGULATIONS**

**C.1 Introduction**

The following local regulations for the **2<sup>nd</sup> FAI World Air Navigation Race Championship**, should be used together with FAI/GAC Rules and Regulations for ANR, edition 2017 and the FAI Sporting Code - General Section and Section 2, and other FAI documents for organization of the FAI First Category Events.

The **2<sup>nd</sup> FAI World Air Navigation Race Championship 2019** organization was proposed to the World Air Sports Federation FAI-GAC, on the 2017 Annual Meeting, in Paris, by *Aeroclube de Torres Vedras*, with the support of the Portuguese Aeronautical Federation (FPA) and is intended to take place from **5th and 14th September 2019**.

This event will be the second World Air Sport Championship in Santa Cruz Beach Airfield, after our successful organization of the 20th FAI World Rally Flying Championship in 2016, that joined 51 crews from 18 Countries, during several days, getting the most of the mystic Santa Cruz Beach Airfield (LPSC), the most western in Continental Europe, with 87 years old, and just few meters from the sea, hotels and restaurants, where pilots could relax on our awarded beaches\*.



Santa Cruz Aerodrome aerial view from South



Santa Cruz, considered one of 50 World Best Beaches \*

\*Condé Nast Traveller Awards for 50 Best World Beach

<http://www.traveler.es/viajes/rankings/galerias/las-50-mejores-playas-del-mundo/206/image/9304>



## C.2 Organizer

The 2<sup>nd</sup> FAI World Air Navigation Race Championship will be organized by Aeroclub de Torres Vedras in Santa Cruz (Official Contacts Below) in cooperation with the Portuguese General Aviation Commission of Portuguese Aeronautic Federation (FPA).



**AEROCLUBE TORRES VEDRAS**  
 Aeródromo Municipal da Praia de Santa Cruz  
 2560-470 Silveira  
 Portugal

**Website:** [www.santacruzworldanr2019.com](http://www.santacruzworldanr2019.com)

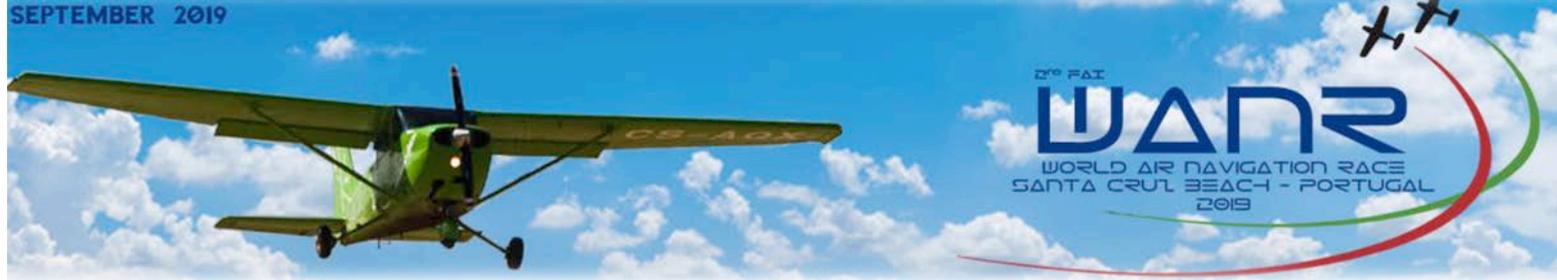
**Email:** [info@santacruzworldanr2019.com](mailto:info@santacruzworldanr2019.com)

## C.3 Place

The event will take place at the **Santa Cruz Airfield (LPSC)**, located 60 km North of Lisbon, 15 Km of Torres Vedras City, just a few meters from the beach and village of Santa Cruz.

The village center, hotels, restaurants and other service are easily accessible in 5/10 minutes, walking distance from the Santa Cruz Airfield.





Facilities and designated areas for teams, organization's officials, car parking for competitors, bar, toilets, and other services will be available inside the airfield.

In order to allow teams best prepare the flights during this preparation event, organization have classrooms on the airfield, equipped with Wi-Fi and video projectors dedicated for the teams.

**Santa Cruz Airfield (LPSC) Operational Data:**

GEOGRAPHICAL COORDINATES

Santa Cruz Airfield (LPSC) - Santa Cruz Beach - Torres Vedras

N 39° 07' 23" W 009° 22' 47"

Elev. 49 m (161 feet)

RUNWAYS

RWY 35-17 – Asphalt 635x23m

RWY 35-17 – Compact soil 1050x25m (only during competition days)



**a) Facilities:** Refueling station (100LL, AEROSHELL W100), maintenance (EASA PART M), public phones, restaurant, hangars, different buildings.

**b) Frequency:** Santa Cruz Info **122,350 MHz**

Coverage: 15NM FL030 Emission type A3E

**Above 1000ft AGL contact:** APP *Sintra* - 118.600MHZ or 123.750MHZ

**Below 1000ft contact:** FIS Centre Freq. 123.750MHZ





## C.4 Dates

|           |                                    |   |
|-----------|------------------------------------|---|
| September | 5 <sup>th</sup> to 7 <sup>th</sup> | Practice days   |
| September | 8 <sup>th</sup> (SUN)              | Final arrival and Teams Registration, Opening Ceremony      |
| September | 9 <sup>th</sup> (MON)              | First competition flight – 1 <sup>st</sup> navigation test  |
| September | 10 <sup>th</sup> (TUE)             | Second competition flight – 2 <sup>nd</sup> navigation test |
| September | 11 <sup>th</sup> (WED)             | Third competition flight – 3 <sup>rd</sup> navigation test  |
| September | 12 <sup>th</sup> (THU)             | Reserved Day  |
| September | 13 <sup>th</sup> (FRI)             | Price Giving and Closing Ceremony, First Departures         |
| September | 14 <sup>th</sup> (SAT)             | Departures  |

The Championship director may change this schedule.

## C.5 Entries

### C.5.1 The Preliminary Entries

The Preliminary Entry Forms should be sent No Later, than

**March 31<sup>st</sup> 2019**

to the address, stated in **C.2** by mail or e-mail.

### C.5.2 List of Preliminary Entries and Official Entry Forms

The list of Preliminary Entries and Official Entry Forms will be sent to those National Aero Clubs from which the Organizer has received the Preliminary Entry Forms.

### C.5.3 The Official Entries

The **Official Entry Forms** together with Entry Fees (see **C.6**) suppose to be sent no later, than

**June 20<sup>th</sup> 2019**

to the address, stated in **C.2** by mail or E-mail.

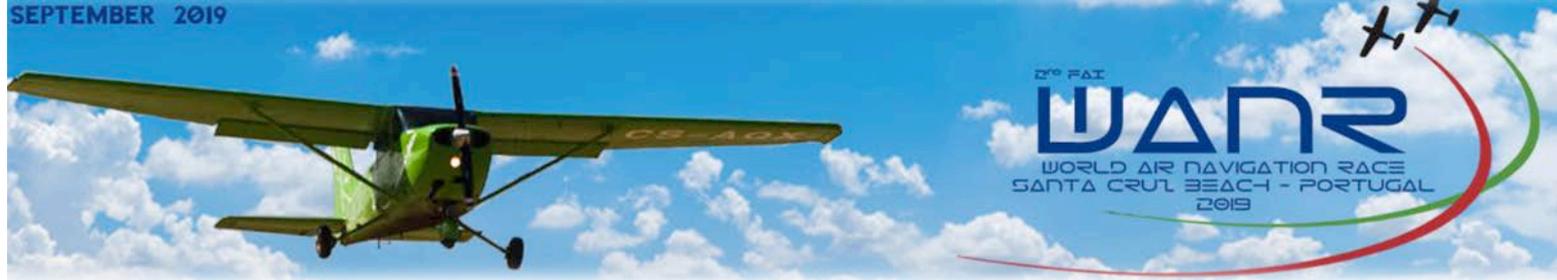
### C.5.4 Entry Fees

Entry Fees received after **June 20<sup>th</sup> 2019**, can only be accepted at the discretion of the organizer, and will be considered as Late Entry Fee.

Late Entry Fee may be accepted by the Organizer only if there are vacancies and only together with late entry fee (see **C.6**).

### C.5.5. Non acceptance of Entries

No Entries can be accepted after **June 30<sup>th</sup> 2019**. After this date up to official start of the Championships only personal changes in official entries can be accepted.



**C.5.6 List of Official Entries**

The list of Official Entries will be sent after to those National Aeroclubs from which the Organizer has received the Official Entry Forms.

**C.5.7 Final entries without Entry Fees**

If a NAC sends a final entry but fails to pay the required entry fee, that NAC shall lose its right to participate in Championships until the fee is paid.

**C.6 Entry Fee**

The Entry Fee has to be payed for each Pilot, Navigator, Team Manager, International Judge, Engineer, Supporter, Observer and accompanying person.

**C.6.1 The entry fee for each category is set below:**

|  |                |                |
|--|----------------|----------------|
| For the aircraft:                            |                | NONE           |
| Crew members(for each competitor)            | in double room | <b>EUR 790</b> |
| For each additional team members             | in double room | <b>EUR 550</b> |
| For International Judge Max.2 per country    | in double room | <b>EUR 350</b> |
| Additional International Judge and Observers | in double room | <b>EUR 550</b> |
| Supporters (non competitors)                 | in double room | <b>EUR 550</b> |
| For single room                              | plus           | <b>EUR 150</b> |

Extra day full board, before/after the competition in double room EUR 80

Extra day full board, before/after the competition in single room EUR 100

Organizer must receive entry fee before **June 20<sup>th</sup> 2019**.

Payment received and accepted by Organizer after **June 30<sup>th</sup> 2019** must be accompanied by an additional amount of **EUR 150, per person**, as Late Entry Fee.



The entry fee must be paid to:

Account name: **Aeroclube de Torres Vedras**  
 Bank Name: **Banco BPI, SA**  
 Bank Address: Rua Tenente Valadim,  
 284 – 4100-476 Porto  
 Account Address: Largo da Igreja , nº 3 – 2560-535 Silveira  
 SWIFT CODE/BIC: **BBPIPTPL**  
 IBAN: **PT50001000003119167000228**

C.6.2 Each entry form is considered as accepted only when the Organizer acknowledges it; the acknowledgement will only be given when the Entry Fee (Late Entry Fee) has been received by the Organizer.

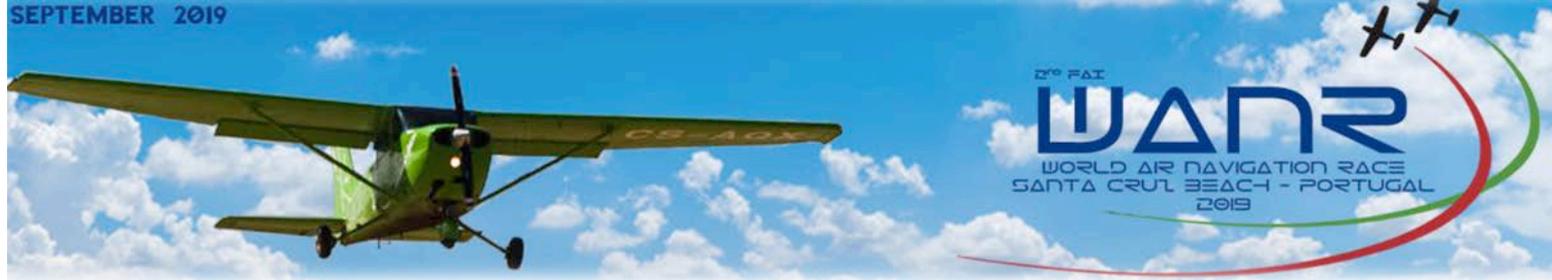
### C.6.3 The entry fee includes

Accommodation in double room from September 8<sup>th</sup> to September 14<sup>th</sup>, which means 6 nights included 6 breakfast, 6 lunches and 5 dinners, opening and closing ceremonies, excursion, FAI Sanction Fee for competitors. Every crew will receive two competition map for each navigation test. The regular Entry fee covers accommodation in one of Hotels of the competition\* according to availability. Extra nights for the training period will be available at reasonable prices

**\*Hotels of the competition:** According to the number of competitors nearby hotels will be chosen for the competitors 1<sup>st</sup> Option “Pousada Santa Cruz”, 2<sup>nd</sup> Option “Hotel Santa Cruz”, 3<sup>rd</sup> Option “Hotel Praia Azul” 4<sup>th</sup> Option Hotel Golf Mar

C.6.4 Cancellation of entries is possible:

- before the final entry date, **June 30<sup>th</sup> 2019**, without deduction of administration fee.
- after the final entry date, cancellation will be deducted by 10 % of the entry fee for each entrance.
- later than **June 20<sup>th</sup> 2019** only 50 % of the entry fee will be reimbursed.



### C.7 Team members

- C.7.1 A team manager who preferably should not be a competing pilot but shall head each national team.
- C.7.2 Each participating country is allowed to send as many crews as they decide without any maximum, as approved in GAC meeting.
- C.7.3 Each participating country is entitled to send International Judges/Judge and Observers.
- C.7.4 Each competing pilot has to be holder of a valid ULM, private pilot license or higher grade license, as well as a valid FAI Sporting License.
- C.7.5 Validation of license:

For competitors who need to validate their licence in Portugal, all necessary information will be available upon request. Limit Time will be published in Bulletin No 1

The pilots must be able to document in the form of declaration of the respective countries authorities that their certificate is in accordance with ICAO Annex I. If the evidence is not sufficient, pilot training may be needed to fulfill the requirements as imposed in ICAO 1178/2004 Annex III section. 5 to be flying in a Portuguese registered aircraft. Furthermore pilots must document a radio license with a language level of English equivalent to a minimum of grade 4 according JAR-FCL 055 and a valid aeromedical health certificate.

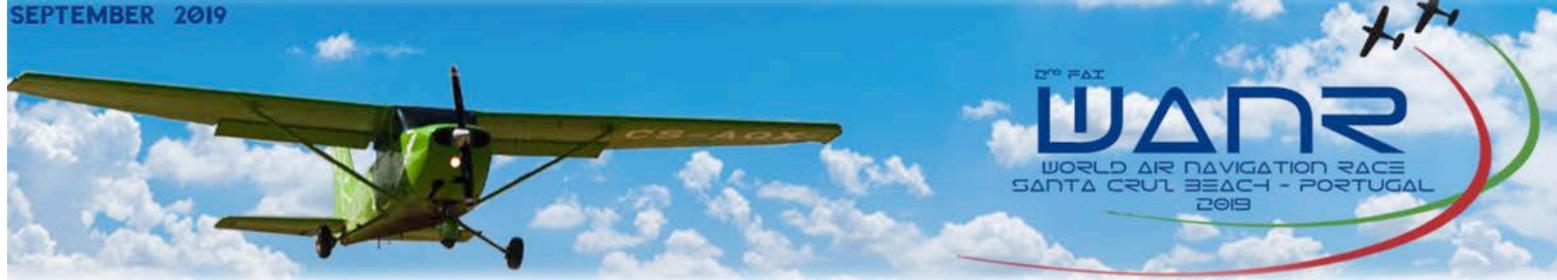
- C.7.6 All flight operations during the competition have to be conducted in accordance with national Portuguese Aeronautical Rules and Regulations. <https://www.nav.pt/en/ais/vfr-manual/vfr-manual>

### C.8 Aircraft and Insurance

- C.8.1 Each competing aircraft must possess a Certificate of Airworthiness and must be operated in accordance with the aircraft manual.
- C.8.2 For all civil aircraft using the airspace of Portugal liability insurance has to be concluded with respect to damages caused by operation of that aircraft to the third parties covering a minimum amount in SDR (Special Drawing Rights) or in equivalent value of any other freely convertible currencies, for the aircraft with MTOM as mentioned below:
- a) MTOW up to 999 kg € at least EUR 1.800.000
  - b) MTOW above 1000 kg to 2699 kg at least EUR 3.600.000

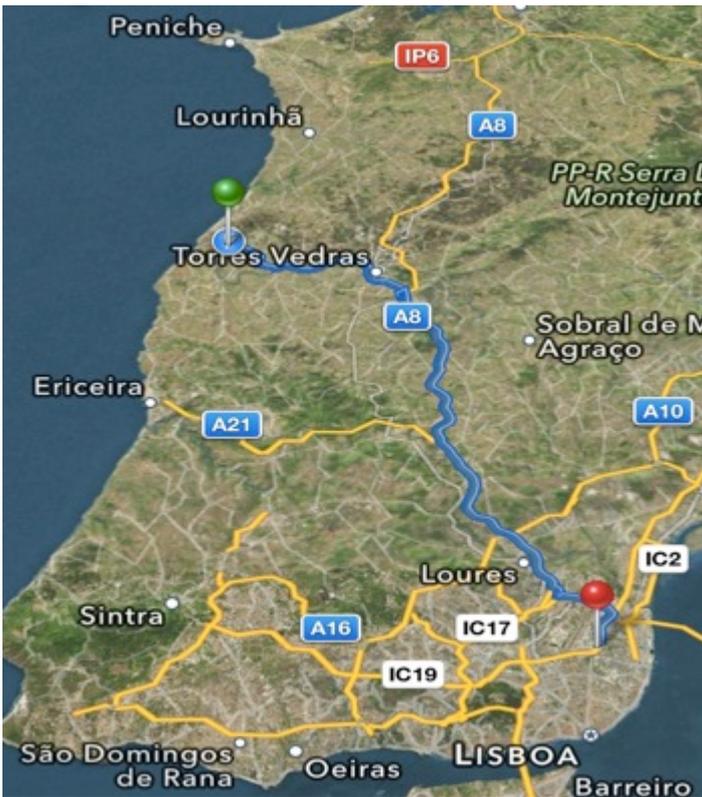
Each competing aircraft must be insured against 3<sup>rd</sup> Party Public Liability claims with a minimum amount as mentioned above according to MTOM. Aircraft arriving in the Portugal must be able to present the policy with a copy in English, certified by the Insurance Company.

- C.8.3 Health and Injury Insurance is entirely on the Participants' own responsibility. The Organizer or the state of Portugal cannot take any responsibility for personal injury or health issues for the participants.



**C.9 Arrivals**

C.9.1 Travel by commercial Airlines, arrivals may go to Lisbon Airport, which are located 45 km from Santa Cruz. More information will follow in Competition Information Bulletins. According to the actual Rules Pilots from Schengen Zone, using own aircraft may arrive directly to Santa Cruz Beach Airfield after submitting a Flight Plan accordingly.

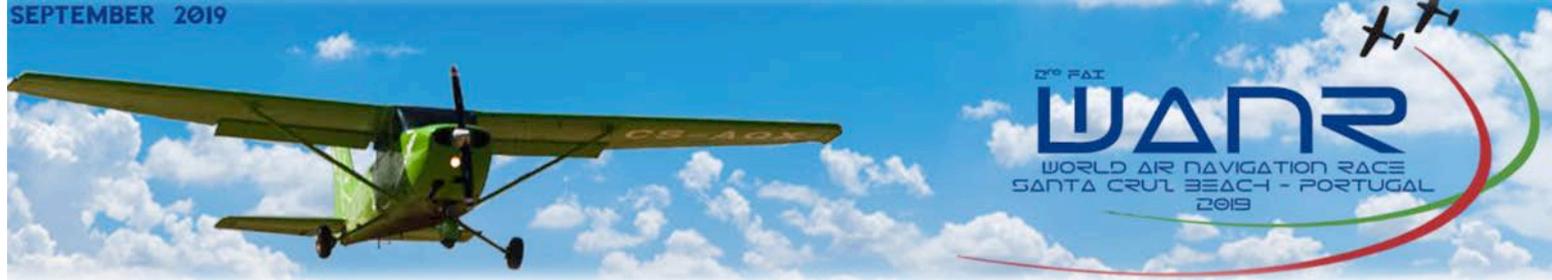


**By Air** – The access to Portugal by Lisbon International Airport(LPPT/LIS), 60 km away.

**By Bus** – Several daily Bus from Lisbon to Torres Vedras, and from Torres Vedras to Santa Cruz

**By Car** – Take A8 highway from Lisbon or from Porto. The highways A25, A23, A24 and A6 are connected to the highway A8 and comes from Spain.

The access to Santa Cruz beach and Airfield are properly marked along the roads.



### C.9.2 Radio Equipment Requirement 8,33 kHz

As required by Commission Implementing Regulation (EU) No 1079/2012 of 16 November 2012, laying down requirements for voice channels spacing for the single European sky, applicable to all flights operating as general air traffic within the airspace of the ICAO EUR region, all radios shall have the 8,33 kHz channel spacing capability, with the exception of ground radios operated by air navigation service providers, and an operator shall not operate an aircraft in airspace where carriage of radio is required unless the aircraft radio equipment has that capability.

### C.10 Language

All rules, regulations, information, briefings and tasks for competitors will be in English language only.

### C.11 Briefings

- C.11.1 All briefings will be in accordance with the current FAI/GAC AIR NAV RULES AND REGULATIONS.
- C.11.2 During competition days there will be a Met Briefing. In addition all information will be posted on the Information Board
- C.11.3 Opening briefing on competition rules, regulations and other information, mandatory for all participating pilots and team managers will be on Sunday, **September 8<sup>th</sup> 2019**.
- C.11.4 A special Judges Briefing, for all international judges, judges observers, local judges, members of computer center and helpers, will be prepared and time and place will be announced in due time.

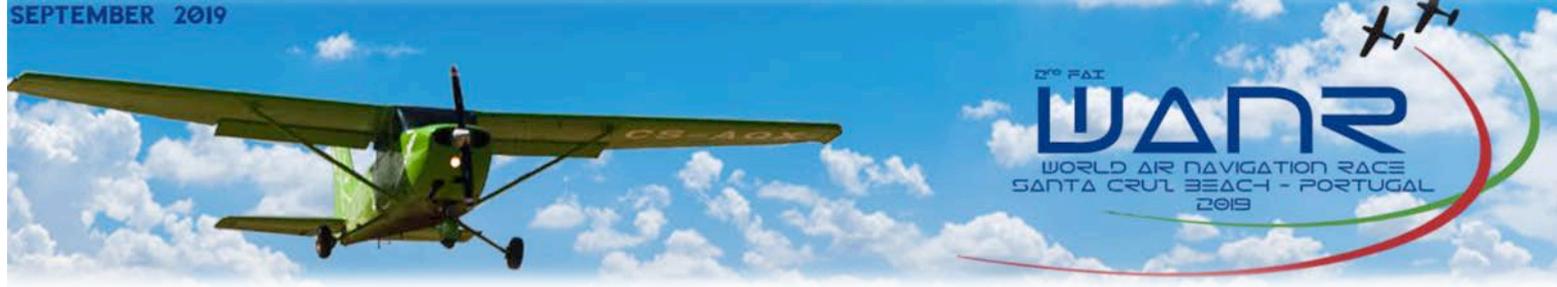
### C.12 Specific rules

#### C.12.1 Aircraft rental

**There will only be a very limited number of aircraft for hire!!! It is strongly recommended to bring your own aircraft.**

- C.12.1.1 Due to lack of airplane to rent is recommended very strongly to attend with your own plane. Aircraft types and rental prices: (Rental fees may be subject to change, see remark C.12.1.3)

- Tecnam                      EUR 100 - per hour wet
- Cessna 150/152            EUR 135 - per hour wet
- Cessna 172                 EUR 170 - per hour wet



Requests should be stated in the Preliminary Entry Forms, sent to the Organizer up to published date (**March 31<sup>st</sup> 2019**) and will be confirmed only when full Entry Fee is paid before **June 20<sup>th</sup> 2019**.

**NOTE:** Aircraft availability not guaranteed due to a very limited number of aircraft for hire

Organizer could use country distance from Portugal, as a factor to give the proper priority for rental aircrafts for crews.

C.12.1.2 The rental of aircraft is anticipated to be handled by the organizer. Price will include aircraft insurance and fuel (only if refueled at Santa Cruz airfield). An extra Fee may be charged to guarantee the transfer of the aircraft from its origin airfield base. All the teams that ask for rental aircraft will divide the Ferry Flights costs.

C.12.1.3 Expected hourly rental prices based on fuel price of **EUR 2.20 per liter**, they may be changed due to inflation, future fiscal legislation within Portugal, fuel price and insurance or other external factors.

**C.12.2 Fuel, oil and other current prices (subject to change)**

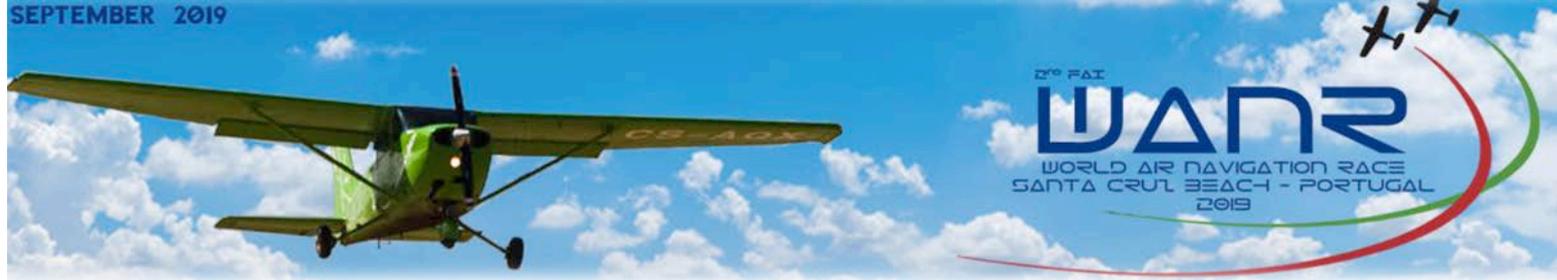
|                              |  |
|------------------------------|--|
| AVGAS 100 LL                 | EUR 2.20/l (may change - see C.12.1.3) |
| AEROSHELL 100W               | EUR 8 (may change - see C.12.1.3)      |
| COMPETITION MAP              | EUR 4                                  |
| AERONAUTICAL CHART 1:200 000 | EUR 16                                 |

**C.12.2.1 Modes of payment**

Payment for all services and aircraft rental shall be made in cash and in EUR only. Any other currencies will not be accepted.

**C.12.2.2 Landing evaluation**

Recording of Landings is to be used exclusively by the Jury while dealing with protests.



**C.13 Competition Map**



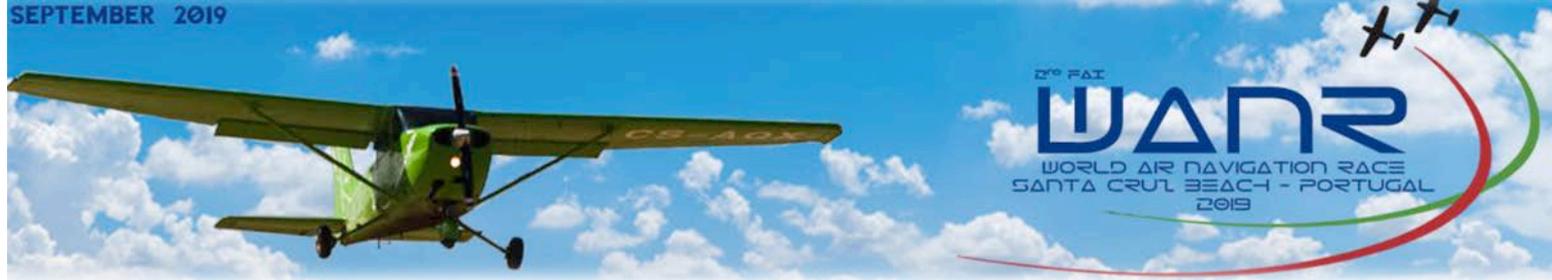
The map to be used for navigation will be in the scale 1: 200 000, printed in multiple colors, provided by Organizer. One copy of the competition maps and competition forms to be used will be sent to each participating Team Manager upon receiving the Official Entry Form and appropriate Entry Fee.

**C.14 Doping Control**

Doping tests may be carried out in accordance with FAI drug rules and doping rules of Portugal and National law regulations Anti-doping Committee of the Portugal.

**C.15. Landing System / Scoring System.**

The German Electronic Landing Scoring System will be used.



## C.16. Use of GPS Loggers.

C.16.1. According to Rally Flying Rules and Regulation, the use of the FAI/GAC approved GPS Loggers is mandatory. Competitors must bring their own equipment, minimum one of them per crew. Each Team should supply at any case cables and software of their own GPS-Logger System

## C.17 Correspondence and communication

C.17.1 Address and Contact for correspondence:

### **Address and Contact:**

Aeroclube de Torres Vedras  
Aeródromo Municipal da Praia de Santa Cruz  
2560-470 Silveira  
Portugal  
Tel: +351 261 937 299

### **Email:**

[info@santacruzworldanr2019.com](mailto:info@santacruzworldanr2019.com)

### **Website:**

[www.santacruzworldanr2019.com](http://www.santacruzworldanr2019.com)

## C.17 Officials:

|   |                                     |
|---|-------------------------------------|
| Competition Director:                       | Mr. João FRANCISCO, Portugal        |
| Competition Director Deputy:                | Mr. Jacques CARRIQUIRIBERRY, France |
| President of the Jury:                      | Mr. Heinrich SCHAWALDER, Swiss      |
| International Chief Judge RF:               | Mr. Maurice DUCRET, Swiss           |
| Jury and International Chief Judge Reserve: | Mr. Jesus MAS, Spain                |
| Scoring Manager:                            | Mr. Armin ZÜGER, Finland            |
| Local Chief Judge:                          | Mr. Victor PINTO, Portugal          |