



*Fédération
Aéronautique
Internationale*



LOCAL REGULATIONS

FOR THE

11th WORLD PARAMOTOR CHAMPIONSHIPS

Competition at

SAQUAREMA, BRAZIL

APRIL, 20TH – 30TH 2022



**PREFEITURA
SAQUAREMA**
TRABALHO E RESPEITO

REVIEW	DESCRIPTION	DATE
Ø	INITIAL VERSION	15/11/2021

AUTHORITY

These Local Regulation combine the General Section and Section 10 of the FAI Sporting Code with regulations and requirements specific to this championship, using Annex3 – Model Local Regulations for Champinships of the FAI as base and where applicable. The FAI Sporting Code shall take precedence over the Local Regulation wording if there is omission or ambiguity.

CLARIFICATION

Classes PF1 (PF1m and PF1f), PL1 and PL2 are “Paramotors”

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Part 1. Applies to all classes

1 PART FOR ALL CLASSES

1.1 GENERAL

The purpose of the championships is to provide good and satisfying contest to determine the World Champion in each class of Paramotor and to reinforce friendship amongst pilots and nations (S10 4.2). Where the word aircraft is read, it is understood to be paramotor and on the contrary it is valid.

All other information relating to the logistics of the championship can be found at the official web site:

<http://wpc2022.com.br>

1.2 PROGRAMME DATES

Official Registration:	April 20 – 09:00 to 17:00
Mandatory Safety Briefing:	April 20 – 17:00 to 18:00
First Team leader meeting:	April 21 – 09:00 to 11:00
Official training task:	April 21 – After 15:00 and April 22 (all day)
Opening ceremony / Parade:	April 22 - 19:30
Contest flying days:	April 23 to 30
Prize-giving & Closing Ceremony:	April 30 - 17:30

- The dates and timings are subject to change. Changes will be posted on the website and on the noticeboard at headquarters.

1.3 OFFICIALS

Event Directors:	Luiz Carlos Laghi Filho (BRA) and Ricardo Maciel (BRA)
Competition Director:	Rogério Martinati (BRA)
Deputy Director:	Ricardo Pettená (BRA)
Monitor:	Barney Townsend (GBR)
Chief Marshal:	Walmir Lima (BRA)
Equipment Manager:	Dhiego Rendeiro (BRA) and Valter Chamisso Coca (BRA)
International Jury :	Richard Meredith-Hardy (GBR), Han Zhaofang (CHN) and Noel Mazaudier (FRA).
Chief Scorer:	Ricardo Baccarelli (BRA) and Zenilson Rocha (BRA)
Stewards:	Ellen Hylebos (BEL)
Airspace Manager:	Mauro Villa (BRA)

1.4 ENTRY

The Championships are open to all Active Member and Associate Member countries of FAI who may enter:

- 6 pilots in class PF1m (Foot Launch, male) + 1 pilot PF1f (Foot Launch, female)
- 6 pilots in class PL1 (Paratrike) + 1 Wheelchair Pilot
- 4 pilots + copilot in class PL2 (Paratrike tandem)

Entries must be made on the official Entry Form. (Website: <http://wpc2022.com.br>)

If applications, with fees paid, are not received by February 01, 2022, the entry may be refused.

- The entry fee is:
- €450 (Five hundred euros) for Pilot and Copilot in Each Class
- €150 (One hundred and seventy euros) for Team Leader, Assistant, Mechanic, Guest.

The entry fee includes:

- Competition operations (setting, controlling, and evaluating the tasks),
- All competition materials (maps, task descriptions, control point atlases, pylons, stickers, etc.),
- Free use of the airfield and free entry to all official events,
- Place for each team with water, electricity and one tent,
- Preferential prices to eat.

Sign Up at the website: <http://wpc2022.com.br>

1.5 REFUND OF ENTRY FEES**1.5.1 EVENT CANCELLATION**

If a CAT 1 event is cancelled or does not take place, all entry fees that have been paid shall be returned in full and no CIMA sanction fees are due.

If a CAT 1 event is stopped by Jury decision or by force majeure, a portion of the entry fees, to be determined by the CIMA bureau, shall be returned. In this instance, CIMA sanction fees shall be paid in full.

1.5.2 WITHDRAWAL FROM A CAT1 EVENT

Participants who withdraw from a CAT1 championship before the start of the official practice period shall be entitled to a refund of part of their entry fees according to the scale below. In this instance, no CIMA sanction fees are due.

30 days (or more) before = 100%

29 days (or less) before = 50%

Participants who withdraw after the start of the official practice period shall receive no refund and CIMA sanction fees shall be paid in full.

1.6 INSURANCE

Personal accident insurance for team members and insurance against damage to aircraft are highly recommended. Documentary proof of insurance as specified on the Entry Form must be presented to the Organizers at Registration.

1.7 LANGUAGE

The official language of the Championships is English.

1.8 MEDALS AND PRIZES

FAI medals will be awarded to:

- Pilots placed first, second and third in each class (including PF1f if in compliance with S10 4.3.2).
- National teams placed first, second and third.
- FAI Diplomas will be awarded for those placed first to tenth.

1.9 CHAMPIONSHIP CLASSES

The Championships may be held in the following classes (S10 1.5):

PF1m + one PF1f, PF2, PL1 and PL2 are paramotors

Each class is a championship in its own right and as far as possible interference of one class by another shall be avoided.

1.9.1 CLASS VIABILITY

For a championship to be valid there must be competitors from no less than 4 countries in a class, ready to fly the first task, and must start a minimum of one task. (S10 4.3.2)

1.9.2 CHAMPIONSHIP VALIDITY

The title of Champion in any class shall be awarded only if there have been at least 6 separate valid tasks in the class and at least one task of each type (navigation, economy, precision) has been valid (S10 4.3.3).

1.10 GENERAL COMPETITION RULES**1.10.1 REGISTRATION**

On arrival the team leader and members shall report to the Registration Office to have their documents checked and to receive supplementary regulations and information. The following documents are required:

- Pilot License and qualifications.
- Evidence of competitor's identity.
- Aircraft Certificate of Airworthiness or Permit to Fly.
- Evidence of conformity to class rules.
- Certificate of Insurance.
- Receipt for payment of entry fees.
- ***Valid FAI Sporting License for Pilot and Navigator
(Will be check before the arrive of the pilots. Make sure is update in the FAI system)***

The Registration Office will be open as indicated on the information board.

Registration forms may be inspected by Team Leaders on request prior to the start of competition flying.

1.10.2 PILOT AND NAVIGATOR QUALIFICATIONS

A competing pilot shall be of sufficient standard to meet the demands of an international competition and hold a valid pilot license or equivalent certificate. Both pilot and navigator must hold an FAI Sporting License issued by his own NAC. The navigator must have reached the age of 14 years.

1.10.3 AIRCRAFT AND ASSOCIATED EQUIPMENT

Aircraft and equipment provided by the competitor must be of a performance and standard suitable for the event. (S10 4.17.1)

Each aircraft must possess a valid Certificate of Airworthiness or Permit to Fly not excluding competition flying. This document must be issued in or accepted by the country of origin of the aircraft or the country entering it or the country of the organizers. (S10 4.17.2)

The aircraft must always comply with the FAI definition of a Microlight or Paramotor (S10 1.3).

The aircraft shall fly throughout the championships as a single structural entity using the same set of components as used on the first day except propellers and carburetor jets may be changed (before a task) to enhance performance providing that the weight limit is not exceeded and the Certificate of Airworthiness or Permit to Fly is not prejudiced. (S10 4.17.4)

All aircraft must be made available during the Registration period for an acceptance check in the configuration in which they will be flown (S10 4.17.3). The organizers have the right to inspect for class conformity and airworthiness and, if necessary, ground any aircraft for safety reasons at any time during the event (S10 4.17.6).

All paramotor must be equipped with a simple method of sealing the fuel tank.

An emergency parachute is highly recommended. The parachute system is defined as “weighing nothing” for the purpose of control weighing (S10 1.3.2).

1.10.4 TEAM LEADER RESPONSIBILITIES

The team leader is the liaison between the organizers and his team. He is responsible for the proper conduct of his team members, for ensuring that they do not fly if ill or suffering from any disability which might endanger the safety of others and that they have read and understand the rules. (S10 4.15.1)

1.10.5 STATUS OF RULES AND REGULATIONS

Once competition flying on the first day has started:

- No rules or regulations may be changed. Any additional requirements within the rules needed during the event will not be retrospective. (S10 4.8.4).
- Competitors may not be substituted, change to another class nor change their paramotor.

1.10.6 PRACTICE & REST DAYS

All the infrastructure for the competition (maps, offices, scoring...) shall be ready for the first day of the official practice period. If is possible, on at least one practice day a task should be flown under competition conditions to test the integrity of the organization. The scores thus generated shall not be counted. (S10 4.7.3)

Rest days will only be held on account of bad weather or unforeseen emergency.

1.10.7 COMPLAINTS (S10 4.35)

A competitor who is dissatisfied on any matter may, through his team leader, make a complaint in writing to the Director.

Complaints shall be made, and dealt with, without delay but in any case must be presented not later than 6 hours after the respective Provisional Score sheet has been published, not counting the time between 22:00 and 07:00, except for the tasks of the last competition day, or for Provisional Score sheets published on or after the last competition day, when the time limit is 2 hours.

A complaint that could affect a task result must be dealt with and answered in writing before any official score sheet is issued. All complaints and their responses must be published on the official notice board.

1.10.8 PROTESTS (S10.4.36)

If the competitor is dissatisfied with the decision about its Complaint, the Team Leader may make a protest to the Director in writing and accompanied by the protest fee of R\$ 300.00 (*Three hundred reais*) (approx. €50.00 *fifty Euros*). The fee is returnable if the protest is upheld or withdrawn before the start of the proceedings. A protest may be made only against a decision of the Championship Director.

A protest must be presented not later than 6 hours after the respective Official score sheet has been published, except for the tasks of the last competition day, or for Official Score sheets published on or after the last competition day, when the time limit is 2 hours. The nighttime between 22:00 and 07:00 is never included.

1.11 FLYING AND SAFETY REGULATIONS**1.11.1 BRIEFING**

Briefings will be held for team leaders and/or competitors on each flying day. The time and place for briefing meetings and any postponements will be prominently displayed.

All briefings will be in English and be recorded in notes, by tape recorder or video. A Full task description, meteorological information, flight safety requirements, penalties and details of any prohibited or restricted flying areas will be given in writing, as a minimum, to team leaders, Jury members and Stewards. (S10 4.21)

Procedures for flight preparation, takeoff, flying the task, landing and scoring together with any penalties will be specified in each task description. (S10 4.21)

Flight safety requirements given at briefing carry the status of regulations. (S10 4.21.3)

Team Leaders' meetings, in addition to briefings, may be called by the Director, but shall be held within 18 hours if requested by five or more team leaders. (S10 4.22)

1.11.2 COMPLIANCE WITH THE LAW

Each competitor is required to conform to the laws and to the rules of the air of the country in which the championships are held. (S10 4.23.1)

1.11.3 PREPARATION FOR FLIGHT

Each paramotor shall be given a pre-flight check by its pilot and may not be flown unless it is serviceable. (S10 4.23.3)

1.11.4 FLIGHT LIMITATIONS

Each paramotor shall be flown within the limitations of its Certificate of Airworthiness or Permit to Fly. Any maneuvers hazardous to other competitors or the public shall be avoided. Unauthorized aerobatics and jettisonable ballast are prohibited. (S10 4.23.2)

1.11.5 DAMAGE TO A COMPETING AIRCRAFT

Any damage shall be reported to the organizers without delay and the paramotor may then be repaired. Any replacement parts must be replaced by an identical part, except those major parts such as a wing for a paraglider controlled paramotor may be replaced by a similar model or one of lesser performance. Note. Change of major parts may incur a penalty. (S10 4.23.4)

An paramotor may be replaced by permission of the Director if damage has resulted through no fault of the pilot. Replacement may be only by an identical make or model or by an paramotor of similar or lower performance and eligible to fly in the same class. (S10 4.23.5)

1.11.6 TEST AND OTHER FLYING

No competitor may take-off on a competition day from the contest site without the permission of the Director. Permission may be given for a test flight but if the task for that class has started the pilot must land and make a competition take-off on the task. Practicing prior to a task is not permitted. (S10 4.25.1)

1.11.7 FITNESS

- A pilot may not fly unless fit. Any injury, drugs or medication taken, which might affect the pilot's performance in the air, must be reported to the Director before flying. (S10 4.24.3)
- Every nation has the full responsibility to fight against doping. Anti-doping control may be undertaken on any competitor at any time.
- The decision to impose anti-doping controls may be taken by the FAI, the organizer or the organizer's national authority.
- All relevant information can be found on the FAI Web site: www.fai.org/medical

1.11.8 AIRFIELD DISCIPLINE

Marshalling signals and circuit and landing patterns will be given at briefing and must be complied with. Noncompliance will be penalized.

1.11.9 COLLISION AVOIDANCE

A proper look-out must be kept at all times. An paramotor joining another in a thermal shall circle in the same direction as that established by the first regardless of height separation.

A competitor involved in collision in the air must not continue the flight if the structural integrity of the paramotor is in doubt. (S10 4.24.6)

During a navigation along a leg, competitors must not backtrack along the track line against the direction of the task. If there is a need to backtrack, competitors must leave the track line and fly back well clear of it before rejoining the track line at an earlier point.

Backtracking is defined as flying with an angle of greater than 90 degrees in respect to the intended flight direction. This limitation is extended to the corridor defined by the width used to score gates/turn points in the task. The only exception to this is within a corridor defined by the distance from the center of the turnpoint to the outermost point of intersection between the two corridors (S10 4.24.5).

In tasks with more than one possible active track line (e.g. Cog wheel navigation with unknown legs), all track lines shall be considered as active. (S10 4.24.5).

In case of judging using score software to check navigation tasks and backtracking, a margin of error of +/- "x" degrees in the direction of flight (eg +/- 2°), and a time limit of "y" seconds (eg 1 sec) can be used to avoid exaggerated penalties by the system, especially in curve navigation task. However, it should be clear in the judgment that this safety margin is not being systematically used by the pilot to improve his performance. The values of "x" and "y", if adopted for the director, will be informed at the briefing.

1.11.10 CLOUD FLYING

Cloud flying is prohibited, and paramotor shall not carry gyro instruments or other equipment permitting flight without visual reference to the ground. (S10 4.24.7).

1.11.11 ELECTRONIC EQUIPMENT

CIMA approved GNSS flight recorders and ELT's without voice transmission capability are permitted and may be carried. Sealed mobile phones, switched off, may be carried for use after landing or in an emergency, the director must be immediately informed if the seal is broken.

Unless otherwise briefed, then in the period between entering quarantine before flying a task and leaving quarantine after flying a task only materials issued by the organizer, mathematical calculators without any capability for any data transfer, and clocks may be used for preflight preparation and flight control. No other electronic devices with real or potential communication and/or navigation capabilities shall be available to, or accessed by the pilot or crew. (S10 4.27)

All other electronic devices with real or potential communication or navigation capabilities must be declared and approved for carriage by the Championship Director.

A document describing the device will be signed by the competitor when it is being sealed, and the document will be retained by the organization. After the task, provided the seal is not broken, documents will be returned to each competitor when he comes to unseal the device. If a document is still in the possession of the organization at the time of issuing the scores, the competitor will get a 100% task penalty.

Before each task the Director will ask marshals to check for infringements. The penalty is disqualification from the competition.

MORE INFORMATION ABOUT THIS PROCEDURE COME SOON AT THE WEB SITE

1.11.12 EXTERNAL AID TO COMPETITORS

Any help in navigation or thermal location by non-competing aircraft, including a competing aircraft not carrying out the task of their own class is prohibited. This is to ensure as far as possible that the competition is between individual competitors neither helped nor controlled by external aids. (S10 4.26.2).

1.12 CHAMPIONSHIP TASKS

1.12.1 GENERAL

To count as a valid championship task all competitors in the class concerned will be given the opportunity to have at least one contest flight with time to carry out the task (S10 4.7.4).

A task for each class may be different and a task may be set for one class only. (S10 4.29.5).

A competitor shall be permitted more than one start for a task if specified in the task description however each task may be flown only once. A failed take-off shall count as one of the permitted number of starts unless the cause was the fault of the organizers. In this case the director shall authorize a further start. (S10 4.30.2).

Pilots have 3 attempts at take-off in tasks where the take-off order is given. (S10 4.30.4)

A competitor may return to the airfield within 5 minutes of take-off for safety reasons or in the event of a GNSS flight recorder failure. In this case a further start may in principle be made without penalty but equally the competitor must not benefit in any way from restarting. Exceptions and penalties will be specified in the Task Description. (S10 4.30.3)

Precision tasks may be combined with other tasks or set separately (S10 4.29.1)

The Director of competition may place more than one task in the same flight, however for the validity of a championship (S10 4.3.3) he will declare only one task in this flight for validation (navigation, economy, precision), the most relevant with score above of 50% of the total score task.

1.12.2 TASK PERIOD

Times for open window, time to take-off, closing of take-off windows, turn points and last landing will be displayed in writing. If the start is delayed, given times will be correspondingly delayed unless specifically briefed to the contrary. (S10 4.29.6).

1.12.3 TASK SUSPENSION OR CANCELLATION

The Director may suspend flying after take-offs have started, if to continue is dangerous. If the period of suspension is sufficiently long to give an unfair advantage to any competitor, the task shall be cancelled. Once all competitors in a class have taken off or had the opportunity to do so, the task will not be cancelled except for reasons of force majeure. (S10 4.30.5)

1.12.4 TYPES OF TASKS

Only tasks approved by CIMA or listed in S10 A4 will be used:

- A - Flight planning, navigation estimated time and speed. No fuel limitation. (Maps 1:
- B - Fuel economy, speed range, duration, with limited fuel.
- C - Precision

A catalog of tasks (and their scoring systems) to be implemented during the championship is published along with this local regulation

1.12.5 FLYING THE TASKS

Any part of a competition task may be flown either

- a) along a set course in the direction specified at the briefing,
- b) along an in-flight decided course in the direction selected by the Pilot,
- c) c according to a local pattern specified at the briefing.

The resulting complete task is the combination of the above.

Order of take-off may be

- a scheduled take off order, balloted by the Organizer,
- open window,
- current championship or reverse championship order

The actual scheduled take off order is annexed to the relevant Task Description.

If a touch and go is required in order to separate parts of a task, details will be given in the Task Description and at the briefing.

1.12.6 OUTLANDINGS

Out landings shall be penalized, unless specifically stated at the briefing or in description of task (TC). If a pilot lands away from the goal field or from base he must inform the organizers by telephone, with the minimum of delay and at the latest by the closing time of the task. He may break the fuel tank seal and fly home or return by road.

Evidence of the landing place must be obtained from FR evidence. On return to base he must go immediately to Control with his evidence. Failure to follow this procedure without good reason may result in the pilot not being scored for the task or charged for any rescue services which have been called out, or disqualification. (S10 4.32.1)

After landing, a paraglider canopy must be folded to indicate that pilot does not need help. (S10 4.32.2)

1.12.7 FLIGHT BOUNDARIES

Flights terminating beyond the boundaries of the organizer's country shall score only to the point where a straight line between the start point or last turn point and the landing place last cuts the boundary, unless permission is given at briefing to cross such boundaries. (S10 4.33.1)

The organizers shall specify at briefing controlled air space and prohibited or restricted areas. Such areas will be marked on competition maps (S10 4.33.2). The Competition maps use scale 1:100.000 and 1:50.000.

1.12.8 EMERGENCIES

A competitor landing to help an injured pilot shall not, at the discretion of the Director, be disadvantaged by this action.

1.12.9 THE SECURE AREA

This is a clearly marked area where the paramotor must be placed from time to time as instructed by the director. Once in the Secure Area and without the expressed permission of the director, no paramotor may be touched for any reason other than to remove it from the Secure Area. Competitors who do not respect the rules of the Secure Area may be liable to penalty.

1.12.10 QUARANTINE

This is a clearly marked area to which paramotor and crew must go from time to time as instructed by the director, usually for the purposes of scoring, fuel measurement and scrutineering of fuel tank seals, fuel systems, telephone seals etc. Once in the Quarantine and without the expressed permission of the Quarantine Marshal, the crew may not communicate with anyone else and may not modify or otherwise change the configuration of their paramotor and items carried. Competitors who do not respect the rules of the Quarantine area may be liable to penalty.

1.13 CONTROL OF TASK FLIGHTS.

1.13.1 TIMING

All times are given, taken and calculated in local time or simple elapsed time, rounded down to the most accurate permitted precision. (S10 5.2.6 and 5.2.7)

1.13.2 FUELLING

Fuel will be measured by weight or volume but will be consistent for any given refueling session. Measured fuel quantities include oil where it is mixed with petrol. Fuel measured by volume shall be within $\pm 10^{\circ}\text{C}$ of the ambient temperature.

Refueling will be in the order and in accordance with the instructions given at briefing. Failure of the paramotor to be present on time may result in penalty for the pilot.

An official observer, or a team leader or competitor from a rival team must control fueling.

Official observers will collect documentary evidence that all competitor's fuel systems are sealed immediately after fueling, and that all competitor's fuel systems seals have been inspected after landing. Sealing of tanks is optional if paramotor are moved under supervision of officials directly to the take-off place.

If there is no separate class for paramotor with electric engines there shall be no fuel limit for them in any task. (S10 4.17.9)

1.13.3 ACCURACY

Landing accuracy will be scored by field judges and recorded by video cameras, with the possibility of verification

1.13.4 GATES, TURNPOINTS AND MARKERS

Gates are normally:

For Paramotor classes PF and PL:

a straight line **200m** wide perpendicular to the briefed track.

Gates may be:

- Known gates. Their position and height to be crossed will be briefed.
- Hidden gates. The height to be kept along the sections of the course where they are situated will be briefed.

Proof of passing a gate and it's timing will be by Marshals report or GNSS flight recorder evidence, as briefed.

Control points may be: A geographical point, a ground marker, a landing marker or a kicking stick.

Control points may be:

- Known control (turn) points. Their position and description will be briefed.
- Hidden control points. The track along which they will be found and their description will be briefed.

Known control (turn) points must be placed on an object that is depicted in the map (such as a crossroad, church etc.).

Proof of reaching a control point may be:

- by the competitor recording the symbol and position on the declaration sheet.
- by a Marshal's report.
- by flight recorder evidence.

The precise requirements will be described in the Task Description.

1.14 GNSS FLIGHT RECORDERS**1.14.1** The status of GNSS flight recorder evidence relative to other forms of evidence is as follows:

- All paramotor shall carry a FR which will be used as primary evidence.
- In the event of a failure of the primary FR, a second FR or observer's report may be used as secondary evidence.

1.14.2 Only CIMA approved FRs may be used and they must be operated in strict accordance with their approval documents. (S10 A6)**1.14.3** The FR to be used by a pilot in a championship will be supplied by the pilot. The FR case must be clearly labelled with the pilots name and competition number and (if applicable) this information must be entered into the memory of the FR.**1.14.4** The pilot must make a data transfer cable and a copy of the transfer software available to the organization if required.

Before the championship starts, each FR must be presented together with its CIMA approval document to the organization for inspection and recording of type and serial number. The pilot must be sure it fully complies with any requirements in the approval document e.g. that manufacturer's seals are intact and it is equipped with a data-port sealing device if it is required or it will be rejected by the organization.

Once the championship has started the pilot must always use the same FR. In the event of a permanent failure, another FR may be used after it has been presented together with its CIMA approval document to the organization for inspection and recording of type and serial number.

All FR's must be presented to the organization for inspection immediately before the start of each task. If secondary evidence is presented then both sets must be clearly marked 1 and 2. Only one set of evidence will be used to verify the flight.

- 1.14.5** It is the pilot's responsibility to ensure that he is fully aware of the functions and capabilities of his FR eg. that it has sufficient battery power and that the antenna is correctly positioned etc.

Where FR data is to be used for scoring, the organizer must have visited every location which could affect the scoring and got a GNSS fix of that position. E.g. turn points, hidden gates etc. It is not acceptable to extract positions from a map in any circumstances. Points that will not require FR evidence for scoring (eg. because a marshal will be taking times at a hidden gate) must be specifically briefed.

- 1.14.6** The scoring zone for FR's is independent of any other zone or sector (eg. one with ground observers). A scoring zone will normally be a cylinder of **200 m radius and of infinite height**.

To score, a track fix point must either be within this circle, or the line connecting two sequential track fixes must pass through the circle. Additionally the task may require one of these fixes to be associated with a pilot event mark (PEV).

Complaints about the physical mis-positioning of a scoring zone relative to a turn point will not be accepted unless it can be shown that the physical position of the location is outside a circle of radius $R = R_p/2$ where R_p = Radius or size of the scoring zone defined by the organizers (*ie the physical location must lie inside an inner circle half the width of a gate or radius of a scoring zone*).

- 1.14.7** Gate or point time is taken from the fix immediately before it is crossed.

1.15 GENERAL SCORING

1.15.1 GENERAL

The overall results shall be computed from the sum of the task scores for each competitor, the winner having the highest total score in the class. (S10 4.34.11), or according to the average score or ordered scoring if the organizer decide to use one of them. See description in Task Catalogue.

A score given to a competitor shall be expressed to the nearest whole number, 0.5 being rounded up. (S10 4.34.14)

All distances not obtained from GNSS shall be calculated from the official map and rounded up to the next 0.5 km. (S10 4.34.15). The general official map use scale 1:100.000.

A pilot who did not fly scores zero and will be marked DNF or "Did Not Fly" on the score sheet. A pilot who is disqualified scores zero and will be marked DSQ or "Disqualified". (S10 4.34.16)

Deduction of penalty points shall be made after scoring for that task is completed. (S10 4.34.17)

If a pilot's score is for any reason negative including penalties his score for the task shall be taken as zero. Negative scores shall not be carried forward. (S10 4.34.19)

The following standard symbols will be used for scoring:

V = Speed, D = Distance, T = Time

The scoring system to be used shall be approved by the FAI Microlight Commission and attached to the Local regulations.

Score sheets shall state the date for the task and the date and the time when the score sheet was issued, the task number, classes involved, competitors name, country, competition number and score.

Each valid class shall be scored on a separate score sheet.

Score sheets shall be marked Provisional, and Official, or if a protest is involved, Final. A Provisional score sheet shall only become Official after all complaints have been answered by the Director. Scores shall not be altered when the Provisional sheet is made Official. (S10 4.34.3)

If a failure in GNSS flight analysis or scoring is discovered before the end of the championship and the failure is due to a technical error which emanates from the equipment being used for the GNSS flight analysis or scoring, this failure must be corrected regardless of time limits for complaints and protests. (S10 4.34.20).

1.15.2 PENALTIES

In general, any infringement of any flying, safety or task regulation will result in penalty.

Actions which will normally result in disqualification:

- Bringing the event, its organizers, the FAI or the sporting code into disrepute.
- The use of banned substances.
- Unauthorized interference with an paramotor in a Secure Area.
- Flight outside the specified flight envelope of the paramotor or dangerous flying.

- e. Flight or attempted flight with prohibited equipment.
- f. Unauthorized assistance during a task.
- g. Interference with the firmware or software of a CIMA approved GNSS flight recorder

Other specific penalties are described in the Tasks Catalog

Part 2. Applies to Microlights (NOT APPLICABLE)

Part 3 - To All Paramotors and Paratrike

(In addition Part 1)

3.1 GENERAL REMARKS

3.1.1 RANGE

All paramotor will be expected to have a still air range of 100 km.

3.1.2 THE SECURE AREA

Is a clearly marked area where paramotor must be placed from time to time as instructed by the director. Once in the Secure Area and without the express permission of the director, no paramotor may be touched for any reason other than to remove it from the Secure Area.

Competitors who do not respect the rules of the Secure Area may be liable to penalty.

3.1.3 A "CLEAN" TAKE OFF

Is defined as a take-off attempt in which the canopy does not touch the ground between the moment it first leaves the ground and the moment ten seconds after the entire paramotor including the pilot is airborne.

3.1.4 THE LAUNCH AND LANDING DECKS

- The launch and landing decks are clearly marked areas defined at the briefing.
- Occasionally, the same area may be used for both launch and landing depending on the requirements of the task.
- Both launch and landing decks will normally be allocated as large an area as is available given the size of the airfield and any other space requirements imposed by the specific task being flown.
- A minimum of 100m x 100m is required per 30 competitors and should be scaled and/or reshaped, at minimum, proportionally according to competitor numbers.
- All delineating borders of a landing deck shall be clearly visible from the air.
- A landing deck will have a windsock within 100m of its boundary.
- There will be no significant obstacles within 200m of the boundary of a landing deck.
- Unless otherwise briefed, penalties will be awarded to Pilots or any part of their paramotor touching the ground anywhere outside the landing deck during a task.
- Launch areas shall be arranged and used such that no class of paramotor may launch or land from behind and/or overhead any other class.

3.1.5 CONTEST NUMBERS

Paramotor shall carry the number centrally on the underside of the paraglider, top towards the leading edge.

3.1.6 EMERGENCY EQUIPMENT

An emergency parachute is not to be considered as a part of the structural entity of an paramotor.

3.1.7 PROTECTIVE EQUIPMENT

A protective helmet must be worn whenever the pilot is strapped into the harness of a paramotor. An emergency parachute is highly recommended.

3.1.8 PROHIBITED EQUIPMENT

In addition to those items detailed in Part 1 of the local regulations: Disposable ballast & binoculars.

3.1.9 PROHIBITED PARAGLIDER MODIFICATION

Pilot/crew is expected to fly on a paraglider originally designed by the manufacturer. Any self-modifications to the following paraglider elements:

- canopy shape, and dimension
- lines configuration, and dimension
- riser, and riser accessories configuration, and dimension

is prohibited and will be the subject to pilot/crew disqualification.

3.2 FLIGHT CONTROL

3.2.1 TIMINGS

Normally, take-off times are taken at the moment a pilot's feet leave the ground.

Normally, landing times are taken at the moment a pilot's feet or any other part of the pilot or paramotor touch the ground.

Timings may also be taken when the pilot kicks a stick or flies overhead an observer as briefed for the task in question.

A task is deemed to have started the moment the first pilot to take-off is ready to take-off and ends the moment the last pilot has landed and has exited the landing deck.

In the case of a take-off time window, the precise time of take-off is entirely at the discretion of the pilot but shall be within the overall time window. In the case where a particular take-off time is given, the clock will start running at that moment and the pilot may subsequently take-off at any time.

3.2.2 DISTANCE MEASUREMENT

All distance not obtained from FR's shall be calculated from the same official map, of a scale not smaller than 1:100.000. and rounded up to the next 0.5 km.

3.2.3 FUEL MEASUREMENT

Fuel will be measured by weight or volume but will be consistent for any given refueling session. Refueling will be in the order and in accordance with the instructions given at briefing. Failure of the paramotor to be present on time may result in penalty for the pilot.

Competitors must be able to demonstrate that their entire fuel system is empty.

For PL2 class, the competition director may decide for each economy task about the amount of fuel allowed for the paramotor, as well as about a residual amount of fuel which the crew is obliged to bring back to the airfield (e.g.1.0 kg).

Paramotor shall have the fueling system constructed such a way as to enable measuring the residual amount of fuel brought back from an economy task.

If a crew is not able to demonstrate that amount of fuel remaining in the paramotor after completing the economy task is not less than expected residual, the crew is scored zero- analogous to landing outside the airfield in this kind of task

3.2.4 FLIGHT ACCURACY MEASUREMENT

Ground markers

- Certain ground markers may be designated as "Landing markers", where a bonus score may be available in the task for landing on the marker. Landing markers are min. 4m x 4m.

Kick sticks

- Some tasks may involve the use of "Kicking sticks". A valid strike on a stick is one where the pilot or any part of the paramotor has been clearly observed to touch it OR when electronic 'kick stick' sensors which have been shown to meet the standard tests are used, a valid strike is one which is recorded by the device.
- The stick should be approx. 2m in height, visible from a range of at least 250 meters, and of a construction such that it is unlikely to enter a propeller once struck.
- One or more sticks may be used in a task for the purposes of separating elements of that task (e.g. to take a time) and a bonus score may be available for successfully kicking a sequence of sticks in a given order and/or time.
- Where kick stick are being used to measure task timings, manual timings will be taken by a minimum of 3 separate stopwatches, from which an average time will be used.

3.3 FLYING THE TASKS

3.3.1 PROPORTIONS

The proportion of the tasks accumulated during the championship is approximately A: B:C = 1/3:1/3:1/3

3.3.2 ASSISTANTS

3.3.2.1 GENERAL

Help from assistants is positively encouraged until a competitor enters the deck to start a task. From that moment

onwards, all external assistance is forbidden except from marshals or those people expressly appointed by the Director, until the moment the competitor leaves the deck having finished a task, or otherwise lands according to the out landing rules.

3.3.2.2 PL1 WHEEL-CHAired DISABLED PILOT

A disabled pilot flying in PL1 class may be assisted in pre-launch preparation by one authorized person. Once the pilot is ready to launch, the assistant shall report that fact to the marshal, and will not help any more in the launch procedure. Either holding any part of Paramotor or wing canopy, or giving information about a canopy inflation is considered as a help.

3.3.3 TAKE-OFF

In all tasks A PF must be foot launched and a PL must take off on its wheels.

No pilot may take-off without permission from the Director or a Marshal.

Open window or given order of take-off may be applied to tasks.

All take-offs, unless otherwise briefed, must be effected entirely within the landing deck, except for emergency provisions given at briefing. Failure to comply will result in a penalty of 20% of the pilot's score.

Before departure, a pilot and/or his paramotor may be inspected at any time for contravention of any regulations. It is the duty of competitors to assist marshals as much as possible in expediting an inspection.

Except in specified tasks, an aborted take-off does not in principle attract any penalty, however the pilot must comply with any instruction from the marshals to expedite a re-launch or the pilot risks being relegated to the end of the queue.

In the case where the take-off order is given:

- The first 6 pilots must be ready to takeoff at the start of the task.
- Every pilot must take off before the sixth pilot in order after him has taken off or a 20% penalty will apply.
- If a marshal considers a pilot to be causing unreasonable delay (has been on the deck more than 20 minutes with the opportunity to take off), a 20% penalty will apply.

In the case where a particular take-off time is given, the clock will start running at that moment and the pilot may subsequently take-off at any time.

3.3.4 FLIGHT LIMITATIONS

Aerobatics and maneuver's such as stalls, B-line stalls, deep stalls and spins are prohibited. 'Big ears' is accepted.

3.3.5 LANDING

All landings, unless otherwise briefed, must be effected entirely within the landing deck, except for emergency provisions given at briefing. Failure to comply will result in a penalty of 20% of the pilot's score. The pilot may be liable to penalty if he or any part of his paramotor touches the ground outside the deck before he has removed his harness.

- Upon landing, pilots must immediately remove their paramotor from the deck.
- Landings outside the landing deck but within the airfield boundary will attract a 20% penalty, or how specified on Task (Task Catalog).
- Pilots 'abandoning' their paramotor on the landing deck will be liable to penalty.

In tasks where pilots are asked to make a precision landing or to land on a marker:

In PF: The objective is for the pilot to make a good landing on his own two feet without falling over. "Falling over as a result of the landing" will be interpreted as:

- GOOD: If the pilot falls to ONE knee - landing score as achieved.
- BAD: If the pilot falls to TWO knees OR if any part of the power unit touches the ground during the landing process - zero landing score.

In PL: The objective is for the pilot to make a good landing after which the paramotor comes to rest the right way up and without any damage. Zero landing score if the paramotor comes to rest of all its wheels or is structurally damaged in any way, although failure to restart the engine will not incur a penalty.

In tasks where the pilot is asked to switch off his engine above specific heights, the heights will be determined by:

- 500 Ft: "The engine must be stopped & propeller stationary for a minimum period of 60 seconds before any part of the paramotor or the pilot touches the ground."
- 15 ft: "The engine must be stopped & propeller stationary for a minimum period of 2 seconds before any part of the paramotor or the pilot touches the ground."

Obstruction at landing markers: If a pilot or any part of his paramotor obstructs the attempted landing or the takeoff of another competitor at a landing marker then a 20% penalty will apply. However, any pilot who scores more than zero for his landing at a landing marker has exclusive use of the area immediately surrounding the marker for a maximum period of one minute in which to clear his paramotor from the area.

3.3.6 EMERGENCIES

All pilots must fold up their canopies immediately upon landing. A canopy that has not been folded within three minutes indicates the pilot is in need of help. Any pilot who observes such a situation is obliged to render assistance and contact the organization as soon as possible.

3.4 SCORING DETAILS**3.4.1 ALL TASKS**

See Task Catalog for each task, but in general:

The maximum score may be up to 1000 points per task and is generally calculated as follows:

$$P = Q/Q_{\max} \times 1000$$

Where: Q = pilot scores, Q max = best score for the task, P = Total score

but, depending on the task, absolute scores for pilots' performance may also be awarded either in combination with the above or exclusively. Where a combination is used the total available absolute score shall not be more than 50% of the total available score.

e.g.: $P = Q/Q_{\max} \times 750 + y$ (where the maximum value of y would be 250)

OR $P = y$ (where the maximum value of y could be 1000)

In all cases: P = Total score, Q = pilot score, Q max = best score for an element of the task, y = an absolute score

The winner of the class shall be the pilot gaining the highest total points in the class, or according to the average score or ordered scoring if the organizer decide to use one of them

The Paramotor Nation Score for each class is computed from S10 4.32.12(b).

The task score for which a pilot was disqualified shall not count for nation scoring. Other valid tasks flown by this pilot are not affected (S10 4.34.13)

In the PF and PL classes, if less than 50% of pilots in class start a task then after all penalties have been applied each pilot score for the task will be reduced on a pro-rata basis according to the following formula:

$$\text{Pilot final task score} = P_s * (\text{MIN}(1, (T_s/T_c) * 2))$$

Where

P_s = Pilot task score after all penalties are applied.

T_s = Total started; Total number of pilots in class who started the task (ie properly, beyond 5 minute rule).

T_c = Total class; Total number of pilots in class.

3.4.2 ORDERED SCORING

The organizer can decide to use and ordered scoring for the competition. In this case, the following rules apply:

3.4.2.1 After each task, task points (TP) mentioned in 3.4.1 are used to create an order of pilots/crews in that task,

3.4.2.2 Then pilots are awarded competition points (CP):

1st in the task receives 1 CP

2nd in the task receives 2 CP

3rd in the task receives 3 CP

etc.

3.4.2.3 Pilots having the same amount of TP, share an average of CP adequate to the order in that task they did achieve. E.g. if 2nd and 3rd pilots win the same amount of TP, they will both receive 2.5 CP ((2 CP + 3 CP) / 2 = 2.5 CP)

3.4.2.4 Before the first task, a maximum CP (MCP) for each class is announced. MCP equals to the number of pilots/crews registered in that class.

3.4.2.5 Pilot/crew who does not fly in the task, or who is disqualified is awarded MCP+2 CP

3.4.2.6 For each pilot/crew less than 3 originating from one country in the class, an MCP+2 CP score is added to the team score.

3.4.2.7 For each pilot/crew missing from the Nation Score formula given in S10 3.4.11.b, an MCP+2 CP are added to the Nation Score.

3.4.2.8 The best pilot/team/nation is considered the one which at the end of the competition is awarded the smallest number of CP, second best with next smallest amount of CP, etc.

**11th WORLD CHAMPIONSHIP PARAMOTOR
COMPETITION AT - SAQUAREMA, BRAZIL - APRIL, 20TH – 30TH 2022**

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