

SECTION I - EVENT DETAILS

I. 1 TITLE

The Event shall be known as:

“Open Czech National Balloon Championship 2022”

I. 2 SANCTION (S1 An3 2)

THE EVENT IS AN APPROVED EVENT AS CZECH NATIONAL CHAMPIONSHIP SANCTIONED BY THE CZECH BALLOON FEDERATION (CBF).

This event is an open championship.

- The competitor with the highest aggregate score will be defined as winner of the ‘Open Czech National Balloon Championship 2022’.

- The Czech competitor with the highest aggregate score of all in this event competing pilots will be defined as ‘Czech Champion 2022’.

The determination of the champions will be based on the aggregate scores of the total results in the overall ranking.

No separate ranking for the different nationalities will be made.

I. 3 ORGANIZATION

The Event is organised by:

Aeronautic Club Brno and Czech Balloon Federation

I. 4 CORRESPONDENCE

All entries and official correspondence should be addressed to:

Pavel Kostrhun

Aeronautic club Brno

Kamenomlynska 6

Brno, IČ: 44965320

e-mail: info@balloon2022.cz

I. 5 PERSONNEL

Competition Director: Jonas Maes

Deputy Director: Pat Alliët

Meteo Officer: Roman Vozenilek

Office Manager: Brigitte Fouache

Chief Scorer: Valdemar Mlakar

Measuring Team Leader: Karin Reyms

Jury President: TBA

Jury Members: 2 non – involved pilots

I. 6 PLACE

The Event will be held at:

Airport Jindřichův Hradec

377 01 Jindřichův Hradec

Czech Republic

I. 7 DATES

The Event will run on 23th until 27th of August.

General briefing and opening ceremony will be on Tuesday 23th of August. The first flight will be 24th of August in the morning. The last flight will be 27th of August in the evening.

8 competition flights are scheduled in total.

Awards and closing ceremony will be on 27th of August in the evening after last flight.

I. 8 PROTEST FEE (S1 An3 8.3)

THE PROTEST FEE TO ACCOMPANY A PROTEST SHALL BE 100 €.

I. 9 LANGUAGE (GS 4.9.5 part)

I. 9.1 THE OFFICIAL LANGUAGE(S) OF THE EVENT SHALL BE ENGLISH. IN ALL INTERPRETATIONS THE ENGLISH LANGUAGE VERSION SHALL PREVAIL.

I. 9.2 Printed material (e.g. Task Data, Meteorological information etc) shall be in English. The language used verbally during briefings shall be English.

I.9.3 In the rules the masculine form is used as a standard. Wherever you find the masculine form, it is implied that the feminine form is included.

I. 10 PARTICIPATION (GS 4.6.1 part)

THE EVENT IS OPEN TO ALL NAC' s WHICH HAVE MET THEIR OBLIGATIONS TO THE FAI.

I. 11 CLOSING ENTRY DATE

The closing entry date for the Event is:
30 June 2022 or later by exception and confirmation of the organisers.

I. 12 RISK

The balloon and other property of a competitor shall be at the risk of the competitor at all times. By entering the event a competitor agrees to waive all claim for injury to himself or loss or damage to his property.

I. 13 INSURANCE

Each balloon shall be insured against all claims by passengers and third parties according to regulation (EU) Nr. 785/2004. The competitor shall produce documentary evidence of this insurance valid for the period of the Event covering any balloon which he may fly.

SECTION II - COMPETITION DETAILS

II. 1 CONTEST AREA (7.1)

A prepared map will be available to each competitor. The official competition map will be displayed at the official notice board.

If there will be any changes, it will be shown on the official competition map at the official notice board.

scales 1/50.000
Mapdatum: WGS 84
UTM grid system

Magnetic Declination: 4.47°E

The contest area is the Czech Territory shown on the official competition map!

II. 2 OUT OF BOUNDS (7.2)

- Austrian Territory.
- All red and blue PZ' s are considered 'out of bound – airspaces'. Ground contact and other penalties are still be applied.

II. 3 PZ LIST (7.3)

Number	Description	Additional Information	Type	AMSL Altitude	Radius	UTM
PZ 1	Gas Pipeline compressor station	LKD5 danger zone on ICAO map	Red	2500ft	1500m	7698/5078
PZ 2	Animal Park Mnich	Animals	Red	2500ft	750m	9250/4625
PZ 3	Horse farm Lisny Dvur	Horses	Red	2500ft	500m	9875/4157
PZ 4	Zoo Park Horni Pena	Zoo - Animas	Red	2500ft	300m	0230/3938
PZ 5	Stribrec Village	Angry farmer	Red	2500ft	1500ft	9075/3103
PZ 6	Heliport outside Jindrichuv Hradec	Possible helicopter operations	Yellow	-	100m	0136/4240
PZ 7	Heliport at hospital Jindrichuv Hradec	Possible helicopter operations	Yellow	-	100m	0042/4294
PZ 8	CHKO Trebonsko	Protected Landscape Area	See note*	2000ft	See map	See map
Note*	Landing is only allowed if necessary and in case of emergency!					
PZ 9	Ostriches Farm	Ostriches	Red	2500ft	250m	9720/4249
PZ 10	Whole Competition Map	Czech Territory	Blue	5000ft/See note**	-	See map
Note**	When we receive clearance to fly above 5000ft MSL, this info will be given on the TDS of that specific flight.					

note: make sure you compare your maps with the official competition map, in case of doubts, the official competition map shall always prevail!

There could be a difference between the altitude shown on the map, and written in list above. Altitude written in Section II always prevail.

II. 4 COMMON LAUNCH AREA(S) (9.1.1)

TBA

II. 5 COMMON LAUNCH POINT(S) (9.1.2)

TBA

II. 6 LANDOWNER'S PERMISSION (9.2.2)

Competitors must ensure permission has been obtained from the landowner or occupiers before driving into, or launching from, any land which is enclosed or cultivated or apparently private or used for agricultural purposes. Penalty for infringement is up to 250 task points. When competitors put their basket - during inflation or recovering - on the road or on the

border of a land, laying out the envelope into the field, without making any damage AND without disturbing traffic AND making sure that there aren't any cattle near the balloon less than 500m, landowner's permission will not be necessary, however it will still be recommended.

II. 7 LIVESTOCK AND CROP (10.6)

Balloons shall not fly closer than 500 ft from livestock or buildings containing livestock.

II. 8 DRIVING LAW (10.11)

Czech driving rules: speeds limits in Czech is 50km/hr within built-up area, 90 km/h on all other roads (80km/hr with trailer), and 130km/hr (120km/hr with trailer) on motorways. (Exceptions of limitations given by sign-boards).

II. 9 AIR LAW (10.14)

See competition map at the official notice board and the PZ-list.

We are not recommending you to fly across the Czech/Austrian border. If this will happen, it is on full responsibility of the competitor. The Competition director will not arrange permission, will not demand a flight plan and will not take contact with any authority.

II. 10 RECALL PROCEDURE (10.15)

WhatsApp will be used to cancel briefings and flights.

II. 11 VERTICAL SPEED (10.2)

All logger tracks will be checked using the Balloon Safety Analyzer. Competitors exceeding the limits of vertical speed below will be penalized:

The limits apply to a certain difference in vertical speed at a 3D-distance between balloons.

Limit 1: more than 3m/s at less than 25m

Limit 2: more than 5m/s at less than 50m

Limit 3: more than 8m/s at less than 75m

Limit 4: more than 8m/s vertical speed

(Limit 4 must be violated for a consecutive 5s or more to be triggered.)

Scoring policy: As above, the penalties mentioned in the table below are guidance therefore different penalties may be applied following review of specific cases.

lower balloon				upper balloon			
Vertical speed [m/s]	Limit 1 Penalty	Limit 2 Penalty	Limit 3 Penalty	Vertical speed [m/s]	Limit 1 Penalty	Limit 2 Penalty	Limit 3 Penalty
				$0 \leq v < -2$			
$2 \leq v < 3$	50(WRN)			$-2 \leq v < -3$	100 (WRN)		
$3 \leq v < 4$	100(WRN)	50(WRN)		$-3 \leq v < -4$	200	50(WRN)	
$4 \leq v < 5$	300	100(WRN)	50(WRN)	$-4 \leq v < -5$	400	100(WRN)	
$5 \leq v < 6$	500	300	100(WRN)	$-5 \leq v < -6$	600	200	100(WRN)
$6 \leq v < 7$	700	500	300	$-6 \leq v < -7$	800	400	200
$7 \leq v < 8$	900	700	500	$-7 \leq v < -8$	1000	600	400
8 and more	1000	900	700	-8 and more	1000	800	600

II. 12 GOALS SELECTED BY A COMPETITOR (12.2)

Rules 12.2.1 and 12.2.3 will NOT be applicable, i.e. it will not be required that the goal selected by a competitor is the intersection of two roads unless otherwise set in the task data.

II. 13 LOCATION OF OFFICIAL NOTICE BOARD (5.10)

Window of the competition centre.

An electronic noticeboard will be available via watchmefly.net. This is NOT the official noticeboard, and will be used for information only.

II. 14 COMMUNICATION TIMES (5.3)

Replies to general inquiries or notification of replies to complaints will be posted immediately as available on the ONB.

II. 15 PUBLICATION TIMES ON THE LAST FLYING DAY (5.6.3)

All scores, complaints, responses to complaints, protest and jury reports will be posted immediately as available.

II. 16 FLIGHT CREW (2.2.2)

Rule 2.2.2 is not applicable. Pilots may fly their crew or other passengers unless otherwise set in the task data.

II. 17 DETAILS FOR THE USE OF GPS LOGGERS (6.8)

a) Logger:

The Logger used in this Event is the FAI "Balloon Live" app with a connected Balloon Live sensor.

The app is available for iOS and Android and must be installed by each competitor beforehand on his own recording device (smartphone or tablet).

Each competitor must bring his own Balloon Live sensor. Recording devices and sensors are not provided by the organiser. The sensor is available for purchase from Flytec Balloon. Details and instructions can be found on balloonlive.org

b) Change the operation mode:

Start the app "Balloon Live" and log in with your Watchmefly credentials using the user menu at the top right.

Then select the application mode:

Training mode

To test the app in training flights, select the "TRAINING" mode in the actions menu (top right). This mode must be used to familiarise with the use of the app. No competition data (tracks, declarations and marker drops) is stored and transmitted.

Competition Mode

To enter competition mode, select the appropriate competition from the available competitions the user menu. When entering competition mode, the latest competition data is retrieved from the server. The device must be online to do this. It is recommended to load the competition data during flight preparation.

The connection of a Balloon Live sensor is mandatory for all flights. Please make sure the sensor is connected using Bluetooth before entering competition mode.

To start the flight (recording), the latest flight data must also be loaded from the server. This flight data is valid for 5 hours only. Therefore it is recommended to be online within the last 5 hours before the start of the recording, or just before start, to load the flight data.

Tap the red button at the bottom of the screen to start a new flight recording and transmitting the track data to the server.

c) Preconfigured setup for this competition:

- Competition name: Open Czech National Balloon Championship 2022
- Logging interval (seconds): 1
- UTC offset (seconds): 7200
- Allow multiple marker drops: inactive
- Allow multiple goal declarations: active
- Declaration format: 4/4
- Altitude mode: Barometric feet
- Geodetic system: UTM WGS84

Multiple recording devices may record the flight at the same time. The first started recording will be considered as the primary recording and will be used for scoring.

d) Handling by competitor:

- Throughout the event the competitor is responsible for storing, charging, handling as well as the proper functioning of the devices (phone, tablet) and sensors used.
- The latest version of the Balloon Live app and sensor firmware must be used.
- The Balloon Live app and sensor must be started 10-5 min before the intended take-off to allow proper GPS initialization. The recording must also be started soon after by tapping the red button.
- The competitor is considered entering the competition flight according to the selected TDS with the start of the track recording and the take off.
- The recording device and Balloon Live sensor must remain attached to the basket (uprights or basket edge) to ensure optimum GPS reception.
- The Balloon Live app must remain in the foreground on the recording device (phone, tablet) to avoid any recording interruption.
- Declarations must be made in 4/4 format unless otherwise stated in the TDS.
- Altitudes do not need to be declared unless otherwise stated in the TDS. Altitudes must be indicated with the minimum needed digits.
- Goal declarations are registered at the time when the “**DECLARE x**” button is pushed. (x is the number of the goal declaration slot)
- Electronic marker drops are registered at the time when the “**DROP x**” button is pushed. (x is the number of the marker)
- 5-10 minutes after landing track recording must be stopped in the action menu at the top right in the Balloon Live app.
For the transfer of the data, please see under point f) below.



e) Scoring:

- Unless otherwise stated in the TDS, an electronic mark is mandatory for each task where no valid mark has been achieved by physical marker.
- In case the same logger-goal is declared more than once the last valid declaration will be used.
- If an electronic mark is used more than once, the first mark will be used.

f) Track data:

The track data is transferred to the server automatically if a data connection is available during flight or when made available after the flight.

To resume the data transfer later after the flight, reopen the app and the transmission will start within a minute. Make sure all track points are sent before closing the app or disconnecting the internet connection of the device.

The upload icon  at the top left will indicate if the automatic upload is in progress. The color of the icon shows the number of remaining track points to upload: red = more than 100, yellow = between 30 and 100, white = less than 30. If the icon switches to , then

the upload is completed. Make sure all track points are sent before closing the app or disconnecting the internet connection of the device.

The track must be transferred to the server latest 6 hours after the flight has been started. For tracks that are transferred later, the competitor will be penalised by 10 competition points per minute (or part) late (in the last task).

The track data remains the property of the competitor but may be made available to the public for live tracking. In such case, explicit permission must be given by the competitor and the publication should have a minimum of 10 min delay.

g) Recommendations:

- Only use recording devices in online mode as the accuracy of the recording is increased and the data transferred immediately.
- Use a powerbank to avoid problems with the battery capacity of your device.

Failure to follow the instructions 'Details for the use of GPS Loggers' may be penalized without warning.

Flight Report Forms must be completed on Watchmefly.net as quick as possible and maximum NINETY (90) minutes after the landing of that specific flight !! When there are problems during your retrieve, please contact the competition director and ask for an 'extension of time' : +32 477.16.02.73.

If the FRF is received too late without an extension of time you may be penalized up to 1000 points!

II. 18 DETAILS FOR TIME LIMITS (rest hours) (5.6)

The hours between 23.00hr and 04.00hr local time and 13.00hr and 16.00hr local time will be disregarded for the purpose of the time limits of complaints and protests.

II. 19 BALLOON SIZE (3.3)

Rule 3.3 is applied with exception on request before the start of the event.

II. 20 ASSESSED MARK (12.16.2)

N/A

II. 21 ALTITUDE (14.6.4)

All altitudes in this event are described in feet AMSL.

The logger's measured GPS altitude will be used for scoring.

II. 22 2D/3D SCORING METHODS (12.22.2) (for events with logger scoring)

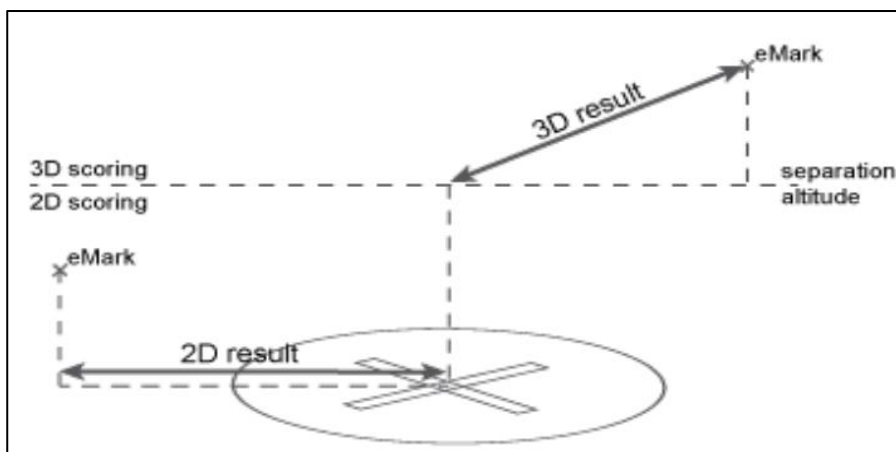
The separation altitude between 2D and 3D scoring in this event is 2500ft MSL unless otherwise stated on the TDS. TDS always prevail.

When goals or targets on the ground are used, results based on track points will be the:

- 3D-distance to the point at the separation altitude above the goal/target if the track point or electronic mark is above the separation altitude

or

- 2D-distance to the goal/target if the track point/electronic mark is at or below the separation altitude.



When goals/targets above the ground are used, result based on track points will be the 3D distance.

II. 23 COMPETITION STRUCTURE (6.1)

The competition will be conducted using markers in MMA and logger-scoring only.

II.24 MAP COORDINATES (7.8)

The basic map coordinate of a UTM map with WGS84 datum is:

32K (Zone reference, where 32=zone and K=latitude band)

31K (Zone reference, where 31=zone and K=latitude band).

458565 (6 digit Easting)

5552261 (7 digit Northing)

To identify a point on the competition map, the coordinates must be written in one of the following formats:

6-7 format: this complies with the standard UTM grid format. First six digits easting and second, seven digits northing. (e.g. 458565-5552261 alternatively 0458565-5552261)

4-4 format: this format uses one time five-digits and one time 4 digits. First five digits easting and the second four digits northing. (e.g. 4585-5226), leaving out the 1m digit.

Coordinates may be written in one of the following formats:

Easting's may be separated from Northing's by: a carriage return (= new line), by the minus character or the slash character. In all cases the parts of the coordinates shall be clearly separated and with Easting's first.

Extra information:

Emergency & retrieve number: 0032 477 16 02 73 (Jonas Maes, Event Director)

Extension of time: 0032 477 16 02 73 (Jonas Maes, Event Director)

Landowners relations: 00420 777 870 914 (Filip Klima, Landowners Relations)

Sunrise: 06.10hrs LT – Sunset 19.50 hrs LT -- Obligated Frequency: 122.255 MHz