

SECTION I - EVENT DETAILS

I. 1 TITLE

The Event shall be known as:
Belgian Balloon Trophy 2024

I. 2 SANCTION (S1 An3 2)

This event is an open championship.

- The competitor with the highest aggregate score will be defined as winner of the 'Belgian Balloon Trophy 2024'.

- The Belgian competitor with the highest aggregate score of all in this event competing Belgian pilots will be defined as 'Belgian Champion 2024'.

- The Dutch competitor with the highest aggregate score of all in this event competing Dutch pilots will be defined as 'Dutch Champion 2024'.

- The Luxembourg competitor with the highest aggregate score of all in this event competing Luxembourg pilots will be defined as 'Luxembourg Champion 2024'.

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:

Sportcommissie Koninklijke Belgische Ballonvaart Federatie

I. 4 CORRESPONDENCE

All entries and official correspondence should be addressed to:

Organization BBT 2024 att. Bart Seresia

Website: www.bbt2024.balloonfederation.be

Email: Belgianballoontrophy@gmail.com

I. 5 PERSONNEL

Competition Director: Jonas Maes

Deputy Director: Pat Alliët

Meteo Officer: Jonas De Bodt

Office Manager: Brigitte Fouache

Chief Scorer: Erwin Pellegrom

Measuring Team Leader: Karin Reyms

Jury President: Stephen Jones

Jury Members: 2 non – involved pilots

I. 6 PLACE

The Event will be held in Vielsalm and surroundings.

The competition center is located at:
'Center Parcs Les Ardennes'

Rue de la Grotte, 12 - 6690 Vielsalm

I. 7 DATES

The Event will run on 02th until 06th of October.

General briefing will be on Wednesday 02th of October. The first flight will be 3th of October in the morning. The last flight will be 06th of October in the morning unless the minimum tasks and flights under rule 1.2 have not been achieved, in which case the last flight will be 06th of October in the evening.

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 CLOSING ENTRY DATE

The closing entry date for the Event is:
31 August 2024 or later by exception and confirmation of the organisers.

I. 11 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. 12 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 is the Digital Map distributed among the pilots.

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

scales 1/50.000
Mapdatum: WGS 84
UTM grid system

Magnetic Declination: 1.52°W

The contest area is the Belgian and Great Duchy of Luxembourg territory shown on the official competition map.

II. 2 OUT OF BOUNDS (7.2)

- German 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)

Blue PZ' s

GROUP A					
Name	Type	Coordinates	Description	Radius	Altitude
A	Blue	See map - Airlaw	EBLG TMA 3	N/A	2500ft MSL
B	Blue	See map - Airlaw (Germany - out of bound)	ELLX TMA Two A	N/A	2500ft MSL
C	Blue	See map - Airlaw (Luxembourg)	ELLX TMA One B	N/A	3000ft MSL
D (*)	Blue	Belgian Territory except A	AIRSPACE	N/A	6000ft MSL

GROUP B					
Name	Type	Coordinates	Description	Radius	Altitude
F	Blue	See map	TSA 29A & TSA 29B	N/A	4500ft MSL
G	Blue	See map (G.D. Luxembourg)	TSA 29C	N/A	2500ft MSL
H	Blue	See map	TSA 27B	N/A	4500ft MSL
I	Blue	See map	TSA 27C	N/A	4500ft MSL

(*) Changes for each competition flight will be given on the TDS of that specific flight.

Red & Yellow PZ' s

GROUP A							
Name	Type	Coordinates			Description	radius (m)	Altitude
PZ01	Red	31U	705703	5578843	Horses	250	2000ft MSL
PZ02	Red	31U	705040	5572763	Horses	250	2000ft MSL
PZ03	Red	31U	707247	5572200	Dog Training Center	100	2000ft MSL
PZ04	Red	32U	286873	5571462	Horses	250	2500ft MSL
PZ05	Red	32U	294251	5590039	Horses	250	3000ft MSL
PZ06	Red	32U	300800	5589826	Horses	250	3000ft MSL
PZ07	Red	31U	707739	5566777	Horses	250	2500ft MSL
PZ08	Red	31U	704548	5562251	Horses	250	2000ft MSL
PZ09	Red	31U	710925	5578628	Horses	250	3000ft MSL
PZ10	Red	32U	295160	5564088	Horses	250	2500ft MSL
PZ13	Red	32U	288600	5580549	Horses	250	2000ft MSL
PZ23	Red	32U	294090	5576240	Horses	250	2500ft MSL
PZ24	Red	32U	294090	5575620	Horses	250	2500ft MSL
PZ 25	Yellow	31U	707556	5578274	Angry farmer	500	-
PZ 26	Red	32U	287507	5585580	Poultry	250	2500ft MSL
PZ27	Red	31U	701300	5587200	Natural Reserve	800	2000ft MSL

GROUP B							
Name	Type	Coordinates			Description	radius (m)	Altitude
PZ15	Red	32U	288647	5557770	TSA05	1852	3500ft MSL
PZ16	Red	31U	711853	5554844	TSA04	1852	3500ft MSL
PZ17	Red	31U	708316	5552419	TSA03	1852	3500ft MSL
PZ22	Red	See Map			TSA 28B – ELSENBORN 03	N/A	NO FLY ZONE
PZ 23	Red	See map			TSA 34A	N/A	NO FLY ZONE

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.

Blue, Red & Yellow PZ' s:

Groups A: Always in force unless otherwise stated on the TDS of that specific flight.

Groups B: Not in force unless otherwise stated on the TDS of that specific flight.

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.

Longer grass (not cut out recently) is also considered as a crop, used by landowners in this area!

II. 8 DRIVING LAW (10.11)

Belgian driving rules: speeds limits in Belgium 30km/h or 50 km/h within built-up area, 70 or 90 km/h on all other roads (except motorways and 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 German 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 German Flight Information Centre.

Blue, Yellow & Red PZ' s Groups A: Always in force unless otherwise stated on the TDS of that specific flight.

Blue & Red PZ' s Groups B: Not in force unless otherwise stated on the TDS of that specific flight.

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)

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)

Electronic Notice Board on Watchmefly.net

<https://watchmefly.net/events/event.php?e=bbt2024&v=enb>

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.

Timing requirements of 5.1.5 + 5.2.5 will start at the time of the ONB posting.

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 DETAILS FOR TIME LIMITS (rest hours) (5.1.5+5.2.5)

The hours between 22.00hr and 04.00hr local time and 13.00hr and 15.00hr local time will be disregarded for the purpose of the time limits of complaints and protests.

II. 17 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. 18 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: Belgian Balloon Trophy 2024
- Logging interval (seconds): 1
- UTC offset (seconds): 7200
- Allow multiple marker drops: inactive
- Allow multiple goal declarations: active
- Declaration format: 5/4
- 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 5/4 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. 19 BALLOON SIZE (3.3)

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

II. 20 ALTITUDE (14.6.4)

All altitudes in this event are described in feet AMSL.

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

II. 21 2D/3D SCORING METHODS (12.22.2) (for events with logger scoring)

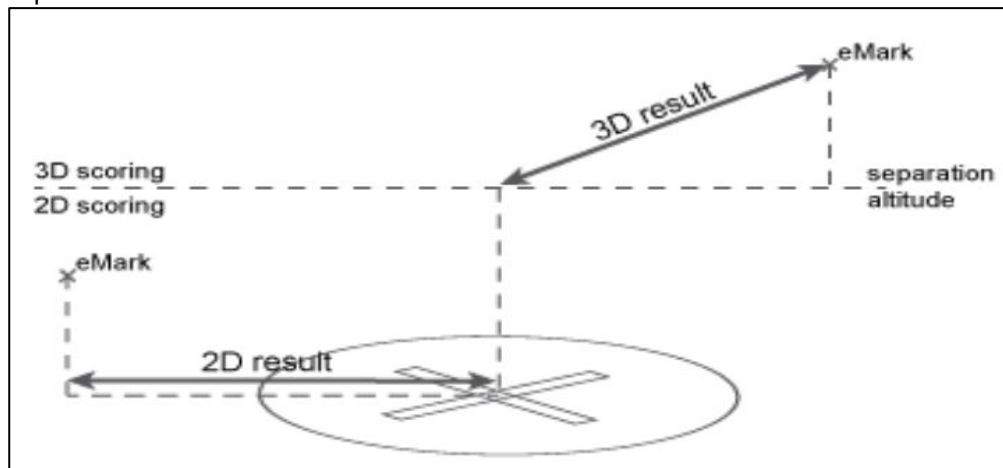
The separation altitude between 2D and 3D scoring in this event is 2000ft MSL unless otherwise stated on the TDS. TDS always prevail.

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. 22 COMPETITION STRUCTURE

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

II.23 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)

5-4 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. 54585-5226), 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.

II.24 AXMER VERSION

Axmer 2024

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: 0032 486 77 44 22 (Bart Seresia, Event Manager)

Logger or scoring: 0031 655 76 07 20 (Erwin Pellegrom, Chief Scorer)

Sunrise: 07.50hrs LT – Sunset 19.10 hrs LT -- Obligated Frequency: 122.255 MHz