

DANMARKSMESTERSKAB I VARMLUFTBALLON 2023



EVENT RULES

Version Dbu 2023

Disse regler supplerer og til en vis grad erstatter AX Model Event Rules Version 2023.

Herudover en tilpasning som følge af, at det er Danmarksmesterskabet og ikke et internationalt First Category Event.

SECTION I - EVENT DETAILS

I.1 **TITLE**

The event shall be known as:
DreamBalloon Cup 2023 – Danmarks mesterskabet i Ballonflyvning

I.2 **SANCTION** (S1 An3 2)

The Event is approved and sanctioned by the Danish Balloon Federation

I.3 **ORGANIZATION**

The Event is organized by Ballonklub Fyn and NEET.

I.4 **CORRESPONDENCE**

All entries and official correspondence shall be addressed to:
Line Visby Hansen (Ballonklub Fyn)
mobil: 53542703, email: ballonklubfyn@gmail.com

I.5 **PERSONEL**

Event Director:	Jan Andersen
Deputy Director:	Bjarne Klewitz
Chief Scorer:	Henrik Hermansson
Target teams leader:	Erik Kromann
Target teams leader:	Niels Jørgen Pedersen
Vind reader leader	Erling Larsen

I.6 **PLACE**

The Event will be held at
Hårslev hallen
Ejlskovvej 16
5471 Sønderød

I.7 **DATES**

The Event will run from 8. August 2023 (General briefing at 14:00).
The last flying day will be 12. August 2023 (only morning flight).

I.8 **PROTEST FEE** (S1 An3 8.3)

The protest fee to accompany a protest shall be 500DKK.

I.9 **LANGUAGE** (GS 4.9.5 part)

I.9.1 The official language(s) of the Event shall be Danish although the rules are in English.

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- I. 9.2 Printed material (e.g. Task Data, Meteorological information etc) shall be in Danish where ever that is possible.
- I. 10 **PARTICIPATION** (GS 4.6.1 part)
The Event is open to all balloon pilots, member of the Danish Balloon Federation (DBu).
- I. 11 **CLOSING ENTRY DATE**
The closing entry date and time for the Event is 12. April 2023 kl. 14:30.
- I. 12 **RISK**
The balloon and other property of a competitor shall be at the risk of the competitor at all times.
- I. 13 **INSURANCE**
Each balloon shall be insured against all claims by third parties to a minimum of the legal required third part insurance. 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)**
The competition map will be displayed in the briefing room and will be digital available from Electronic Notice Board – www.watchmefly.net – DreamBalloon Cup 2023.

Scale 1/50.000 – map datum WGS84 – UTM grid system – Zone 32

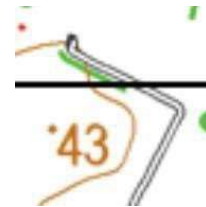
Lower left: 549000E 6113000N
Upper right: 604000E 6163000N
- II. 2 **OUT OF BOUNDS (7.2)**
Areas Out of Bounds include water and any land not on competition map.
Any changes will be posted at Electronic Notice Board.
- II. 3 **PZ LIST (7.3)**
Will be published and updated on the Electronic Notice Board – www.watchmefly.net – DreamBalloon Cup 2023.
- II. 4 **COMMON LAUNCH AREA(S) (9.1.1)**
Will be published and updated on the Electronic Notice Board – www.watchmefly.net – DreamBalloon Cup 2023.
- II. 5 **COMMON LAUNCH POINT(S) (9.1.2)**
Will be published and updated on the Electronic Notice Board – www.watchmefly.net – DreamBalloon Cup 2023.
- II. 6 **LANDOWNER’S PERMISSION (9.2.2)**
Always obtain landowners permit for launch from private area and fields.
For morning flight, if unable to contact landowner, it’s accepted to launch from harvested fields, if the basket is placed on the road and only the envelope is on the field and a minimum of crewmembers.
- 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.
- II. 8 **DRIVING LAW (10.11)**
Danish law shall always be followed. Any other restrictions will be announced at the General Briefing or ordinary briefings.
- II. 9 **AIR LAW (10.14)**
Danish law shall always be followed. Any additional restrictions will be announced at the General Briefing or ordinary briefings.
- II. 10 **RECALL PROCEDURE (10.15)**
To be announced at general briefing.
- 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:
- | <u>Limit</u> | <u>3D Proximity</u> | <u>Relative Vertical Speed</u> |
|--------------|--|--------------------------------|
| Limit 1 | 25 m | 3 m/s |
| Limit 2 | 50 m | 5 m/s |
| Limit 3 | 75 m | 8 m/s |
| Limit 4 | Exceeding the absolute vertical ascent speed of 8 m/s will be penalized. | |

II. 12 **GOALS SELECTED BY A COMPETITOR (12.2), GOAL CENTER (12.1)**

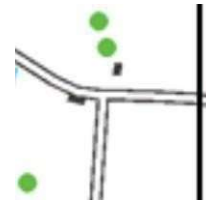
Goals selected by a competitor must be declared using 4/4 coordinate format, as defined in II.24. Measurements will be made from a target to the exact coordinate of the 4/4 goal appended with zeros, i.e. the declaration "8765 / 4321" is measured to the coordinate of "687650E / 6143210N".

Goals selected by a competitor must be within 200 meters of the center of a valid road intersection, defined as an intersection between any of the following types of roads on the competition map:

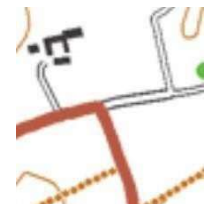
Narrow roads drawn with two black lines.



Wide roads drawn with two black lines.



Narrow roads drawn with red/brown solid line.



Wide roads drawn with red/brown solid line (without road number)



The center of a road intersection will be the intersection of the centerlines of the roads.

No goal selected by a competitor shall be:

- a. Within a built-up area.
Built-up area is defined as the area marked on the map in gray. Roads, which are surrounded by or on the border to such areas are considered being in the built-up area.
- b. Within a blue PZ.
- c. Within 200 meters of:
 1. A red PZ
 2. A road designated with a number (highway, mainroad etc.).
 3. Any railroad shown on the competition map.

4. Any power line shown on the competition map

Any additional restrictions or special single modifications on goal declaration will be announced at the notice board and/or at briefings.

II. 13 **LOCATION OF OFFICIAL NOTICE BOARD (5.10)**

For this event the official notice board (ONB) will be electronic on www.watchmefly.net – DreamBalloon Cup 2023. Electronic notifications of postings to the OBN may be made using a text messaging system.

The location of a fallback paper Official Notice Board will be announced at General Briefing.

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. An electronic notification may be made using a text messaging system. Timing requirements of 5.6.2 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, protests and jury reports will be posted immediately as available. Electronic notification of postings to the ONB may be made simultaneously using a text messaging system.

II. 16 **FLIGHT CREW (2.2.2)**

N/A.

II. 17 **DETAILS FOR THE USE OF GPS LOGGERS (6)**

a) Logger:

- i. 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).
- ii. The logger must be configured to enter in the competition with a fee to be paid by the competitor.
Details on the operation of the logger can be seen on the website <http://www.balloonloggers.org> , a tutorial is available at <https://balloonlive.org/>
- iii. 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.

b) Preconfigured setup for this competition will be announced at the General Briefing.

c) Handling by competitor:

- i. The Balloon Live sensor will be handed out at the General Briefing (GB). Throughout the event the competitor is responsible for storing, charging, handling as well as the proper functioning of the devices used (phone, tablet, sensor...).
- ii. The Balloon Live app must be started 10-5 min before the intended take-off to allow proper GPS initialization. The recording must also be started at the same time.

- iii. The competitor is considered entering the competition flight according to the selected TDS with the start of the track recording and the take off.
- iv. During flight the recording device must remain attached to the basket (uprights or basket edge) to ensure optimum GPS reception.
- v. Declarations must be made in 4/4 format. Altitudes do not need to be declared unless otherwise stated in the TDS. Altitudes must be indicated with the minimum needed digits.
- vi. Goal declarations are registered at the time when the “Declare #” confirmation button is pushed, after declaration details are entered.
- vii. Electronic marker drops are registered at the time when the “Drop #” confirmation button is pushed, after goal number is selected.
- viii. 5-10 minutes after landing track recording must be stopped using the menu option in the Balloon Live app. For the transfer of the data, please see “Track data” below.

d) Scoring:

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

e) Track data:

- i. 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 number of unsent track points is shown at the top right (number next to the cloud with the arrow) and will show 0 when all points are transferred. The track must be transferred to the server latest 90 minutes after completion of the flight. See also section 6.11 (Flight Report Form).
- ii. 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.

f) Recommendations:

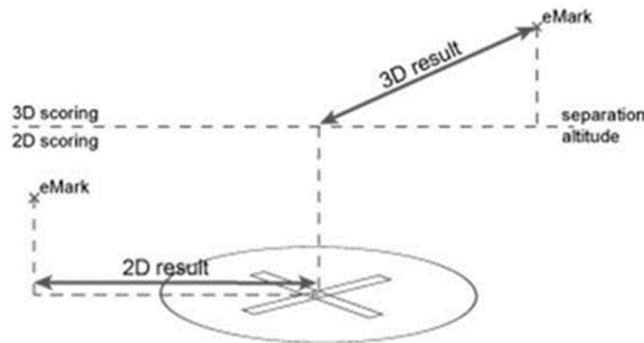
- i. Only use recording devices in online mode as the accuracy of the recording is increased and the data transferred immediately.
- ii. Use a powerbank to avoid problems with the battery capacity of your device.

- II. 18 **DETAILS FOR TIME LIMITS** (rest hours) (5.6)
The hours between 22:00 – 04:00 / 12:00 – 16:00 local time will be disregarded for the purpose of the time limits of complaints and protests.
- II. 19 **BALLOON SIZE** (3.3)
Maximum size category of AX8 (3.000 cbm / 105.000 cbf). The Danish Sporting Committee may give special permit for other Balloon size.
- II. 20 N/A. (Not used)
- II. 21 **ALTITUDE** (14.6.4)
The altitude used for the competition are GPS altitude.

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 700.ft MSL
Results from electronic markers will be the:

- 3D-distance to the point at the separation altitude above the goal/target if the electronic mark is above the separation altitude.
- 2D-distance to the goal/target if the electronic mark is at or below the separation altitude.



II. 23 **COMPETITION STRUCTURE** (6.1)

- a) The competition will be conducted using markers in MMA and logger scoring only.
- b) Trackpoints will not be used for scoring (but may be used for penalties etc.)
- c) When possible, at least one physical marker drop shall be planned for each flight.
- d) 3DT and goals with altitude will not be used.
- e) Mandated solo flights will not be used.

II. 24 **MAP COORDINATES** (7.8)

To identify a point on the competition map (see section II.1), the coordinates must be written (or entered in the logger) in the following format:

- 4-4 format: this format uses two times four-digits. The first four digits signifies easting and the second four digits northing. (e.g. 8765-4321), leaving out the 1m digit. The coordinate is interpreted to the required precision by appending zeros, e.g. "8765-4321" is "687650E / 6143210N".

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 the Easting's first.

A goal or coordinate provided by the event director may use the 6-7 format, including non-zero 1m digit if appropriate. First six digits easting and second, seven digits northing.

SECTION III - RULES

CHAPTER 1 – OBJECTIVES

1.4 DOCUMENTATION

The following documents will be inspected when each competitor registers on arrival at the Event.

- a. Pilot License
- b. Pilot Log Book
- c. Balloon Log Book
- d. Certificate of Airworthiness
- e. Certificate of Registration
- f. Certificate of Insurance
- g. FAI Sporting License
- h. Medical license

All pilots must sign a declaration, confirming that all documents are valid and legal.

CHAPTER 2 - ENTRY CONDITIONS

2.1 COMPETITOR

2.1.3 It is accepted that a competitor only participates in one or more of the scheduled flights. Failure to participate in individual flights must occur during General Briefing. In the situation of a pre-announced absence for a flight, the person concerned will be registered as "Not competing" and will not be included in the Number of competitors entered in the competition (see P under 14.5.5).

2.1.4 During a General Briefing, a competitor may offer the Event Director to fly the "hare balloon" (15.6 Hare and Hounds (HNN) and 15.7 Watership Down (WSD)) on one or more of the scheduled flights.
In the situation that tasks are set after 15.6 Hare and Hounds (HNN) or 15.7 Watership Down (WSD) and the Event Director will make use of the said offer, this will be notified to the relevant competitor at the latest by task briefing.
In this situation the person concerned will be registered as "Not competing" and will not be included in the Number of competitors entered in the competition (see P under 14.5.5).

2.3 QUALIFICATION

PILOTS-IN-COMMAND SHALL HAVE BEEN AUTHORIZED TO ACT AS PILOT-IN-COMMAND OF THAT SUB-CLASS OF AEROSTAT FOR WHICH THE EVENT IS HELD, AT LEAST TWELVE MONTHS PRIOR TO THE START OF THE EVENT. EACH PILOT-IN-COMMAND SHALL HAVE ACCUMULATED AT LEAST 30 HOURS AS PILOT-IN-COMMAND OF AEROSTATS OF THAT SUB-CLASS BY THE CLOSING ENTRY DATE. (S1 5.6.4.1)

CHAPTER 3 - BALLOON QUALIFICATIONS

3.8 COMPETITION NUMBERS

All crew vehicles shall be clearly identified with competition numbers.

CHAPTER 4 - ORGANIZATION OFFICIALS

4.1 EVENT DIRECTOR

4.1.1 THE EVENT DIRECTOR IS IN OVERALL OPERATIONAL CHARGE OF THE EVENT, RESPONSIBLE FOR ITS GOOD MANAGEMENT AND ITS SMOOTH AND SAFE RUNNING. THE EVENT DIRECTOR shall HAVE A DEPUTY DIRECTOR AND TECHNICAL OFFICIALS TO ASSIST HIM. (GS 5.2.5.1 part).

4.3 **DUTIES OF THE JURY**

4.3.1 MATTERS OF ARBITRATION OR RULE INTERPRETATION SHALL BE THE RESPONSIBILITY OF THE JURY MEMBERS. JURY MEMBERS ARE APPOINTED BY THE DANISH SPORTING COMMITTEE AND ARE ACTING ON BEHALF OF THE COMMITTEE. (GS 5.2.1 part)

4.3.3 JURY MEMBERS MUST POSSESS A THOROUGH KNOWLEDGE OF THE RELEVANT SPORTING CODES AND THE RULES FOR THE EVENT. (GS 5.2.4.4)

4.4 **SAFETY OFFICER**

4.4.1 N/A. (S1 5.11 part)

CHAPTER 5 - COMPLAINTS AND PROTESTS (as per S1 An3 7+8)

5.8 **COMPLAINT AFTER AN EVENT**
ARE NOT PERMISSIBLE.

CHAPTER 6 – OBSERVERS AND LOGGERS

6.11 **FLIGHT REPORT FORM (FRF)**

6.11.1 A flight report form (FRF) stating the take-off and landing place and time, estimated task results, landowner related issues and other relevant data shall be completed on www.watchmefly.net – DreamBalloon Cup 2023 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': tlf. 20167661.

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

CHAPTER 7 – MAPS

7.3.2 Circular PZs (dome shape) shall be defined by the center point map reference and radius in meters and/or feet. PZs with natural boundaries will be plotted on the competition map and shaded excerpts of the map will be displayed on ONB.

CHAPTER 8 - PROGRAM, BRIEFINGS

8.2 **VALID TASK**

8.2.3 Tasks are not valid if less than 35% of the competitors take off.

CHAPTER 12 - GOAL, MARKER, TRACK POINT

12.1 **GOAL**

12.1.2 N/A.

12.3 **DECLARATIONS BY COMPETITORS**

12.3.1 A competitor shall identify his goal by map coordinates. For goal declaration of pre-defined goals the 3-digit goal number may be used.

12.3.2 N/A

12.15 **LOST MARKER**

12.15.1 A marker, dropped within the Marker Measuring Area, is considered lost if it is not found and in possession of Officials within the time limit specified. Competitors may inquire with the measuring officials at a target or goal if they have doubt that their marker will be found. Competitors will not be allowed to search for markers in the MMA without the presence of an official. If a marker dropped or allegedly dropped in the MMA is considered lost, then the competitor will be scored to a valid electronic mark, if one exists.

12.20 **MARKER MEASURING AREA (MMA)**

12.20.3 Competitors not achieving a physical mark within the MMA will be scored to a valid electronic mark, if one exists. Track points are not used.

12.21 **VALID MARK**

12.21.3 A valid physical mark shall have precedence over any electronic mark. A competitor's result based on an electronic mark cannot be better than the worst possible result in the MMA.