Lokala tävlingsregler för varmluftsballonger

För sanktionerade tävlingar inom Svenska ballongfederationen

Godkänt av Svenska ballongfederationen: 2025-04-17

Innehåll

ALLMÄNT

Dessa regler är en bilaga till de generella tävlingsreglerna för varmluftsballonger. De innehåller lokala definitioner och undantag för AX Model Event Rules section I, II, III.

De gäller för en specifik tävling med varmluftsballong i Sverige som är sanktionerad av Svenska ballongfederationen på uppdrag av Svenska Flygsportförbundet.

DEFINITION AV AX MODEL EVENT RULES

SECTION I – EVENT DETAILS

I.1   TITLE

The Event shall be known as: Svenska Mästerskapen 2025

I.2   SANCTION

The event is an approved championship sanctioned by Svenska Ballongfederationen and Svenska Flygsportförbundet.

I.3   ORGANIZATION

The event is organized by: Ockelbo Ballongsällskap

I.4   CORRESPONDENCE

All entries and official correspondence should be addressed to:

Janne Nilsson
janne@0390.se

I.5   PERSONNEL

Event Director: Janne Nilsson

Deputy Director: -

Safety Officer: Johan Söderblom

Jury President: Bengt Stener

Jury Member: Tomas Andersson

Jury Member: Torbjörn Persson

I.6   PLACE

The Event will be held at: Ockelbo

I.7   DATES

The event will run from 2025-04-30

The last flying day will be 2025-05-03

unless the minimum tasks under rule 1.2 have not been achieved, in which case the last flying day will be 2025-05-04

I.8   PROTEST FEE

Se generella tävlingsregler.

I.9   LANGUAGE

I.9.1   THE RULES AND INFORMATION CIRCULATED TO COMPETITORS OR ISSUED DURING THE EVENT SHALL BE IN SWEDISH, WITH THE EXCEPTION OF FAI RULES AND HANDBOOKS. IN ALL INTERPRETATIONS OF DOCUMENTS WRITTEN IN ENGLISH, THE ENGLISH-LANGUAGE VERSION SHALL PREVAIL.

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

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: See invitation

I.11   RISK

Se generella tävlingsregler.

I.12   INSURANCE

Se generella tävlingsregler.

SECTION II – COMPETITION DETAILS

II.1 CONTEST AREA (7.1)

The competition map will consist of a paper map printed for the event, covering the contest area. The contest area is defined by these four corners:

Corner	SWEREF99/WGS84		4-4 format (E-N)
Northwest	E: 570000	N: 6769000	7000-6900
Northeast	E: 618000	N: 6769000	1800-6900
Southwest	E: 570000	N: 6736000	7000-3600
Southeast	E: 618000	N: 6736000	1800-3600

II.2 OUT OF BOUNDS (7.2)

Will be communicated at the general briefing or at task briefings.

II.3 PZ LIST (7.3)

Will be published separately on: https://watchmefly.net
Active PZs will be communicated at the general briefing or at task briefings.

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

Will be communicated at the general briefing or at task briefings.

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

Will be communicated at the general briefing or at task briefings.

II.6 LANDOWNER'S PERMISSION (9.2.2)

Landowner permission must always be obtained at take-off and landing on private property.

In addition to Rule 9.2.2 the following applies:

Public areas, such as public parks, squares and river sides, are considered as places without need for permission for take-off and landings. Furthermore, a take-off or landing without permission may be made from / on minor non private roads or tracks, if the balloon envelope can be laid / packed on the road.

The road traffic may not be obstructed.

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)

Swedish law and traffic rules apply.

II.9 AIR LAW (10.14)

Swedish air law and EASA rules apply.

II.10   RECALL PROCEDURE (10.15)

May be specified at general briefing or task 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:

Limit	3D proximity	Relative vertical speed
1	25 m	3 m/s
2	50 m	5 m/s
3	75 m	8 m/s
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)

Goal defined by coordinates:

To identify a goal on the competition map, the competitor must declare it by coordinates to be written in eight-digit format (First four digits west/east and the second four digits south/north. Easting then Northing.)

Intersections selected from a map:

A goal on the ground selected by a competitor shall appear from the map to be easily accessible to vehicles on the ground and precisely identifiable for measurement. Unless otherwise allowed in the task data, the goal shall be the intersection of two roads. According to the task data competitors may be required to choose one or more goals from the list of predetermined goals or as listed in the TDS.

Measurements will be made from a target or marked point as indicated in the TDS. In the case that an unmarked intersection is used, measurements will be made from the center of the intersection as specified below. If the intersection shown as a crossroad on the map turns out to be a staggered tee-intersection, then the goal will be the midpoint between the points defined with the method mentioned in the competition details.

The center point of the intersections of roads will be the intersection of the centerlines of the roads.

The Director may provide a graphical definition of unusual intersections.

The competitor shall add descriptive details to distinguish between possible goals located close together near his coordinates.

The following types of roads are permitted for the purpose of goals selected by competitors:

Roads shown with at least one solid line on the map (see example to the right.)

However, it is not permitted to select goals on roads: E4, 272, 302, 303, 542, 543, 544, 545, 546, 547, 548, 549, 567, 574, 575, 576, 577, 578, 579, 580, 583, 584, 586.
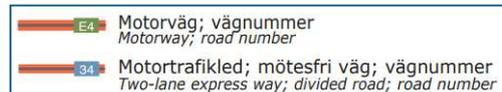
No goal selected by a competitor shall be:

a. within a built-up area
b. within a blue PZ
c. within 200 meters of:

   1. a red PZ

   2. a motorway (motorväg) or a road designated to be of motorway status (motortrafikled) (200 m measured from the outer edge as shown on the map).

   3. a power line or electrified railway or electrified tram track shown on the competition map

   4. wind power station (vindkraftverk)

II.13   LOCATION OF OFFICIAL NOTICE BOARD (5.3.3)

An on-line Official Notice Board (ONB) is used, it will be at: https://watchmefly.net

Electronic notifications of postings to the ONB may be made using a text messaging system. The fallback paper Official Notice Board will be located at:

To be announced at general briefing

II.14   COMMUNICATION TIMES (5.1.5 + 5.2.5)

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

II.15   PUBLICATION TIMES ON THE LAST FLYING DAY (5.1.6 + 5.2.6)

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

The hours between 21:00 and 06:00, 12:00 and 15:00 local time will be disregarded for the purpose of the time limits of complaints and protests. The total rest period per day shall be a minimum of 8 hours and may be divided into two parts, depending on the daylight period.

II.17   FLIGHT CREW (2.2.2)

Rule 2.2.2. does not apply.

II.18   DETAILS FOR THE USE OF GPS LOGGERS (6)

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). Details and instructions on how to purchase and use can be found on balloonlive.org

b) Change the operation mode:

Start the app "Balloon Live" > Menu > Change mode

Select Application Mode

Training mode

To test the app in training flights, the mode "TRAINING" must be used to familiarize with the use of the app. In this mode, no competition data (tracks, declarations and marker drops) is stored.

Pull down the red label to start a new flight.

Competition Mode When entering competition mode, the latest competition data is retrieved from the server. To enter this mode, you must enter the competition token send to you once registered to the event. 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, the latest flight data must also be loaded from the server. This flight data is valid for 5 hours only. Therefor 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. Pull down the red label to start a new flight and transmit the track data to the server.

c) Preconfigured setup for this competition:

- Competition name: See chapter I.1 Name
- Logging interval (seconds):   1
- Live tracking interval (seconds):   30
- UTC offset (seconds):   7200
- Allow multiple marker drops: Not allowed
- Allow multiple goal declarations: Allowed
- Declaration format: 4/4
- Altitude mode: Barometric Feet
- GPS Source: Balloon Live Sensor (Fallback Internal)
- Geodetic system: Swedish SWEFER 99 TM

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 used (phone, tablet, sensor...).
- 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 by pulling down the red label.
- The competitor is considered entering the competition flight according to the selected TDS with the start of the track recording and the take-off.
- During flight the recording device must remain attached to the basket (uprights or basket edge) to ensure optimum GPS reception.
- 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 button is pushed.
- Electronic marker drops are registered at the time when the DROP button is pushed.
- 5-10 minutes after landing and safe balloon handling, the track recording should be stopped by pulling down the green label 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 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 6 hours after the flight has been started. For tracks that are transferred later, the competitor will be penalized 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. Tracks where competitors have given explicit permission will be published. The publication will have a minimum of 10 min delay. No publication of a track should be made before the end of the launch period.

g) Recommendations:

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

II.19   BALLOON SIZE (3.3)

Maximum 120 000 ft^3.

II.20   ALTITUDE (14.6.4)

Barometric altitude will be used for scoring purposes.

II.21 2D/3D SCORING METHODS (12.15)

The separation altitude between 2D and 3D scoring in this event is 2 000 ft MSL.
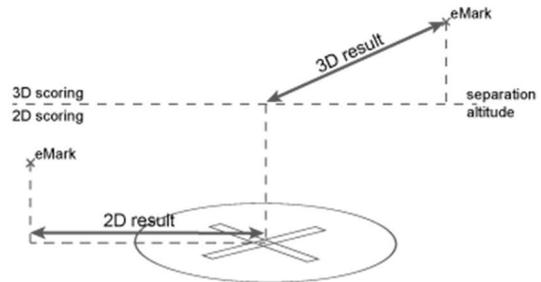
When goals or targets on the ground are used, results based on track points will be the:

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

or

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

When goals/targets above the ground are used, results based on electronic marks will be the 3D-distance.

II.22 COMPETITION STRUCTURE

The competition will be conducted using physical markers and logger scoring as communicated at each task briefing.

II.23 MAP COORDINATES (7.8)

SWEREF99 (map datum WGS84) will be used for map coordinates.

To identify a point on the competition map, the coordinates must be written in 4-4 format.

This format uses two times four-digits. First four digits easting and the second four digits northing. (e.g. 5857-5226), leaving out the 1m digit.

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

II.24 AXMER VERSION

AXMER version 2024, effective April 1st, 2024.

UNDANTAG FRÅN AX MODEL EVENT RULES

SECTION III – RULES

2.3   QUALIFICATION

För att delta som pilot i tävlingen så krävs en erfarenhet om minst 30 timmar som pilot in command för varmluftsballong vid tidpunkten för general briefing.

2.4   SPORTING LICENCE

Varje pilot som tävlar vid Svenska Mästerskapen ska inneha en FAI Sporting Licence som är giltig under hela tävlingen. Vid övriga nationella tävlingar så krävs ingen sportlicens. För tävlingsfunktionärer och lagmedlemmar så krävs ingen sportlicens.

3.7   ALTIMETER

Varje ballong ska medföra en fungerande altimeter samt en FAI Balloon Live Sensor (BLS).

3.8   COMPETITION NUMBERS

Om tävlingsnummer för ballongkorgen ska användas så meddelas det vid general briefing. Lagens alla följebilar måste vara tydligt uppmärkta med lagets tävlingsnummer.