SECTION I - EVENT DETAILS

I. 1   **TITLE**

The Event shall be known as:
Exel Cup 2023

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

N/A

I. 3   **ORGANIZATION**

The Event is organised by:

Dutch Balloon Competition Club

I. 4   **CORRESPONDENCE**

All entries and official correspondence should be addressed to:

Jan Oudenampsen

Bouwhuisweg 11

7245 VL Laren

06-53336933

info@luchtballon.nl

I. 5   **PERSONNEL**

Event Director:	Jonas Maes
Deputy Director:	Patrick Alliet
Safety officer:	Johannes Kooistra
Chief Scorer/Logger	Erwin Pellegrom
Measuring Team Leaders:	Brigitte Fouache and Marnix Dobbelaere
Jury:	When a Jury is required to handle a protest, the Jury will consist of 3 competitors drawn from the pool and not involved in the case.

I. 6   PLACE

The Event will be held at: "Lu Lin"

Oude Lochemseweg 4, 7245 VJ, Exel

Parkeer-en toegangsinstructies volgen via de mail.

I.7   DATES

The Event will run on 30 Septembre 2023. Two flights are planned, one in the morning and one in the evening. In case of bad weather the event will run on 01 October 2023.

I. 8   PROTEST FEE (S1 An3 8.3)

THE PROTEST FEE TO ACCOMPANY A PROTEST SHALL BE € 100

I. 9   LANGUAGE (GS 3.9.5 part)

I. 9.1   THE OFFICIAL LANGUAGE(s) OF THE EVENT SHALL BE ENGLISH *AND DUTCH*. 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 and may additionally be in Dutch. The language used verbally during briefings shall be Dutch or English.*

I. 10   PARTICIPATION (GS 3.6.1 part)

THE EVENT IS OPEN TO ALL NACs WHICH HAVE MET THEIR OBLIGATIONS TO THE FAI.

I. 11   CLOSING ENTRY DATE

The closing entry date for the Event is:
15 September 2023

I. 12   RISK

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

I. 13   INSURANCE

Each balloon shall be insured against all claims by third parties 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)

The competition map will be available for each competitor.

Scales 1/50.000

Mapdatum: WGS 84

UTM grid system

The contest area is *the competition map.*

II. 2   OUT OF BOUNDS (7.2)

N/A

II. 3   PZ LIST (7.3)

PZ list Exel Cup 2022

Nr.	Positie	Radius(m)	Hoogte(vt)	Type	Plaats	Reden
1	0005/7330	250	1000	Rood	Dieren	Paarden
2	0560/7785	250	1000	Rood	Oeken	Paarden
3	0635/7695	250	-----	Geel	Cortenoever	Boer
4	1235/7870	250	1000	Rood	Warnsveld	Paarden
5	2955/1491	250	1000	Rood	Den Ham	
6	2575/7790	250	-----	Geel	Barchem	Boer
7	3340/8020	250	1000	Rood	Noordijk	Paarden
8	0485/8710	1500	-----	Geel	Huize Poll	Eigenaar
9	0925/8825	250	-----	Geel	Gorssel	Boer
10	1425/8610	250	1000	Rood	Reeve	Kippen
11	1500/8460	250	1000	Rood	De Huurne	Varkens
12	1590/8710	250	1000	Rood	Harfsen	Stieren
13	0863/9903	250	1000	Rood	Sion	
14	1710/9030	250	500	Rood	Bathmen	Vogels
15	1955/9045	250	1000	Rood	De Schoolt	Paarden

16	2048/7950	250	1000	Rood	Lochem	Manege
18	0128/7495	250	1000	Rood	Eerbeek	Paarden
19	0379/8395	250	1000	Rood	Voorst	
20	1595/7448	250	------	Geel	Vorden	
21	2300/9900 ⌐ 2200/0200 | 2400/0500 ⊣ vijfhoek 2600/0500 | 2600/9900 ⌐		1000	Rood	Holterberg	N2000
22	3110/0130	250	1000	Rood	Notter	Struisvogels
23	0500/1280	250	1000	Rood	Herxen	Paarden
24	1040/1360	250	-----	Geel	Heino	Boer
25	1580/0955	250	1000	Rood	Raalte	
26	0894/8294	250	1000	Rood	Eefde	Paarden
27	2175/1090	500	-----	Geel	Luttenberg	Boeren
28	2815/7975	500	1000	Rood	Geesteren	Paarden
29	1895/0055	250	-----	Geel	Nieuw-Htn.	Boer
30	1725/9860	250	-----	Geel	Okkenbroek	Boer
31	1550/9850	250	-----	Geel	Okkenbroek	Boer
32	1510/9830	250	-----	Geel	Okkenbroek	Boer
33	1470/9815	250	-----	Geel	Okkenbroek	Boer
34	0580/8810	500	1000	Rood	Wilp	Paarden
35	Competition map		5000	Blauw		TMA
36	2345/8600	100	500	Rood	Exel	Paarden
37	2409/8612	100	500	Rood	Exel	Paarden
38	2104/8579	200	500	Rood	Laren	Paarden
40	3112/0600	200	500	Rood	Raalte	Scharrelvarkens
41	9956/9941	Track	500	Rood	Vaasen	Paarden
42	0096/0827	200	1000	Rood	Heerde	Paarden
43	1780/8678	200	500	Rood	Laren	Scharrelkippen

CLP-List

CLP 01:	2370/8575	Exel
CLP 02:	1050/9229	Colmschate
CLP 03:	0538/1240	Herxen
CLP 04:	3082/0379	Nijverdal
CLP 05:	2297/6853	Veldhoek
CLP 06:	1148/7790	Warnsveld

II. 6   LANDOWNER'S PERMISSION (9.2.2)

Additionally to Rule 9.2.2 the following applies: Before driving into a landing field you should have permission from the landowner! Both for take-off and retrieve!

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)

Dutch driving rules

II. 9   AIR LAW (10.14)

See competition map and the PZ list

II. 10   RECALL PROCEDURE (10.15)

Recall will be done by messaging system (Whatsapp) and, if possible, on air band radio on 122.255 MHz.

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
Limit 1	25m	3 m/s
Limit 2	50m	5 m/s
Limit 3	75m	8m/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)

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.

II. 13 LOCATION OF OFFICIAL NOTICE BOARD (5.10)

https://watchmefly.net/events/event.php?e=exel2022

II. 14 COMMUNICATION TIMES (5.3)

Complaints after last flight will be answered one hour after complaint.

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

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II. 16 FLIGHT CREW (2.2.2)

Pilots may fly their crew or other passengers.

II. 17 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).

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 yourself with the use of

the app. No competition data (tracks, declarations and marker drops) is transmitted and stored while in training mode.

Competition Mode

To enter competition mode, select the appropriate competition from the available competitions in 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. 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. Normally, the new flight data is available latest at the briefing.

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: Exel Cup 2023
- Logging interval (seconds): 1
- UTC offset (seconds): 7200s
- Allow multiple marker drops: inactive
- Allow multiple goal declarations: active
- Declaration format: 4/4
- Altitude mode: GPS (only from BLS)
- 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 a few minutes before take-off by tapping the red button "Start flight".

- 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 leave the app open in the foreground (with flight stopped) and 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 no later than 6 hours after the beginning of the launch period. 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.

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

N/A

II. 19   BALLOON SIZE (3.3)
Maximum size category of AX8 (3000cbm/105000cft)

II. 20   ASSESSED MARK (12.15.2) (for events with observers and no loggers)
N/A

II. 21   ALTITUDE (14.6.4)

The logged GPS altitude will be used for scoring.

II. 22   2D/3D SCORING METHODS (12.22.2) (for events with logger scoring)
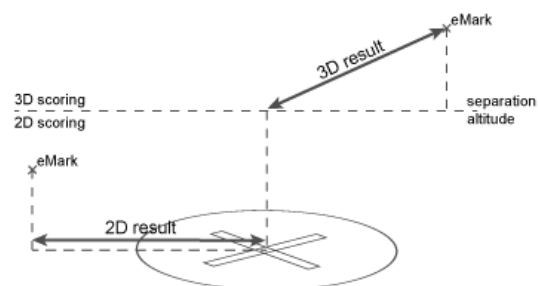The separation altitude between 2D and 3D scoring in this event is 700ft.

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, results based on track points will be the 3D-distance.

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

The competition will be conducted using loggers and no observers.

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

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

To notice take off/landing site you must use 6-7 format

To declare goals, you may use the 4-4 format

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 two times four-digits. First four digits easting and the second four digits northing. (e.g. 5857-5226), 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 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's first.

Extra notes:

Lost marker € 20,-

Lost or damaged BLS: € 300,-

Maps € 20,-

Competition frequency 122.255

Extension of Time: Maes Jonas - 00 32 477 16 02 73

Logger problems: Erwin Pellegrom – 00 31 6 557 607 20

Sunrise: 07:30hr LT

Sunset: 19:20hr LT