



European Model Flying Union

Experiences implementing EU rules in AUSTRIA

Austrian Aeroclub

Bernhard Roegner

Josef Jahn

Experiences implementing EU rules in AUSTRIA

REGISTRATION

- The registration as an operator of a UAS requires a minimum age of 18 years and remains valid for a duration of 3 years.
- costs are 36 €
- The competency proof is conducted online and is free of charge.

EXCEPTIONS TO THE OPEN CATEGORY:

- The implementation of EU Regulation 2019/947 in Austria was carried out using the provisions of Article 16(b).
- Roughly 280 model flying clubs are organized within the ÖAeC (Austrian Aero Club), and approximately 230 of them have applied for an operational permit so far.
- Roughly 200 of these clubs have already received an operational permit from the competent authority ACG (Austro Control GmbH).
- The costs for a permit range from 350 to 850 euros.



European Model Flying Union

Details for an Article 16 decision:

APPLICATION SHALL INCLUDE

- The club's application formular
- Extract from the Austrian club register
- Identification card of the authorized representative of the club
- Proof of ownership/lease or rental agreement for the airfield
- Map of the flying area
- Detailed plan of the airfield
- General rules of the ÖAeC for model flying
- Individual model airfield operational regulations

CREDITS

- Approved flight altitudes exceeding 120 meters above ground level (up to a maximum of 150 meters within Control Zones and, in uncontrolled airspace, up to a maximum of 500 meters if there is no expected impact on manned aviation).
- The Maximum Takeoff Mass (MTOM) can be extended from 25 up to 150 kilograms.
- Minimum age for remote pilots may be decreased to 12 years.

UTM-SYSTEM AUSTRIA

available since 24.10.2023



Benefits:

- System offers an easy access to get a ATC Clearance for UAS Operations in Control Zones (CTR)
- Announcing UAS/Aeromodelling activities in airspace G
- Only one operator (but perhaps more than one remote pilot) may use the airspace



Non-cooperative operators or remote pilots can potentially harm the system.



European Model Flying Union

Key features

Flight authorization and activation

Geozones (ED269)

ATM/UTM integration

AIM (Airspaces), AFTN/AMHS (NOTAMs, METARs, etc.), ~~Asterix (Surveillance)~~

ATM/UTM coordination

~~2-way messaging~~

~~Strategic Deconfliction~~

~~Tactical Deconfliction~~

~~Noise Management~~

~~Fairness Monitoring~~

~~Drone Telemetry~~

(Strikethrough features not part of initial rollout)

BR1



Sign in / Sign up

Flight plans and log

Notifications

My profile

Report occurrence

Additional information

Privacy Policy

Terms & conditions

Impressum

Login

Please login or [create a user account](#).

E-mail

bernhard.roegner@aon.at

Password

.....

[Forgot your password?](#)

LOGIN

GOOGLE

APPLE

LINKEDIN

Stay logged in

Language English

Sign in / Sign up

DIALOG BUTTON

BUTTON for CREATING FLIGHT PLAN

Slide 6

BR1 Nach dem Öffnen der Anwendung erscheint die Karte Österreichs. Flughäfen und Flugplätze und Heliports sind eingetragen. Ebenso Restricted Areas und danger Areas.

Bernhard Rögner, 18/11/2023

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Impressum

Operator: Bernhard Rögner

Flight plans and log

Active flights

No entries

Cancelled flight plans

Versuch Flight plan closed
5.11.2023 | 15:16-16:46

Rejected flight plans

Modellsegelflug Flight plan closed
13.10.2023 | 09:41-10:11

Modellflug Flight plan closed
12.10.2023 | 14:20-14:40

privat Flight plan closed
12.10.2023 | 09:52-10:22

Closed flight plans

Modellsegelflug
16.11.2023 | 19:18-19:46 |

Modellsegelflug
16.11.2023 | 19:17-19:47 |

Test
11.11.2023 | 17:10-17:40 |

Modellflug
11.11.2023 | 15:45-16:15 |

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austro CONTROL

SUMMARY of YOUR FILED FLIGHT PLANS



Step 1 of 3: Enter planned flight area

Circular Route Area

Click map to create flight path or area.

Radius 300 m

Import KML, GPX or GeoJSON:





Step 2 of 3: Enter flight plan and pilot in command details

First name *	<input type="text" value="Bernhard"/>	Last name *	<input type="text" value="Rögner"/>
E-mail address *	<input type="text" value="bernhard.roegner@aon.at"/>	Phone number *	<input type="text" value="+436644613683"/>
Drone	<input type="text" value="Select:"/>	Type of operation *	<input type="text" value="VLOS"/>
Maximum takeoff mass (g) *	<input type="text" value="5000"/>	Max. altitude above ground (m) *	<input type="text" value="119"/>
Public title of your flight *	<input type="text" value="Test06"/>		
Start date and time *	<input type="text" value="18.11.2023 17:25"/>	End date and time *	<input type="text" value="18.11.2023 17:55"/>

All dates/times in local time.



Step 3 of 3: Summary

First name Bernhard	Last name Rögner
E-mail address bernhard.roegner@aon.at	Phone number +436644613683
Drone Aircraft serial no.	Maximum takeoff mass 5000 Type of operation vlos
Public title of your flight Test06	Max. altitude above ground 119
Start date and time Sat Nov 18 2023 17:30:00 GMT+0100 (Mitteleuropäische Normalzeit)	End date and time Sat Nov 18 2023 17:56:29 GMT+0100 (Mitteleuropäische Normalzeit)

The following airspace restrictions must be considered for the planned flight:

- Zusätzliche Bestimmungen / additional provisions**
Adhere to all [provisions](#) applicable to your drone category. For common drone models, you can help yourself with this [checklist](#).
SFC → UNL
- Flugplanabgabe freiwillig / voluntary flight plan submission**
The submission of an operation plan for a flight in this area is voluntary, unless additional restrictions indicate otherwise.
SFC → UNL

By submitting the flight plan, I confirm the accuracy of the information provided as well as compliance with all applicable national and European regulations, in particular the Implementing Regulation (EU) 2019/947, the "Luftfahrtgesetz", the "Luftverkehrsregeln 2014" and the information published in a manner customary in aviation. Furthermore, I confirm that I have obtained the authorization required for the respective zone, if applicable, and that I have the required authorization in the Specific category or that I meet all the requirements and conditions of the Open category. Violations, in particular the failure to obtain required authorizations or clearances, may be punished with an administrative fine of up to 22,000 euros.

send the flight plan



Operator: Bernhard Rögner

Flight plans and log

Active flights

No entries

Pending flight plans

Test06 Ready for activation (click here)
18.11.2023 | 17:30-17:56

Cancelled flight plans

Test03 Flight plan closed
18.11.2023 | 16:16-16:46

Versuch Flight plan closed
5.11.2023 | 15:16-16:46

Rejected flight plans

Modellsegelflug Flight plan closed
13.10.2023 | 09:41-10:11

Modellflug Flight plan closed
12.10.2023 | 14:20-14:40

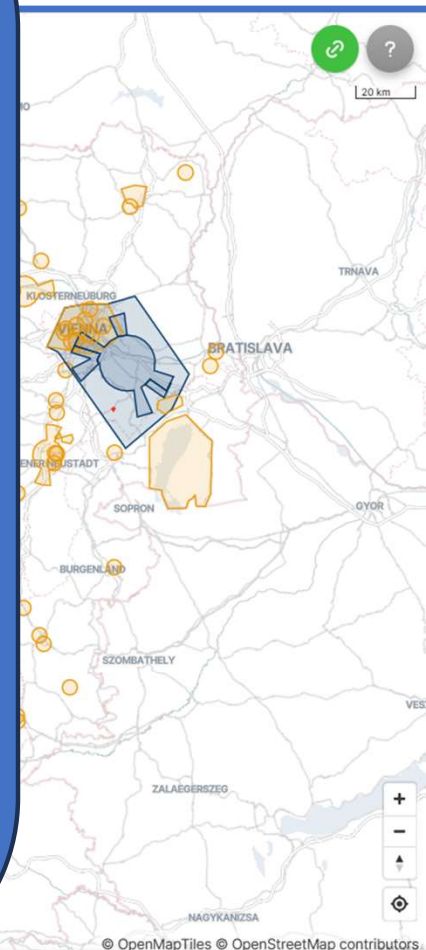
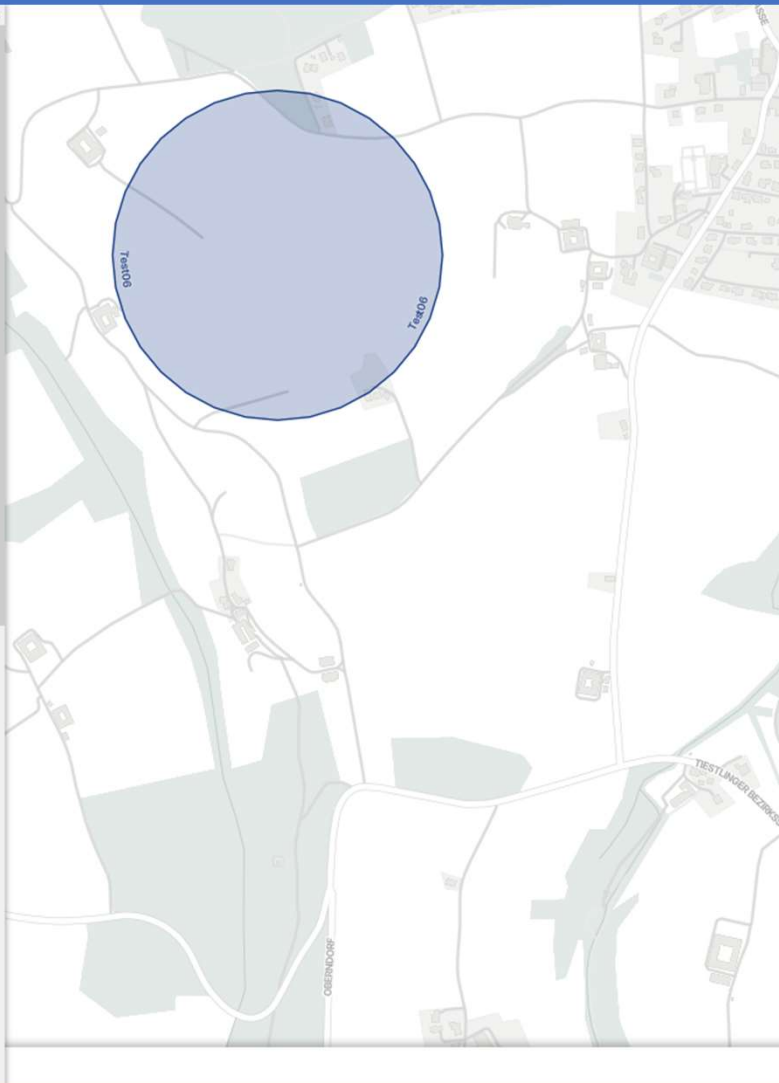
privat Flight plan closed
12.10.2023 | 09:52-10:22

Closed flight plans

Test04
18.11.2023 | 16:27-16:57 |

Test02
18.11.2023 | 16:11-16:40 |

Modellsegelflug





Operator: Bernhard Rögner

Test06

Start time 18.11.2023 17:30
End time 18.11.2023 17:56
Duration 26:29
Max. altitude above ground 119
Type of operation VLOS

Open remarks

Please note the following points before starting your flight:

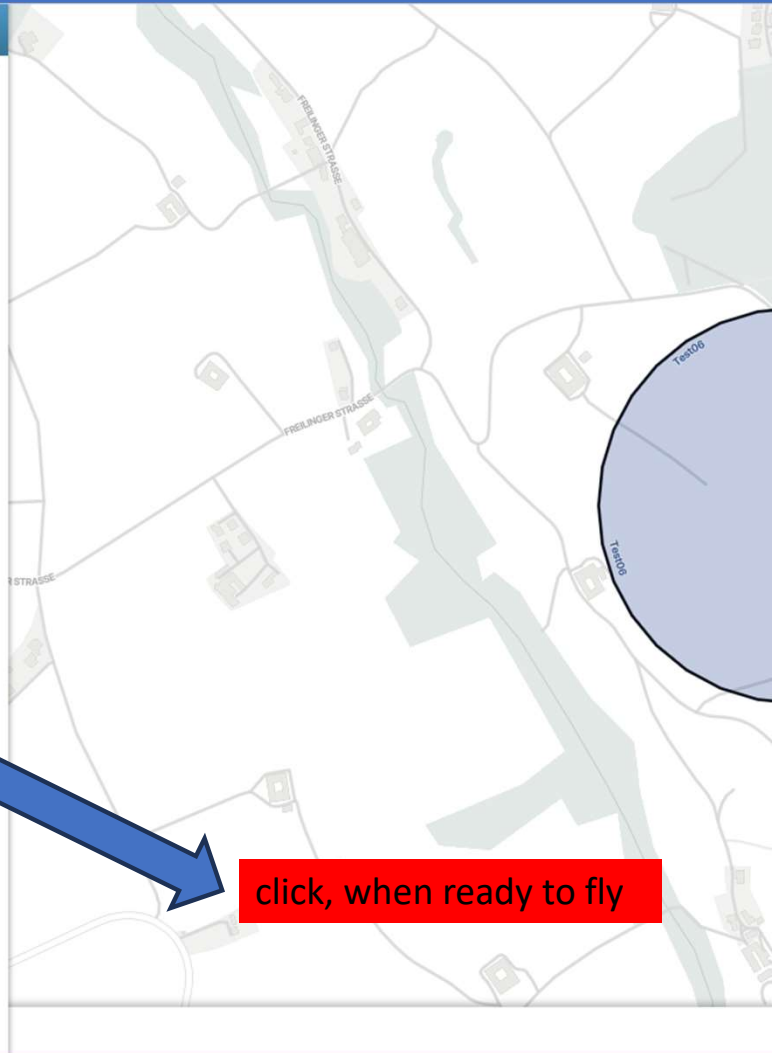
- You have an appropriate remote pilot competency for the operation of unmanned aerial vehicles and carry proof of competency with you.
- You have obtained updated information about any geographical zones applicable to your flight and will adhere to the corresponding operating conditions.
- You have checked the operating environment for obstructions and determined if uninvolved persons are present.
- You have ensured that your aircraft is in safe condition.
- You have ensured that the mass of any additional payload carried by the UAS does not exceed the MTOM established by the manufacturer.

Cancel flight intentions

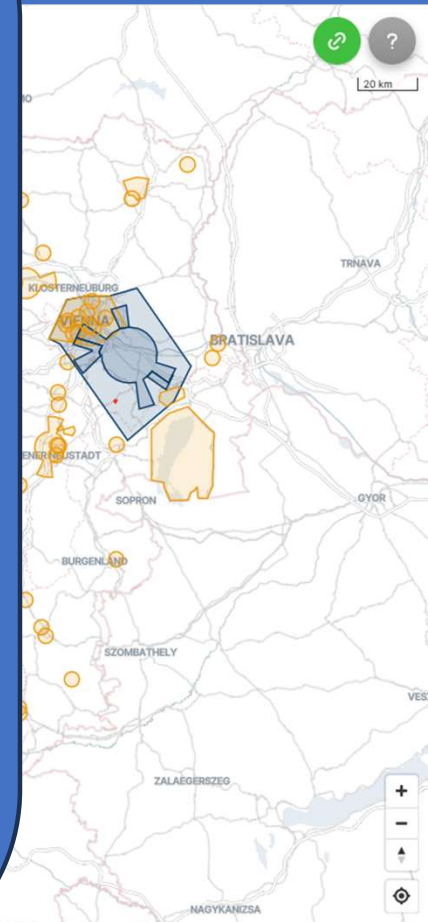
Begin flight / request take-off

Request account deletion

v1.38.11



click, when ready to fly



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austro CONTROL



Operator: Bernhard Rögner

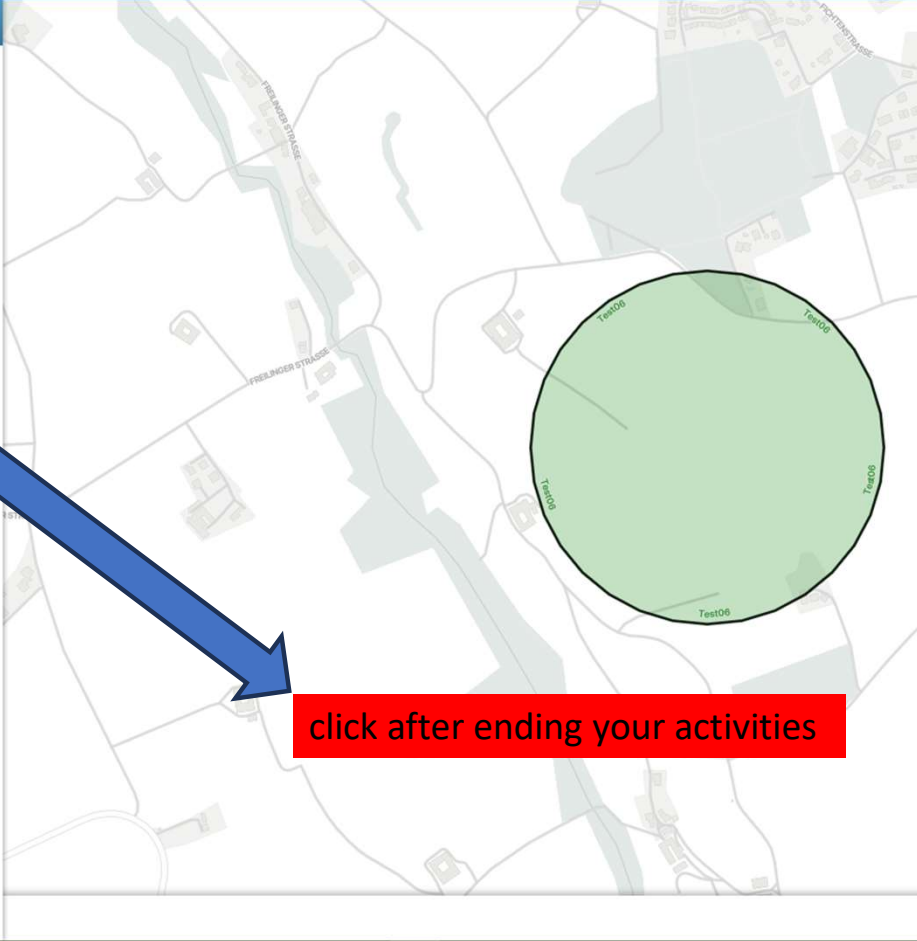
Test06

Start time 18.11.2023 17:30
End time 18.11.2023 17:56
Duration 26:29
Max. altitude above ground 119
Type of operation VLOS

[Open remarks](#)

[End flight](#)

[Request account deletion](#)



click after ending your activities

Airspace Manager View

The interface displays a map of Central Europe, primarily Austria and Slovenia, with various drone flight restrictions. The map shows several colored polygons representing restricted areas, with labels like 'LOWW' and 'LOWG'. A vertical scale on the left indicates altitudes from 0FT to >16404FT. The bottom of the map shows the date and time: 2023-11-22 17:01 UTC.

On the right side, there is a control panel with several sections:

- DRONE PLANS:** 0 pending, 1 authorized, 3 active, 0 upcoming.
- ACTIVE DRONES:** 0.
- GEOZONES:** 15.
- MESSAGES:** 0.
- TASKS:** 3.

The task list includes the following entries:

Time	Date	Task Name
13:38	2023-09-29	164.04FT HAE max.
14:36	2023-09-29	Emergency Services R...
10:13	2023-10-17	98FT HAE max.
10:42	2023-10-17	SGG Test
07:10	2023-11-06	72FT HAE max.
07:40	2023-11-06	greg

At the bottom right, there are buttons for 'Create Plan', 'List View', 'Favorite', 'Approve', 'Reject', 'Req. Act.', and 'Send Message'. The current coordinates are 481322N 0154603E and the time is 17:01:23 UTC.

Airspace Manager Flight Approval

The interface displays a map of an area with a blue polygon representing a flight plan. The map includes labels for locations like Rapoltendorf, Untergrafendorf, Röhrenbach, and Wiesen. A scale bar indicates 500m. The sidebar on the right shows the following counts:

- DRONE PLANS: 0 (yellow), 1 (blue), 3 (green), 0 (purple)
- ACTIVE DRONES: 0
- GEOZONES: 99+ (purple), 15 (blue)
- MESSAGES: 0
- TASKS: 3

The main panel on the right shows flight plan details for a plan created on 2023-11-22 at 16:57 UTC. The status is 'AUTHOR.' (Authorized). The flight details include:

- Time: 16:57
- Date: 2023-11-22
- Altitude: 500FT HAE max.
- Activity: Testflug
- Status: AUTHORIZED
- Operator: Josef Jahn
- Contact: +47664608503222, josef.jahn@gmail.com
- Notes: frequentis, Location Alias missing, VLOS

At the bottom, there are controls for 'Restrict AOR', 'OK', and a status bar showing coordinates '481322N 0154603E' and time '16:58:01 UTC'. The bottom left has 'Layout' and 'Map Layers' options.



European Model Flying Union

Airspace Manager Messaging

DRONE PLANS | PENDING, AUTHOR, AC

Free Text:

Severity Type*:

Type*:

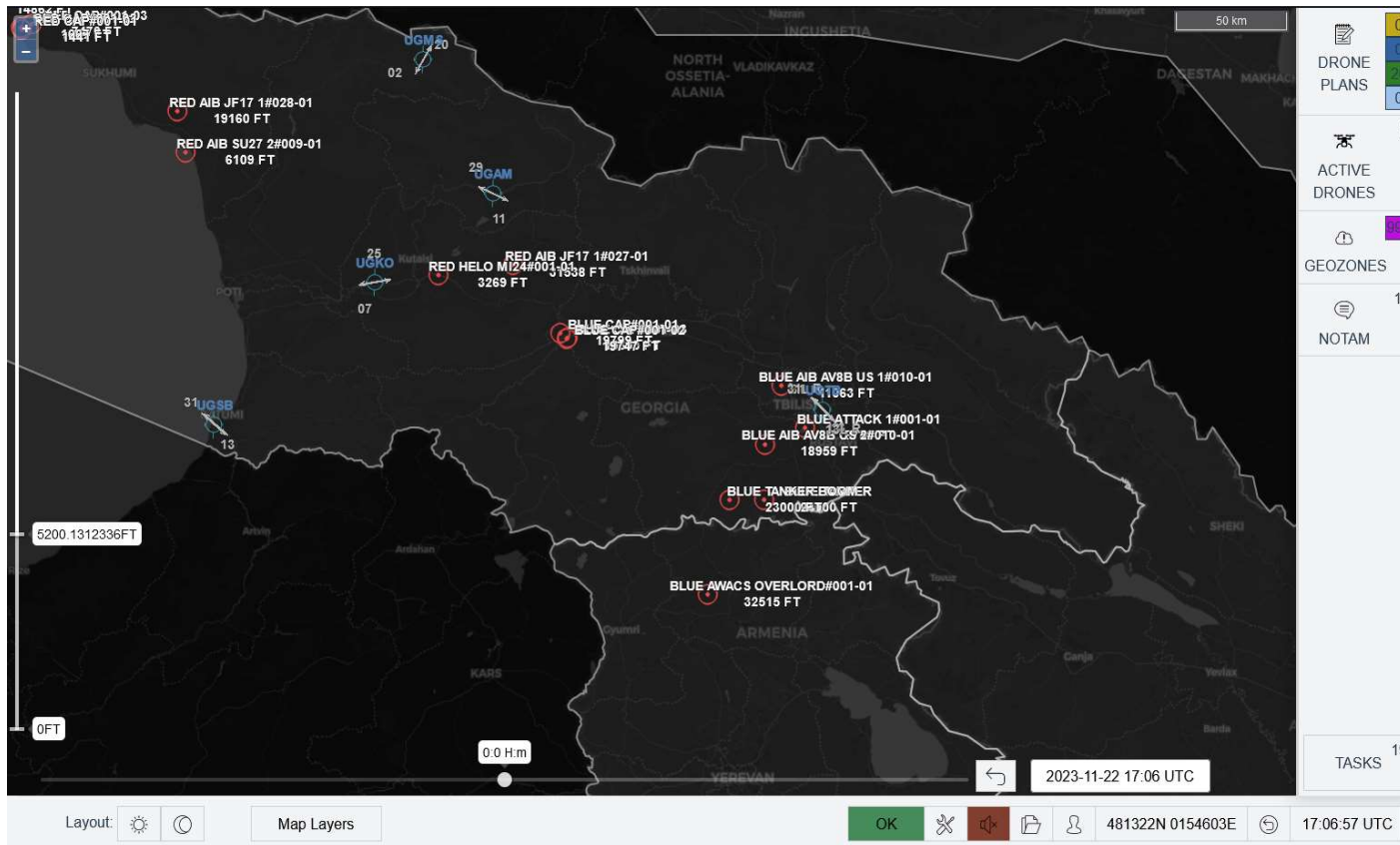
64.04FT HA
Emergency S
8FT HAE m

10:42 2023-10-17 SGG Test
07:10 2023-11-06 72FT HAE m

15
GEOZONES

0

Surveillance and Telemetry display



Strategic goals
Geozone for each RC airfield
CAAs don't want to permanently reserve
airspace
Activation/Deactivation of geozone by club
members

This could be manual, automated or done via a schedule

Because active RC airfields are known in
real time, no need for general altitude
restrictions (within VLOS)