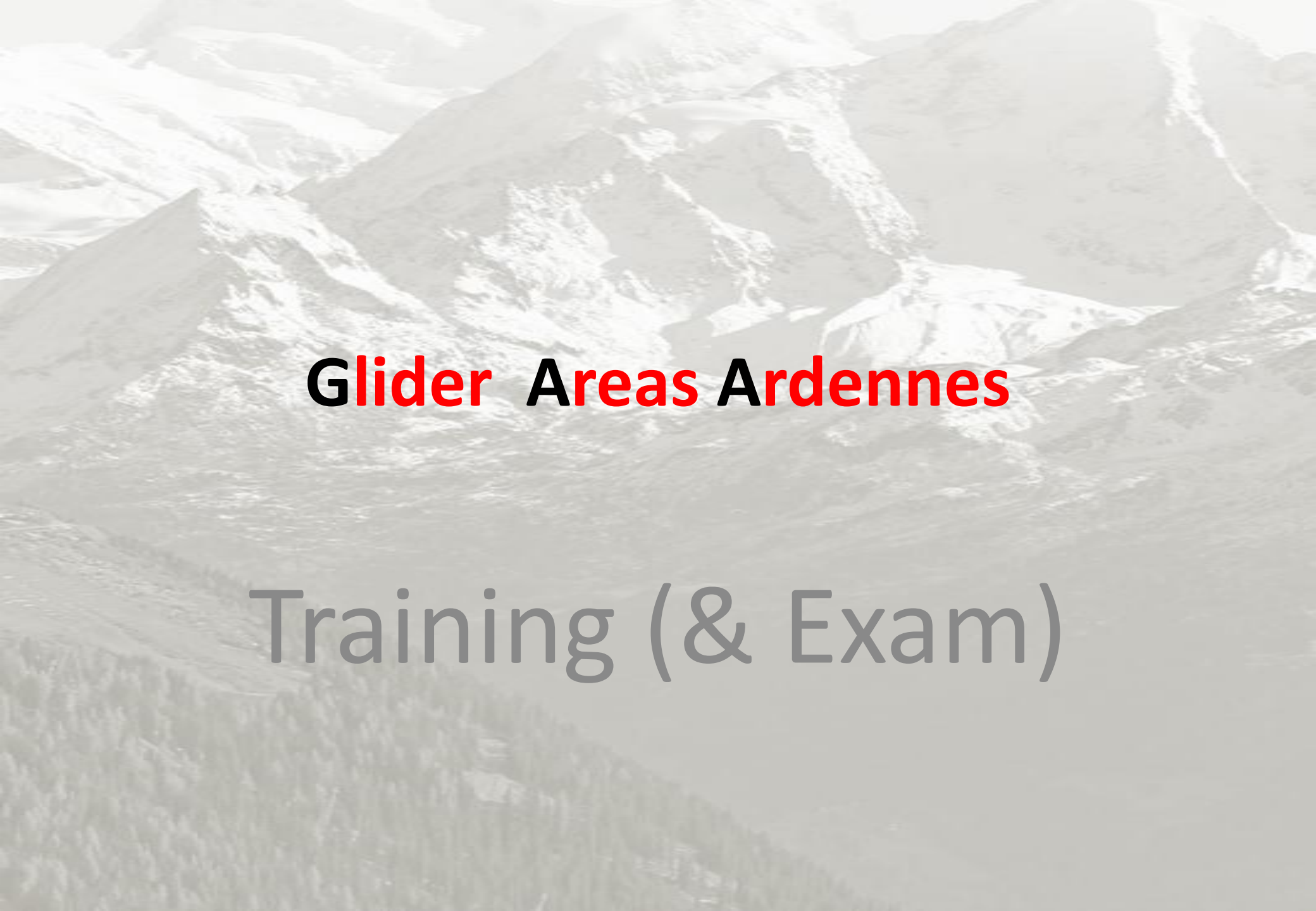




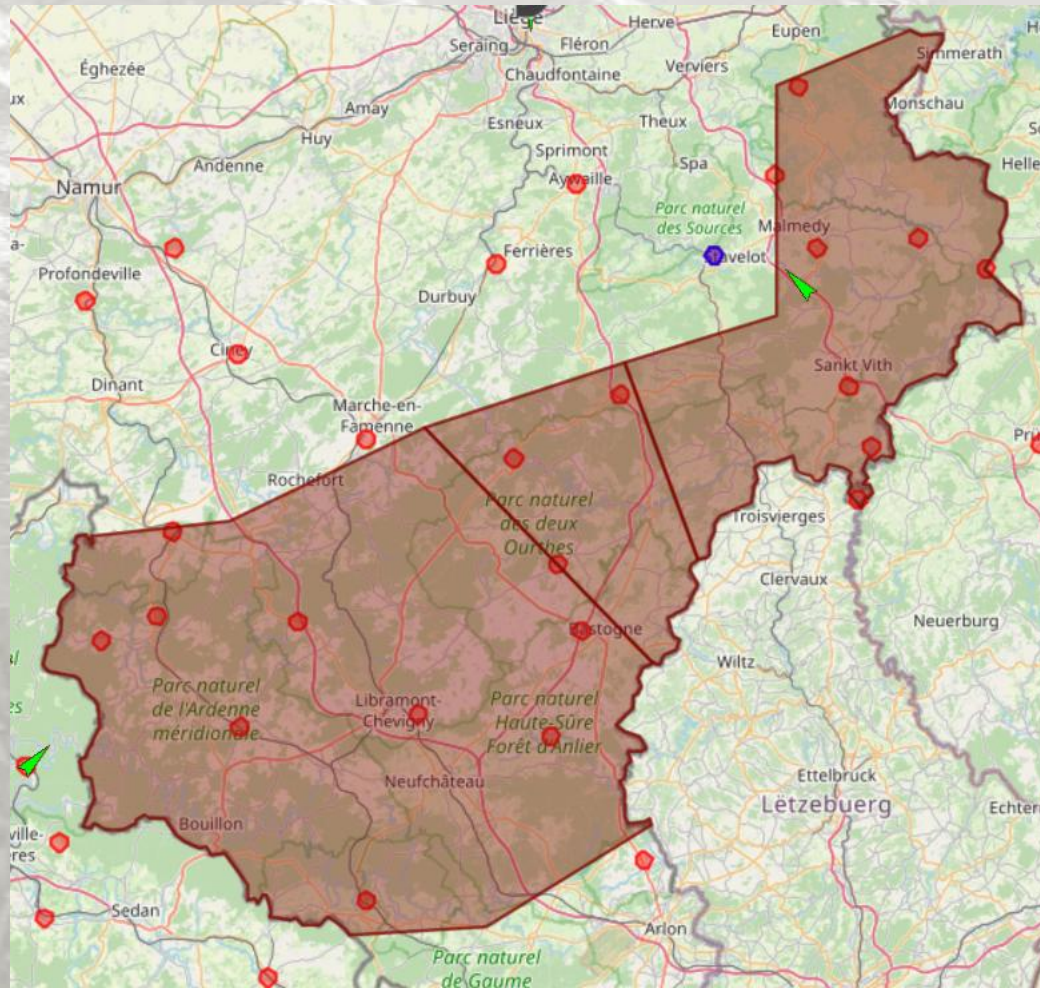
Glider Areas Ardennes

Training (& Exam)

What is the “GAA” certificate?

- Agreement with MIL
→ « OK to fly within GAA zones for identified, authorized pilots, complying with specific conditions »
- New knowledge, new rules ==> new responsibilities
- An additional “GAA” certificate
 - “Pilote”
 - “Pilote XC”
 - “Pilote XC GAA”

GAA = FL65 during the week!



Conditions to fly within GAA zones

The pilot has to:

- follow a **GAA training**
 - successfully pass the **GAA exam**
 - have signed the **GAA charter**
 - fly with **Livetracking** (XCTrack/Xcontest or Flymaster) **whenever the pilot go flying**
 - own and use a radio able to **listen to EBSH frequency** (122.180 /8.33KHz)
 - Use **EBSH Tower app** on an Android smartphone whenever flying within GAA zones
- receive a **FBVL GAA NUMBER CERTIFICATE** once all conditions are met.

Accountability through a charter:

Additional
GAA
specific
rules

Additional
responsibili-
ties in GAA

Additional
tools to
handle
them

A charter to
formalise
the pilot's
commitment

Engagements du pilote XC « GAA » :

En tant que pilote XC - GAA :

- Je suis pilote certifié « GAA » ayant suivi la formation relative aux règles et usages spécifiques des « GAA ». Je dispose donc du brevet « GAA » N°.....
- Je dispose d'un dispositif de live tracking qui permet à toute personne de m'identifier lorsque je suis en vol. J'utilise le système de Livetracking suivant:

- o Flymaster
- o Xcontest

Identifiant :
Depuis le:

- Je dispose d'une radio me permettant de rester en veille sur la fréquence de St Hubert et je m'engage à assurer une veille sur cette fréquence tout au long du vol lorsque je suis amené à entrer dans une GAA active.
- Je dispose de l'app EBSH Tower et je m'engage à l'utiliser lors de mes vols lorsque je suis amené à entrer dans une GAA active.
- Je m'engage à mettre tout en œuvre, dans la mesure où la sécurité du pilote ou d'autrui n'est pas menacée, pour voler en toute légalité.

Ceci comprend :

- o Une préparation adéquate du vol (AIP + NOTAM, conditions météo, connaissances des espaces aériens à proximité de la zone d'évolution, etc.)
- o Une adaptation du vol effectué en fonction des conditions réelles rencontrées

- Je m'engage à voler avec un système de Livetracking public à tout moment, y compris lorsque je n'évolue pas dans une zone GAA.

Ceci dans le but de :

- o Optimiser la sécurité du vol et la sécurité
- o Rentrer dans le cadre d'une collaboration multidisciplinaire
- o Servir d'exemples pour les autres pilotes
- o Eviter les infractions.

J'ai bien pris conscience que le fait de voler sans Livetracking actif m'expose à la déchéance de mon brevet XC – GAA.

La sécurité est l'affaire de tous et dans l'aviation celle-ci s'est construite sur l'expérience et le partage d'informations. Il n'y a donc pas, derrière les requis cités ici avant, de volonté ou souhait répressif, mais bien un partage d'informations au bénéfice de tous

Le pilote (Nom, signature):

Pour la FBVL :

Charter

Engagements du pilote XC « GAA » :

En tant que pilote XC - GAA :

- Je suis pilote certifié « GAA » ayant suivi la formation relative aux règles et usages spécifiques des « GAA ». Je dispose donc du brevet « GAA » N°.....
- Je dispose d'un dispositif de live tracking qui permet à toute personne de m'identifier lorsque je suis en vol. J'utilise le système le Livetracking suivant:

- o Flymaster
- o Xcontest

Identifiant :

Depuis le:

- Je dispose d'une radio me permettant de rester en veille sur la fréquence de St Hubert et je m'engage à assurer une veille sur cette fréquence tout au long du vol lorsque je suis amené à entrer dans une GAA active.
- Je dispose de l'app EBSH Tower et je m'engage à l'utiliser lors de mes vols lorsque je suis amené à entrer dans une GAA active.

- Je m'engage à mettre tout en œuvre, dans la mesure où la sécurité du pilote ou d'autrui n'est pas menacée, pour voler en toute légalité.

Ceci comprend :

- o Une préparation adéquate du vol (AIP + NOTAM, conditions météo, connaissances des espaces aériens à proximité de la zone d'évolution, etc.)
- o Une adaptation du vol effectué en fonction des conditions réelles rencontrées

- Je m'engage à voler avec un système de Livetracking public à tout moment, y compris lorsque je n'évolue pas dans une zone GAA.

Ceci dans le but de :

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- o Rentrer dans le cadre d'une collaboration multidisciplinaire
- o Servir d'exemples pour les autres pilotes
- o Eviter les infractions.

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La sécurité est l'affaire de tous et dans l'aviation celle-ci s'est construite sur l'expérience et le partage d'informations. Il n'y a donc pas, derrière les requis cités ici avant, de volonté ou souhait répressif, mais bien un partage d'informations au bénéfice de tous

Le pilote (Nom, signature):

Pour la FBVL :

.....

.....

Subjects :

- Specific GAA Knowledge
 - How GAA works
 - Radio and EBSH-Tower app monitoring
 - **GAA commitment**
- EBSH-Tower app
 - How, why, when
 - Messages for confirmation
- Tools for GAA and flights in general
 - Airspace.xcontest.org
 - Friendly Air Tool
 - Skeyes – AIP – Notams
 - BPC Facebook group briefings
 - Livetracking: XCTrack/Xcontest and Flymaster
- XC reminder
 - Altimetry
 - Airspaces
 - LFA Golf

Specific GAA Knowledge

3 GLIDER AREAS ARDENNES

EBBUGLD11 - GLIDER AREA SAINT-HUBERT ⁽¹⁾⁽²⁾

Lateral limits	Vertical limits	Type of restriction / nature of hazard	Time of activity
500557N 0045210E - 500657N 0050553E - 501252N 0052512E - 495757N 0054744E - along the Belgian-Luxembourg border - 494738N 0054729E - 494106N 0053116E - 494038N 0051741E - along the Belgian-French border - 500557N 0045210E. ⁽³⁾	FL 065 / 4500 FT AMSL	Glider activity. ⁽⁴⁾	by NOTAM ⁽⁵⁾⁽⁶⁾
⁽¹⁾ Airspace class G during activation. ⁽²⁾ Gliders equipped with transponders should select code A1477. ⁽³⁾ Conflicting areas activated by NOTAM are excluded, except TSA25C and TSA26B. ⁽⁴⁾ Non-military aircraft should establish two-way radio contact with Saint-Hubert Radio on 122.180 MHz or Bertrix Radio on 130.130 MHz, as applicable. ⁽⁵⁾ May be activated from 01 APR till 30 SEP, from 1000 (0900) to SS (or the closure of Steenokkerzeel ATCC, whichever is earlier). NOTAM will be issued not later than 1600 (1500) on the day before activation. ⁽⁶⁾ Activation can be checked with Brussels FIC (FREQ 126.900 MHz or TEL +32 (0) 2 206 29 49) or Steenokkerzeel ATCC (FREQ 129.325 MHz or TEL +32 (0) 2 443 82 04).			

EBBUGLD12 - GLIDER AREA LA ROCHE ⁽¹⁾⁽²⁾

Lateral limits	Vertical limits	Type of restriction / nature of hazard	Time of activity
501252N 0052512E - 501654N 0054455E - 500426N 0055210E - along the Belgian-Luxembourg border - 495757N 0054744E - 501252N 0052512E. ⁽³⁾	FL 065 / 4500 FT AMSL	Glider activity. ⁽⁴⁾	by NOTAM ⁽⁵⁾⁽⁶⁾
⁽¹⁾ Airspace class G during activation. ⁽²⁾ Gliders equipped with transponders should select code A1477. ⁽³⁾ Conflicting areas activated by NOTAM are excluded. ⁽⁴⁾ Non-military aircraft should establish two-way radio contact with Saint-Hubert Radio on 122.180 MHz. ⁽⁵⁾ May be activated from 01 APR till 30 SEP, from 1000 (0900) to SS (or the closure of Steenokkerzeel ATCC, whichever is earlier). NOTAM will be issued not later than 1600 (1500) on the day before activation. ⁽⁶⁾ Activation can be checked with Brussels FIC (FREQ 126.900 MHz or TEL +32 (0) 2 206 29 49) or Steenokkerzeel ATCC (FREQ 129.325 MHz or TEL +32 (0) 2 443 82 04).			

EBBUGLD13 - GLIDER AREA MALMEDY ⁽¹⁾

Lateral limits	Vertical limits	Type of restriction / nature of hazard	Time of activity
501654N 0054455E - 501955N 0055956E - 503420N 0055956E - 503754N 0061308E - along the Belgian-German border - 500748N 0060816E - along the Belgian-Luxembourg - 500426N 0055210E - 501654N 0054455E. ⁽²⁾	FL 065 / 4500 FT AMSL	Glider activity. ⁽³⁾	by NOTAM ⁽⁴⁾⁽⁵⁾
⁽¹⁾ Airspace class G during activation. ⁽²⁾ Conflicting areas activated by NOTAM are excluded. ⁽³⁾ Non-military aircraft should establish two-way radio contact with Saint-Hubert Radio on 122.180 MHz. ⁽⁴⁾ May be activated from 01 APR till 30 SEP, from 1000 (0900) to SS (or the closure of Steenokkerzeel ATCC, whichever is earlier). NOTAM will be issued not later than 1600 (1500) on the day before activation. ⁽⁵⁾ Activation can be checked with Brussels FIC (FREQ 126.900 MHz or TEL +32 (0) 2 206 29 49) or Steenokkerzeel ATCC (FREQ 129.325 MHz or TEL +32 (0) 2 443 82 04).			

GAA 2025: notam example

FROM: 01 APR 2025 09:00 TILL: 01 APR 2025 18:15
EBBUGLD13 GLIDER AREA MALMEDY ACT
Lower limit: 4500FT AMSL Upper limit: FL065

FROM: 01 APR 2025 09:00 TILL: 01 APR 2025 18:15
EBBUGLD12 GLIDER AREA LA ROCHE ACT
Lower limit: 4500FT AMSL Upper limit: FL065

FROM: 01 APR 2025 09:00 TILL: 01 APR 2025 18:15
EBBUGLD11 GLIDER AREA SAINT-HUBERT ACT
Lower limit: 4500FT AMSL Upper limit: FL065

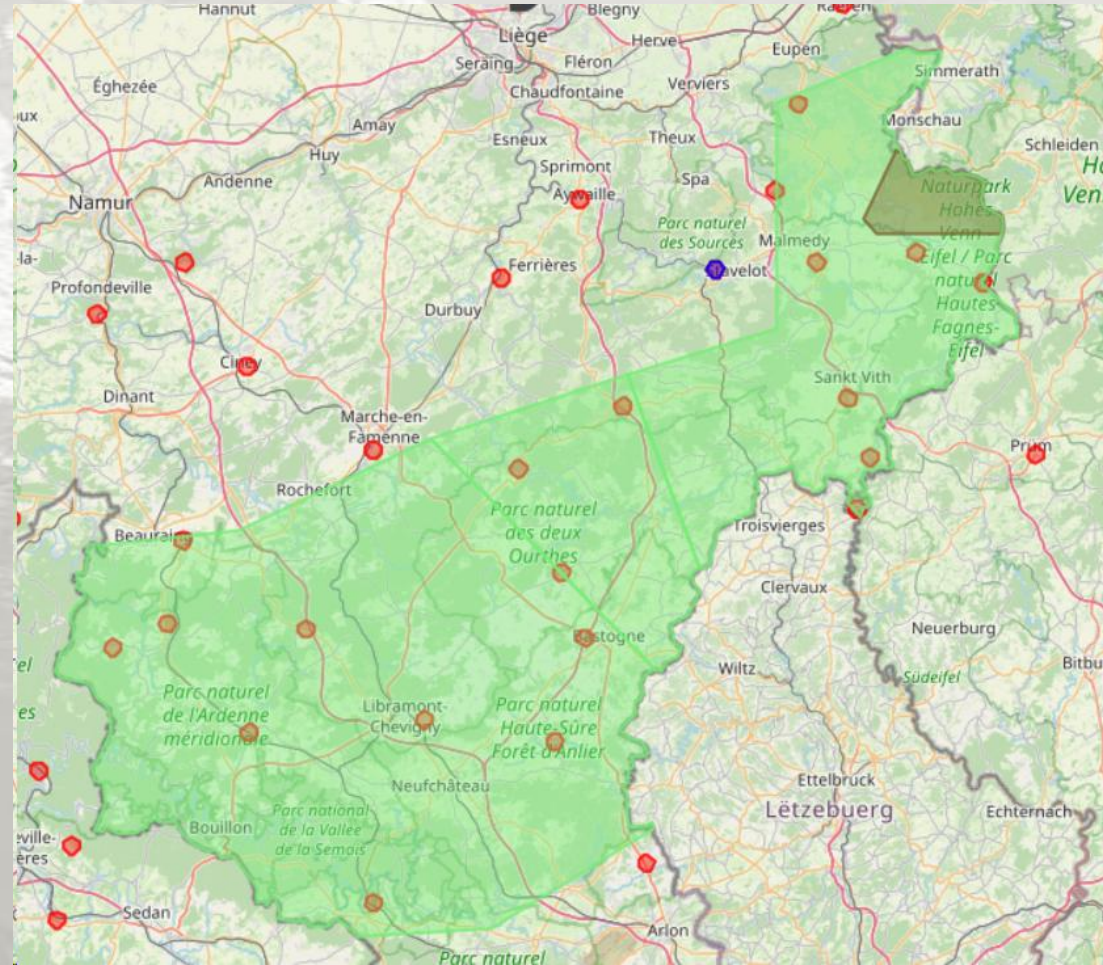
How GAA work?

The Glider Areas Ardennes (GAA), like the LFA-G, are specific **extension of the G class** airspace.

Differing from the usual non-controlled airspace, few specific rules to take into account.

3 different areas (2023):

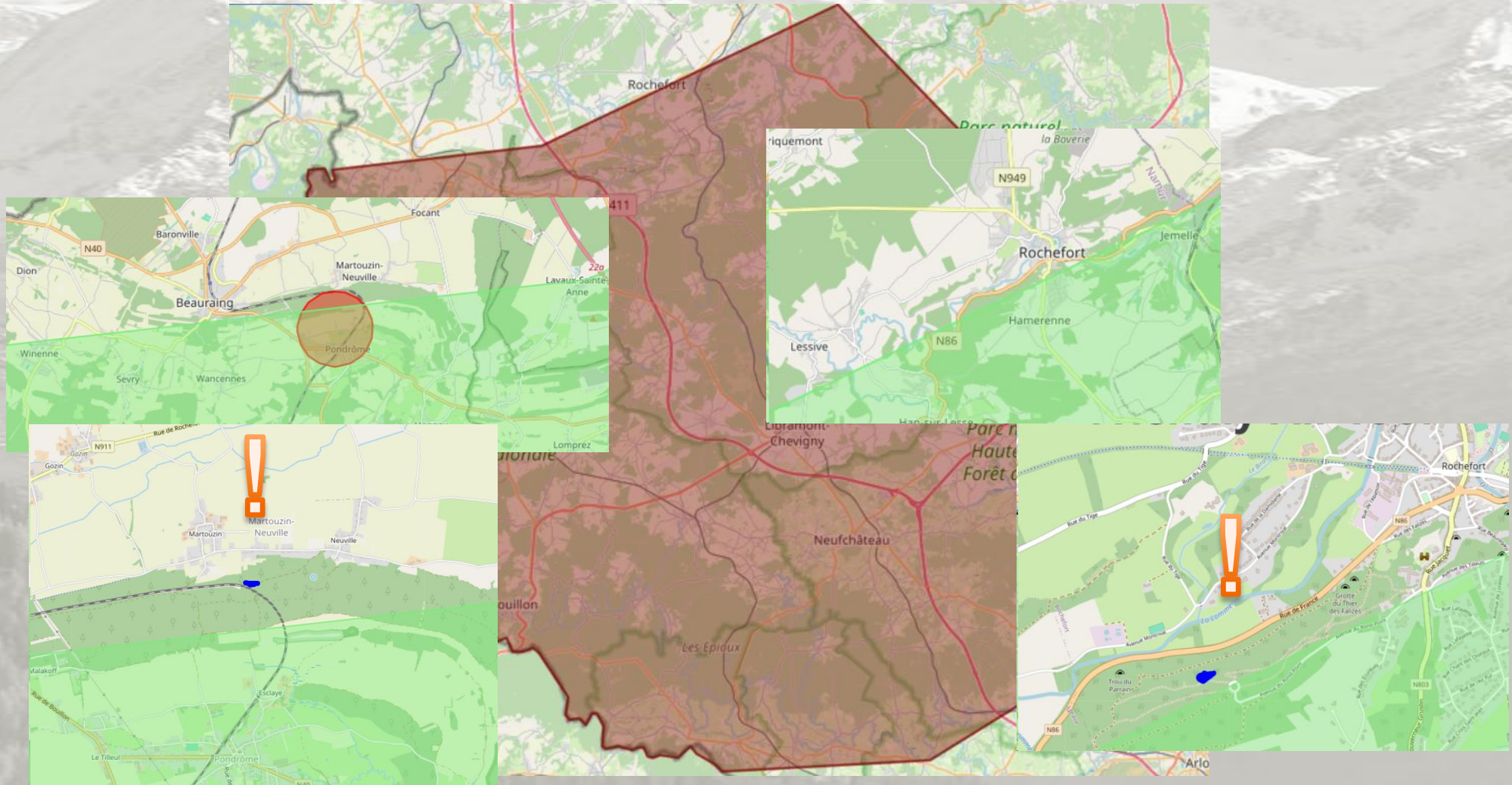
- **GA Saint-Hubert**
- **GA La Roche**
- **GA Malmedy.**



USE the Friendly AIR Tool to check details: <https://mids.be/fat/fat.php> Select GAA down the list!
CHECK ALTITUDE tranches to display!

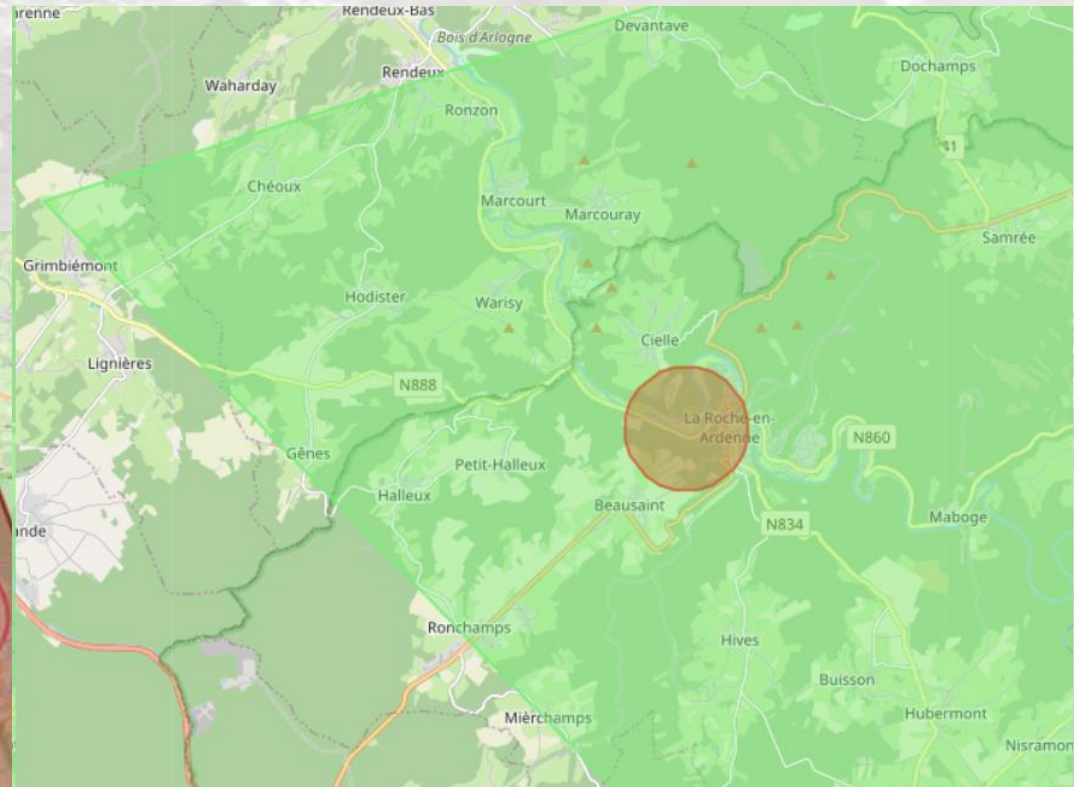
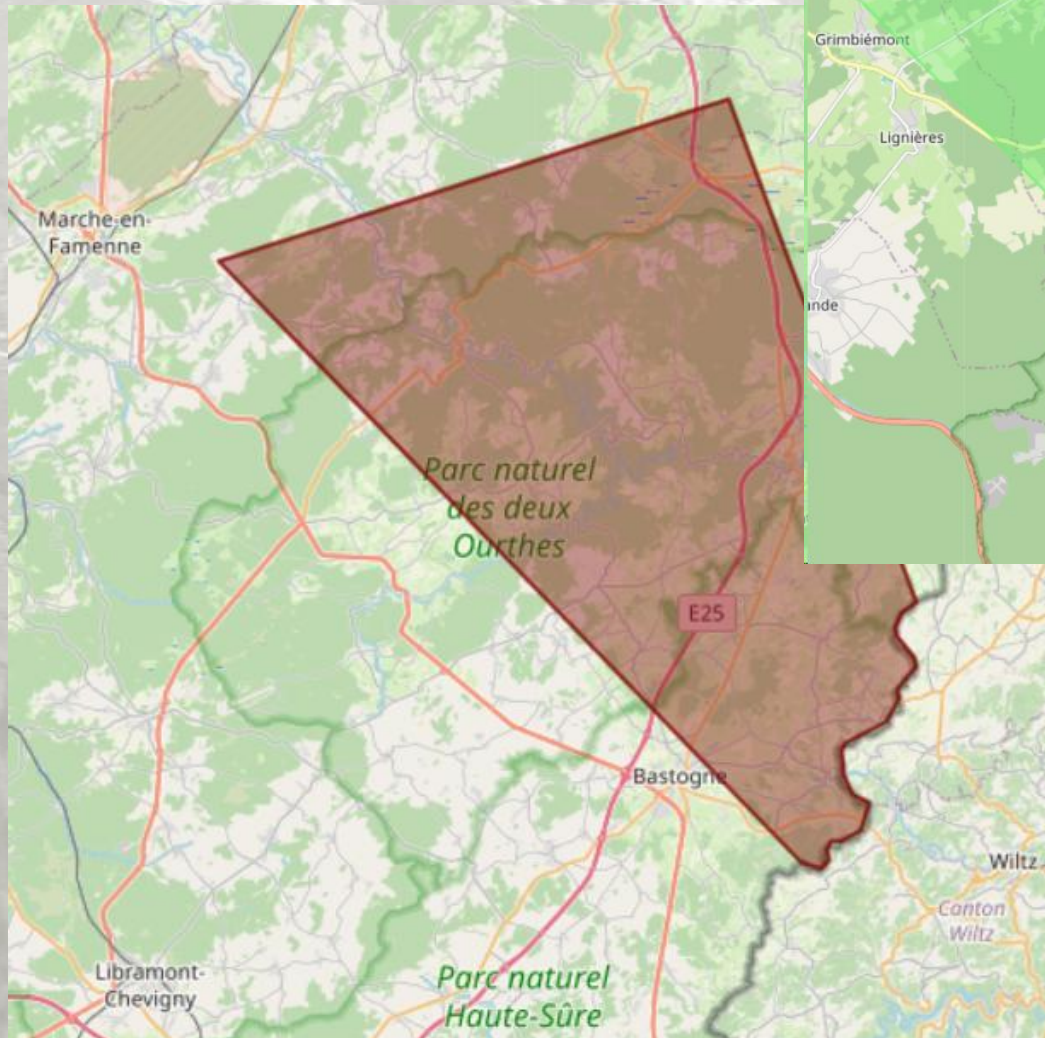
GA – Saint-Hubert

Beauraing & Rochefort take-offs are OUTSIDE!



GA – La-Roche

La roche take-off is inside!



GA – Saint-Hubert & La Roche

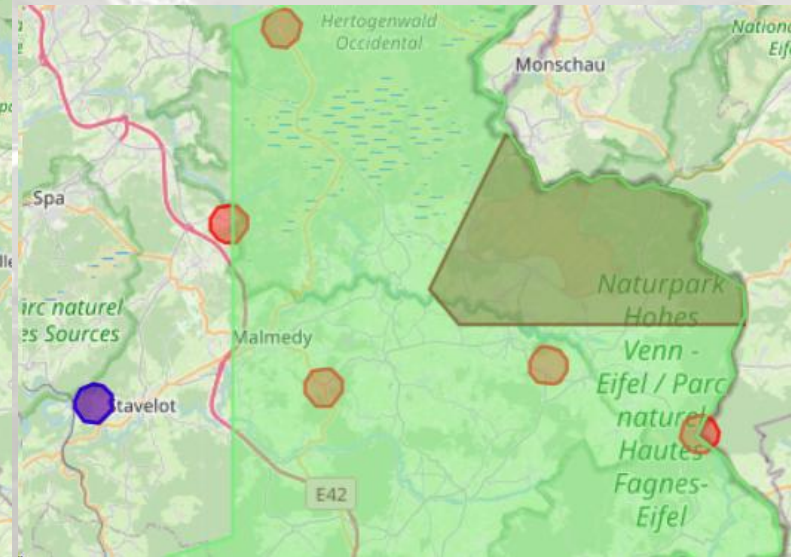
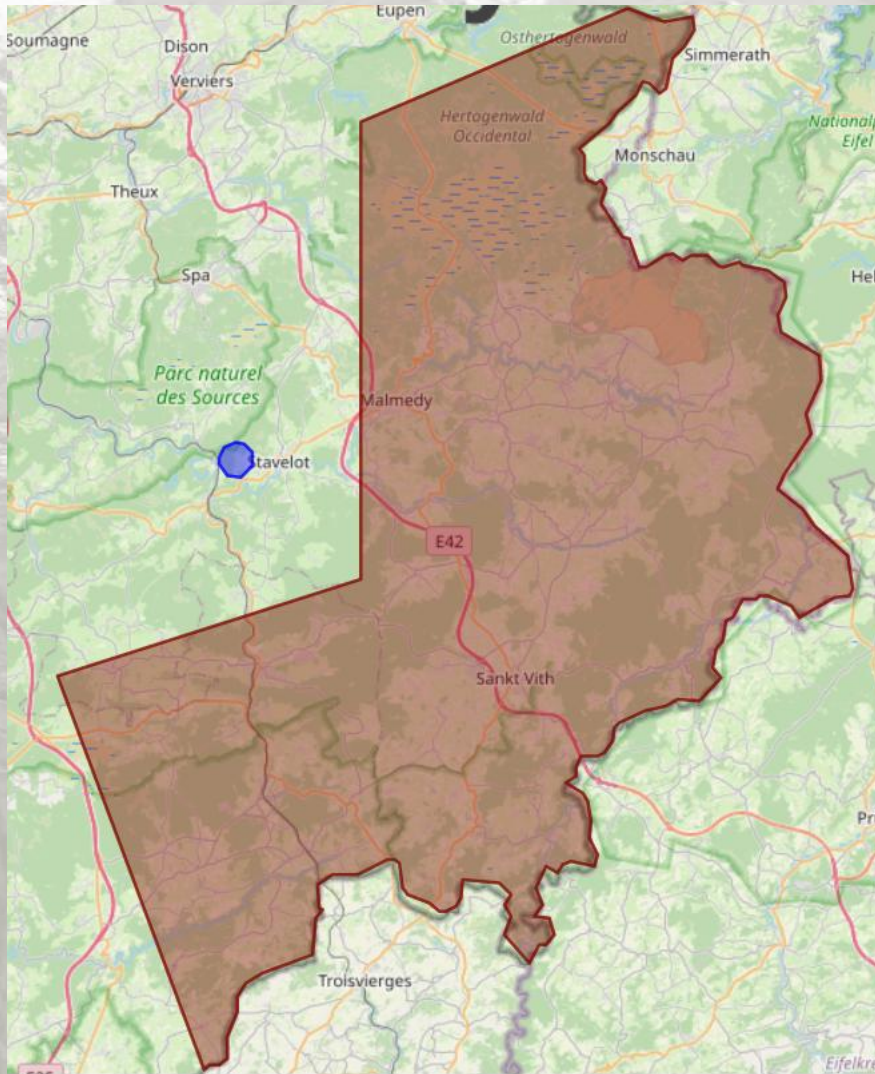
- Transponder no more requested in 2024
- Climb to **FL65 possible**
- Stay on EBSH frequency
- Check EBSH-Tower app notifications and messages
- Mil can de-activate the zone for special needs!
- Special restricted zones **keep the priority, probably with the exception of TSA26B and TSA25C**

GA – Malmedy

- From 4500ft^{QNH} to **FL65** (included)
- Stay on EBSH frequency
- Check EBSH-Tower app notifications and messages
- Special zones such as EBR04 **keep the priority**

GA – Malmedy

Coo take-off is OUTSIDE!



EBR04

GAA commitment!

- While flying across the GAA, the GAA-XC pilot must listen to EBSH radio frequency and have an eye on EBSH-Tower app notifications in case Mil takes the area back. (it happens!)
- EBSH canal is: 122.180 (see next slide!)
- Check EBSH-Tower app message confirmation (see below)
- One pilot CANNOT monitor EBSH radio for other pilots !
- You need a special AM monitoring radio (no need to be able to speak)
- Use Livetracking (Flymaster or XCTrack/Xcontest) for all flights

What does 122.180 means?

- In the past, the channel spacing/bandwidth was 25 KHz
- To add more channels, it was decided to reduce it to 8.33 KHz (25/3)
- What is displayed on the radio is a number. Let's call it a channel
- When the frequency in 8.33 KHz mode is the same as the frequency in 25 KHz, there is a convention to change the channel (displayed « frequency ») by adding 5 KHz to be able to differentiate a frequency in 25 KHz mode or in 8.33 KHz mode.
- 122.180 is the channel name of 122.175 MHz in 8.33 KHz mode.
- 122.180 MHz is wrong. It should be written CH 122.180

Center					
25,00 KHz	8,33 KHz	Rounded 5	Display/8,33KHz	start	End
122.150 KHz	122.150,00 KHz	122.150 KHz	CH 122.155	122.145,8 KHz	122.154,2 KHz
	122.158,33 KHz	122.160 KHz	CH 122.160	122.154,2 KHz	122.162,5 KHz
	122.166,67 KHz	122.170 KHz	CH 122.165	122.162,5 KHz	122.170,8 KHz
122.175 KHz	122.175,00 KHz	122.175 KHz	CH 122.180	122.170,8 KHz	122.179,2 KHz
	122.183,33 KHz	122.185 KHz	CH 122.185	122.179,2 KHz	122.187,5 KHz
	122.191,67 KHz	122.190 KHz	CH 122.190	122.187,5 KHz	122.195,8 KHz
122.200 KHz	122.200,00 KHz	122.200 KHz	CH 122.205	122.195,8 KHz	122.204,2 KHz
	122.208,33 KHz	122.210 KHz	CH 122.210	122.204,2 KHz	122.212,5 KHz
	122.216,67 KHz	122.215 KHz	CH 122.215	122.212,5 KHz	122.220,8 KHz

What does 122.180 means?

- 122.175 MHz means 122.175 MHz in 25 KHz mode, wide bandwidth
- CH 122.180 means 122.175 MHz in 8.33 KHz mode, narrow bandwidth

To listen to EBSH, depending on your radio, different situations may arise. It is very possible that, depending on your radio and the mode you are using, entering a given frequency will be converted into a different displayed frequency/Channel.

- setting your radio to 122.175 MHz will work in any case but you may be in 25 KHz mode and therefore hear more noise and other frequencies
- typing 122.180 in 8.33 KHz, 122.183 displayed, will NOT work
- typing 122.180 in 8.33 KHz, 122.175 displayed, will work

The ideal situation is to type 122.175, have 122.175 displayed and make sure you are in 8.33 KHz mode (example with CRT 4CF, in AM mode, type 122.175, click on the # to see AM8).

Subjects :

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 - LFA Golf

EBSH Tower

Web server for EBSH – Android APP for pilots
Easy LFA-G and GAA activation communication
tool

Update Golf Status Send Message Golf Status Log Message Log Members Contact

Current Date: 15/05/2021, 11:06:27 **Server side**

Name	Status	Add Timeslot	Transponder Mandatory?	FL	Start Hour	Start Minutes	End Hour	End Minutes
GA Malmedy	Not Active	Add	☐	95	12	0	16	00
			☐	95	17	0	23	0
GA La Roche	TMZ Only	Add	☒	65	11	0	11	50
			☐	95	13	0	23	59
GA St. Hubert	TMZ Only	Add	☒	65	10	0	11	50
			☐	95	13	0	23	59
LFA G1	Active	Add	☐	55	8	0	23	59
LFA G2 South	Not Active	Add						



EBSH Tower

Last Update: Tue May 18 10:17:55 2021

Gliding Zone	TMZ	FL	Open	Close
GA Malmedy	ACT	65	11:00	- 21:29
GA La Roche	TMZ	65	11:00	- 15:20
	ACT	65	17:10	- 21:29
GA St. Hubert	TMZ	65	11:00	- 13:30
	ACT	65	17:10	- 21:29
LFA G1				
LFA G2 South				

Messages

APP side

Gliding Zones Info PARABE-XC Live OGN Live Settings

EBSH Tower web

Send message to all GAA-XC pilots

Server side

[Update Golf Status](#)

[Send Message](#)

[Golf Status Log](#)

[Message Log](#)

[Members](#)

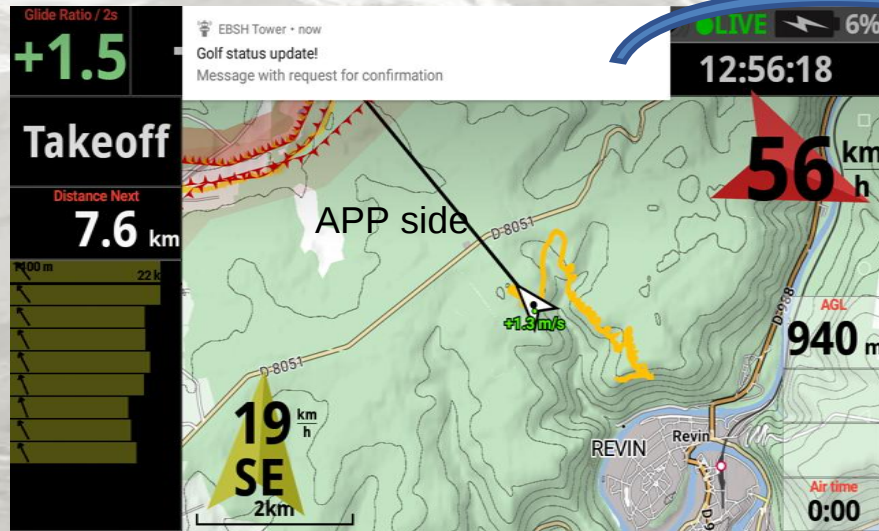
[Contact](#)

Send Message to all pilots with EBSH Tower APP

Send Message

☐ Request Confirmation

EBSH Tower app: notification while flying



Message Sent on 10/05/2021, 08:38:12

Message with request for confirmation

Server side

Message Reception status:

Pushtoken	Name	Displayed	Confirmed	Confirmation Location
[UIEHJLZXAJEG180ZDbCEQ]	MDebras	No Info	Not Confirmed	
[6afNW-F4Q84HEHnn9G-BZq]	Pieter Baele	No Info	Not Confirmed	
[4IUknGOI-N-hYhPXXFw3-y]	Lode prod	No Info	Not Confirmed	
[y4QA0wIMhAobQMq3q9YX53]	Bertrand Fontaine	OK 10/05/2021, 08:38:19	OK 10/05/2021, 08:38:30	@Alt: 258m,50.4227122,4.9592597
[FCiztPAZVwAkzjXug8vW]	Q	No Info	Not Confirmed	
[TgGdinFeDFN02XQoobZKEE]	New lode	No Info	Not Confirmed	

Close

EBSH Tower

Last Update: Mon May 10 08:33:56 2021

Gliding Zone	Active	El	Open	Close
GA Malmédy	Active	95	11:00	21:18
GA La Roche	Active	95	17:40	21:18
GA St. Hubert	Active	95	17:40	21:18
LFA G1	Not Active			
LFA G2 South	Not Active			
LFA G2 North	Not Active			
LFA G2 West	Not Active			
LFA G3	Not Active			
LFA G5 West	Not Active			
LFA G5 East	Not Active			

APP side

Messages

Mon May 10 08:38:12 2021

Message with request for confirmation

CONFIRM MESSAGE

Mon May 10 08:36:16 2021

Message without need for confirmation

Gliding Zones Info
 EBSH Tower Live
 OGN Live
 Settings

EBSH Tower Web

Messages log and stats

[Update Golf Status](#)
[Send Message](#)
[Golf Status Log](#)

[Message Log](#)
[Members](#)
[Contact](#)

Message Log

Date	Time	Message	#Sent	#Received	#Confirmed	Stats
10/05/2021,	08:38:12	Message with request for confirmation	6	1	1	Show stats
10/05/2021,	08:36:16	Message without need for confirmation	6	2	0	Show stats

Message Sent on 10/05/2021, 08:38:12					X
Message with request for confirmation					
Message Reception status:					
Push token	Name	Displayed	Confirmed	Confirmation Location	
[UIEHJLIZKAJEGf8OZDbcEQ]	MDebras	No Info	Not Confirmed		
[6afNW-F4QB4HEHnn8G-BZq]	Pieter Baele	No Info	Not Confirmed		
[4IUknGOL-N-hYhPXXFw3-y]	Lode prod	No Info	Not Confirmed		
[y4QA0wIMhAobQMq3q9YX53]	Bertrand Fontaine	OK 10/05/2021, 08:38:19	OK 10/05/2021, 08:38:30	Alt: 258m,50.4227122,4.9592597	
[FCiztPAZVEwAkzrjXug8vW]	Q	No Info	Not Confirmed		
[TgGdinFeDFN02XQoobZKEE]	New lode	No Info	Not Confirmed		
					Close

[Update Golf Status](#)
[Send Message](#)
[Golf Status Log](#)
[Message Log](#)
[Members](#)
[Contact](#)

Message Log

Date	Time	Message	#Sent	#Received	#Confirmed	Stats
06/05/2021,	20:19:12	This is an urgent message with confirmation	7	7	5	Show stats
06/05/2021,	20:18:55	Testmessage without confirmation. Should work on 20210506v2.	7	7	1	Show stats

Message Sent on 06/05/2021, 20:19:12					X
This is an urgent message with confirmation					
Message Reception status:					
Push token	Name	Displayed	Confirmed	Confirmation Location	
[TgGdinFeDFN02XQoobZKEE]	New lode	OK 06/05/2021, 20:41:16	OK 06/05/2021, 21:30:19	Alt: 138m,51.2155843,4.42752	
[FCiztPAZVEwAkzrjXug8vW]	Q	OK 06/05/2021, 20:43:18	OK 06/05/2021, 20:44:14	Alt: 286m,50.5011563,5.0050545	
[y4QA0wIMhAobQMq3q9YX53]	Bertrand Fontaine	OK 06/05/2021, 22:04:19	Not Confirmed		
[vnZQ35D7uInkv01W5u19IJ]	Berfon	OK 06/05/2021, 20:22:50	OK 06/05/2021, 20:25:43	Alt: 248m,50.422722,4.9592525	
[6afNW-F4QB4HEHnn8G-BZq]	Pieter Baele	OK 06/05/2021, 21:51:16	Not Confirmed		
[UIEHJLIZKAJEGf8OZDbcEQ]	MDebras	OK 06/05/2021, 23:11:26	OK 06/05/2021, 23:12:09	Alt: 233m,50.3469916,5.4770337	
[4IUknGOL-N-hYhPXXFw3-y]	Lode prod	OK 06/05/2021, 20:19:16	OK 06/05/2021, 20:19:35	Alt: 154m,51.2155852,4.4275253	
					Close

EBSH Tower APP: features

- Golf status update (+ notifications (*))
- **GAA zones update + notifications (*)**
- **Messages from EBSH (with or without confirmation request) (*)**
- Xcontest Live page
- OGN Live page
- Settings

(*): bold for XC-GAA members only

EBSH Tower APP

Link to install the app:

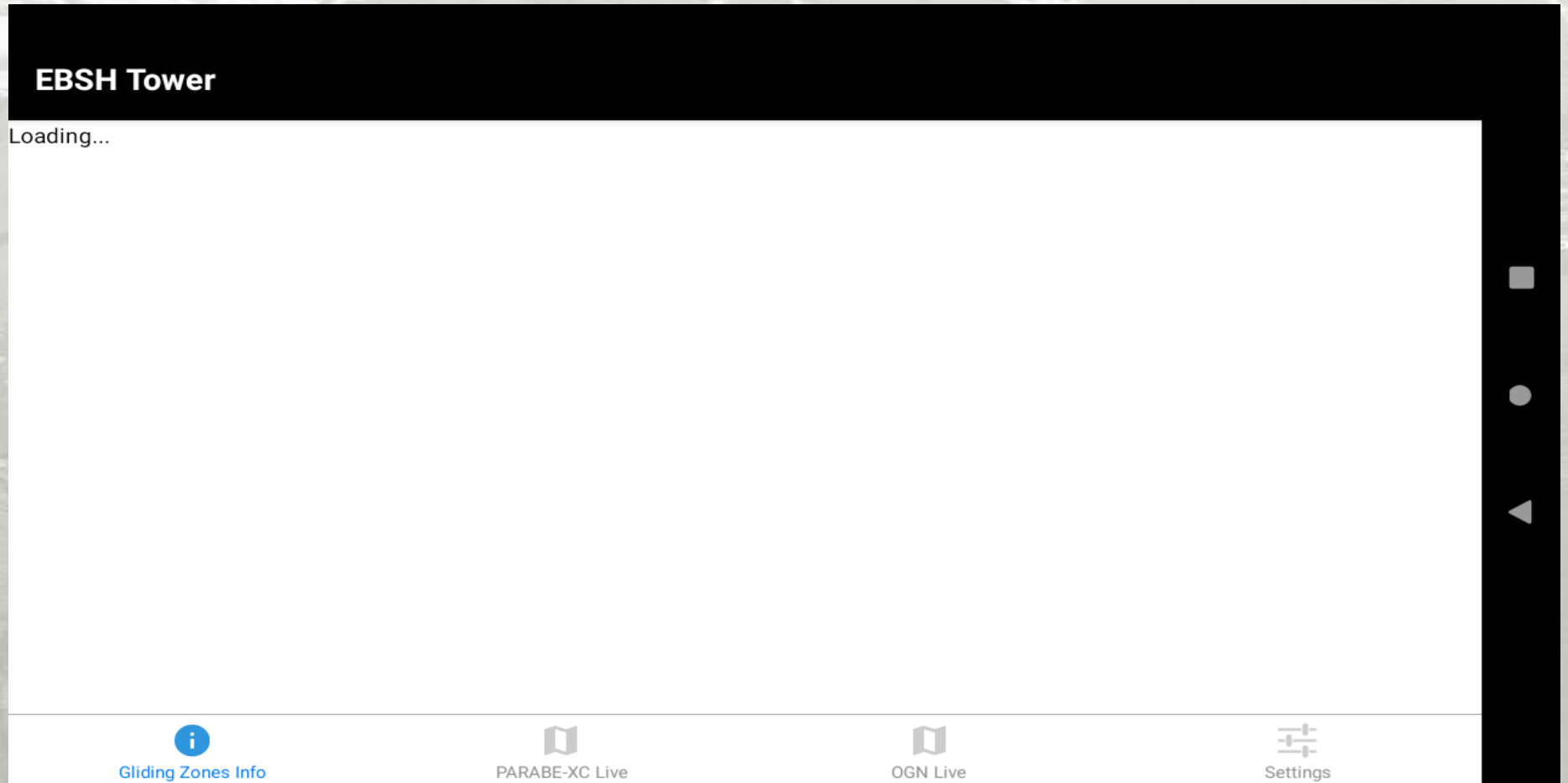
<https://drive.google.com/file/d/17gcmvKVxskBwJuqNJ8jmMoYvb7sHAV8H/view?usp=sharing>

To get updates, close and open the app twice while connected to internet.

GOOGLE SERVICES REQUIRED
ANDROID 8.1 and above



Open the app...



→ Go to settings...

First step: register

Settings & Info

Disclaimer: This app is provided to you for convenience but is provided as is with no guarantee of any sort. The airspace information provided doesn't substitute for the obligation to perform your own pre-flight analysis, using the information provided by the relevant authority.

Version: 20210518v1

App Token: JB1F

This app has access!

Complete your full name below:

[REGISTER](#)

Receive push messages: ☐

 Gliding Zones Info

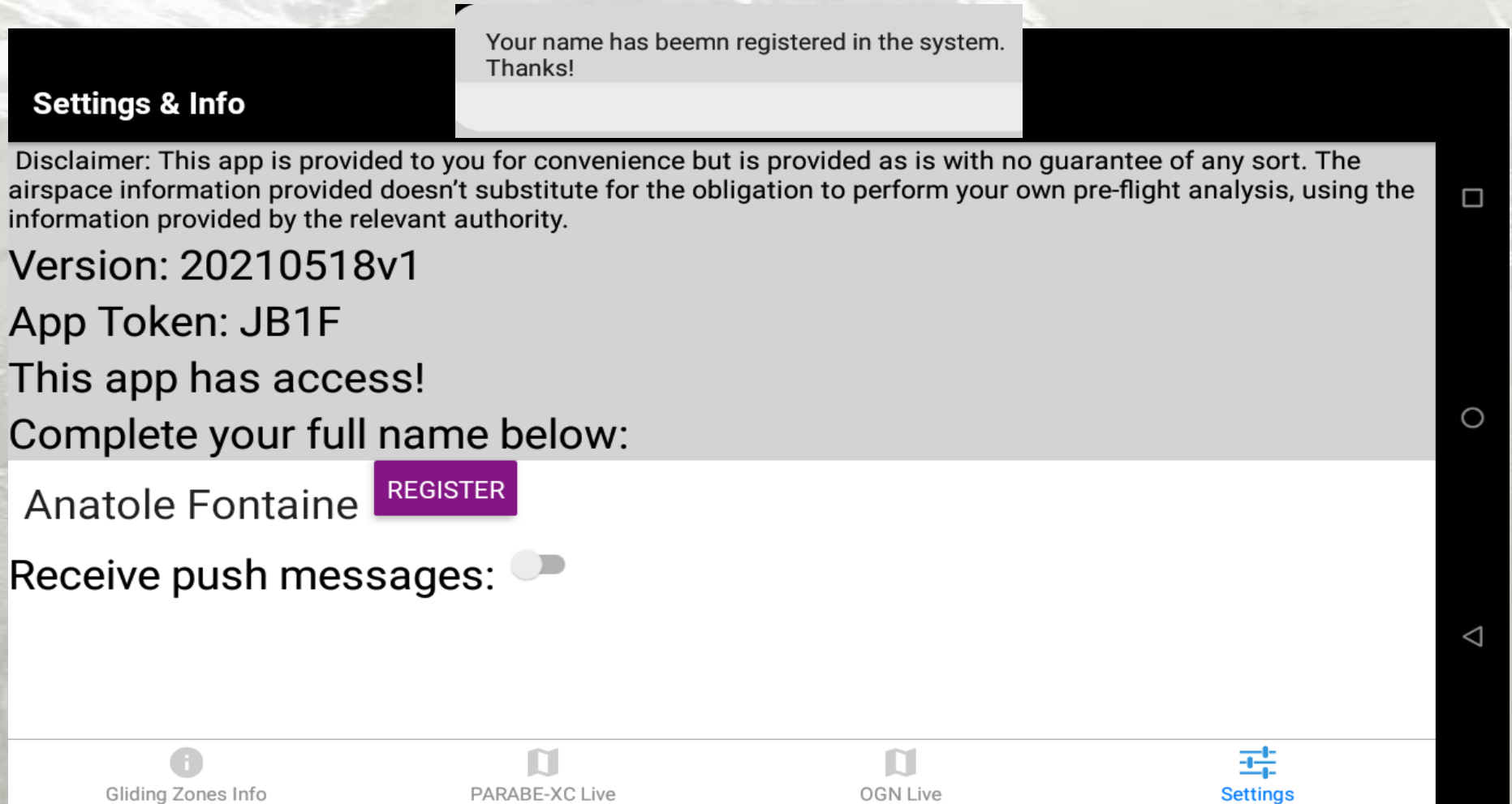
 PARABE-XC Live

 OGN Live

 [Settings](#)

→ Type your Full name... (Unidentifiable registration will be rejected).

First step: register



→ Ready to go...

LFA-Golf status information for all!

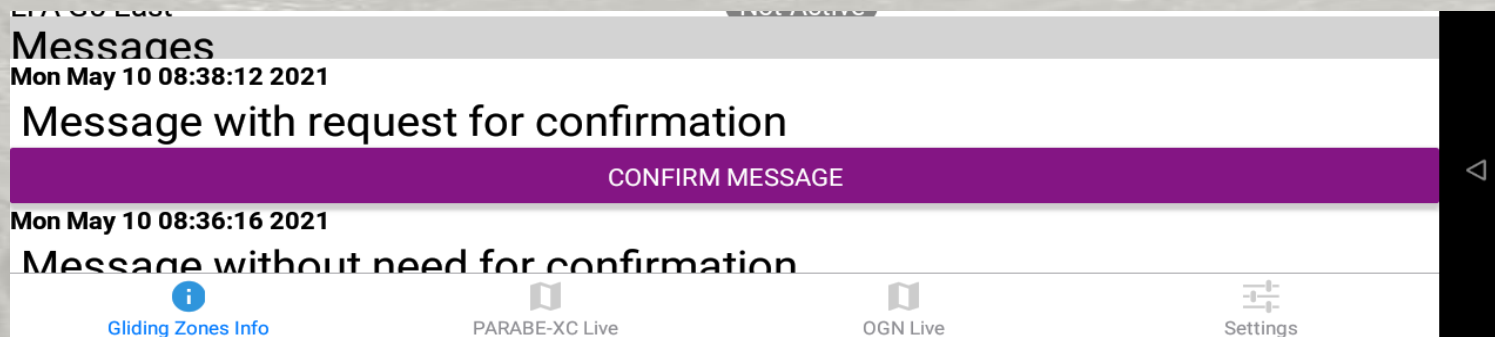
EBSH Tower		
Last Update: Tue May 18 21:20:30 2021		
Gliding Zone	TMZ	FL
LFA G1	ACT	55
LFA G2 South	ACT	75
LFA G2 North		Not Act
LFA G2 West		Not Act
LFA G5 West		Not Act
LFA G5 East		Not Act

The screenshot shows the EBSH Tower mobile application. At the top, there's a black header bar with "EBSH Tower" in white. Below it, a grey status bar says "Last Update: No update available today." The main area has a light grey header with "Gliding Zone" and three buttons: "TMZ", "FL", and "Open". A large white map area follows. At the bottom, there's a navigation bar with four items: "Gliding Zones Info" (with an info icon), "PARABE-XC Live" (with a book icon), "OGN Live" (with a book icon), and "Settings" (with a settings icon). On the right side, there's a vertical black bar with three white icons: a square, a circle, and a triangle.

→ Easy to identify when LFA-Golf zones are activated

XC-GAA members access

- Notifications for LFA-G status update (*)
- Display and notifications (*) for GAA zones
- Messages sent by EBSH to all pilots (*)
 - With confirmation
 - Without confirmation



(*) with push messages « ON »

Receive push messages: ☒

LFA-Golf status and GAA zones for XC-GAA members

EBSH Tower

Last Update: Tue May 18 10:17:55 2021

Gliding Zone	TMZ	FL	Open	Close
GA Malmedy	ACT	65	11:00	- 21:29
GA La Roche	TMZ	65	11:00	- 15:20
		65	17:10	- 21:29
GA St. Hubert	TMZ	65	11:00	- 13:30
		65	17:10	- 21:29
LFA G1		Not Act		
LFA G2 South		Not Act		

Messages

[Gliding Zones Info](#) [PARABE-XC Live](#) [OGN Live](#) [Settings](#)

EBSH Tower

Last Update: Tue May 18 21:20:30 2021

Gliding Zone	TMZ	FL	Open	Close
GA Malmedy	ACT	65	11:00	- 21:29
GA La Roche	TMZ	65	11:00	- 15:20
	ACT	65	17:10	- 21:29
GA St. Hubert	TMZ	65	11:00	- 13:30
	ACT	65	17:10	- 21:29
LFA G1	ACT	55	08:00	- 23:59
LFA G2 South	ACT	55	10:00	- 23:59

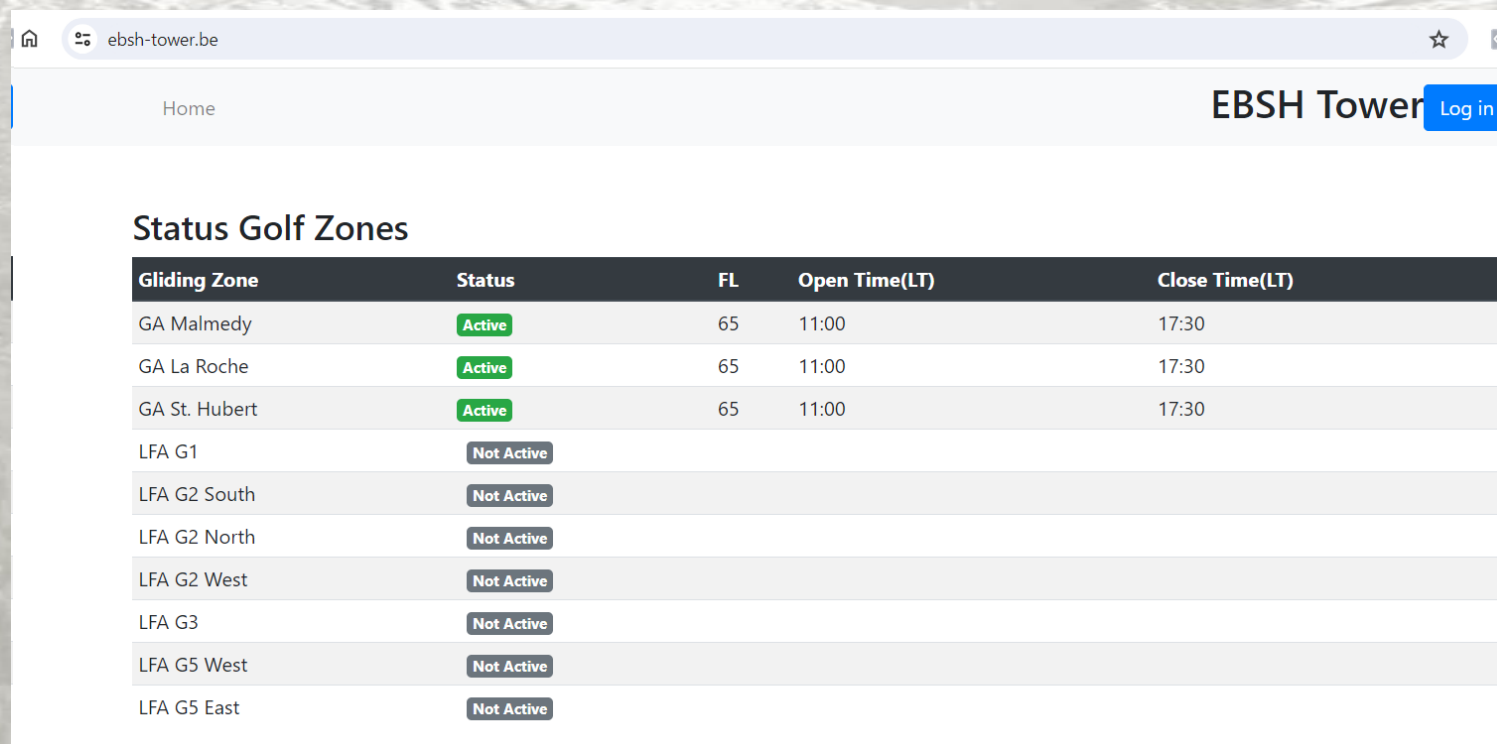
Messages

[Gliding Zones Info](#) [PARABE-XC Live](#) [OGN Live](#) [Settings](#)

→ GAA zones and LFA-G status WHEN EBSH set it up!

www.ebsh.tower.be → IOS

- Status of the zones can be seen with any browser, including on IOS...

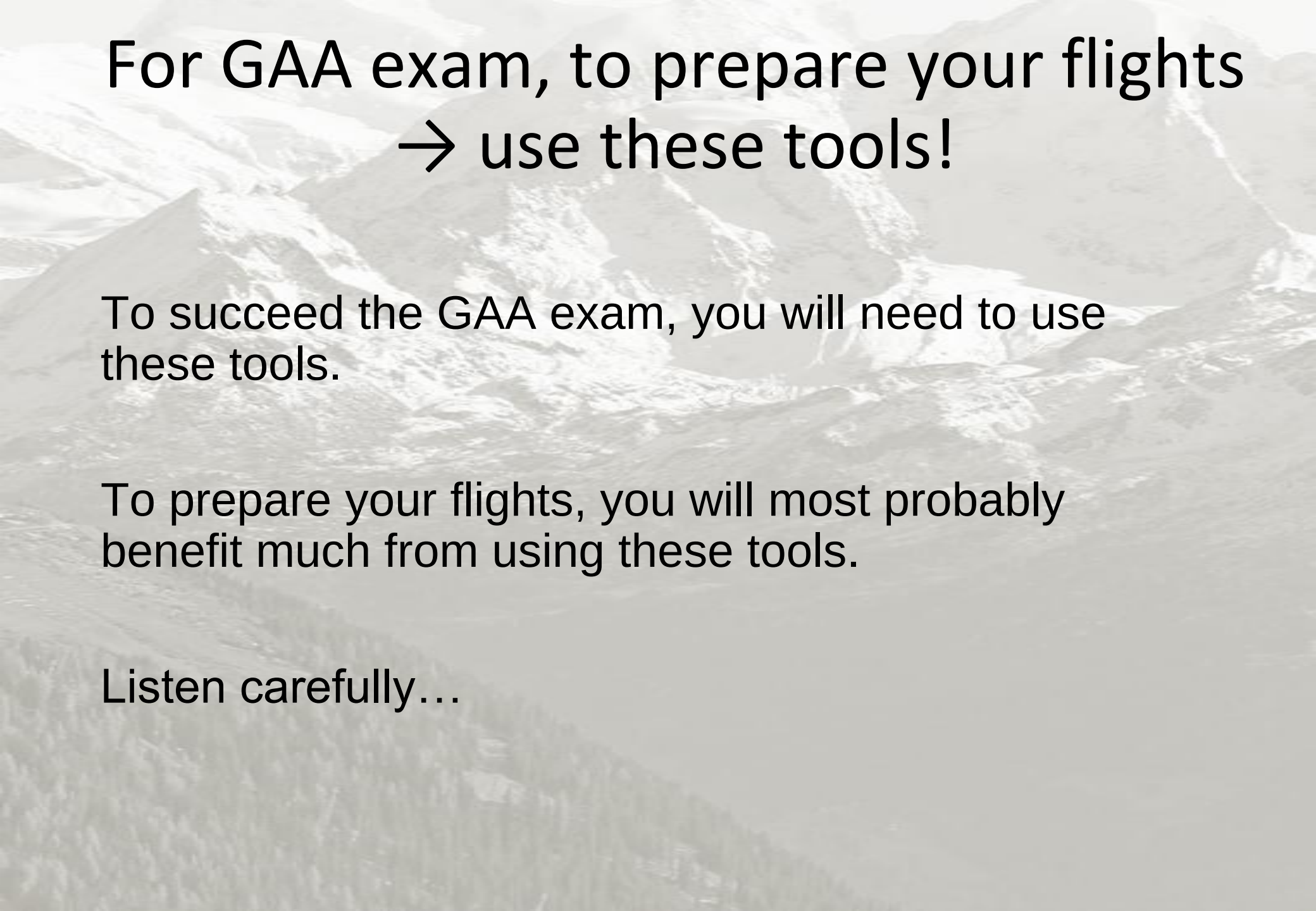


The screenshot shows a mobile browser interface for the website 'ebsh-tower.be'. The page has a 'Home' link and an 'EBSH Tower' header with a 'Log in' button. The main content is titled 'Status Golf Zones' and displays a table with the following data:

Gliding Zone	Status	FL	Open Time(LT)	Close Time(LT)
GA Malmedy	Active	65	11:00	17:30
GA La Roche	Active	65	11:00	17:30
GA St. Hubert	Active	65	11:00	17:30
LFA G1	Not Active			
LFA G2 South	Not Active			
LFA G2 North	Not Active			
LFA G2 West	Not Active			
LFA G3	Not Active			
LFA G5 West	Not Active			
LFA G5 East	Not Active			

Subjects :

- Specific GAA Knowledge
 - How GAA works
 - Radio and EBSH-Tower app monitoring
 - **GAA commitment**
- EBSH-Tower app
 - How, why, when
 - Messages for confirmation
- Tools for GAA and flights in general
 - [Airspace.xcontest.org](https://www.airspace.xcontest.org)
 - Friendly Air Tool
 - Skeyes – AIP – Notams
 - BPC Facebook group briefings
 - Livetracking: XCTrack/Xcontest and Flymaster
- XC reminder
 - Altimetry
 - Airspaces
 - LFA Golf



For GAA exam, to prepare your flights
→ use these tools!

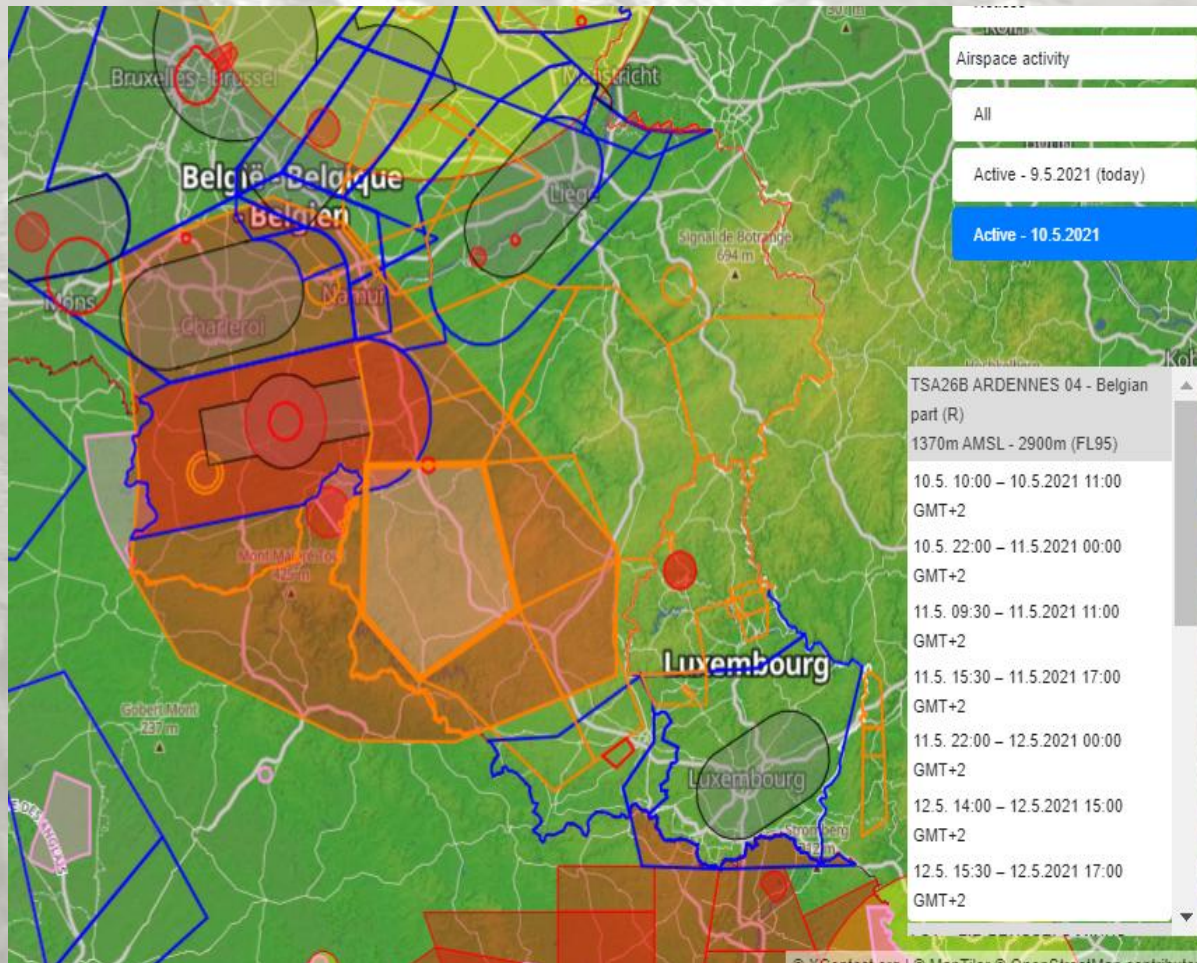
To succeed the GAA exam, you will need to use these tools.

To prepare your flights, you will most probably benefit much from using these tools.

Listen carefully...

Airspace.xcontest.org

Airspace according to AIP & notams



- Airspace in real time!
- Source for Friendly Air Tool & XCTrack
- Easy reading of airspaces schedule

Airspace.xcontest.org speaks rather fluently Notam

TSA26B

10.5. 10:00 -
12.5.2021 17:00
GMT+2

10 0800-0900 2000-2200 | 11 0730-0900 1330-1500 2000-2200 | 12 1200-1300 1330-1500

M2519/21

M2519/21

M2519/21 NOTAM

Q) EBBU/QRACA/IV/NBO/W /045/095/5010N0455E039

A) EBBU

B) 2105100000

C) 2105121500

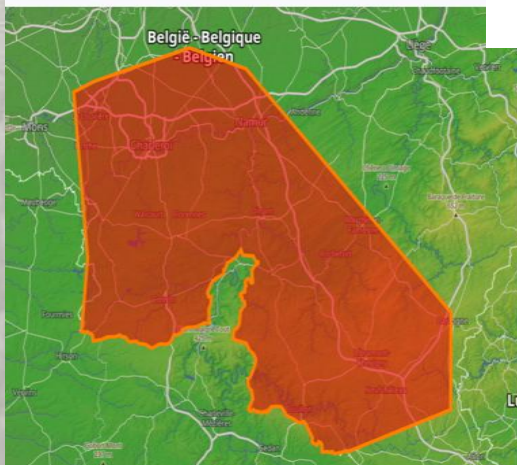
D) 10 0800-0900 2000-2200, 11 0730-0900 1330-1500 2000-2200, 12 1200-1300 1330-1500

E) EBTSA26B ARDENNES 04 ACT. TSA26B IS PERMEABLE DURING ITS ACT FOR TRAFFIC IN AND OUT OF EBFS AND FOR ACFT IN EMERGENCY.

F) 4500FT AMSL

G) FL095

Countries / Belgium, Luxembourg / Airspace 2020



Upper limit

Lower limit

Categories

Airspace type

Line color

Fill color

Expert email

ALUP link name

Activation times

Foreign airspace ISO

Description

Enable editor

FL = 9500

AMSL = 4500

☒ Free flying ☐ Powered flying

Restricted ☐ Glider areas ☐ Warning only ☐ Obstacle ☐ Alert

Solid ☐ rgb(255,128,0)

Default

TSA26B

Add description

Airspace "TSA26B ARDENNES 04 - Belgian part" activations

Start time	End time
10.5. 10:00	10.5.2021 11:00 GMT+2
10.5. 22:00	11.5.2021 00:00 GMT+2
11.5. 09:30	11.5.2021 11:00 GMT+2
11.5. 15:30	11.5.2021 17:00 GMT+2
11.5. 22:00	12.5.2021 00:00 GMT+2
12.5. 14:00	12.5.2021 15:00 GMT+2
12.5. 15:30	12.5.2021 17:00 GMT+2

Airspace.xcontest.org

Week-end – LFA-G parsing



Liga van Vlaamse Zweefvliegclubs



Wat is zweefvliegen? ▾

Secretariaat ▾

DTO

Wedstrijden ▾

Ligablad

Luchtruim ▾

Techniek

LFA Golf Status

Status on Sunday 09 May 2021

The lowest QNH today is: 999hPa

Low Flying Area G1 is ACTIVE up to FL55 excluded (=1396 meter AMSL) from 1 local time.

Low Flying Area G2 North is ACTIVE up to FL75 excluded (=2006 meter AMSL) from 1200 local time.

Low Flying Area G2 West is ACTIVE up to FL75 excluded (=2006 meter AMSL) from 1200 local time.

Low Flying Area G2 South is ACTIVE

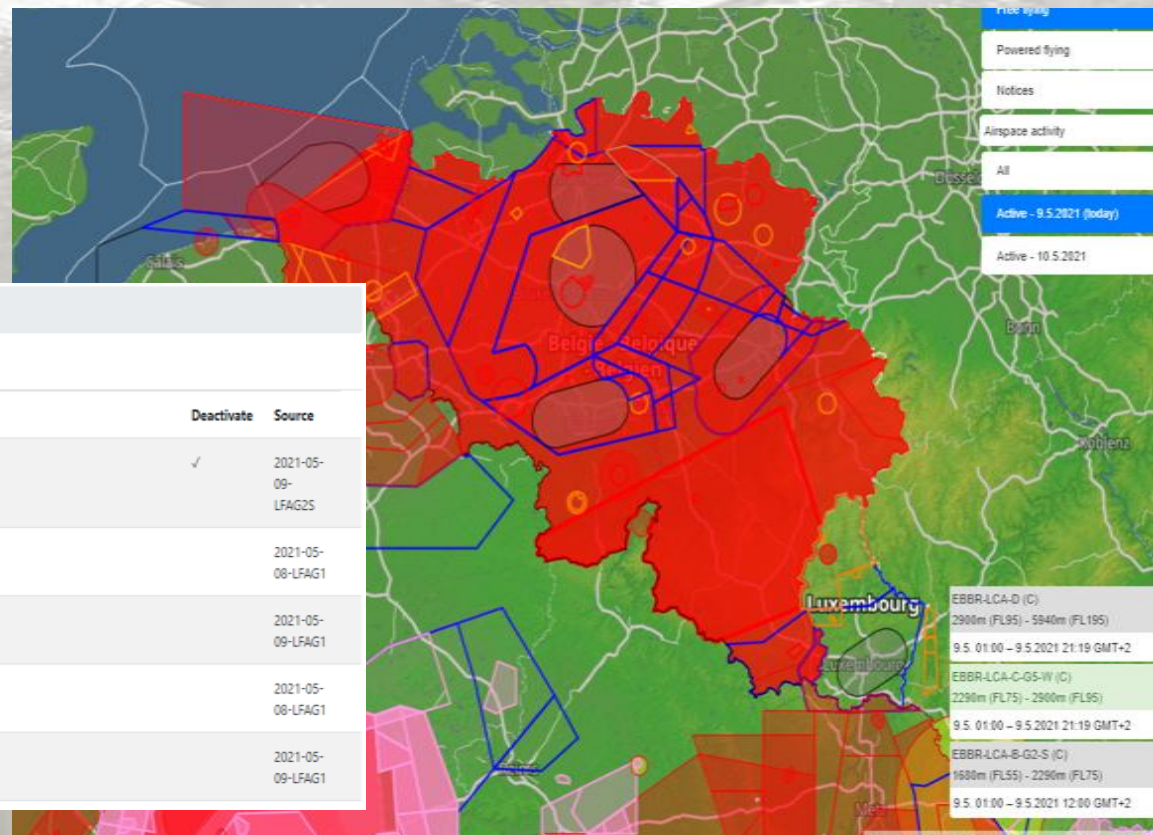
Low Flying Area GSW is NOT ACTIVE

Low Flying Area GSE is NOT ACTIVE

Countries / Belgium, Luxembourg / AUPs

Automatic Overrides Operations Validity Processed NOTAMS

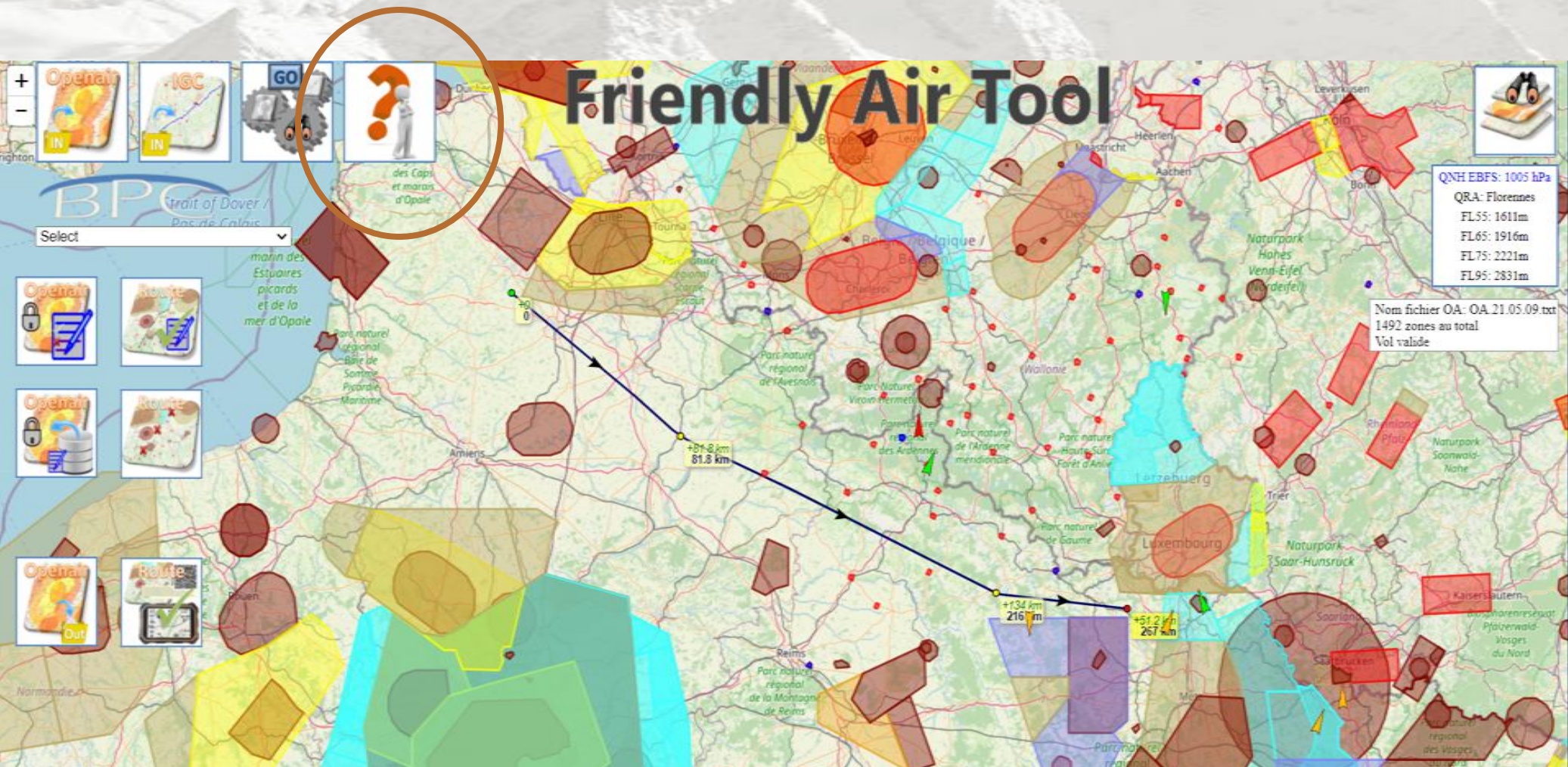
AUP link	Validity	Time spec	Deactivate	Source
EBBR-CTA-S3	9.5. 12:00 - 9.5.2021 21:19 GMT+2		✓	2021-05-09-LFAG25
EBBR-LCA-A-C	8.5. 01:00 - 8.5.2021 21:18 GMT+2			2021-05-08-LFAG1
EBBR-LCA-A-C	9.5. 01:00 - 9.5.2021 21:19 GMT+2			2021-05-09-LFAG1
EBBR-LCA-A-E	8.5. 01:00 - 8.5.2021 21:18 GMT+2			2021-05-08-LFAG1
EBBR-LCA-A-E	9.5. 01:00 - 9.5.2021 21:19 GMT+2			2021-05-09-LFAG1



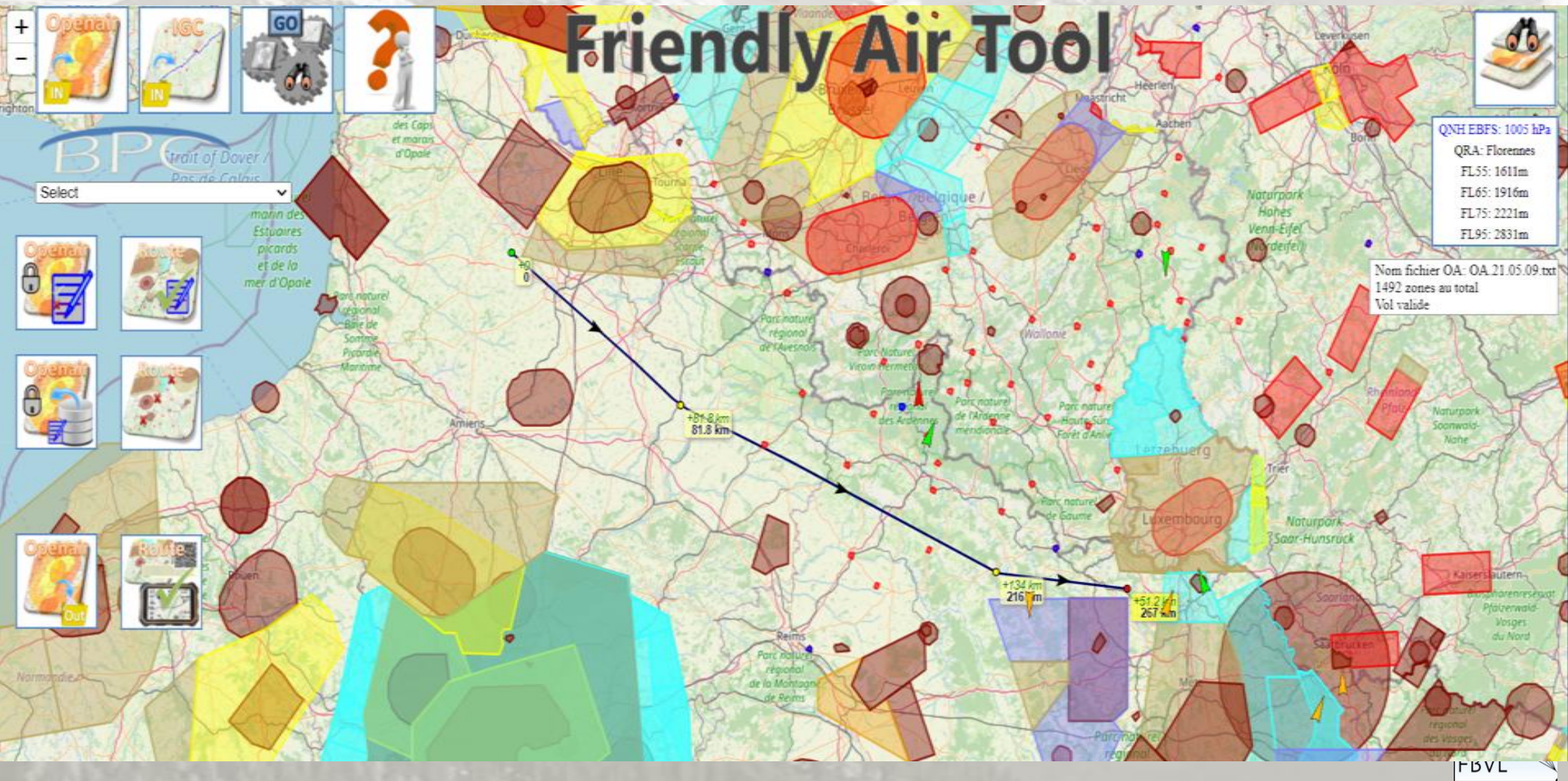
Warning

- Automatic Notam parsing may always contain errors. If you find an error, please contact Bertrand (bertrand@lesfontaines.be) to get it resolved.
- GAA zones are available only for specific pilots. GAA zones are not displayed. If displayed, they will probably be considered as “restricted”.

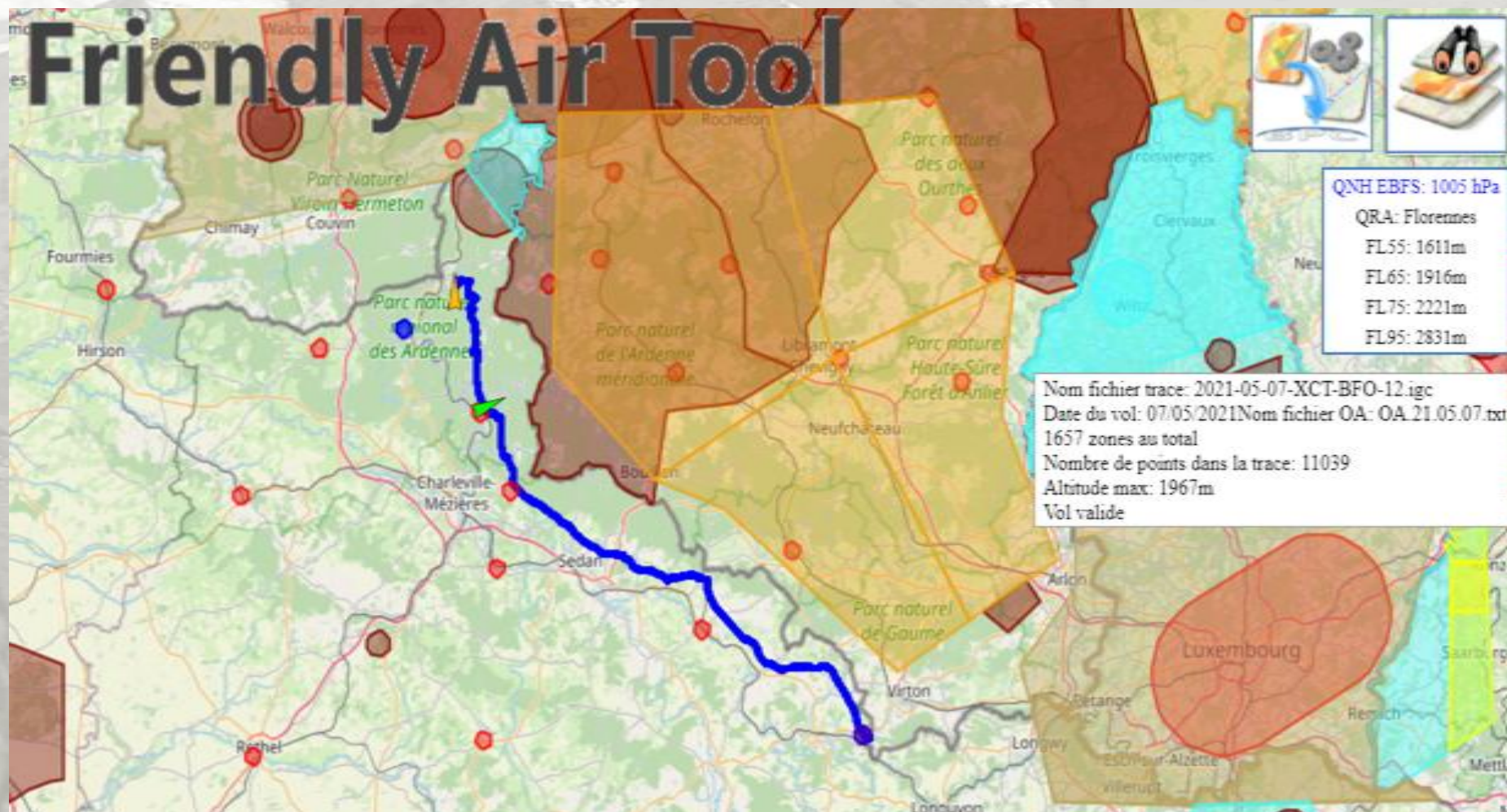
The « FAT » tool : how to use it?



The « FAT » tool : prepare the flight



The « FAT » tool : check the flight



for GAA exam !

The screenshot shows the 'Friendly Air Tool' interface. The main map displays various flight zones in different colors (yellow, orange, red, blue, green). A blue arrow points from the top right towards the map. Five numbered callouts highlight specific features:

- 1**: A dropdown menu labeled 'Select'.
- 2**: A circular icon with a 'GO' button and a pair of glasses.
- 3**: A circular icon with a pair of glasses and a book.
- 4**: A circular icon with a book and a pair of glasses.
- 5**: A circular icon with a book and a pair of glasses.

A detailed inset of the settings menu is shown on the right, listing various options:

- ☐ OSM Topo
- ☒ OpenMapStreet
- ☒ Infos
- ☒ Track
- ☒ <2500 ft
- ☒ <3500 ft
- ☒ <4500 ft
- ☒ Flags
- ☒ BPC waypoints
- ☒ Crossed zones
- ☐ 4500 ft AMSL < FL55
- ☐ FL55 < FL75
- ☐ > FL75
- ☒ Weather station

Below the settings menu, a box displays the following information:

QNH EBFS: 1005 hPa
FL55: 1611m
FL65: 1916m
FL75: 2221m
FL95: 2831m

At the bottom right, a box displays the following information:

Nom fichier OA: OA.21.05.09.txt
1492 zones au total
Vol valide

6

- 1: select airspace file from the list (or open an Openair file (« IN »))
- 2: « Go » to display the airspace
- 3: select the tranches you want to display (only below 4500 ft by default)
- 4: check EBFS QNH for FL conversion
- 5: Use the « Route » tool to calculate the distance between 2 points.
- 6: Deactivate/activate a given zone for multi-layers zones

Skeyes: AIP, SUP – AIP, Notams

BELGIUM & LUXEMBOURG
Aeronautical Information
Publication
See cover page for details.

PDF Help Feedback

AIP | AMDT | SUPs | AICs | Search

Effective 15 JUL 2021

- Part 1 GENERAL (GEN)
 - GEN 0 INTRODUCTION
 - GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS
 - GEN 2 TABLES AND CODES
 - GEN 3 SERVICES
 - GEN 4 CHARGES FOR AERODROMES/HELIPORTS
- Part 2 EN-ROUTE (ENR)
 - ENR 0 INTRODUCTION
 - ENR 1 GENERAL RULES AND PROCEDURES
 - ENR 2 AIR TRAFFIC SERVICES AIRSPACE
 - ENR 3 ATS ROUTES
 - ENR 4 RADIO NAVIGATION AIDS / SYSTEMS
 - ENR 5 NAVIGATION WARNINGS
 - ENR 6 EN-ROUTE CHARTS
- Part 3 AERODROMES (AD)
 - AD 0 INTRODUCTION
 - AD 1 AERODROMES/HELIPORTS - INTRODUCTION
 - AD 2 PUBLIC AERODROMES
 - AD 2 PRIVATE AERODROMES
 - AD 2 ULM AERODROMES
 - AD 2 PERSONAL AERODROMES
 - AD 3 MILITARY HELIPORTS
 - AD 3 HOSPITAL HELIPORTS
 - AD 3 PRIVATE HELIPORTS
 - AD 3 PERSONAL HELIPORTS

eAIP
BELGIUM & LUXEMBOURG

Consult NOTAM for latest information

AIM Belgium

Information on this eAIP Package

AMDT 007/2021

Effective date: 15 JUL 2021
Publication date: 01 JUL 2021

PTB Daily Warnings Sunrise/Sunset ATIS/VOLMET Obstacles NOTAM Summary LOGIN

The Daily Warnings only contain NOTAM on navigational warnings and can never be used as single source for pre-flight briefing. Information on subjects such as activation of ATS airspace or aerodromes is not included. In order to receive full pre-flight information, an appropriate PTB must be made for each flight using the PTB tools provided.

5/8/2021 6/8/2021

Daily warnings PTB text

Daily warnings PTB chart (PDF)

Interactive daily warnings chart

Contact:
AIM Belgium
Control Tower
Tervuursesteeweg 303
1820 Steenokkerzeel
BELGIUM
AFIS: EBVAVOYX
Email: aip.production@skeyes.be
URL: <https://ops.skeyes.be>

AIP Supplement Belgium and Luxembourg



GLIDER AREAS ARDENNES 2024

SUP
007/2024

Effective from
15 MAR 2024
to 15 OCT 2024
Published on
08 FEB 2024

Get used to find info!

TIP: Google search:
« Skeyes + keywords »

Example: « Skeyes Florennes
TMA » to find Florennes TMA
details in AIP



BPC Facebook Group: communication channel to share info about airspace

Join the Facebook BPC group if
you are not yet a member
Useful info!



Marc Delongie

Admin · 7 mai, 10:36 · 🌐

...

Briefing for today 7 May: sorry, a bit late...

A little reminder: as a rule of thumb, stay below 4500FT (1371m) AMSL during weekdays.

- TSA 26A and TSA 26B active today. (is above 4500ft but this usually says that there is military activity - see bullet point below)
- And with the above, EBD 26 activated in the same window. (this is a danger zone and we are allowed to fly in, but it is possible that you come across an F16)
- EBR04 Elsenborn active for the rest of the week (and we automatically activate the adjacent EDR117 zone in Germany) (this is a zone where it is forbidden to fly in)

.

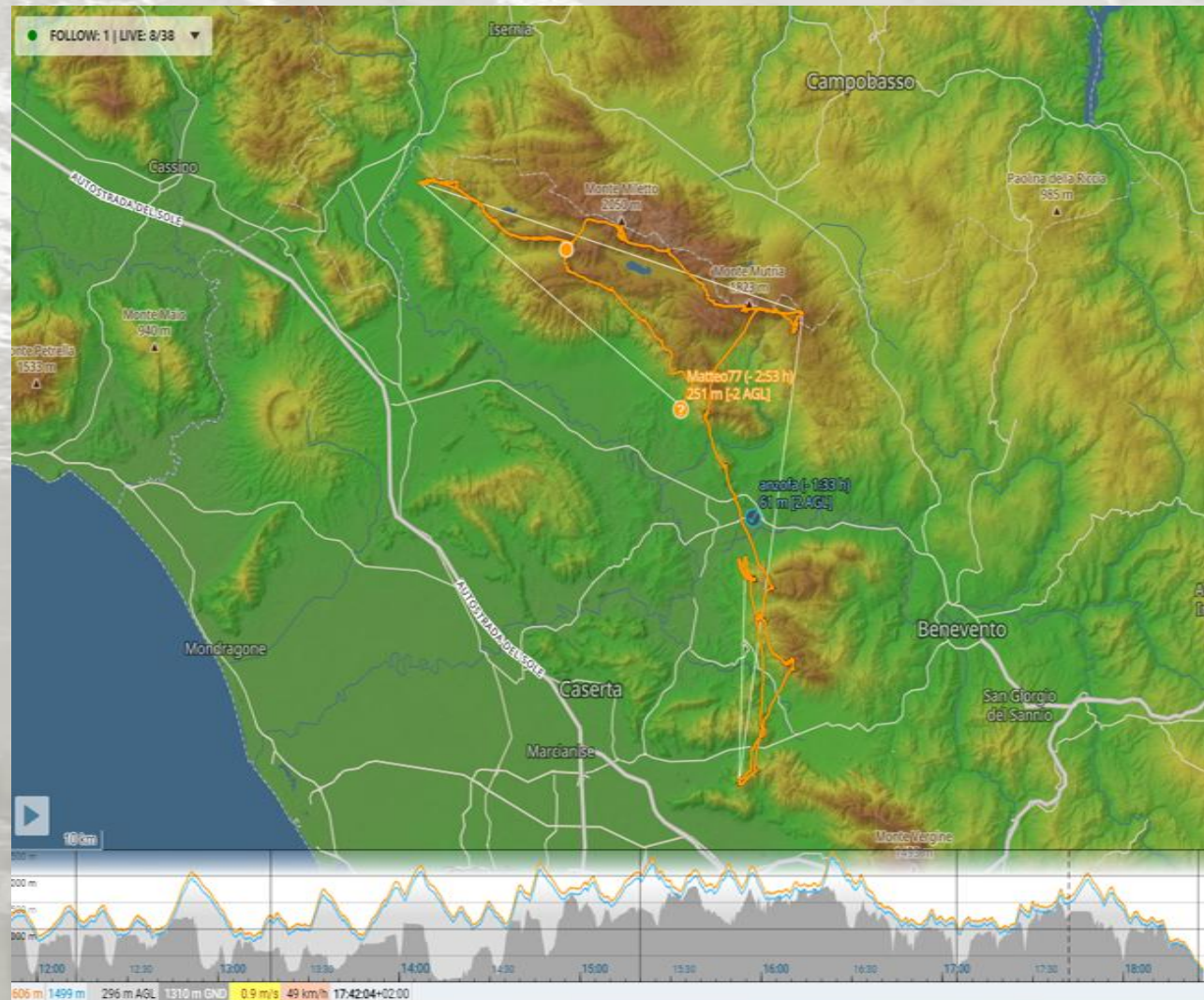
Validated airspace files can be found:

- *in the FAT tool*
- *on the FAT Google drive*
- *on airspace.xcontest.org*
- *in the XCTrack application (airspace visible with activation windows)*

Visualize the airspace and prepare your flight on the same FAT tool.

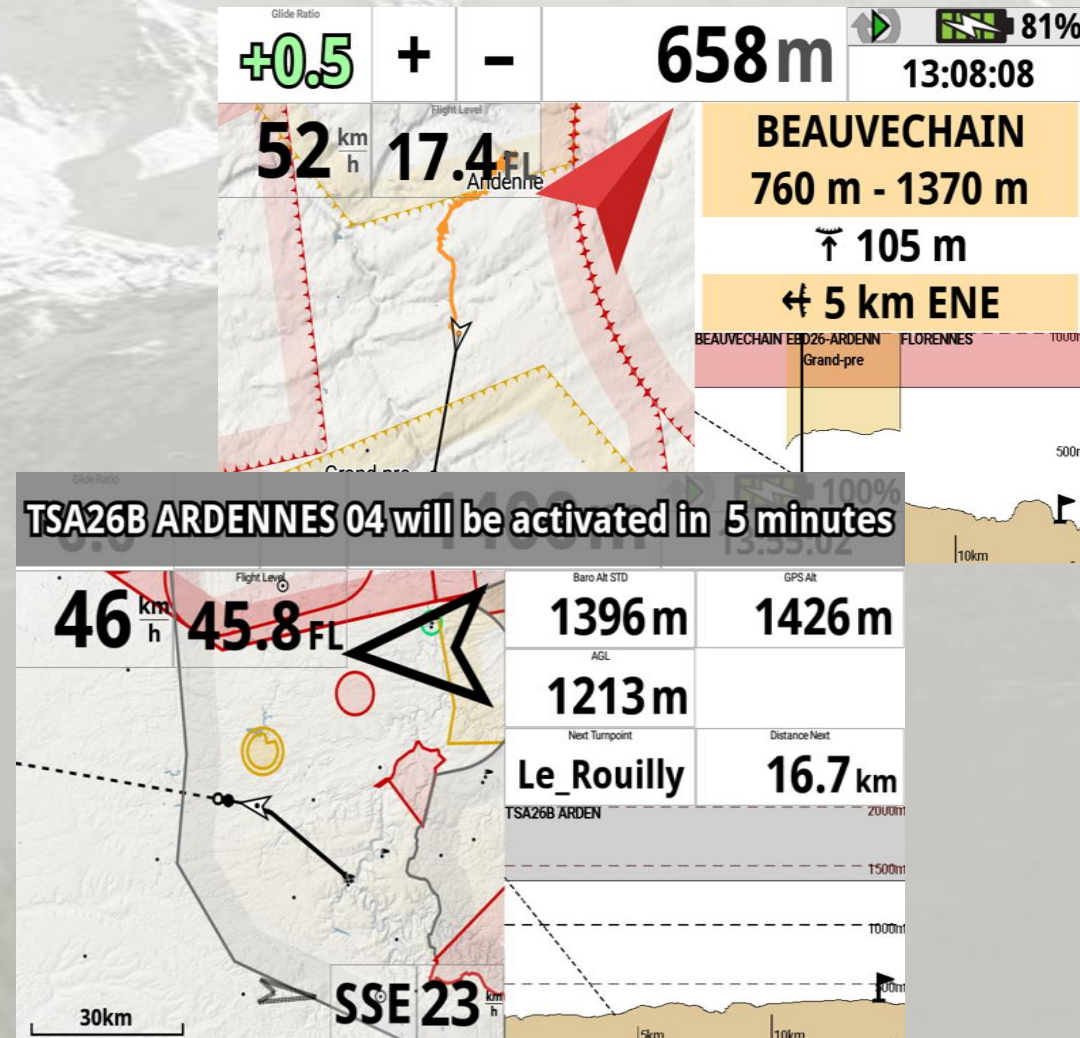
Livetracking: XCTrack/Xcontest - Flymaster

- *XCTrack = Free Android App with Livetracking*
- *Anyone can be seen WW*
- *Lead by example*
- *More security*
- *Strong incentive to follow the rules*
- *Allows EBSH tower to monitor (para)gliders in GAA zones*



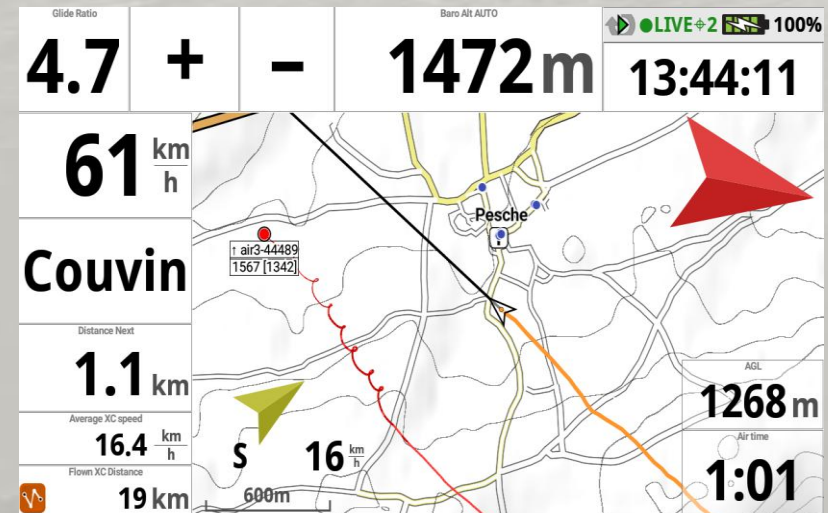
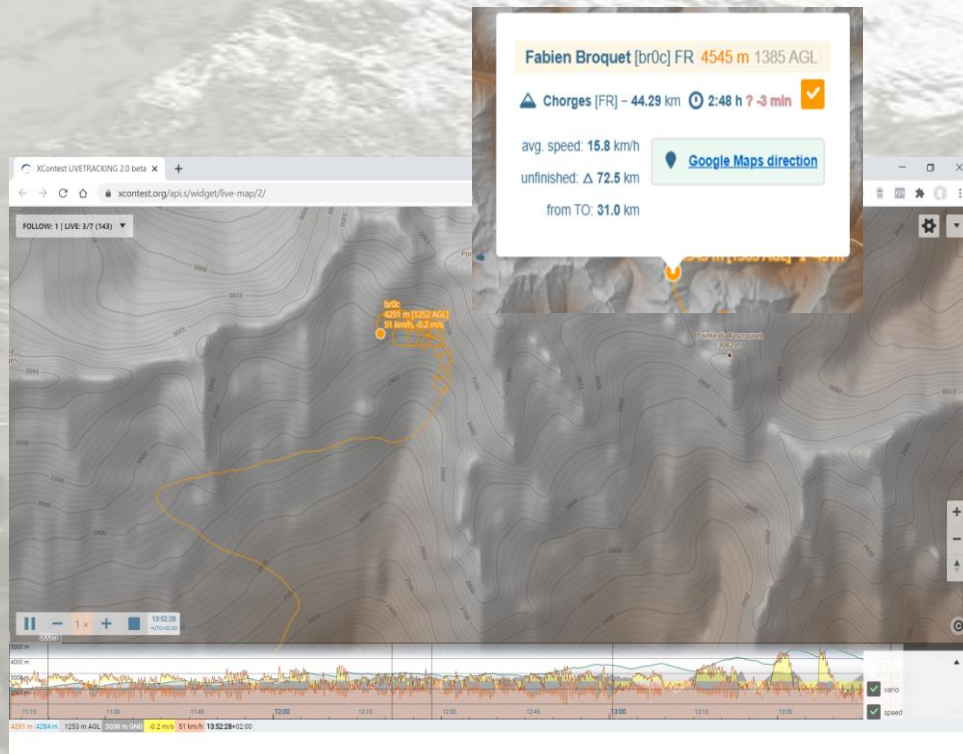
XCTrack (Pro): Flight instrument with advanced Airspace features

- *XCTrack = Free Android App with advanced **airspace features***
- *Direct data from **airspace.xcontest.org***
- *2D and **vertical** views*
- *Airspace Proximity widget*
- ***Activation windows***
- *Automatic update, even during the flight*



XCTrack (Pro): Livetracking

Livetracking on Live.xcontest.org and on other XCTrack Live devices



Livetracking & GAA

- Flymaster and/or XCTrack/Xcontest: 2 main platforms
- Already using Livetracking to get GAA-XC certificate.

Why?

- > Pilots using Livetracking are pilots that are following the rules (the opposite is not true /!\)
- Use Livetracking for GAA flights and for the other flights
- This is a GAA Charter commitment

Subjects :

- Specific GAA Knowledge
 - How GAA works
 - Radio and EBSH-Tower app monitoring
 - **GAA commitment**
- EBSH-Tower app
 - How, why, when
 - Messages for confirmation
- Tools for GAA and flights in general
 - Airspace.xcontest.org
 - Friendly Air Tool
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 - Livetracking: XCTrack/Xcontest and Flymaster
- XC reminder
 - Altimetry
 - Airspaces
 - LFA Golf

XC Reminder – Altimetry: 3 different altitudes

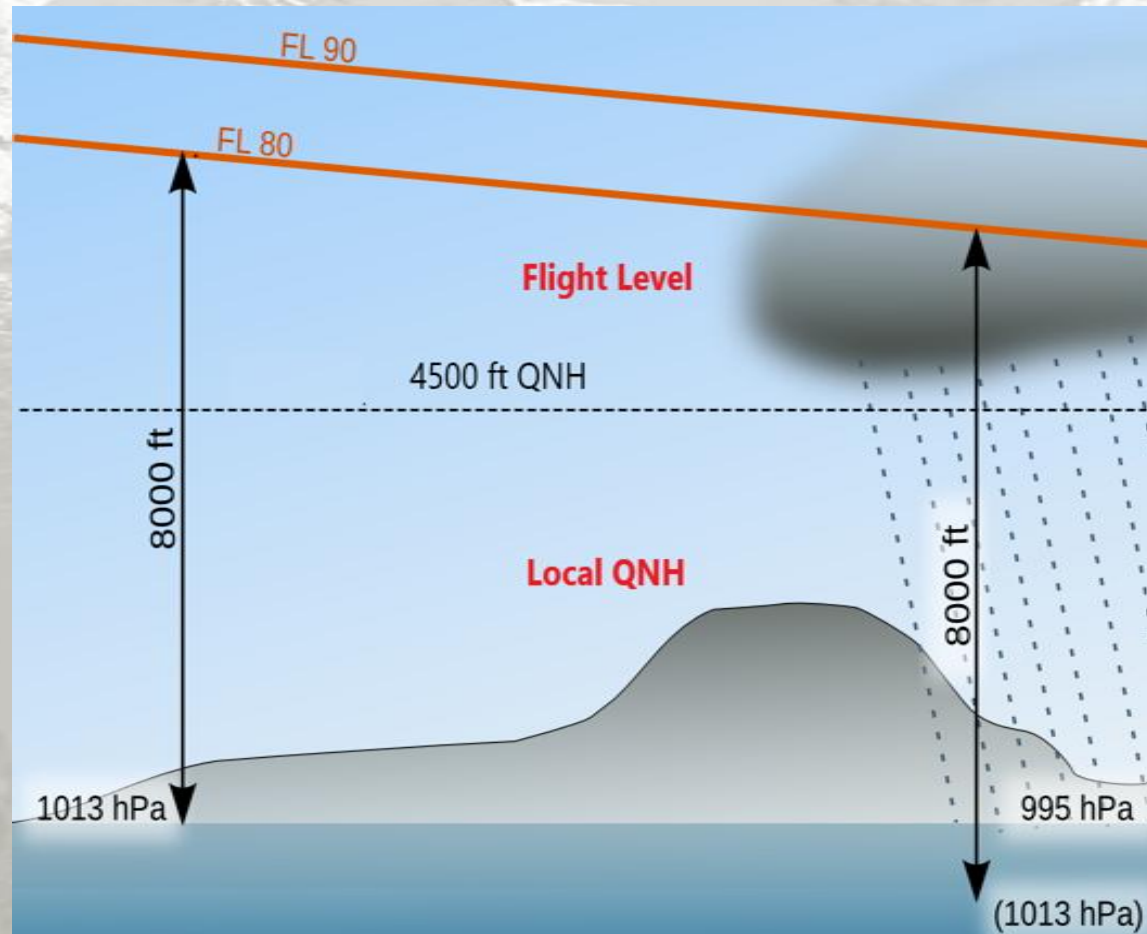
- **QNH** : Barometric altitude based on the MSL pressure (hPa) in a specific place. Right altitude if correctly set.
- **FL (QNE)**: Barometric altitude provided by the pressure altitude based on 1013,25 hPa. Unless the QNH is 1013.25 hPa, this Standard altitude is not the same as the altitude based on QNH
 - Air to Air separation
- **GPS** : Satellite-based altitude with 3D error quite high depending on the devices and places

XC Reminder – Altimetry

- **Local QNH :**

Is the one used for the entire country in non-controlled airspace.
It can change at any moment.

- In Belgium we switch from QNH to FL above 4500ft AMSL (± 1372 m)



XC Reminder – Airspace

- The sky is classified from **A**lpha to **G**olf zones, alpha being the most restrictive and Golf the less.

Class	Type of flight	Separation provided	Service provided	Speed limitation?	Radio communication capability requirement	Continuous two-way air-ground voice communication required	Subject to ATC CLR
A	IFR only	all ACFT	ATC service	not applicable	yes	yes	yes
B	IFR	all ACFT	ATC service	not applicable	yes	yes	yes
	VFR	all ACFT	ATC service	not applicable	yes	yes	yes
C	IFR	IFR from IFR IFR from VFR	ATC service	not applicable	yes	yes	yes
	VFR	VFR from IFR	(1) ATC service for separation from IFR; (2) ATC service VFR/VFR traffic information (and traffic avoidance advice on request)	250 KIAS below FL 100	yes	yes	yes
D	IFR	IFR from IFR	ATC service includes traffic information about VFR flights (and traffic avoidance advice on request)	250 KIAS below FL 100	yes	yes	yes
	VFR	NIL	ATC service includes traffic information about VFR flights (and traffic avoidance advice on request)	250 KIAS below FL 100	yes	yes	yes
E	IFR	IFR from IFR	ATC service, as far as practical, traffic information about VFR flights	250 KIAS below FL 100	yes	yes	yes
	VFR	NIL	traffic information as far as practical	250 KIAS below FL 100	no ¹⁾	no ¹⁾	no
F	IFR	IFR from IFR as far as practical	air traffic advisory service, FIS if requested	250 KIAS below FL 100	yes ¹⁾	no ¹⁾	no
	VFR	NIL	FIS if requested	250 KIAS below FL 100	no ¹⁾	no ¹⁾	no
G	IFR	NIL	FIS if requested	250 KIAS below FL 100	yes ¹⁾	no ¹⁾	no
	VFR	NIL	FIS if requested	250 KIAS below FL 100	no ¹⁾	no ¹⁾	no

- In Belgium** : non-controlled airspace is **G**, most of CTR are **D** and CTA (TMA, AWY, LTA, ...) are **C**.

XC Reminder – Airspace

- *Particular Segments :*

- **TRA:** Temporary Reserved Area

Reserved zone for special uses (most of the time forbidden for paragliders)

- **TSA:** Temporary Segregated Area

Divided zone for special uses or civilian/military optimization

(most of the time forbidden for paragliders)

- **LFA:** Low Flying Area

Low altitude training area or extended non-controlled airspace (**LFA-G**)

- **HTA:** Helicopter Training Area

Low altitude helicopter training area

XC Reminder – Airspace

- *Special Zones :*

- **D**: **D**anger

Zone with potential dangers for crossing aircraft (keep sharp look-out!)

- **R**: **R**estricted

Zone with conditional access (most of the time forbidden for paragliders)

- **P**: **P**rohibited

Forbidden access zone!

- **TMZ**: **T**ransponder **M**andatory **Z**one (forbidden for paragliders)
- **RMZ**: **R**adio **M**andatory **Z**one (forbidden for paragliders)
- **ATZ**: **A**irfield **T**raffic **Z**one (forbidden* for paragliders)

* See AIP for each
zones

XC Reminder – Airspace : **LFA Golf**

- Those are extended golf class airspace allocated by Skeyes to the glider community above 4500 ft^{AMSL} when Mil is not active
- Higher limit is « FL excluded ». This means we are not supposed to fly at that Flight Level.
 - **G1**: 4500ft^{QNH} – FL55 Excl. When MIL is not active
 - **G2**: FL55 – FL 75 Excl. When Gliders are requesting it
 - **G3**: FL55 – FL65 Excl.
 - **G5**: FL75 – FL90 Excl.

XC Reminder – FL conversion



Table de conversion des niveaux de vol (FL) en altitude AMSL en fonction du QNH

Fédération Française de Vol à Voile
Note Permanente 4.1.a - 19/01/2011
www.ffvv.org

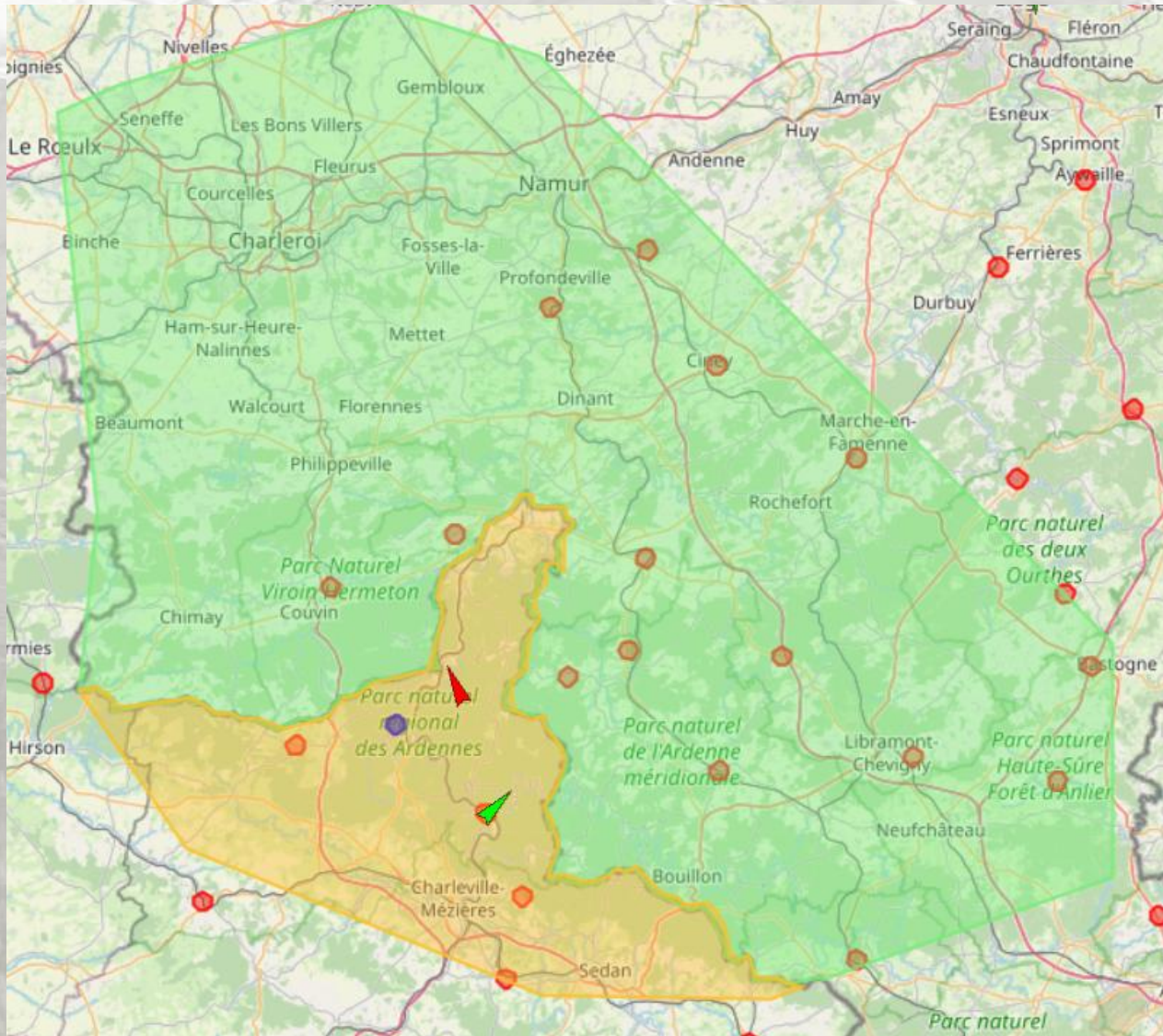
AMSL(m)	FL																											
QNH (hPa)	35	40	45	50	55	60	65	70	75	80	85	95	100	105	110	115	120	125	130	135	140	145	150	155	165	175	190	195
990	868	1021	1173	1326	1478	1630	1783	1935	2088	2240	2392	2697	2850	3002	3154	3307	3459	3612	3764	3916	4069	4221	4374	4526	4681	5136	5593	5745
991	877	1029	1182	1334	1487	1639	1791	1944	2096	2249	2401	2706	2858	3011	3163	3315	3468	3620	3773	3925	4077	4230	4382	4535	4689	5144	5601	5754
992	885	1038	1190	1343	1495	1647	1800	1952	2105	2257	2409	2714	2867	3019	3171	3324	3476	3629	3781	3933	4086	4238	4391	4543	4696	5153	5610	5762
993	894	1046	1199	1351	1504	1656	1808	1961	2113	2266	2418	2723	2875	3028	3180	3332	3485	3637	3790	3942	4094	4247	4399	4552	4696	5161	5618	5771
994	903	1055	1207	1360	1512	1665	1817	1969	2122	2274	2427	2731	2884	3036	3189	3341	3493	3646	3798	3951	4103	4255	4408	4560	4685	5170	5627	5779
995	911	1063	1216	1368	1521	1673	1825	1978	2130	2283	2435	2740	2892	3045	3197	3349	3502	3654	3807	3959	4111	4264	4416	4569	4783	5178	5635	5788
996	920	1072	1224	1377	1529	1682	1834	1986	2139	2291	2444	2748	2901	3053	3206	3358	3510	3663	3815	3968	4120	4272	4425	4577	4882	5187	5644	5796
997	928	1081	1233	1385	1538	1690	1843	1995	2147	2300	2452	2757	2909	3062	3214	3367	3519	3671	3824	3976	4129	4281	4433	4586	4891	5195	5653	5805
998	937	1089	1241	1394	1546	1699	1851	2003	2156	2308	2461	2765	2918	3070	3223	3375	3527	3680	3832	3985	4137	4289	4442	4594	4899	5204	5661	5813
999	945	1098	1250	1402	1555	1707	1860	2012	2164	2317	2469	2774	2926	3079	3231	3384	3536	3688	3841	3993	4146	4298	4450	4603	4908	5212	5670	5822
1000	954	1106	1259	1411	1563	1716	1868	2021	2173	2325	2478	2783	2935	3087	3240	3392	3545	3697	3849	4002	4154	4307	4459	4611	4916	5221	5678	5831
1001	962	1115	1267	1419	1572	1724	1877	2029	2181	2334	2486	2791	2943	3096	3248	3401	3553	3705	3858	4010	4163	4315	4467	4620	4925	5229	5687	5839
1002	971	1123	1276	1428	1580	1733	1885	2038	2190	2342	2495	2800	2952	3104	3257	3409	3562	3714	3866	4019	4171	4324	4476	4628	4933	5238	5695	5848
1003	979	1132	1284	1437	1589	1741	1894	2046	2199	2351	2503	2808	2961	3113	3265	3418	3570	3723	3875	4027	4180	4332	4485	4637	4942	5247	5704	5856
1004	988	1140	1293	1445	1597	1750	1902	2055	2207	2359	2512	2817	2969	3121	3274	3426	3579	3731	3883	4036	4188	4341	4493	4645	4950	5255	5712	5865
1005	996	1149	1301	1454	1606	1758	1911	2063	2216	2368	2520	2825	2978	3130	3282	3435	3587	3740	3892	4044	4197	4349	4502	4654	4959	5264	5721	5873
1006	1005	1157	1310	1462	1615	1767	1919	2072	2224	2377	2529	2834	2986	3139	3291	3443	3596	3748	3901	4053	4205	4358	4510	4663	4967	5272	5729	5882
1007	1013	1166	1318	1471	1623	1775	1928	2080	2233	2385	2537	2842	2995	3147	3299	3452	3604	3757	3909	4061	4214	4366	4519	4671	4976	5281	5738	5890
1008	1022	1174	1327	1479	1632	1784	1936	2089	2241	2394	2546	2851	3003	3156	3308	3460	3613	3765	3918	4070	4222	4375	4527	4680	4984	5289	5746	5899
1009	1031	1183	1335	1488	1640	1793	1945	2097	2250	2402	2555	2859	3012	3164	3317	3469	3621	3774	3926	4079	4231	4383	4536	4688	4993	5298	5755	5907
1010	1039	1191	1344	1496	1649	1801	1953	2106	2258	2411	2563	2868	3020	3173	3325	3477	3630	3782	3935	4087	4239	4392	4544	4697	5001	5306	5763	5916
1011	1048	1200	1352	1505	1657	1810	1962	2114	2267	2419	2572	2876	3029	3181	3334	3486	3638	3791	3943	4096	4248	4400	4553	4705	5010	5315	5772	5924
1012	1056	1209	1361	1513	1666	1818	1971	2123	2275	2428	2580	2885	3037	3190	3342	3495	3647	3799	3952	4104	4257	4409	4561	4714	5019	5323	5781	5933
1013	1065	1217	1369	1522	1674	1827	1979	2131	2284	2436	2589	2893	3046	3198	3351	3503	3655	3808	3960	4113	4265	4417	4570	4722	5027	5332	5789	5941
1014	1073	1226	1378	1530	1683	1835	1988	2140	2292	2445	2597	2902	3054	3207	3359	3512	3664	3816	3969	4121	4274	4426	4578	4731	5036	5340	5798	5950
1015	1082	1234	1387	1539	1691	1844	1996	2149	2301	2453	2606	2911	3063	3215	3368	3520	3673	3825	3977	4130	4282	4435	4587	4739	5044	5349	5806	5959
1016	1090	1243	1395	1547	1700	1852	2005	2157	2309	2462	2614	2919	3071	3224	3376	3529	3681	3833	3986	4138	4291	4443	4595	4748	5053	5357	5815	5967
1017	1099	1251	1404	1556	1708	1861	2013	2166	2318	2470	2623	2928	3080	3232	3385	3537	3690	3842	3994	4147	4299	4452	4604	4756	5061	5366	5823	5976
1018	1107	1260	1412	1565	1717	1869	2022	2174	2327	2479	2631	2936	3089	3241	3393	3546	3698	3851	4003	4155	4308	4460	4613	4765	5070	5375	5832	5984
1019	1116	1268	1421	1573	1725	1878	2030	2183	2335	2487	2640	2945	3097	3249	3402	3554	3707	3859	4011	4164	4316	4469	4621	4773	5078	5383	5840	5993
1020	1124	1277	1429	1582	1734	1886	2039	2191	2344	2496	2648	2953	3106	3258	3410	3563	3715	3868	4020	4172	4325	4477	4630	4782	5087	5392	5849	6001
1021	1133	1285	1438	1590	1743	1895	2047	2200	2352	2505	2657	2962	3114	3267	3419	3571	3724	3876	4029	4181	4333	4486	4638	4791	5095	5400	5857	6010
1022	1141	1294	1446	1599	1751	1903	2056	2208	2361	2513	2665	2970	3123	3275	3427	3580	3732	3885	4037	4189	4342	4494	4647	4799	5104	5409	5866	6018
1023	1150	1302	1455	1607	1760	1912	2064	2217	2369	2522	2674	2979	3131	3284	3436	3588	3741	3893	4046	4198	4350	4503	4655	4808	5112	5417	5874	6027
1024	1159	1311	1463	1616	1768	1921	2073	2225	2378	2530	2683	2987	3140	3292	3445	3597	3749	3902	4054	4207	4359	4511	4664	4816	5121	5426	5883	6035
1025	1167	1319	1472	1624	1777	1929	2081	2234	2386	2539	2691	2996	3148	3301	3453	3605	3758	3910	4063	4215	4367	4520	4672	4825	5129	5434	5891	6044
1026	1176	1328	1480	1633	1785	1938	2090	2242	2395	2547	2700	3004	3157	3309	3462	3614	3766	3919	4071	4224	4376	4528	4681	4833	5138	5443	5900	6052
1027	1184	1337	1489	1641	1794	1946	2099	2251	2403	2556	2708	3013	3165	3318	3470	3623	3775	3927	4080	4232	4385	4537	4689	4842	5147	5451	5909	6061
1028	1193	1345	1497	1650	1802	1955	2107	2259	2412	2564	2717	3021	3174	3326	3479	3631	3783	3936	4088	4241	4393	4545	4698	4850	5155	5460	5917	6069
1029	1201	1354	1506	1658	1811	1963	2116	2268	2420	2573	2725	3030	3182	3335	3487	3640	3792	3944	4097	4249	4402	4554	4706	4859	5164	5468	5926	6078
1030	1210	1362	1515	1667	1819	1972	2124	2277	2429	2581	2734	3039	3191	3343	3496	3648	3801	3953	4105	4258	4410	4563	4715	4867	5172	5477	5934	6087

IMPORTANT
TOOL FOR
GAA EXAM!



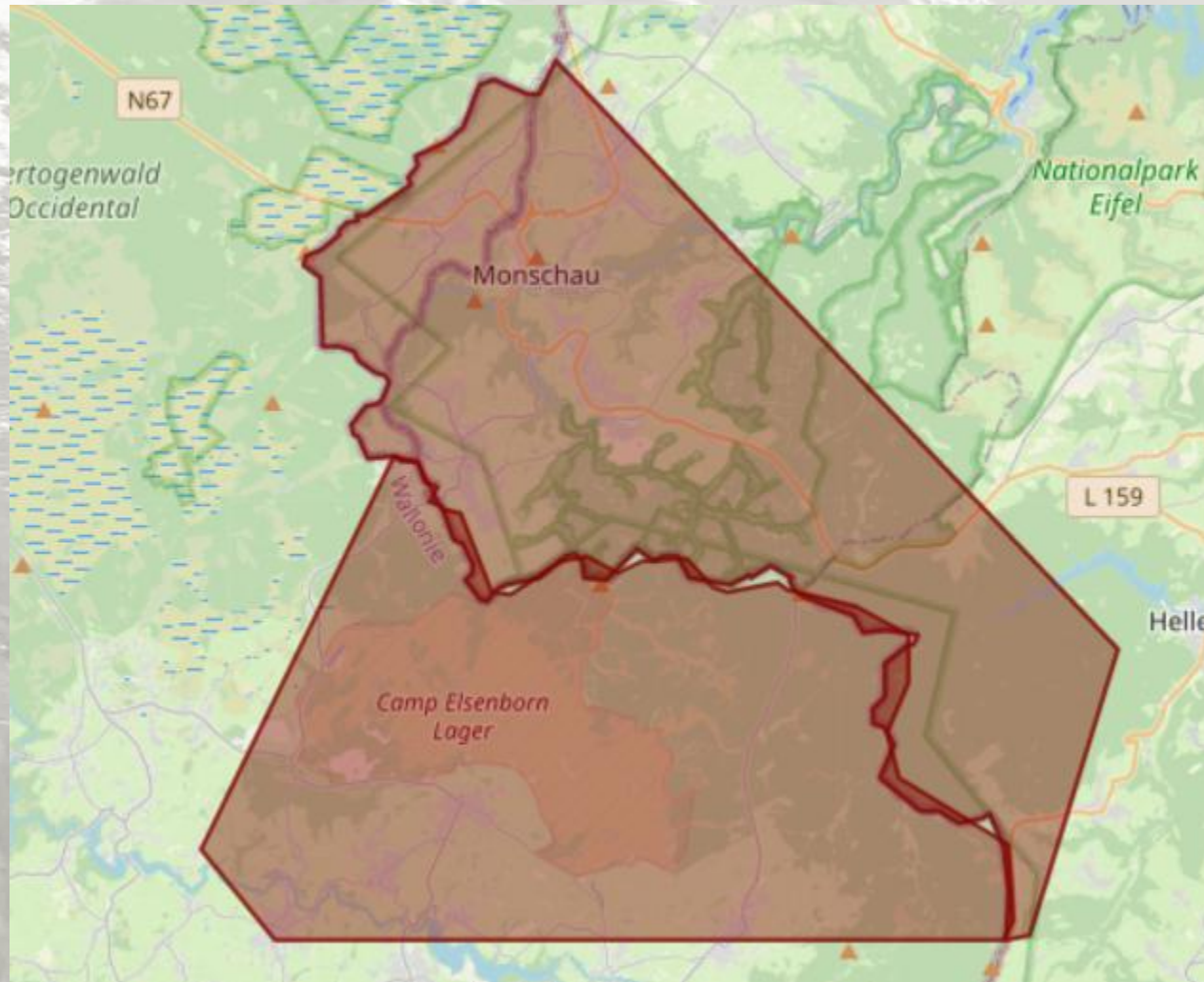
Higher the
pressure,
higher the
corresponding
altitude for a
given FL!

XC Reminder – Significant zones: TSA-26B (4500ft AMSL) & LFCBA 16B (FL65)



Important to know for
GAA EXAM

XC Reminder – Significant zones: EBR04 & ED R117



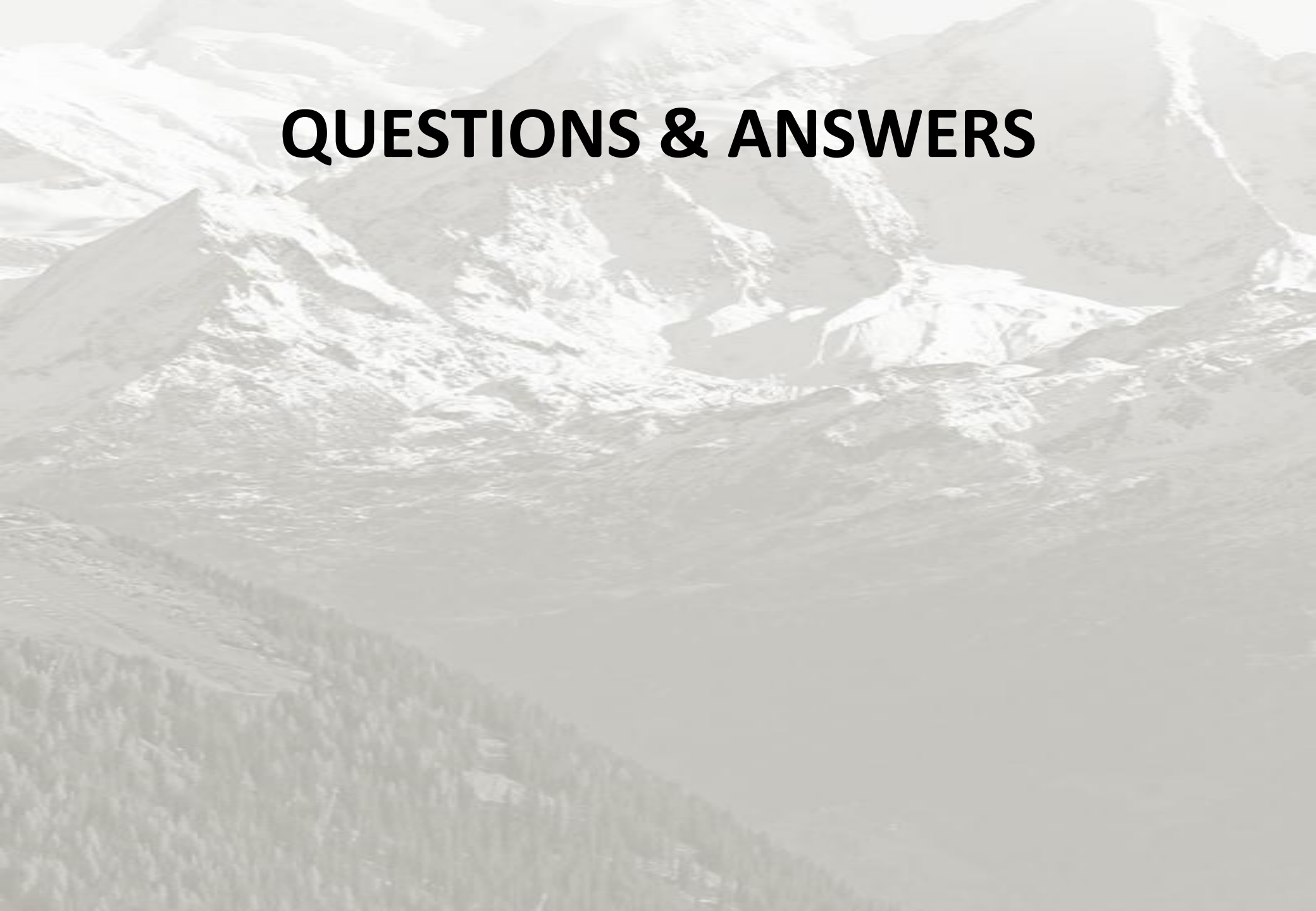
Summary: how to be allowed to fly within the GAA's?

- Before the flight
 - Always fly with Livetracking
 - Purchase a radio able to listen to EBSH
 - Get an Android device to run EBSH-tower app
 - Have received the GAA certificate number from FBVL
(Charter signed, exam succeeded, other conditions met)

Summary: how to be allowed to fly within the GAA's?

- The day of the flight
 - Check notam's to make sure GAA's are active and allowed
 - Keep flying with Livetracking
 - Listen to EBSH frequency
 - Run EBSH-tower app

QUESTIONS & ANSWERS

A grayscale photograph of a mountain range. The foreground shows a steep, forested slope. In the middle ground, there are several mountain peaks, some of which are covered in snow. The background features more distant, snow-covered mountain ranges under a clear sky. The overall scene is a high-altitude landscape.

Questions GAA-XC certificate

- The candidate is supposed to use a computer with internet access. The goal is to check that the pilot is able to prepare his flight, is able to find the info needed, understand the info and have the right info in mind while flying.
- Questions can be shared before the training/exams, so that the pilot can be better prepared. New scenarios (notams) will be used for each exam

Information with this color is a variable and will be changed for the exam.

Examen GAA-XC 12/04/2024

Date: Nom du pilote:

☐ Numéro brevet XC:

☐ Utilisation du Livetracking pour tous mes vols:

Depuis

Type: Flymaster – Xcontest/Xctrack

Identifiant:

☐ Utilisation d'une radio capable d'écouter la tour
EBSH (CH 122,180)

Brand/model:

☐ EBSH-Tower installé + enregistré

Le candidat est censé utiliser un ordinateur avec accès à Internet. Le but est de vérifier que le pilote est capable de préparer son vol, est capable de trouver l'info, de comprendre l'info et d'avoir la bonne info en tête en vol.

Signature du pilote



Questions (1)

- A quelle heure locale théorique (en se basant sur l'AIP) puis-je décoller d'Andenne et monter jusqu'à 1000 m AMSL le 30/08/2024 , 01/09/2024 , le 03/09/2024 et le 06/09/2024?

.....
.....

- A quelle condition puis-je voler jusqu'à 1950 m AMSL au sud de Revin lorsque la TSA26B est active?

.....

- Quelles sont les limites verticales de la EBR19 (Marche) ?

.....

- Quelle est la fréquence principale de la tour de Beauvechain ?

.....

Questions (2)

- Quelle distance maximum puis-je effectué si je souhaite monter jusqu'à 1700 m AMSL, vertical déco et effectuer un cross à la même hauteur dans un axe perpendiculaire au déco, dans le sens du vent (voir parenthèses!), sachant que la TSA26B est active et perméable au trafic GAA, la EBR04 est active, les GAA sont actives sans transpondeurs, en faisant max 100 KM? Indiquez 0 (Non autorisé) , 100 (aucune contrainte) ou le nombre de KM max depuis le déco si je suis arrêté à un moment donné dans mon projet.

Revin (**N-NO!**): La roche (N): Coo (O): Fumay (O): Beauraing (N):
7Meuses (S): Andenne (NE): Prayon (NE): Maboge (SO): Revin (S):

- Comment trouver l'information de façon certaine (à la source) des zones militaires actives, impactant nos vols potentiels en Wallonie et indiquez 2 zones principales qui nous concernent régulièrement?

- A) Quelles sont les 5 conditions pour qu'un pilote de parapente puisse obtenir son brevet XC GAA
- B) Quelles sont les 4 conditions pour qu'un pilote puisse voler dans une GAA en semaine une fois le brevet XC GAA obtenu?

Question (3)

FROM: 02 APR 2024 13:15 TILL: 05 APR 2024 15:00
SCHEDULE: APR 02 03 1315-1430 1500-1615 1900-2100, 04 0900-1000 1245-1345,
05 0800-0915 0945-1100 1345-1500
TSA26A - ARDENNES 01 ACT.
GAT ALLOWED TO CROSS TRACK MATIX-MMD ON FIXED LVL BLW FL195 AFTER
COOR BTN BELGA RADAR AND CRNA/NORD
Lower limit: FLO95 Upper limit: UNL

FROM: 05 APR 2024 08:00 TILL: 05 APR 2024 15:00
SCHEDULE: 0800-0915 1200-1315 1345-1500
LFA01-ARDENNES 01, LFA02-ARDENNES 02, LFA03-ARDENNES 03,
LFA04-ARDENNES 04, LFA05-ARDENNES 05, LFA06-ARDENNES 06 AND
LFA07-ARDENNES 07 ACT
Lower limit: 250FT AGL Upper limit: 500FT AGL

FROM: 05 APR 2024 06:30 TILL: 05 APR 2024 10:30
HTA13-HELICOPTER TRAINING AREA 13 ACT
Lower limit: GND Upper limit: 500FT AGL

FROM: 05 APR 2024 06:30 TILL: 05 APR 2024 15:30
LFA11-KOKSIJDE TRAINING AREA ACT
Lower limit: 10FT AMSL Upper limit: 500FT AMSL

FROM: 05 APR 2024 06:30 TILL: 05 APR 2024 14:00
SCHEDULE: 0630-1030 1100-1400
HTA08-HELICOPTER TRAINING AREA 08 ACT
Lower limit: GND Upper limit: 500FT AGL

FROM: 02 APR 2024 12:46 TILL: 05 APR 2024 15:30
SCHEDULE: 02 1246-SS, 03-05 0900-1530
REF SUP 007/2024, GLIDER AREA LA ROCHE ACT.
CONSULT SUP FOR APPLICABLE PROC. TRANSPONDER NOT REQUIRED
Lower limit: 4500FT AMSL Upper limit: FLO65

FROM: 02 APR 2024 13:15 TILL: 05 APR 2024 15:00
SCHEDULE: APR 02 03 1315-1430 1500-1615 1900-2100, 04 0900-1000 1245-1345,
05 0800-0915 0945-1100 1345-1500
EBD26-ARDENNES 05 ACT
Lower limit: 1000FT AGL Upper limit: 4500FT AMSL

FROM: 02 APR 2024 13:15 TILL: 05 APR 2024 15:00
SCHEDULE: APR 02 03 1315-1430 1500-1615 1900-2100, 04 0900-1000 1245-1345,
05 0800-0915 0945-1100 1345-1500
TSA26B - ARDENNES 04 ACT
Lower limit: 4500FT AMSL Upper limit: FLO95

Quelles sont les zones actives le 05/04 à (heure locale) midi:
15h10 :

Questions (4)

- Le 30/11/2023, sur base de l'espace aérien disponible dans le Friendly Air Tool, le QNH d'aujourd'hui, et avec les 3 GAA actives et autorisées aux ayants droit..., pour chaque site repris ci-dessous, indiquez dans la première colonne si je peux accomplir un vol de 40 km (maximum) en pouvant monter **au moins une fois** à une altitude de 1750 m AMSL. Prendre en compte une variation possible de 30° par rapport au cap annoncé ? Réponse: Oui ou Non.
- Pour les 5 premiers sites où il est possible d'effectuer ce vol, répondez aux questions suivantes:
 - Préciser si il est possible de maintenir 1750 m AMSL durant tout le vol dans la seconde colonne en commençant vertical déco (Rép: Oui ou Non)
 - Si la réponse est Non à la question précédente, donnez une distance approximative pendant laquelle il est possible de maintenir cette altitude (à quelque moment du vol que ce soit).
 - Donner le nom des zones actives rencontrées potentiellement dans un axe de +- 30° par rapport au cap donné (Y compris les zones danger).

	Vol 40K?	Entier?	# KM possible	Zones à prendre en compte
Depuis Coo, direction Est-Nord-Est				
Depuis Maboge, direction Nord-Est				
Depuis 7M, direction Nord-Est				
Depuis Beauraing, direction Sud				
Depuis Prayon, direction Sud				
Depuis Revin, direction Nord-Est				
Depuis Fumay, direction Est				
Depuis Revin, direction Ouest				

Activation LFA-G

LFA Golf Status

Status on Saturday 04 September 2021

The lowest QNH today is: **1016hPa**

Low Flying Area G1 is **ACTIVE** up to FL55 excluded (=1552 meter AMSL) from 1 local time.

Low Flying Area G2 North is **NOT ACTIVE**

Low Flying Area G2 West is **NOT ACTIVE**

Low Flying Area G2 South is **ACTIVE** up to FL75 excluded (=2162 meter AMSL) from 1100 local time.

Low Flying Area G5W is **ACTIVE** up to FL95 excluded (=2771 meter AMSL) from 1300 local time.

Low Flying Area G5E is **ACTIVE** up to FL95 excluded (=2771 meter AMSL) from 1300 local time.

Questions LFA-G (5)

- Comment obtenir les statuts des LFA-G de façon certaine (à la source)?

.....

- Depuis quel(s) déco(s) puis-je voler jusqu'à 1500m AMSL/2100m AMSL sur un vol XC de 25 km (pendant tout le vol, en démarrant vertical déco à Midi), sachant qu'une variation possible de 30° doit être prise en compte par rapport à la direction donnée? Dans la dernière colonne, indiquez si il y a des zones spécifiques à prendre en compte pendant le vol et comment les respecter.

	1500 AMSL	2100 AMSL	Zones à prendre en compte et à respecter
De Coo, direction Est-Nord-Est			
Depuis La Roche, direction Sud			
Depuis 7M, direction Nord-Nord-Est			
Depuis Beauraing, direction Sud			
Depuis Revin, direction Nod-Est			
Depuis Fumay, direction Est			
Depuis Prayon, direction Sud/Ouest			