



Training..... By Bertrand Fontaine (AIR<sup>3</sup> designer)

# XCTrack

# Menu

- Introduction
- Main actions
  - On screen-touchscreen – through buttons
- Main menu:
  - Navigation – Tracklogs – Customize – Preferences – IGC replay – Livetracking – Quit
- Advanced XCTrack training

# Introduction

- ~~Open source~~
- Xcontest = platform <-> XCTrack = App
- 2 versions:
  - Standard → Free
  - Pro: Check features details <https://www.fly-air3.com/en/software/xctrack-pro-air3/>
    - Perpetual licence (AIR<sup>3</sup>)
    - Monthly licence: user based
- 2 development channels
  - Standard
  - Beta (requires registration): still very stable

# Introduction

- XCTrack for AIR<sup>3</sup> = XCTrack for anyone, except :
  - Perpetual Pro licence
  - Special optimized configuration with 5 profiles
  - Specific feature for AIR<sup>3</sup>: Fanet and Flarm support
  - AIR<sup>3</sup> XCT addon: additional features through events trigger
- Full online manual – Videos tutos –  
Short videos – FAQ: <https://www.fly-air3.com/en/support/>

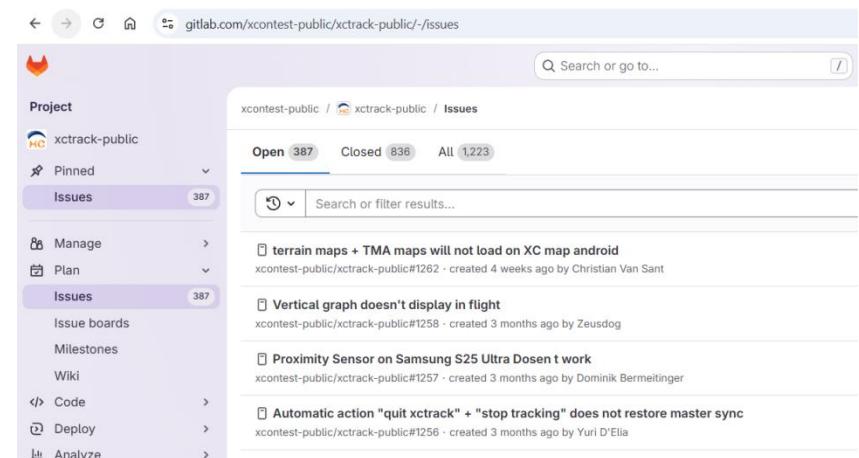
→ GOOGLE SEARCH!! Example: « XCTrack altitude statistics »

# Introduction

## ■ Want a new feature?

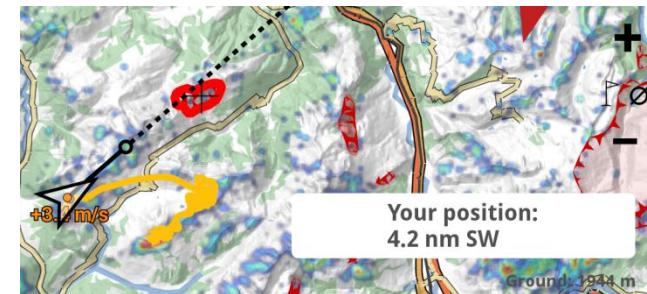
→ <https://gitlab.com/xcontest-public/xctrack-public/-/issues>

- Check if already requested
- Upvote for your favorite features!



# Main actions (on screen)

- Swipe Down → Menu
- Turn left/right → Change page
- Short click - Long click (widget configuration)
- Swipe Up → Toggle map mode
  - Move the map → ↓↑←
  - Zoom in (click on upper half – Zoom in button)
  - Zoom out (click on lower half - Zoom out button)
  - Long click on the map (contextual menu)
  - Get your position to a given target  
( widget configuration required)



# Main actions (physical buttons)



NB: with any phone, it is possible to add a BT remote control

- « + » Short click → Zoom in
- « - » Short click → Zoom out
- « + » Long click → Force Brightness +
- « - » Long click → Force Brightness -
- « Return » Short click → Toggle map mode
- « Return » Long click → Menu
- « F1 » Short click → Turn page left
- « F2 » Short click → Turn page right
- « F1 » Long click → Previous Waypoint
- « F2 » Long click → Next Waypoint



# Main Menu



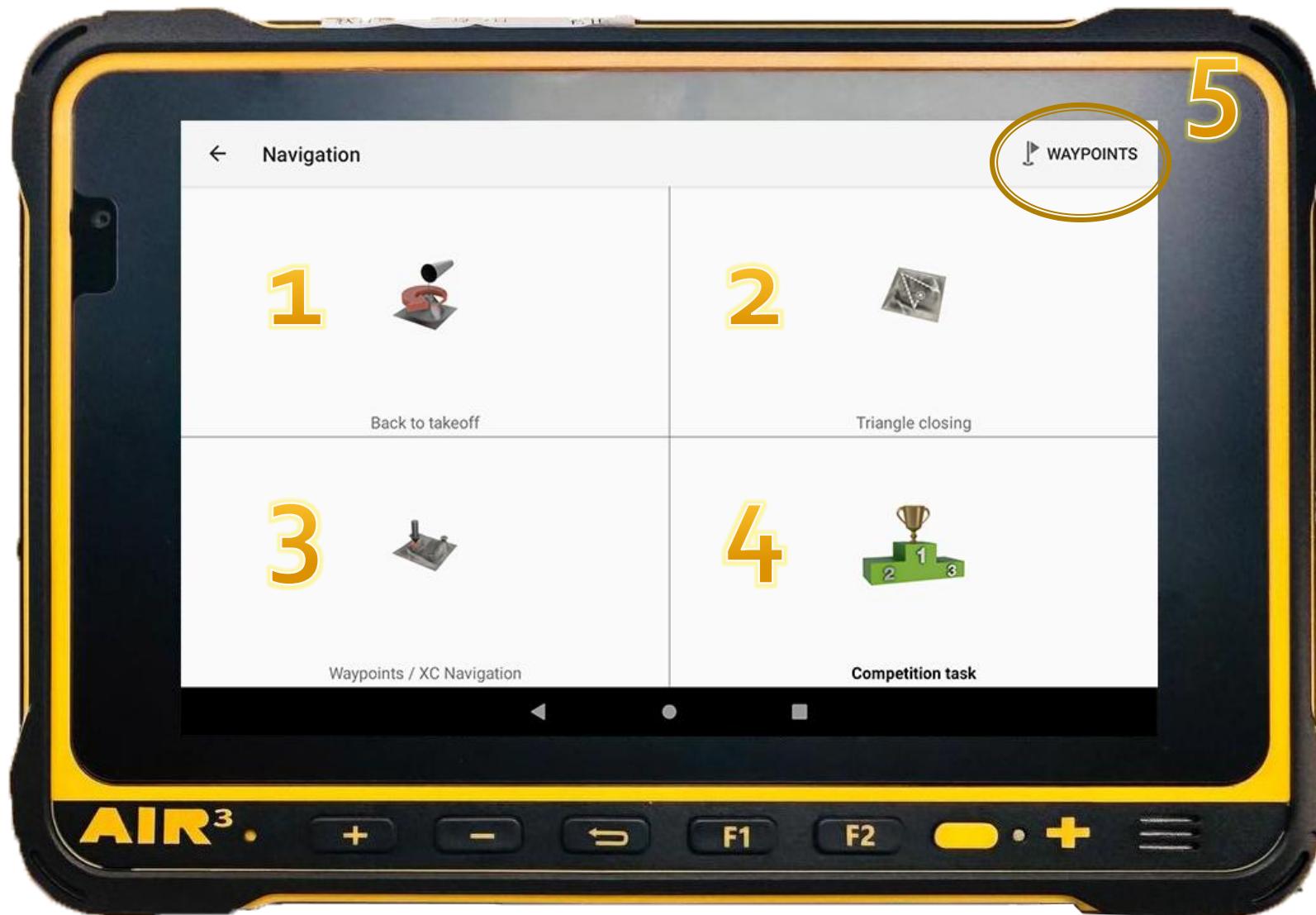
- Navigation
- Tracklog
- Customize - Widgets
- Preferences
- IGC replay\*
- Livetracking\*
- Quit

# Tips

- Livetracking only if Livetracking activated
- IGC replay only if replaying an IGC

# Navigation

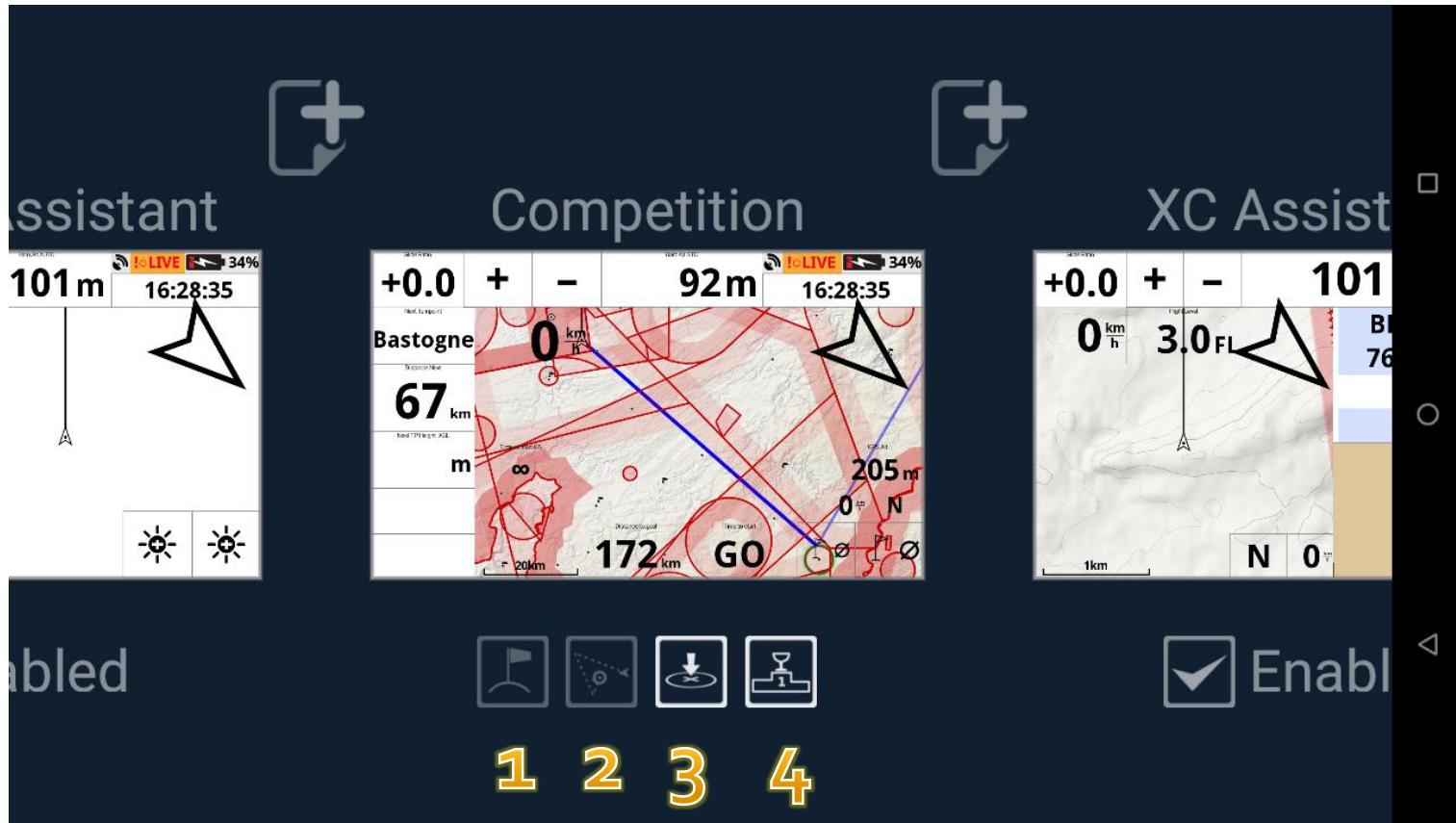
# Navigation



# Navigation

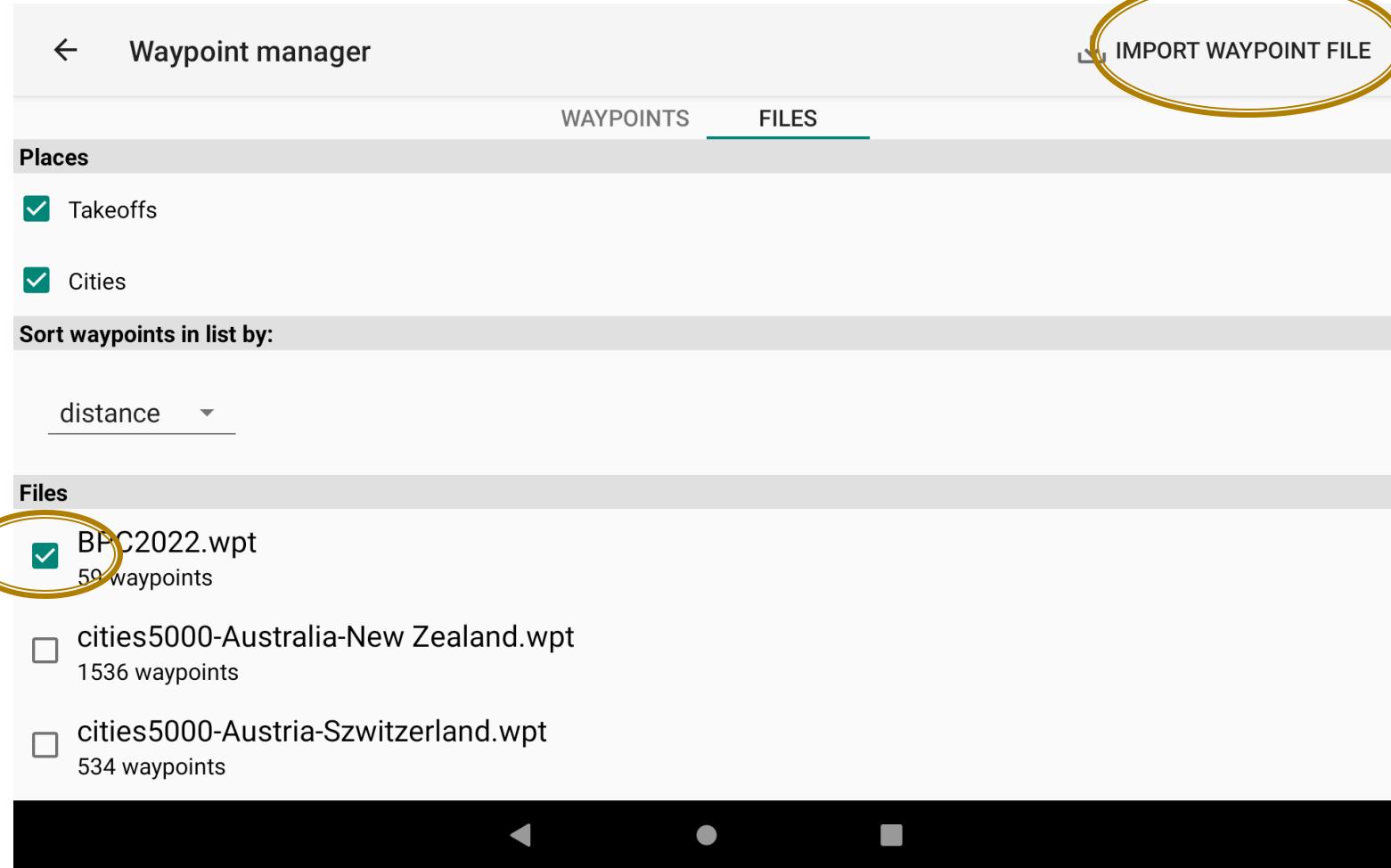
- 1** Back to takeoff  
→ indicates the direction of the takeoff
- 2** Triangle closing  
→ direction of the best triangle depending on your position and the flown distance
- 3** Waypoints/ XC navigation  
→ simple way to navigate through different waypoints with manual switch between turnpoints
- 4** Competition task  
→ navigate through different waypoints with automatic switch to next turnpoints once cylinder reached

# Navigation → page layout



# Waypoints

5



Waypoint manager

IMPORT WAYPOINT FILE

Places

- Takeoffs
- Cities

Sort waypoints in list by:

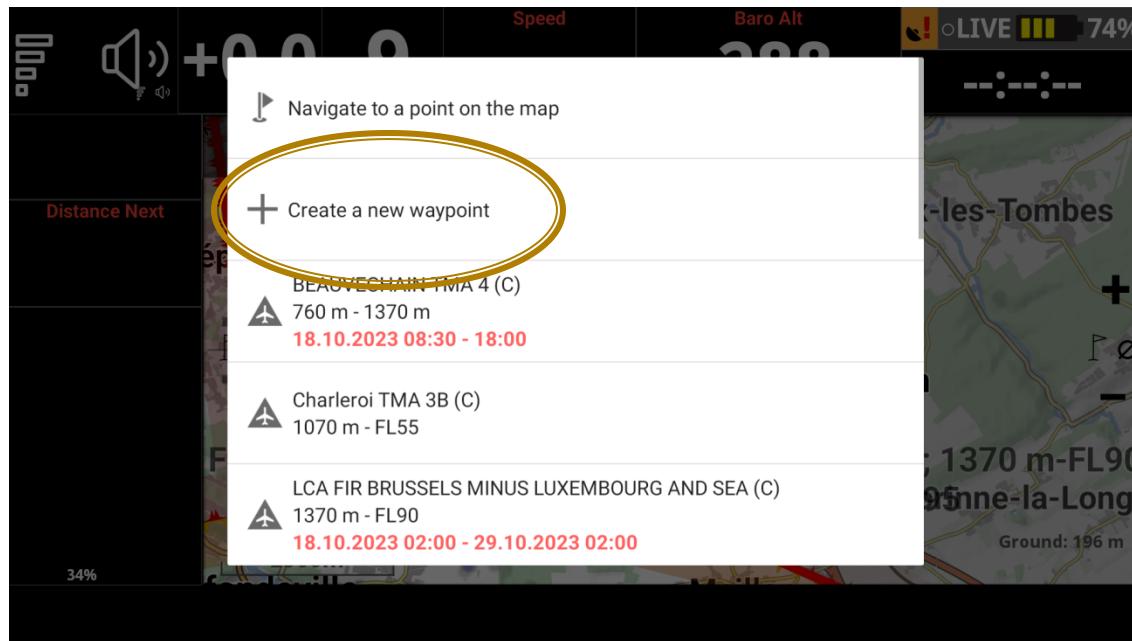
distance ▾

Files

- BPC2022.wpt  
59 waypoints
- cities5000-Australia-New Zealand.wpt  
1536 waypoints
- cities5000-Austria-Szwitzerland.wpt  
534 waypoints

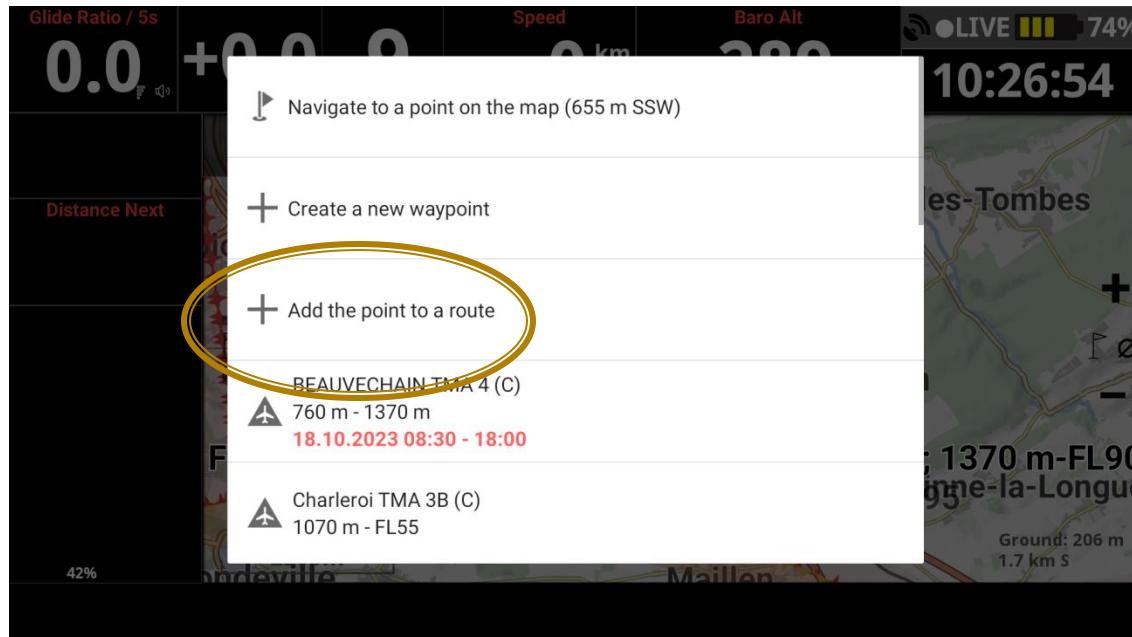
# More details - How to (XCTrack)?

- Create a waypoint on the map (Toggle map mode)



# More details - How to (XCTrack)?

- Create a route/task
  - From waypoints
  - Add waypoints from the map to route (toggle map mode)
  - From Friendly Air Tool! (<https://mids.be/fat/fat.php>), [Flyxc.app](https://flyxc.app)



# More details - How to (XCTrack)?

## ■ Task/route sharing

- QR code
- Cloud code sharing



Cloud task code

Task code: qalu

[SHARE URL](#)

[SHARE CODE](#)

OK

# Tracklogs

# Tracklogs

← Tracklogs

**2022-10-30-XCT-BER-01.igc**

2022-10-30 11:01 - Les Sept Meuses  
Berfon, FLOW PARAGLIDERS Fusion Light

**2022-10-16-XCT-BER-01.igc**

2022-10-16 12:34 - Les Sept Meuses  
Berfon, FLOW PARAGLIDERS Fusion Light

**2022-10-09-XCT-BER-01.igc**

2022-10-09 12:15 - Les Sept Meuses  
Berfon, FLOW PARAGLIDERS Fusion Light

**2022-09-25-XCT-BER-03.igc**

2022-09-25 14:04 - Saint Hilaire  
Berfon, FLOW PARAGLIDERS Fusion Light

**2022-09-25-XCT-BER-02.igc**

2022-09-25 12:28 - Saint Hilaire  
Berfon, FLOW PARAGLIDERS Fusion Light

**2022-09-25-XCT-BER-01.igc**



# Track-Stats

← Tracklog details 1 2 3 4 ⚡ ⚡ ⚡

2018-05-11-XCT-BFO-101.igc

**Basics**

Date	2018-05-11 10:42
Pilot	Bertrand Fontaine
Glider	BGD Lynx

**Flight**

Duration	4 hours 36 min
Tracklog length	189.2 km
Max. lift	+3.9 m/s
Max. sink	-3.7 m/s
Max. lift vario peak	+4.0 m/s
Max. sink vario peak	-4.0 m/s
Max. altitude	1719 m
Max. alt. gain	1360 m
Elevation drop	298 m

**Takeoff**

Name	Devon
------	-------

# Track- Routes

← Tracklog details **2** ⚒ ⚒ ⚒

	STATS	ROUTES	XCONTEST
<b>Straight distance</b>			
Total		131.6 km	
<b>Distance over 3 turnpoints</b>			
 Total		136.0 km	
 Legs		2.4 km (1.8%)	
 Closing		1.6 km (1.2%)	
		102.0 km (75.0%)	
		29.8 km (22.0%)	
<b>FAI triangle</b>			
 Total		4.6 km	
 Legs		1.5 km (28.2%)	
		1.6 km (30.7%)	
		2.2 km (41.1%)	
 Closing		880 m (15.9%)	
<b>Flat triangle</b>			
 Total		4.9 km	
 Legs		1.6 km (28.0%)	

# Track-Xcontest (manual upload)

Tracklog details 3   

STATS ROUTES XCONTEST

Username  
berfon

FAI Class  
Paraglider (FAI-3)

Glider

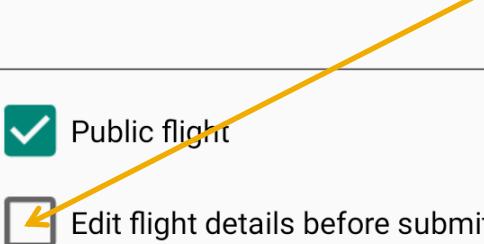
 CHANGE GLIDER DATA

Comment

---

Public flight

Edit flight details before submit



# Track-Xcontest



Active flight

Login to the contests

BETA TESTING XTRACK

LIVETRACKING

World XContest 2025

Belgian Paragliding Cup 2025

Valid part

14:55:49 - 15:41:43 [00:45:54 min]

FAI class

FAI-3 (PG)

FLOW PARAGLIDERS Mystic

Glider

Country (launch)

Belgium [BE]

Launch

Les Sept Meuses ~0.05 km

Comment (flight description)

The start of the season

WWW

<https://www.fly-air3.com>



SAVE

# Track-Xcontest-done

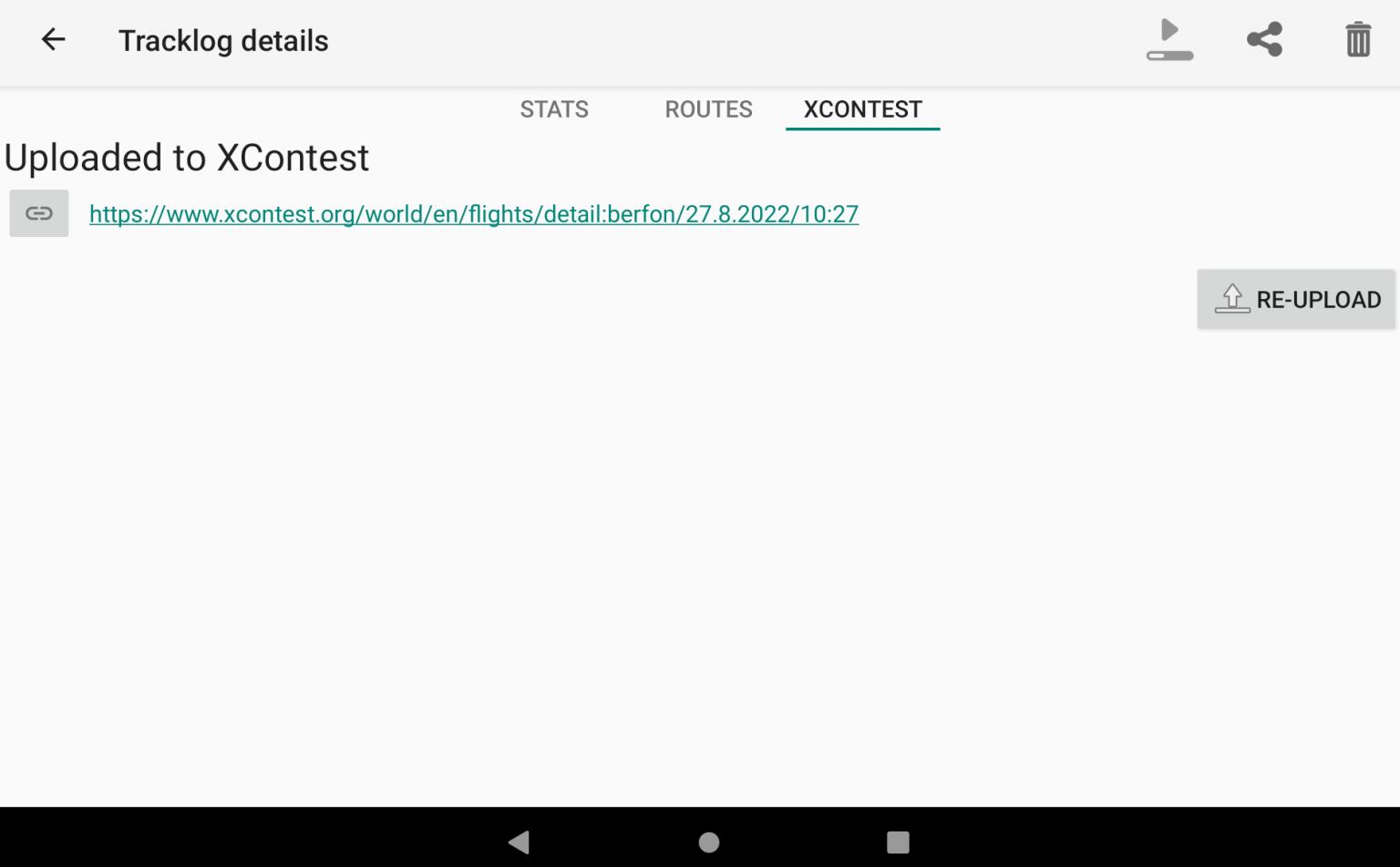
← Tracklog details

STATS ROUTES XCONTEST

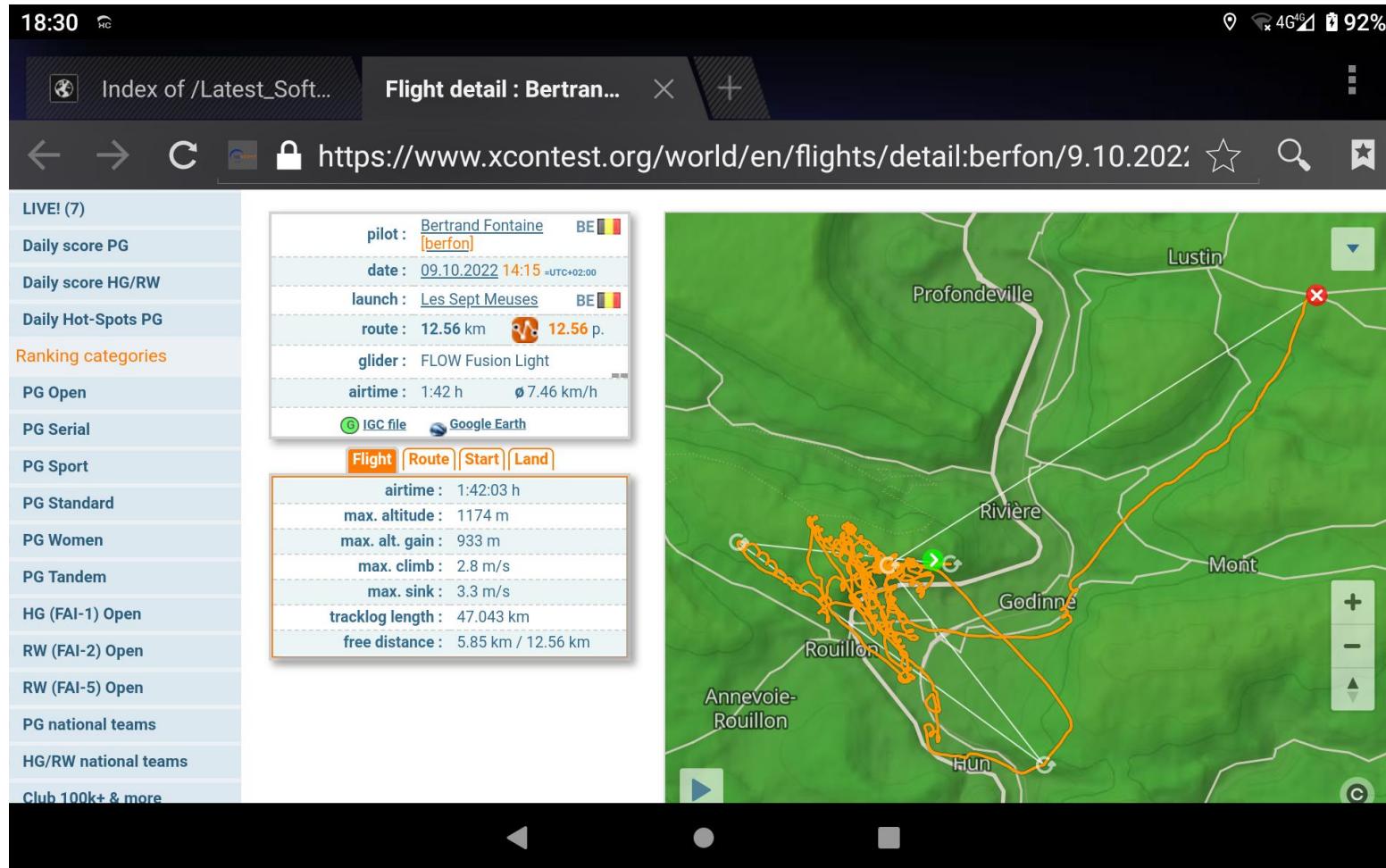
Uploaded to XContest

<https://www.xcontest.org/world/en/flights/detail:berfon/27.8.2022/10:27>

RE-UPLOAD



# Track-Xcontest-link



# Track-Xcontest-logbook



XContest 2019

WORLD XContest NATIONAL XContests XCTrack Airspace Paramotors

User: berfon ::LogOUT::

Belgian Paragliding Cup 2019

Flights

Daily score PG

Ranking

Overall

Performance

Sport

Standard

Club 100k+

Pilots

Rules

Join us on Facebook!

» BPC [en] » My flights

## My flights

★ My flights :: Belgian Paragliding Cup 2019 ▾

In the table you have all your flights claimed to the contest.

Basic statistics:

Total nr. of flights: 47
Total time: 90:09:34 h
Total free distance: 1436.38 km

No.	start time	launch	route	length	points	glider	submitted	info	status	actions
1	30.06.19 UTC+02:00 13:30	FR	Mont Lachat ✓	60.80 km	60.80 p.	AIRDESIGN	10.04.06:00	?	OK	?
2	15.09.19 UTC+02:00 16:31	FR	Fumay ✓	6.17 km	8.64 p.	AIRDESIGN	15.09.16:51	?	OK	?
3	14.09.19 UTC+02:00 16:02	BE	Andenne ✓	13.59 km	13.59 p.	AIRDESIGN	14.09.14:59	?	OK	?
4	02.09.19 UTC+02:00 18:33	FR	Fumay ✓	5.13 km	7.18 p.	AIRDESIGN	02.09.17:25	?	OK	?
5	02.09.19 UTC+02:00 14:22	FR	Fumay ✓	45.62 km	45.62 p.	AIRDESIGN	02.09.14:59	?	OK	?
6	25.08.19 UTC+02:00 12:43	FR	Revin ✓	57.86 km	57.86 p.	AIRDESIGN	25.08.16:28	?	OK	?
7	24.08.19 UTC+02:00 14:20	BE	Les Sept Meus... ✓	9.31 km	9.31 p.	AIRDESIGN	24.08.13:03	?	OK	?
8	22.08.19 UTC+02:00 12:32	FR	Revin ✓	35.47 km	42.56 p.	AIRDESIGN	22.08.14:10	?	OK	?

**My Contest Menu:**

- My profile
- Flight claim
- My flights

**AIR<sup>3</sup>**  
2651m 13:30:20  
Thines 5m 1:50

WWW.FLY-AIR3.COM

**BVVF**  
FBVL

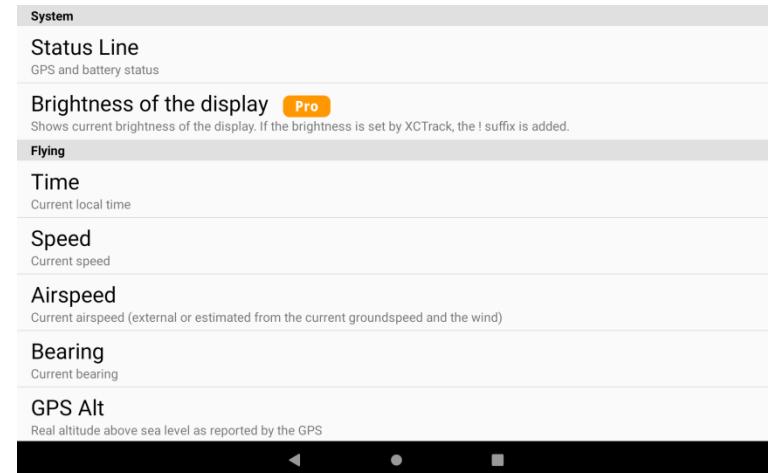
# Customize

# Customize



# More details - How to (XCTrack)?

- Customize the layout
  - Add /Delete/Resize/Move/Configure widgets
  - Portrait ≠ Landscape, each page = own layout



# Widgets

## System

### Status Line

GPS and battery status

### Brightness of the display Pro

Shows current brightness of the display. If the brightness is set by XCTrack, the ! suffix is added.

## Flying

### Time

Current local time

### Speed

Current speed

### Airspeed

Current airspeed (external or estimated from the current groundspeed and the wind)

### Bearing

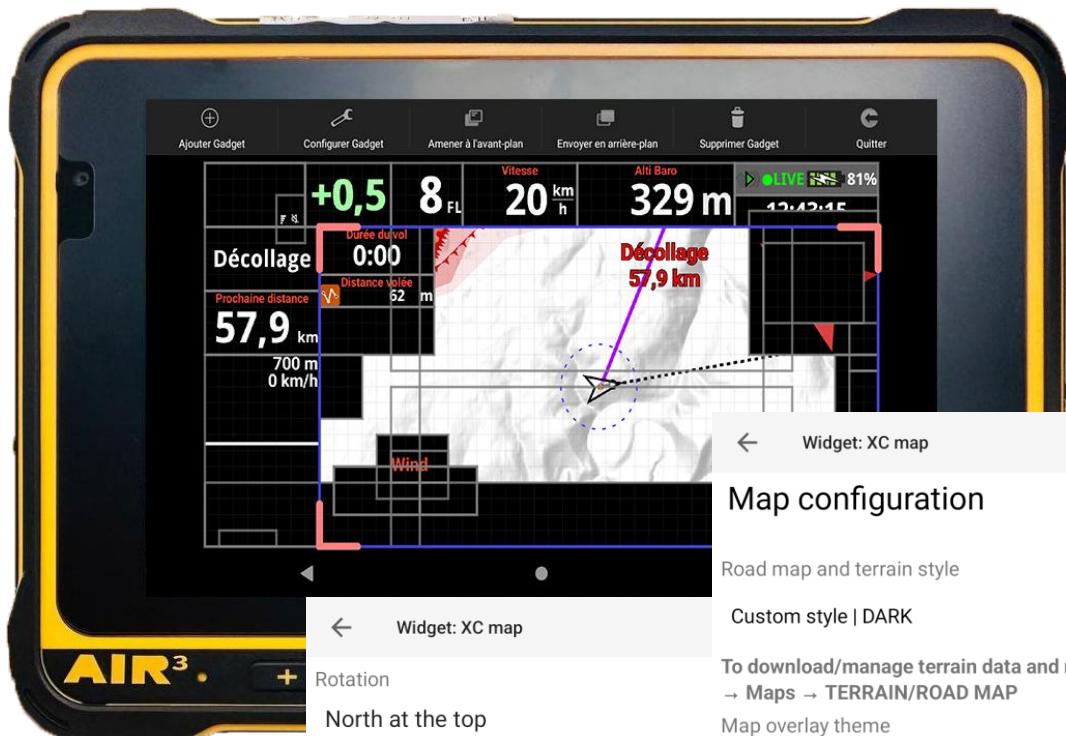
Current bearing

### GPS Alt

Real altitude above sea level as reported by the GPS



# Widget configuration



## Map configuration

Road map and terrain style

Custom style | DARK

To download/manage terrain data and road maps for your area, or set a custom map style, please go to Preferences

→ Maps → TERRAIN/ROAD MAP

Map overlay theme

Automatic

AIR<sup>3</sup>

Rotation

North at the top

Display North direction

Map scale: 3km

Autoscale to fit the whole tracklog

Keep pilot in the center of the screen

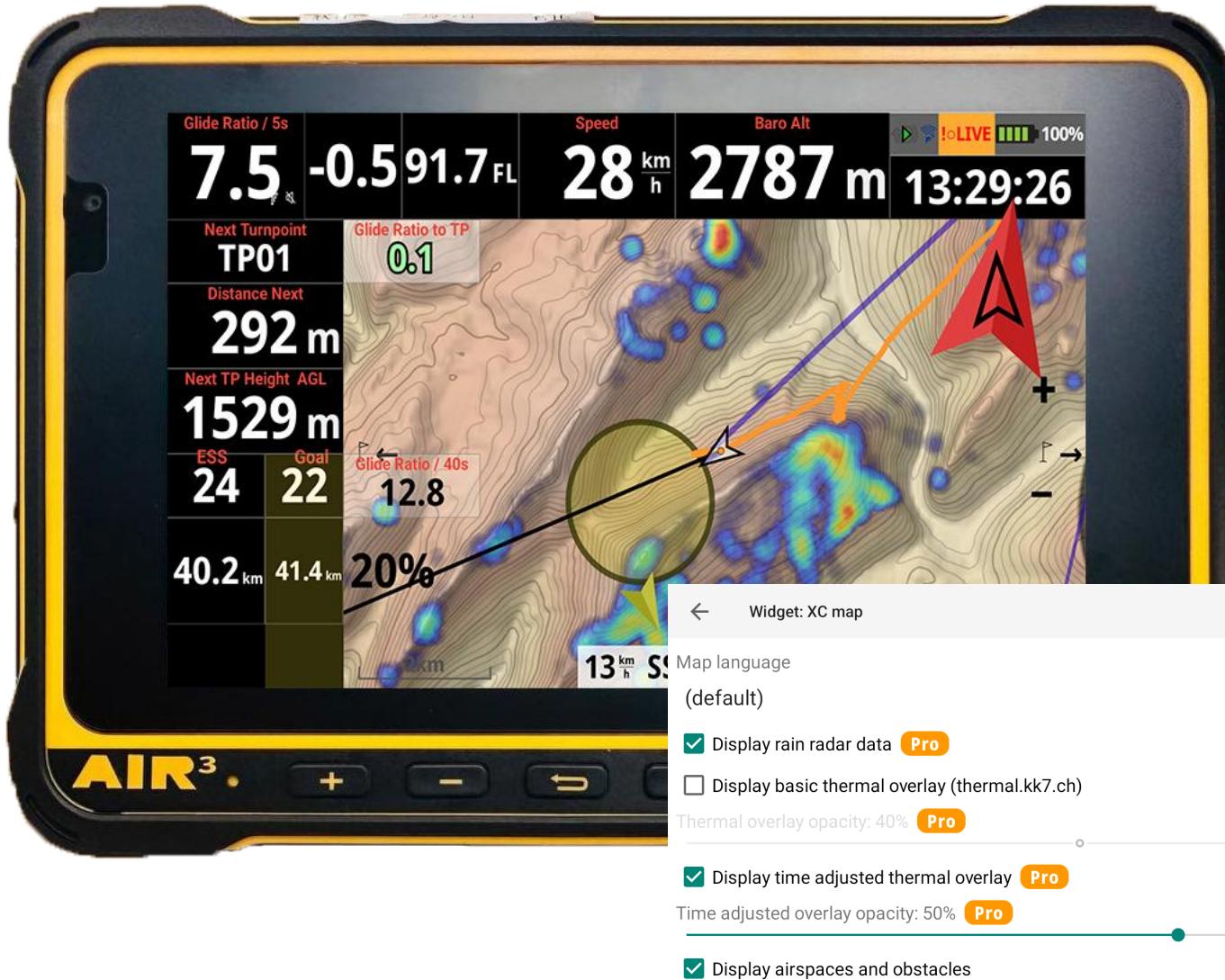
Distance from the edge: 30%

Display map scale

Show relative position in pan mode.

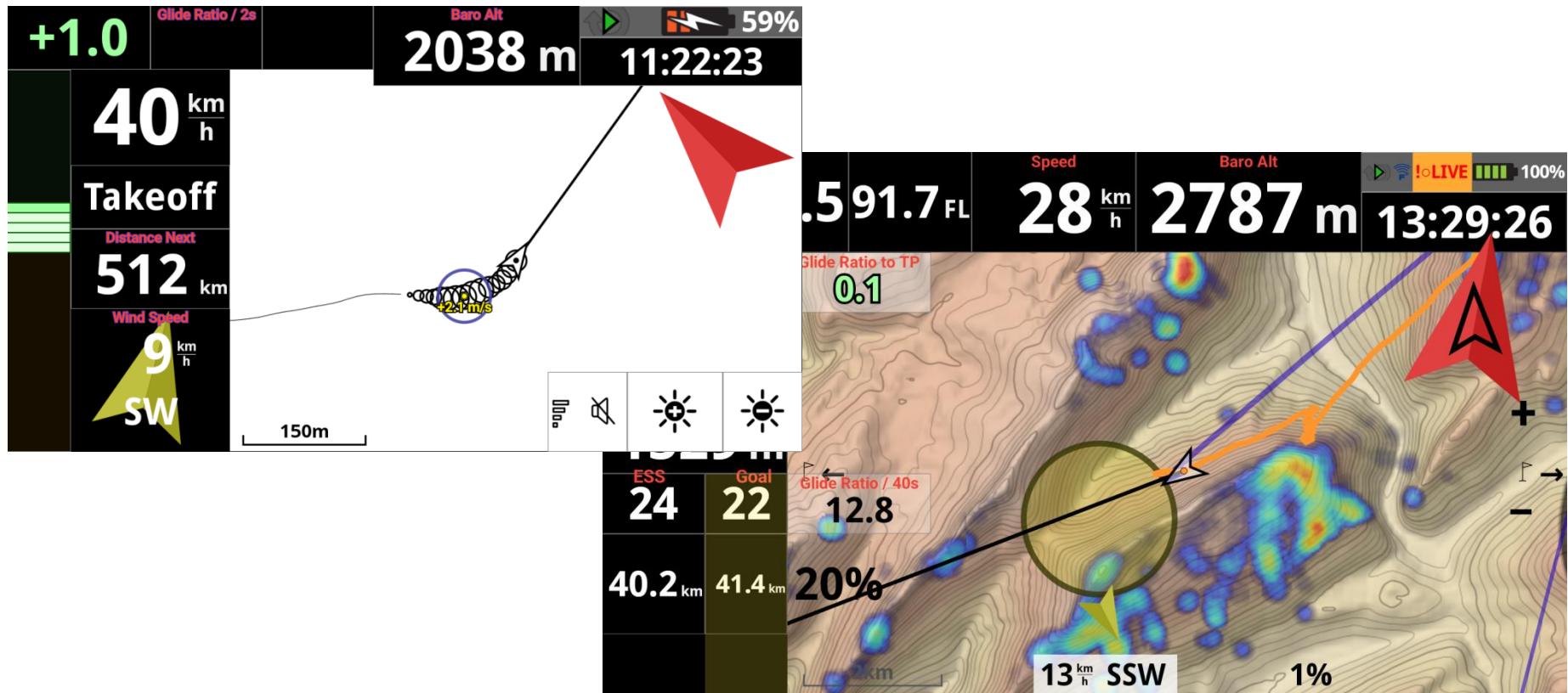
?

# Widget tip: thermal map



# More details - How to (XCTrack)?

- Thermal assistant Vs. Thermal map



# Preferences

# Preferences (settings)

 Pilot

 Aircraft

 Livetracking

 XC Disciplines and Competition

 Altimeter/QNH settings

 Airspaces

 Maps

 Sound

 Display



# Preferences: quick overview

- Pilot: Login and Pswd of Xcontest account
  - « logged in to Xcontest »!
- Aircraft
- Livetracking (internet required)
  - Xcontest Livetracking
  - Electronic Conspicuity (Safesky)

# Electronic Conspicuity

← Livetracking

## Electronic Conspicuity

 SafeSky is a flight information service improving VFR situation awareness. By broadcasting your location, you help ensure that other aircraft can see you, and contribute to a safer sky for everyone.

Send position to SafeSky

Registration successful

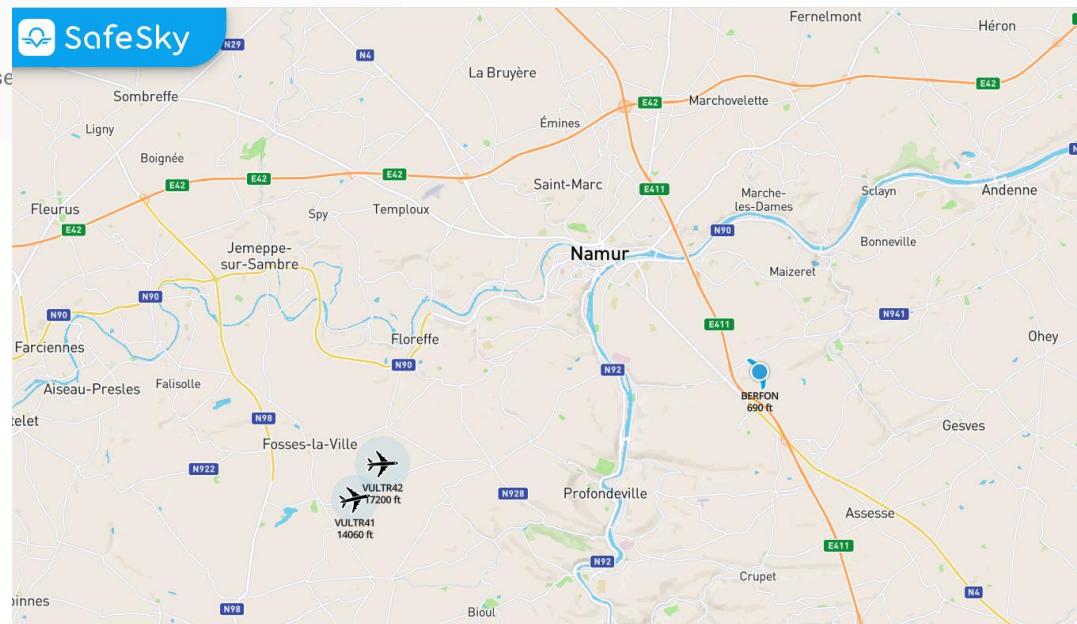


Send location data every

5 seconds

Anonymous mode 

In anonymous mode no call-sign is registered with SafeSky. By default, XContest uses call-sign.



# More details - Livetracking

- Xcontest Livetracking – Fanet – Flarm- Electronic Conspicuity (Safesky)
  - Xcontest: largest paragliding platform internet-based
  - Fanet: Livetracking. No internet needed.
  - Flarm: Flight alarm! Collision avoidance. No internet
  - Safesky: Internet-based. Aggregation of all livetracking platforms for others to see you



# Preferences: quick overview

- Altimeter/QNH settings
  - Get QNH automatically! Internet required.
- Airspace & Obstacles
  - Click + refresh..... Automatic upon restart. Internet required
- Maps
  - Terrain= Ground altitude
  - Roadmaps : Maps Manager
  - Map style (exemple: bigger cities)

# Preferences: Terrain – Maps - Style

The image shows the XCTrack software interface with a focus on map styles and a flight map.

**Top Left:** A sidebar titled "Maps" with a back arrow. It shows two tabs: "TERRAIN" (selected) and "ROAD MAP". Below the tabs is a small thumbnail of a map. The sidebar lists "Europe" and several countries with their sizes: Albania (20.2MB), Andorra (8.1MB), Austria (50.0MB), Belarus (52.6MB), ✓ Belgium (20.2MB), and Bosnia and Herzegovina (25.8MB).

**Top Right:** A "MANAGE MAPS" section with a "CLEARPILOT-AIR3-BIG-CITIES.XML" file selected. It includes a "Description" text block and a "CLEARPILOT-AIR3-BIG-CITIES.XML" file preview.

**Bottom Left:** A flight map showing terrain and flight data. The map includes a red arrow pointing upwards. The flight data panel shows:

- Glide Ratio / 5s: 4.1
- Speed: 43 km/h
- Baro Alt: 2828 m
- Flight Time: 13:28:43
- TP01
- Distance Next: 699 m
- Air time: 1:17
- Wind: 13 km/h SSW
- Altitude: 3000 m
- Flight level: 93 FL
- Flight direction: 43°
- Flight time: 13:28:43
- Flight distance: 15 km
- Flight speed: 14 km/h
- Flight altitude: 12 km/h
- Flight wind: 9 km/h
- Flight climb: 8 km/h
- Flight descent: 10 km/h
- Flight turn: 4 km/h
- Flight roll: 2 km/h
- Flight yaw: 4 km/h
- Flight roll: 5 km/h

**Bottom Right:** A "XCTrack Road Maps" window showing "Internal storage". It lists several map files with checkboxes:

- Austria\_ML.map (944 MB)
- Belgium\_ML.map (369 MB) (checked)
- France\_North.map (1422 MB)
- France\_South.map (1704 MB)
- Italy.map (1444 MB)
- Spain\_Portugal.map (1340 MB)
- Switzerland\_ML.map (1900 MB)

Buttons at the bottom right include "1 DOWNLOAD MAP" (3), "2 IMPORT MAP" (5), and "3 Alternative download: OpenAndroMaps.org (Europe, Other maps)".

# Preferences: quick overview

- Sound
  - Acoustic vario!
- Display
  - Main theme (each widget can be customized)
  - Full screen Off = android buttons available
  - Widgets titles
- ActiveLook glasses/Maverick glasses
  - Define the layout here!
- Pages layout: manage pages.
  - Depending on navigation choice – new/delete/copy page

# Preferences: quick overview

## ■ Key bindings

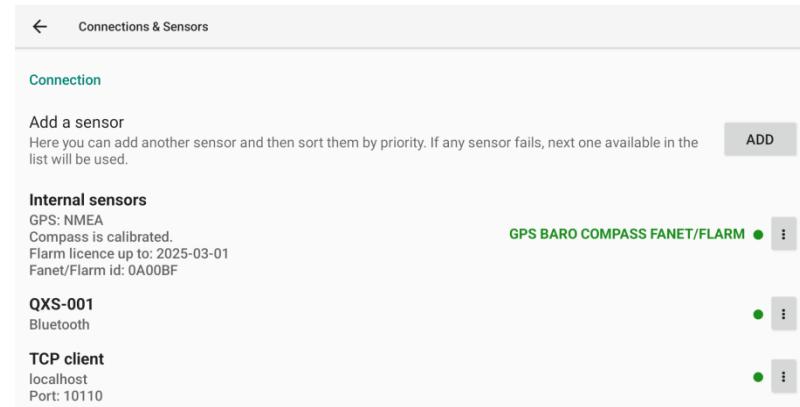
- Select action – press the key

## ■ Automatic actions

- Landing and takeoff detection
- Start/end thermal – etc.

## ■ Connections & Sensors

- Internal sensors (GPS, Baro, Flarm/Fanet (AIR<sup>3</sup>))
- External sensors for XC Guide TCP or BT sensors



# Preferences: quick overview

- Export & import config
  - Choose Pages ONLY!
- Android integration
  - Keep screen ON/OFF
  - Disable HW acceleration?

# IGC Replay

# IGC replay

← IGC Replay Settings

/storage/emulated/0/Android/data/org.xcontest.XCTrack/files/Tracklogs/2022-10-30-XCT-BER-01.igc

Tracklog position (UTC): 11:01:45



Replay speed: 1 x



EXIT REPLAY



# Livetracking

# Livetracking

FLIGHTS

MESSAGES

FLARM

1 live pilots within 15km radius. Swipe down to see all flights.



air3 21005 14 m ●

air3.21005 FLOW PARAGLIDERS Fusion Light

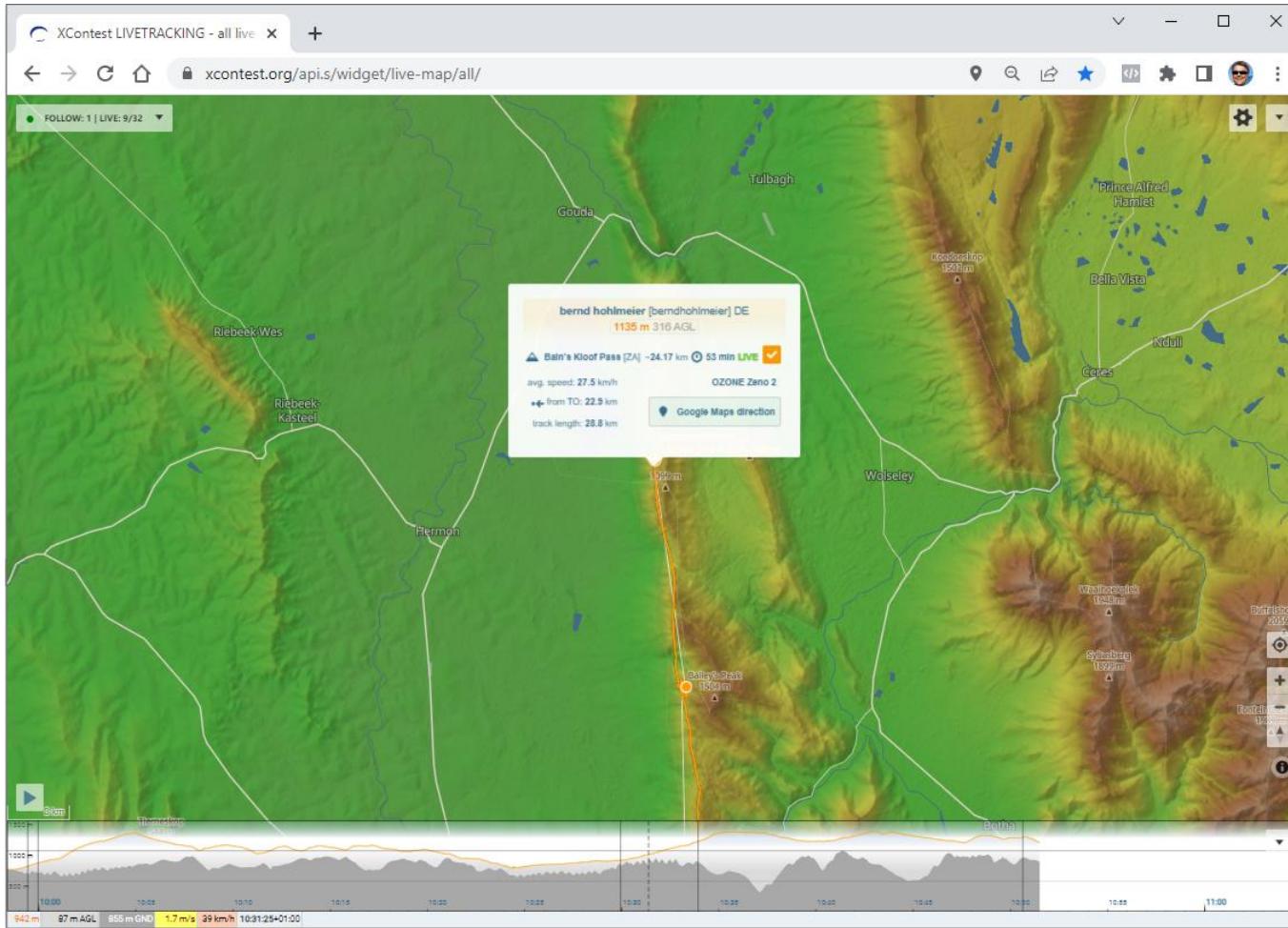
?



# Livetracking - XCTrack



# Livetracking - Xcontest

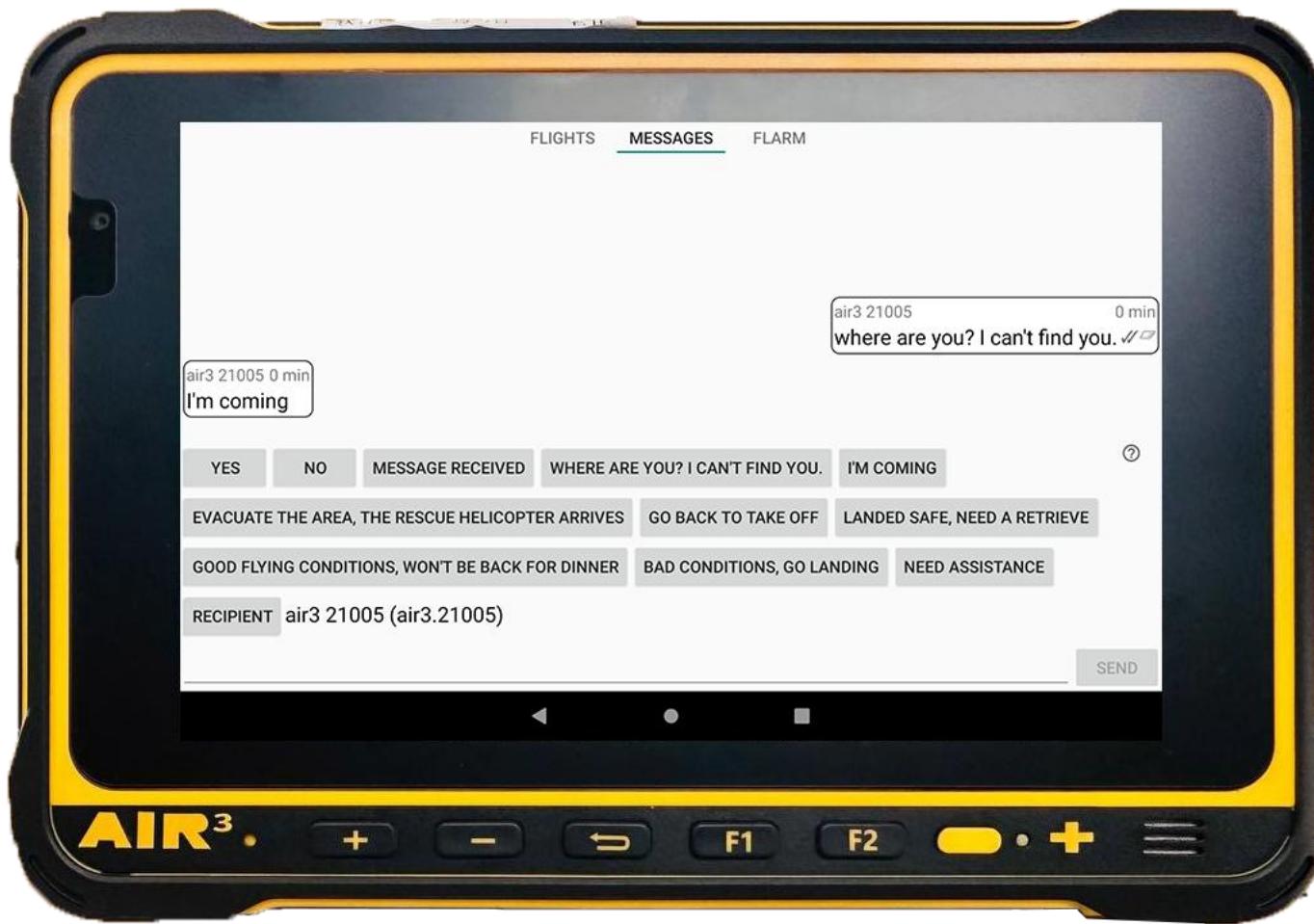


# Livetracking - refreshed

	FLIGHTS	MESSAGES	FLARM
<input type="checkbox"/>	Mark Baumann 527 km ● -10min MarkBaumann OZONE Delta 4 ? (FR) 5.8 km FreeFlight		
<input type="checkbox"/>	Jiří Bečvář 582 km ● -119min becvik UP Meru ? (DE) 33.2 km FreeFlight		
<input type="checkbox"/>	Martin Soukup 716 km ● climber ADVANCE Sigma 11 ? (CZ) 12.9 km FreeFlight		
<input type="checkbox"/>	Mattia Jasinski 719 km ● JASINSKI OZONE Zeolite GT Bassano (IT) 22.4 km FlatTriangle		
<input type="checkbox"/>	krzysztof Makowski 795 km ● -36min Makowski ADVANCE Sigma 11		



# Livetracking - Messages



# Livetracking - Message



**Quit**

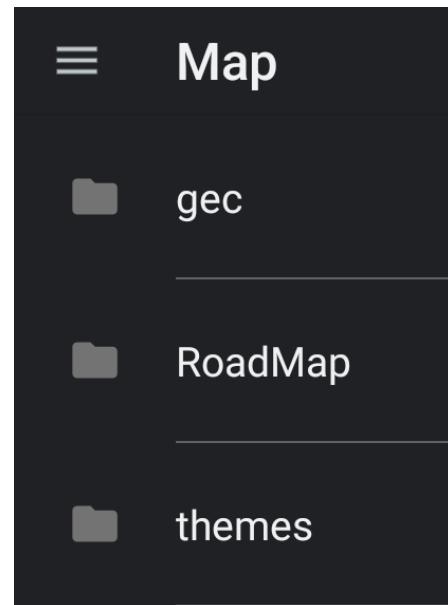
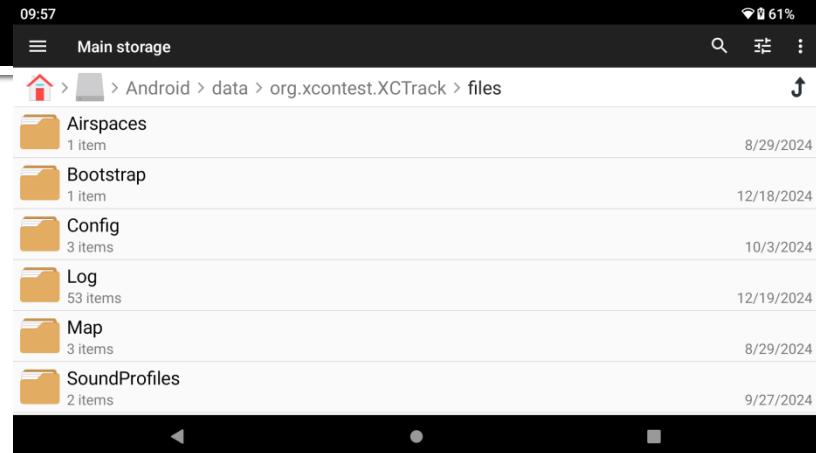
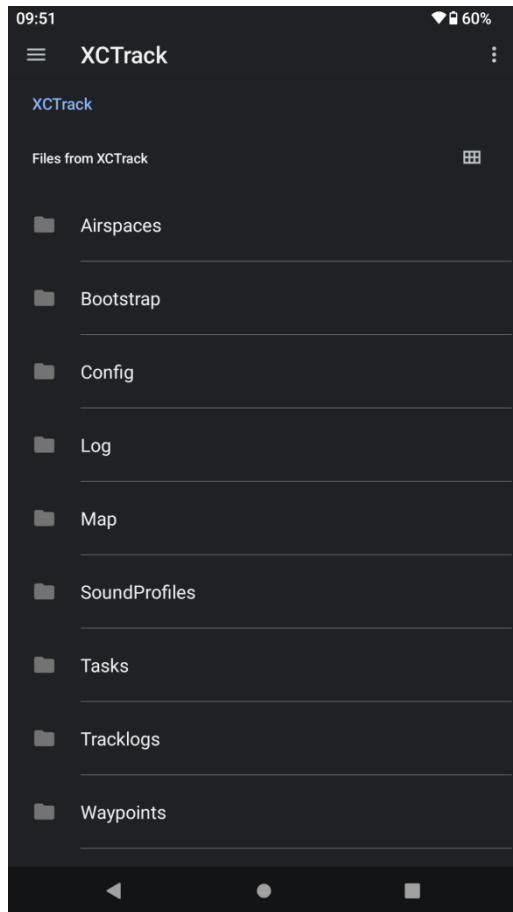
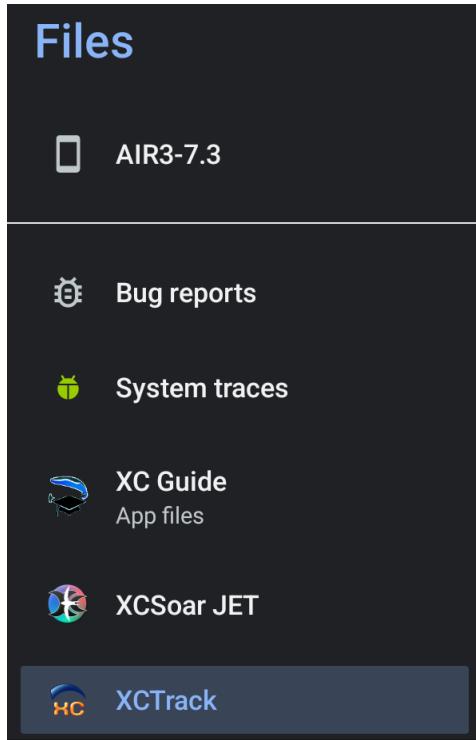
# Quit

- Without exiting via the menu (Android buttons  $\Delta$   $\circ$   $\square$  ), XCTrack will not close!



# Advanced XCTrack training

# XCTrack subfolders



# Review Maps widgets details



Widget: XC map

Draw border

Background transparency: 0%

Map configuration +

Postpone airspace showing +

XC map settings +

# Review Maps widgets details

## Map configuration

Road map and terrain style

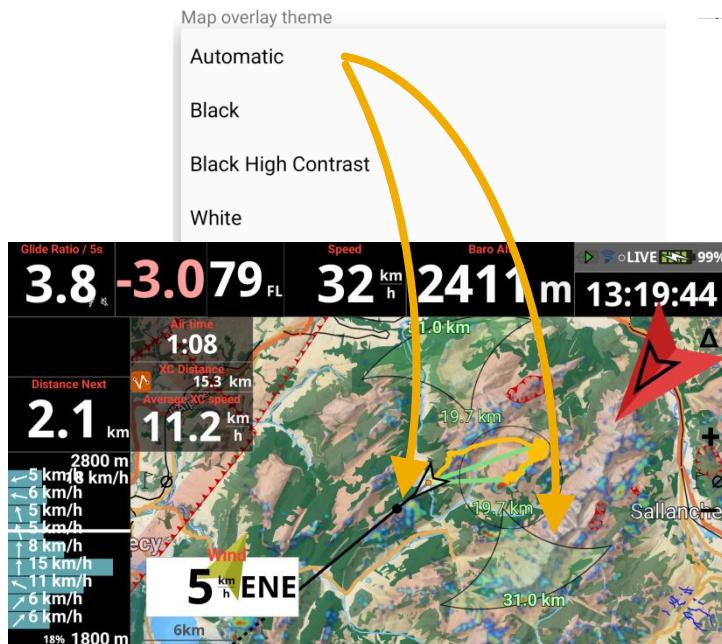
Custom style | DARK

To download/manage terrain data and road maps for your area, or set a custom style  
→ Maps → TERRAIN/ROAD MAP

Map overlay theme

Automatic

Widget: XC map



# Review Maps widgets details

← Widget: XC map

Rotation

North at the top

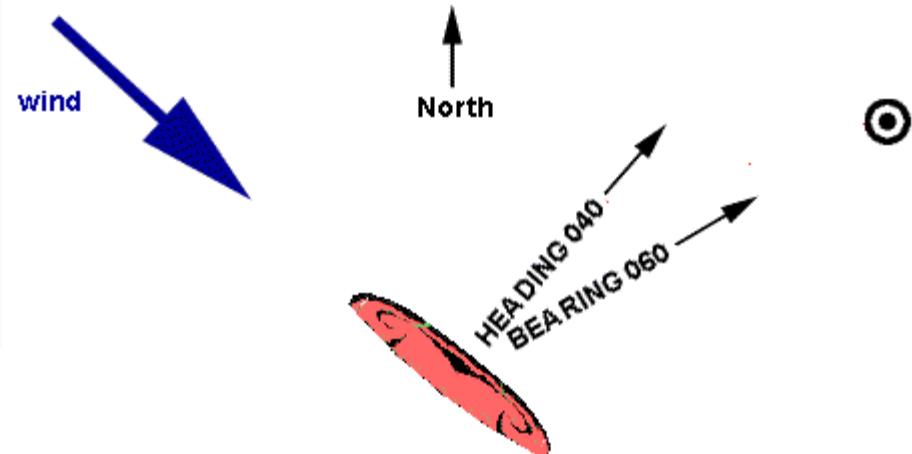
Navigation target at top

Bearing at top

Heading at top

Down wind direction at top

Travel direction at top



# Review Maps widgets details

10:54 100%

Widget: XC map

## Map configuration

North at the top

Display North direction

Map scale: 2500m

Autoscale to fit the whole tracklog

---

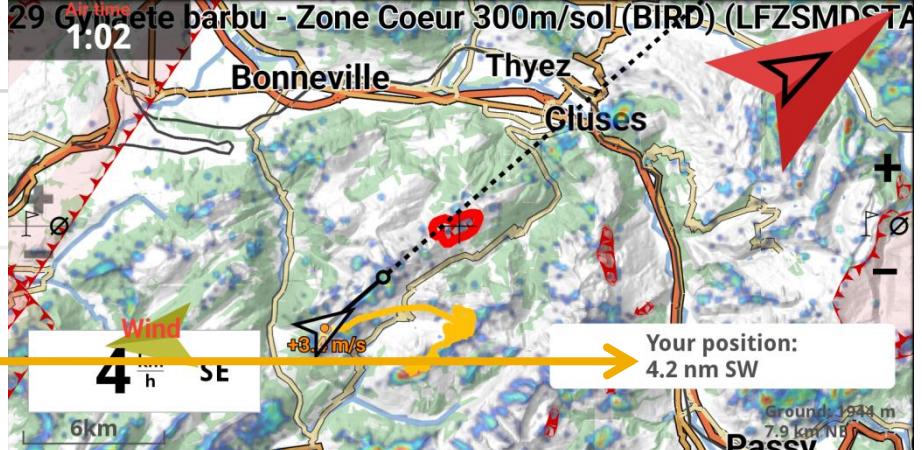
Keep pilot in the center of the screen

Distance from the edge: 30%

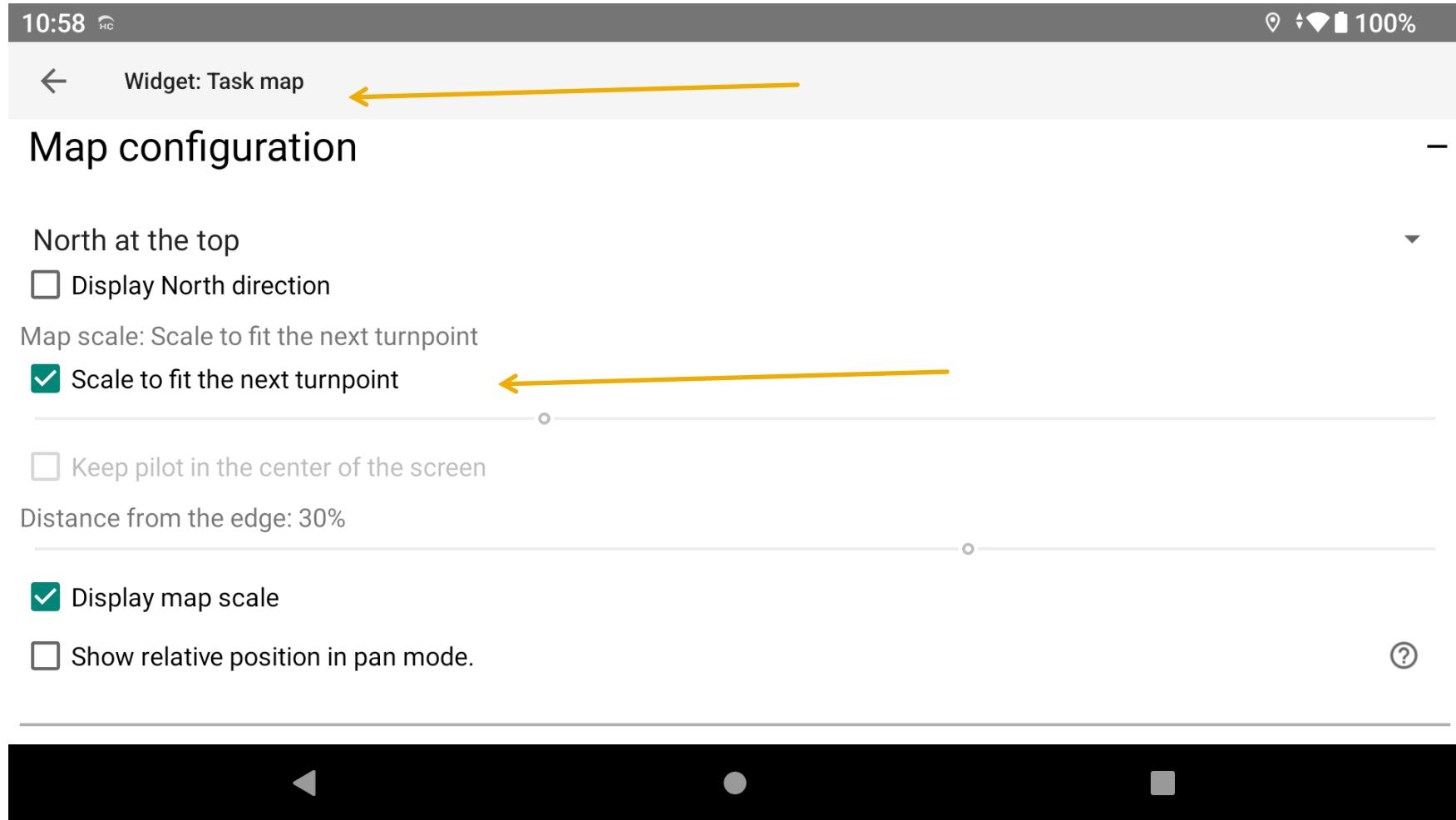
---

Display map scale

Show relative position in pan mode.



# Review Maps widgets details



10:58 100%  
Widget: Task map

## Map configuration

North at the top

Display North direction

Map scale: Scale to fit the next turnpoint

Scale to fit the next turnpoint

Keep pilot in the center of the screen

Distance from the edge: 30%

Display map scale

Show relative position in pan mode.

?

# Review Maps widgets details

## Widget: XC map

Map language

(default)

Display rain radar data Pro

Display basic thermal overlay (thermal.kk7.ch)

Thermal overlay opacity: 40% Pro

Display time adjusted thermal overlay Pro

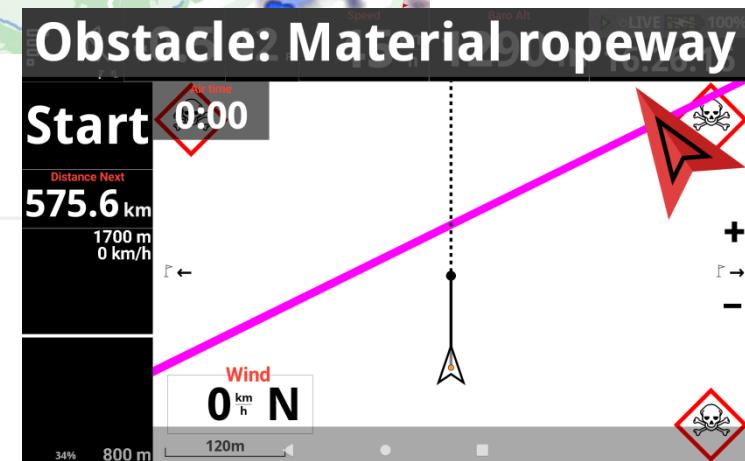
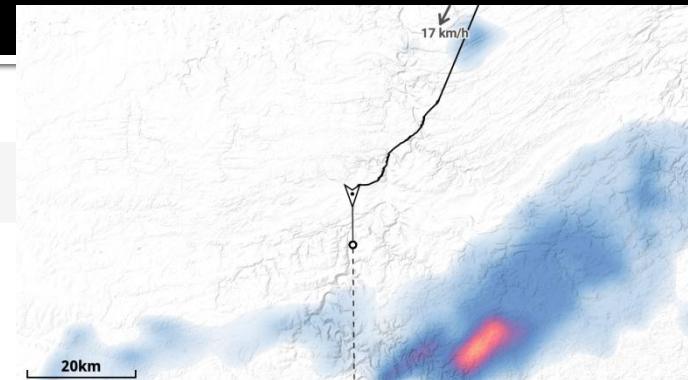
Time adjusted overlay opacity: 50% Pro

Display airspaces and obstacles

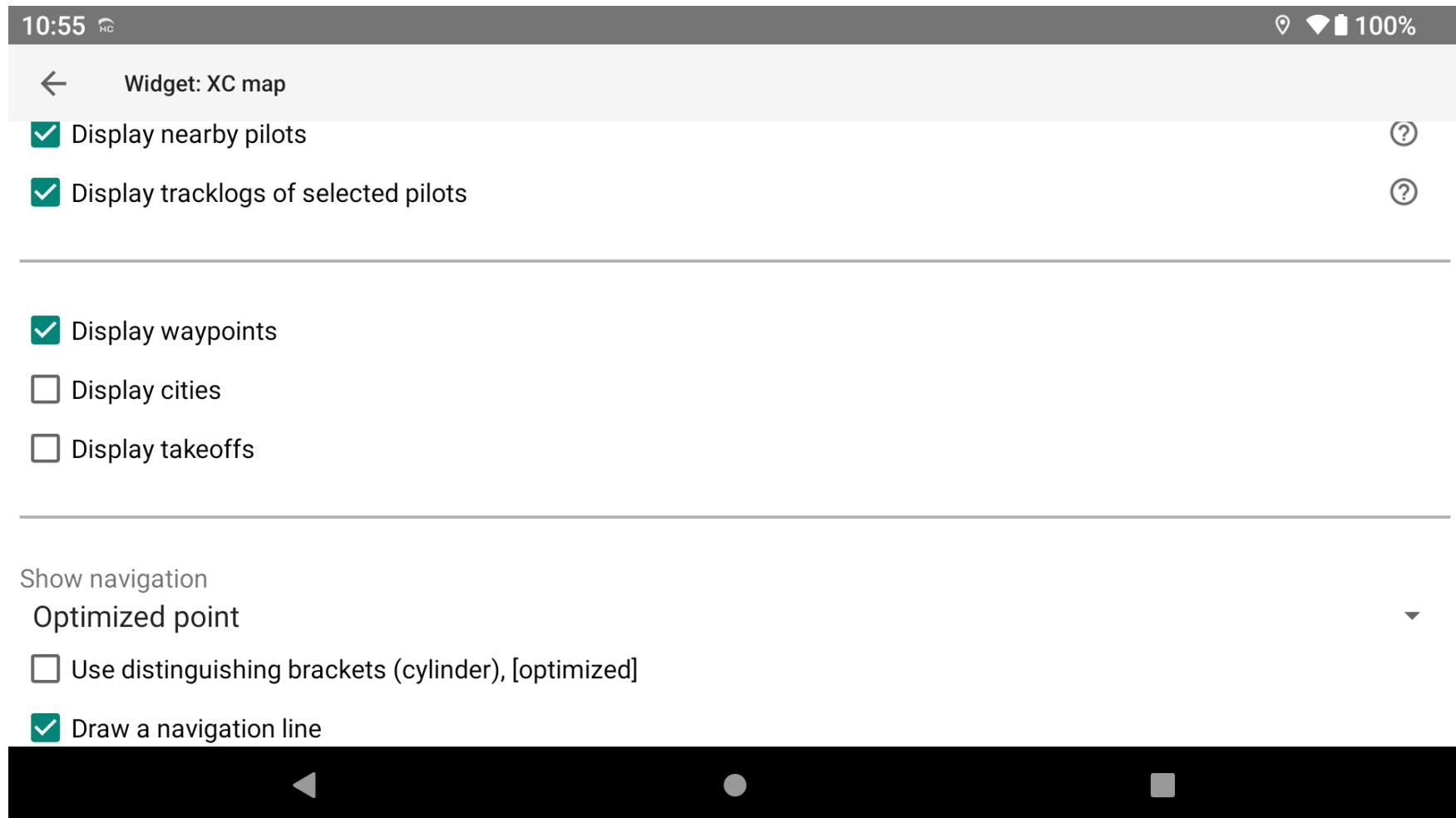
Show alert screen when approaching obstacle

Map scale: Automatic zoom in emergency obstacles mode

Automatic zoom in emergency obstacles mode



# Review Maps widgets details



10:55 100%

Widget: XC map

Display nearby pilots ?

Display tracklogs of selected pilots ?

---

Display waypoints

Display cities

Display takeoffs

---

Show navigation

Optimized point ▼

Use distinguishing brackets (cylinder), [optimized]

Draw a navigation line

◀ ● □

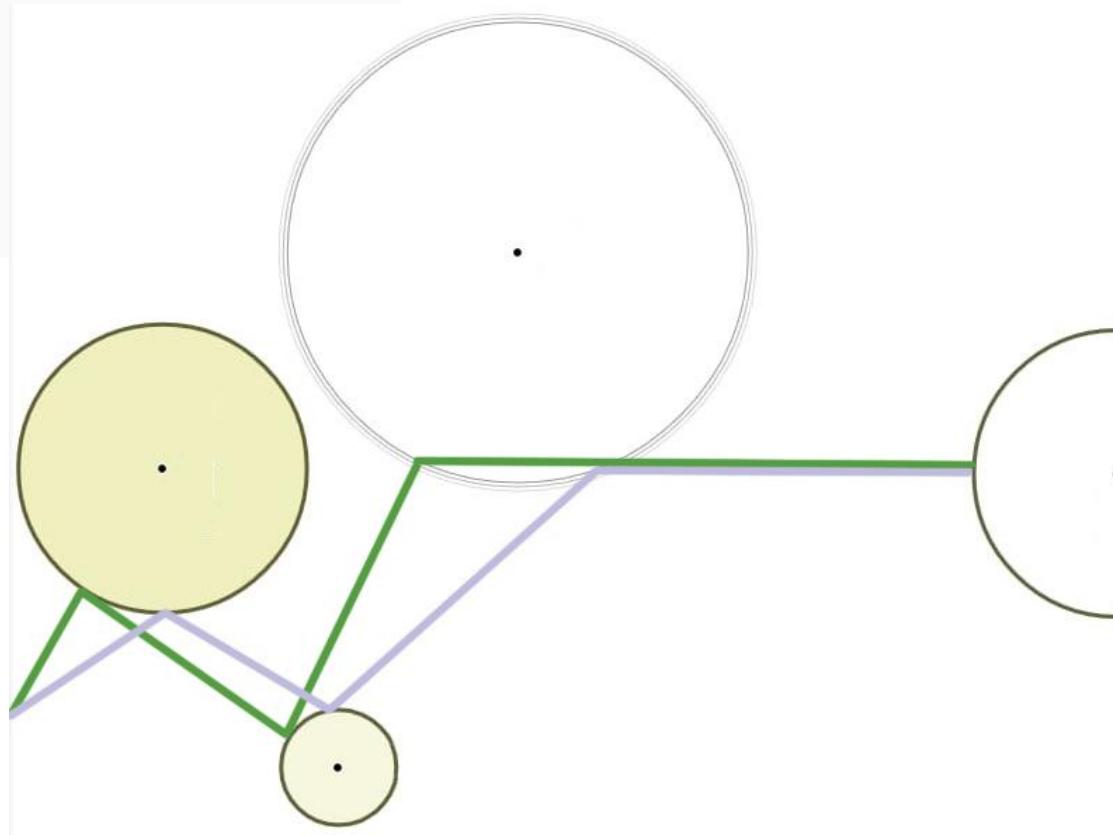
# Review Maps widgets details

Point

Optimized point

Cylinder (nearest point)

Do not use



# Review Maps widgets details

10:56 

Widget: XC map

Show 2 latest thermals

Show wind

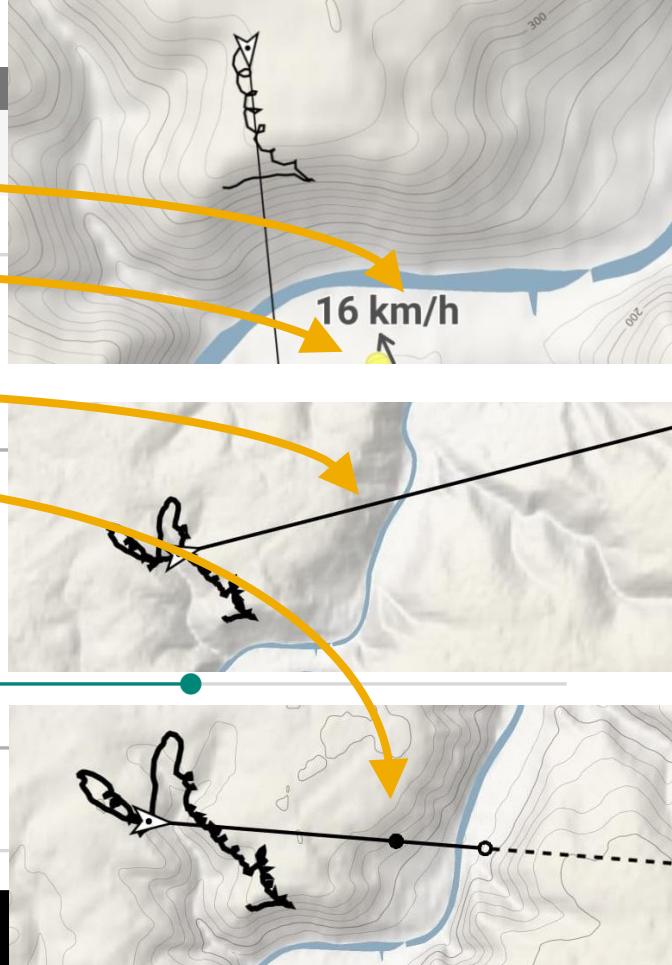
Show sun position

Show bearing (course) line

Mark glide distance

Glide averaging: 10 s

Thickness of lines: 2.5x



# Review Maps widgets details

10:56 100%

Widget: XC map

Color of the tracklog **Pro** 

Pilot arrow size coefficient: 150%

Font size  
Medium

Postpone airspace showing

Postpone showing of airspace, that has floor higher than: 3.0 km

Show postponed vertical airspace, if closer than: 300 m

XC map settings 

# Review Maps widgets details

10:57 

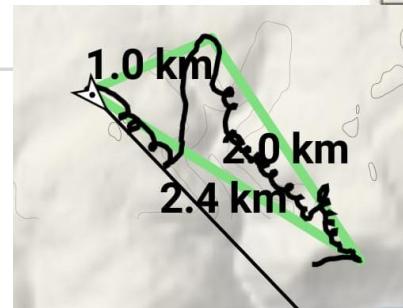
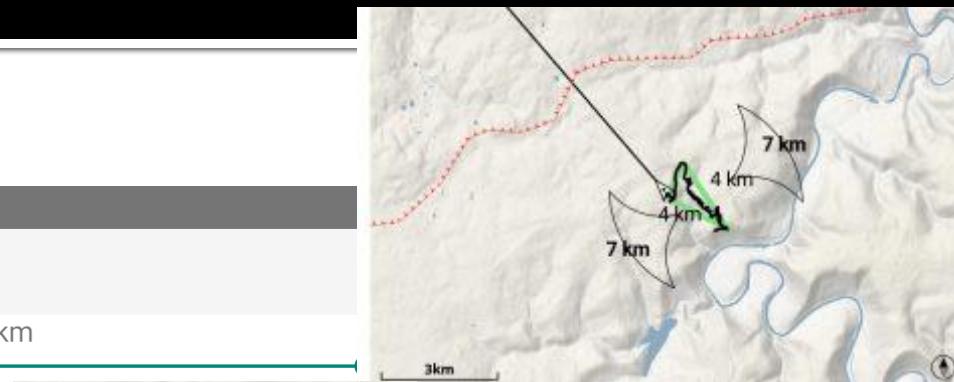
Widget: XC map

Postpone showing of airspace, that has floor higher than: 3.0 km

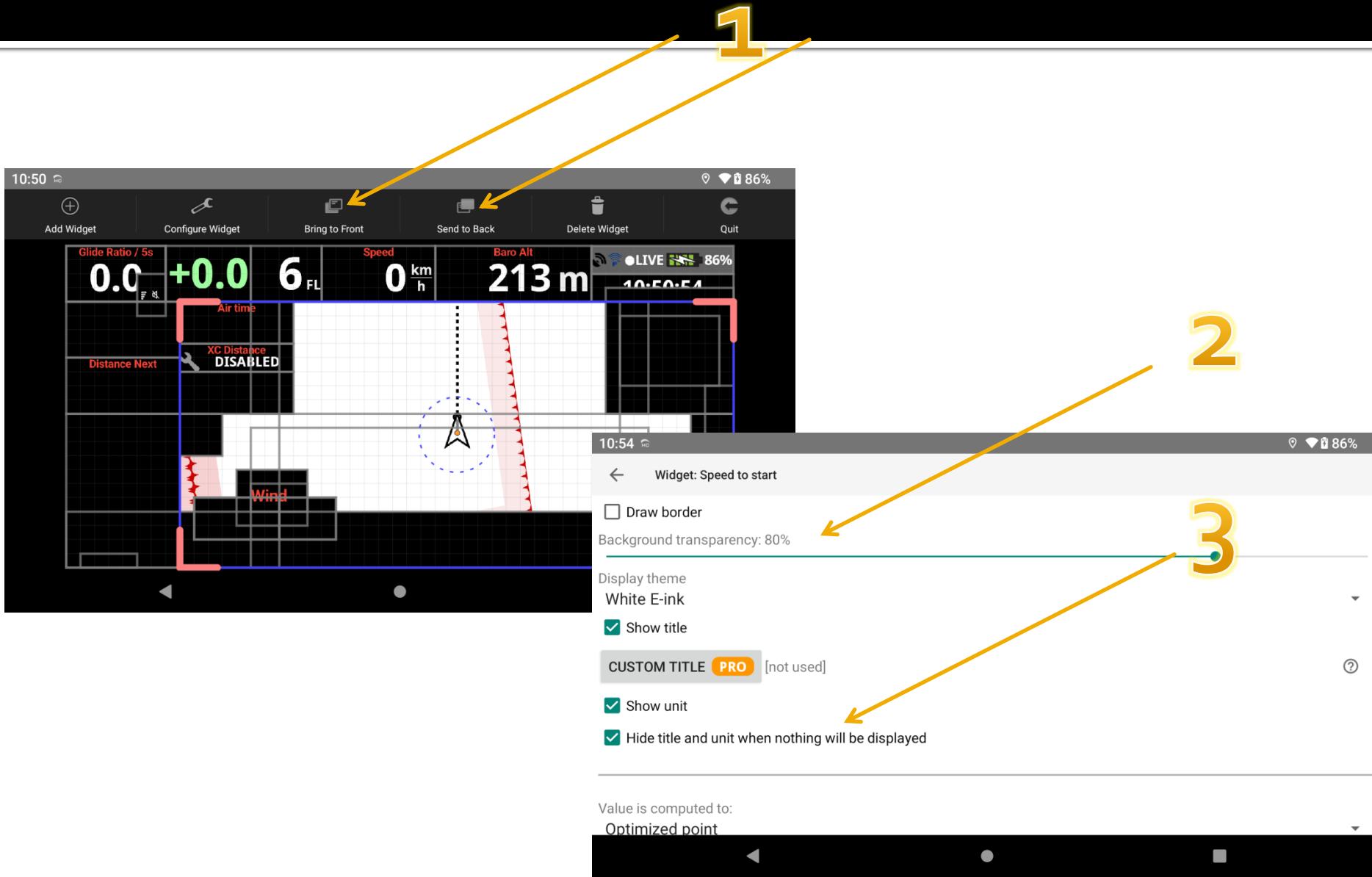
Show postponed vertical airspace, if closer than: 300 m

## XC map settings

- Display triangle/free flight route
- Display FAI triangle areas
- Show min/max triangle length for FAI areas
- Display leg distance
- Display leg percentage
- Display triangle closing circle



# Customized Layout

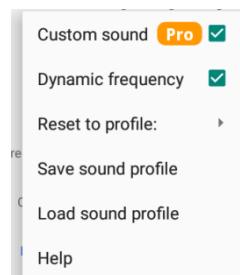
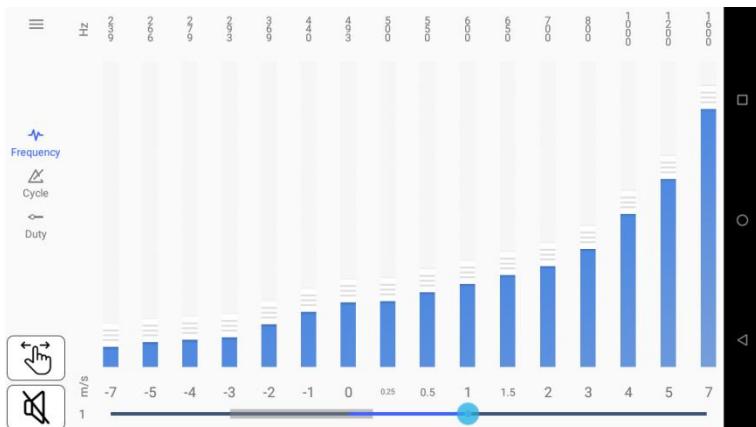


# Competition widgets

- Widgets before start
  - Time to start
  - Time at start
  - Speed to start
- Widgets during task
  - % of speed section
- Widgets before ESS/Goal (- 1000 m)
  - Distance, altitude over, Glide to ESS
  - Distance, altitude over, Glide to Goal

# Sound customization

- Weak lift
- Lift audio threshold
- Custom sound
  - Frequency
  - Cycle
  - Duty
- Dynamic frequency



The end....