



Training..... By Bertrand Fontaine (AIR³ 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

- ~~Opensource~~
- Xcontest = platform <-> XCTrack = App
- 2 versions:
 - Standard → Free
 - Pro: Check features details <https://www.fly-air3.com/en/software/xctrack-pro-air3/>
 - Perpetual licence (AIR³)
 - Monthly licence: user based
- 2 development channels
 - Standard
 - Beta (requires registration): still very stable

Introduction

- XCTrack for AIR³ = XCTrack for anyone, except :
 - Perpetual Pro licence
 - Special optimized configuration with 5 profiles
 - Specific feature for AIR³: Fanet and Flarm support
 - AIR³ XCT addon: additional features through events trigger
- Full online manual – Videos tutos –
Short videos – FAQ: <https://www.fly-air3.com/en/support/>

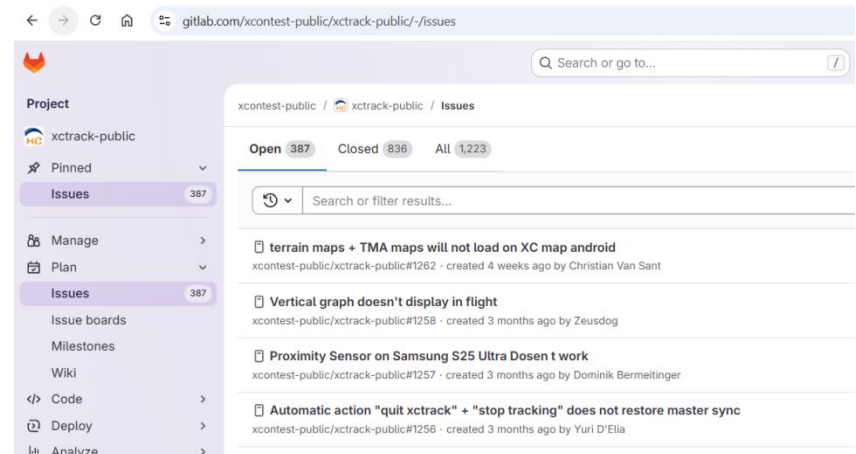
→ GOOGLE SEARCH!! Example: « XCTrack altitude statistics »

Introduction

- Want a new feature?

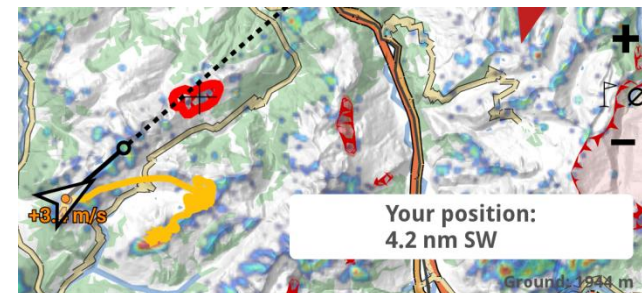
→ <https://gitlab.com/xcontest-public/xctrack-public/-/issues>

- 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 a 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



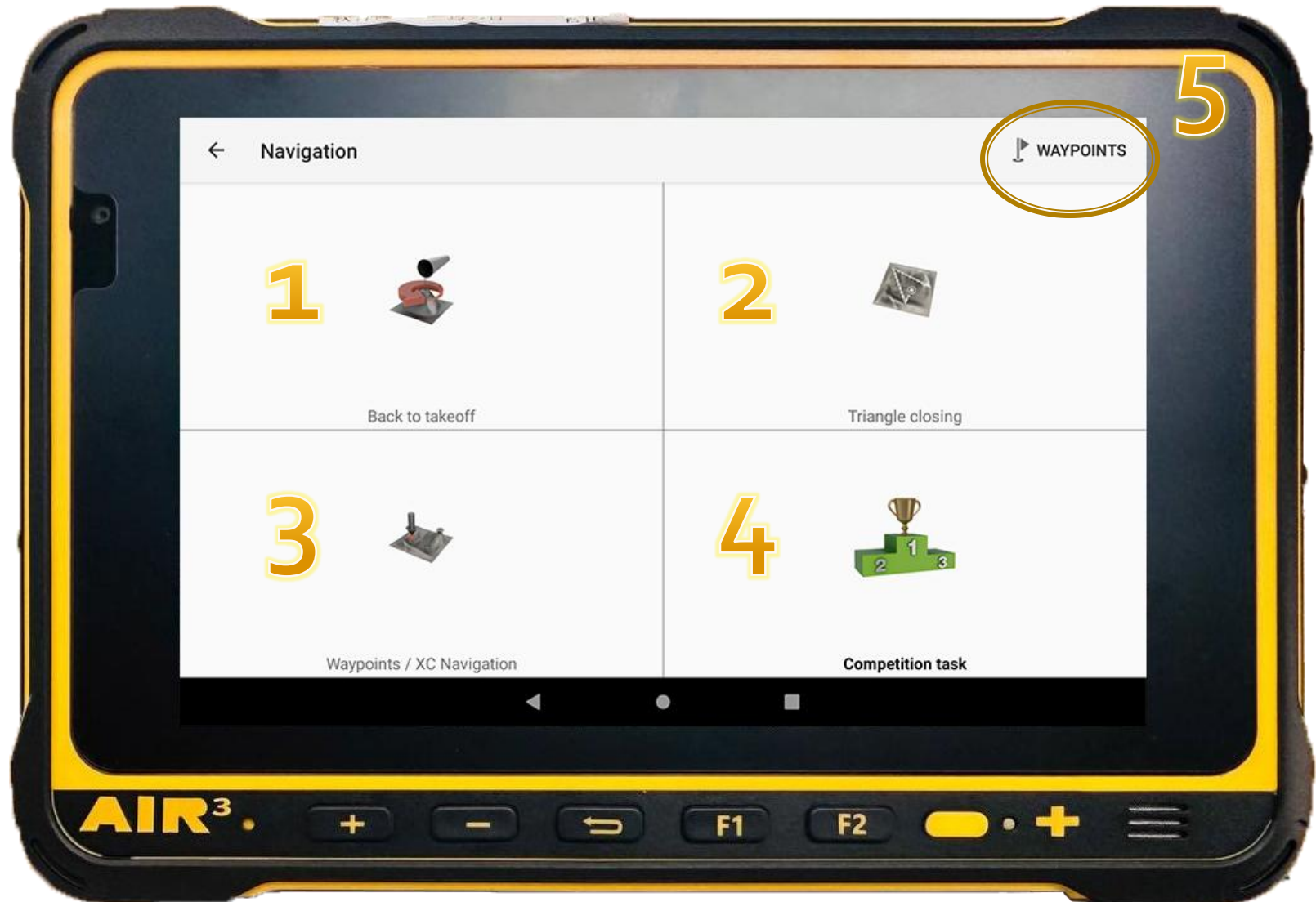
- Navigation
- Tracklog
- Customize - Widgets
- Preferences
- IGC replay*
- Livetracking*
- Quit

Tips

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

Navigation

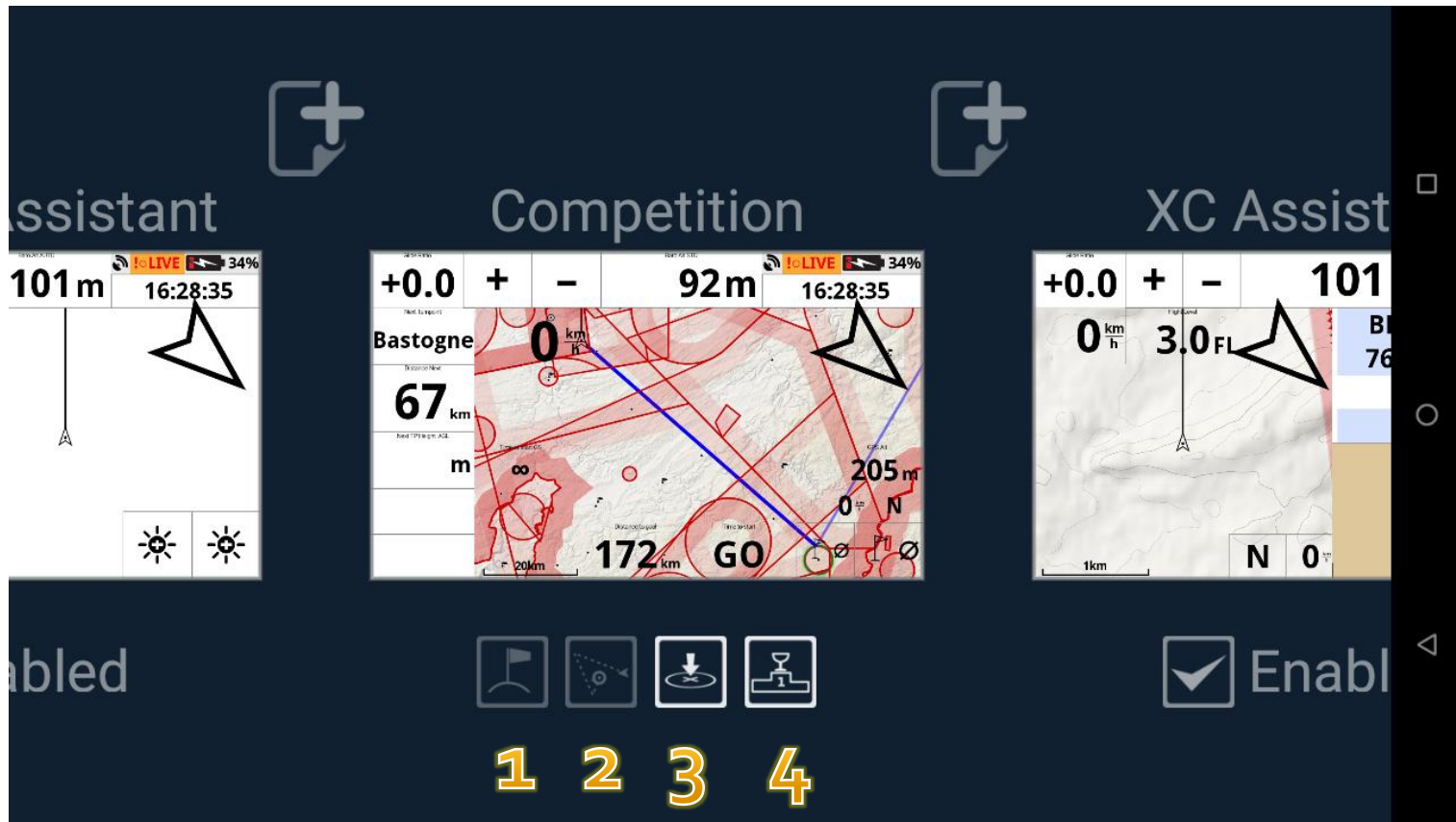
Navigation



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

WAYPOINTS FILES

Places

- ☒ Takeoffs
- ☒ Cities

Sort waypoints in list by:

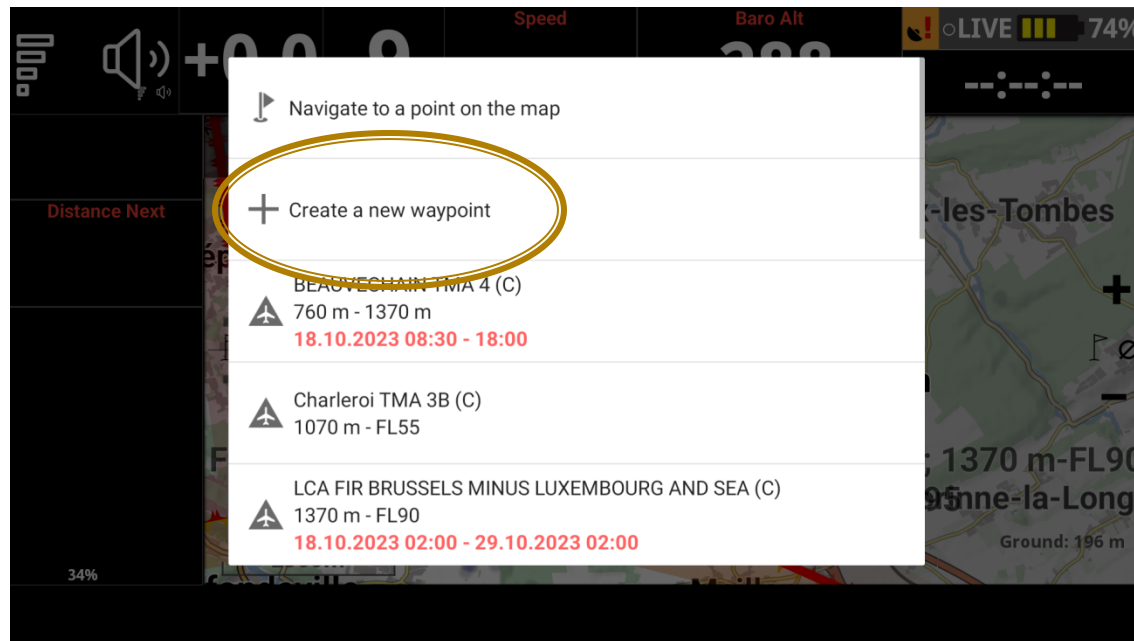
distance ▾

Files

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

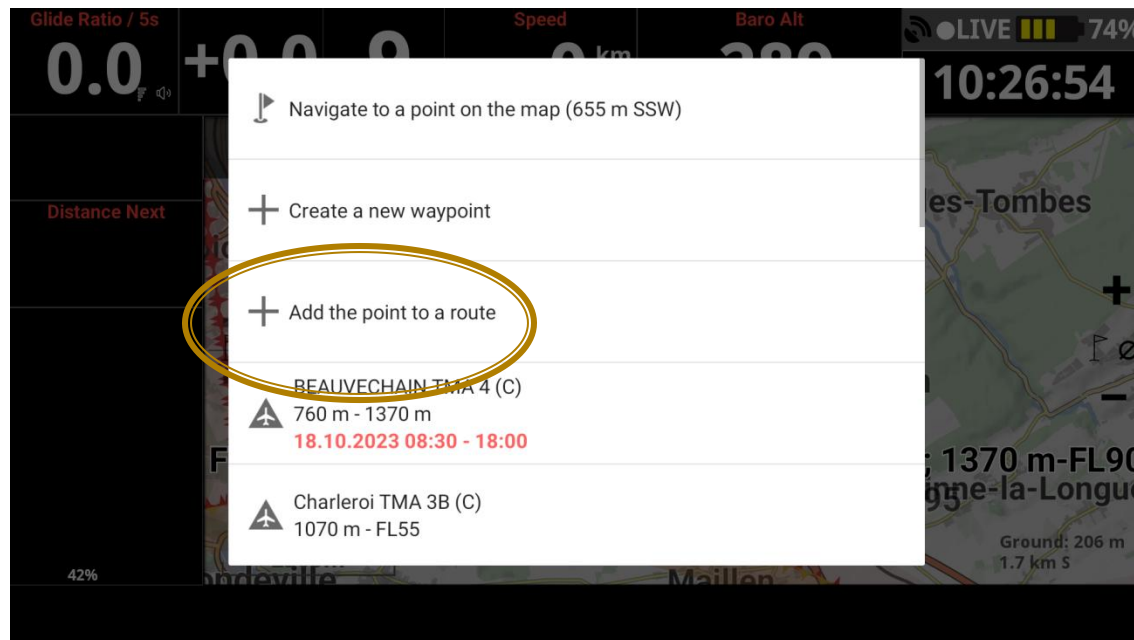
More details - How to (XCTrack)?

- 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

STATS

ROUTES

XCONTEST

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

Basics

Date2018-05-11 10:42

PilotBertrand Fontaine

GliderBGD Lynx

Flight

Duration4 hours 36 min

Tracklog length189.2 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. altitude1719 m

Max. alt. gain1360 m





Elevation drop298 m

Takeoff

Name

Device




Track- Routes

Tracklog details		2			
		STATS	ROUTES	XCONTEST	
Straight distance					
Total			131.6 km		
Distance over 3 turnpoints					
	Total		136.0 km		
	Legs		2.4 km (1.8%)		
			1.6 km (1.2%)		
			102.0 km (75.0%)		
			29.8 km (22.0%)		
FAI triangle					
	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%)		
Flat triangle					
	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)

Glider

FLOW PARAGLIDERS Mystic

Country (launch)

Belgium [BE]

Launch

Les Sept Meuses ~0.05 km

Comment (flight description)

The start of the season

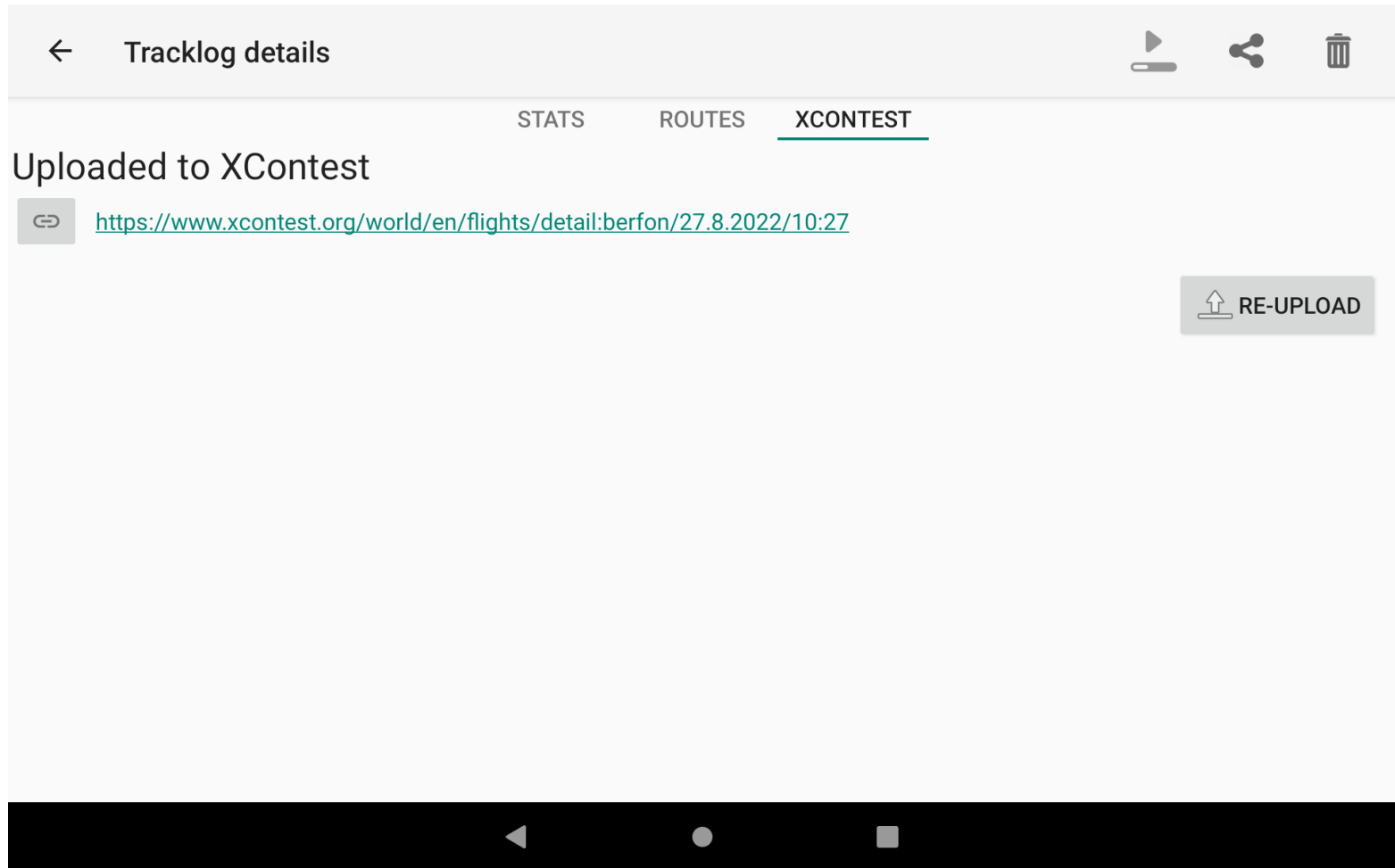
www

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



SAVE

Track-Xcontest-done



Track-Xcontest-link

18:30 4G+ 92%

Index of /Latest_Soft... Flight detail : Bertran...

<https://www.xcontest.org/world/en/flights/detail:berfon/9.10.2022/>

LIVE! (7)

Daily score PG

Daily score HG/RW

Daily Hot-Spots PG

Ranking categories

PG Open

PG Serial

PG Sport

PG Standard

PG Women

PG Tandem

HG (FAI-1) Open

RW (FAI-2) Open

RW (FAI-5) Open

PG national teams

HG/RW national teams

Club 100kt+ & more

Flight detail : Bertrand Fontaine

date : 09.10.2022 14:15 -UTC+02:00

launch : Les Sept Meuses

route : 12.56 km 12.56 p.

glider : FLOW Fusion Light

airtime : 1:42 h 7.46 km/h

IGC file Google Earth

Flight | **Route** | **Start** | **Land**

airtime : 1:42:03 h

max. altitude : 1174 m

max. alt. gain : 933 m

max. climb : 2.8 m/s

max. sink : 3.3 m/s

tracklog length : 47.043 km

free distance : 5.85 km / 12.56 km

Track-Xcontest-logbook

X Contest 2019

User: **berfon**
[::LogOUT::](#)

[WORLD Xcontest](#)
[NATIONAL XContests](#)
[XCTrack](#)
[Airspace](#)
[Paramotors](#)

Belgian Paragliding Cup 2019
[Flights](#)
[Daily score PG](#)
[Ranking](#)
[Overall](#)
[Performance](#)
[Sport](#)
[Standard](#)
[Club 100k+](#)
[Pilots](#)
[Rules](#)

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» [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 12:30	FR Mont Lachat ✓		60.80 km	60.80 p.		10.04. 06:00		?	
2	15.09.19 UTC+02:00 16:31	FR Fumay ✓		6.17 km	8.64 p.		15.09. 16:51		?	
3	14.09.19 UTC+02:00 16:02	BE Andenne ✓		13.59 km	13.59 p.		14.09. 14:59		?	
4	02.09.19 UTC+02:00 18:35	FR Fumay ✓		5.13 km	7.18 p.		02.09. 17:25		?	
5	02.09.19 UTC+02:00 14:22	FR Fumay ✓		45.62 km	45.62 p.		02.09. 14:59		?	
6	25.08.19 UTC+02:00 12:45	FR Revin ✓		57.86 km	57.86 p.		25.08. 16:28		OK	
7	24.08.19 UTC+02:00 14:20	BE Les Sept Meul... ✓		9.31 km	9.31 p.		24.08. 13:03		?	
8	22.08.19 UTC+02:00 14:24	FR Revin ✓		35.47 km	42.56 p.		22.08. 14:10		?	

My Contest Menu:

- [My profile](#)
- [Flight claim](#)
- [My flights](#)

AIR³

WWW.FLY-AIR3.COM

BVVF

FBVL

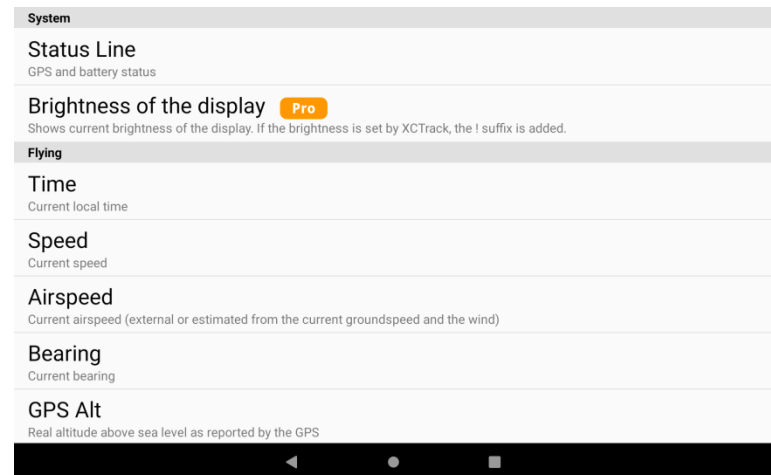
Customize

Customize



More details - How to (XCTrack)?

- Customize the layout
 - Add /Delete/Resize/Move/Configure widgets
 - Portrait \neq 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



← Widget: XC map

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: XC map

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



Widget tip: thermal map



Widget: XC map

Map language (default)

☒ Display rain radar data Pro

☐ Display basic thermal overlay (thermal.kk7.ch) ?

Thermal overlay opacity: 40% Pro

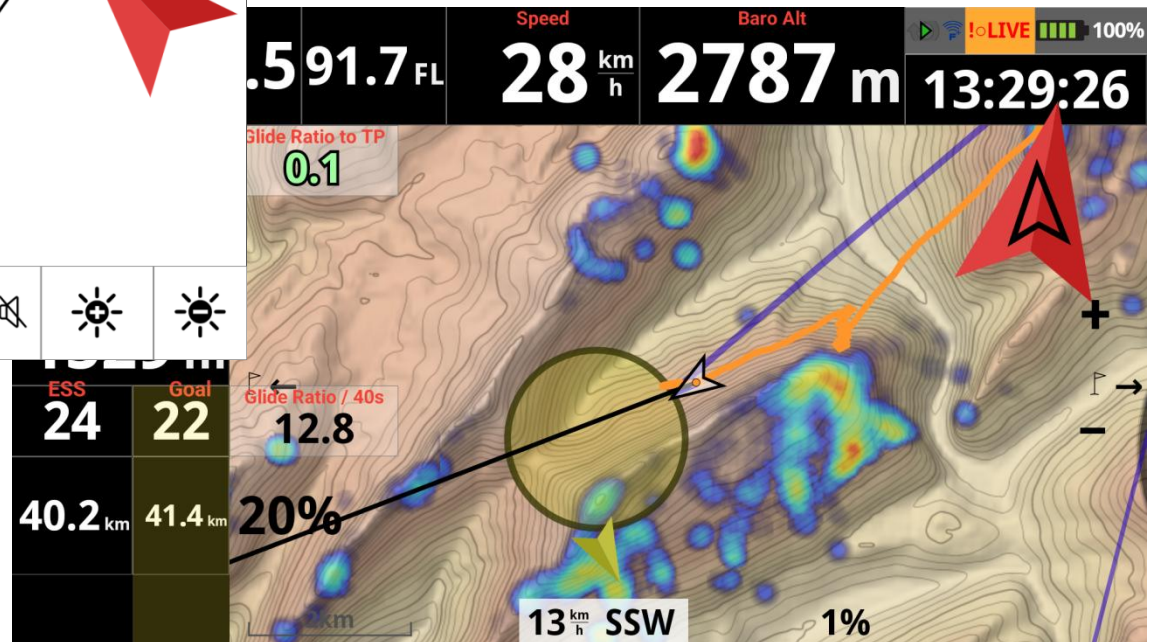
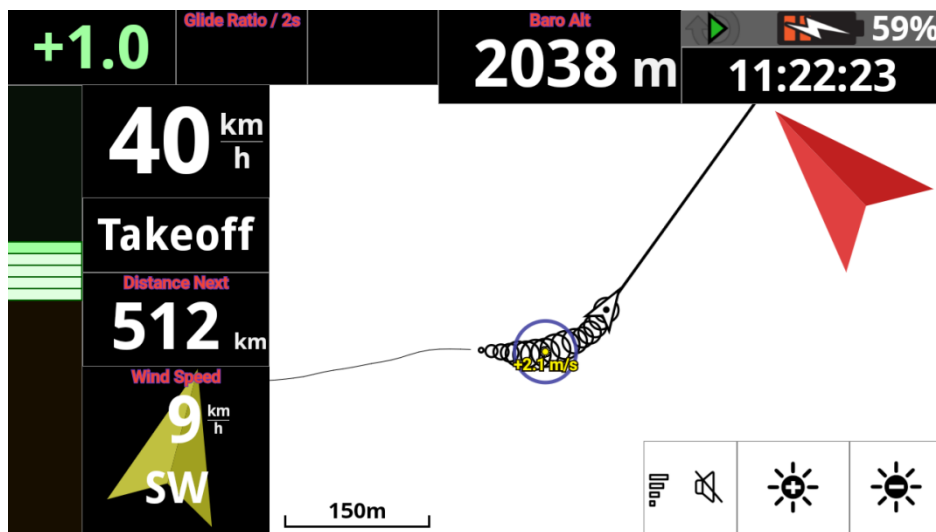
☒ Display time adjusted thermal overlay Pro ?

Time adjusted overlay opacity: 50% Pro

☒ Display airspace and obstacles

More details - How to (XCTrack)?

- Thermal assistant Vs. Thermal map



Preferences

Preferences (settings)



Pilot



Aircraft



Livetracking



XC Disciplines and Competition



Altimeter/QNH settings



Airspace



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

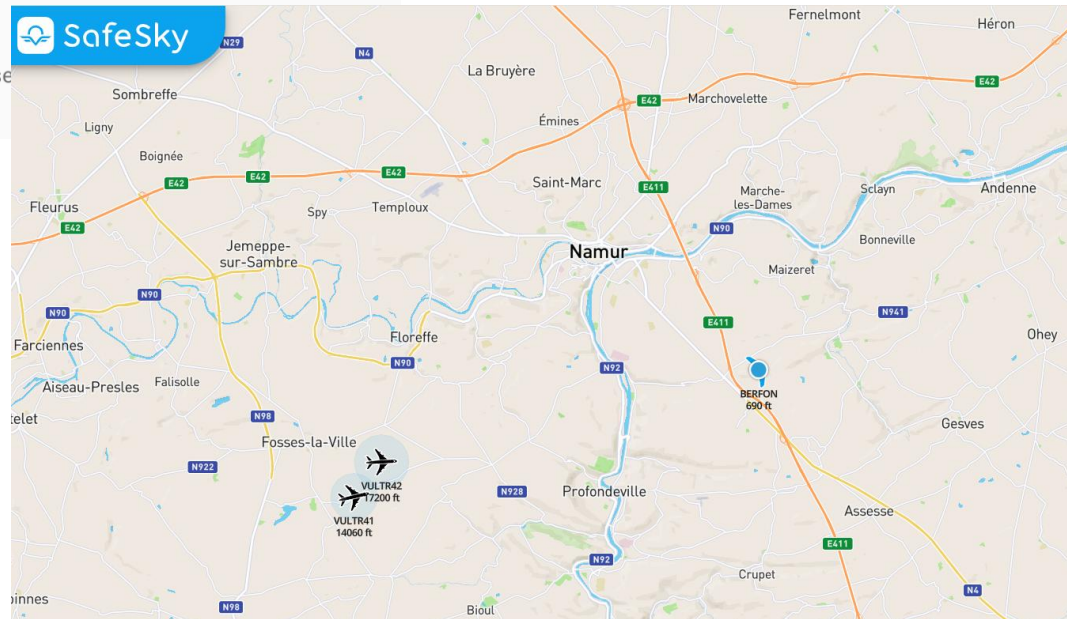


Send location data every

5 seconds

Anonymous mode **Pro**

In anonymous mode no call-sign is registered with SafeSky. By default, XContext 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 screenshot shows the 'Maps' settings screen in the XCTrack app. The 'ROAD MAP' tab is selected. A list of maps is shown, including 'Albania (20.2MB)', 'Andorra (8.1MB)', 'Austria (50.0MB)', 'Belarus (52.6MB)', '✓ Belgium (20.2MB)', and 'Bosnia and Herzegovina (25.8MB)'. A yellow arrow points from the 'MANAGE MAPS' button to the 'XCTrack Road Maps' screen. Another yellow arrow points from the 'CLEARPILOT-AIR3-BIG-CITIES.XML' map to the 'Internal storage' list.

Maps

TERRAIN ROAD MAP

MANAGE MAPS

CLEARPILOT-AIR3-BIG-CITIES.XML

Information about maps and themes:
<http://xctrack.org/AboutMaps.html>

XCTrack Road Maps

Internal storage

1

2

4

3

5

6

Alternative download: OpenAndroMaps.org (Europe, Other maps) and others.

Flight Data:

- Glide Ratio / 5s: 4.1
- Air time: 1:17
- Speed: 43 km/h
- Baro Alt: 2828 m
- TP01: 699 m
- Distance Next: 699 m
- Wind: 13 km/h SSW

Map Data:

Map Name	Size	Date
Austria_ML.map	944 MB	(2025-03-19)
Belgium_ML.map	369 MB	(2025-03-19)
France_North.map	1422 MB	(2025-03-19)
France_South.map	1704 MB	(2025-03-19)
Italy.map	1444 MB	(2025-03-19)
Spain_Portugal.map	1340 MB	(2025-03-19)
Switzerland_ML.map		

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

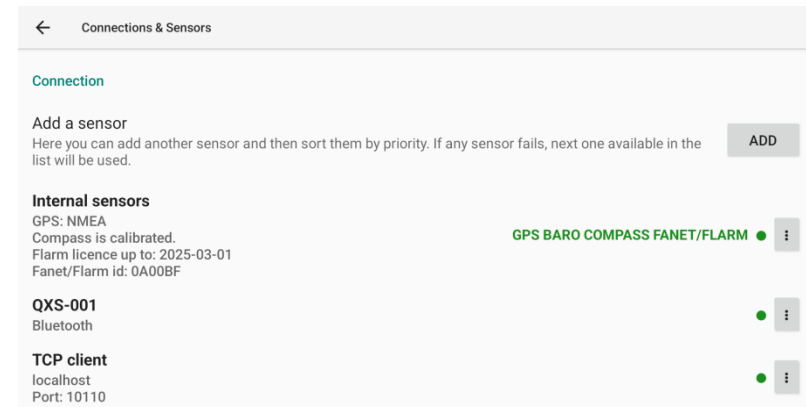
- Select action – press the key

- Automatic actions

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

- Connections & Sensors

- Internal sensors (GPS, Baro, Flarm/Fanet (AIR³)
 - 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 ●

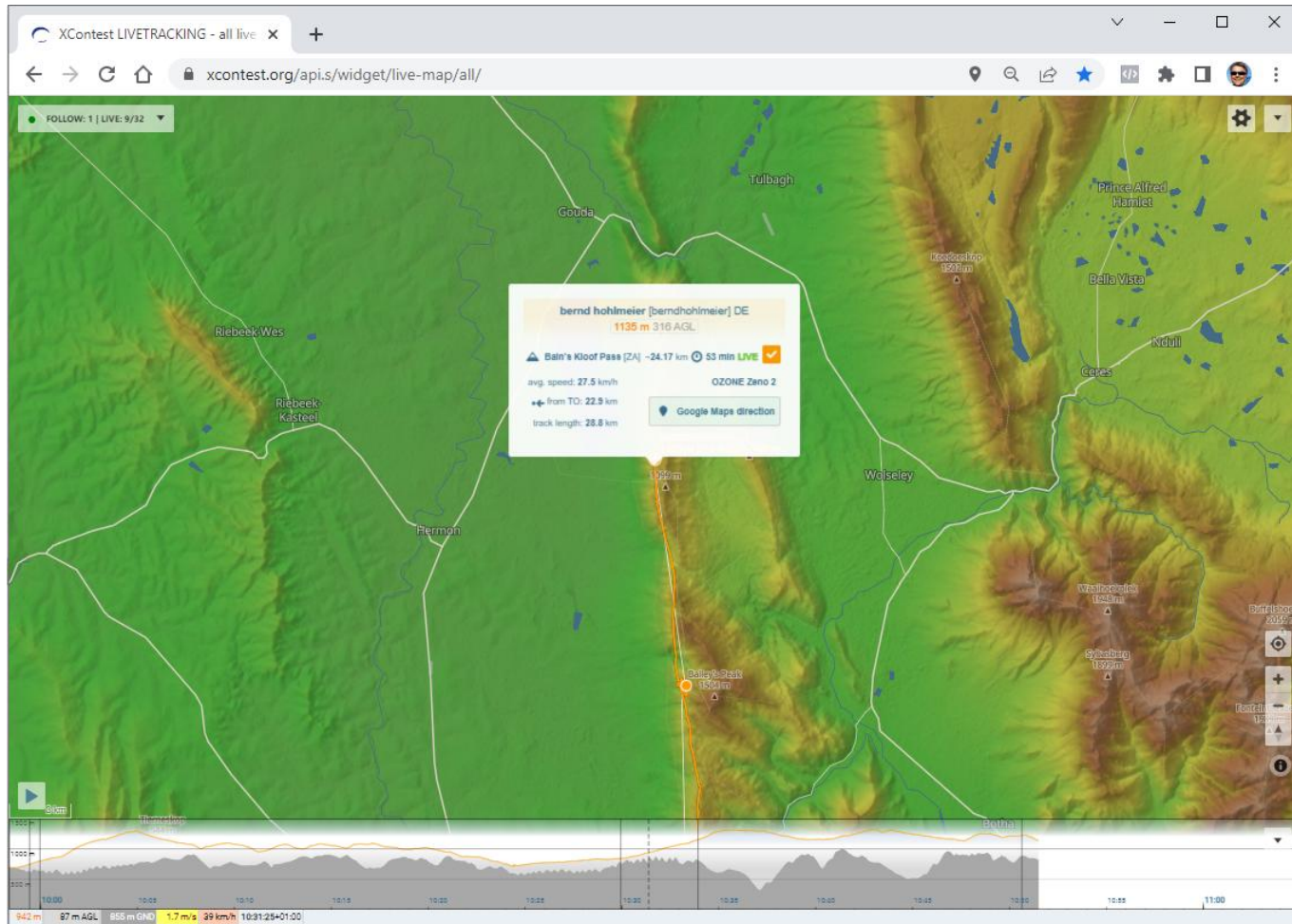
air3.21005 FLOW PARAGLIDERS Fusion Light

?

Livetracking - XCTrack



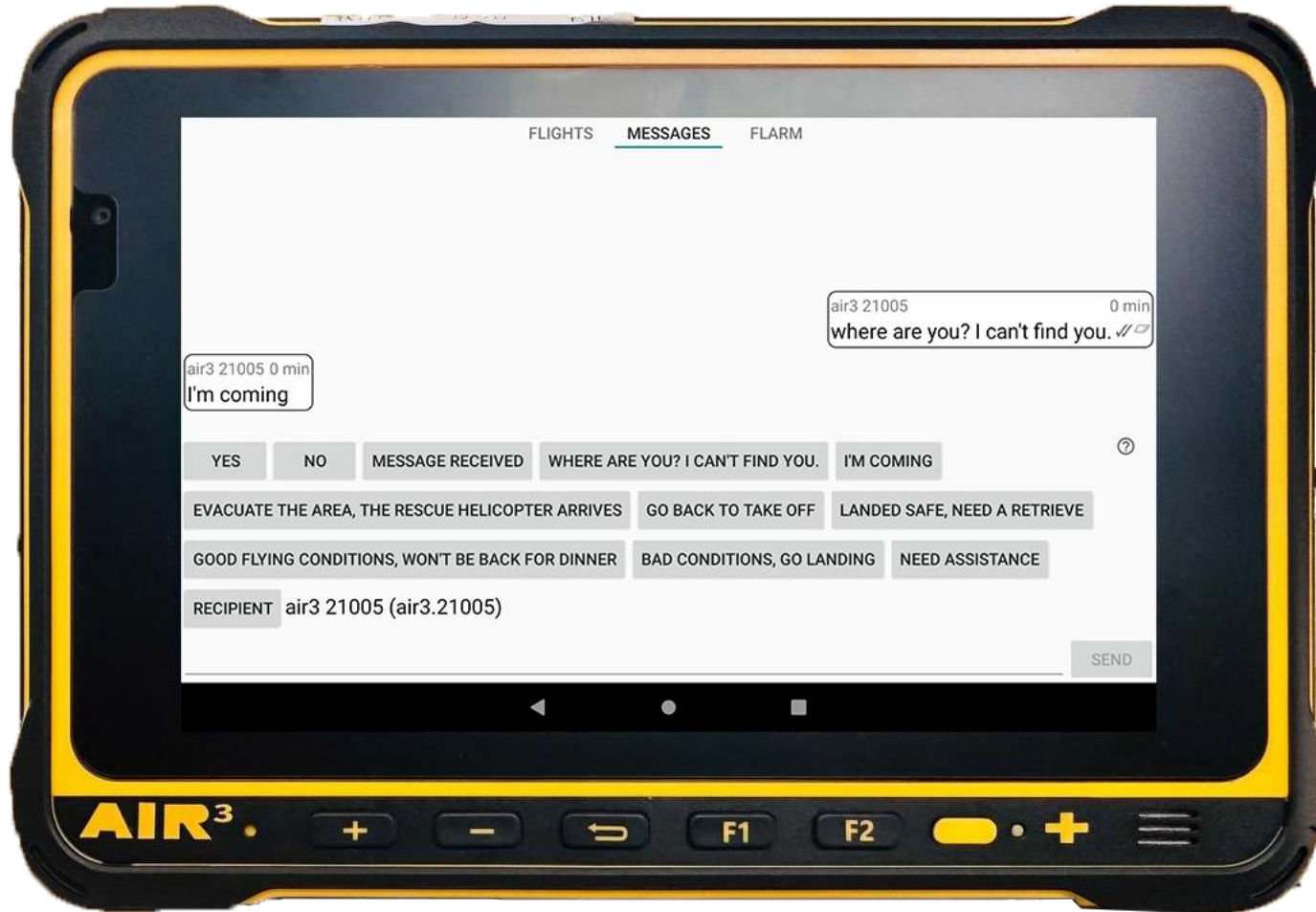
Livetracking - Xcontest



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 Δ \bigcirc \square), XCTrack will not close!



Advanced XCTest training

XCTrack subfolders

Files

AIR3-7.3

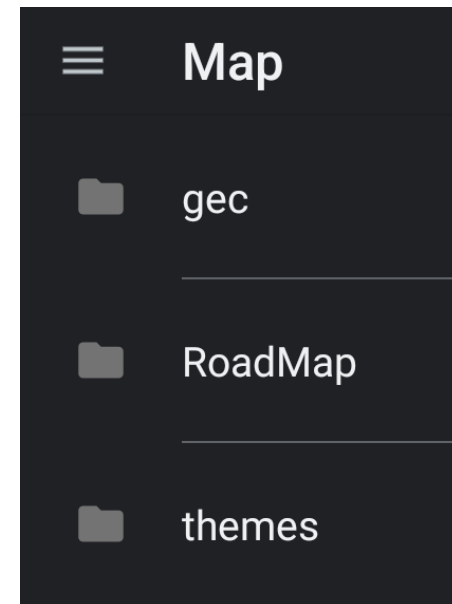
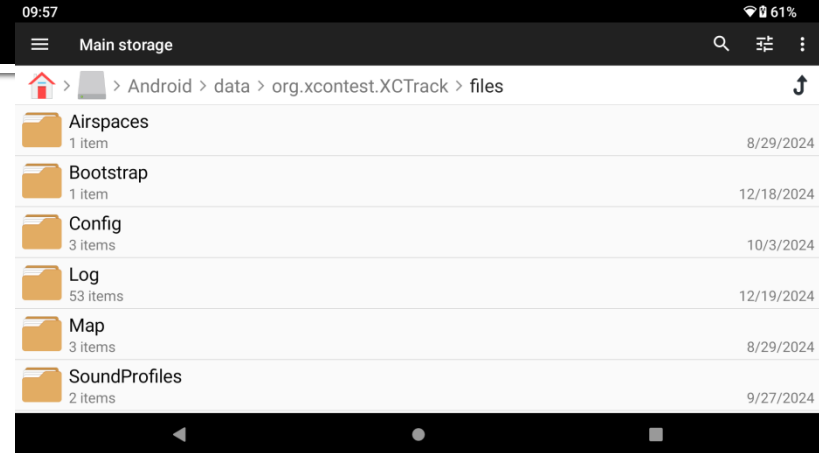
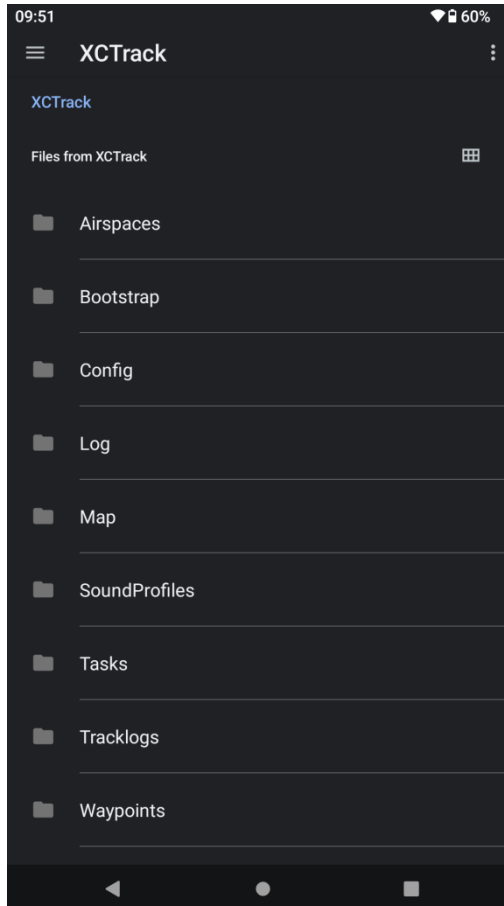
Bug reports

System traces

XC Guide
App files

XCSoar JET

XCTrack



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 i
→ Maps → TERRAIN/ROAD MAP

Map overlay theme

Automatic

Widget: XC map

Map overlay theme

Automatic

Black

Black High Contrast

White

Map configuration

Road map and terrain style

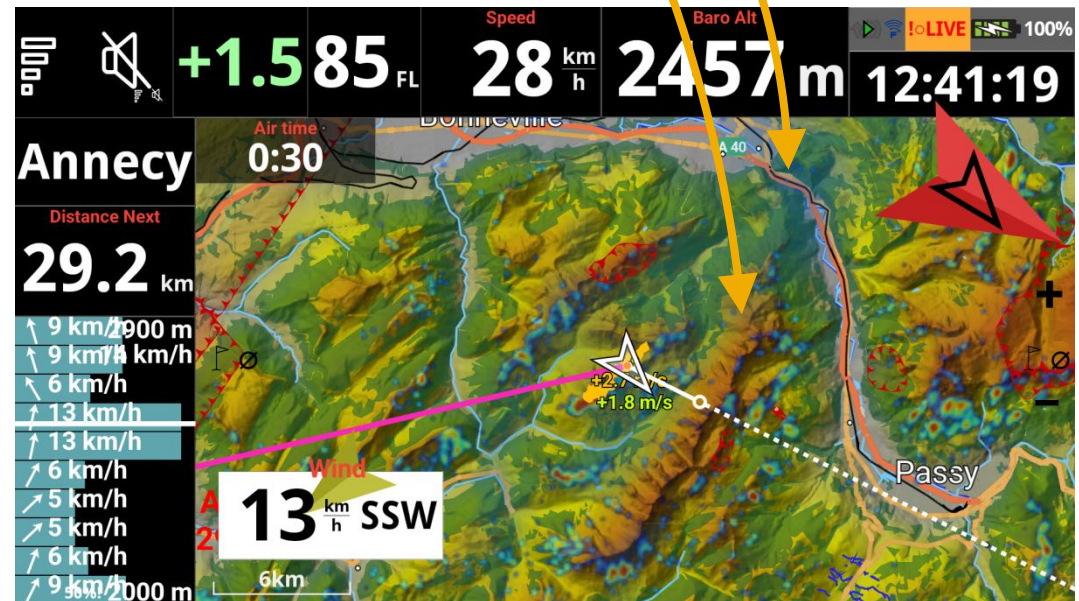
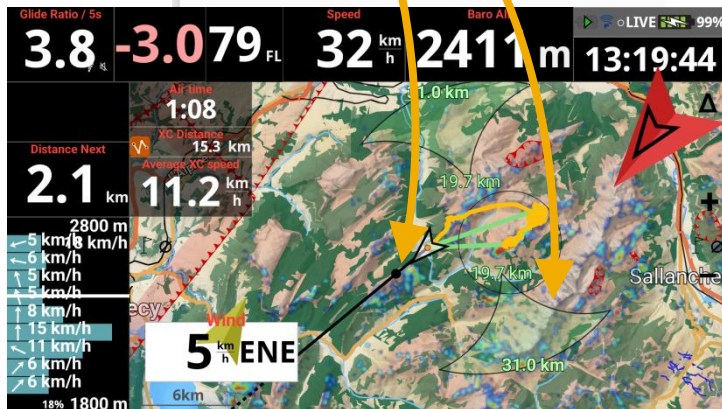
▼ Featured styles with relief **Pro**

▼ Extra styles with relief **Pro**

▼ Classic styles (hillshading)

▼ Relief only

Empty map



Review Maps widgets details



Widget: XC map

Rotation

North at the top

Navigation target at top

Bearing at top

Heading at top

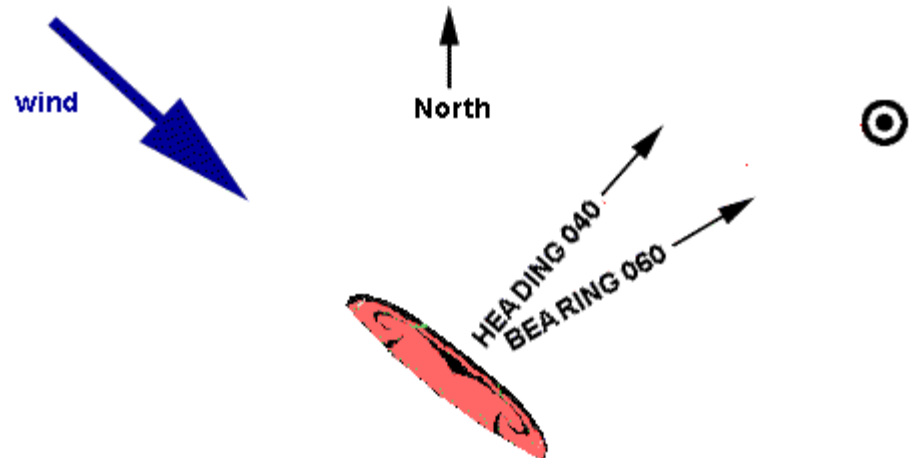
Down wind direction at top

Travel direction at top


wind




North


HEADING 040
BEARING 060



Review Maps widgets details

10:54 

   100%



Widget: XC map

Map configuration

North at the top

☐ Display North direction

Map scale: 2500m

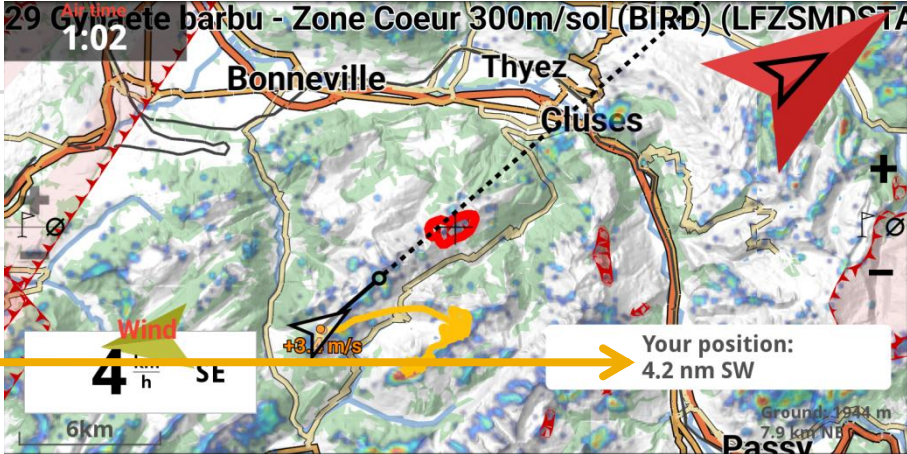
☐ Autoscale to fit the whole tracklog

☒ Keep pilot in the center of the screen

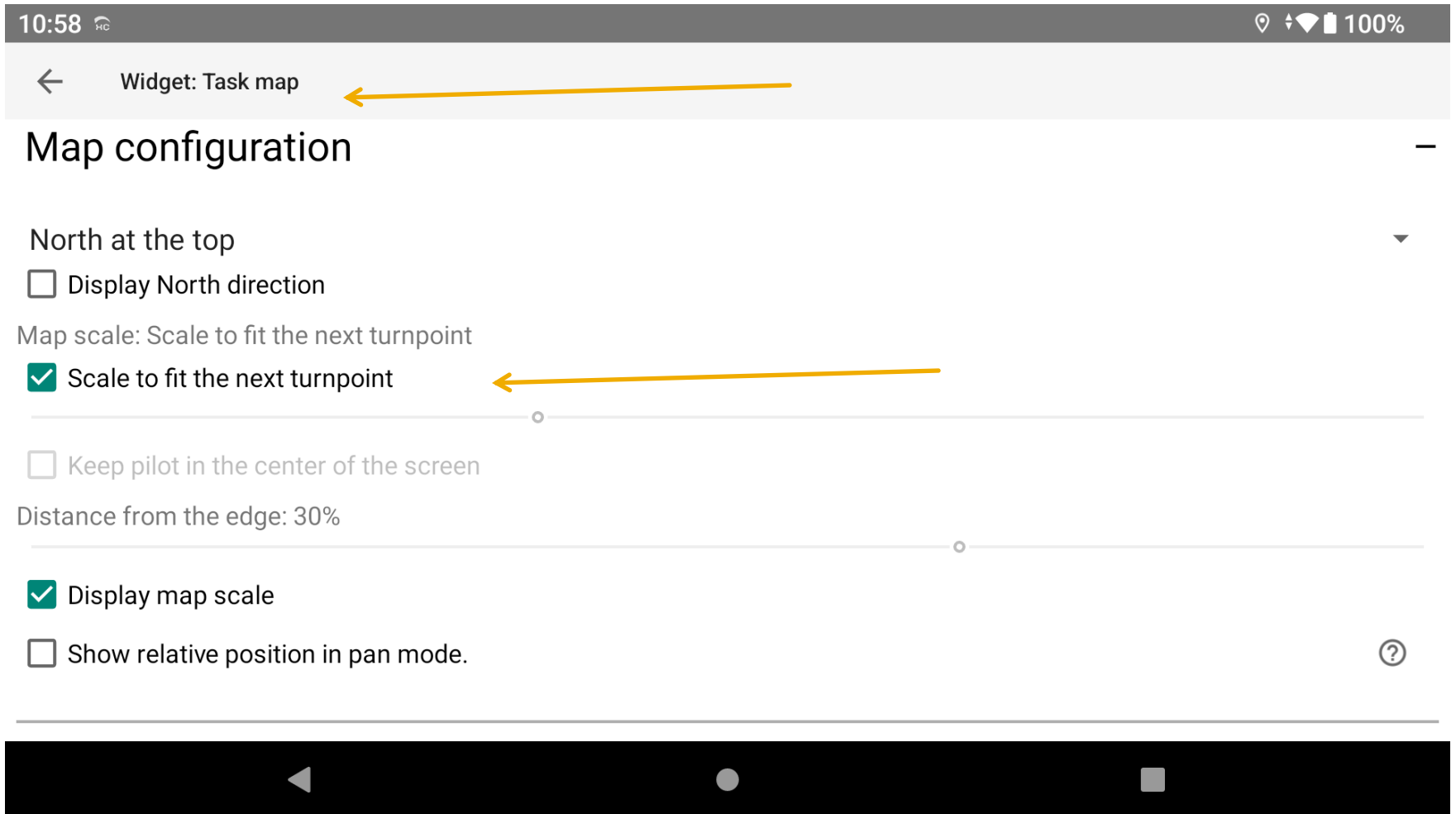
Distance from the edge: 30%

☒ Display map scale

☒ Show relative position in pan mode.



Review Maps widgets details



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**

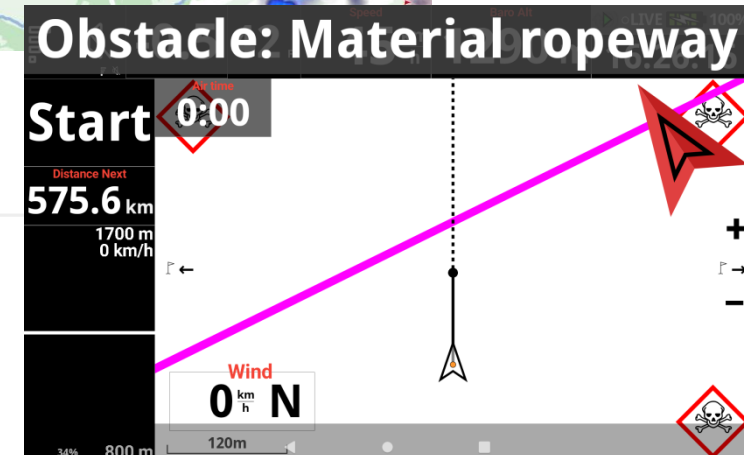
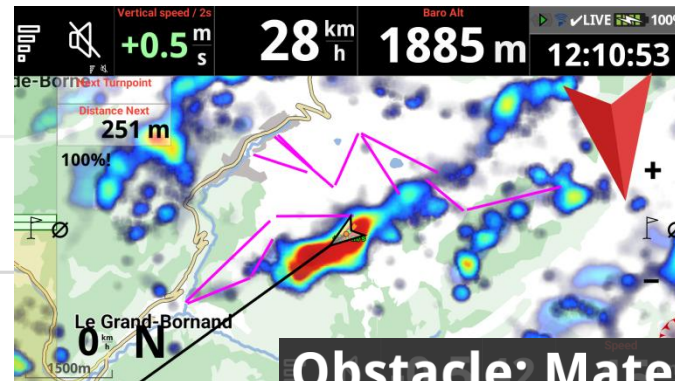
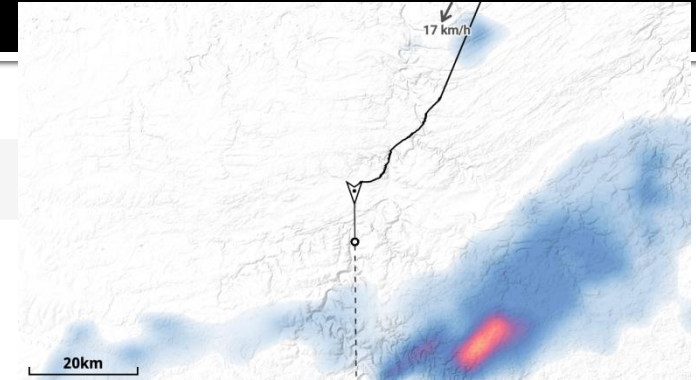
Time adjusted overlay opacity: 50% **Pro**

☒ Display airspaces and obstacles

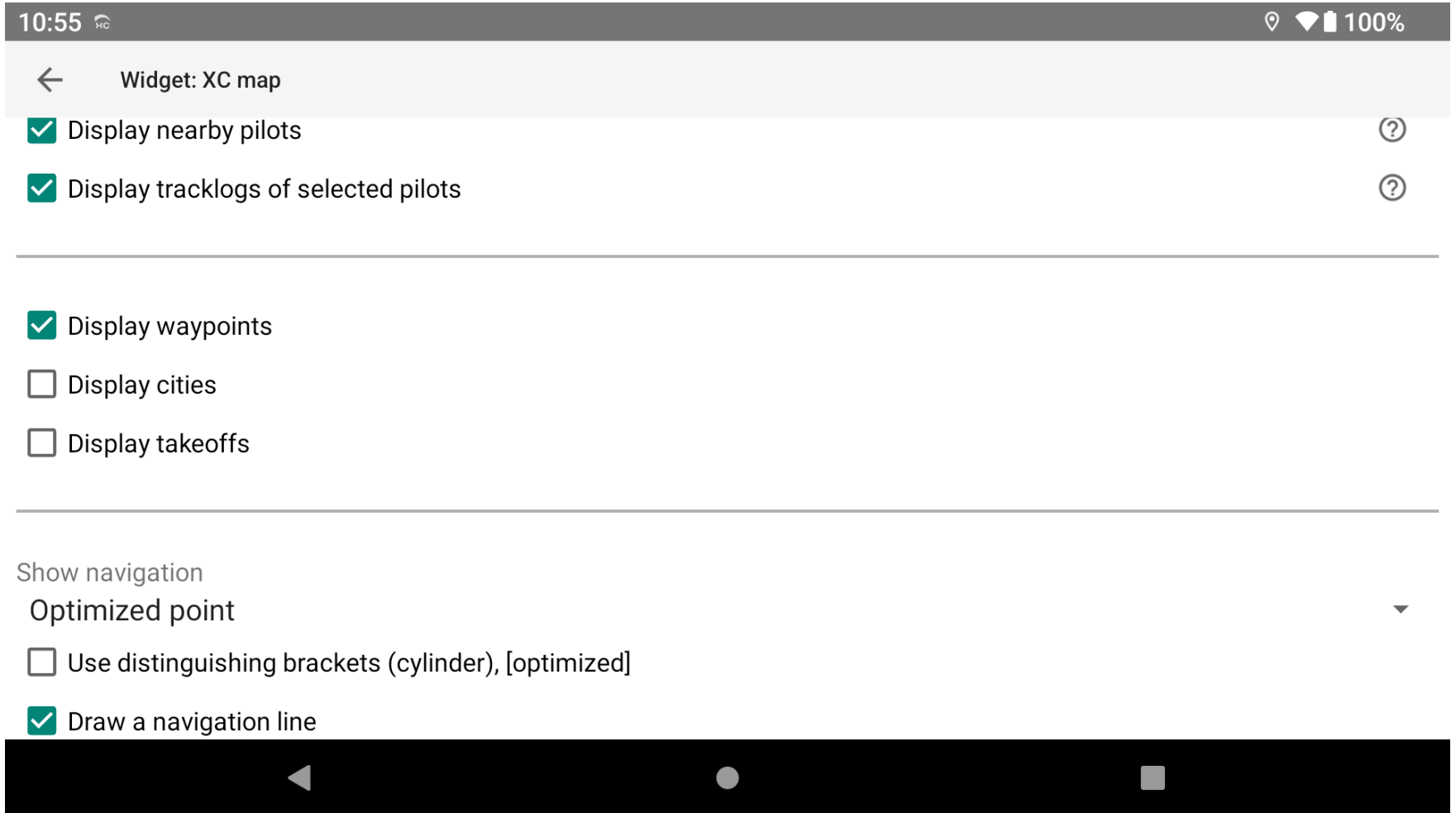
☒ Show alert screen when approaching obstacle

Map scale: Automatic zoom in emergency obstacles mode

☒ Automatic zoom in emergency obstacles mode



Review Maps widgets details



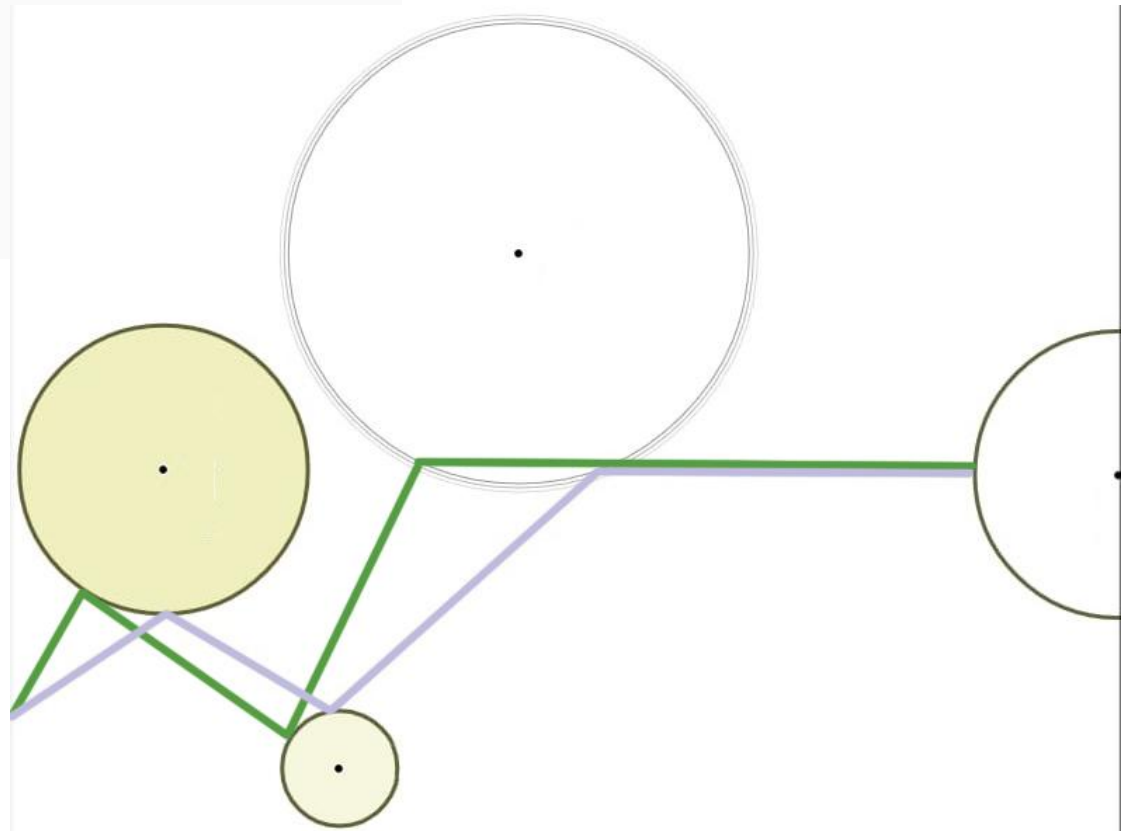
Review Maps widgets details

Point

Optimized point

Cylinder (nearest point)

Do not use



Review Maps widgets details

10:56 



Widget: XC map

Show 2 latest thermals

☐ Show wind

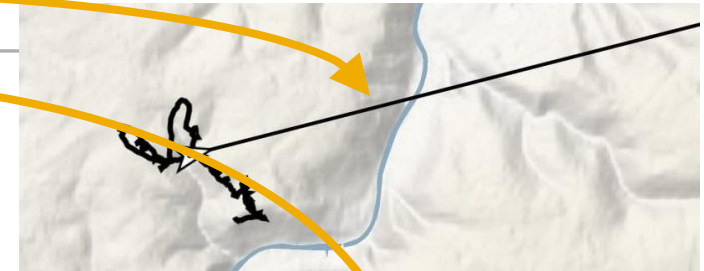
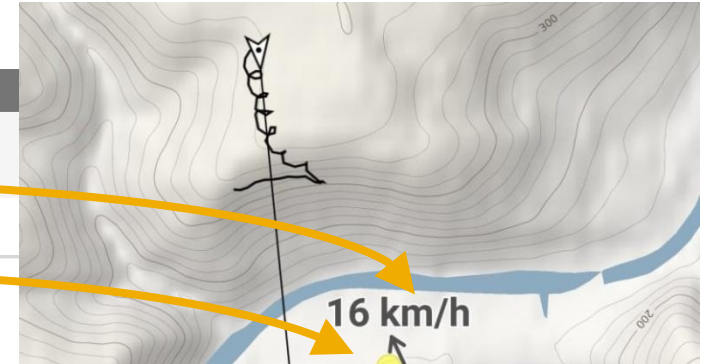
☐ Show sun position

☒ Show bearing (course) line

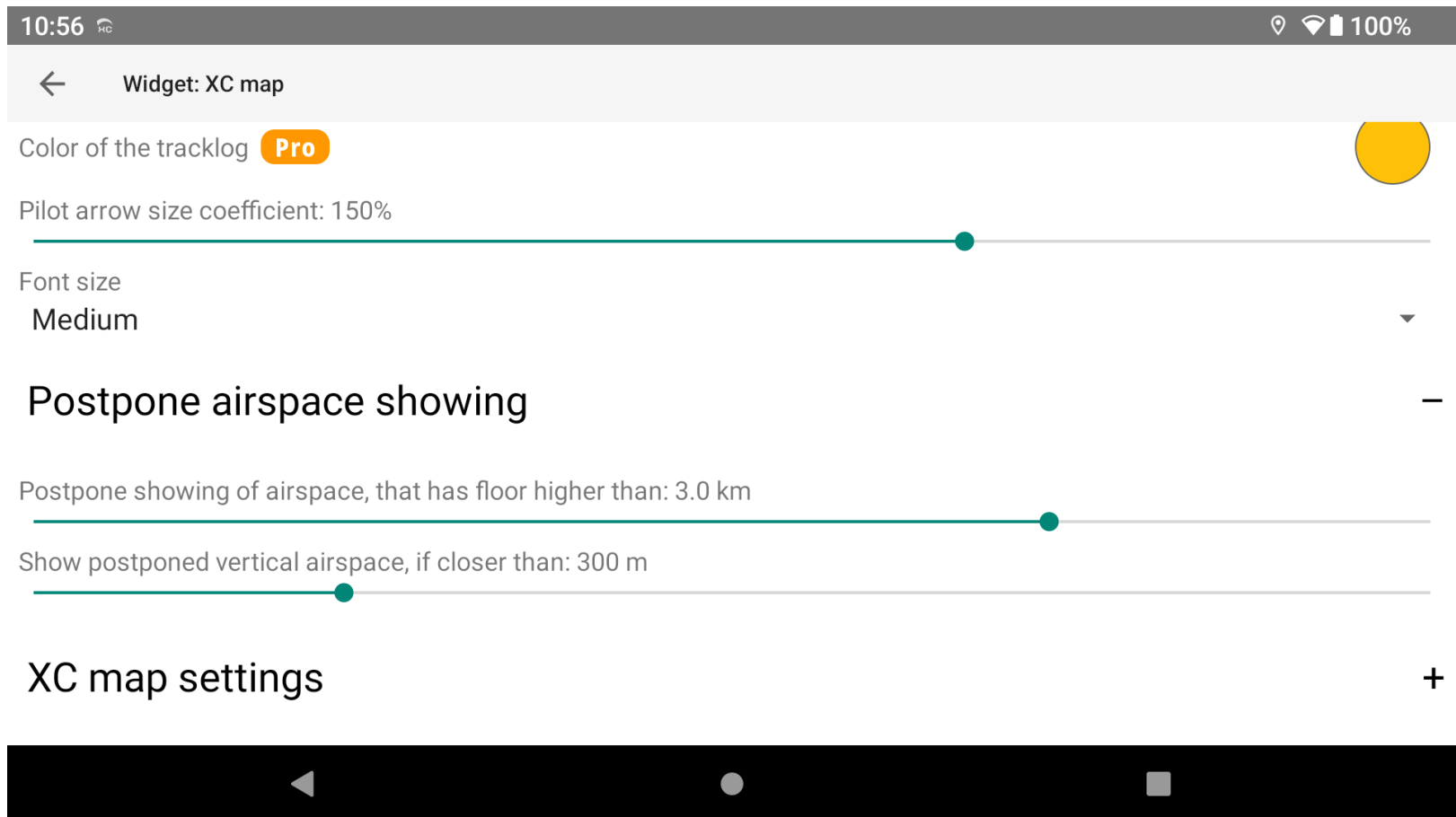
☒ Mark glide distance

Glide averaging: 10 s

Thickness of lines: 2.5x



Review Maps widgets details



Review Maps widgets details

10:57 HC



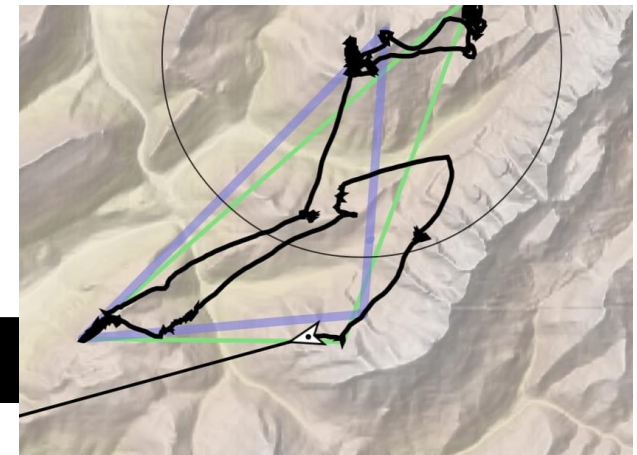
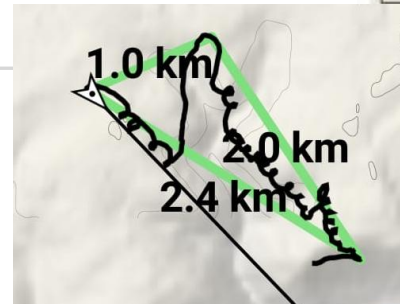
Widget: XC map

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

Show postponed vertical airspace, if closer than: 300 m

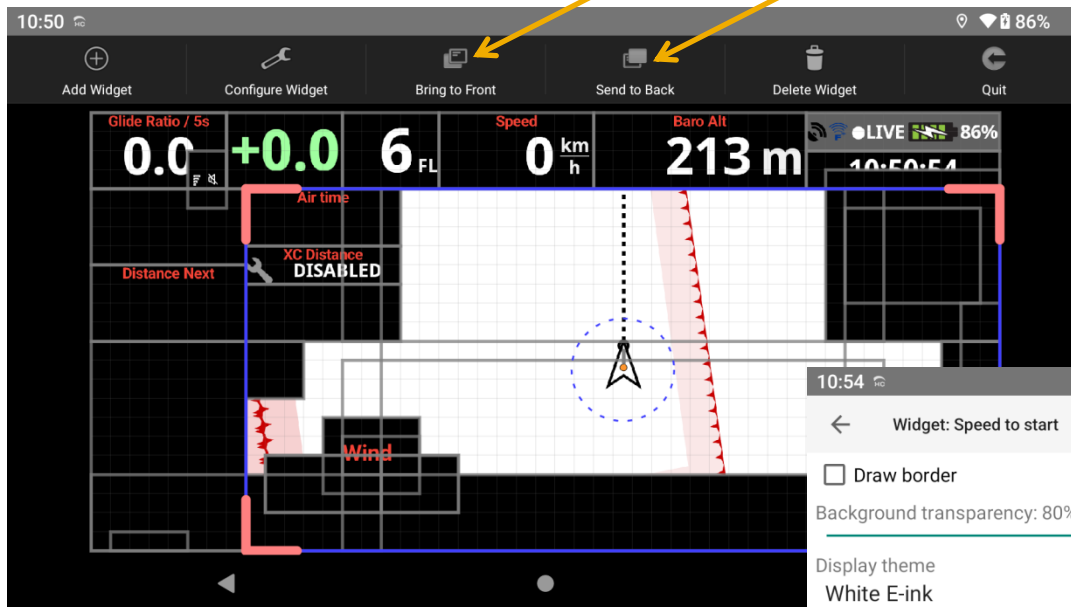
XC map settings

- ☐ 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

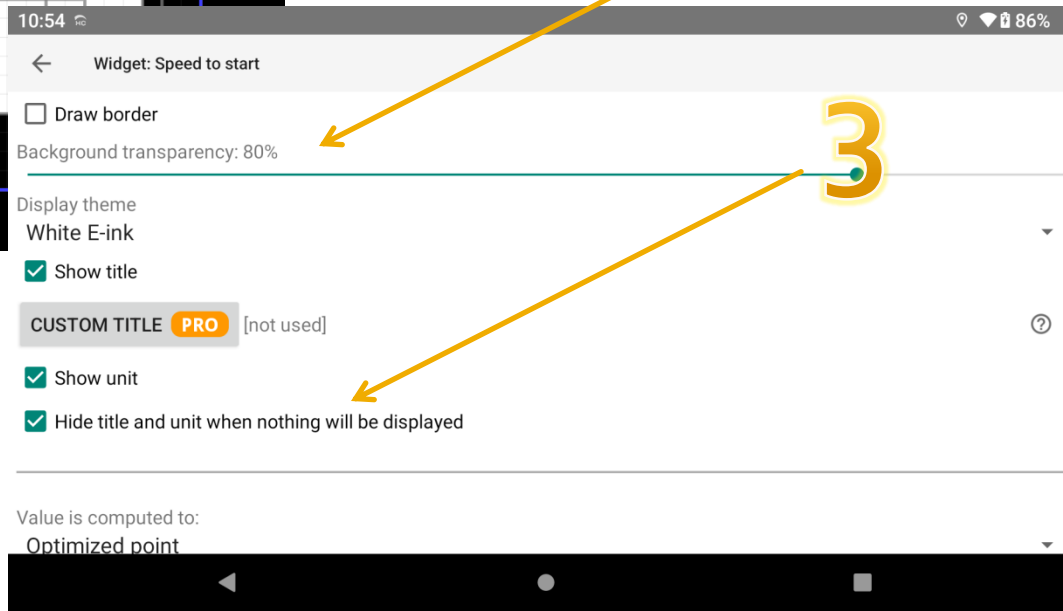


Customized Layout

1



2



3

Competition widgets

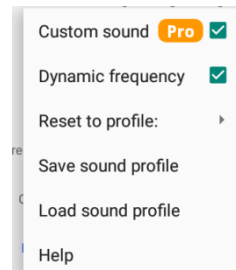
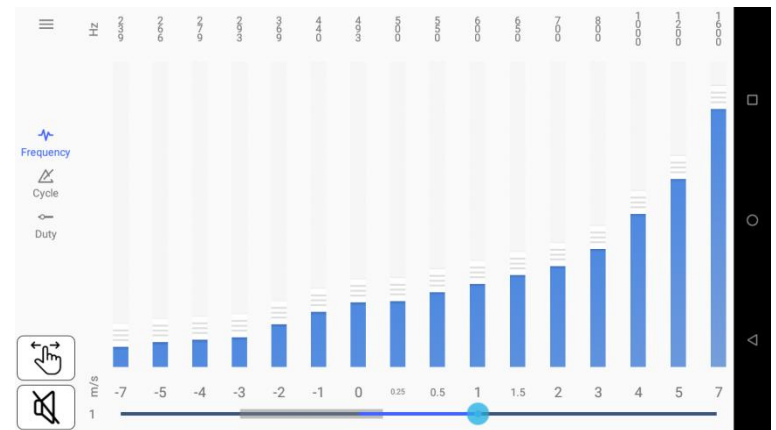
- Widgets before start
 - Time to start
 - Time at start
 - Speed to start
- Widgets during task
 - % of speed section
- Widgets before ESS/Goal (- 1000 m)
 - Distance, altitude over, Glide to ESS
 - Distance, altitude over, Glide to Goal

Sound customization

- Weak lift
- Lift audio threshold
- Custom sound

- Frequency
- Cycle
- Duty

- Dynamic frequency



The end....