



Tips and Tricks

Toni Šibanc, SALES & MARKETING @ LXNAV



AGENDA

- About LXNAV
- LXsim/LXstyler
- SW structure
- On the ground settings
- TIPS – HAWK
- Flying with the instrument
- Task mode – explanations
- LXNAV Connect



ABOUT me

- From Slovenia, since 1989 😊
- In business since 2008 – Started with SoaringXX company
- LX Navigation – 2011-2014
- LXNAV 2014->
- Gliding hours: 2200
- PPL: 300
- ULN: 150
- Flight instructor



lx nav



ABOUT LXNAV

- Since 2009
- Erazem Polutnik and Uroš Krašovic
- 30 employees





Software structure





SIMULATOR / LX STYLER

- Download it from www.lxnav.com
- It's FREE!



ON THE GROUND: Power ON – profil / elevation

- Select your profile (check glider/polar)
- Set elevation

Tip: Go to: Setup->QNH & RESERVE





ON THE GROUND: Flight recorder

- SETUP->FLIGHT RECORDER

Abc KBD Recorder INSERT

Interval
4sec

CN Reg.Nr.

Pilot first name Surname Weight
C 90kg

Copilot first name Copilot surname Weight
---kg

☒ log other aircrafts data
☒ log flap position

LX 9070

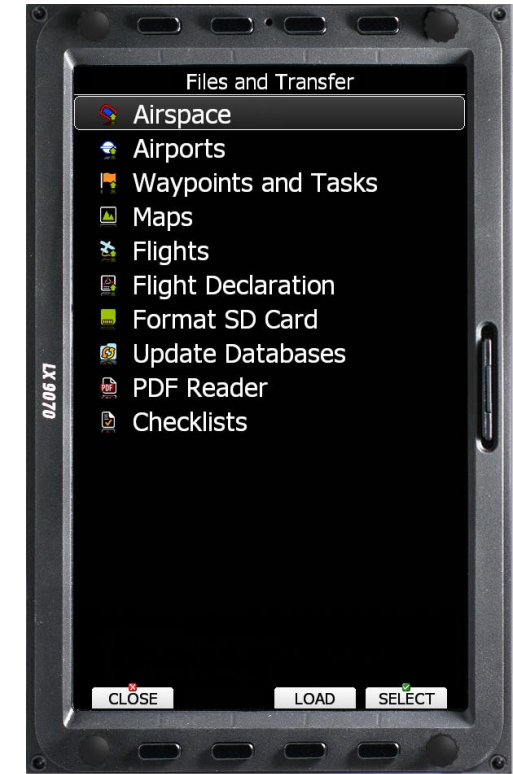
CANCEL DELETE CHAR>> OK



Weight -> set the correct weight, very important for Ballast!

ON THE GROUND: Select profile / Load AS / WPT

- SETUP->FILES & TRANSFER->PROFILES & PILOTS -> SELECT YOUR PROFILE-> ACTIVE!
- SETUP->FILES & TRANSFER -> AIRSPACE / AIRPORTS / WAYPOINTS & TASKS



Create your own LANDABLE file?
Thermal points file?



ON THE GROUND: Check reserve

- SETUP->QNH and RESERVE



USE reserve as the finish ring height

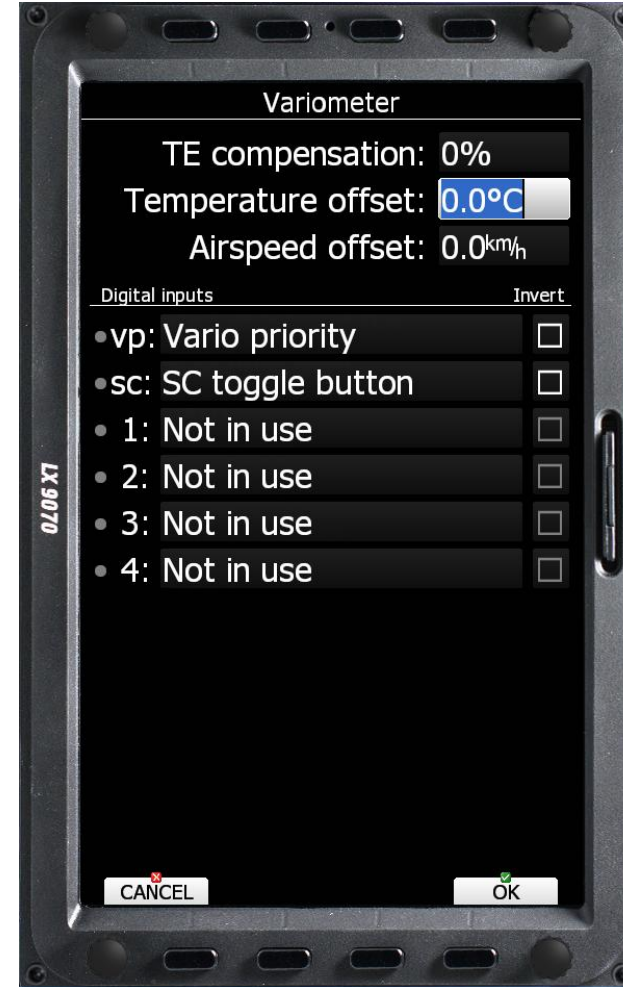


ON THE GROUND: Check VARIO

- SETUP->HARDWARE->VARIOMETER

TE = 100 % -> electronic compensation

TE= 0% -> TE compensation

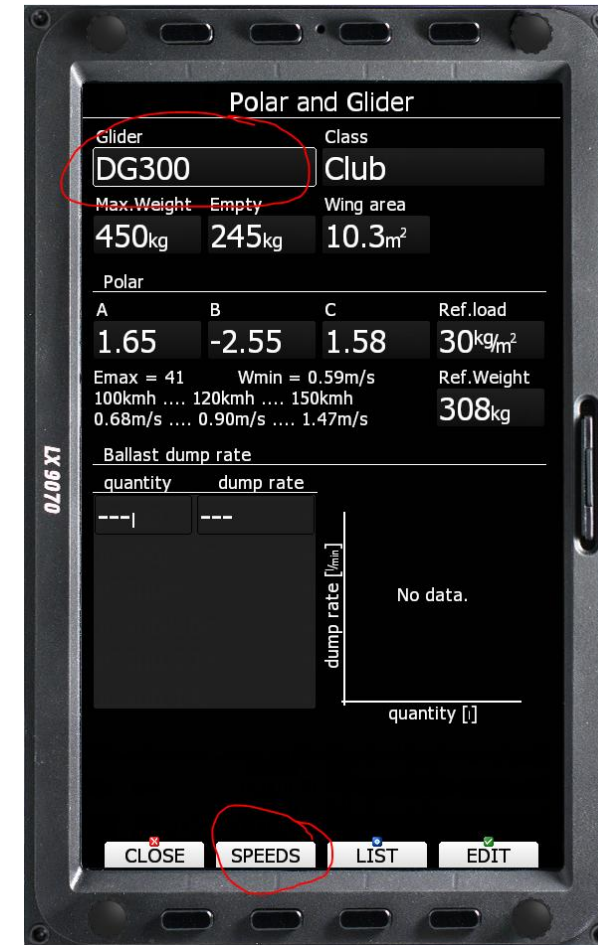


Did you know that every LXNAV vario can be electronically compensated ?



ON THE GROUND: Check polar

- SETUP->POLAR & GLIDER->GLIDER
- check „speeds“





ON THE GROUND: Units

- SETUP->UNITS

Set ballast -> weight? loading...

Set time: UTC offset

WGS84 = Record flying

FAI sphere= Competition flying



TIP: 1 Low battery

- SETUP->DISPLAY ->adjust brightness
- Set sound to a low volume



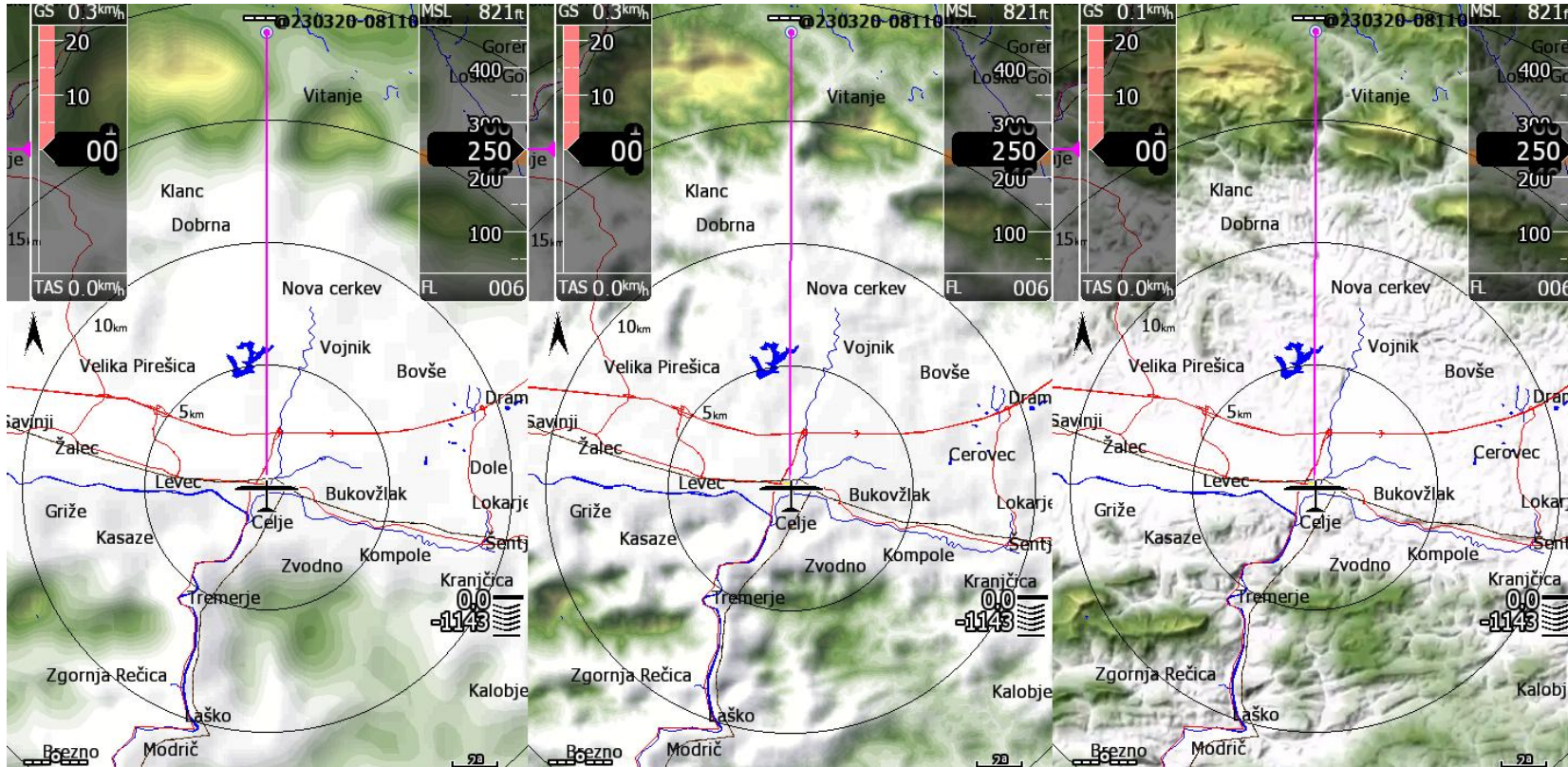


TIP: 2 Background settings



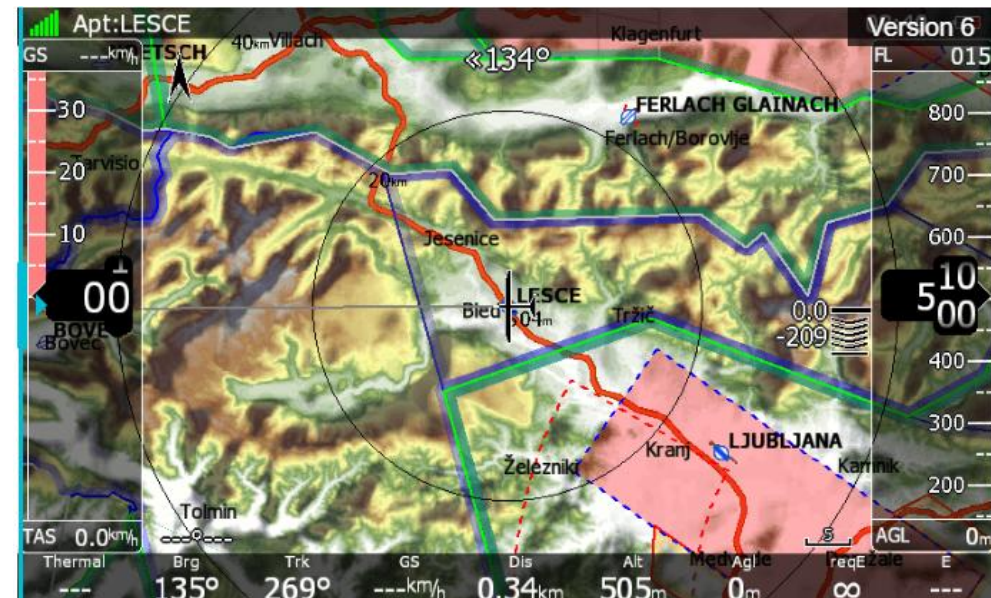


TIP: 3 Better TERRAIN -> SEEYOU maps



- SETUP->GRAPHICS->TILES
- GEN3 version ; SEEYOU Cloud subscription

TIP: 4 Airspace settings



TIP: 5 NAVBOXes - VARIO

- SETUP->HARDWARE->V8/V80 indicator



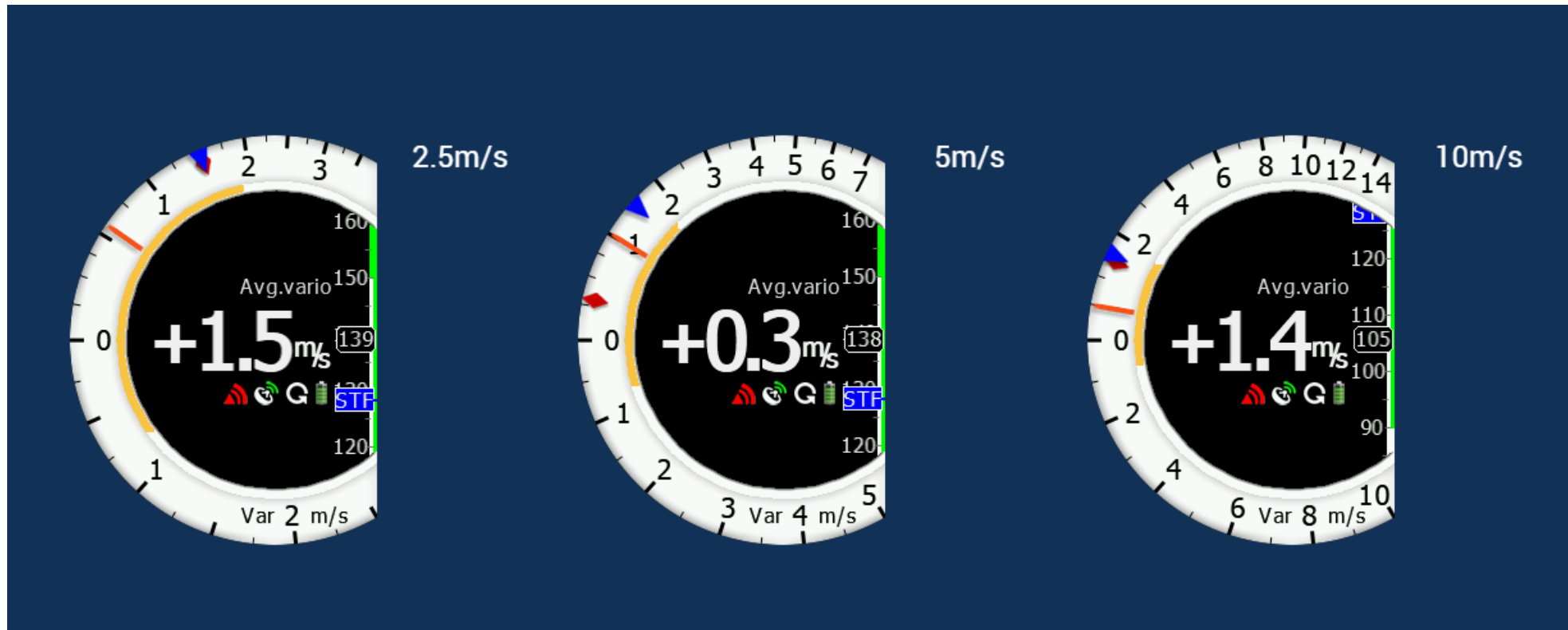
V80 indicator Sn.:02505

Vario needle	SC needle
Vario	Vario
	Navboxes displayed
	3
First line	Second line
Avg.vario	Avg.vario
Third line	Third line(SC)
Altitude (m)	Altitude (m)
Symbols	
No bar	No diamond
☐ MacCready	☐ Thermal
No bar	☐ FLARM
Dial Style	Needle style
Linear	Thick
Background	
White:Black	

CANCEL OK

TIP: 6 VARIO Scale

- SETUP->HARDWARE->V8/V80 indicator
NON-LINEAR / LINEAR



TIP: 7 HAWK

- RED = TE needle
- BLUE = HAWK needle
- Live wind
- AHRS
- VARIO = eliminates wind gusts

NEW: SxHAWK stand-alone vario!

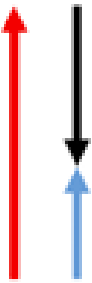


= CENTER



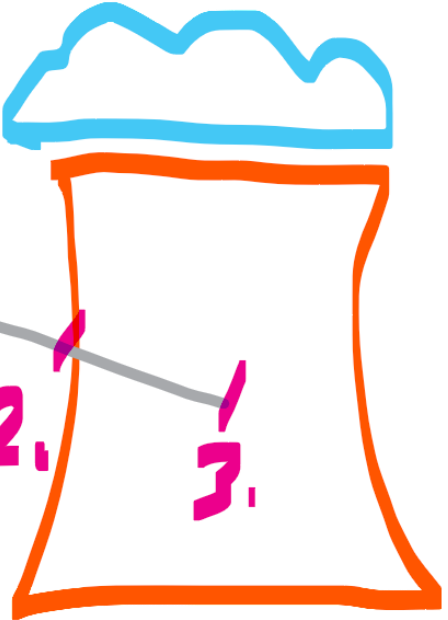
TIP: 8 HAWK

Climb rate
of the airmass
(vertical wind)



Sink rate
(Vertical TAS)
Climb rate of
the glider

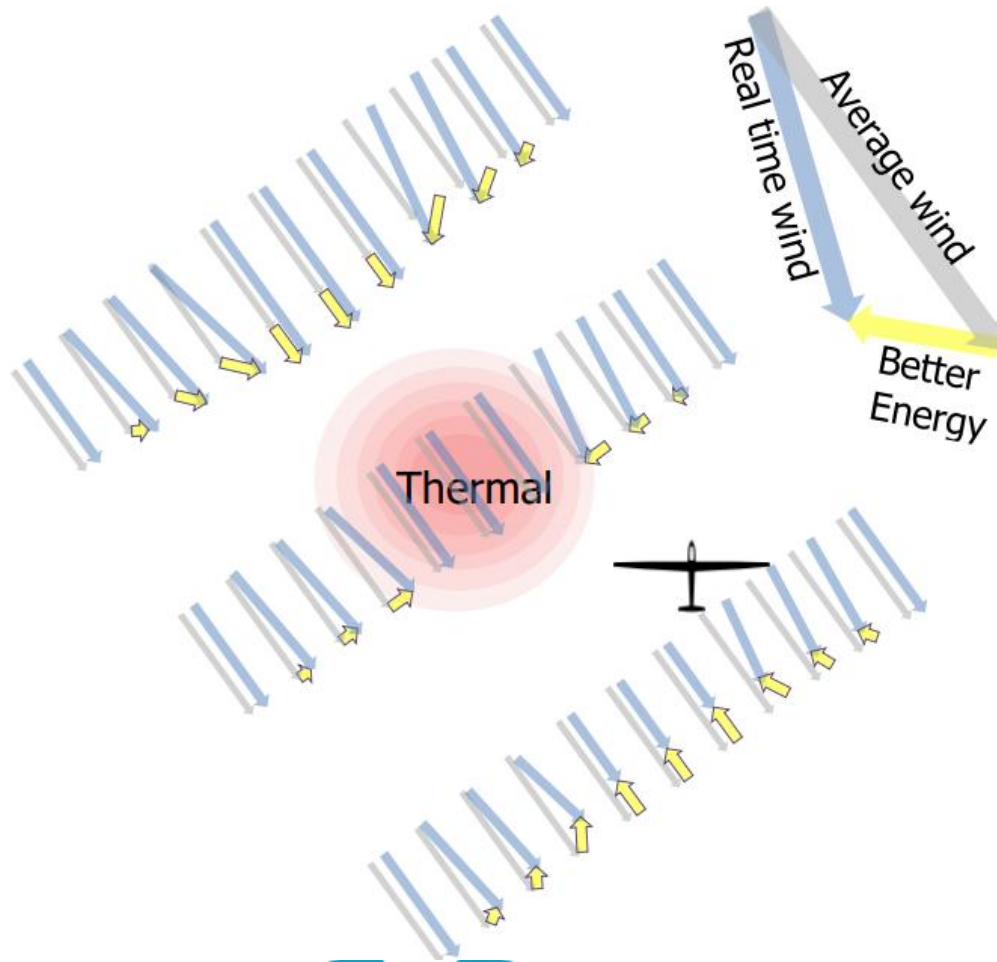
1.
2.
3.





TIP: 9 HAWK – ENERGY LINES

- PASSWORD: 14100





TIP: 10 HAWK – SOUND SETTINGS

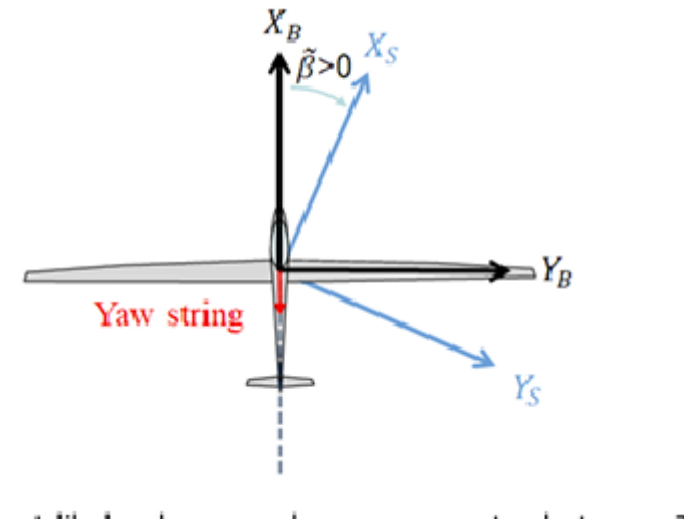
- TE NEEDLE = RED NEEDLE = AUDIO
- SOUND TO DIGITAL POSITIVE SETTING





TIP: 11 HAWK – CALIBRATION

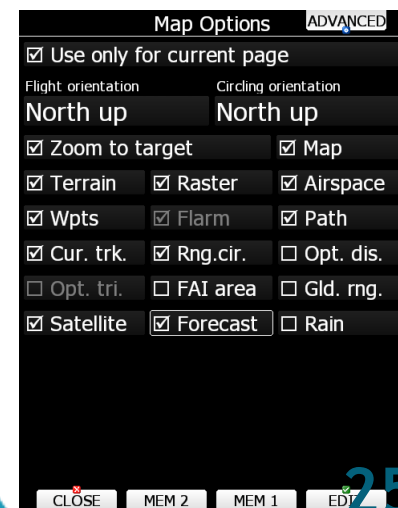
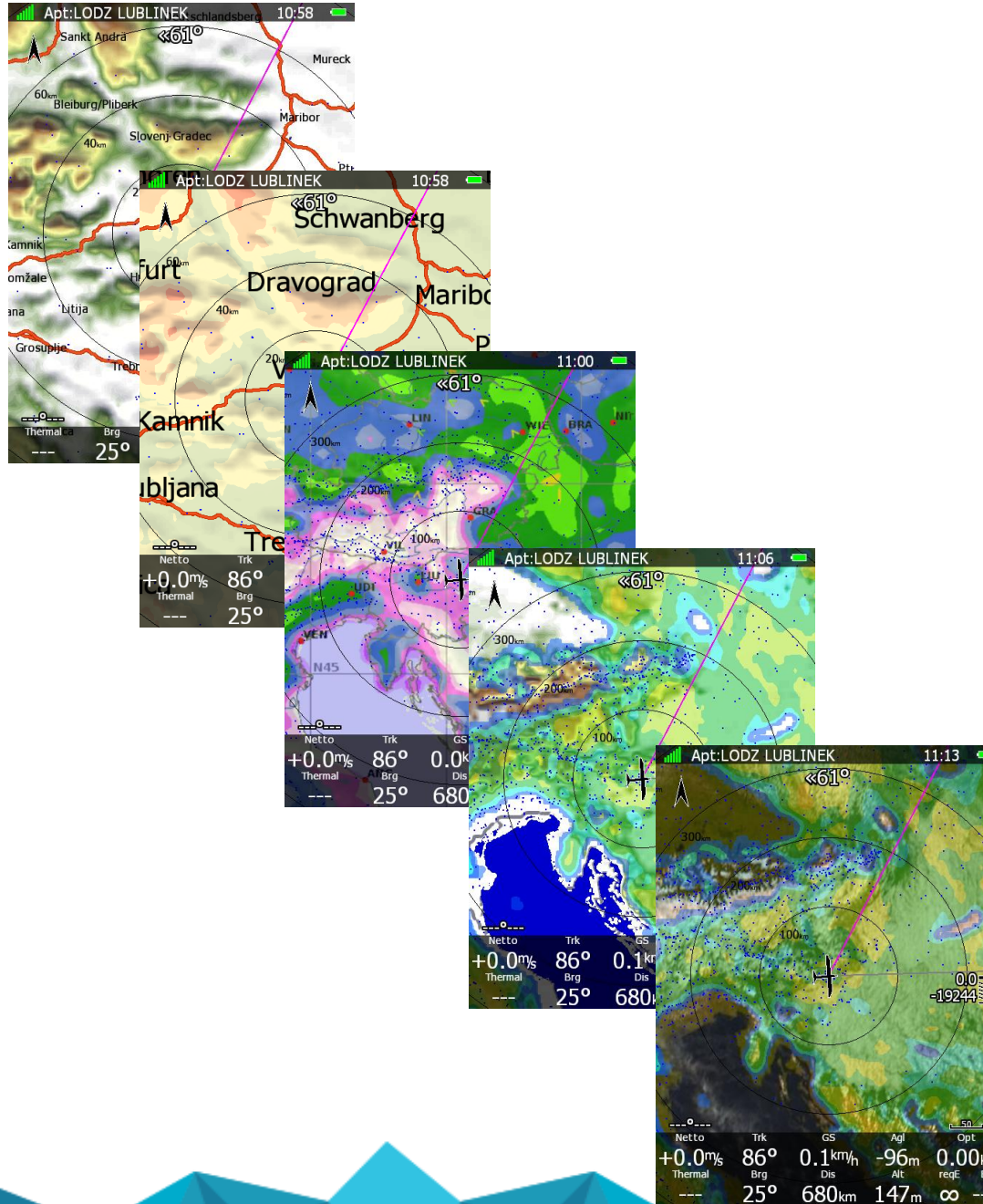
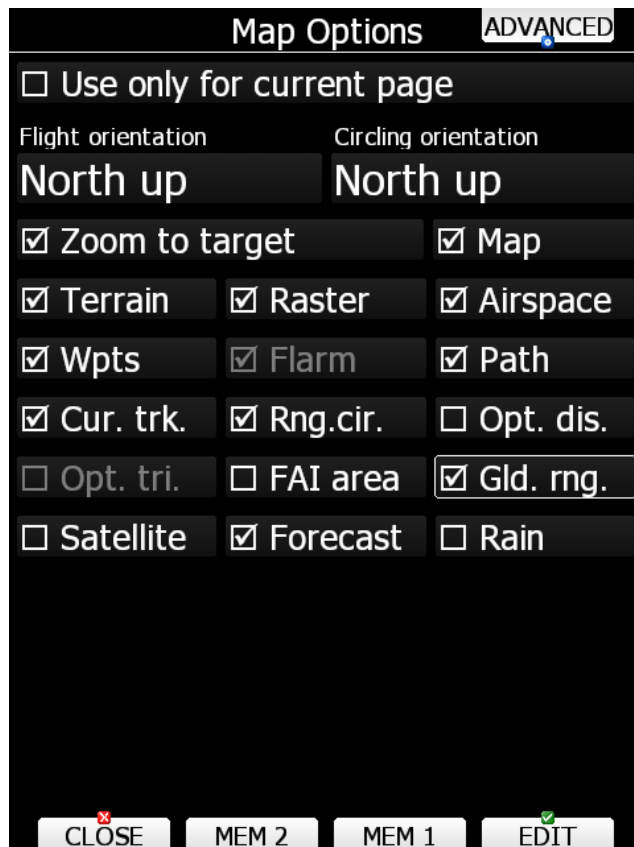
- 1) PITCH OFFSET
- 2) YAW OFFSET (while flying)
- 3) GPS antenna position





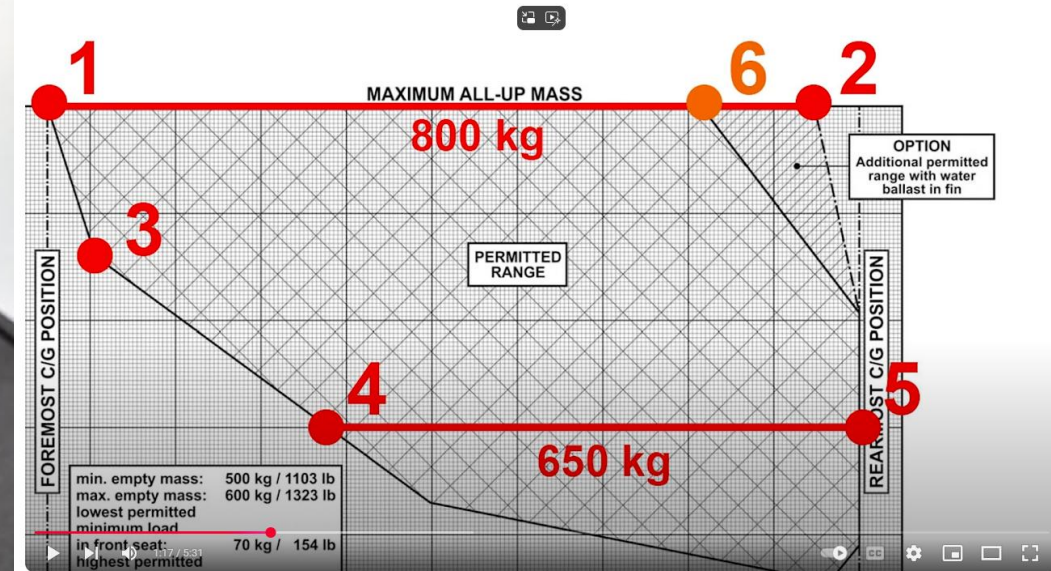
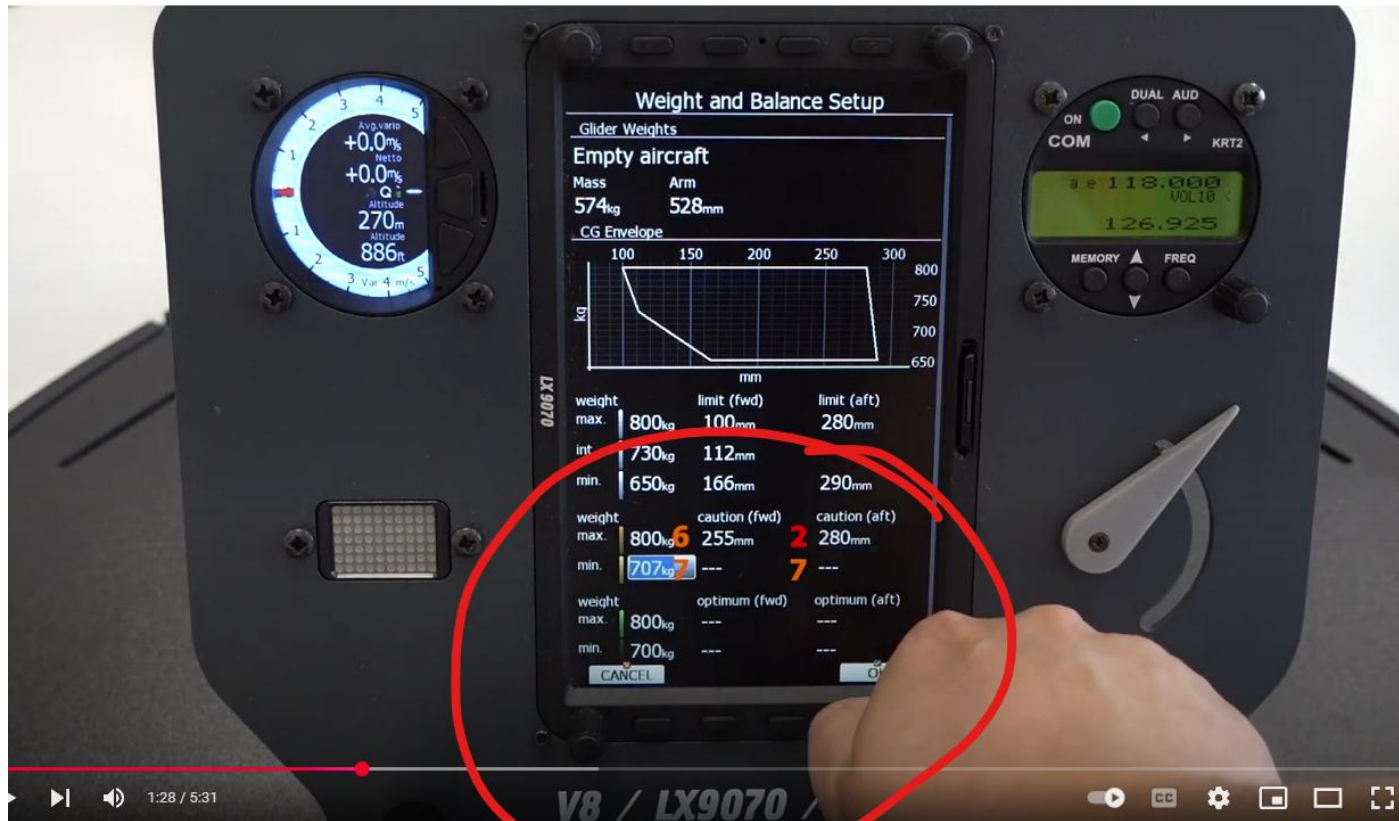
TIP: 12 MAP settings

- Use only for current page



TIP: 13 Weight and balance

- [Youtube: LXNAV: Weight and Balance](#)





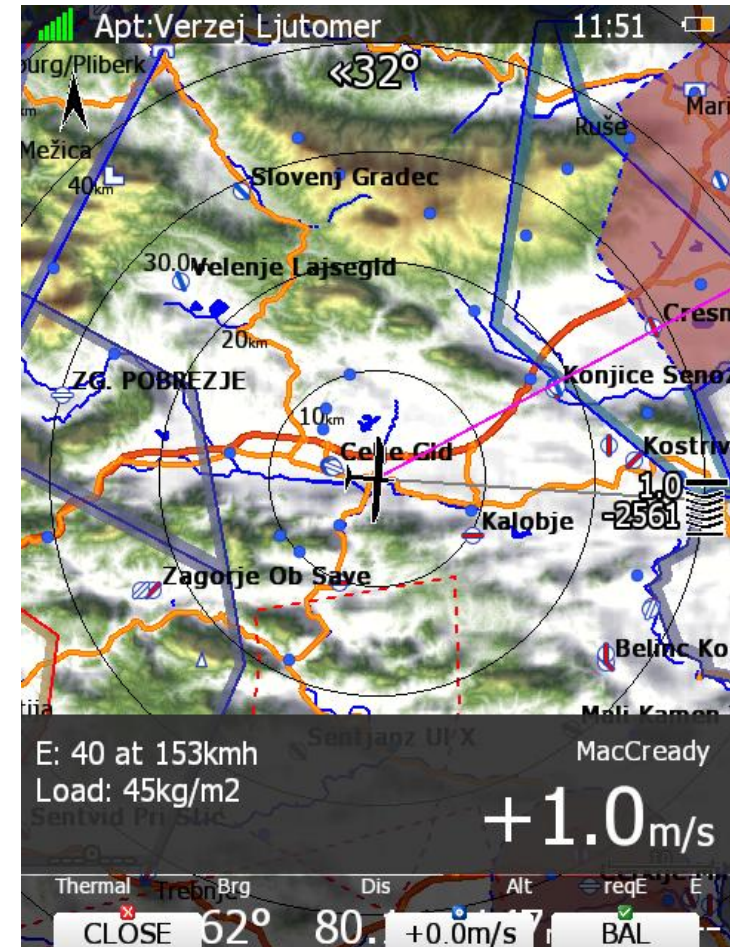
FLYING: MC / Ballast / Bugs

- APT / WPT / TSK
- Click: MC/BAL



Important for the Final glide!

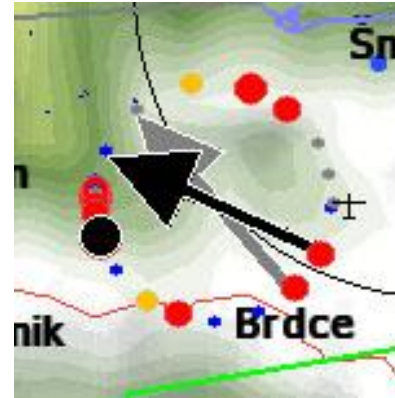
My experience: MC 1,5, bugs 3-5%, when reaching reserve +150m (at 40km from home) I am 100% home!





FLYING: Wind

- Wind history
- Wind methods
- Set your own wind
- Grey/Light blue (when HAWK) = LIVE wind
- BLACK arrow = combination



HAWK → live wind!



FLYING: PAN mode – select WPT

- Click on the PAN button
- Rotate the rotary buttons
- Click on INFO 1/4
- GOTO -> navigate to WPT





FLYING: PAN mode – Airspace

- Click on the PAN button
- Rotate the rotary buttons
- Click on INFO 1/4





FLYING: NEAR mode

- Sort by: dis /brg / arrival...
- Use VIEW: frequency

Near			
Name	Dis.	Brg	Arr
Novo Mesto Letal	8.00km	336°	549m
Prilozje Metlica	18.8km	154°	-158m
Gruca Sentjerney	20.3km	55°	-205m
Trebnje UI	22.1km	328°	-333m
Pozar Kovevje UI	22.5km	247°	-591m
Novi Lazi Kocavs	29.8km	230°	-1109m
Sentjanz UI X	29.8km	4°	-856m
Sentvid Pri Stic	32.5km	313°	-950m
SENTVID	32.5km	313°	-953m
Ribnica UI	33.7km	273°	-1216m
Cerklje Mil	33.9km	59°	-1000m
Leskovec UI	34.8km	54°	-1097m
Vince Sadrazica	36.9km	271°	-1410m
Mihalo Dobova	41.8km	66°	-1469m
Mali Kamen Topol	42.0km	40°	-1589m
Litija Zavrstnik	42.6km	322°	-1476m
SORT FREQ VIEW GOTO			



FLYING: Weather





FLYING: My profile - Weather





Task: options

- Navigate to the nearest point
- ARM mode
- GATE options -> SGP contest
- EVENT procedure
- Finish elevation

Task Options

Description

☒ Navigate to nearest point

☐ Use start arm mode

Before start

Gate opens Below time Below alt.
--:-- --- ---m

Start procedure

☐ Start out of the top

Gate int. Start alt. Start gsp.
0min ---m ---km/h

Event procedure

Wait before Start period Wait after
5min 10min 5min

Finish

☐ Finish is below start for 1000m

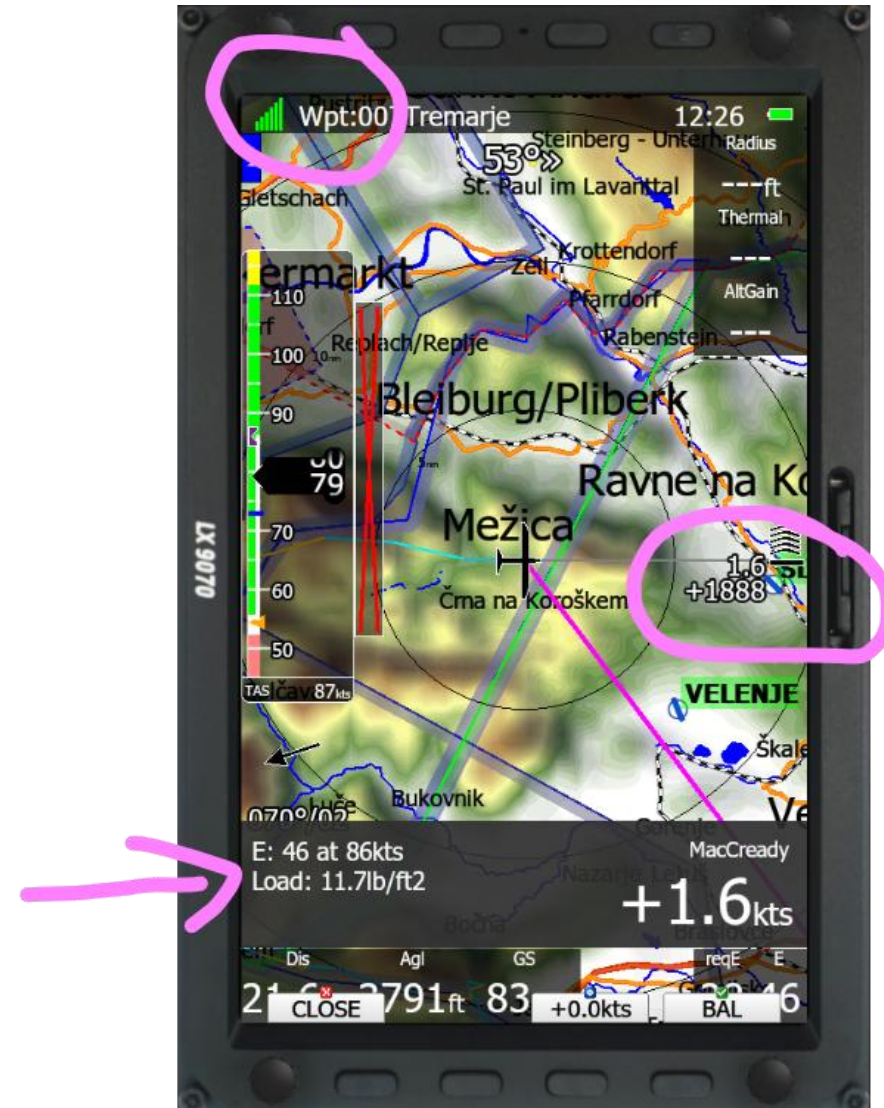
Finish elev.
244m

CANCEL OK



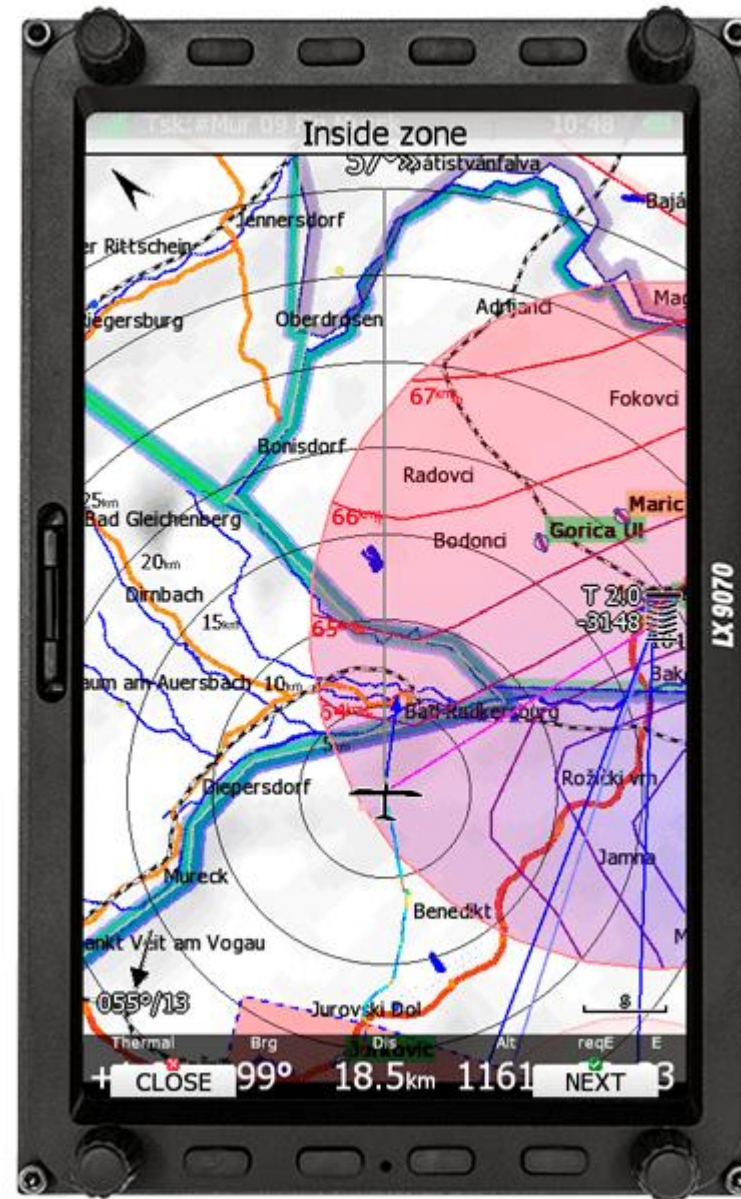
Task: Final Glide

- Different FG at APT/WPT/TSK pages
- Always set MC / BALLAST / BUGS
- Safety altitude – reserve?
- Flying to the center or to the ring?
- CHECK WIND!!!



Task: AAT calculations

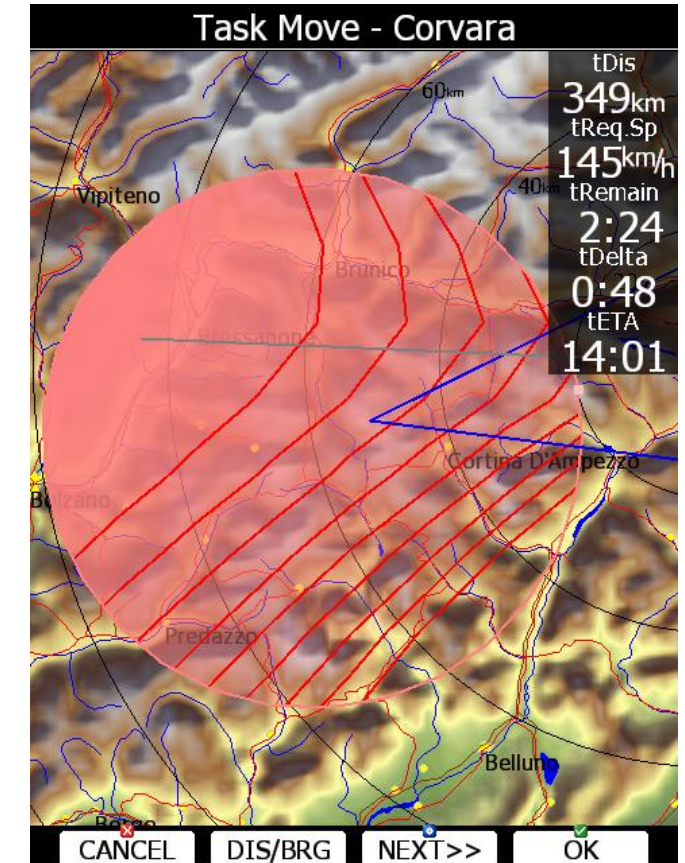
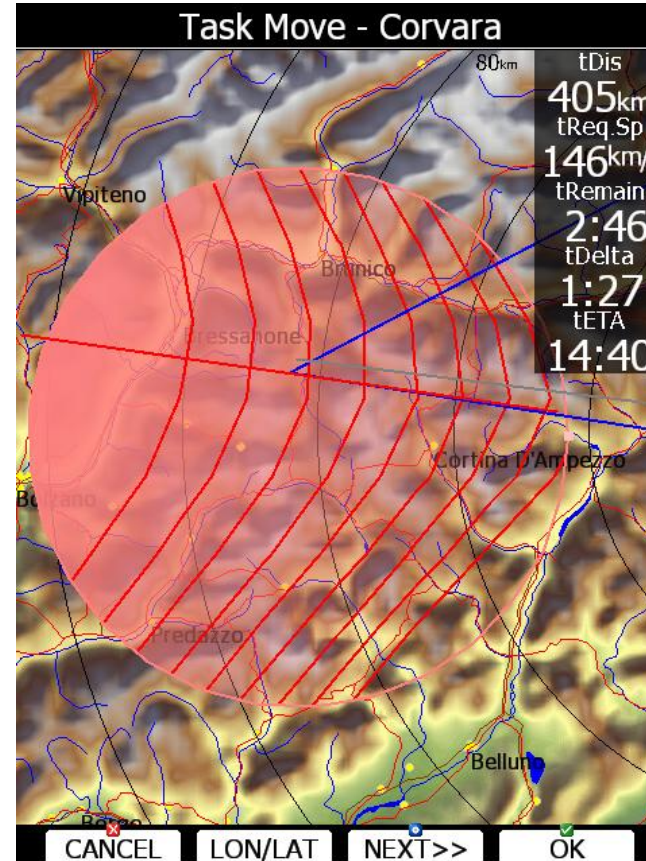
- Accurate calculations
- Direction assistant
- Speed lines





Task: AAT -> ZONE move

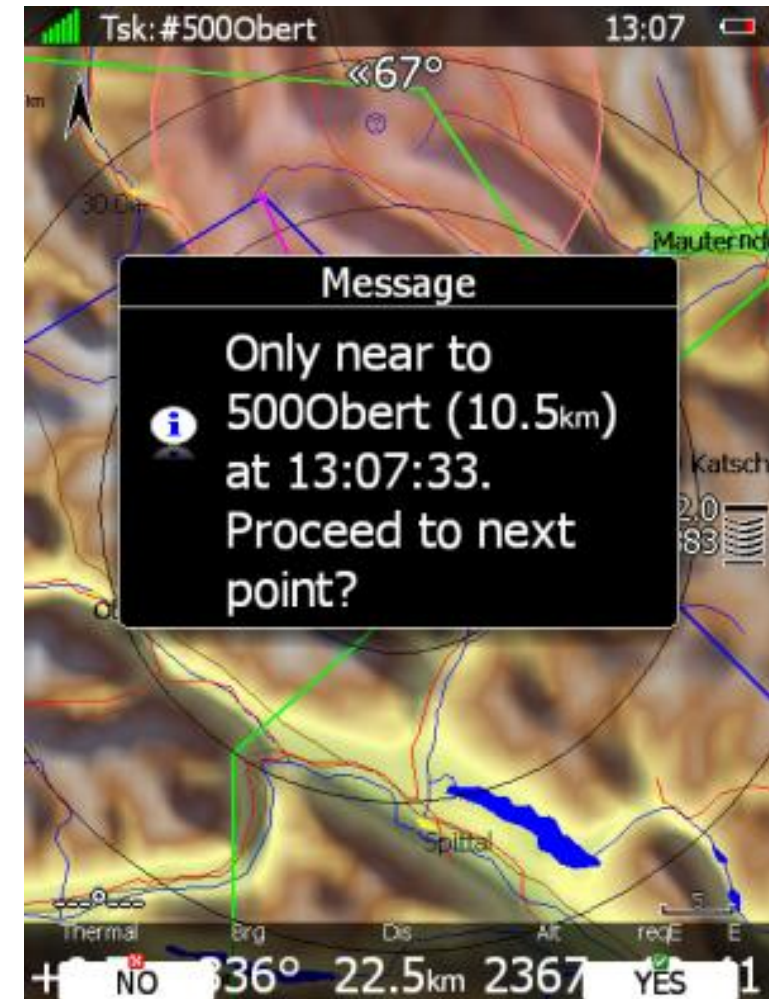
- MOVE option
- Check parameters
- Check Tdelta/tsk speed and treq speed navboxes





Task: Restarting a task

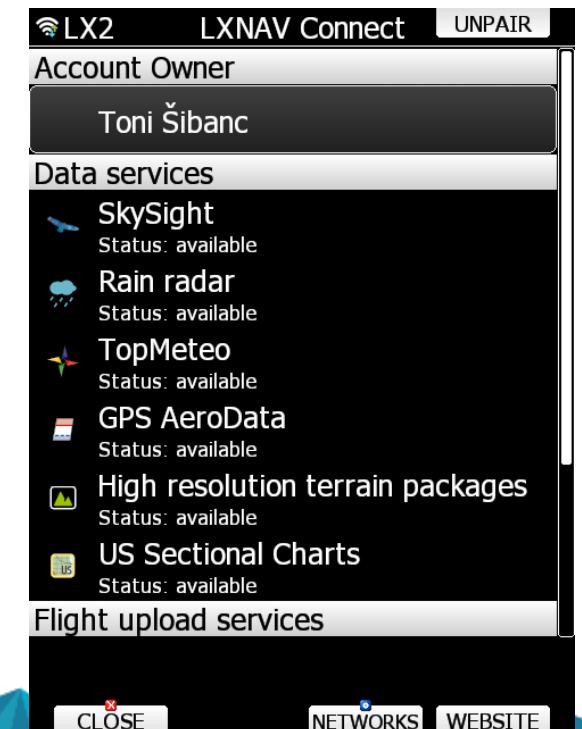
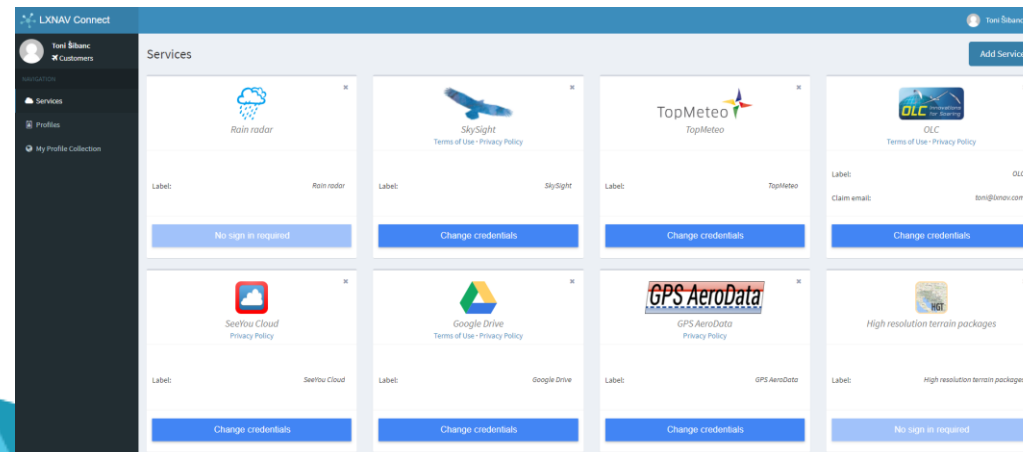
- Simply press RESTART
- If you did a mistake, press restart and NEXT / NEXT... to your actual waypoint – statistics will be OK.





LXNAV CONNECT

- Google Drive
- DropBox
- SeeYou Cloud
- WeGlide
- RAIN RADAR
- SkySight
- Satelitte picture
- OLC upload
- SoaringSpot integration (download task)
- No more SD Card/USB -> upload to Email!
- Save your profile to Cloud
- Automatic Profile SYNC





LXNAV CONNECT: Profile Collection

- LX Styler
- LXNAV WEB

The screenshot displays the LXNAV software interface with a grid of thermal maps. A red circle highlights the 'Tools' menu in the top bar. A 'Profile Collection' dialog box is open in the foreground, titled 'Introducing Profile Collection'. The dialog contains the following text:

We are proud to present LXNAV Profile Collection. With it you are given the opportunity to share your profiles with other pilots, by uploading them to Profile Collection, where others can rate, comment, and download them for use on their own devices! Please note, if you would like your name to appear alongside the profile you will need an LXNAV Connect account.

By using [LXNAV Profile Collection](#) you agree to our [Terms of use](#) and [Privacy policy](#).

Automatic profile uploading

- ☐ Upload as user
- ☐ Upload anonymously
- ☒ Disabled

Manual profile uploading

- ☒ Stay anonymous when uploading

☐ Do not show again

Close

Statistics

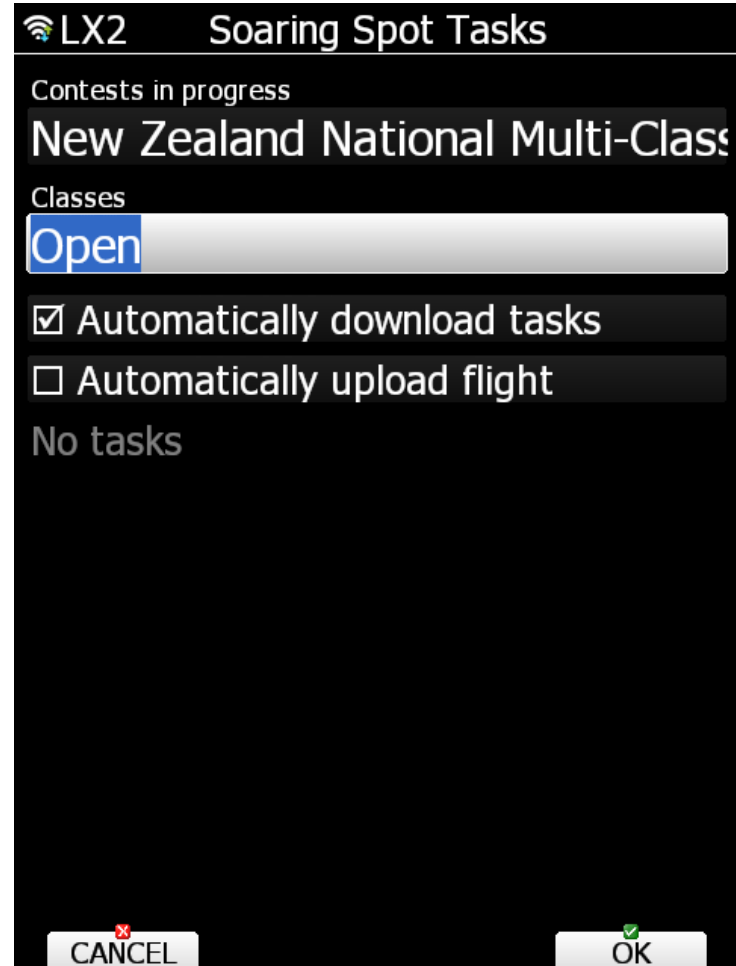
Last 60 minutes statistics

- Avg.vario: ---m/s
- Avg.speed: 116.6km/h
- XC speed: ---km/h
- Dis.flown: 8.16km
- Circling: 0%
- Duration: 0:04:12



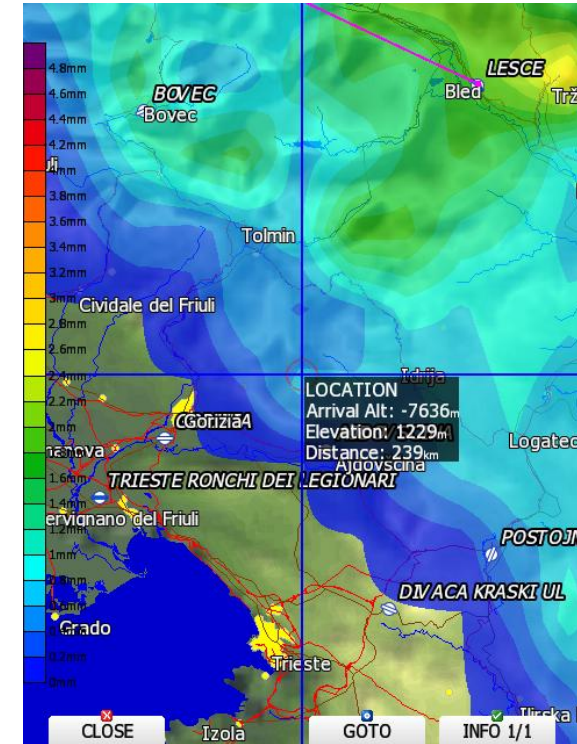
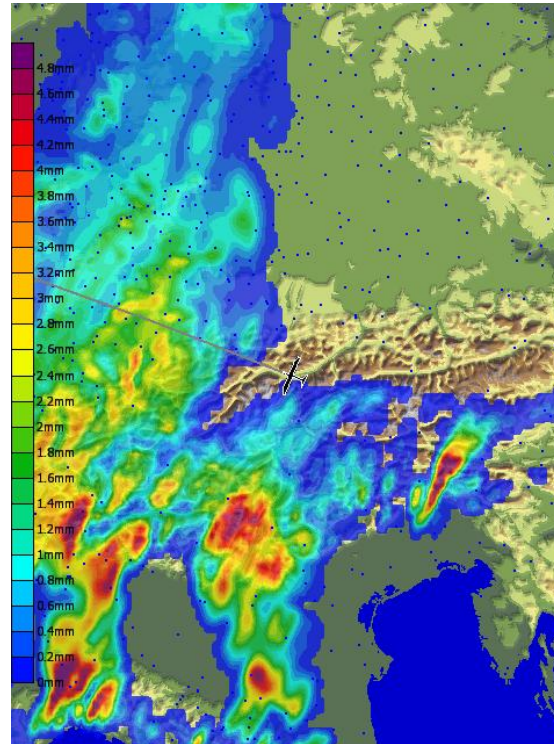
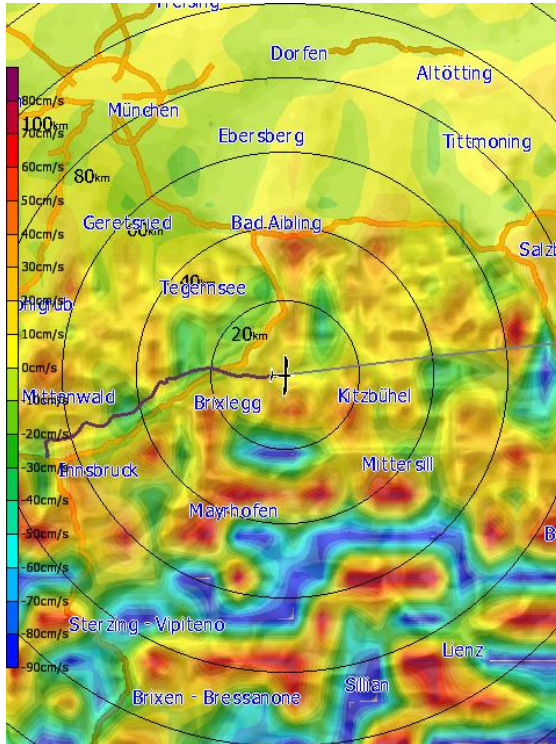
LXNAV Connect: Soaring Spot Integration

- TASK download





LXNAV CONNECT: SKYSIGHT-TOPMETEO



VOUCHER CODE: 70€ / normal price 89€



WHY to choose LXNAV

- Constant development
- 30 young motivated people
- 24/7 support – UROŠ!
- Free support (emails)
- Free updates
- You can find us at most of major gliding competitions and events
- Every instrument **is tested and fully developed** before being launched on the market
- Consistent logic across all instruments (e.g., S3->S100 VARIO)

Any QUESTIONS?

1. RTFM -> read the manual 😊
2. info@lxnav.com (support)
3. toni@lxnav.com (personal stuff/presentation)
4. +38641453960 (my number)
5. LAST -> FACEBOOK / WHATSAPP
(please don't use for the support)

SUPPORT / INFO / FOLLOW US

www.lxnav.com

LXNAV Facebook

LXNAV instagram

