HOW TO IMPORT DATA FROM FG-33+ AND FG-43 TO SURFER

In this document we will show how to import FG-33+ and FG-43 file into the Surfer and Google Earth program.

Important Note: Works only with devices manufactured after 2023

SURFER

After the recording with FG-33+ or FG-43 sensor is done, download the data and save it to your PC.

Open the Surfer program and click the Grid Data button. Find and select .CSV file downloaded from the sensor and open it.



From the Data Columns select

- $X \rightarrow$ Column C: Longitude
- $Y \rightarrow$ Column B: Latitude
- $Z \rightarrow$ Column E: Hx or F: Hy or G: Hz (depends on which axes you are interested in)

And press OK to convert the data.

9 12 1 di 1	⇒ <mark>[]}</mark> =			Surfer	- [Plot1]		
File Home Layout	Features Grids Mi	ap Tools View	Q Search commands and Help				
Ciphoard Undo	Select Select	Grid Data	Base Contour Post Surface*	Color Specialty Relief	Layer T	ext Polyline Polygon	+ 20
Contents	A × d	Platt X	There may		Noo to map	marc	
Properties - Nothing Selected	* * *	666	Grid Data - C/User/simon/OneD Data Columns (72140 data points X: Column C: Longitude 7: Column B: Latitude 7: Column B: Latitude 7: Column B: Longitude 7: Column B: Honfil 7: Column B: Column B: Honfil 7: Column B: Column B: Column B: Honfil 7: Column B: C	rive\Desktop\test-s ;) Filter View Sta Advanced O mum 222 (46.227787	mast\040323_101 Data / Data tistics ptions Spacing 1.49999999998 1.501075268816	? × OK Cancel]Grid Report Cross Validate # of Nodes 100 \$	
			Grid Z Limits Minimum: None ~ Maximum: None ~	Z Trans	form: Linear gn NoData outside ate convex hull by:	convex hull of data 1E-05	
	* http://		Output Grid C: \Users\simon\OneDrive\Desktop	o\test-smast\040323	_101517.grd	~	

Next click on Contour button, select the converted file and choose Open to load the data



Now you can view the scanned data. This view can also be improved by adding colour. To do this click on Contours-[your_file_name], select Levels menu, check the Fill contours check box and click "..." button under the Fill colours option.



The image now looks much better

Our example of the 3D scan below would be nicer, if the track was denser.

GOOGLE EARTH

Expe

Before exporting the data all axis check boxes and lines options should be cleared

After clearing the options, choose File, Export and enter the name of the file. Then click SAVE. ×I

O									
$\leftarrow \rightarrow \cdot \uparrow$	_ > Tar	računalnik > Namizje	> test-smast			νõ	Preišči test-s	smast	
Organiziraj 🔻	Nova m	apa						III • 🕐	
🚽 tmp	^	Ime	^	Stanje	Datum spremembe	Vrsta	Velikost		
TOR				Vašemu iskan	ju ne ustreza noben eleme	at.			
📥 OneDrive - P	ersor								
🚊 Dokumenti									
📃 Namizje									
📰 Slike	- 11								
💻 Ta računalnik	۰ I								
🧊 3D-predme	sti								
付 Dokumenti									
🁌 Glasba									
📃 Namizje	~								
Ime datotek	e: my_te	st						~	
Vrsta datotek	e: KML G	ioogle Earth KML (*.kml))					~	
	- Sele	cted objects only	Show options	dialog	Current vie	w only			
		,,				,			
🔺 Skrij mape							Shrani	Prekliči	

Do not forget to select the scaling source \rightarrow Map: Coutours-GPS_[your_file_name]

Export Options - my_test.kml

To open Google Earth, open your browser and go to <u>https://earth.google.com/</u> Select "Projects" and click Open

And the final result:

