

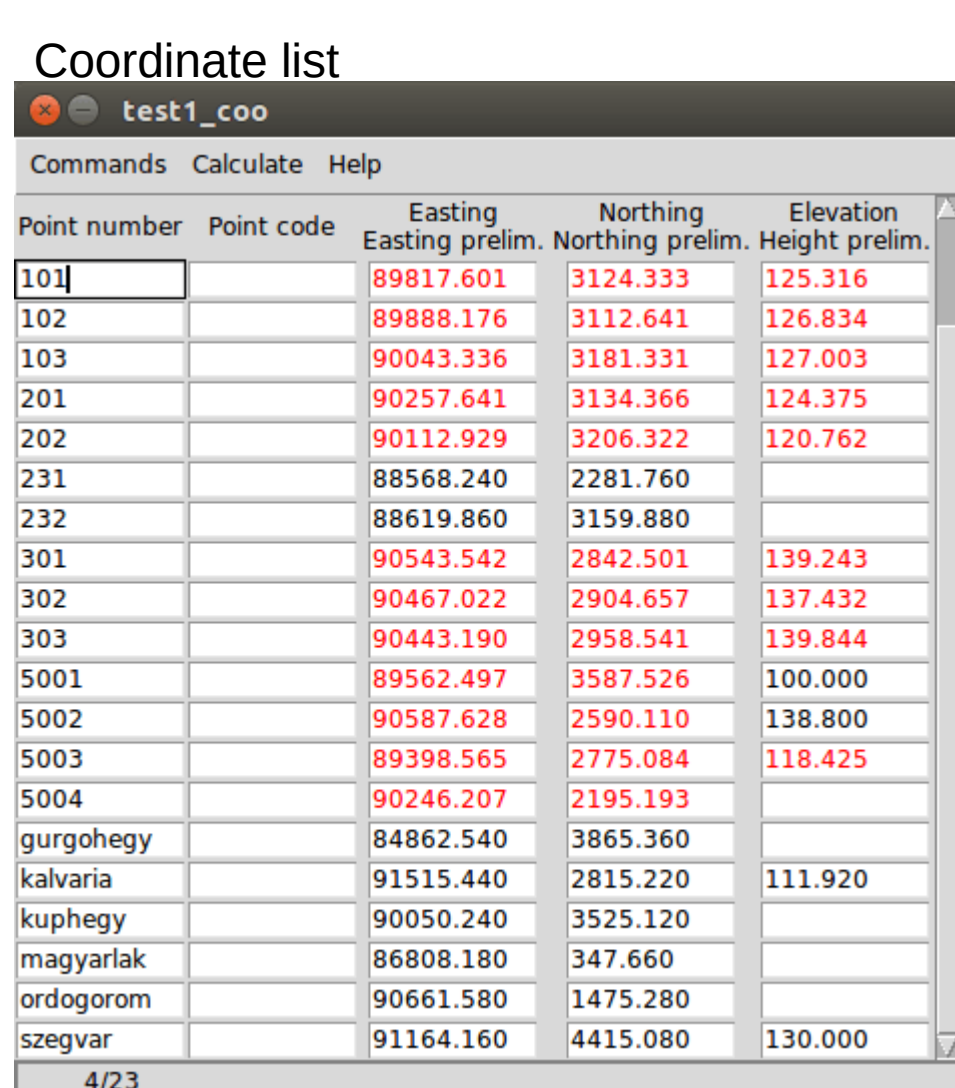
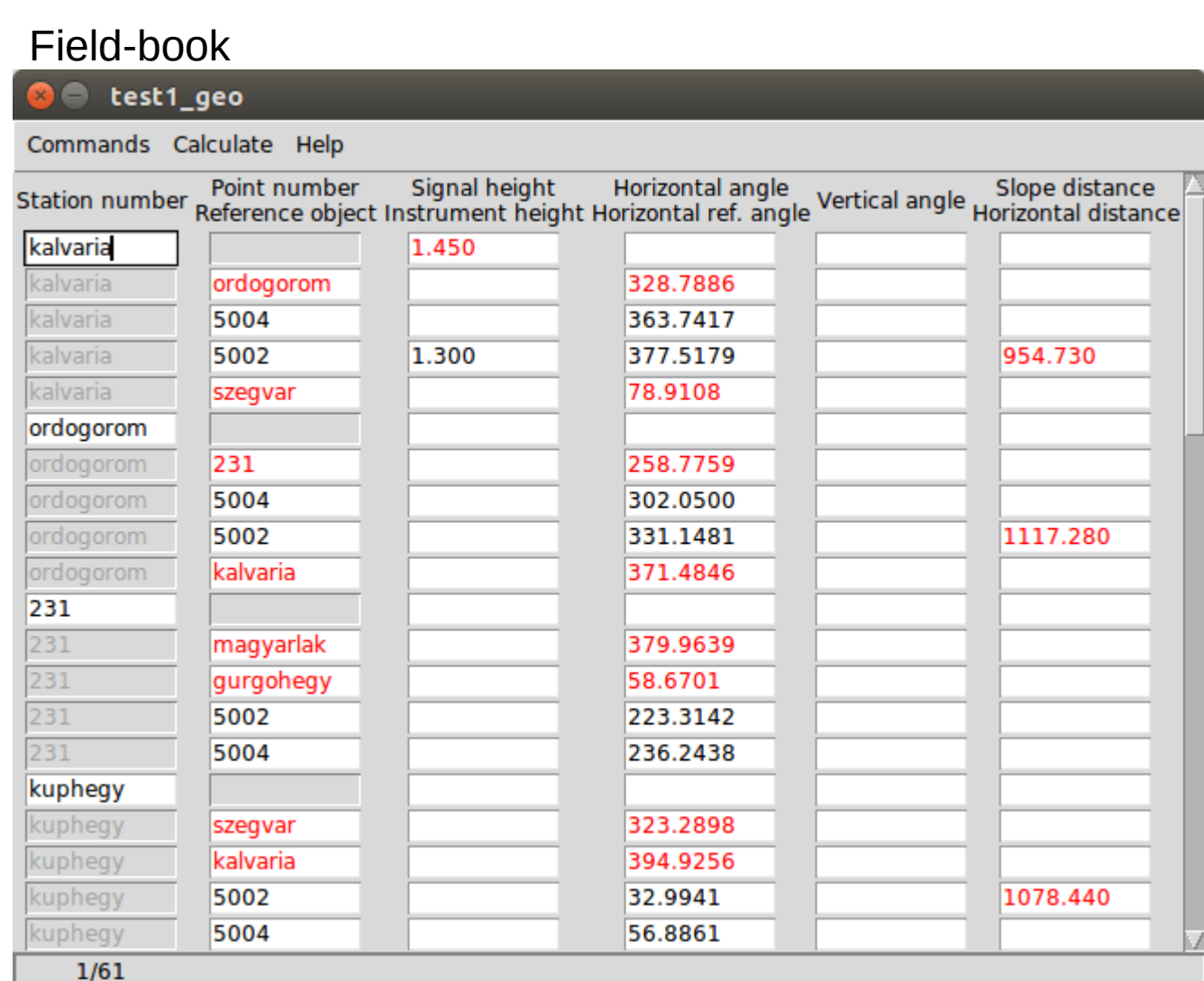
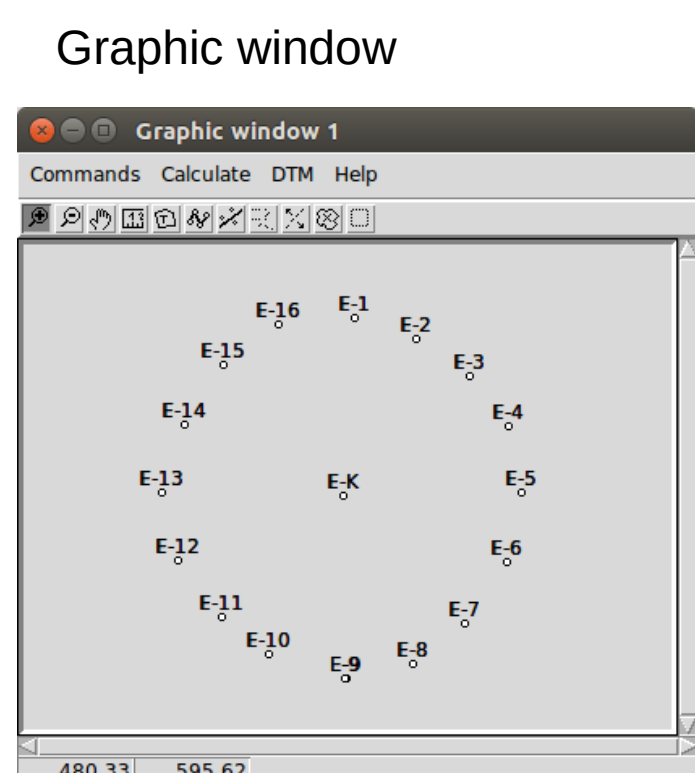
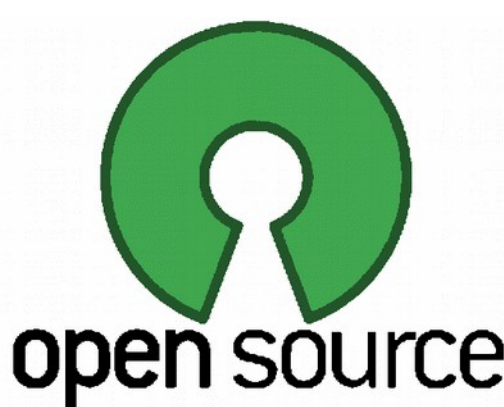


The core development of GeoEasy is made on Linux operating system, using Tcl/Tk script language, thanks to the Tcl/Tk ports to several operating system the program can be used on Linux, on Windows (32 and 64 bit version), on Android tablets and on OSX machines. Intensive tests of the code were made on Linux and Windows only.

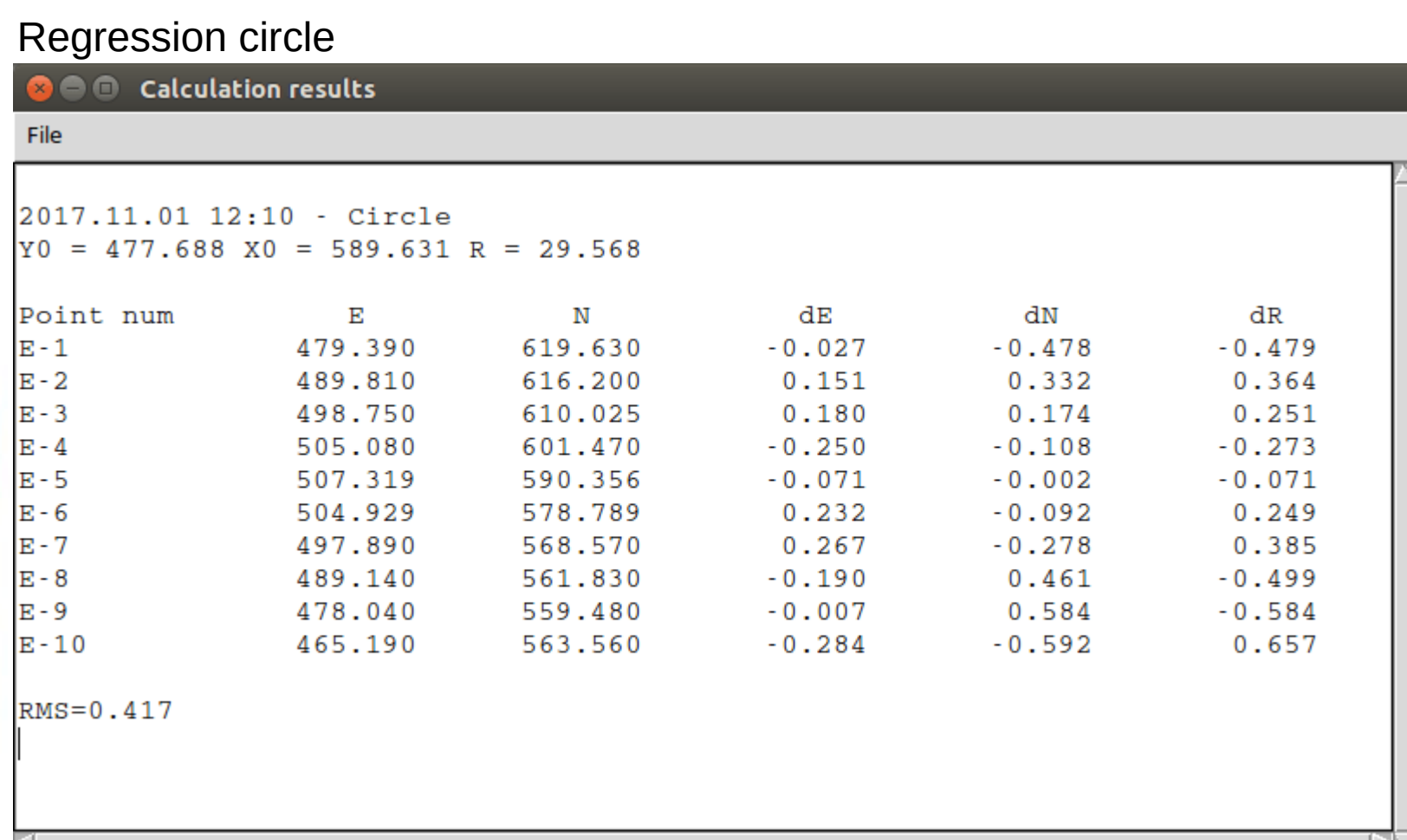
German, Czech, Russian GUI  
Tcl console for your scripts  
Portable windows release  
Variable column widths  
in field-books  
Parallel line regression

Vertical transformation  
KML export of coordinate list  
Many bugfixes  
More than 180 commits and  
43 issues solved after 3.0

- User friendly graphical user interface
- Modular, extendable structure
- Direct process of data from total stations
- Flexibility and openness connecting to other programs
- Educational and professional usage

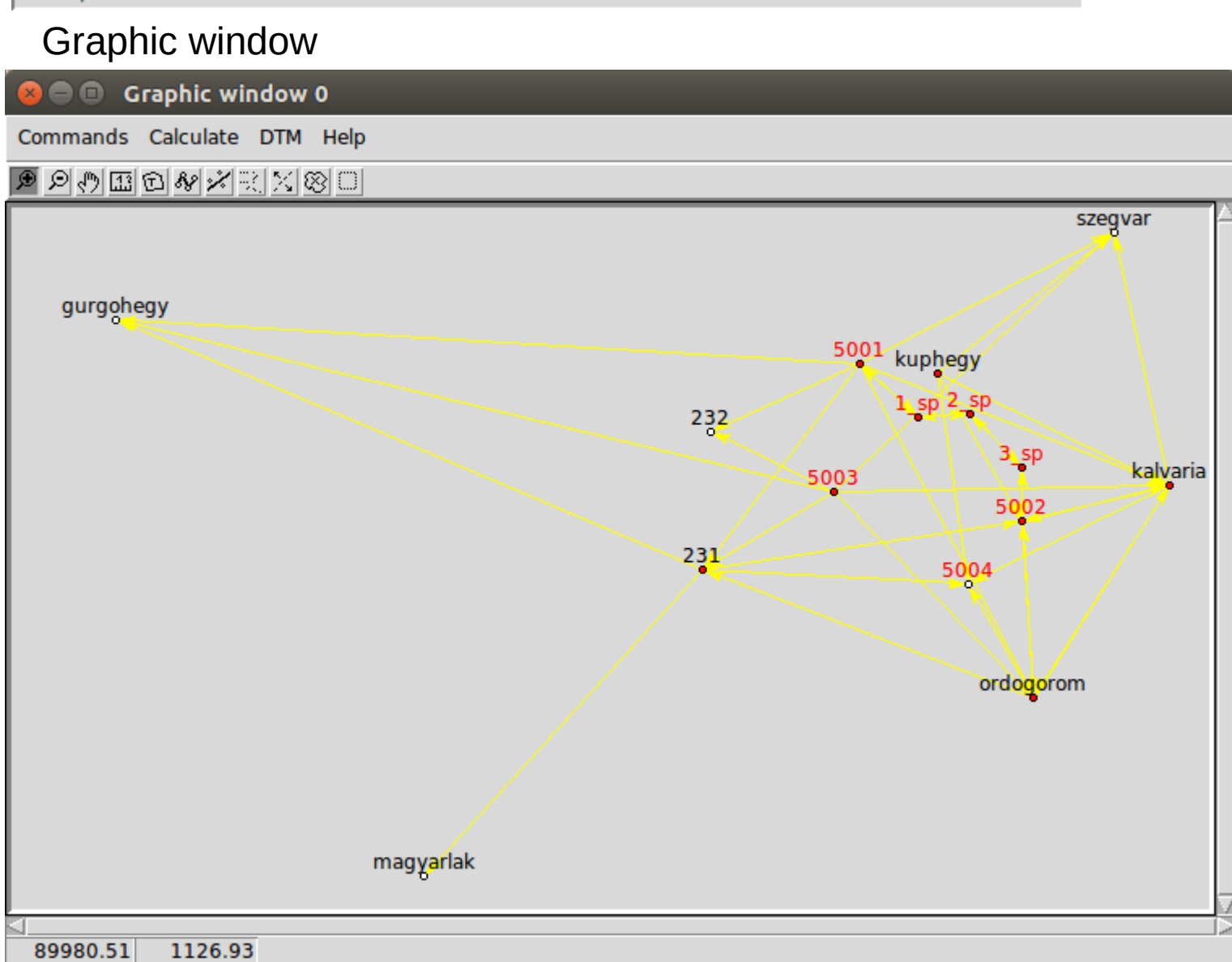


Download the binary releases for Windows and Linux:  
[http://digikom.hu/english/geo\\_easy\\_e.html](http://digikom.hu/english/geo_easy_e.html)



## Development tool

- Console window to run ad-hoc Tcl commands
- Extend the functionality of GeoEasy with user defined scripts loaded from file
- Write your own app using GeoEasy as a library



## Surveying calculations

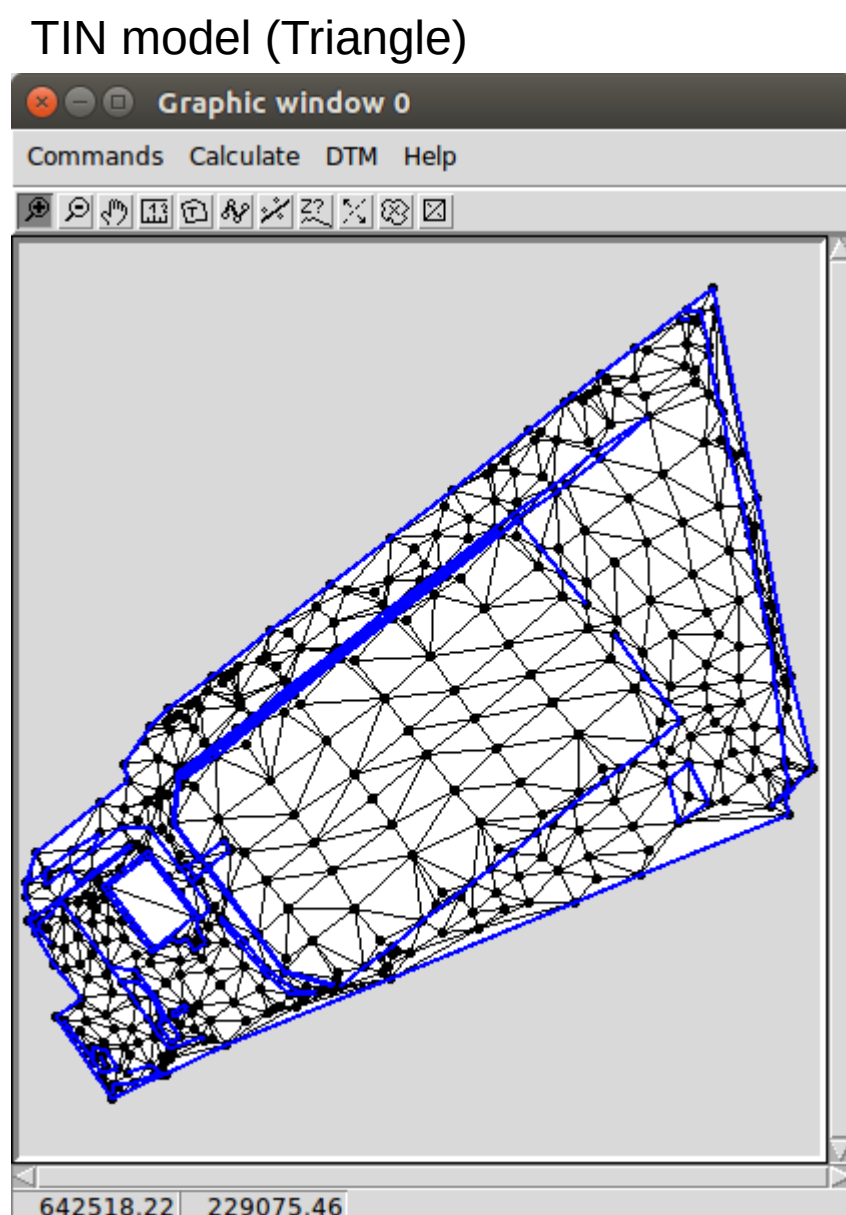
- Edit field-books
- Intersection, resection, orientation, ...
- Traversing, trigonometric line
- Coordinate transformations
- Coordinate list and field-book import (several formats)
- DXF export

## Regression calculation

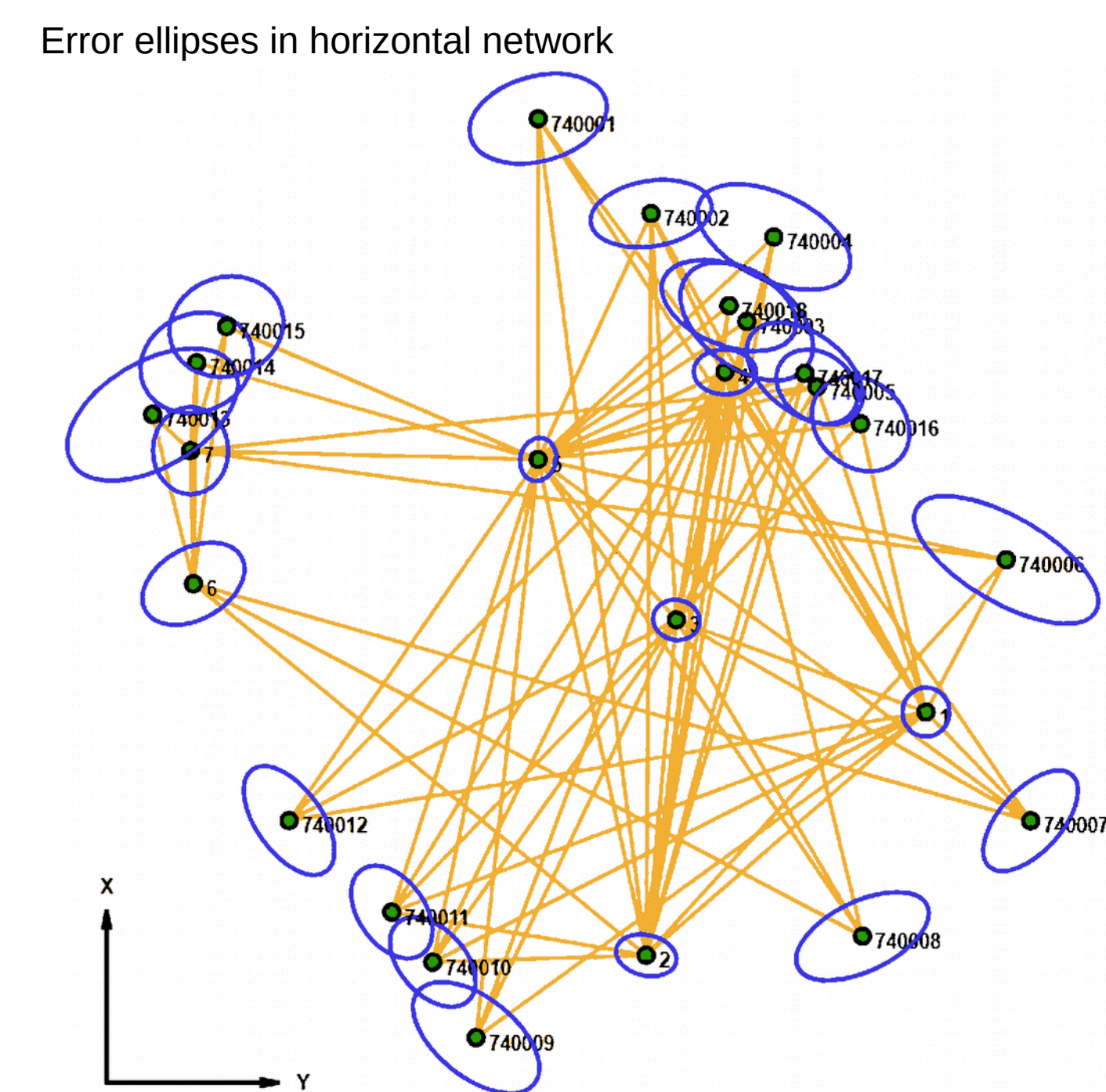
Solving engineering surveying tasks  
Regression lines, plan, circle, sphere,  
3D line, parallel lines

## Digital Terrain Models

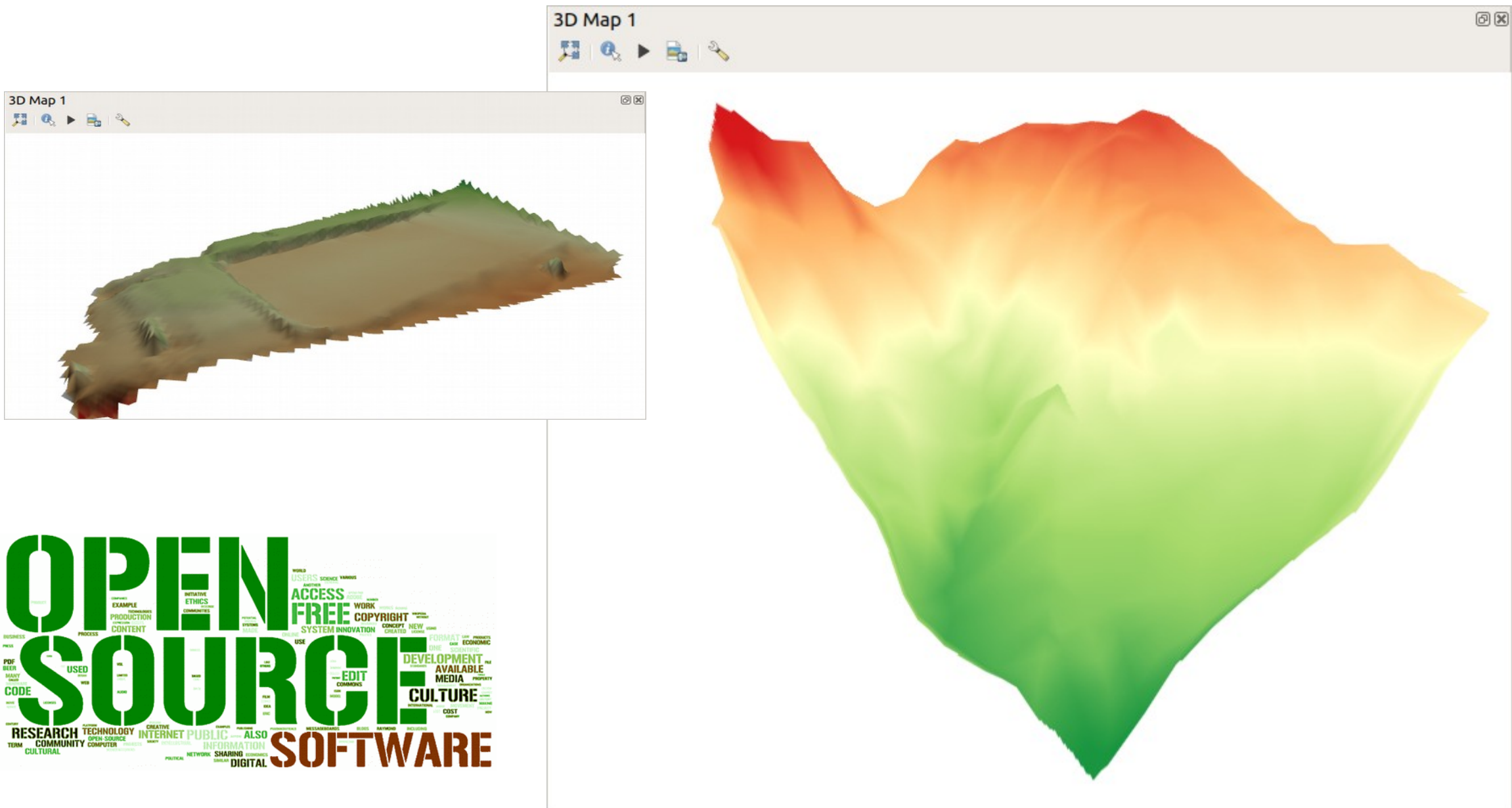
- DXF import
- TIN models
- Break lines
- Contour lines
- Volume calculation
- Cross sections
- VRML, KML, DXF, ASCII GRID export
- Update, regenerate



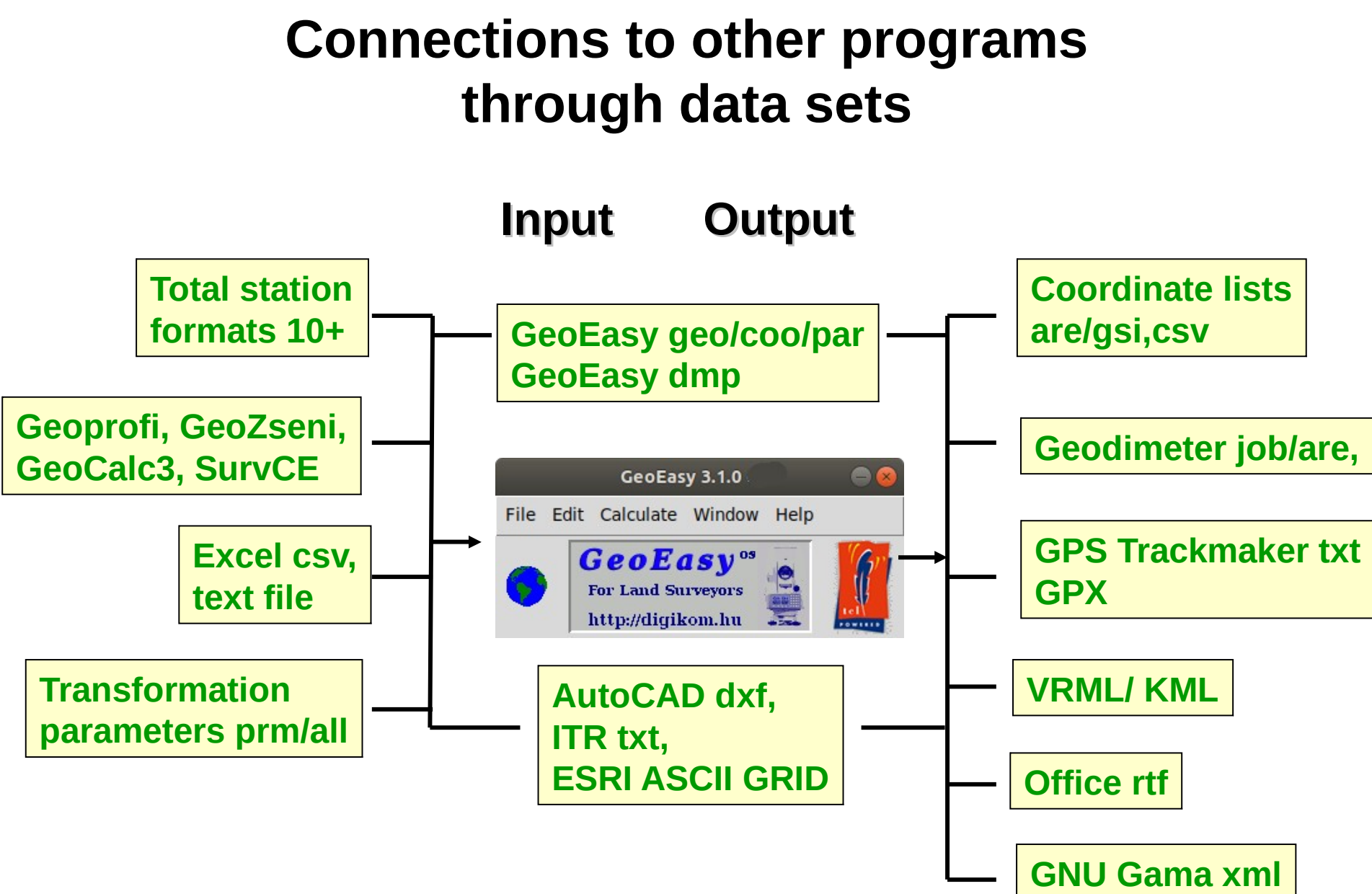
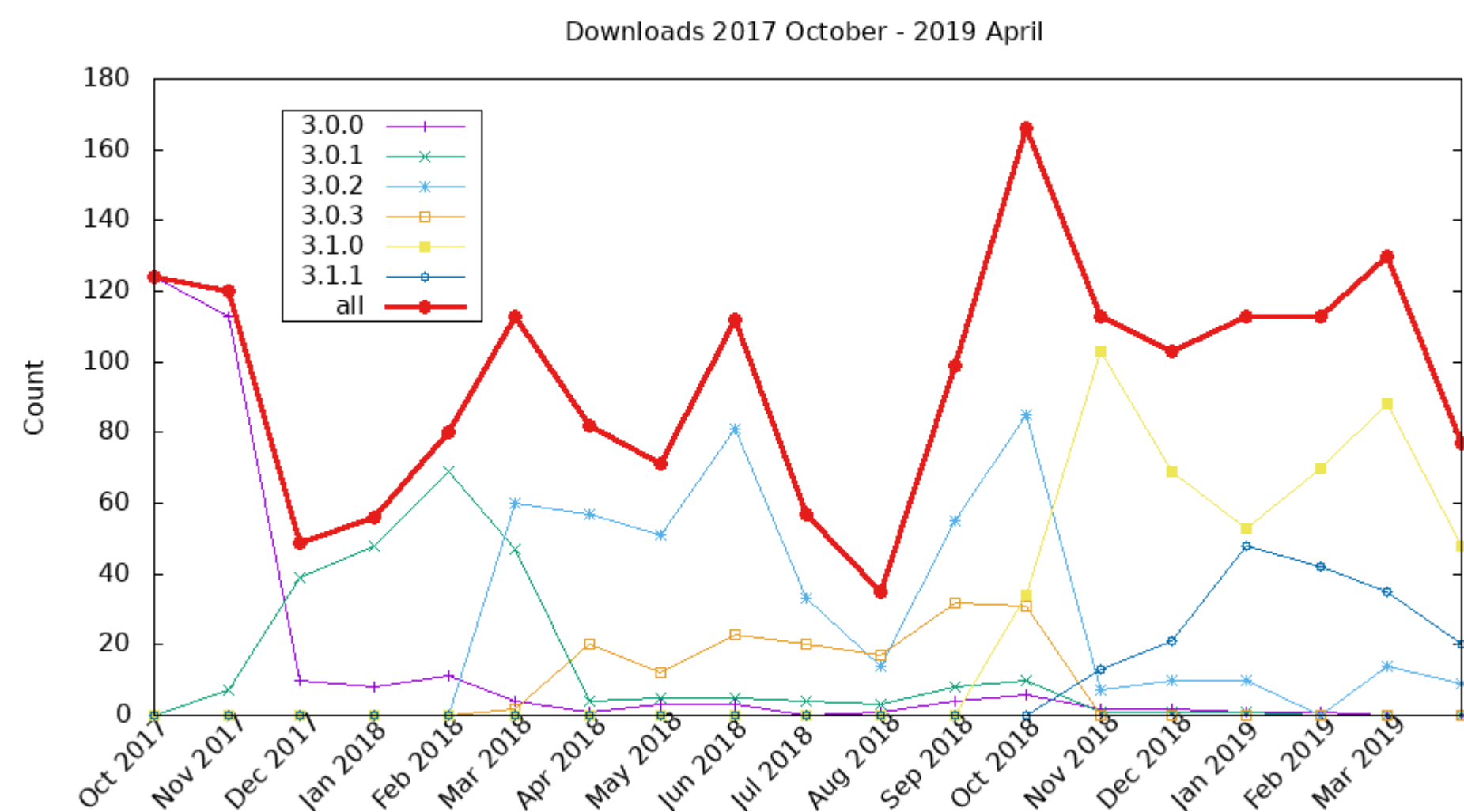
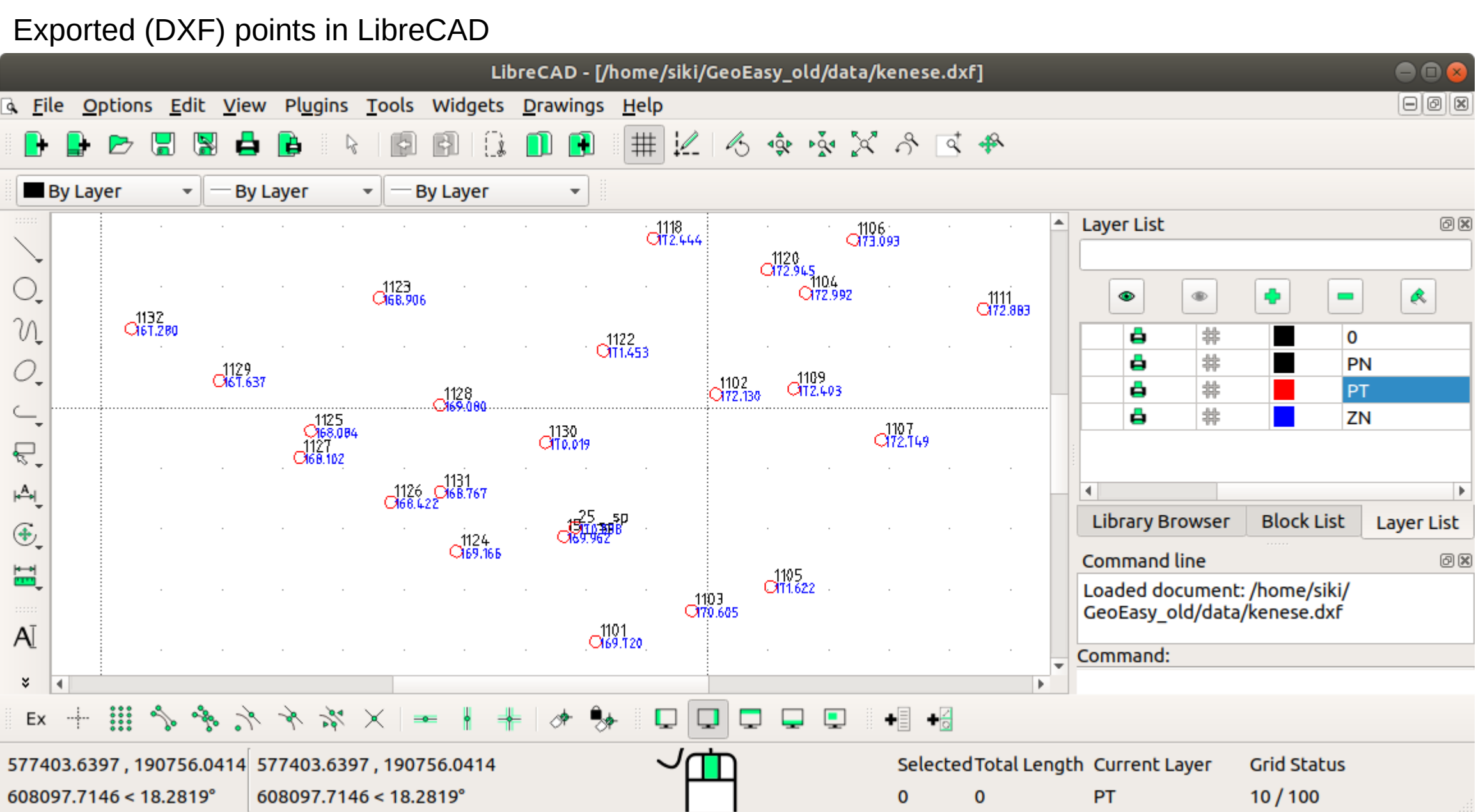
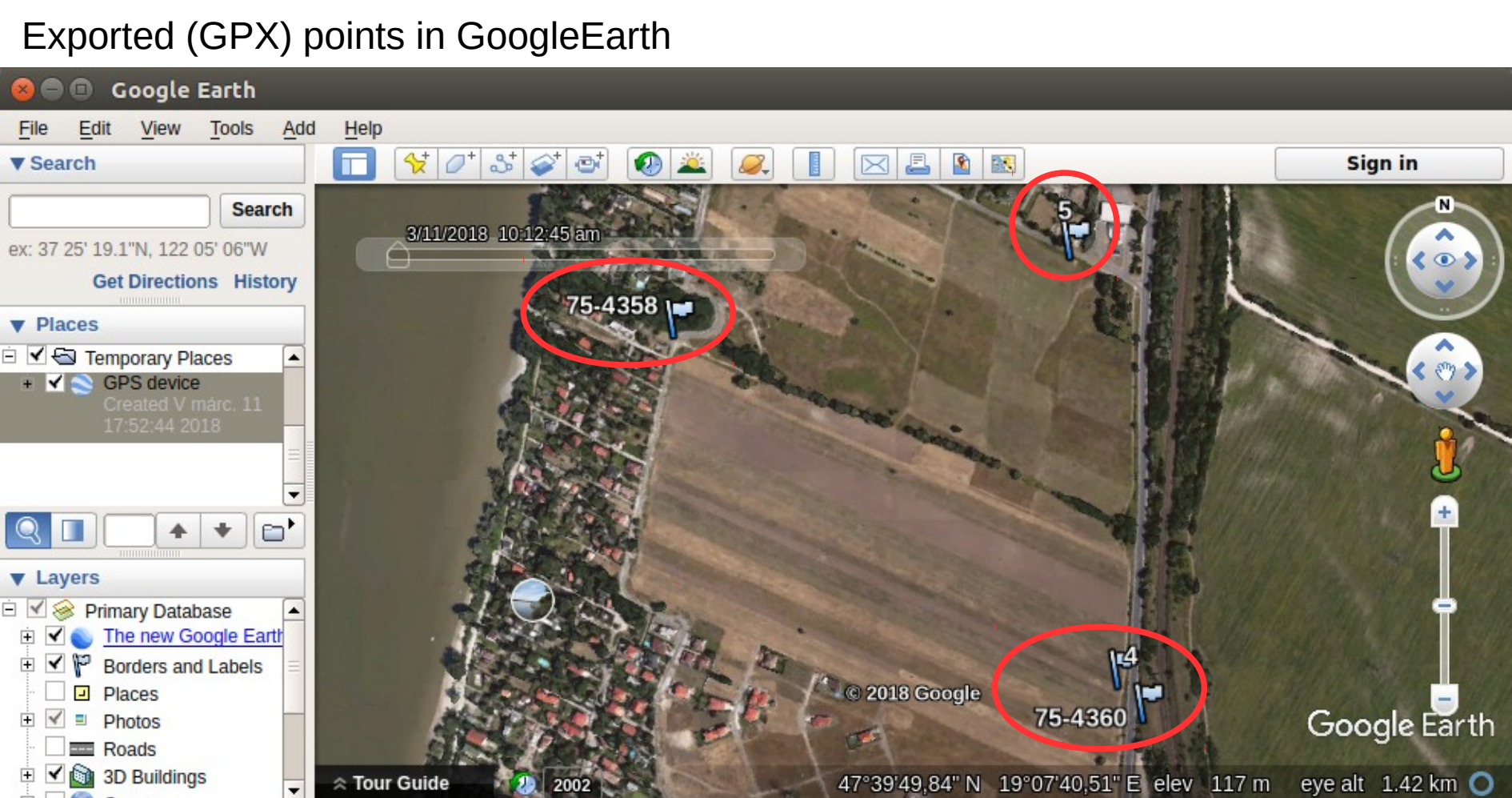
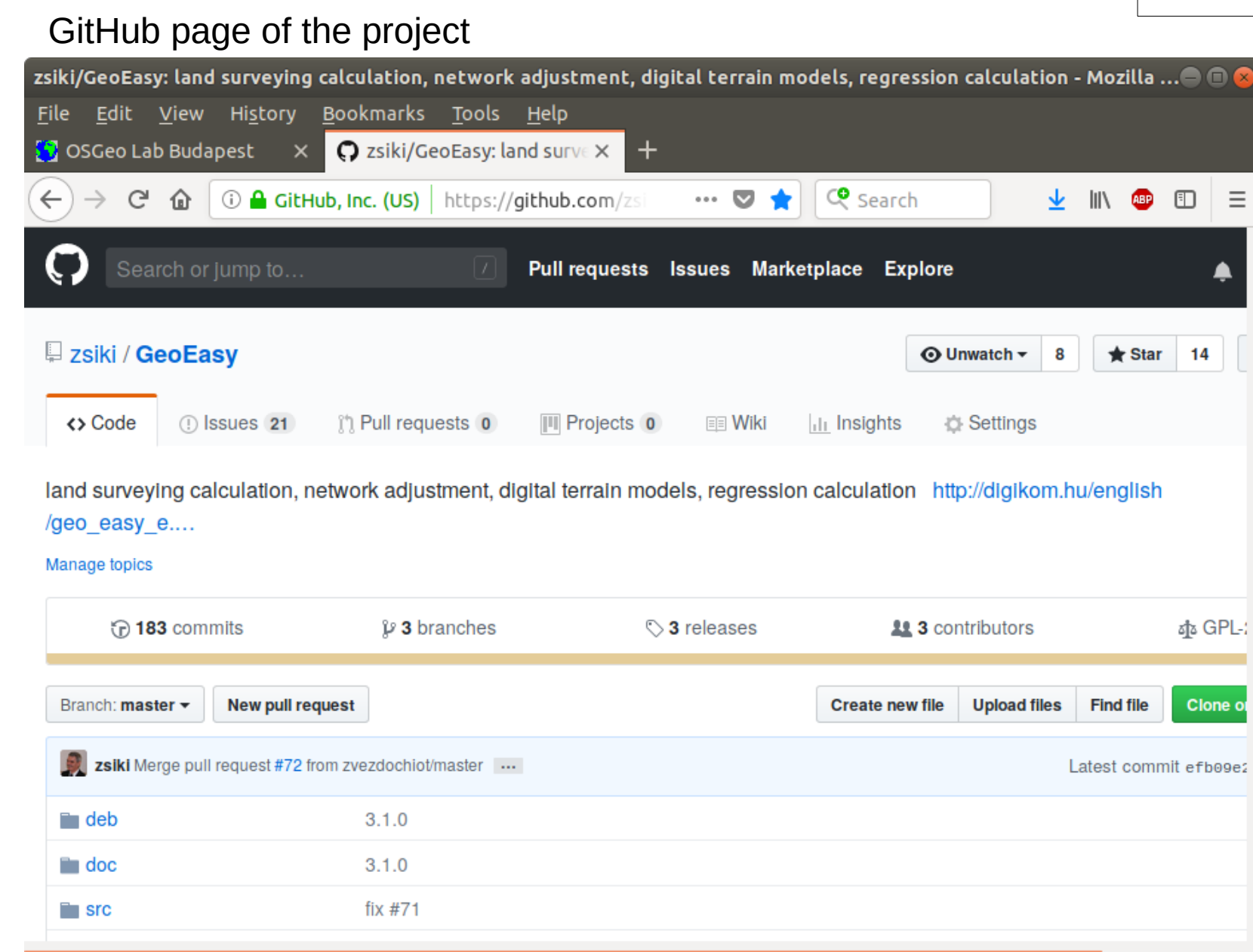
- Network adjustment
- 1D/2D/3D geodetic network
- Normality check
- Data snooping
- Network sketch with error ellipses



Adjustment results (GNU Gama)						
Adjusted coordinates						
*****						
i	point	approximate	correction	adjusted	std.dev	conf.i.
		value	[m]	value	[mm]	==
	1					
17	X *	735.53500	-0.00002	735.53498	0.4	0.7
18	Y *	598.88300	-0.00013	598.88313	0.3	0.7
	2					
23	X *	673.49900	-0.00001	673.49899	0.3	0.6
24	Y *	527.57600	-0.00087	527.57513	0.4	0.8
	3					
1	X *	759.06300	-0.00002	759.06298	0.3	0.6
2	Y *	535.25100	-0.00007	535.25093	0.3	0.6
	4					
36	X *	822.31000	0.00005	822.31005	0.3	0.7
37	Y *	547.62300	-0.00015	547.62285	0.4	0.9

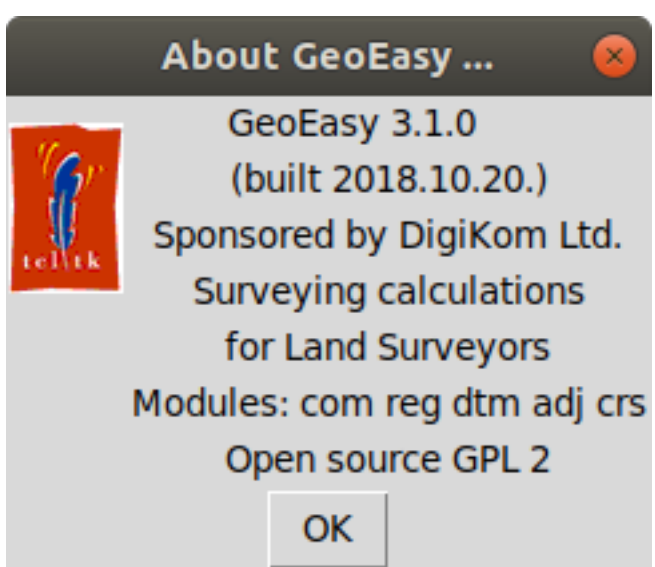


### Exported GRID model in QGIS 3



## OS software used

Tcl/Tk (<https://www.tcl.tk/>)  
GNU Gama (<https://www.gnu.org/software/gama/>)  
Triangle (<https://github.com/MrPhil/Triangle>)  
Proj (<https://proj4.org/>)  
NSIS ([http://nsis.sourceforge.net/Main\\_Page](http://nsis.sourceforge.net/Main_Page))  
Freewrap (<http://freewrap.sourceforge.net/>)



## Let us develop GeoEasy together!

Source code available on GitHub (<https://github.com/zsiki/GeoEasy>)

Report the errors you found in issue tracker (<https://github.com/zsiki/GeoEasy/issues>)

Extend and correct the documentation (<https://github.com/zsiki/GeoEasy/doc>)

Help other users (<https://github.com/zsiki/GeoEasy/wiki>)