

REFERENCES

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Again setting resolution 1 meter

g.region vect=elevpoints rows=269 cols=275

Creating elevation model in tension 40 smoothing 0 and without anisotropy angle and scale from last points

v.surf.rst input=centroid_points elev=elev_map zcolumn=value

APPENDIX

WORKFLOWS

These workflow steps show command lines for creating elevation model from gathered GPS data on mobile device

Import GPS data to mobile GRASS; (...) kml file location on mobile device

v.in.ogr -z dsn=(...)\project22.kml output=Points_GPS

Export .kml data to txt file. (this step is required because Grass does not read kml file z coordinate)

v.out.ascii input=Points_GPS output=.....\points.txt

Import GPS data points with z attribute column

v.in.ascii -z input=.....\points.txt output=elevpoints z=3

Setting regions for 1 meter resolution (rows=269 cols=275 are equal 1 meter resolution values for my project site)

g.region vect=elevpoints rows=269 cols=275

First, elevation model with lower tension, higher smoothing, anisotropy angle and scale.

v.surf.rst input=elevpoints elev=elev_GPS zcolumn=dbl_3 tension=0.1 smooth=20 theta=2.75 scalex=0.25

Setting region depend on new pixel size

g.region vect=elevpoints rows=16 cols=16

Converting pixels to point data

r.to.vect input=elev_GPS output=centroid_points feature=point