ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

RESCIF
Réseau d'excellence des sciences de l'ingénieur de la Francophonie

Summary

Digital Elevation Models – Basic Concepts

Geographic Information Systems

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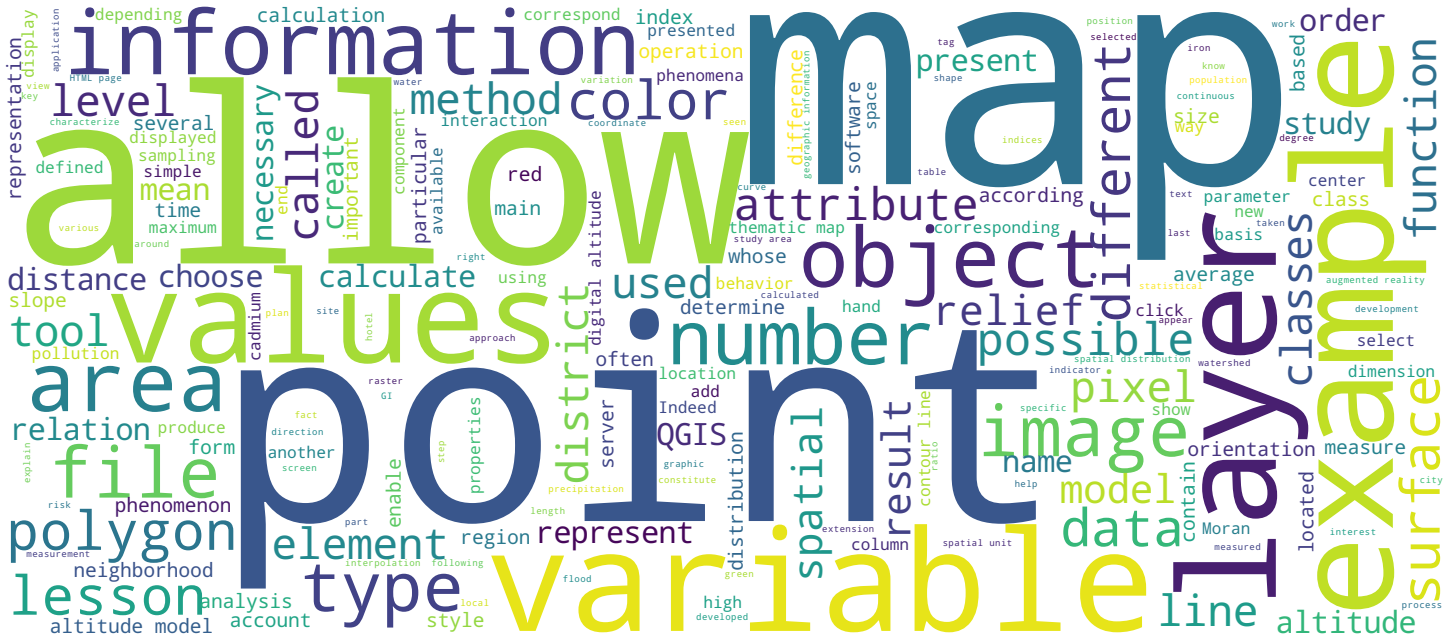

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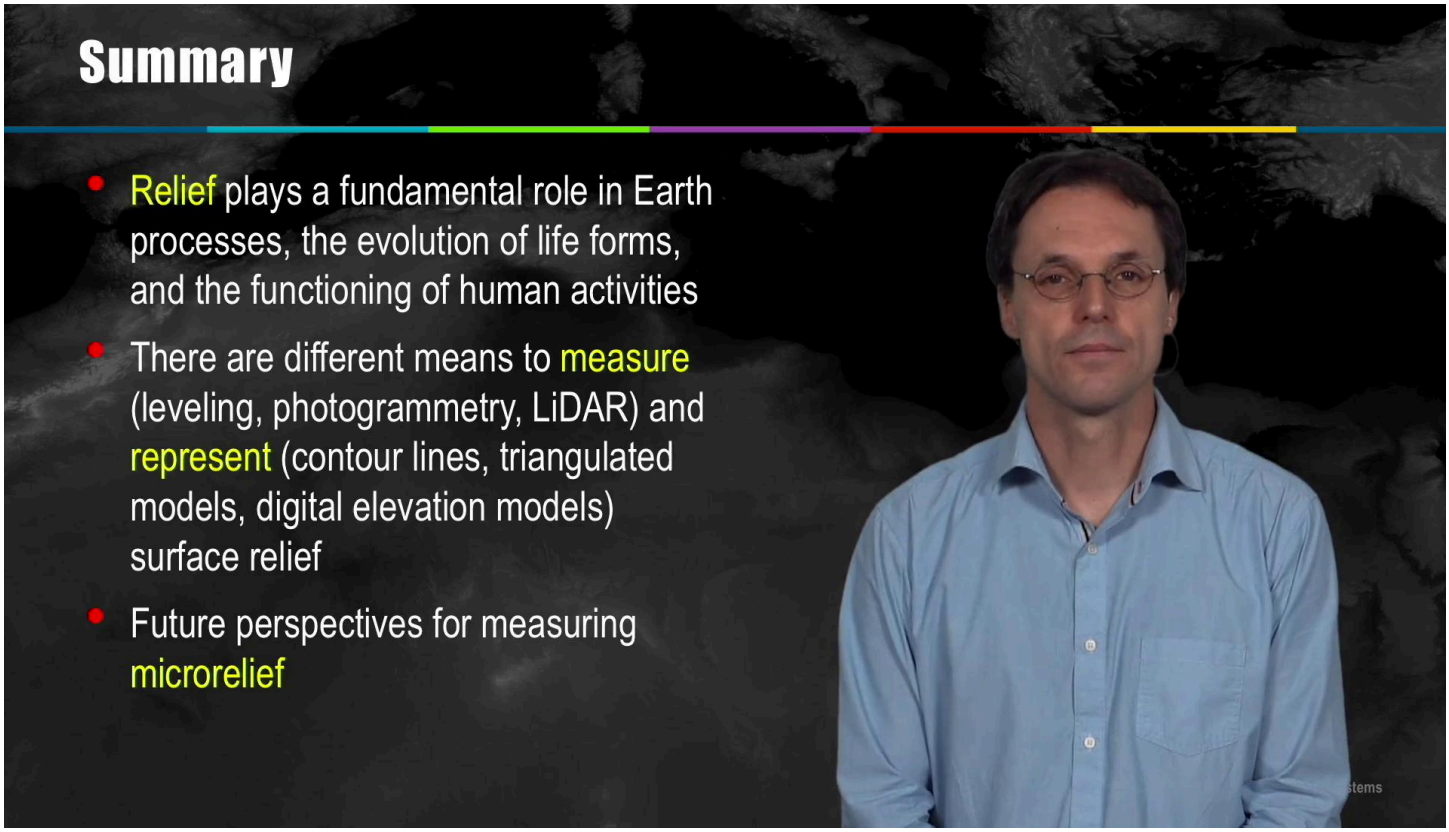

There. We have reached the end of this first lesson dedicated to the digital elevation model. A fundamental point is the very important role of the relief as a determinant factor of the phenomena that occur on the surface of the Earth. Therefore, all the variables that allow to modelize the topography play a very important role in spatial analysis. Starting from the definition of the altitude which is the vertical distance which separates a point from the relief of the surface of the earth geoid we learnt about three methods that allow the measure the geometric leveling, the photogrammetry and the laser scanning altimetry. The latter establishes the advent of the new acquisition technologies that allow to produce digital altitude models of a very accurate precision and which enable the study of the micro-relief that the biologists, geologists, archaeologists or planners can now enjoy.

Notes

Summary

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