

EPFL

Summary

- Many raster-raster interactions can be effectuated through algebraic operators
- These operations can only be implemented if the raster files have the same spatial resolution
- In QGIS, these calculations can be easily implemented

Raster > Raster calculator



The interactions between several raster layers with the same spatial resolution have been theoretically defined in the context of map algebra developed by Charles Dana Tomlin during the 1980s. This theory describes four types of possible operations, including global operations which involve all the pixels of all the layers in the calculations and these are the ones we have described and illustrated in this lesson. In the QGIS software, it is the raster calculator tool that allows us to perform calculations based on the pixel values of an existing raster and to store the results in a new raster layer. We still have to study the interactions between vectorial layers and it is this theme that will be the subject of the next lesson, the last of module three on the analysis of geographic information.

Notes

Summary



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