

RURAL



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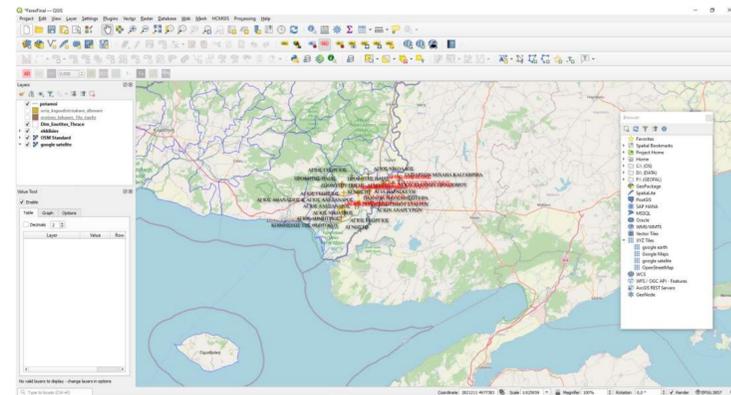
Abstract

Feres Lfe project combines hand on training on digital applications and practice for data collection, analysis and presentation through digital maps and diagrams. Students improved their ability to search for scientific information and datasets, they get involved in data analysis and they performed their own collaborative scientific project. It's of great importance for students in remote areas as they rarely have the chance to participate in a program of non-formal teaching and improve basic skills for their future careers. **Keywords:** Geographic Information Systems (GIS), thematic maps, Feres churches, environmental monitoring, data analysis, QGIS, web-app

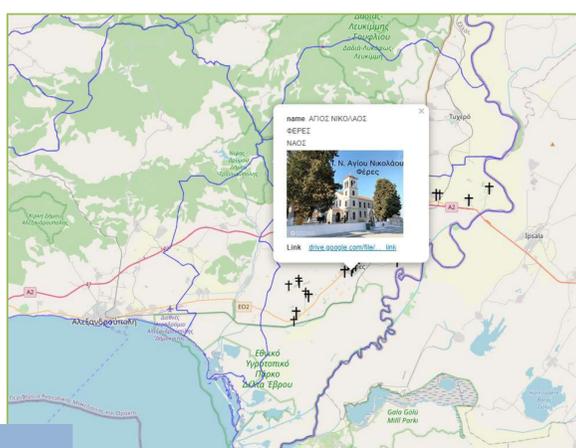
Figures



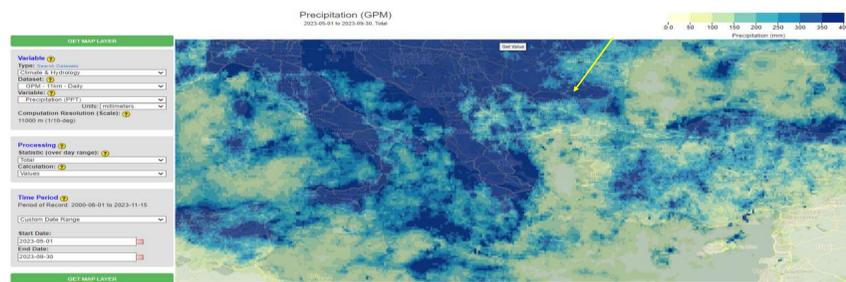
Geographic location of the project area



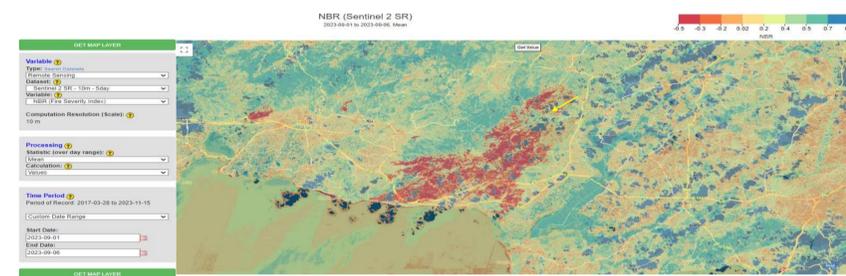
Working QGIS environment for the project



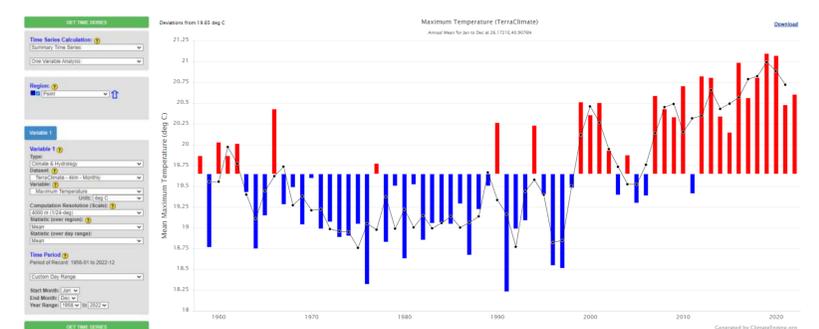
Final interactive thematic map of the Feres' churches



Precipitation (rainfall) data of the Feres area (2023 summer period), exported from climateEngine app



Fire index of the Feres area (September 2023), exported from climateEngine app



Historical data of the max temperature for the Feres area (1958-2022), exported from climateEngine app



Students working for the project

Description

The RURAL (feRes gymnasiUm towaRds digitAL innovation) project, funded by the LfE, improved students' digital skills. Using Geographic Information Systems (GIS) and geospatial data management, the project introduces students to the use of modern digital technologies to present and analyze this data. The main objectives (axes) of the project are a) It enables students to collect and input their own data to create a digital map This project uses an open source GIS software (QGIS) and the final product is in the form of a web interactive map (under the school's webpage) and is easily accessible to all users. In this axis the digital map of the churches of the Municipal Unit of Feres was implemented giving information such the name, the type, the village location and photo of each church. Additionally a linked file was added in some churches in order to present information about them, b) It was used a cloud open GIS data as well as web-based GIS software, the climateEngine app, for the study of the natural environment and climate impact in the area of the Municipal Unit of Feres (soil temperature, drought index, rainfall, greenness, fires, etc.). These data are presented in the form of thematic maps and diagrams.

Share

During the project, young students informed their families and friends in their communities of their work and their aims. Thus, they communicated their work to the local people. They all helped also to collect data about the churches of their area such as photos and other information. We also communicated the results of the project in a teacher's meeting as well as with to the parent community. Furthermore a link was created in the webpage of the school, giving access to the interactive churches' map we created, so everyone can have access to this product.

Link of the project

<https://www.schoolofthefuture.eu/en/osos/osos-project/rural-project>