

User Guide

Introduction

Aratos Disaster Control System is a GIS System (Geographical Information System). This system displays data related to disasters, geographic data (like elevation data) and geophysical elements.

System Data

- Earthquakes – It presents the earthquakes of the last 24 hours- update every 30 minutes.
- Fire Detection – It presents the fires of the last 24 hours- update every 15 minutes.
- Meteorological Data – (wind, soil temperature, atmospheric pressure, humidity, visibility, rainfall) at ~ 160 points in Greece – update every 15-30 minutes.
- Precipitation Index – It gives information about rainfall amounts, as identified from satellite – update every 15-30 minutes.
- Danger Index for fires – once a day – it concerns the next day.
- History of fires – It presents all the fires that have detected from June 2007 and after.
- Burnt Areas: It presents the burnt areas of the regions of Greece as they have obtained after specific treatment.

Use of the system

The System is divided into 3 main areas:




- Map
- Map Control Panel
- Data Control Panel

Map




Here are depicted all data that one user can ask. They come from internal treatment of the system. Here we can apply the tools which are at the Map Control Panel and master the individual operation.

Map Control Panel




Here we can apply various operations. The basic of them are:

- Enlarge: 
Either by choosing a point on the map, automatically the map is magnified and centered at the selected point, either by choosing manually the area of your interest.
- Smaller: 
Same as above. You have to choose the point where the map will be centered after being smaller.
- Pan: 
Just choose the point where the map will be centered.



More operations:


- Revert to original size: 
It returns us the map as it was when we entered the system.
- Back: 
We return at the previous display of the map.
- Front: 
We go at the next level of zooming in or out.

Queries Operations. Every query operation, can exclude the results in various types in order the user can edit them.

- Point of Interest Recognition: 
: It returns us data (if they exist) for the point we have chosen.
- Point of interest Selection: 
We choose initially the type of the data that we want to see. Then, we choose the area and give the query. Data are depicted if they are in the selected area.
- Automatic Recognition of a point of interest: 
It functions as the above operation, but here the data are depicted when the mouse is above from a point.

Finally Operations of Geographic Determinations are provided:

- Measure of distances and areas: 
Choose the point you want to start the measurement. Then continue adding points (with one click) and finish the measurement with double click. A polygon has been created and its area is measured too.
- Depiction for specific point of geographic coordinates: 
Choose the point you want to see the exact geographic coordinates. They are depicted in 3 different systems: LAEA, LatLon and UTM32.

- Add a point of interest: 
You can choose a point and give it a name.

Data Control Panel

The Data Control Panel, assumes the categorization and depiction of the data. Moreover, depending on type of data, provides us information, just like the statement, detailed information etc.

Generally, the data that are depicted, are divided into 2 categories: vector and images (raster). Examples of vector data are the direction of wind or the point that a fire was detected. Examples of raster data, are the image of clouds that are received from satellites.

Working with data control panel

Via the Data Control Panel, we can enable or disable the data that interests us or not. We enable or disable the corresponding field (checkbox) with the data we want. The data are depicted automatically. We can see the statement (for vector data only), by choosing the cross (+) next from the field. Finally more detailed information (if it is available) can we obtain by choosing the info button.

