

GGroundPlotPanel

De Wiki

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This widget exists **since V1.8**. It consists in plotting ground tracks above a planisphere represented by an image. To do this, we must:

- get a file (or several ones) including a serie of latitudes and longitudes corresponding to the trajectory we want to plot.
- create a [GroundTrackDataProvider](#) object in charge of reading the data included in the file(s). Note that the format of the file is not dependant of **GENIUS** as the way to read it will be defined via the [getData\(\)](#) method of the GroundTrackDataProvider class. Anyway, we will have the possibility to use **GENIUS** methods proposed in the [[Results File Management](#)] paragraph.
- then calling the [GGroundPlotPanel](#) object to be displayed

The following example shows how to do it. In order to give an example with several ground tracks (here two) our GroundTrackDataProvider object will be in charge to read a single file then to store read data in two different coordinates list, the second one shifted by 90 degrees from the first one. To see details of the [openDbFile\(\)](#) and [scanFile\(\)](#) methods, see the specific example in tutorials.

```
GroundTrackDataProvider prov = new GroundTrackDataProvider() {

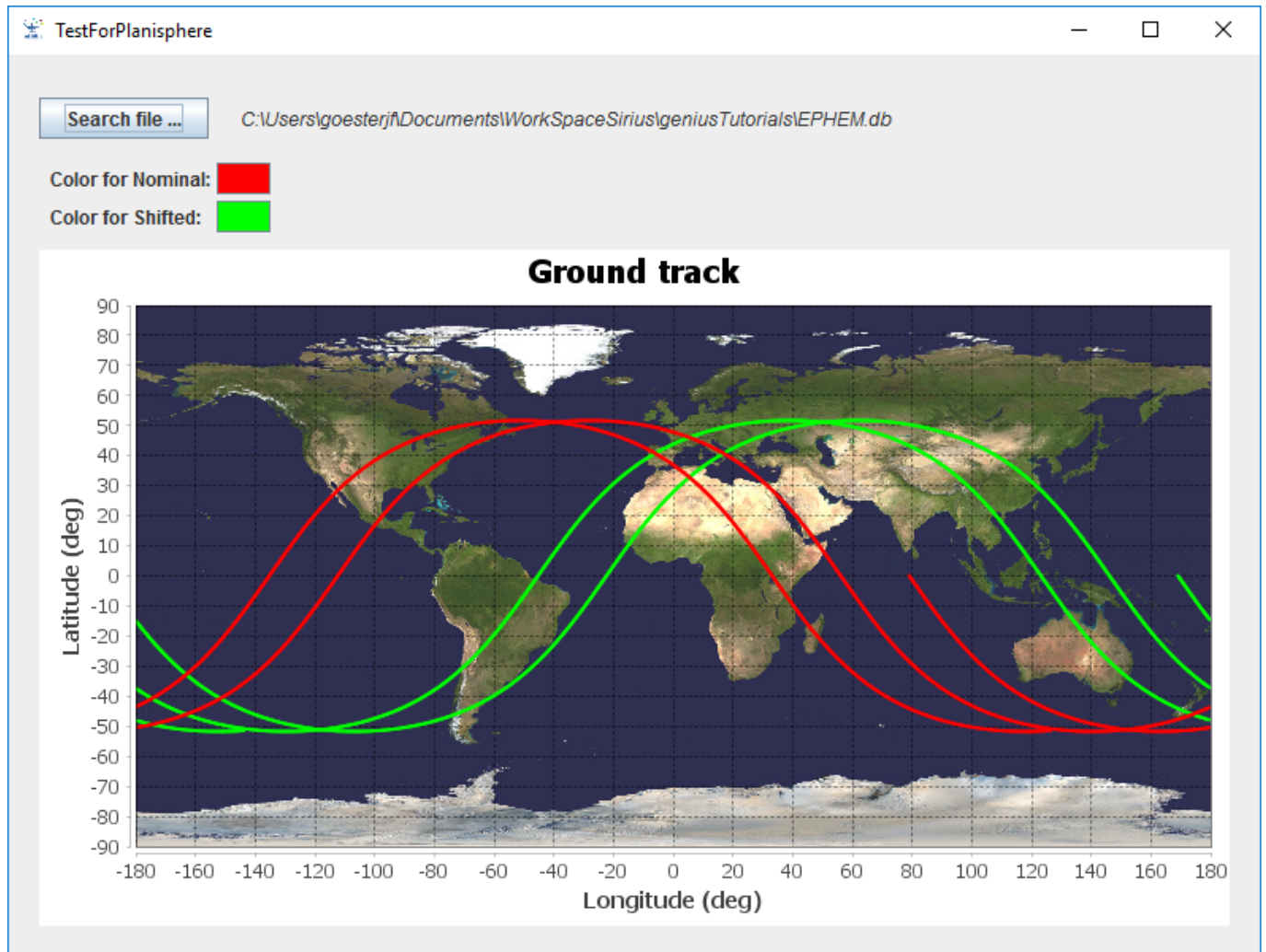
    @Override
    public List<GCoordinatesData> getData(String fileName) {
        final ArrayList<GCoordinatesData> listOfData = new
ArrayList<GCoordinatesData>();

        // Open, read and plot trajectory
        openDbFile(fileName);
        ArrayList<Double[]> data1 = scanFile(0, 0.);
        ArrayList<Double[]> data2 = scanFile(0, 90.); // 90 degrees shift
        listOfData.add(new GCoordinatesData("Nominal", data1, Color.RED,
null, DEG180, DEG90));
        listOfData.add(new GCoordinatesData("Shifted", data2, Color.GREEN,
null, DEG180, DEG90));

        return listOfData;
    }
};

plot = new GGroundPlotPanel(prov);
```

Then loading data from a file including latitude/longitude, you may obtain this result:



Note that to unzoom this plot, the usual menus are not effective and you will have to click and drag towards the left.

Récupérée de « <http://genius.cnes.fr/index.php?title=GGroundPlotPanel&oldid=649> »

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