

Quick start

De Opera

[Aller à la navigation](#) [Aller à la recherche](#)

La version imprimable n'est plus prise en charge et peut comporter des erreurs de génération. Veuillez mettre à jour les signets de votre navigateur et utiliser à la place la fonction d'impression par défaut de celui-ci.

OPERA proposes a lot of options and configurations. Anyway, in order to allow starting first computations very quickly, the **OPERA GUI** proposes many parameters set to default values.

□

Sommaire

- [1 Launch the main GUI](#)
- [2 Mandatory data](#)
- [3 Select Norad Ids](#)
- [4 Computation](#)

Launch the main GUI

To launch the **GUI** you only have to double click on **Windows** systems or type :

```
java -jar opera-xx.x-jar-with-dependencies.jar
```

First time the **GUI** is launched, a specific directory (**OPERA_DATA/**) with its sub-directories (**context/**, **outputrun/**, **results/**, **work/** and **AdditionalPatriusData/**) will be created if it does not already exist. These directories will be used to store data/results working files. Note that the name of these directories may be changed (see this specific [page](#) on properties files).

Mandatory data

If many data are already included in the jar file (solar activity, force models data, ...), no **TLE** data are directly provided. So the user will have to get it for example via the [\[Space-Track site\]](#). By default, these **TLE** will be stored: in the **tle/** subdirectory with the following organization: **XXX/YY/XXXYY.tle** file where **XXX** are the first three digits of the NoradId; **YY** are the last two digits of NoradId. The **.tle** contains history of **TLE** for this NoradId; see this example below ..

```
ERS 5 (Decayed 2011-11-11)
1 00579U 63014B 10315.35410215 .00050969 00000-0 82126-2 0 1077
2 00579 084.5011 267.0530 1931516 238.6291 101.2672 11.27537314522093
ERS 5 (Decayed 2011-11-11)
1 00579U 63014B 10315.88649764 .00051504 00000-0 82497-2 0 1086
2 00579 084.5012 266.8438 1931883 237.5999 102.3933 11.27595044522151
...
ERS 5 (Decayed 2011-11-11)
1 00579U 63014B 11314.41371939 .16010326 46685+0 20567+0 0 5309
2 00579 084.2585 103.8765 0162025 156.5631 204.1730 15.54826774565617
```

So, in order to start easily, some files are available as examples (to put in the OPERA_DATA/tles directory) → [here](#) ←

Select Norad Ids


Based, for example, on the data given in the previous downloaded file, we can select which orbital objects to study. Different ways of selecting them are available (see this specific [page](#) on the topic) but, as an example, we will use the simplest one, giving directly the Norad Ids by clicking on the **Add** button. We will enter the following integer numbers separated by blank characters:



By clicking on **OK**, the two objects are well selected and recognized (because files exists int the **tles/** directory!) as we can see it:




Computation

Now, it will be possible to start a computation by clicking on the  button. Unfortunately, the computation exits in error status with such a message:

TLEs was found in the requested time window. The last available date is xxxxx days too old

This error is due to the fact that, by default, the "End of history" date is the current date and is too far from the actual reentry dates of these objects. So, in order to get results, we will have to change this date, entering this one: **24/11/2011 00h00m00s**

Clicking again on the  button will then give these output results:



Récupérée de « http://opera.cnes.fr/index.php?title=Quick_start&oldid=656 »

Menu de navigation

Outils personnels

- [Se connecter](#)

Espaces de noms

- [Page](#)
- [Discussion](#)

français

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Voir l'historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

OPERA

- [Welcome](#)
- [Quick start](#)
- [News](#)

GUI Mode

- [Overall presentation](#)
- [Operaapp configuration file](#)
- [Configuration panel](#)
- [Solar activity panel](#)
- [Parameters panel](#)
- [Console panel](#)
- [Result files](#)
- [Plots panel](#)

Batch mode

- [How to call it](#)

Java interface

- [Basic principle](#)
- [Reentry or S/M Estimation](#)
- [Maneuvers Estimation and Pdf report](#)
- [Searching Norad Ids](#)
- [Tutorials](#)

Evolutions

- [Main differences between V7.2.3 and V7.2.4](#)
- [Main differences between V7.2.2 and V7.2.3](#)
- [Main differences between V7.2.1 and V7.2.2](#)
- [Main differences between V7.2 and V7.2.1](#)

Documentation

- [Conference Papers](#)

Links

- [CNES freeware server](#)

Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Lien permanent](#)
- [Informations sur la page](#)
- [Parcourir les propriétés](#)
- [Citer cette page](#)

- La dernière modification de cette page a été faite le 9 mars 2021 à 16:48.
- Cette page a été consultée 2 200 fois.

- [Politique de confidentialité](#)
- [À propos de Opera](#)
- [Avertissements](#)

