

# Main differences between V11.5 and V11.6.2

De Wiki

Aller à : [navigation](#), [rechercher](#)

[Main differences between V11.5 and V11.6.2](#)

## Sommaire

- [1 Dependencies](#)
- [2 Package names](#)
- [3 Events logs improvements](#)
- [4 Orbit file as output](#)
- [5 New EXM and EYM variables](#)
- [6 Complex potential for third bodies](#)
- [7 More explicit console output](#)
- [8 Events names getter](#)

## Dependencies

This version uses [GENOPUS](#) V2.3.3, [GENIUS](#) V1.11.4 and [PATRIUS](#) V4.8.

## Package names

Package have been renamed to be consistent with other tools. So, they starts with **fr.cnes.dynvol.psimu** ... When using the **GUI** mode, no change is visible but, when using the **Java** interface, an update of the import will be necessary.

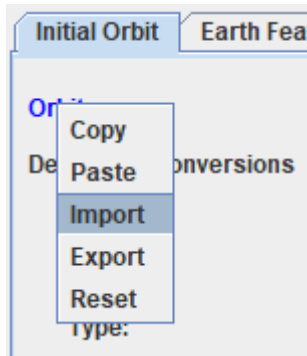
## Events logs improvements

Logs for events are improved as all the events are taken into account and not only the ones defined in the [Events panel](#):

- First and last point
- Start and end of a maneuver (even in case of an impulsive one to see the discontinuity)
- Start and end of each attitude change.

## Orbit file as output

There is now the possibility to store the final orbit parameters in a specific file. These parameters will be cartesian ones in the inertial output frame defined in [Output panel](#). And, of course, this file can be imported directly in the "**Initial Orbit**" panel!



## New EXM and EYM variables

Two new variables have been added corresponding to the components of the mean eccentricity vector: **EXM** and **EYM**.

Note also that now, these variables as well as **EX** and **EY** (components of the osculating eccentricity vector) corresponds exactly to:

$$Ex = \cos(w) \text{ and } Ey = \sin(w)$$

... as, previously, these variables was considered as the components for equinoctial parameters.

## Complex potential for third bodies

Inline with the new [GPForceModels](#) widget from [GENOPUS](#), there is now the possibility to consider complex potential fields for third bodies.

## More explicit console output

Console output is more explicit now as described [here](#).

## Events names getter

Methods are available to get the events names (see [PsimuUsingUtils](#) class in [TutorialsForV11.6](#))

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## Menu de navigation

### Outils personnels

- [3.128.31.184](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

## Espaces de noms

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

## Variantes

## Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

## Plus

## Rechercher

## PSIMU

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

## GUI Mode

- [Overall presentation](#)
- [Initial Orbit](#)
- [Earth features](#)
- [Vehicle](#)
- [Forces](#)
- [Maneuvers](#)
- [Attitude](#)
- [Integrator](#)
- [Events](#)
- [Output](#)
- [Console](#)

## Batch mode

- [How to call it](#)

## Java interface

- [Basic principle](#)
- [Data initialization](#)
- [Propagation](#)
- [Printing results](#)
- [Customize output variables](#)

## Evolutions

- [Main differences between V11.7.3 and V11.7.4](#)
- [Main differences between V11.7.2 and V11.7.3](#)
- [Main differences between V11.7.1 and V11.7.2](#)
- [Main differences between V11.6.2 and V11.7.1](#)
- [Main differences between V11.5 and V11.6.2](#)
- [Main differences between V11.4.1 and V11.5](#)
- [Main differences between V11.4 and V11.4.1](#)
- [Main differences between V11.3 and V11.4](#)
- [Main differences between V11.2 and V11.3](#)
- [Main differences between V11.1 and V11.2](#)
- [Main differences between V11.0 and V11.1](#)

## Training

- [Tutorials package for V11.7.x](#)
- [Tutorials package for V11.6](#)
- [Tutorials package for V11.5](#)
- [Tutorials package for V11.4](#)
- [Tutorials package for V11.3](#)
- [Tutorials package for V11.2](#)
- [Tutorials package for V11.0](#)

## Links

- [CNES freeware server](#)

## Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)

- [Information sur la page](#)
- [Citer cette page](#)
  
- Dernière modification de cette page le 8 mars 2022 à 07:38.
  
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

