

# Events

De Wiki

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

[Events](#)

First, as for maneuvers or attitude sequences, the user will have to select a reference date with two possibilities:

- “**custom**” : a specific date will be entered by the user
- “**external**” : in that case no modification of the date is available as it corresponds to the date defined in the initial orbit parameters (note that this date is automatically updates if the initial orbit date is modified).

Reference Date:

Date mode:  custom  external

External date:  [UTC](#)

Then, the user will have access to a list of orbital events. These events will be stored in the output files.

Amount of events \*

▼ Event1 [Item +/-](#)

Type of Event \*

Display event config

Relative Date Detector \*

Relative date: \*  [s](#)

Display expert config

▼ Event2 [Item +/-](#)

Type of Event \*

Display event config

AOL Detector \*

AOL: \*  [deg](#)

Type: \*

Frame: \*

Start at occurrence: \*

Display expert config

The available events to detect are:

- **Absolute date**
- **Recurrent Absolute date**: same as above but with possibilities of recurrent events (since V11.4).
- **Relative date**: defined with respect the reference date defined at the top of the events tab.
- **Recurrent Relative date**: same as above but with possibilities of recurrent events (since V11.4).
- **AOL**: argument of latitude defined by the angle value, the anomaly type (true, eccentric or mean) and the reference equator with respect the AOL is computed (GCRF, EME2000). and CIRF).
- **Altitude**: permits to define a certain geodetic altitude.
- **Eclipse**: eclipse events either "entering the eclipse" or "exiting the eclipse" or both are registered.
- **Local time**: permits to define a certain local time.
- **Station visibility**: events entering the field of view or existing the field of view are registered. The station visibility is determined thanks to the station's location (latitude, longitude and altitude).
- **Node**: ascending or descending ones (since V11.4).
- **Apside**: perigee or apogee events (since V11.4).

**Warning : for events which allows distinguishing between "enter"/"exit" events (as eclipse or ground stations visibility), the fact to select "both" (see next figure), does not mean to select "enter" AND "exit" but "enter" OR "exit".**

The screenshot shows a configuration window for an event named 'Event1'. The window has a title bar with a dropdown arrow and the text 'Event1', and a link 'Item +/-' on the right. The main content area is a form with the following fields and controls:

- Event: \*** (Label)
- Type \*** (Dropdown menu): 'Visibility From Station'
- Display event config**
- Visibility from Station Detector \*** (Label)
- 
- Ground station: \*** (Label)
- Ground station: \*** (Dropdown menu): 'TEST'
- Ground station: \*** (Label)
- Name: \*** (Text input): 'TEST'
- Coordinates type:** (Label)
- Geodetic**  **Cartesian**
- Latitude:** (Text input): '0.0' with a unit dropdown 'deg'
- Longitude:** (Text input): '0.0' with a unit dropdown 'deg'
- Altitude:** (Text input): '0.0' with a unit dropdown 'm'
- Display ellipsoid configuration**
- Half-aperture:** (Text input): '90.0' with a unit dropdown 'deg'
- Event type: \*** (Label)
- Entry**
- Exit**
- Both**
- Triggering: \*** (Label)
- Single**  **Multiple**
- At \*** (Text input): '1' with a unit dropdown 'st occurrence'
- Display expert config**

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## Menu de navigation

### Outils personnels

- [18.220.32.12](#)
- [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](#)

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

