

GPAbsoluteDate

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How to call it

For using the [GPAbsoluteDate](#) class, the developer has only to create such an object with these two possibilities:

```
gpDate = new GPAbsoluteDate("Date:");
```

... or, if we want to initialize the widget with a predefined date value:

```
final TimeScale TUC = TimeScalesFactory.getUTC();  
final AbsoluteDate date0 = new AbsoluteDate(2010, 1, 1, 0, 0, 0., TUC);  
gpDate = new GPAbsoluteDate("Date:", date0);
```

Here we have a complete example of a class allowing displaying such a widget using [\[GENIUS\]](#) functionalities (in the next examples, we will no more present such complete examples):

```
public class TestGPAbsoluteDate extends GPanel {  
  
    private GPAbsoluteDate gpDate;  
  
    public TestGPAbsoluteDate() {  
        gpDate = new GPAbsoluteDate("Date:");  
    }  
  
    public void generic() throws GException { put(gpDate); }  
    public void display() throws GException { generic(); }  
  
    public static void main(String[] args) throws OrekitException {  
  
        PatriusDataset.addResourcesFromPatriusDataset();  
  
        TestGPAbsoluteDate test = new TestGPAbsoluteDate();  
    }  
}
```

```

    GFrame frame = new GFrame("Absolute date", test);
    frame.display();

}

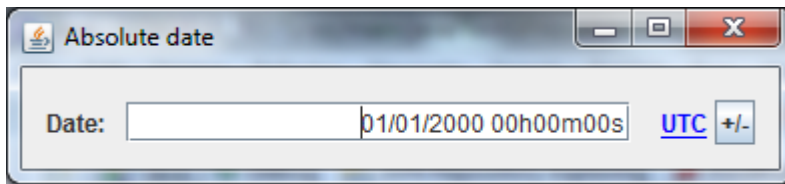
}

```

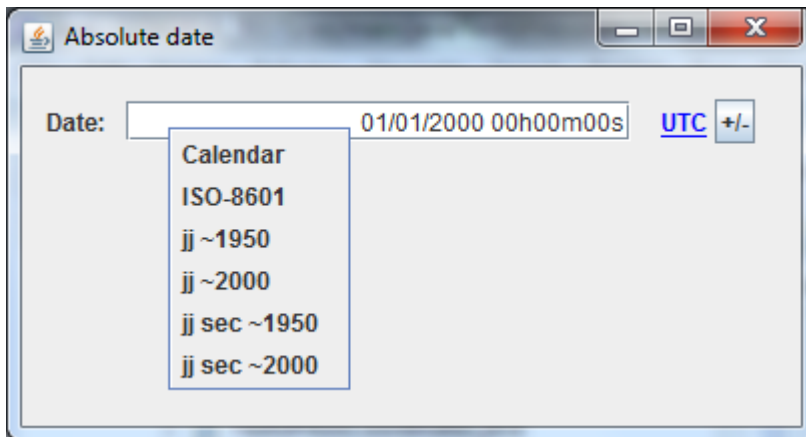
Note: it is mandatory to link with [[PATRIUS_DATASET](#)] data at least to take into account **UTC/TAI** gaps.

Display

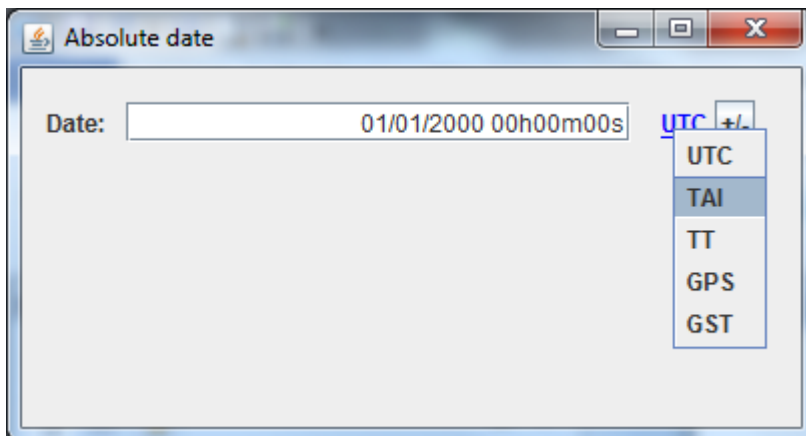
With such an example, we will be able to display this:



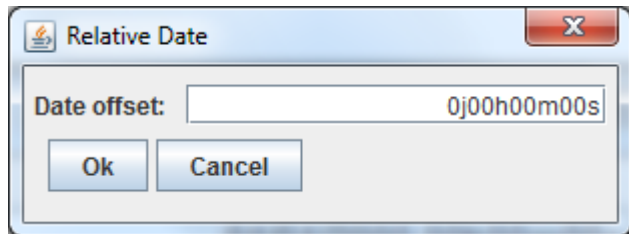
Several date formats are available via a mouse right click.



Moreover the user can select a time scale ...for which the conversion will be done ...



... and also have the possibility to use a date offset utility (very useful when you want to add duration to a previous date) by clicking on the button:



How to use it

To get a [[PATRIUS](#)] [AbsoluteDate](#) object, we will just have to call for the [getPatriusObject\(\)](#) method as below:

```
final AbsoluteDate date = date.getPatriusObject();
```

How it is stored

Here is the [XML](#) format for such a date:

```
<AbsoluteDate name="Date:">
  <String name="date">01/01/2010 12h34m56s123ms000us000ns</String>
  <String name="scale">UTC</String>
</AbsoluteDate>
```

Récupérée de « <http://genopus.cnes.fr/index.php?title=GPAbsoluteDate&oldid=405> »

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