

GPConstants

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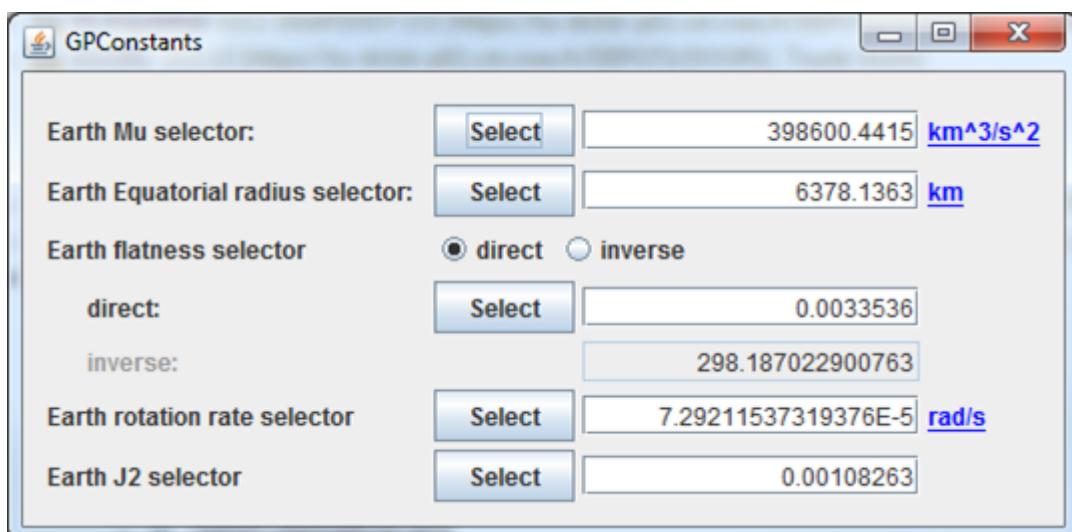
How to call it

GENOPUS proposes some widgets with a list of [[PATRIUS](#)] constants. They can be called such as:

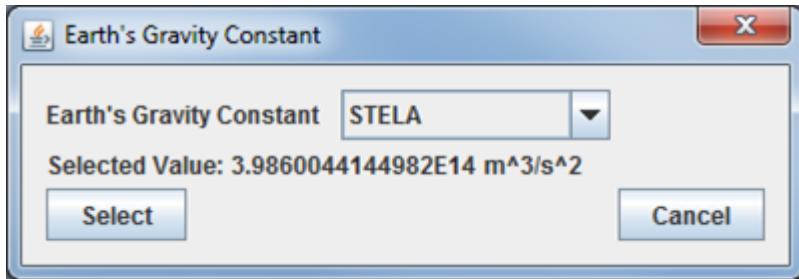
```
muSelector = new GPEntryEarthMu("Earth Mu selector");  
  
earthEqRadSelector = new GPEntryEarthEqRad("Earth Equatorial radius  
selector");  
  
earthFlatSelector = new GPEntryEarthFlat("Earth flatness selector");  
  
earthRotRateSelector = new GPEntryEarthRotRate("Earth rotation rate  
selector");  
  
earthJ2Selector = new GPEntryEarthJ2("Earth J2 selector");
```

Display

We will get:



These constants are of course modifiable via the **GUI** but a list of predefined values (present in [\[PATRIUS\]](#) library) is accessible via a select button that will display a pop-up window as below ...



How to use it

To get the values of such constant, we will just have to call for the `getValue()` method as on the example below:

```
double mu = muSelector.getValue();
```

How it is stored

Here is the **XML** format:

```
<Real name="Earth_Mu_selector:" unit="km^3/s^2">3.986004415E5</Real>
<Real name="Earth_Equatorial_radius_selector:" unit="km">6.3781363E3</Real>
<Real name="Earth_flatness_selector">3.3536E-3</Real>
<Real name="Earth_rotation_rate_selector"
unit="rad/s">7.29211537319376E-5</Real>
<Real name="Earth_J2_selector">1.08263E-3</Real>
```

Récupérée de « <http://genopus.cnes.fr/index.php?title=GPConstants&oldid=99> »

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• Dernière modification de cette page le 29 juillet 2017 à 13:19.

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