

GPOneAxisEllipsoid

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How to call it

For using the [GPOneAxisEllipsoid](#) class, the developer has only to create such an object as is:

```
ellips = new GPOneAxisEllipsoid("My Ellipsoid");
```

It is also ,possible to limit the available frames using two possibilities:

- Using a specific constructor:

```
ellips = new GPOneAxisEllipsoid("My Ellipsoid", GPRefFrame.ITRF,  
GPRefFrame.TIRF);
```

- ... or using the [setAvailableFrames\(\)](#) method:

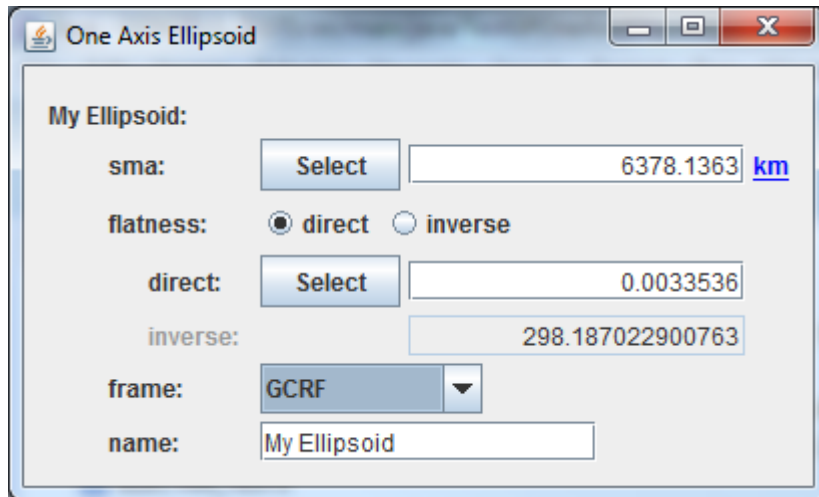
```
ellips.setAvailableFrames(GPRefFrame.ITRF, GPRefFrame.TIRF);
```

We also may initialize the widget with predefined values:

```
final double REQ  = Constants.WGS84_EARTH_EQUATORIAL_RADIUS;  
final double FLAT = Constants.WGS84_EARTH_FLATTENING;  
final Frame ITRF = FramesFactory.getITRF();  
final ExtendedOneAxisEllipsoid earth = new ExtendedOneAxisEllipsoid(REQ,  
FLAT, ITRF, "EARTH");  
  
ellips = new GPOneAxisEllipsoid("My Ellipsoid", earth);
```

Display

In the first case, we will get:



One Axis Ellipsoid

My Ellipsoid:

sma: 6378.1363 km

flatness: ☒ direct ☐ inverse

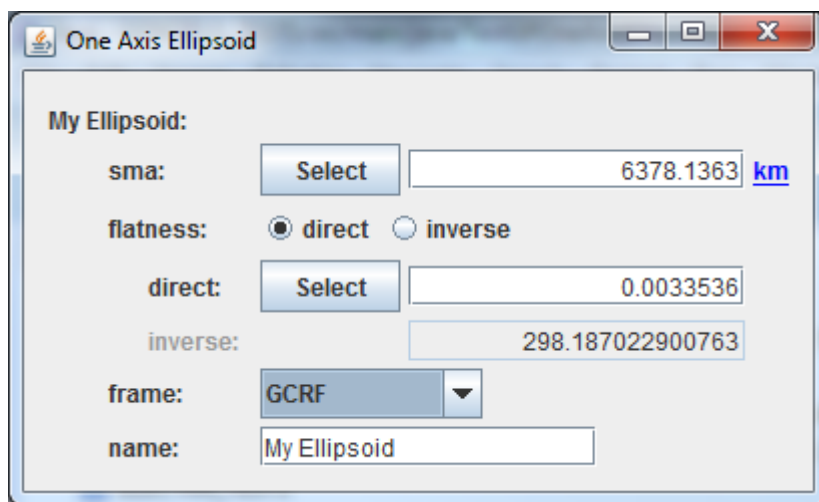
direct: 0.0033536

inverse: 298.187022900763

frame: GCRF ▼

name: My Ellipsoid

As with the limitation of available frames:



One Axis Ellipsoid

My Ellipsoid:

sma: 6378.1363 km

flatness: ☒ direct ☐ inverse

direct: 0.0033536

inverse: 298.187022900763

frame: GCRF ▼

name: My Ellipsoid

How to use it

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

```
ExtendedOneAxisEllipsoid extEllips = ellips.getPatriusObject();
```

How it is stored

Here is the XML format:

```
<OneAxisEllipsoid name="My_Ellipsoid">
  <Real name="sma" unit="km">6.3781363E3</Real>
  <Real name="flatness">3.3536E-3</Real>
  <Frame name="frame">
    <String name="name">ITRF</String>
  </Frame>
  <String name="name">My Ellipsoid</String>
</OneAxisEllipsoid>
```

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