

LoadingSunEphemeris 4.4

De Wiki

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

[LoadingSunEphemeris 4.4](#)

```
public class LoadingSunEphemeris {

    public static void main(String[] args) throws PatriusException,
    IOException, URISyntaxException {

        // Patrius Dataset initialization
        PatriusDataset.addResourcesFromPatriusDataset() ;

        //String[] fileNames = { "unxp2000.405", "unxp1950.405",
"unxp2700.406" };
        String[] fileNames = { "unxp.*.405", "unxp.*.406" };

        // data for Sun coordinates output
        final TimeScale tuc = TimeScalesFactory.getUTC();
        final AbsoluteDate date = new AbsoluteDate("2010-01-01T12:00:00.000",
tuc);
        final Frame icrf = FramesFactory.getICRF();

        for (int i = 0; i < fileNames.length; i++) {

            final JPLEphemeridesLoader loader = new
JPLEphemeridesLoader(fileNames[i], EphemerisType.SUN);

            CelestialBodyFactory.clearCelestialBodyLoaders();

            CelestialBodyFactory.addCelestialBodyLoader(CelestialBodyFactory.SUN,
loader);

            // Using the loading theory
            final CelestialBody sun =
loader.loadCelestialBody(CelestialBodyFactory.SUN);

            // Coordinates of the Sun at a given date and reference frame
            PVCoordinates pv = sun.getPVCoordinates(date, icrf);

            System.out.println("");
            System.out.println(pv.getPosition().getX());
            System.out.println(pv.getPosition().getY());
            System.out.println(pv.getPosition().getZ());
        }

    }

}
```

Menu de navigation

Outils personnels

- [18.218.38.67](#)
- [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

PATRIUS

- [Welcome](#)

Evolutions

- [Main differences between V4.15 and V4.14](#)
- [Main differences between V4.14 and V4.13](#)
- [Main differences between V4.13 and V4.12](#)
- [Main differences between V4.12 and V4.11](#)

- [Main differences between V4.11 and V4.10](#)
- [Main differences between V4.10 and V4.9](#)
- [Main differences between V4.9 and V4.8](#)
- [Main differences between V4.8 and V4.7](#)
- [Main differences between V4.7 and V4.6.1](#)
- [Main differences between V4.6.1 and V4.5.1](#)
- [Main differences between V4.5.1 and V4.4](#)
- [Main differences between V4.4 and V4.3](#)
- [Main differences between V4.3 and V4.2](#)
- [Main differences between V4.2 and V4.1.1](#)
- [Main differences between V4.1.1 and V4.1](#)
- [Main differences between V4.1 and V4.0](#)
- [Main differences between V4.0 and V3.4.1](#)

User Manual

- [User Manual 4.15](#)
- [User Manual 4.14](#)
- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)
- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)
- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

Tutorials

- [Tutorials 4.15](#)
- [Tutorials 4.14](#)
- [Tutorials 4.13.5](#)
- [Tutorials 4.12.1](#)
- [Tutorials 4.8.1](#)
- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

Links

- [CNES freeware server](#)

Navigation

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

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 3 octobre 2019 à 12:02.

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

