

LoadingSunEphemeris 4.5.1

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```
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());
        }

    }

}
```

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