

Main differences between V4.7 and V4.6.1

De Wiki

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

[Main differences between V4.7 and V4.6.1](#)

PATRIUS V4.7 is a major release adding some new features and correcting some bugs.

New functionalities

- Revision of attitude sequences, now to be used through StrictAttitudeLegsSequence
- Add grid attraction model to be used with small bodies such as Phobos
- Add computation of derivative of IAU pole, used when computing transformation from/to body inertial/rotating frames.
- Add harmonics of third body potential in ThirdBodyAttraction force model.
- Add handling of spherical coordinates SphericalCoordinates
- Generalisation of TDB time scale, which can now be changed by users

Bugs fixes

- Correction of numerical propagation in order to reach exactly the required end date (rare case)
- Correction of a thread-safety problem when using analytical 2D propagation
- Correction of pole tides displacement computation (colatitude instead of latitude)

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« http://patrius.cnes.fr/index.php?title=Main_differences_between_V4.7_and_V4.6.1&oldid=3009 »

Menu de navigation

Outils personnels

- [18.226.28.197](#)
- [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 V4.13 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 4.13](#)
- [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 4.5.1](#)
- [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 7 mai 2021 à 09:27.
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)
- 