

# Main differences between V4.7 and V4.6.1

De Wiki

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**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)

Récupérée de

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