



latest

Search docs

Citing

Known issues

Changelog

Installing

Releases

Theoretical background

Using Tesseroids

Cookbook

License

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Tesseroids: forward modeling in spherical coordinates

Tesseroids

A collection of **command-line programs** for modeling the **gravitational potential**, **acceleration**, and **gradient tensor**. *Tesseroids* supports models and computation grids in Cartesian and spherical coordinates.

Developed by [Leonardo Uieda](#) in cooperation with [Carla Braitenberg](#).

Official site: <http://tesseroids.leouieda.com>

License: [BSD 3-clause](#)

Source code: <https://github.com/leouieda/tesseroids>

Latest release: v1.2.0 (doi:[10.5281/zenodo.582366](https://doi.org/10.5281/zenodo.582366))

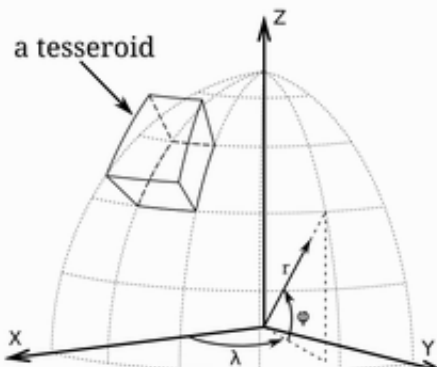
Note

Tesseroids is **research software**. Please consider [citing](#) it in your publications if you use it for your research.

Warning

See the list of [known issues](#) for things you should be aware of.

The geometric element used in the modeling processes is a **spherical prism**, also called a **tesseroid**. *Tesseroids* also contains programs for modeling using **right rectangular prisms**, both in **Cartesian** and **spherical coordinates**.



View of a tesseroid (spherical prism) in a geocentric coordinate system. Original image (licensed CC-BY) at doi:[10.6084/m9.figshare.1495521](https://doi.org/10.6084/m9.figshare.1495521).