

# GIPPtools

This is the *Readme* file for the GIPPtools software distribution.

## About

The Geophysical Instrument Pool Potsdam (GIPP) provides seismic and magnetotelluric recorders as well as sensors for academic research. It is hosted by the Helmholtz-Zentrum Potsdam Deutsches [GeoForschungsZentrum](#). The GIPPtools have been created to provide a collection of software utilities that aid with initial processing of recorded (seismic) data supporting users that borrow instruments from the GIPP.

All programs in the GIPPtools collection are designed and tested to work with files written by Data-Cube<sup>3</sup> recorders (produced by [DiGOS Potsdam GmbH](#)) and with miniSEED files written by EDR-209/210 and PR6-24 Portable Field Recorder (both produced by the [Earth Data](#) Division of the Kenda Group). However, there is absolutely no reason why the utilities should not work with miniSEED or Cube files produced by other instruments or software as well.

The programs will help you to “manage” your recorded data and to prepare the dataset for import into whatever processing system you use for further scientific analysis. You can use the utilities, among other things, to convert, re-organize and cut out (seismic) data from miniSEED and Cube data files.

## Requirements

There are two requirements that must be met to run the programs in the GIPPtools package:

1. A working Java virtual machine (sometimes also called a Java Runtime Environment or simply JRE) supporting **Java 8** or newer!



You can download and install a *JRE* from e.g. the [AdoptOpenJDK](#) site if your operating system does not already provide an adequate runtime.

2. Some console or terminal window on your computer where you can type commands. None of the GIPPtools programs utilizes a graphical user interface. They all take their parameters and options exclusively from the command line!

## Download

Since you are reading this, you probably already obtained a GIPPtools copy somehow. Nevertheless, you might want to check with the "Software" section at the [GIPP web page](#) for the latest release.

There are two binary distributions. One is for Unix style operating systems such as Linux, Solaris, etc. and one for the Microsoft Windows family. (Mac OS X users should use the Unix release.) The main difference between the distributions is the start script used to run the various GIPPtool

programs. Apart from that they are functionally identical.

## Installation

The installation instructions can be found in the *Install* file located in the documentation subdirectory. The *ReleaseHistory* file in the same directory contains a brief list of user relevant changes between the different GIPPtool releases.

## Documentation

You can find all documentation in the `doc` subdirectory of the GIPPtools installation directory. It is not fully developed yet, but it will get you started. All documentation files are provided in HTML and PDF format. The GIPPtools distribution for Unix operating systems contains an additional documentation set in the `man` subdirectory, ready for display by the standard Unix `man` command.

The documentation directory also contains some example files you might want to use as templates for your own projects.

## Contact

GIPPtools are written and maintained by Christof Lendl ([lendl@gfz-potsdam.de](mailto:lendl@gfz-potsdam.de)). If you are having trouble installing or running the software, feel free to contact me. However, please study the documentation **before** contacting me. I'm not your ghostreader!

If you encounter a bug, misfeature, or missing feature in GIPPtools, the preferred reporting method is by filing an [issue](#) in the GIPPtools repository. When reporting bugs, please be sure to include the GIPPtools release number you are using as well as the platform you are running it on.

See also the GIPP home page on the web: <http://www.gfz-potsdam.de/gipp>