

Install UDECON 1.1 on a PC

1. Download all files in this folder to your computer.
2. Click on the “UDECON for PC version1.1.exe” file and follow the step-by-step instruction to install UDECON 1.1 on your PC. it is important that during the installation process the checkbox “Add a shortcut to the desktop” is selected.

Install UDECON 1.1 on a Mac

1. Download all files in this folder to your computer.
2. Click on the “UDECON for Mac version1.1.app” file and follow the step-by-step instruction to install UDECON 1.1 on your Mac.

Running UDECON 1.1

1. For PC users, click on the desktop shortcut created during the installation to start UDECON. For Mac users, by default, UDECON.app can be found under the folder: ~/Applications/UDECON/Application/
2. Use the associated publication on *Earth, Planets and Space* (see citation below) as a guide, and the example format file, measurement data file, and response data file provided in this folder to try and get familiar with deconvolution optimization in UDECON.
3. Prepare your own measurement format file and magnetometer sensor response file to perform deconvolution for measurement data collected on that magnetometer.

Thanks for using UDECON. Please cite our papers below if you find UDECON helpful for your work. Feel free to contact us if you have any questions or suggestions.

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Citations

Xuan, C., and Oda, H. (2015) UDECON: deconvolution optimization software for restoring high-resolution records from pass-through paleomagnetic measurements. *Earth, Planets and Space*, 67, 183, 1-17. [doi:10.1186/s40623-015-0332-x](https://doi.org/10.1186/s40623-015-0332-x)

Oda, H., and Xuan, C. (2014) Deconvolution of continuous paleomagnetic data from pass-through magnetometer: a new algorithm to restore geomagnetic and environmental information based on realistic optimization. *Geochem. Geophys. Geosyst.* 15, 3907–3924. doi:[10.1002/2014GC005513](https://doi.org/10.1002/2014GC005513)

UDECON version history

Version	Date Released	Revision Notes
1.10	2016-08-03	<ul style="list-style-type: none">• Bug fixed for processing the ZY and YZ terms of the magnetometer sensor response• Bug fixed for managing measurement data collected at intervals other than 1-cm resolution• The Mac version is compiled using MATLAB 2016a on OS 10.9.5 (Mavericks), and tested on OS 10.9.5 (Mavericks) and OS 10.11.6 (El Capitan)• The PC version is compiled using MATLAB 2013b on a Windows 7 PC, and tested on a different Windows 7 PC• This document on installation and use of UDECON as well as the software version history is created
1.00	2015-11-14	<ul style="list-style-type: none">• Original publication of the UDECON software on <i>Earth, Planets and Space</i>. DOI 10.1186/s40623-015-0332-x.