

# QuickMagIC: Tutorial by example

downloading and viewing data from database

MagIC Workshop May 2014

## Introduction

**QuickMagIC.py** is a Graphical User Interface (GUI) that provides a quick path to the main **PmagPy** programs. The work flow is illustrated schematically in Figure 1. Here, we will do the following tasks:

- getting started.
- Step 1: download data from MagIC database.
- Step 2: view data using PmagPy GUIs.

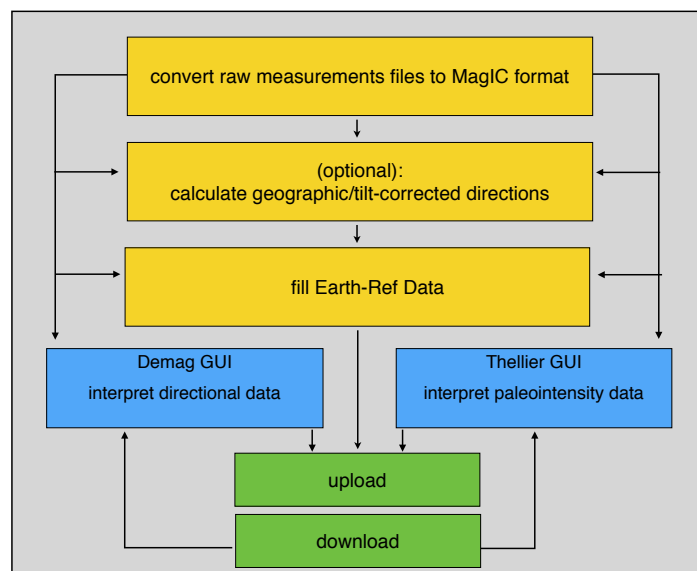


Figure 1: QuickMagIC workflow.

## Getting started

- **install PmagPy:** If you havent done it yet: follow the first four bullets in Chapter 1 (MagIC Quick Start), PmagPy Cookbook: <http://earthref.org/PmagPy/cookbook/>
- **create a MagIC Project Directory:** Create a directory with a name that relates to that study.(e.g., TauxeEtAl2004). The project directory name should have NO SPACES and be placed on the hard drive in a place that has NO spaces in the path.  
Inside ThisProject directory, create a sub directory called 'MagIC'.

## Step 1: Download MagIC project data from database

- **download example dataset from MagIC:** Open the MagIC search interface <http://earthref.org/MAGIC/search/>. Write the string "Snake River and Tauxe" in the text search window (Figure 2). click on the contribution tab. Under the tab 'Contribution SmartBook' there are two files: excel file and txt file. Download the text file (double click or right click) (Figure 3). Save the file in the MagIC directory (Figure 4).

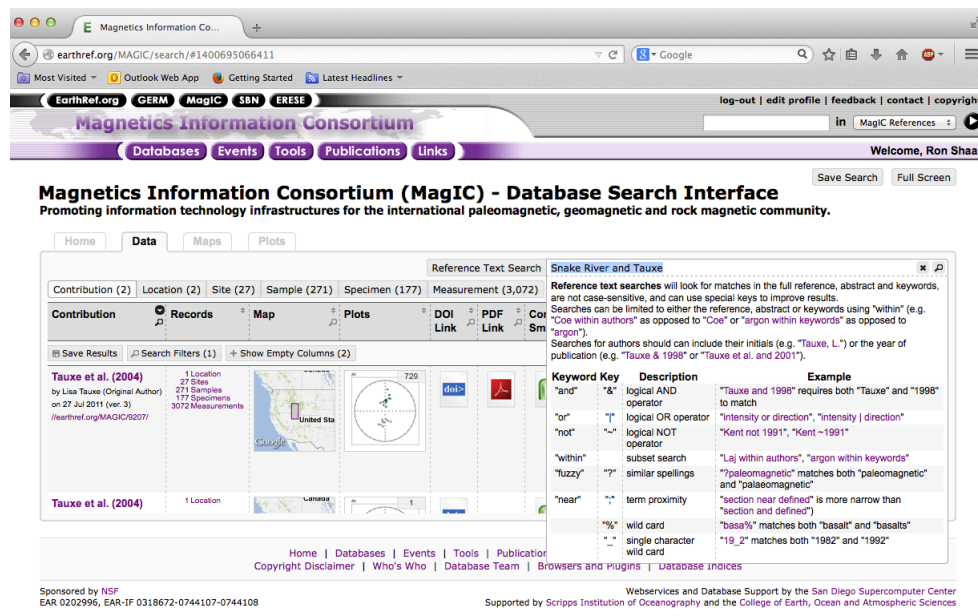


Figure 2: To download the example data search the string "Snake River" in MagIC "text search"

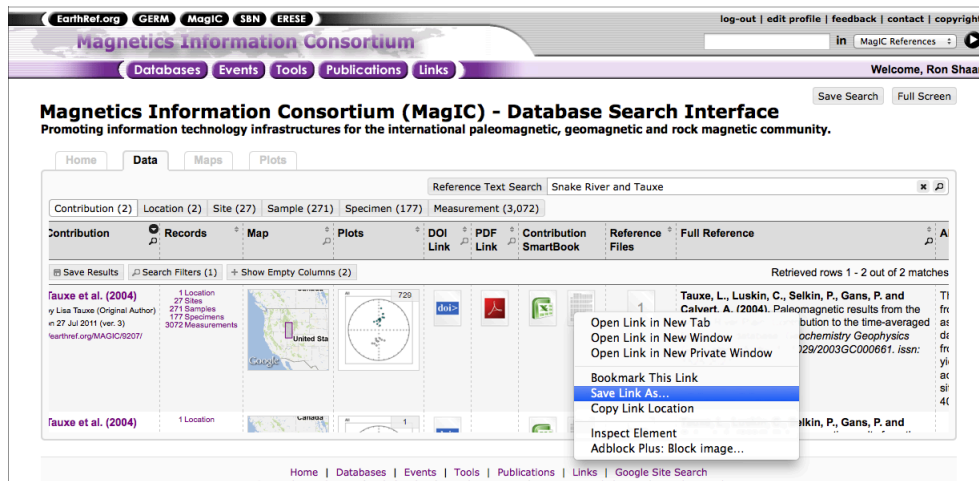


Figure 3: download the Snake River MagIC Project txt file

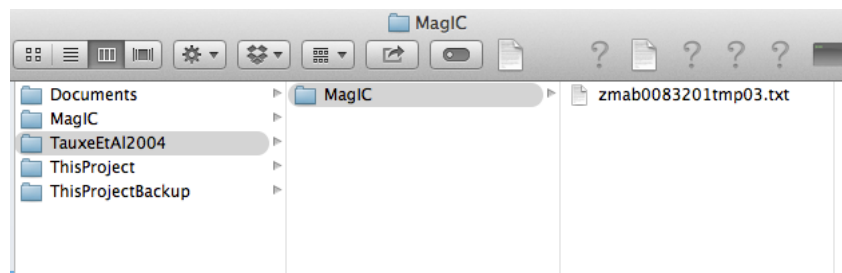


Figure 4: Snake River MagIC Project directory

## Step 2: Viewing data using PmagPy GUI's

- **run the program:** Open up a terminal window (mac) or command prompt (pc) and type QuickMagIC.py on the command line. Select the MagIC directory in TauxeEtAl2004 when prompted. (Figure 5)
- Press the [Unpack downloaded txt file] button and choose the downloaded txt file. This runs the PmagPy script "download\_magic.py". The result is a list of MagIC files saved in the MagIC Project Folder (Figure 6).
- Press the [Demag GUI] button. This runs the PmagPy program to view and analyze directional paleomagnetic data (Figure 7)
- Press the [Thellier GUI] button. This runs the PmagPy program to view and analyze paleointensity data. (Figure 8)

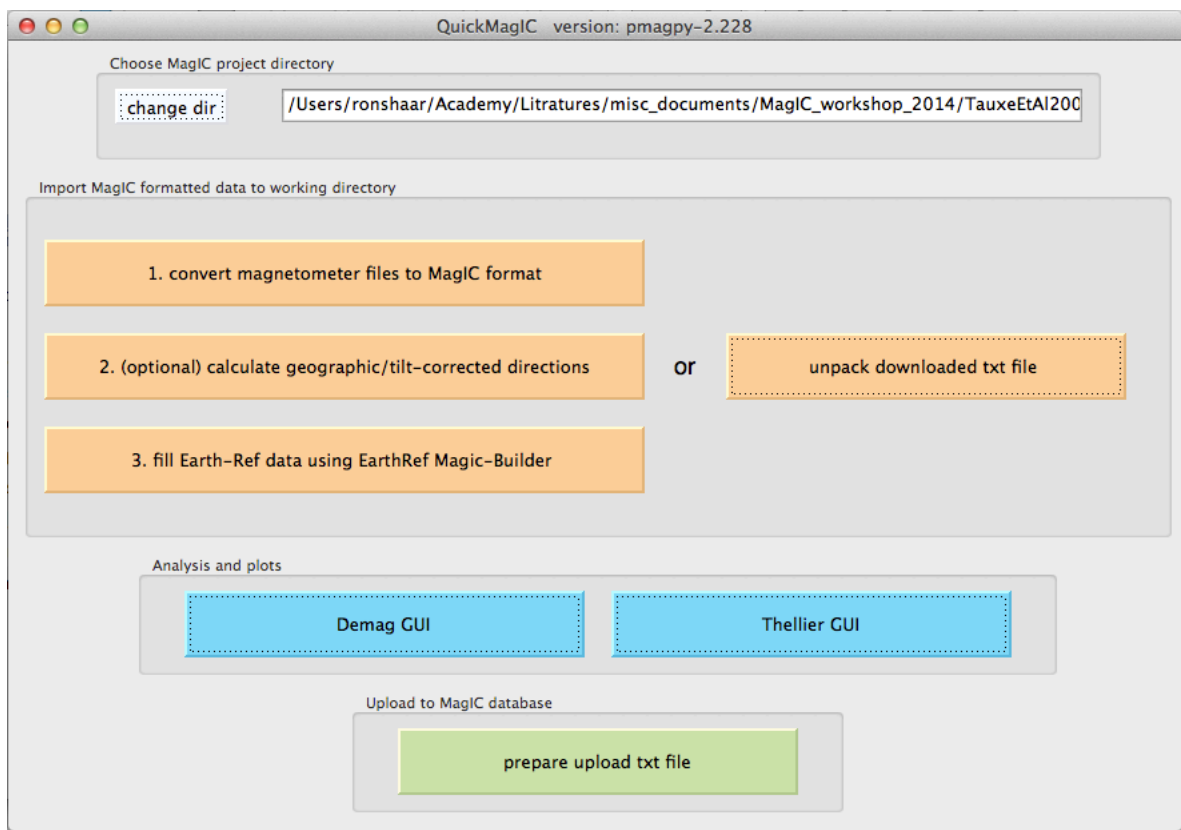


Figure 5: QuickMagIC frame

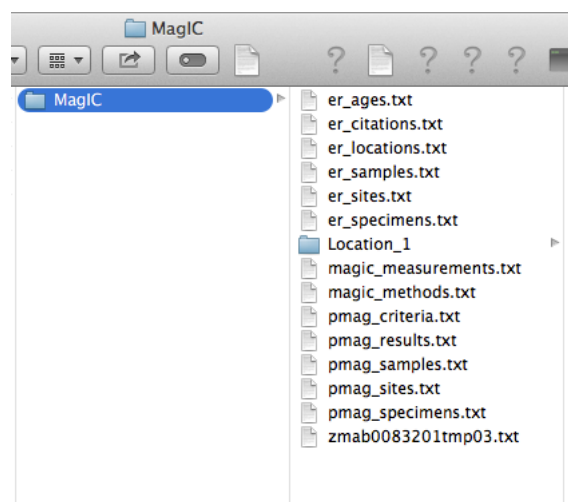


Figure 6: Snake River MagIC Project directory after unpacking txt files

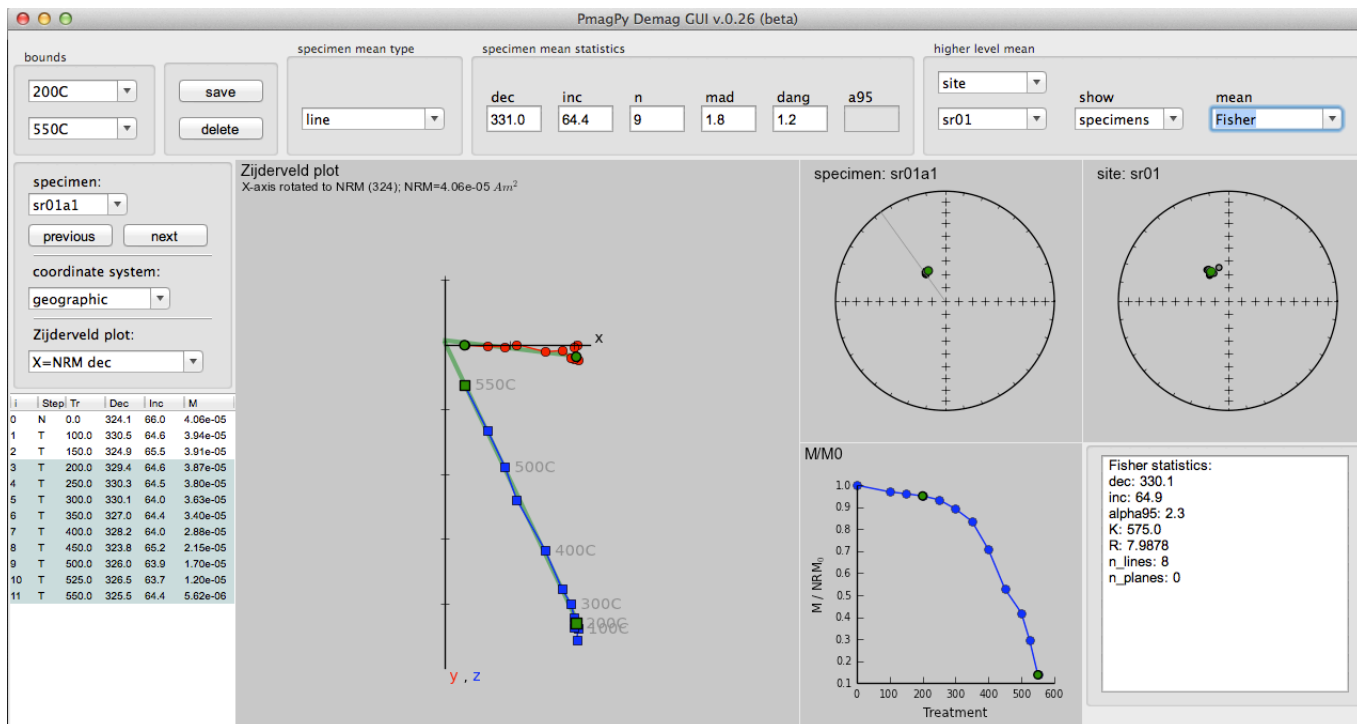


Figure 7: Demag GUI main frame.

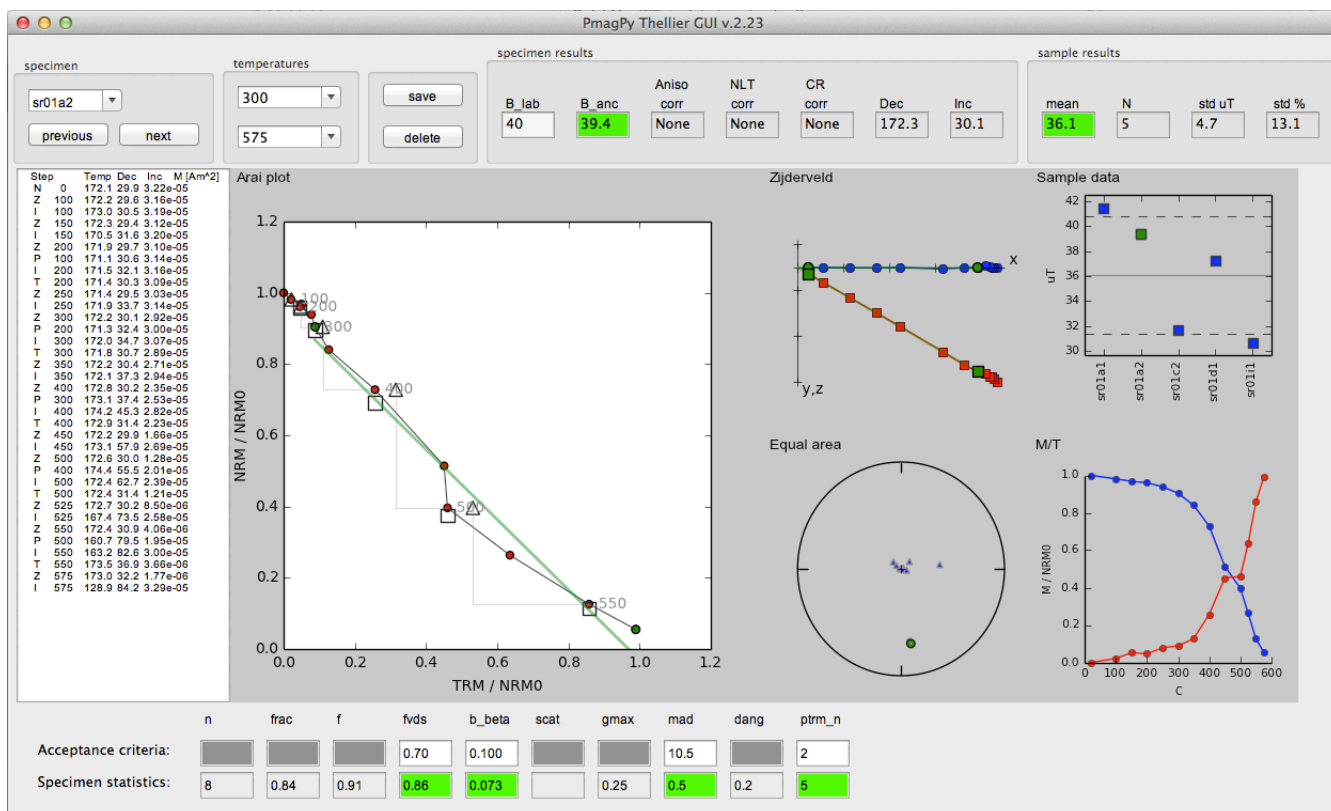


Figure 8: Demag GUI main frame.