ERTAC EGU Projection Tool Installation

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Requirement/Recommendation

**Hardware**
4 GB of RAM and 1TB HDD for CONUS runs

**Software**
Python Version 2.6 or higher
https://www.python.org/downloads/release/python-279
* You might already have Python installed if you have ArcGIS or other applications using it.

ERTAC EGU Projection Code Version 1.01
http://www.marama.org/images/stories/documents/ertac_egu_tool.v1.01.zip

ERTAC EGU Projection Tool Tutorial Data
Username: newmanevu1
Password: exchange
Show of Hands

• Who has already installed Python?
• ERTAC EGU Source Code?
Python Installation
Python Installation

Customize Python 2.7.9 (64-bit)

Select the way you want features to be installed. Click on the icons in the tree below to change the way features will be installed.

Register Extensions
- Tcl/Tk
- Documentation
- Utility Scripts
- Help
- Test suite
- Add python.exe to Path

Prepend C:\Python27W to the system Path variable. This allows you to type 'python' into a command prompt without needing the full path.

This feature requires 0KB on your hard drive.

Disk Usage Advanced < Back Next > Cancel

Install Python 2.7.9 (64-bit)

Please wait while the installer installs Python 2.7.9 (64-bit). This may take several minutes.

Status:

< Back Next > Cancel

User Account Control

Do you want to allow the following program to remove software from this computer?

Program name: Python 2.7.9
Verified publisher: Python Software Foundation
File origin: Hard drive on this computer

Show details

Yes No

Change when these notifications appear

Install Python 2.7.9 (64-bit)

Please wait while the installer installs Python 2.7.9 (64-bit). This may take several minutes.

Status: Copying new files

< Back Next > Cancel
Python Installation

<table>
<thead>
<tr>
<th>Favorites</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desktop</td>
<td>Kivy-1.8.0-py2.7-win32</td>
</tr>
<tr>
<td>Downloads</td>
<td>NVIDIA</td>
</tr>
<tr>
<td>Dropbox</td>
<td>PerfLogs</td>
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<td>Google Drive</td>
<td>Program Files</td>
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ERTAC EGU Projection Code and Tutorial Data

Copy source codes and tutorial dataset

Copy ERTAC EGU code v1.01 into the following directory:
C:\ertac_egu\1.01

Copy the tutorial dataset into the following:
C:\ertac_egu\REG3

Test if the installation is done correctly:

• Open the command window
  • “Start” => type cmd
  • Type cd C:\ertac_egu\REG3
  • Type C:\ertac_egu\1.01\ertac_preprocess.py -h
  • This should return the “help” menu of the code.
Successful Installation
Tutorial Case - Preprocessing

- In the command line window, type
  - C:\ertac_egu\1.01\ertac_preprocess.py
- Wait until you see the command line prompt again.
- It may take about 2-3 minutes to finish.
- You should be able to see calc* files.
- Review the log file before running the projection code.
Tutorial Case - Projection

- In the command line window, type
  - C:\ertac_egu\1.01\ertac_projection.py
- Wait until you see the command line prompt again.
- It may take about 2-3 minutes to finish.
- You should be able to see “calc*” files.
- Review the log file before running the post-processing code.
Tutorial Case - Postprocessing

• In the command line window, type
  • C:\ertac_egu\1.01\ertac_postprocess.py
• Wait until you see the command line prompt again.
• It may take about 2-3 minutes to finish.
• You should be able to see calc* files.
• Review the log file carefully.
• Additional command line inputs are available for power users.
Options for Advanced Users

• Setting Up a Batch Run
  • If you want to do streamline run, you can create a batch file that contains the following lines:
    C:\ertac_egu\1.01\ertac_preprocess.py
    C:\ertac_egu\1.01\ertac_projection.py
    C:\ertac_egu\1.01\ertac_postprocess.py

• Command Line Options (except postprocessor)
  • -i for prefix of input files
  • -o for prefix of output files
  • Note: post processor has additional command line options that are available by running --help
Got Problems?

• Join our technical support user group - ertac-egu-user@googlegroups.com and ask your question.