MAST 2026 · WORKSHOP ON CGE MODELING AND GTAP

RunGTAP Installation Guide

Installation and Pre-workshop Check

Please complete the steps in this guide before the workshop. The goal is to ensure RunGTAP is installed correctly and that the NUS333 model version runs successfully on your computer.

About RunGTAP and the Workshop Model

For this workshop, you will use RunGTAP to open and run the GTAP model. RunGTAP is the Windows interface used to work with the GTAP model. The underlying GTAP model consists of a set of files written in the GEMPACK programming language, which runs in the background while you use the RunGTAP interface.

During the workshop, we will primarily work with the model version NUS333. The GTAP model equations can be used with different aggregations of the GTAP database; in RunGTAP, each such setup is referred to as a model version. NUS333 is a small, teaching-oriented version of the model that makes the economic mechanisms easier to understand and the simulation results easier to interpret.

NUS333 contains two regions, the United States (USA) and the rest of the world (ROW), and three production activities: agriculture, manufacturing, and services. It also contains three factors of production: land, labor, and capital. The model version is based on the GTAP Version 8.1 database released in February 2013, with a 2007 base year.

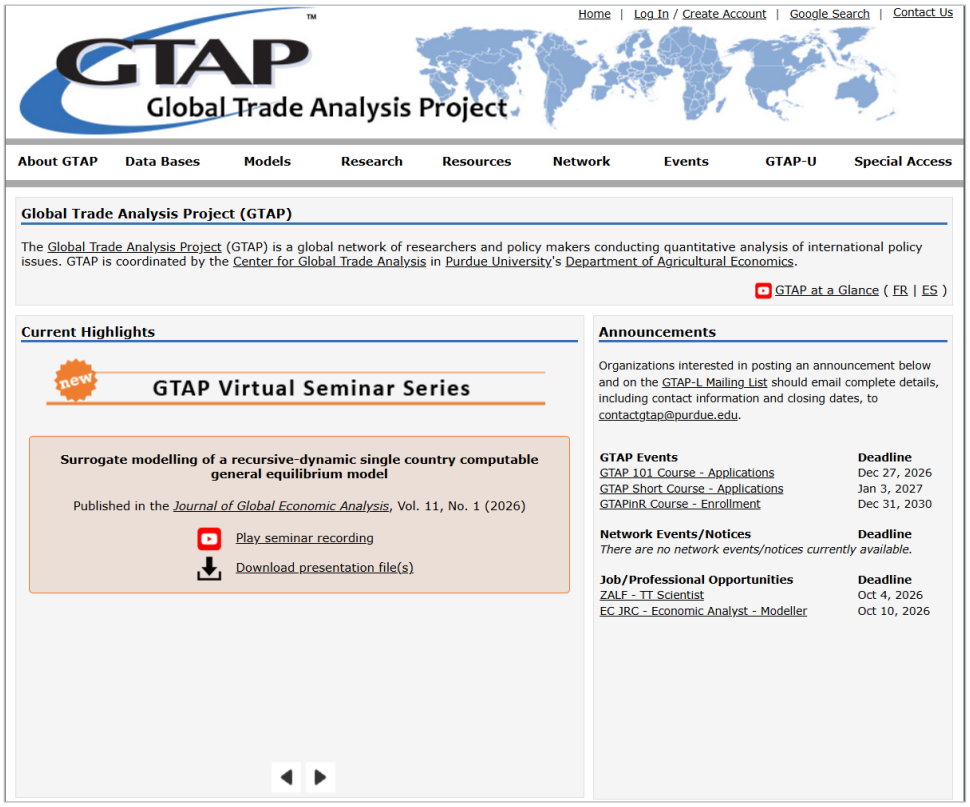
What you will be able to do. By the end of this pre-workshop check, you should be able to open RunGTAP, load NUS333, run the built-in test simulation, and confirm that the model is ready for the workshop exercises.

Throughout this guide, menu paths, buttons, and page tabs appear in bold, for example **Version › Change**, and folder and file names appear in a fixed-width font, for example `C:\RunGTAP375`.

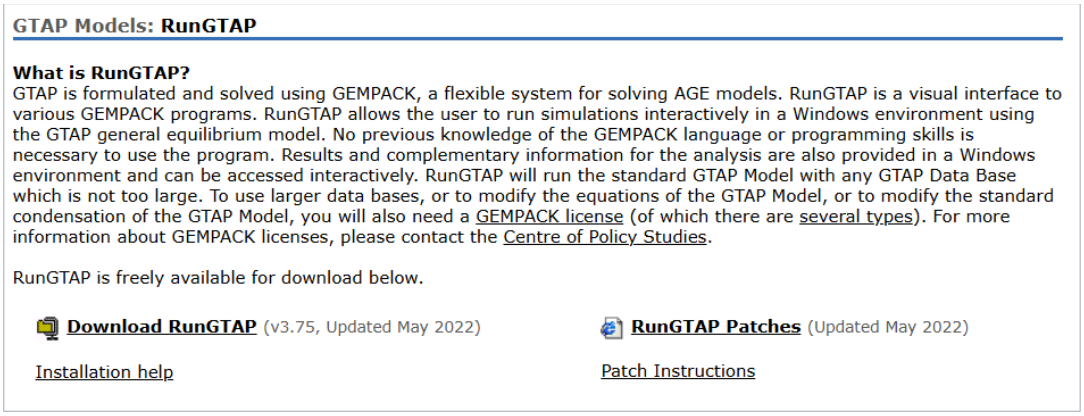
Installing RunGTAP

Go to the GTAP website

Open your web browser and go to the GTAP website at www.gtap.org. From the main menu bar, select **Models**, then **RunGTAP** from the drop-down menu. In the **RunGTAP Downloads** section, select **Download RunGTAP** (v3.75, updated May 2022).



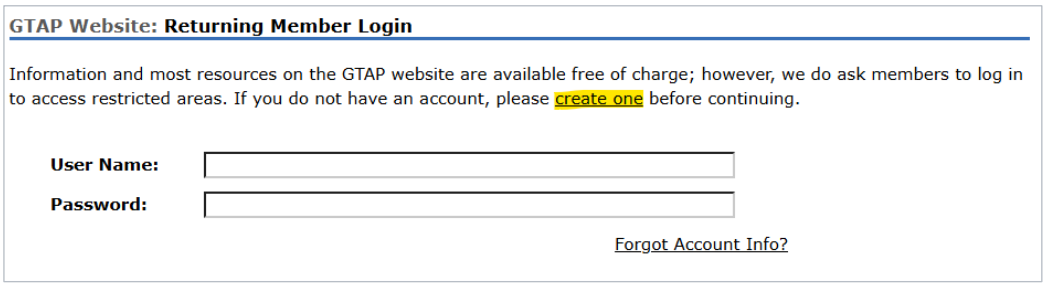
The GTAP website. Select Models, then RunGTAP, from the main menu bar.



The RunGTAP page, with the Download RunGTAP link.

Log in to your GTAP Account

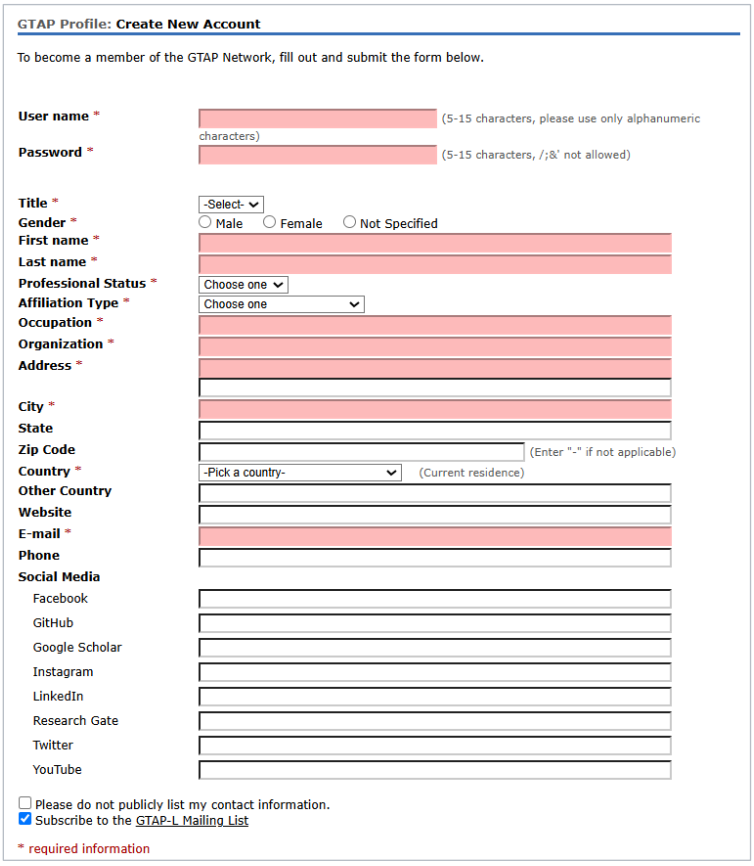
After selecting **Download RunGTAP**, you will be directed to the GTAP member login page. You must be logged in to a GTAP account before you can download the installation file. If you already have a GTAP account, enter your login details and continue. If this is your first time working with GTAP and you do not have an account yet, click **Create One** in the message above the login boxes.



The GTAP member login page.

Create a GTAP account, if needed

Complete the required fields on the account registration page and submit the form to create your GTAP account. Once your account has been created, log in using your new account details and proceed with the RunGTAP download.

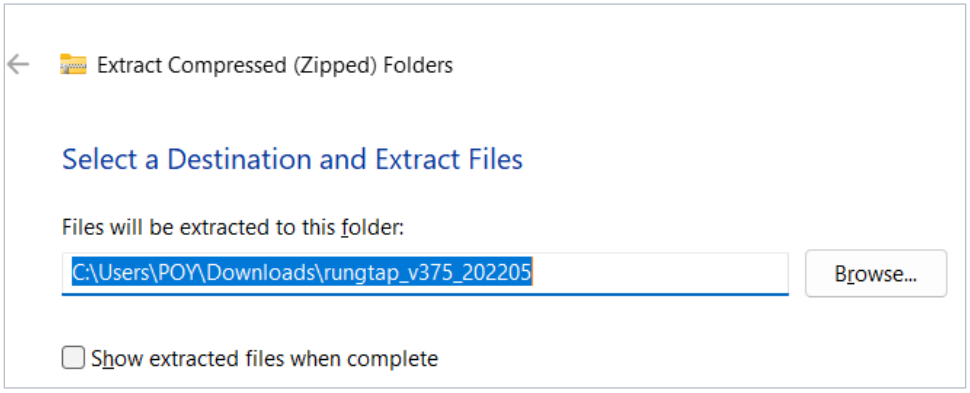


The GTAP account registration page. Required fields are marked with an asterisk.

Download and install RunGTAP

Download the RunGTAP installation file. When prompted, select **Unzip and Install**. After the files have been extracted, select **Set-Up** and follow the installation prompts.

The default installation directory is `C:\RunGTAP375`. You may install RunGTAP in a different directory if necessary; however, keeping the default directory is recommended for the workshop because it makes troubleshooting easier.



Extracting the RunGTAP installation files.

Open RunGTAP

Once installation is complete, open RunGTAP using the Windows shortcut or search for RunGTAP from the Windows **Start** menu. The RunGTAP title page contains a menu bar at the top and page tabs below the menu bar. RunGTAP may initially open with the model version ACORS3x3. This confirms that the program has installed and can launch.



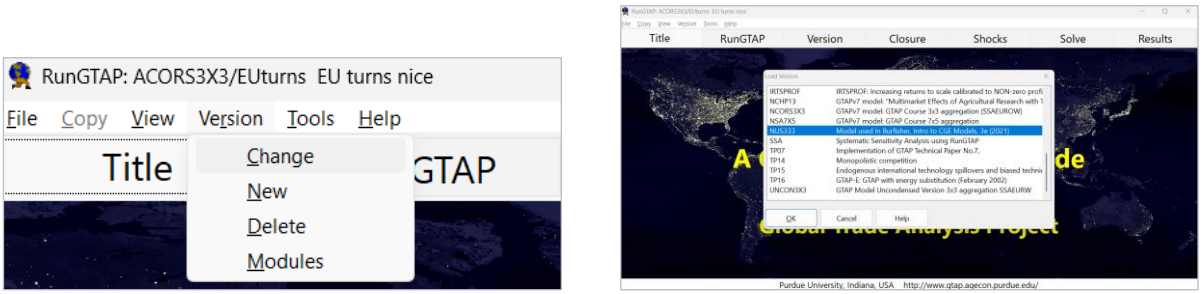
The RunGTAP shortcut (left) and the RunGTAP title page (right).

Checking Your Installation with NUS333

Before the workshop, confirm that NUS333 is available and that RunGTAP can successfully run its built-in test simulation. This test performs consistency checks, runs a numeraire experiment, and calibrates the tax rates used in subsequent model experiments.

Open NUS333 from the RunGTAP model library

Open RunGTAP. From the top menu bar, choose **Version › Change**, select NUS333 from the list of available model versions, and click **OK**. If another confirmation window appears, click **OK** again.



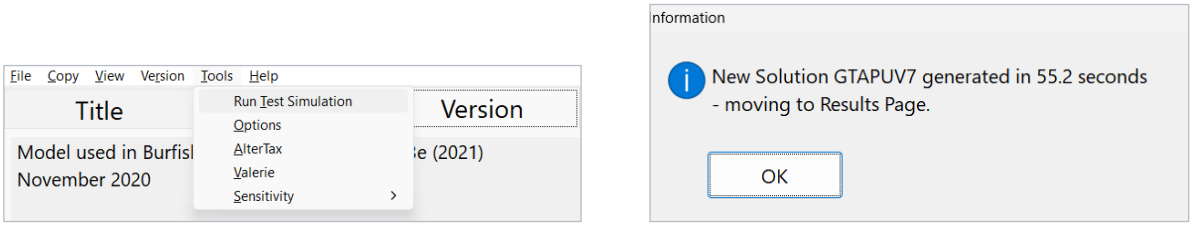
The Version › Change menu (left) and the list of model versions, with NUS333 selected (right).

Note. The first time you open NUS333, RunGTAP may display a warning that an `.SLI` file is missing or obsolete. This is expected. Click **OK** and continue. The required file will be created when you run the model.

Run the NUS333 test simulation

The test simulation checks that the model and database are working correctly. It runs a consistency check and a numeraire experiment using the NUS333 database, and calibrates the tax rates used in subsequent model experiments.

If a test simulation was already run automatically while loading NUS333 and it completed successfully, you may go on to the next section. Otherwise, run it manually: from the upper menu bar, choose **Tools › Run Test Simulation** and click **OK**.



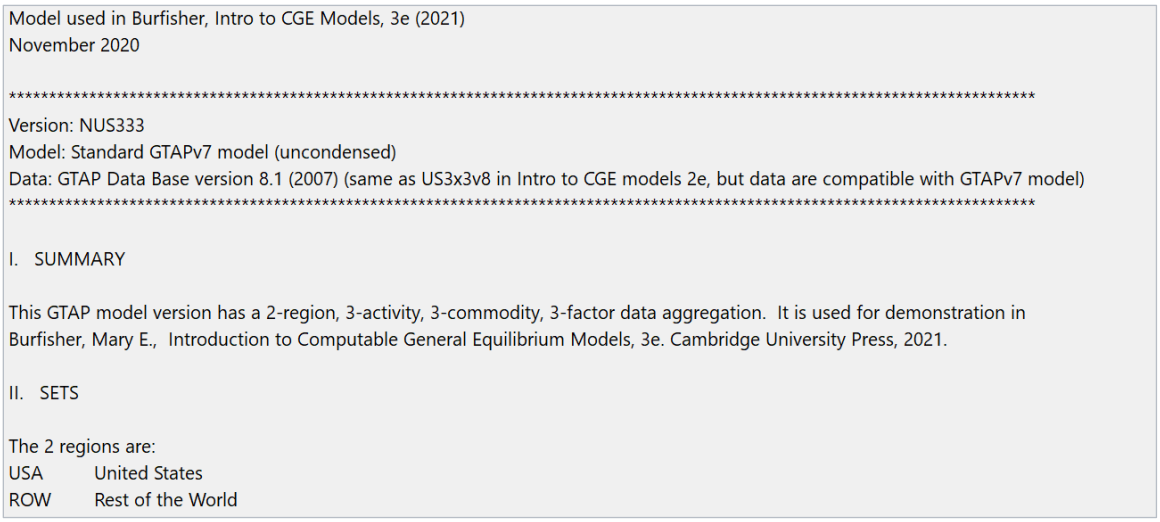
Running the test simulation (left) and the message confirming a new solution (right).

Successful check. If the test simulation completes successfully, your NUS333 model version is ready to use for the workshop exercises.

Review the NUS333 model description

Before the workshop, briefly review the information provided with the NUS333 model version. From the page tabs below the upper menu bar (not the upper menu bar itself), select **Version** and review the description of the NUS333 model.

The Version page contains information on the model sets, experiments, closures, and solution method. You do not need to memorize these details before the workshop; the purpose of this step is simply to confirm that you can access the model information that we will refer to during the exercises.



Model used in Burfisher, Intro to CGE Models, 3e (2021)
November 2020

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Version: NUS333
Model: Standard GTAPv7 model (uncondensed)
Data: GTAP Data Base version 8.1 (2007) (same as US3x3v8 in Intro to CGE models 2e, but data are compatible with GTAPv7 model)
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I. SUMMARY

This GTAP model version has a 2-region, 3-activity, 3-commodity, 3-factor data aggregation. It is used for demonstration in Burfisher, Mary E., Introduction to Computable General Equilibrium Models, 3e. Cambridge University Press, 2021.

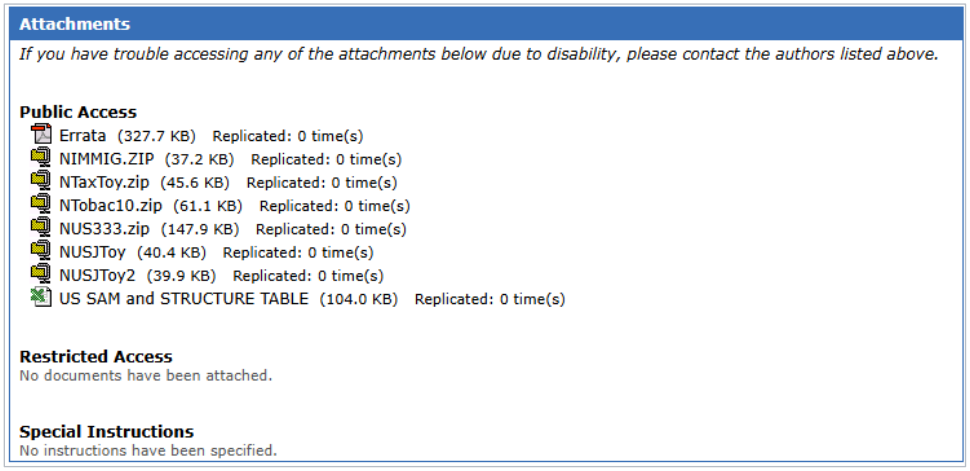
II. SETS

The 2 regions are:
USA United States
ROW Rest of the World

The NUS333 model description on the Version page.

Downloading Additional GTAP Resources

Open the GTAP resources page. In the **Attachments** box, download `NIMMIG.zip` and the US SAM and STRUCTURE TABLE, and save the files somewhere easy to find in preparation for the workshop.



The Attachments box on the GTAP resources page.

After downloading, the NIMMIG file may be named `10945.zip`. Rename it `NIMMIG.zip`. In your RunGTAP375 installation folder (`C:\RunGTAP375`), create an empty folder named NIMMIG and select **Extract All** to save the contents of `NIMMIG.zip` directly into that folder.

Check the folder. Make sure you extract the `NIMMIG.zip` files into the NIMMIG folder and not directly into the RunGTAP375 folder.

Pre-Workshop Readiness Checklist

Before the workshop, tick each check in the table below.

Check	Done
I have created or can access my GTAP account.	☐
I have downloaded and installed RunGTAP.	☐
RunGTAP opens successfully on my computer.	☐
I can open the NUS333 model version from the RunGTAP model library or import `NUS333.zip`.	☐
The NUS333 test simulation completes successfully without unresolved errors.	☐
I can open the Version tab and view the NUS333 model description.	☐

If all the boxes above are checked, your RunGTAP installation is ready for the workshop.

If you encounter an error or cannot complete the test simulation, please take a screenshot of the error message so that the issue can be identified before the workshop.