Reproducible Research Repository

Climate Policies And Their Impact On Developing Countries' Trade

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This review verifies the reproducibility of the exhibits included in the paper *" Climate Policies And Their Impact On Developing Countries' Trade"*.

Contents in this review:

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2. List of exhibits and reproducibility status

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Main findings

- **Every exhibit has been reproduced accurately.**

- The code was successfully executed on a new computer after:

  1. Change the file paths in the main do file

- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.

- The code takes approximately 30 minutes to run.

- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package.

- The reproducibility verification was conducted using data provided directly by the authors, including some limited-access or restricted datasets that are not included in the public reproducibility package. Reviewers verified the publicly available versions of these datasets and found that they differ slightly due to periodic updates to the underlying databases.

- **Reproducibility Summary**:

  - **Data**: Some data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file

  - **Code**: All code files (from cleaning to analysis) are included in the reproducibility package.

  - **Outputs**: All outputs are generated by code included in the reproducibility package.

- **Reproducibility verification**: Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The reviewers also attempted to verify whether the publicly available version of the data matched the one used in the original analysis, but found that the public version had since been updated and differs from the version used by the authors.

- **Dependencies environment**: : The reproducibility package does not use external dependencies

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure E1** Does not Apply. This exhibit does not show analysis results.

- **Figure E2a** Reproduced This was compared against *ES2a* in *TC2_fig10 14 15 16.xlsx*

- **Figure E2b** Reproduced This was compared against *ES2b* in *TC2_fig10 14 15 16.xlsx*

- **Figure 1** Does not Apply. This exhibit does not show analysis result.

- **Figure 2** Reproduced This was compared against *TC2_fig2.xlsx*

- **Figure 3** Reproduced This was compared against *TC2_fig3.xlsx*

- **Figure 4** Does not Apply. This figure is sourced from the Science-Based Targets Initiative Monitoring Report (2023), p25.

- **Figure 5** Reproduced This was compared against *4_Fig5* in *TC2_fig5 6 7 8.xlsx*

- **Figure 6** Reproduced This was compared against *3_Fig6_7* in *TC2_fig5 6 7 8.xlsx*

- **Figure 7** Reproduced This was compared against *3_Fig6_7* in *TC2_fig5 6 7 8.xlsx*

- **Figure 8** Reproduced This was compared against *5_Fig8* in *TC2_fig5 6 7 8.xlsx*

- **Figure 9** Reproduced This was compared against *TC2_fig9.xlsx*

- **Figure 10** Reproduced This was compared against *Fig10* in *TC2_fig10 14 15 16.xlsx*

- **Figure 11** Reproduced.This was compared against *Fig11* in *TC2_fig11 12.xlsx*

- **Figure 12** Reproduced. This was compared against *Fig12* in *TC2_fig11 12.xlsx*

- **Figure 13** Reproduced. This was compared against *Fig12* in *TC2_fig11 12.xlsx*

- **Figure 14** Reproduced. This was compared against *Fig14* in *TC2_fig10 14 15 16.xlsx* There are some differences in formatting but the values match.

- **Figure 15** Reproduced. This was compared against *Fig15* in *TC2_fig10 14 15 16.xlsx* There are some differences in formatting but the values match.

- **Figure 16** Reproduced. This was compared against *Fig16* in *TC2_fig10 14 15 16.xlsx*.

- **Figure 17** Does not Apply. This exhibit does not show analysis results.

- **Figure 18** Reproduced. This was compared against *TC2_fig18.xlsx.*

- **Figure 19** Does not Apply. This figure is sourced from Singh and Bacher (2015) p13.

- **Figure 20** Reproduced. This was compared against *TC2_fig20.xlsx*

- **Figure 21** Reproduced. This was compared against *TC2_fig21.xlsx*

Results in the Annex

- **Table A1** Does not Apply. This exhibit does not show analysis results.

- **Figure A1** Reproduced. This was compared against *TC2_figA1.xlsx*

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise

- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz

- Memory available: 15.7 GB

- Software version: Stata 18.0 MP, Microsoft Excel