



## *Economy-wide Benefits of Improved Hydrometeorological Forecasts and Services in Cambodia*

*First Submission: RR\_KHM\_2026\_634*

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This review verifies the reproducibility of the exhibits included in the paper “*Economy-wide Benefits of Improved Hydrometeorological Forecasts and Services in Cambodia*”.

### **Contents in this review:**

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

### *Main findings*

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
  1. Restoring the environment in "requirements.txt"
  2. Running the python scripts *prepare\_impact\_channel\_data.py* and *process\_model\_results.py* and *KHM\_shocks\_EWS.prg* in Eviews.
- 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 by email on April 15th.
- **Verification Process and Data Handling:**
  - The reproducibility package relies on 1 type of data: open
  - Open data is included in the public reproducibility package.
  - *data\_hash\_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**

- **Data:** All data sources are publicly available and included in the reproducibility package.
- **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.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

### *List of exhibits and reproducibility status*

#### **Results in the Main Section of the Paper**

- **Figure 1** Does not apply Does not show any analysis results.
- **Figure 2** Reproduced. Verified against *"temperature\_projections\_KHM.pdf"*
- **Table 1** Does not apply Does not show any analysis results.
- **Figure 3** Reproduced. Verified against *"drr\_impact\_channel\_KHM.pdf"*
- **Figure 4** Reproduced. Verified against *"agri\_impact\_channel\_KHM.pdf"*
- **Figure 5** Reproduced. Verified against *"hydropower\_cc\_year\_selection.pdf"*
- **Figure 6** Reproduced. Verified against *"hydropower\_impact\_channel\_KHM.pdf"*
- **Figure 7** Reproduced. Verified against *"results\_DRR\_control\_rel.pdf"*
- **Figure 8** Reproduced. Verified against *"results\_gdp\_differences.pdf"*
- **Figure 9** Reproduced. Verified against *"results\_AGR\_control\_rel.pdf"*
- **Figure 10** Reproduced. Verified against *"results\_HYD\_control\_rel.pdf"*
- **Figure 11** Reproduced. Verified against *"results\_All\_control\_rel.pdf"*

#### **Results in the Annex**

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well. The seed used to generate the random selection was 518011, the Stata version used was 18MP, and the exhibits selected were: figures 1,2,3, 4 and tables 3,4,6,8,9 and 11.

- **Figure 1** Reproduced. Verified against *"results\_DRR\_baseline\_rel.pdf"* .
- **Figure 2** Reproduced. Verified against *"results\_AGR\_baseline\_rel.pdf"*
- **Figure 3** Reproduced. Verified against *"results\_HYD\_baseline\_rel.pdf"*
- **Figure 4** Reproduced. Verified against *"results\_All\_baseline\_rel.pdf"*

- **Table 3 Reproduced.** Verified against "*hydropower\_impact\_channel\_KHM.tex*"
- **Table 4 Reproduced.** Verified against "*results\_DRR\_control\_rel.tex*"
- **Table 6 Reproduced.** Verified against "*results\_HYD\_control\_rel.tex*"
- **Table 8 Reproduced.** Verified against "*results\_DRR\_baseline\_rel.tex*"
- **Table 9 Reproduced.** Verified against "*results\_AGR\_baseline\_rel.tex*"
- **Table 11 Reproduced.** Verified against "*results\_All\_baseline\_rel.tex*"

### *Reproduction Environment*

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y+ 2.80 GHz (2 processors)
- Memory available: 32.0 GB
- Software version: Python 3.10, Eviews 14