



Six Years of High-Frequency Phone Surveys: Lessons from Sub-Saharan Africa

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This review verifies the reproducibility of the exhibits included in the paper “*Six Years of High-Frequency Phone Surveys: Lessons from Sub-Saharan Africa*”.

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. Updating the working directory in the main do-file, and running it.
 2. Open ‘Reproducibility Package.Rproj’, navigate to the ‘01_Prgms’ folder, and run ‘FigureA1.R’
- 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.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, accessible (public but not included in the reproducibility package), and restricted data (available only from the authors).
 - Open data is included in the public reproducibility package.
 - Reviewers used restricted data provided directly by the authors to conduct the reproducibility verification, and this is not 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 restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**

- **Data:** Some data is restricted and has not been included in the reproducibility package. For more details, 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.
- **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 Reproduced.** Verified against file "Figure1_FieldworkSchedule.png".
- **Table 1 Reproduced** Verified against file "Table1_TableA1.xlsx".
- **Table 2 Reproduced.** Verified against the file "Table_2_Self_Respondents.xlsx".
- **Table 3 Does not apply** Does not show analysis results.
- **Table 4 Reproduced** Verified against the file "Table4.xls".
- **Figure 2 Reproduced** Verified against file "Figure2.png".
- **Figure 3 Reproduced**

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 359620, the Stata version used was 18, and the exhibits selected were: Tables, A1, A3, A4, A6, A7, A8, and Figures A1, A2, A3, A5 .

- **Table A1 Reproduced** Verified against file "TableA1.xls".
- **Table A3 Reproduced** Verified against file "TableA3.xls".
- **Table A4 Reproduced** Verified against file "TableA4.csv".
- **Table A6 Reproduced** Verified against file "TableA6.csv".
- **Table A7a Reproduced** Verified against file "TableA7a.csv".
- **Table A7b Reproduced** Verified against file "TableA7c.csv".
- **Table A8 Reproduced** Verified against file "TableA8.csv".
- **Figure A1 Reproduced.** Verified against file "FigureA1.png".
- **Figure A2 Reproduced.** Verified against file "FigureA2_Themes.png".

- **Figure A3**
- **Figure A2 Reproduced.** Verified against file "FigureA3.png".
- **Figure A5.a1 Reproduced.** Verified against file "Figure5a_1.pdf". Missing the standard error bars does not affect the reproducibility.
- **Figure A5.a2 Reproduced.** Verified against file "Figure5a_2.pdf".
- **Figure A5.a3 Reproduced.** Verified against file "Figure5a_3.png".
- **Figure A5.b1 Reproduced.** Verified against the file "Figure5b_1.png". X-axis increments range varies in both files and Brukina Faso is missing the error bars, but does not affect reproducibility.
- **Figure A5.b2 Reproduced.** Verified against the file "Figure5b_2.pdf".
- **Figure A5.b3 Reproduced.** Verified against the file "Figure5b_23.pdf".
- **Figure A5.c1 Reproduced.** Verified against the file "FigureA5_c1.pdf".
- **Figure A5.c2 Reproduced.** Verified against the file "FigureA5_c2.png".
- **Figure A5.c3 Reproduced.** Verified against the file "FigureA5_c3.png".

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: R 4.5.2, Stata 19.5 MP