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File: ReadMe.pdf
Date: August 31, 2020
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Note: This is to replicate the results of "Barking Up the Wrong Tree: How Political Alignment Shapes Electoral Backlash from Natural Disasters"
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This file documents how to replicate the results presented in "Barking Up the Wrong Tree: How Political Alignment Shapes Electoral Backlash from Natural Disasters."

Stata and R are required to replicate the results. Analyses were conducted in Stata/MP 16.0 and R version 3.5.3 for Mac OS.

To execute lines starting with eststo and esttab in Stata do-files, you will need to install the estout package with the command "ssc install estout" in Stata.

To execute lines starting with sutex in Stata do-files, you will need to install the sutex package with the command "ssc install sutex" in Stata.

In order to run R-script, you need the following packages: foreign, dplyr, ggplot2, spatialEco, gtable, grid, fANCOVA, stargazer, and readstata13.

The replication package contains the following files:
ReadMe.pdf: This file

***STATA DATA FILES**

- Drought_final.dta: Constituency-election year data file for main analyses.
- IHDS_final.dta: Household-survey year data file for IHDS-related analyses.
- Drought_PC.dta: Constituency-election year data file matched to the Member of Parliament (MP) constituency alignment data.
- Validation_zone.dta: weather zone-level rainfall data file for validation checks (along with Validation.do)
- Validation_dist.dta: district-level precipitation data file for validation checks (along with Validation.do)
- Validation_crop.dta: district-level agricultural data file for validation checks (along with Validation_crop.R)
- **SpatialData.dta:** latitude-longitude level data file for the models using spatial heteroscedasticity and autocorrelation consistent (HAC) errors (along with Final_spatial.do)

***R FILES**

- Final_MainFigure.R: R codes to produce all the main analysis figures in the main manuscript (Figures 2, 3, 4, and 5)

- Final_IHDSFigure.R: R codes to produce all the figures regarding IHDS analysis in the main manuscript (Figures 6 and 7) as well as those in the Appendix Section A12 (Figures A16 and A17).

- Final_AppendixFigure.R: R codes to produce the figures in the Appendix Sections A4, A9, A10, A14, A15, A16, and A17.

- Final_AppendixFigure_PC.R: R codes to produce the figures in the Appendix Section A13.

Please note that the replicated figures can show slightly different confidence intervals, depending on the number of simulations to obtain bootstrapped standard errors. Still, regardless of the number of simulations, the substantive results remain same.

- Validation_crop.R: R codes to produce Appendix Table A9 and Figure A4.

***STATA DO-FILES**

- Final_regression.do: Stata do-file to produce Figure A3 and main regression tables presented in the Appendix (Tables A3-5, A10-21, A34-35)
- Validation.do: Stata do-file to produce Table A6-8 for validation checks.

- Final_secA7_A18marginal.do: Stata do-file to produce results in Appendix Section A7 (Marginal effect figures) and A18 (partial residual plots)

- Final_spatial.do: Stata do-file to produce results in Appendix Section A8

- Final_IHDS_regression.do: Stata do-file to produce results in Appendix Sections A11 and A12.