**Replication files for “Forecasting Irregular Leadership Changes in 2014”**

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To replicate the figures and tables in the article, download the replication folder and change the working directory in runme.R to the path for the replication folder, then source runme.R.

The replication script will attempt to install two required R packages that are include and not available on CRAN. You may have to manually install them if this fails. They are included in replication/R/packages as EBMAforecastbeta\_0.44 and spduration\_0.12, with versions for Windows (.zip) and OS X (.tar.gz).

Files included in the replication folder:

runme.R – Replication R script to recreate figures and tables. Depends on the contents of the R and data subdirectories.

/R

ensemble\_forecast.R – Defines several helper functions for calculating ensemble forecasts.

worldMap.R – Defines a generic function for thematic maps of the world.

/R/packages

EBMAforecastbeta\_0.44.tar.gz – OS X source package

EBMAforecastbeta\_0.44.zip – Windows source package

spduration\_0.12.tar.gz – OS X source package

spduration\_0.12.zip – Windows source package

/data

readme.md – Markdown file listing the included R data files.

irc\_data\_v3.dta – R data file that contains raw replication data. Two objects, base.data going back to 1955 and irc.data back to 2001.

irc\_data\_mod.dta – R data file that contains imputed and cleaned replication data. Three objects: train is data to estimate thematic models, test contains calibration and out of sample test data, irc.data is complete, unpartitioned data set.

model\_estimates.rda – R data file with 7 objects that contain the thematic model estimates.

ensemble\_data.rda – R data file of the thematic model predictions that are used to calibrate ensemble.

ensemble.rda – R data file of the estimated ensemble object.