**Methods**

***Variable selection***

Macroeconomic, socioeconomic, and control variables for both sets of analysis were selected based on a combination of previous studies, data availability, and the authors’ knowledge of Cambodia. Macroeconomic variables were selected to create three sets of predictors, each targeting a different driver: economic development (n=10), commodity prices (external market forces, n=8), and producer prices (internal market forces, n=5) (Nelson et al. 2006; Ewers 2006; Gong et al. 2013; Kuang et al. 2016; Fan & Ding 2016; Bonilla-Bedoya et al. 2018). Both Gross Domestic Product per capita (GDP) and amount of forest remaining were included to reflect the economic development path and the forest scarcity path respectively (Rudel et al. 2005; Lambin & Meyfroidt 2010).

Socioeconomic variables were selected to create 8 variable sets reflecting different aspects of socioeconomic status and development (Luck et al. 2009; Ty et al. 2012; Kristensen et al. 2016; Bonilla-Bedoya et al. 2018). The variable sets were population demographics (n=8), education (n=4), employment (n=5), economic security (n=2), access to services (n=4), social justice (n=2), migration (n=2), and control (n=6). Control variables were included to account for the effects of environmental and other human factors including economic land concessions (Abdullah & Nakagoshi 2007; Davis et al. 2015), protected areas (Bonilla-Bedoya et al. 2018), elevation (Ty et al. 2012), and distance to human infrastructure (Ty et al. 2012).

***Data sources***

National macroeconomic variables were acquired from publicly available sources (Table 1) for the period 1993 – 2015. Fine-scale socioeconomic variables were extracted from the Cambodian Commune Database for the years 2007 – 2012 (Table 2) which are available from Open Development Cambodia ([www.opendevelopmentcambodia.net](http://www.opendevelopmentcambodia.net)). Data on economic land concessions, protected areas, and elevation (digital elevation model), and shapefiles for the country, provinces, and communes were provided by the Wildlife Conservation Society. Forest cover layers were taken from the European Space Agency Climate Change Initiative (ESACCI) satellite data for the years 1993 – 2015.

***Data processing***

The forest cover variable for both analyses was extracted from the ESA CCI product by totalling the number of pixels in each year classified as bands 50, 60, 61, 62, 70, 71, 72, 80, 81, 82, 90, and 100 (Table Sx). For the macroeconomic analysis, the total forest cover for the whole country was used, and for the socioeconomic analysis the forest cover layer was further stratified into forest cover per commune. Forest cover data processing was done in QGIS (QGIS Geographic Information System v3.16). For both analyses, predictor variables were checked for collinearity, and if two variables in the same set had a correlation coefficient of >0.6 then one was removed (Supporting Information).

*Macroeconomic analysis*

Forest cover was converted to change in forest cover using *forest covert+1 − forest covert*, where *t* represents year *t.* All predictors were converted from raw values to change in values using *Xt+1 – Xt,* where *t* represents year *t*. The variable *forest remaining* was left as raw values (km2). Cambodia’s first general election and subsequent adoption of a free market economy occurred in 1993, resulting in unreliable GDP-related values for 1993 (Chhair & Ung 2013) and subsequent change values in 1994, and so these were removed. To simplify interpretation, predictor variables were not centred or scaled prior to change calculations or modelling.

*Socioeconomic analysis*

Data from the Commune Database were at the resolution of individual village, and so the selected variables (Table 2) were aggregated to the commune level after error checking and cleaning (Supporting Information). Some variables were converted from raw values to proportional data to account for large differences in commune size and human population (Table 2). Data were checked for errors and inconsistencies in R (Supporting Information, R Core Team, version 4.0).

*Analysis*

*Macroeconomic models*

*Socioeconomic models*

McSweeney, C., New, M. & Lizcano, G. 2010. UNDP Climate Change Country Profiles: Cambodia. Available: http://country-profiles.geog.ox.ac.uk/ [Accessed 23/06/2020].