Showcase on SDG 15.1.1
Forest Area as a proportion of total land area (SGN)

Policy context

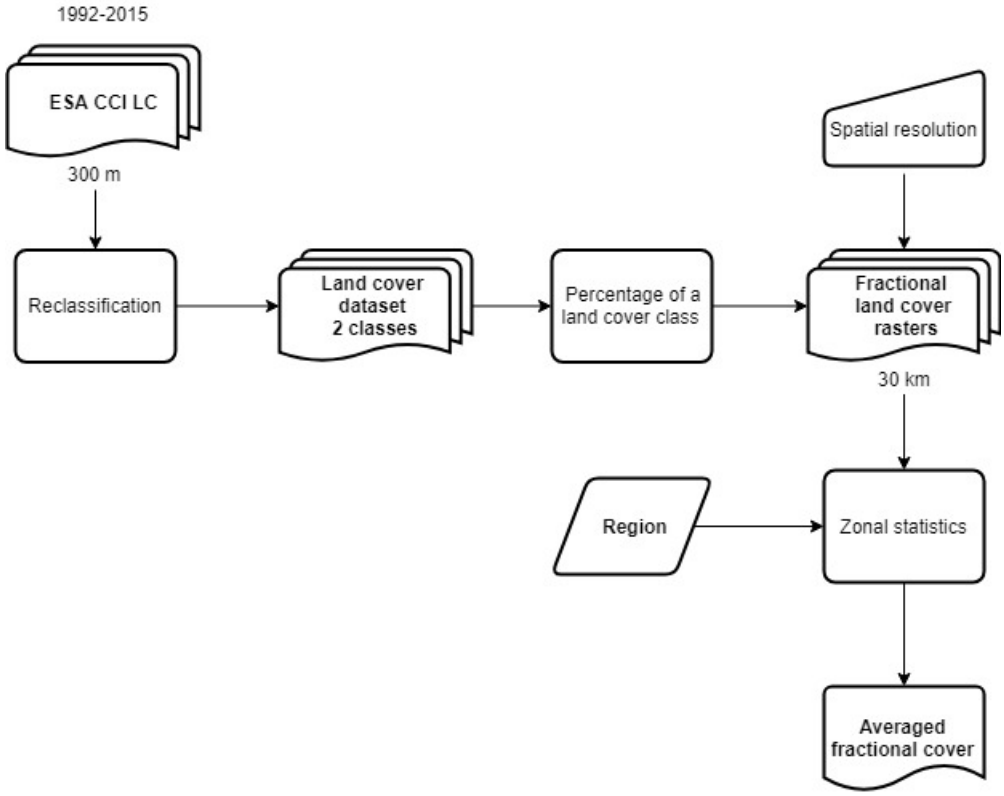


Figure 1 Workflow 4.2: Percentage of agriculture and forest land cover classes extent in Brazil between 1992 and 2015

Figure 1 shows the process carried out the current workflow. The legend of the ESA CCI LC product was aggregated according to the IPCC land cover legend (Land cover CCI product user guide v 2.0, p. 30, available at: https://maps.elie.ucl.ac.be/CCI/viewer/download/ESACCI-LC-Ph2-PUGv2_2.0.pdf). Forest and agriculture land cover classes were selected to estimate averaged fractional land cover from 1992 to 2015 (

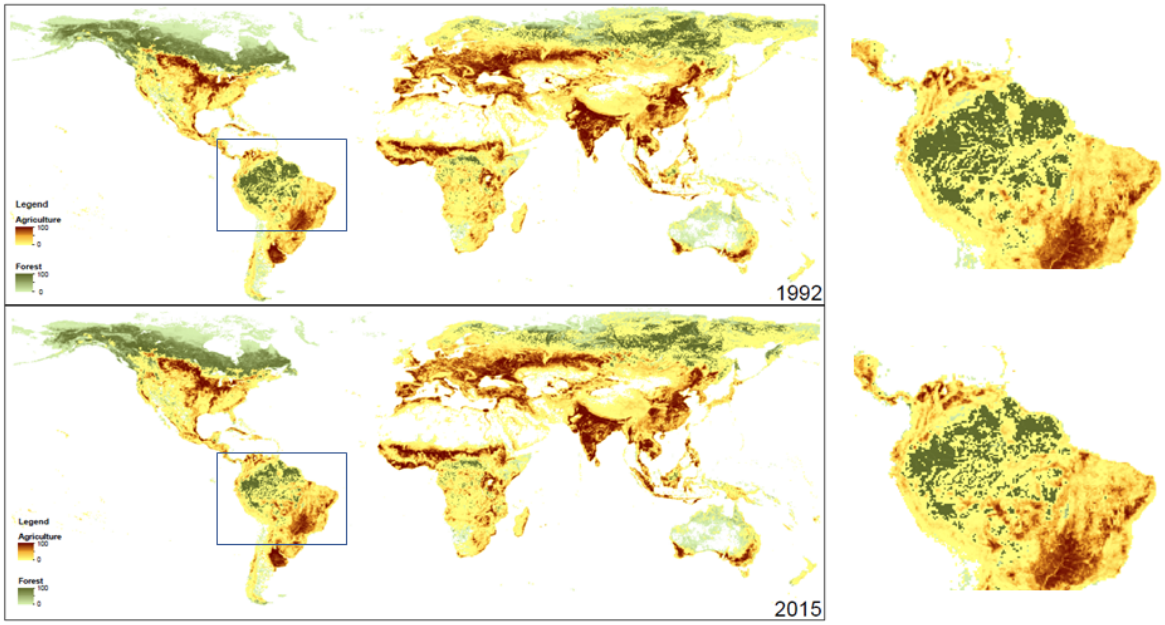
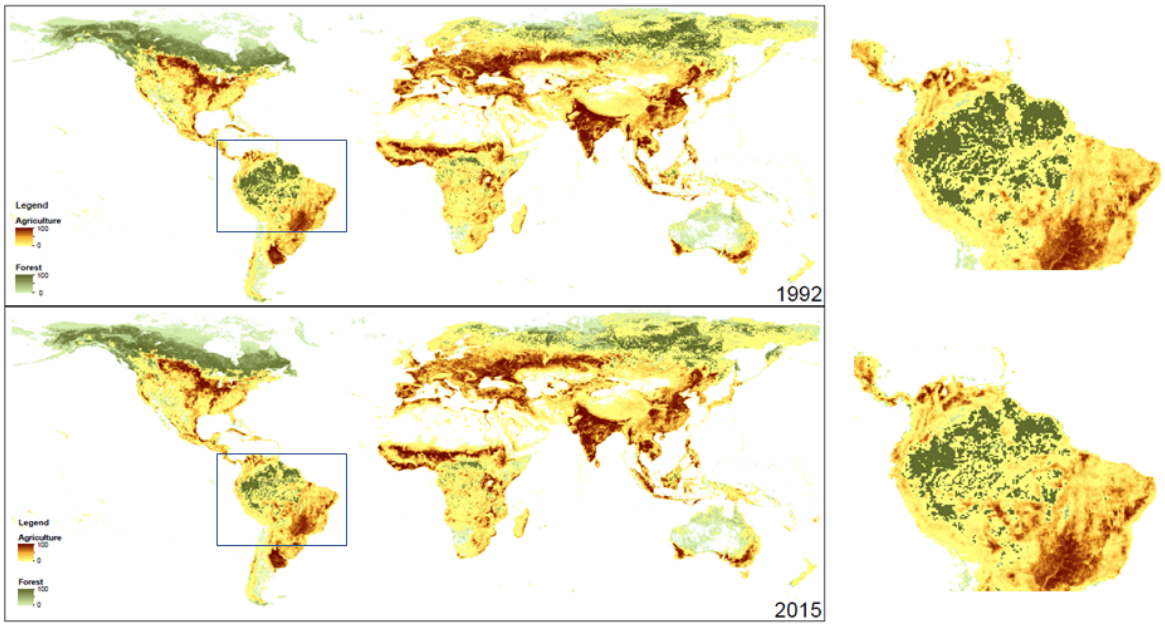


Figure 2). The spatial resolution of the ESA CCI LC product is 0.0027 (300 m at the Ecuador). Fractional land cover products were estimated using a processing unit of 0.2777 (or 0.02777) preserving the information of the original datasets. These products were used to estimate averaged mean fractional cover values of forest and agriculture for an area provided by the user (i.e. polygon). The results allow us to analyse temporal changes of ecosystem structure (Figure 3).



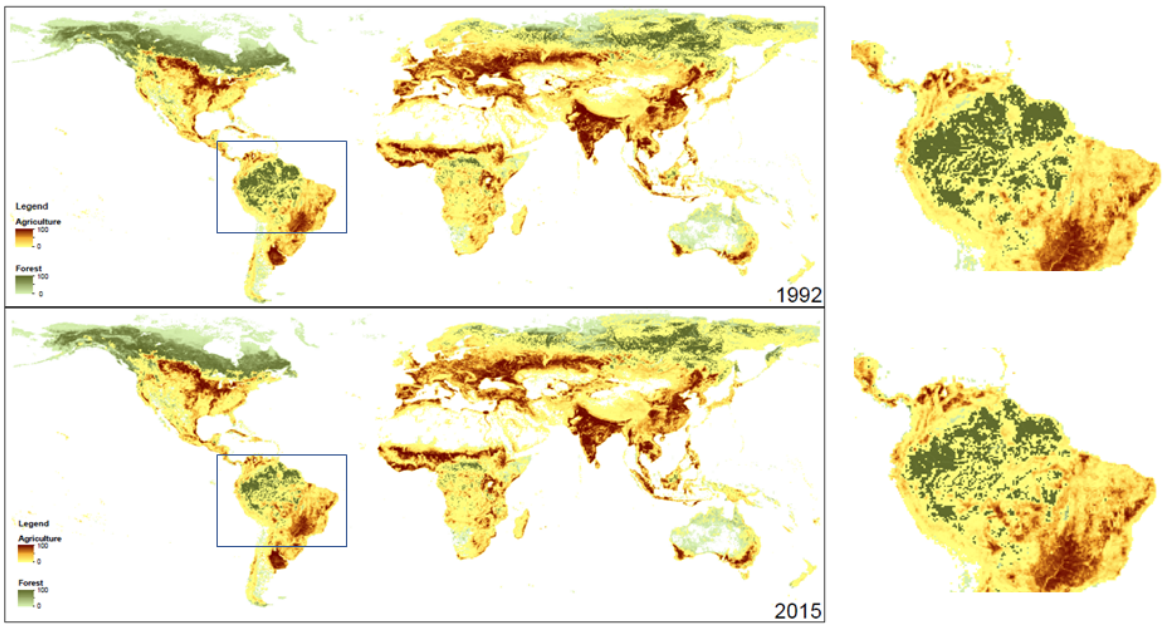


Figure 2 Workflow 4.2: Percentage of agriculture and forest land cover classes extent in Brazil between 1992 and 2015.

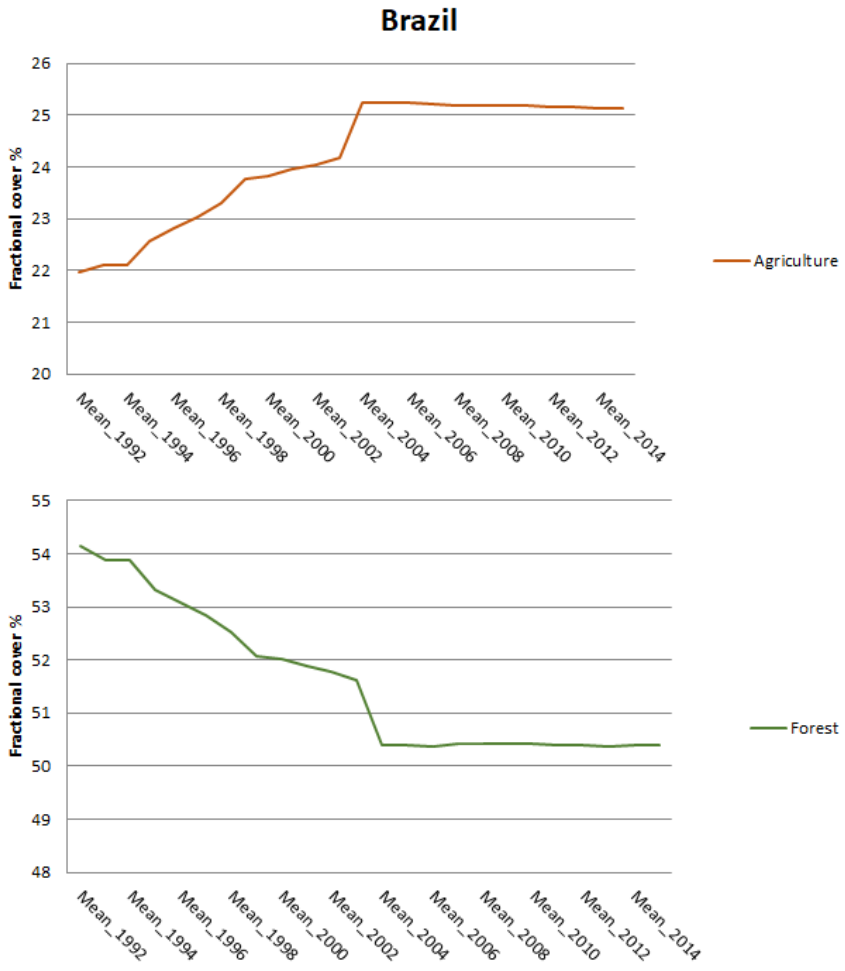


Figure 3 Workflow 4.2: Evolution of agriculture and forest mean fractional cover values in Brazil between 1992 and 2015.

Showcase description

GEOEssential:	Changes in forest and agriculture extent
Spatial Extent	Global
Dashboard link	To be included when available
Temporal Extent	1992-2015
EVs used	EBV ecosystem structure
Inputs	Land cover product (ESA CCI)
Outputs	Mean values of forest and agriculture extent for an area defined by the user. Data available from 1992 to 2015.
Targeted Policy	UN SDG
Targeted indicators	The analyses carried out could contribute to informing about the indicator 15: Life on land: 15.1.1: “Forest area as a proportion of total land area”
Main Process	1) Reclassification of ESA CCI LC products 2) Estimation of fractional land cover classes 3) Estimation of averaged fractional cover per class and region.
Level of development	100%
GitHub code	To be included when available
Outputs endpoint	To be included when available
Partner(s)	SGN
Contact person	Marta Gómez-Giménez (SGN)