



RAISG

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# Indigenous Territories areas of traditional ocupation and use

### officially recognized

#### Bolivia Indigenous Territory (Territorio Indígena Originario Campesino, registered) Brasil Indigenous Land (identified, declared or homologated) Colombia Indigenous Reservation (decreed) Ecuador Community Land (registered or decreed) Indigenous People (Pueblo) Intangible Zone Guyana Amerindian land (decreed) G. Française Area of Collective Use Right for the Benefit of Local Communities Perú Native Communities (demarcated and registered) Indigenous/Territorial Reservation for isolated peoples (created) Peasant Communities (titled)

Suriname no information Venezuela Indigenous Land (titled)

#### official recognition requested

country Bolivia Indigenous Territory (Territorio Indígena Originario Campesino, requested) Perú Native Communities (titling request) Indigenous Reservation (proposalt) Peasant Communities (recognized, titling request) Suriname no information Venezuela Territories of traditional use (self-demarcated)

without official recognition

Brasil not shown on the map Ecuador Community Land Perú Native Communities (identified by dots) Peasant Communities (common use area) Suriname no information Venezuela Territories of traditional use

indigenous peoples who are "isolated,

## Protected Natural Areas

recent sighting or other indication

### conservation use

exploitation of natural resources prohibited acronym category ARIE Area of Special Ecological Importance AEC Conservation Ecological Area AR Recreation Area APC Community Protected Area EE Ecological Station Brasil MN Natural Monument PN/PD/PE National or State Park RfVS Wildlife Refuge RBi Biological Reserve REc Ecological Reserve RF Forest Reserve RPF Fauna Production Reserve RN Nature Reserve (National or Regional) SF Flora Sanctuary SFF Fauna and Flora Sanctuary SH Historical Sanctuary Perú SN National Sanctuary Perú SiN Nature Site

sustainable use utilization of natural resources permitted acronym category (1)

ACR Regional Conservation Area MUMA Multiple Use Management Area APA Environmental Protection Area APC Area of Watershed Protection ARIE Area of Special Ecological Importance AGMA Guarani Water Management Area ANCM Conservation and Management Natural Area Perú

Brasil

Brasil

ANMI Integrated Management Natural Area ANMIyRD ANMI and State Reserve APM Municipal Protected Area BP Protection Forest FN/FE National or State Forest MN Natural Monument

PP Protected Landscape PDyANMI Departmental Park and ANMI PN/PR/PM National, Regional or Municipal Park PNyTI National Park and Indigenous Territory

PNP Natural Heritage Landscape RBiF Wildlife Biological Reserve RCEA Ecological and Archaeological Scientific Reserve

RC Community Reserve RDS Sustainable Development Reserve RByTI Biosphere Reserve and Indigenous Territory RVS Wildlife Reserve

Rex Extractive Reserve RF Forest Reserve RFP Protective Forest Reserve RN/RM National or Municipal Reserve RNFA National Reserve of Andean Fauna

RNSC Natural Reserve of the Civil Society RP Landscape Reserve SVS Wildlife Sanctuary

sustainable use/conservation use areas with double use or yet to be defined acronym category BP Protective Forest PNyANMI National Park and ANMI

ZR Reserved Area Notes: 1. In the toponyms, the Protected Areas are labelled (D), (M) or (R) to indicate State, Municipal or Regional, respectively. National Protected Areas are not indicated, nor those where this information is explicit in the category. 2. Because of scale, not all areas can be identified by name. 3. Data sources available in the overleaf.

STABLE FOREST IN AMAZONIA 1985 - 2022 Prepared by RAISG (2023) using MapBiomas Amazonia, Collection 5

Stable forest (mapped as forest in all years) Non-forested natural system Anthropic area in 2022

GOIÁS

REx Marinha de Tracuateua REx Marinha de Caeté-Taperaçu

REx Marinha de Aral-Peroba PE Marinho do Parcel Manuel Luis

Amazonian Network of Georeferenced Socio-Environmental Information (RAISG)

2022



AMAZONIA 2023 PROTECTED AREAS **INDIGENOUS TERRITORIES** 

#### [ stable forest 1985-2022 ]

updates the information on these management figures in the Amazon region and includes data on the forests

that remained stable between 1985 and 2022 for the first time. With this series of publications, prepared by the Amazon Network of Georeferenced Socio-Environmental Information (RAISG), we propose a comprehensive perspective of the Amazon at its different scales. Our goal is to ensure that the NPAs and the ITs, which today represent 49% of the Amazon region, are recognized as relevant territorial units for the conservation and sustainable use of Amazonian ecosystems, both forested and non-forested.

This publication is the result of the coordinated and ongoing work of eight civil society institutions present in the Amazonian countries. As a Network, we work on a joint agenda that is involves shared and decentralized protocols for information management<sup>1</sup>, allowing us to carry out thematic analysis. It is important to consider that when creating an equivalent cartographic representation for different countries based on a common legend, it is necessary to consider the particularities of each one. Adjustments were made to international boundaries to have a continuous, unified base, thus avoiding gaps and overlaps. Regarding Natural Protected Areas (NPAs), the information was classified according to a common attribute, the type of use, while the Indigenous Territories (ITs) were classified based on the existence (or not) of some degree of official recognition or indigenous people's demands.

Since 2008, one of RAISG's priorities has been to periodically monitor deforestation in the Amazonian forests, as it serves as a crucial indicator to understand the speed at which the landscape is transforming. This analysis also fills a void in regional-scale information, as previously, data on forest loss were generated in a fragmented manner within each country.

Note: Country names are written in their original language in all versions of the map.

I This protocol was updated in 2017 and includes vegetation cover and land use data generated by MapBiomas Amazonia, an initiative led by RAISG with initial support from MapBiomas Brazil and, later, MapBiomas Network

## FOREST IN THE AMAZON 1985-2022

In 1985, the Amazonia hosted a forested area of approximately 7 million km<sup>2</sup>, equivalent to 82% of its total area (8,470,209 km<sup>2</sup>), according to the boundaries defined by RAISG based on biogeographic, hydrological (basins), political-administrative, and official criteria. These forests include four types of coverages taken from MapBiomas Amazonia collection 5: forest formation (dense forest), mangrove (mangrove forest), flooded forest and open forest.

For that same year, the distribution of the Amazonian forest was as follows: 63.2% in Brazil, 10.4% in Peru, 6.7% in Bolivia, 6.5% in Colombia, 5.7% in Venezuela and the remaining 7.4% distributed between Ecuador (1.5%), Guyana (2.7%), Suriname (2%), and Guyane Française (1.2%).

Thirty-eight years later, in 2022, we see that the Amazonia has lost almost 800 thousand square kilometers of forest, or the equivalent of twice the surface area of Paraguay. This figure represents a little over 11% of the existing forest area in 1985.

Between 1985 and 2022, the largest loss of forested area occurred outside Indigenous Territories and Protected Natural Areas, accounting for 93% of the total loss (approximately 743 thousand km<sup>2</sup>). In ITs, which have a larger extent than NPAs, there was 4.3% reduction in forest cover, while in NPAs, the reduction was 3%. Proportionally, the loss of these forest formations is slightly higher in ITs than in NPAs.

From the perspective of forest conservation, by 2022, the ITs held 34% of their total coverage, while the NPAs preserved 28%. Considering them together, both management figures, and accounting for the 6% overlap between them, Indigenous Territories and Natural Protected Areas provided special protection conditions for 56% of the forest ecosystems in the region. Outside of these units, 44% of the forests remained.

As mentioned, the forest loss between 1985 and 2022, accounting for the total 11.4%, was concentrated 9.6% in Brazil (671,597 km<sup>2</sup>), 0.8% in Bolivia (55,923 km<sup>2</sup>), and 0.4% (approximately 28 thousand km<sup>2</sup>) in Peru and Colombia. This implies that forest loss is more pronounced in Bolivia than in Peru, considering that the forest area in Peru is larger than that of Bolivia.

Additionally, regarding the extent of forest in 1985 by country, the loss in Brazil and Bolivia exceeds the regional value, with 15 and 12%, respectively. They are followed by Colombia, with 6%, and Ecuador, with 5.5%. Among the remaining countries, only Venezuela surpasses 1% in the elimination of its existing forest in 1985. In the first four countries, the removal of forest cover was notably more intense during these 38 years (figures 2, 3).

Following the trend of the region, most of the forest loss in each Amazonian country, in the period of interest, took place outside the ITs and NPAs. However, some experienced a significant impact on their ITs and NPAs. This was the case of Venezuela, with a 45% elimination of forest within these categories, followed by Ecuador with 34%, Guyane Française with 27%, Peru with 24%, and Bolivia with 23%.

## **STABLE FOREST BETWEEN 1985 AND 2022**

Despite extensive research revealing the pressing need to reinforce actions to preserve tropical forests (due to their multiple environmental functions, such as the shelter of a great biological diversity, the preservation of natural cycles and climatic stability) the context remains adverse. In 2020, the Atlas "Amazonia Under Pressure", published by RAISG, presented the panorama of the critical situation facing the Amazon region and its indigenous peoples. This publication pointed out how over the last decade, pressures and threats to the Amazon have increased at an alarming rate; highways and hydroelectric megaprojects, the promotion of extractive industries, the expansion of agricultural areas and the development of illegal activities have been part of the triggers.

Within this context, information from the new analysis shows how between 1985 and 2022, the forest areas that remain stable, i.e., that have not experienced marked intervention processes, cover an area close to 6 million square kilometers and represent 69% of the entire region. In other words, of the estimated forest area for 2022 (6.2 million km<sup>2</sup>), 95% corresponds to forests that have remained stable in the Amazon, while 5% is related to new forested areas compared to 1985, which can include recovered areas, secondary growth forests, or forest plantations.

Fortunately, the largest proportion of these stable forests (58%) are found on indigenous peoples' lands and in natural protected areas, with an area of more than 3.3 million square kilometers. As already mentioned, the greatest forest transformation or loss (93%) took place outside these types of territorial use or management categories. However, it is worth highlighting that part of these indigenous territories are awaiting recognition, i.e., they are not yet officially recognized.

Considering that 42% of stable forests do not have protection categories or are not part of indigenous lands, the susceptibility to forest loss in this type of areas is greater than in the ITs and NPAs, as demonstrated by 38 years of analysis. Therefore, it is urgent to take measures for its conservation given the possible impact that its loss could represent for climate stability and the preservation of biological diversity. On the other hand, it is also clear what the role of indigenous peoples and natural protected areas has been in the preservation of these tropical forests, since in these areas the removal of the forest has been significantly less.

These results only confirm the value of indigenous peoples' management and how they contribute to the conservation of Amazonian landscapes. Various authors, including Fa et al. (2021)<sup>2</sup> have indicated that the acknowledgement of indigenous rights, particularly territorial rights, are crucial to conserve carbon sinks, as well as to protect ourselves against global warming and other effects of climate change. This role is complemented, with similar successful results, by NPAs that, to a large extent, overlap with ITs.

In the countries of the Amazon region, more than 50% of the extension of forests that have remained stable since 1985 are within ITs or NPAs, except in the case of Guyana where more than 75% is outside this type of management unit. For Suriname we cannot affirm this because no information on indigenous territories was provided.

On a national scale, ITs or NPAs serve as conservation strategies for Amazonian forests, while those external to these management units run a significant risk of being eliminated and thereby affecting not only biological diversity, but also climate stability, environmental services, among other benefits that the Amazon provides.

#### Sources

produced by FAN base don CEJIS.2021.

SURINAME: ACT Suriname - Rivers, roads, main towns and political boundaries: DCW; Protected Areas: World Database Protected Areas (WDPA), 2006.

figure 1. Total forest cover in the Amazon in 2022



Indigenous Territories (IT) IT + NPA Natural Protected Area (NPA) Not protected



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(1) The area of Amazonia has been calculated by GIS, using a single layer of "international reference boundaries", on a Sinusoidal MC-60 projection. (2) The total area of Amazonia includes: the biogeographical boundaries in Colombia and Venezuela; the boundaries of the Amazon hydrographic basin in Perú, Bolivia, and Ecuador; the boundary of the Amazônia Legal region and of the Amazon hydrographic basin in Brasil; and the entire national areas of Guyana, Guyane Française and Suriname. Areas of NPA and IT partially in Amazonia are calculated by excluding those areas that are not part of the Amazon region. In the case of coastal areas, the terrestrial portion is included, but not the marine portion. (3) El cálculo de área excluye la superposición entre categorías, utilizándose el seguiente orden jerárquico: nacionales uso de conservación; departamentales uso de conservación; nacionales uso sostenible/conservación; nacionales uso sostenible; departamentales uso sostenible. No se excluyó en esta parte de la tabla la superposición con Territorios Indígenas. (4) Protection Forests categorised as sustainable/conservation use NPAs are not part of the National System of Protected Areas (SNAP) of Ecuador (5) The calculation of area in this section of the table does not exclude overlaps with protected natural areas.

113.330

272,751

32,733

353,348

53.9%

6.5%

69.9% 102.304

72.972

24.022

22.2%

2.0%

44.7%

40.3%

55.2%

18.2%

10.402

31,784

1,015

77.3% 41,171

15.1%

0.5%

19.5% 35,262

7,154

6,653

BOLÍVIA: FAN – Roads: Administradora Boliviana de Carreteras (ABC), 2020 • Urban settlements, population: Instituto Nacional de Estadísticas (INE), 2013 • Political boundaries: adapted by FAN based on Instituto Geográfico Militar (IGM), 2022 • IT (Territorio Indígena Originário Campesino): Instituto Nacional de Reforma Agraria (INRA), 2018 • Natural Protected Areas: Servicio Nacional de Áreas Protegidas (SERNAP), Ministerio de Medio Ambiente y Agua (2012, 2022); Conservación Internacional, 2023; Gobiernos Autónomos Municipales de La Paz (2013), Charagua (2019) • Indigenous population: produced by FAN based on Fundación Tierra, 2011 and INE, 2013 (Census 2012) • Isolated Indigenous: BRASIL: Rivers, main towns and political boundaries: digital database by IBGE, 2006 • Roads: produced by ISA based on State Governments, Departamento Nacional de Infraestutura de Transportes (DNIT, 2017) • Indigenous Territories and Protected Natural Areas: digitalized by ISA based on official documents, on the basis of

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	Colombia		Ecuador		Guyana		Guyane Française		Perú		Suriname		Venezuela		
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24.5%	113,330	22.4%	53,353	48.3%	10,402	4.9%	34,760	41.3%	207,330	21.5%	26,049	17.8%	198,004	42.1%	2,162,7	
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54.9% 26,049 17.8% 354,287

17.8% 198.004

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RAISG The AMAZONIAN NETWORK OF GEOREFERENCED SOCIO-ENVIRONMENTAL INFORMATION is a space for the

exchange and networking of GIS-based socio-environmental information in support of processes that actively link collective rights to the promotion and sustainability of the socio-environmental diversity of the Amazon region.

> RAISG produces the most comprehensive socio-environmental intelligence reports on Amazonia so that the region can be better understood, appreciated and looked after.

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