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GLOSSARY

AZEs Alliance for Zero Extinction sites
CEPF Critical Ecosystem Partnership Fund

EBSA Ecologically or Biologically Significant Marine Area

EEZ Exclusive Economic Zone
GCF Green Climate Fund

GD-PAME Global Database on Protected Area Management Effectiveness

GEF Global Environment Facility

IBA Important Bird and Biodiversity Area

ICCAs Indigenous and Community Conserved Area Area (may also be referred to as

territories and areas conserved by Indigenous peoples and local communities or

"territories of life")

IPLC Indigenous Peoples and Local Communities

KBA Key Biodiversity Area

MEOW Marine Ecosystems of the World

MPA Marine Protected Area

NBSAP National Biodiversity Strategy and Action Plan
OECM Other Effective Area-Based Conservation Measures

PA Protected Area

PAME Protected Area Management Effectiveness

PPA Privately Protected Area

PPOW Pelagic Provinces of the World ProtConn Protected Connected land indicator

SOC Soil Organic Carbon

TEOW Terrestrial Ecosystems of the World WDPA World Database on Protected Areas

WD-OECM World Database on Other Effective Area-Based Conservation Measures

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This country dossier is compiled by the UNDP and SCBD from publicly available information. It is prepared, within the overall work of the Global Partnership on Aichi Biodiversity Target 11, for the purpose of attracting the attention of the Party concerned and other national stakeholders to facilitate the verification, correcting, and updating of country data. The statistics might differ from those reported officially by the country due to differences in methodologies and datasets used to assess protected area coverage and differences in the base maps used to measure terrestrial and marine area of a country or territory. Furthermore, the suggestions from the UNDP and SCBD are based on analyses of global datasets, which may not necessarily be representative of national policy or criteria used at the national level. The analyses are also subject to the limits inherent in global indicators (precision, reliability, underlying assumptions, etc.). Therefore, they provide useful information but cannot replace analyses at a national level nor constitute a future benchmark for national policy or decision-making.

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EXECUTIVE SUMMARY

This document provides information on the coverage of protected areas (PAs) and other effective area-based conservation measures (OECMs), as currently reported in global databases (the World Database on Protected Areas (WDPA) and World Database on Other Effective Area-Based Conservation Measures (WD-OECM)). It also includes details on the status of the other qualifying elements of Aichi Biodiversity Target 11 based on this data. These statistics might differ from those reported officially by countries due to difference in methodologies and datasets used to assess protected area coverage, differences in the base maps used to measure terrestrial and marine area of a country or territory, or if global datasets differ from the criteria and indicators used at the national level. This dossier also provides a summary of commitments made under Aichi Biodiversity Target 11, and a summary of potential opportunities regarding elements of the target for future planning.

The dossier has been developed in consultation with the UN Environment Programme World Conservation Monitoring Centre (UNEP-WCMC), which manages the WDPA, WD-OECM and Global Database on Protected Area Management Effectiveness (GD-PAME). Parties to the CBD are requested to contact protectedareas@unep-wcmc.org with any updates to the information in these databases.

Aichi Biodiversity Target 11 Elements: Current status and opportunities for action

Coverage - Terrestrial & Marine

- **Status:** as of May 2021, terrestrial coverage in Guyana is 17,952.5 km² (8.5%) and marine coverage is 25.9 km² (0.0%).
- **Opportunities for action:** opportunities include the recognizing and reporting OECMs to the WD-OECM, which will require capacity-building and training in how to effectively identify, manage and monitor OECMs, as well as training on how to collect and report the data. In the future, focus on relatively intact areas, while addressing the elements in the following sections, could be considered when planning new PAs or OECMs.

Ecological Representativeness—Terrestrial & Marine

- **Status:** Guyana contains 8 terrestrial ecoregions, 1 marine ecoregion, and 1 pelagic province: the mean coverage by reported PAs and OECMs is 11.6% (terrestrial), 0.0% (marine), and 0.0% (pelagic); 2 terrestrial ecoregion and 1 pelagic province have no coverage from reported PAs and OECMs.
- **Opportunities for action:** there is opportunity for Guyana to increase protection in terrestrial and marine ecoregions and pelagic provinces that have lower levels of coverage by PAs or OECMs. Ecoregions which currently have no coverage by PAs or OECMs are key areas for action.

Areas Important for Biodiversity

- **Status:** Guyana has 1 Key Biodiversity Area (KBA): the coverage of by reported PAs and OECMs is 3.9%.
- **Opportunities for action:** there is opportunity for Guyana to increase protection of the 1 currently listed KBA. There is also opportunity to review the inclusion of other important areas (e.g., Kaieteur/Upper Potaro and the Kunuku Mountains) as KBAs.

Areas Important for Ecosystem Services

- **Status:** coverage of areas important for ecosystem services: In Guyana, 9.1% of aboveground biomass carbon, 9.0% of belowground biomass carbon, 8.9% of soil organic carbon, 0.2% of carbon stored in marine sediments is covered by PAs and OECMs.
- **Opportunities for action:** for carbon, there is opportunity for Guyana to increase PA and OECM coverage in both marine and terrestrial areas with high carbon stocks. Protecting areas with high carbon stocks secures the benefits of carbon sequestration in the area.
- For water, there is opportunity to increase the area of the water catchment under protection by PAs and OECMs, or in cases where there is high levels of protection, focus on effective management for these areas. Protecting the current area of forested land and potentially reforesting would have benefits for improving water security.

Connectivity and Integration

- **Status:** coverage of protected-connected lands is 4.5%.
- **Opportunities for action:** there is opportunity for a general increase of PAs or OECMs and to focus on PA and OECM management for enhancing and maintaining connectivity. Improving connectivity increases the effectiveness of PAs and OECMs and reduces the impacts of fragmentation.
- As well, a range of suggested steps for enhancing and supporting integration are included in the voluntary guidance on the integration of PAs and OECMs into the wider land- and seascapes and mainstreaming across sectors to contribute, inter alia, to the SDGs (Annex I of COP Decision 14/8).

Governance Diversity

- **Status:** the most common governance type(s) for reported PAs in Guyana is: 66.7% under Government (Federal or national ministry or agency).
- **Opportunities for action:** there is opportunity for Guyana to complete governance and equity assessments, to establish baselines and identify relevant actions for improvement. As well, a range of suggested actions are included in the voluntary guidance on effective governance models for management of protected areas, including equity (Annex II of COP Decision 14/8).

Protected Area Management Effectiveness

- **Status:** 100.0% of terrestrial PAs have completed Protected Area Management Effectiveness (PAME) assessments reported; there are currently no marine PAs established in Guyana.
- **Opportunities for action:** the 60% target for completed management effectiveness assessments (per COP Decision X/31) **has** been met for terrestrial PAs, and there are currently no marine PAs in Guyana. There is opportunity to implement the results of completed PAME evaluations for terrestrial PAs, to improve the quality of management for existing PAs and OECMs (e.g. through adaptive management and information sharing, increasing the number of sites reporting 'sound management') and to increase reporting of biodiversity outcomes in PAs and OECMs. As marine PAs are established, there is opportunity to complete PAME evaluations for these new sites.

INTRODUCTION

The Strategic Plan for Biodiversity 2011-2020 was adopted at the tenth meeting of the Conference of the Parties (COP) to the Convention on Biological Diversity (CBD) held in Nagoya, Aichi Prefecture, Japan from 18-29 October 2010. The vision of the Strategic Plan is one of "Living in harmony with nature" where "By 2050, biodiversity is valued, conserved, restored and wisely used, maintaining ecosystem services, sustaining a healthy planet and delivering benefits essential for all people" (CBD, 2010). In addition to this vision, the Strategic Plan is composed of 20 targets, under five strategic goals. Aichi Biodiversity Target 11 states that "By 2020, at least 17 per cent of terrestrial and inland water, and 10 per cent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well-connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes."

With the conclusion of the Aichi Biodiversity Targets in 2020, Target 11 on area-based conservation has seen success in the expansion of the global network of protected areas (PA) and other effective area-based conservation measures (OECMs). The negotiation of the post-2020 Global Biodiversity Framework (GBF) and its future targets provide an essential opportunity to further improve the coverage of PAs and OECMs, to improve other aspects of area-based conservation, to accelerate progress on biodiversity conservation more broadly, while also addressing climate change, and the Sustainable Development Goals. This next set of global biodiversity targets are to be adopted at the fifteenth meeting of the Conference of the Parties to the Convention on Biological Diversity. These new targets must aim to build upon lessons learned from the last decade of progress to deliver transformative change for the benefit of nature and people, to realize the 2050 Vision for biodiversity.

The United Nations Development Programme (UNDP) and the Secretariat of the Convention on Biological Diversity have developed the Aichi Biodiversity Target 11 Country Dossiers, which provide countries with an overview of the status of Target 11 elements, opportunities for action, and a summary of commitments made by Parties over the last decade. Each dossier can support countries in assessing their progress on key elements of Aichi Biodiversity Target 11 and identifying opportunities to prioritize new protected areas and OECMs.

This dossier provides an overview of area-based conservation in Guyana. Section I of the dossier presents data on the current status of Guyana's PAs and OECMs. The data presented in Section I relates to each element of Target 11. Section I also presents the PA and OECM coverage for two critical ecosystem services: water security and carbon stocks. In addition, the dossier presents potential opportunities for action for Guyana, in relation to each Target 11 element. The analyses present options for improving Guyana's area-based conservation network to achieve enhanced protection and benefits for livelihoods and climate change. Section II presents details on Guyana's existing PA and OECM commitments as a summary of existing efforts towards achieving Target 11. This gives focus not only to national policy and actions but also voluntary commitments to the UN. Furthermore, where

data is available, this dossier provides information on potential OECMs, Indigenous and Community Conserved Areas (ICCAs; also often referred to as territories and areas conserved by Indigenous peoples and local communities or "territories of life") and Privately Protected Areas (PPAs) and the potential contribution they will have in achieving the post-2020 targets.

The information on PAs and OECMs presented here is derived from the World Database on Protected Areas (WDPA) and World Database on Other Effective Area-Based Conservation Measures (WD-OECM). These databases are joint products of UNEP and IUCN, managed by UNEP-WCMC, and can be viewed and downloaded at www.protectedplanet.net. Parties are encouraged to provide data on their PAs and OECMs to UNEP-WCMC for incorporation into the databases (see e.g. Decisions 10/31 and 14/8). The significant efforts of Parties in updating their data in the build up to the publication of the Protected Planet Report 2020 (UNEP-WCMC and IUCN, 2021) were greatly appreciated. UNEP-WCMC welcomes further updates, following the data standards described here (www.wcmc.io/WDPA_Manual), and these should be directed to protectedareas@unep-wcmc.org. The statistics presented in this dossier are derived from the May 2021 WDPA and WD-OECM releases, unless explicitly stated otherwise. Readers should consult www.protectedplanet.net for the latest coverage statistics (updated monthly).

Some data from the WDPA and WD-OECM are not made publicly available at the request of the data-provider. This affects some statistics, maps, and figures presented in this dossier. Statistics provided by UNEP-WCMC (terrestrial and marine coverage) are based upon the full dataset, including restricted data. All other statistics, maps, and figures are based upon the subset of the data that is publicly available.

Where data is less readily available, such as for potential OECMs, ICCAs and PPAs, data has also been compiled from published reports and scientific literature to provide greater awareness of these less commonly recorded aspects. These data are provided to highlight the need for comprehensive reporting on these areas to the WDPA and/or WD-OECM. Parties are invited to work with indigenous peoples, local communities and private actors to submit data under the governance of these actors, with their consent, to the WDPA and/or WD-OECM.

Overall, PAs and OECMs are essential instruments for biodiversity conservation and to sustain essential ecosystem services that support human well-being and sustainable development, including food, medicine, and water security, as well as climate change mitigation and adaptation and disaster risk reduction. The data in this dossier, therefore, aims to celebrate the current contributions of PAs and OECMs, whilst the gaps presented hope to encourage greater progress, not just for the benefit of biodiversity and the post-2020 GBF, but also to recognize the essential role of PAs and OECMs to the Sustainable Development Goals and for addressing the climate crisis.

SECTION I: CURRENT STATUS

Aichi Biodiversity Target 11 refers to both protected areas (PAs) and other effective areabased conservation measures (OECMs). This section provides the current status for all elements of Aichi Biodiversity Target 11 where indicators with global data are available. Statistics for all elements are presented using data on both PAs and OECMs (where this data is available and reported in global databases like the WDPA and WD-OECM). It is recognized that statistics reported in the WPDA and WD-OECM might differ from those reported officially by countries due to differences in methodologies and datasets used to assess protected area coverage and differences in the base maps used to measure terrestrial and marine area of a country or territory. Details on UNEP-WCMC's methods for calculating PA and OECM coverage area available here. The global indicators adopted here for presenting the status of other elements of Target 11 may also differ from those in use nationally. Where available, results from national reporting are also included.

COVERAGE - TERRESTRIAL & MARINE

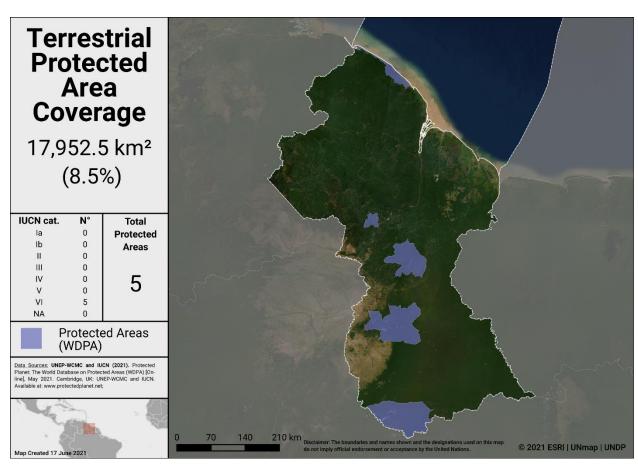
As of May 2021, Guyana has **5** protected areas reported in the World Database on Protected Areas (WDPA).

As of May 2021, Guyana has **0** OECMs reported in the world database on OECMs (WD-OECM).

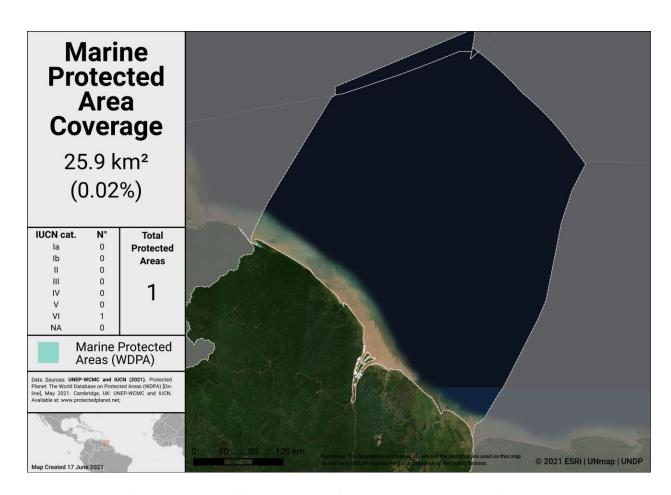
Current coverage for Guyana:

- 8.5% terrestrial (5 protected areas, 17,952.5 km²)
- 0.0% marine (1 protected areas, 25.9 km²)

Marine coverage is actually 0% (there are no marine PAs in Guyana). There is one coastal PA (Shell Beach) but its boundaries end where the shore meets the sea. There may be a challenge with the shapefiles, which shows the inclusion of part of the sea, but may be also be the result of erosion reclaiming part of the land.



Terrestrial Protected Areas in Guyana



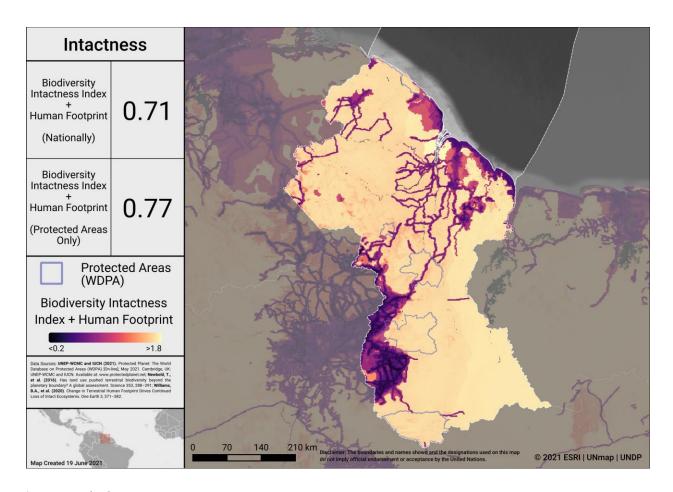
Marine Protected Areas in Guyana (there are currently no Marine PAs in Guyana)

Potential OECMs

Since Guyana is considering the expansion of the Protected Area System which may include OECMs, there is need for capacity-building and training in how to effectively identify, manage and monitor OECM, as well as training on how to collect and report the data (to the WD-OECM).

Opportunities for action

Opportunities for the near-term include the recognizing and reporting OECMs to the WD-OECM, which will require capacity-building and training in how to effectively identify, manage and monitor OECMs, as well as training on how to collect and report the data. In the future, as Guyana considers where to add new PAs and OECMs, the map below identifies areas in Guyana where intact terrestrial areas are not currently protected. Focus on relatively intact areas, while addressing the elements in the following sections, could be considered when planning new PAs or OECMs.



Intactness in Guyana

To explore more on intactness visit the UN Biodiversity Lab: map.unbiodiversitylab.org.

ECOLOGICAL REPRESENTATIVENESS – TERRESTRIAL & MARINE

Ecological representativeness is assessed based on the PAs and OECMs coverage of broadscale biogeographic units. Globally, ecoregions have been described for terrestrial areas (Dinerstein et al, 2017), marine coastal and shelf ecosystems (to a depth of 200m; Spalding et al 2007) and surface pelagic waters (Spalding et al 2012).

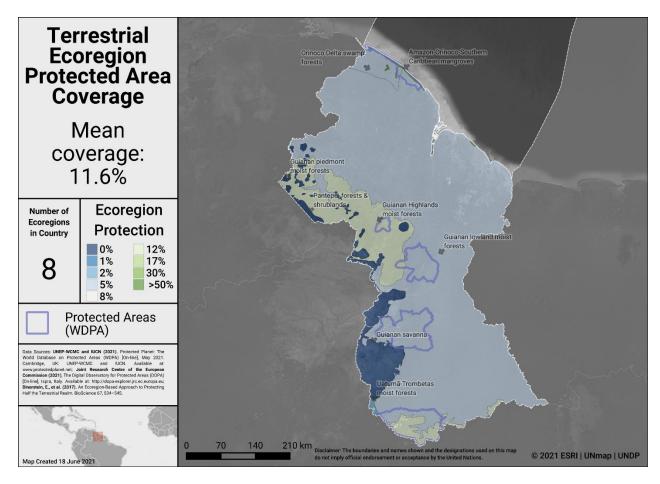
Guyana has 8 **terrestrial** ecoregions. Out of these:

- 6 ecoregions have at least some coverage from PAs and OECMs.
- 1 ecoregion has at least 17% protected within the country.
- The average terrestrial coverage of ecoregions is 11.6%.

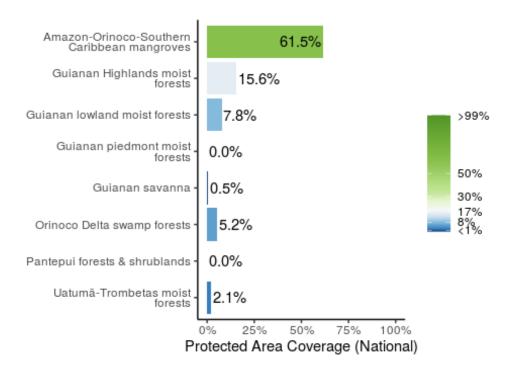
Guyana has 1 marine ecoregion and 1 pelagic province:

Reported coverage from PAs and OECMs is 0.0% (marine ecoregion) and 0.0% (pelagic province).

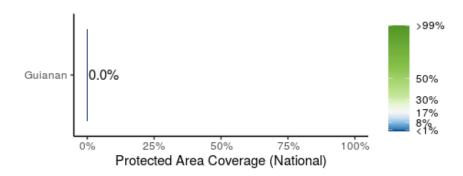
A full list of terrestrial ecoregions in Guyana is available in Annex I.



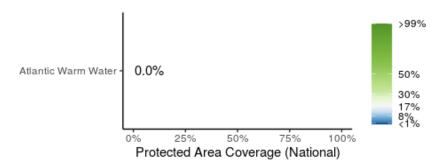
Terrestrial ecoregions in Guyana



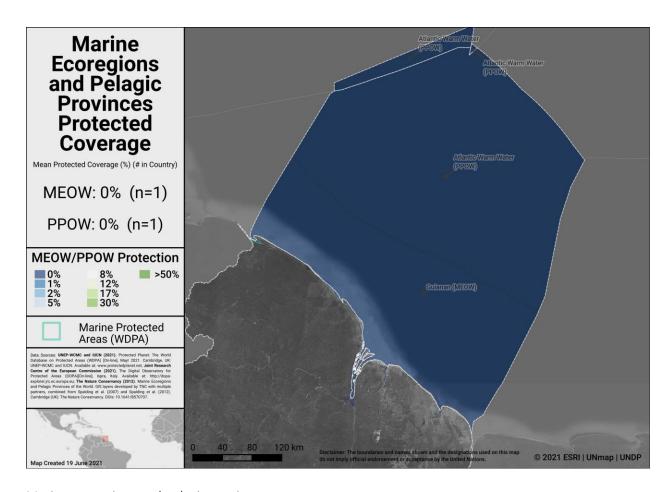
Terrestrial ecoregions of the World (TEOW) in Guyana



Marine Ecoregions of the World (MEOW) in Guyana



Pelagic Provinces of the World (PPOW) in Guyana



Marine ecoregions and pelagic provinces

Opportunities for action

There is opportunity for Guyana to increase protection in terrestrial and marine ecoregions and pelagic provinces that have lower levels of coverage by PAs or OECMs. Ecoregions which currently have no coverage by PAs or OECMs are key areas for action.

AREAS IMPORTANT FOR BIODIVERSITY

Key Biodiversity Areas (KBAs)

Protected area and OECM coverage of Key Biodiversity Areas (KBAs) provide one proxy for assessing the conservation of areas important for biodiversity at national, regional and global scales. KBAs are sites that make significant contributions to the global persistence of biodiversity (IUCN, 2016). The KBA concept builds on four decades of efforts to identify important sites for biodiversity, including Important Bird and Biodiversity Areas, Alliance for Zero Extinction sites, and KBAs identified through Hotspot ecosystem profiles supported by the Critical Ecosystem Partnership Fund. Incorporating these sites, the dataset of internationally significant KBAs includes Global KBAs (sites shown to meet one or more of 11 criteria in the Global Standard for the Identification of KBAs, clustered into five categories: threatened biodiversity; geographically restricted biodiversity; ecological integrity; biological processes; and irreplaceability), Regional KBAs (sites identified using pre-existing criteria and thresholds, that do not meet the Global KBA criteria based on existing information), and KBAs whose Global/Regional status is Not yet determined, but which will be assessed against the global KBA criteria within 8-12 years. Regional KBAs are often of critical international policy relevance (e.g., in EU legislation and under the Ramsar Convention on Wetlands), and many are likely to qualify as Global KBAs in future once assessed for their biodiversity importance for other taxonomic groups and ecosystems. To date, nearly 16,000 KBAs have identified globally, and information on each of these is presented in the World Database of Key Biodiversity Areas: www.keybiodiversityareas.org.

Guyana has 1 Key Biodiversity Area (KBA).

• It has partial coverage by PAs and OECMs: **3.9%**.

Ecologically or Biologically Significant Marine Areas (EBSAs)

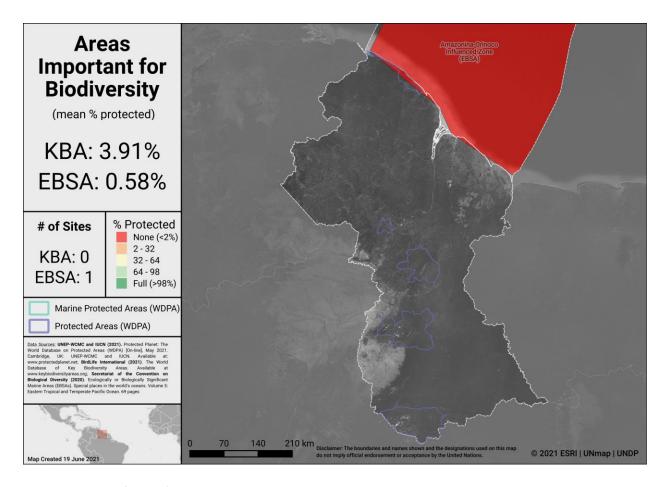
Other important areas for biodiversity may also include Ecologically or Biologically Significant Marine Areas (EBSAs), which were identified following the scientific criteria adopted at COP-9 (Decision IX/20; see more at: https://www.cbd.int/ebsa/). Sites that meet the EBSA criteria may require enhanced conservation and management measures; this could be achieved through means including MPAs, OECMs, marine spatial planning, and impact assessment.

Guyana has 1 EBSA with some portion of their extent within Guyana's EEZ.

Other important areas for biodiversity:

- *Kaieteur Plateau:* where there have been discoveries of potentially 30 new species endemic to the area (current % coverage is unknown).
- *Kanuku mountains* for its high & rich biodiversity.

Guyana has suggested that the Kaieteur/Upper Potaro plateau be included as a KBA (currently protected under Kaieteur National Park) based on the high value it carries for potentially undiscovered endemic species (e.g Golden frog, Blue tarantula etc.). Similarly, the Kunuku Mountains is another biodiversity hotspot of the country.



Areas Important for Biodiversity in Guyana

Opportunities for action

There is opportunity for Guyana to increase protection of the 1 currently listed KBA, that has partial coverage by PAs and OECMs. There is also opportunity to review the inclusion of other important areas (e.g., Kaieteur/Upper Potaro and the Kunuku Mountains) as KBAs.

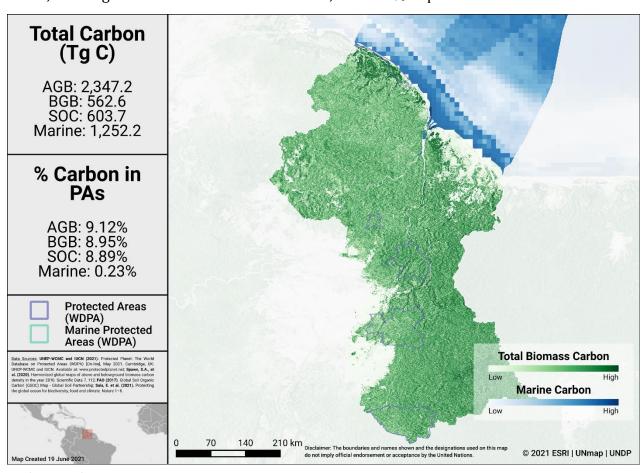
AREAS IMPORTANT FOR ECOSYSTEM SERVICES

There is no single indicator identified for assessing the conservation of areas important for ecosystem services. For simplicity, two services with available global datasets are assessed here (carbon and water). In future, other critical ecosystem services could be explored.

Carbon

Data for biomass carbon comes from temporally consistent and harmonized global maps of aboveground biomass and belowground biomass carbon density (at a 300-m spatial resolution); the maps integrate land-cover specific, remotely sensed data, and land-cover specific empirical models (see Spawn et al., 2020 for details on methodology). The Global Soil Organic Carbon Map present an estimation of SOC stock from 0 to 30 cm (see FAO, 2017). Data is also presented from global maps of marine sedimentary carbon stocks, standardized to a 1-meter depth (see Sala et al., 2021, and Atwood et al., 2020).

The map below presents the total carbon stocks in Guyana and the percent of carbon in protected areas. The total carbon stock is: 2,347.2 Tg C from aboveground biomass (AGB), with 9.1% in protected areas; 562.6 Tg C from below ground biomass (BGB), with 9.0% in protected areas; 603.7 Tg C from soil organic carbon (SOC), with 8.9% in protected areas; and 1,252.2 Tg C from marine sediment carbon, with 0.2% in protected areas.



Carbon Stocks in Guyana

Water

Forests support stormwater management and clean water availability, especially for large urban populations. Research that has examined the role of forests for city drinking water supplies shows that of the world's 105 largest cities, more than 30% (33 cities) rely heavily on the local protected forests, which provide ecosystem services that underpin local drinking water availability and quality (Dudley & Stolton, 2003)

Drinking water supplies for cities in Guyana may similarly depend on protected forest areas within and around water catchments. Intact catchments can support more consistent water supply and improved water quality.

Opportunities for action

For carbon, there is opportunity for Guyana to increase PA and OECM coverage in both marine and terrestrial areas with high carbon stocks, as identified in the map above. Protecting areas with high carbon stocks secures the benefits of carbon sequestration in the area.

For water, there is opportunity to increase the area of the water catchment under protection by PAs and OECMs, or in cases where there is high levels of protection, focus on effective management for these areas. Protecting the current area of forested land and potentially reforesting would have benefits for improving water security.

CONNECTIVITY & INTEGRATION

Two global indicators, the Protected Connected land indicator (ProtConn; EC-JRC, 2021; Saura et al., 2018) and the PARC-Connectedness indicator (CSIRO, 2019), have been proposed for assessing the terrestrial connectivity of PA and OECM networks. To date there is no global indicator for assessing marine connectivity, though some recent developments include proposed guidance for the treatment of connectivity in the planning and management of MPAs (see Lausche et al., 2021).

Protected Connected Land Indicator (Prot-Conn)

As of January 2021, as reported in the Joint Research Centre of the European Commission's Digital Observatory for Protected Areas (DOPA) (JRC, 2021), the coverage of protected-connected lands (a measure of the connectivity of terrestrial protected area networks, assessed using the ProtConn indicator) in Guyana was 4.5%.

PARC-Connectedness Index

In 2019, as assessed using the PARC-Connectedness Index (values ranging from 0-1, indicating low to high connectivity), connectivity in Guyana is 0.58. This represents a slight decrease from 0.59 in 2010.

Corridor case studies

There are currently no corridor case studies available for Guyana (but see general details on conserving connectivity through ecological networks and corridors in Hilty et al 2020).

Opportunities for action

There is opportunity for a general increase of PAs or OECMs and to focus on PA and OECM management for enhancing and maintaining connectivity. Improving connectivity increases the effectiveness of PAs and OECMs and reduces the impacts of fragmentation.

As well, a range of suggested steps for enhancing and supporting integration are included in the voluntary guidance on the integration of PAs and OECMs into the wider land- and seascapes and mainstreaming across sectors to contribute, inter alia, to the SDGs (Annex I of COP Decision 14/8).

GOVERNANCE DIVERSITY

There is a lack of comprehensive global data on governance quality and equity in PAs and OECMs. Here, we provide data on the diversity of governance types for reported PAs and OECMs.

As of May 2021, PAs in Guyana reported in the WDPA have the following governance types:

- 66.7% are governed by **governments** (by federal or national ministry or agency)
- 16.7% are under **shared** governance (under joint governance)
- 0.0% are under **private** governance
- 16.7% are under **IPLC** governance (by Indigenous Peoples)
- 0.0% do not report a governance type

OECMs

As of May 2021, there are **0** OECMs in Guyana reported in the WD-OECM, therefore there is no data available on OECM governance types.

Privately Protected Areas (PPAs)

There are no Privately Protected Areas (PPAs) to report in Guyana.

Other Indigenous lands

Lands managed and/or controlled by Indigenous Peoples cover an area of 31,742 km², of which 24,850 km² falls outside of formal protected areas. Indigenous lands with a human footprint less than 4 (considered as 'natural landscapes') cover an area of 27,650 km² (for details on analysis see Garnett et al., 2018).

For Guyana, evidence for the presence of Indigenous Peoples comes from: Indigenous Work Group on Indigenous Affairs. Indigenous World 2017 (Indigenous Working Group on Indigenous Affairs, 2017).

Boundaries of the lands Indigenous Peoples manage or have tenure rights over come from: Amazônia Socioambiental. Rede Amazônica de Informação Socioambiental Georreferenciada. https://www.amazoniasocioambiental.org/mapas/ (2017); EcoCiencia (José Luis Aragón pers. comm.).

Opportunities for action

There is opportunity for Guyana to complete governance and equity assessments, to establish baselines, and identify relevant actions for improvement. Examples of existing tools and methodologies include: Governance Assessment for Protected and Conserved Areas (Franks & Brooker, 2018), Social Assessment of Protected Areas (Franks et al 2018), and Site-level assessment of governance and equity (IIED, 2020). As well, a range of suggested actions are included in the voluntary guidance on effective governance models for management of protected areas, including equity (Annex II of COP Decision 14/8).

Equator Prize Projects

The Equator Initiative brings together the United Nations, governments, civil society, businesses and grassroots organizations to recognize and advance local sustainable development solutions for people, nature and resilient communities.

The Equator Prize projects provide examples of unique and locally based governance of natural resources. Guyana has the following Equator Prize winners that showcase examples of local, sustainable community action:

Organization Year **Project Description** South Central 2015 A federation of Wapichan communities in Guyana, South Central People's Development Association has developed an innovative land People's Development use plan and a 'living digital map' of their traditional lands to promote Association secure land rights and socioecological resilience. Community mapping teams create territorial maps that are used to make land claims and devise collective land use plans for the forest, mountain, savannah and wetland ecosystems that fall within the territory of the 17 Wapichan communities. More than 100 intercommunity agreements have been reached on the sustainable use of natural resources, the protection of wildlife and the conservation of forests. Field investigations, smart phones. GPS units and a community drone are used to detect deforestation and other environmental damage caused by illegal logging and mining in the Wapichan territory. The land use plan includes a collective vision and agreed priority activities in the fields of health, food security, education, cultural integrity, and sustainable livelihoods.



PROTECTED AREA MANAGEMENT EFFECTIVENESS

This section provides information on the coverage of PAs and OECMs with completed protected area management effectiveness (PAME) assessments as reported in the global database (GD-PAME). The proportion of terrestrial and marine PAs with completed PAME assessments is also calculated and compared with the 60% target agreed to in COP-10 Decision X/31. Information is also included regarding changes in forest cover nationally within PAs and OECMs.

Protected area management effectiveness (PAME) assessments

As of May 2021, Guyana has 5 PAs reported in the WDPA; of these PAs, all 5 (100%) have management effectiveness evaluations reported in the global database on protected area management effectiveness (GD-PAME).

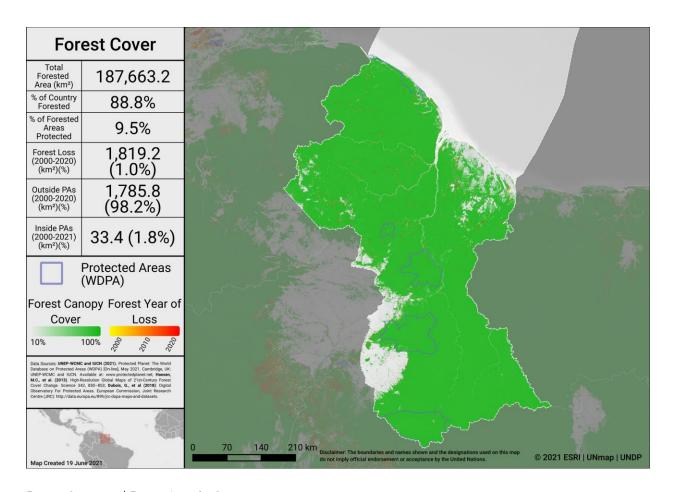
- 8.5% (17,953 km²) of the terrestrial area of the country is covered by PAs with completed management effectiveness evaluations.
 - 100.0% of the area of terrestrial PAs have completed evaluations.
- There are no marine PAs in Guyana

The 60% target for completed management effectiveness assessments (per COP Decision X/31) has been met for terrestrial PAs.

As of May 2021, there are 0 OECMs in Guyana reported in the WDOECM and no information available on the management effectiveness of potential OECMs.

Changes in forest cover in protected areas and OECMs

Forested areas in Guyana cover approximately 88.8% of the country, an area of 187,663.2 km². Approximately 9.5% (17,771.1 km²) of this is within the protected area estate of Guyana. Over the period 2000-2020 loss of forest cover amounted to over 1,819.2 km², or 0.9% of the country (1.0% of forest area), of which 33.4 km² (1.8% of forest loss) occurred within protected areas. The map below shows how forest cover has changed in Guyana from 2000-2020 both inside and outside of PAs. This can indicate how effective PAs are in reducing forest cover loss



Forest Cover and Forest Loss in Guyana

Opportunities for action

The 60% target for completed management effectiveness assessments (per COP Decision X/31) **has** been met for terrestrial PAs, and there are currently no marine PAs in Guyana. There is opportunity to implement the results of completed PAME evaluations for terrestrial PAs, to improve the quality of management for existing PAs and OECMs (e.g. through adaptive management and information sharing, increasing the number of sites reporting 'sound management') and to increase reporting of biodiversity outcomes in PAs and OECMs. As marine PAs are established, there is opportunity to complete PAME evaluations for these sites.

SECTION II: EXISTING PROTECTED AREA AND OECM COMMITMENTS

PRIORITY ACTIONS FROM 2015-2016 REGIONAL WORKSHOPS

National priority actions for Aichi Biodiversity Target 11 were provided by Parties following a series of regional workshops in 2015 and 2016. The Capacity-building workshop for Latin America and the Caribbean on achieving Aichi Biodiversity Targets 11 and 12 took place 28 September - 1 October 2015 in Curitiba, Paraná, Brazil. Progress towards the quantitative targets for marine and terrestrial coverage has been assessed based on data reported in the WDPA and WD-OECM as of 2021. For more information, see the workshop report at: https://www.cbd.int/meetings/

The following actions were identified during the workshops:

Terrestrial and marine coverage: Add at least the Konashen Community Owned Conservation Area to the National Protected Areas System, increasing land area covered by protected areas by another 3.

Ecological representation: Initiate process for adding representation of Savannah ecosystem type to Protected Area System.

Areas Important for biodiversity and ecosystem services:

- 1) Collect, collate, analyse and share data and information on important bird and biodiversity areas for use in management and decision-making
- 2) Conduct assessment to determine which areas are important for sustaining essential ecosystem services.

Management effectiveness:

- 1) To develop and implement an ecological and ranger-based monitoring programme across the National Protected Areas System
- 2) To improve knowledge on key resource use levels, methods of harvesting and their impacts on wildlife and fish populations in a pilot PA; To ensure the sustainable use of resources in a pilot PA.

Connectivity and Integration into the wider landscape and seascape: Revision of the National Land Use Policy and related plans following the gap analysis.

OECMs:

- 1) Collate information on area covered by conservation areas in logging operations.
- 2) Development of guidelines for governance structure and participation in the National Protected Areas System by Amerindian Protected Areas.

NATIONAL BIODIVERSITY STRATEGY AND ACTION PLANS (NBSAPs)

Guyana has submitted an NBSAP during the Strategic Plan for Biodiversity 2011-2020 (most recent NBSAP is available at: https://www.cbd.int/nbsap/search/).

Actions from the NBSAP will also address elements of Aichi Biodiversity Target 11:

NBSAP Action number	Action (original language from NBSAP)
1.1	Establish more legally protected areas.
1.6	Consider benefit-sharing mechanisms with communities surrounding the protected areas

At least 17% of terrestrial land and inland water at 10% of coastal and marine area, are under conservation by a system of protected areas and other conservation measures: To date the PAC, under the lead of the government of Guyana, has conserved approximately 8.5% of its terrestrial land and inland water through a system of protected areas covered under sound legislation. There are further proposals to potentially increase this percentage coverage, through the use of Guyana's GEF funding allocation to implement 2 new protected areas or the country's first OECMs, with strong connectivity to two already existing PAs. The proposed project is ongoing.

In the area of our commitment to protecting 10% of our marine area – The PAC in partnership with WWF Guianas is implementing a Marine Spatial Planning project that will identify a RoadMap towards marine conservation as well as elaborate a Spatial Conservation planning process that will identify potential areas for the establishment of marine protected areas. This project is ongoing.

OTHER ACTIONS/COMMITMENTS

Leaders' Pledge for Nature

Guyana **has** signed onto the Leaders' Pledge for Nature.

Political leaders participating in the United Nations Summit on Biodiversity in September 2020, representing 84 countries from all regions and the European Union, have committed to reversing biodiversity loss by 2030. By doing so, these leaders are sending a united signal to step up global ambition and encourage others to match their collective ambition for nature, climate, and people with the scale of the crisis at hand.

Guyana's statement at the 2020 UN Biodiversity Summit mentions PAs, OECMs or corridors:

Guyana has established protected areas, which aim at promoting sustainable livelihoods, the provision of environmental services, conservation of biodiversity and opportunities for scientific research.

Global Ocean Alliance

Guyana has joined the Global Ocean Alliance: 30by30 initiative.

The Global Ocean Alliance 30by30 is a UK led initiative [currently containing 53 countries as signatories]. Its aim is to protect at least 30% of the global ocean as Marine Protected Areas (MPAs) and Other Effective area-based Conservation Measures (OECMs) by 2030.

Commitments for PAs and OECMs from Other National Policies

Policy document	Ecosystem	Policy text
Nationally Determined Contribution	Forest ecosystems	Strengthen support for Indigenous communities as they continue the stewardship of their lands and inter alia the benefits that accrue from any REDD+ activities from these lands. If they choose to, communities will be supported to better manage their transition to more market-based means of provisioning for their social and cultural well-being in ways that continue the tradition of wise use. Indigenous Peoples themselves, through the full application of the FPIC process, in keeping with the stated policy in the LCDS, will decide whether or not to include their titled lands as part of Guyana's REDD+ programme. Policies will also be implemented to reflect equity between the extractive sector and Indigenous Peoples as the nation moves to genuinely ensure that the fight against climate change continues
Food and Nutrition Security Strategy 2011	Forest ecosystems	Promote greater utilization of minor species and the use of non-timber forest resources
Green State Development Strategy: Vision 2040	Coastal ecosystems	Improving first line sea defences is the primary priority, both through mangrove restoration and the development and reconstruction of the sea wall
Food and Nutrition Security Strategy 2011	Grasslands & Agricultural systems	Ensure that good agricultural practices are utilized by farmers

ANNEX I

FULL LIST OF TERRESTRIAL ECOREGIONS

Ecoregion Name	Area (km²)	% of Global Ecoregion in Country	% of Country in Ecoregion	Area Protected (km²)	% Protected in Country
Amazon-Orinoco- Southern Caribbean mangroves	720.1	1.8	0.3	442.6	61.5
Guianan Highlands moist forests	26,601.0	18.2	12.6	4,155.4	15.6
Guianan lowland moist forests	164,957.7	34.6	78.0	12,908.5	7.8
Guianan piedmont moist forests	124.6	0.1	0.1	0.0	0.0
Guianan savanna	13,604.0	13.0	6.4	73.3	0.5
Orinoco Delta swamp forests	3,885.4	13.9	1.8	200.8	5.2
Pantepui forests & shrublands	1,211.7	2.4	0.6	0.0	0.0
Uatumã-Trombetas moist forests	391.7	0.1	0.2	8.1	2.1

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