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GLOSSARY

AZEs Alliance for Zero Extinction sites
CEPF Critical Ecosystem Partnership Fund

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

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

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

Disclaimer

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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.

The preparation of this dossier was generously supported by: the Government of the Federal Republic of Germany, *Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GMbH*; the European Commission; the Government of the United Kingdom of Great Britain and Northern Ireland; and the Government of Japan (Japan Biodiversity Fund). The dossier does not necessarily reflect their views.

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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

- **Status:** as of May 2021, terrestrial coverage in Malawi is 27,190.4 km² (22.9%).
- **Opportunities for action:** opportunities for the near-term include updating the WDPA with any unreported PAs, and the recognizing and reporting OECMs to the WD-OECM. 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

- **Status:** Malawi contains 8 terrestrial ecoregions: the mean coverage by reported PAs and OECMs is 39.8%; 1 terrestrial ecoregion has no coverage by reported PAs and OECMs (but covers <0.1% of the country).
- **Opportunities for action:** there is opportunity for Malawi to increase protection in terrestrial ecoregions 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:** Malawi has 38 Key Biodiversity Areas (KBAs): the mean protected coverage of KBAs by reported PAs and OECMs is 56.1%, while 14 KBAs have no coverage by reported PAs and OECMs.

• **Opportunities for action:** there is opportunity for Malawi to increase protection of KBAs that have lower levels of coverage by PAs and OECMs; priority could be given to those with no current coverage.

Areas Important for Ecosystem Services

- **Status:** coverage of areas important for ecosystem services: In Malawi, 38.5% of aboveground biomass carbon, 38.2% of belowground biomass carbon and 29.1% of soil organic carbon is covered by PAs and OECMs.
- **Opportunities for action:** for carbon, there is opportunity for Malawi to increase PA and OECM coverage in 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 10.9%.
- **Opportunities for action:** there is opportunity for a targeted increase in connecting 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 Malawi is: 7.5% under Government (5.3% Federal or national ministry or agency; 2.3% Government delegated management).
- **Opportunities for action:** increase efforts to identify the governance types for the 92.5% of sites that do not have their governance type reported. If applicable, explore opportunities for governance types that have lower representation
- There is also opportunity for Malawi 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:** 53.4% of terrestrial PAs have completed Protected Area Management Effectiveness (PAME) assessments reported.
- **Opportunities for action:** the 60% target for completed management effectiveness assessments (per COP Decision X/31) **has not** been met for terrestrial PAs, therefore, there is opportunity to increase protected area management effectiveness (PAME) evaluations to achieve the target.
- There is also opportunity to implement the results of completed PAME evaluations, 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.

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 Malawi. Section I of the dossier presents data on the current status of Malawi'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 Malawi, in relation to each Target 11 element. The analyses present options for improving Malawi's area-based conservation network to achieve enhanced protection and benefits for livelihoods and climate change. Section II presents details on Malawi'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.

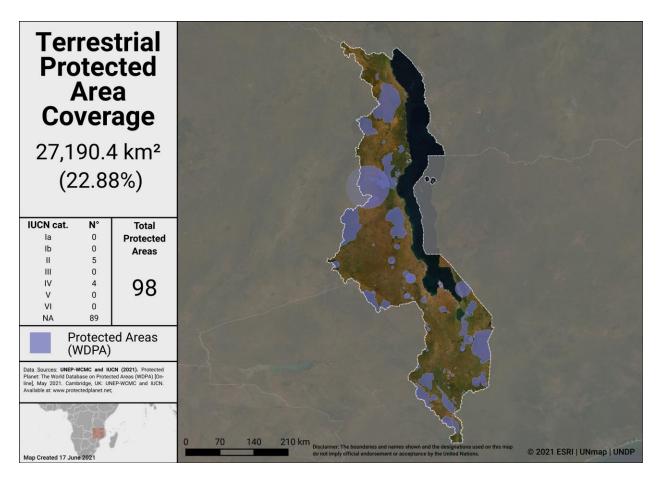
COVERAGE

As of May 2021, Malawi has **133** protected areas reported in the World Database on Protected Areas (WDPA). 31 proposed PAs, an additional 3 PAs have no spatial boundary and no area listed in the WDPA, and 1 further UNESCO-MAB Biosphere Reserve, are not included in the following statistics (see details on UNWP-WCMC's methods for calculating PA and OECM coverage **here**).

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

Current coverage for Malawi:

• 22.9% terrestrial (98 protected areas, 27,190.4 km²)



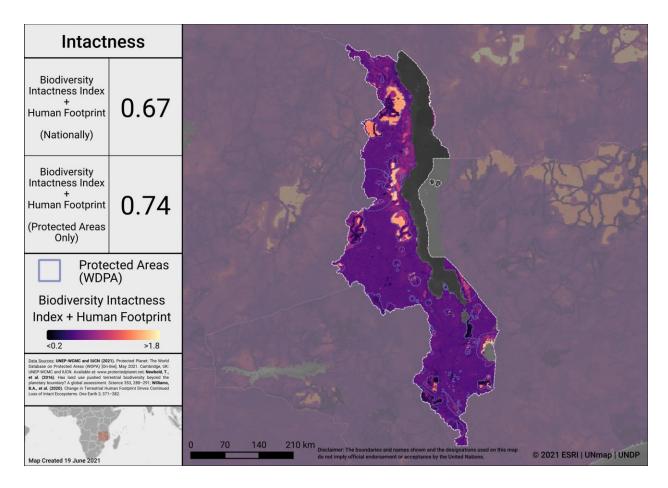
Terrestrial Protected Areas in Malawi

Potential OECMs

There are currently no potential OECM examples for Malawi.

Opportunities for action

Opportunities for the near-term include updating the WDPA with any unreported PAs, and the recognizing and reporting OECMs to the WD-OECM. In the future, as Malawi considers where to add new PAs and OECMs, the map below identifies areas in Malawi where intact areas are not currently protected. Focus on relatively intact areas, while addressing the elements in the following sections, could be considered if planning new PAs or OECMs.



Intactness in Malawi

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

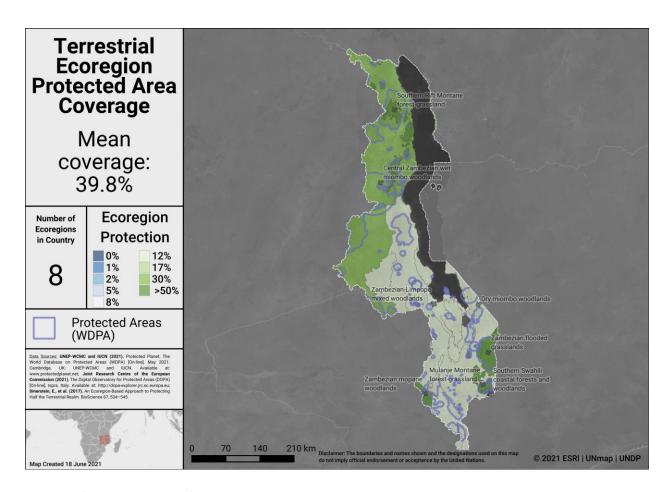
ECOLOGICAL REPRESENTATIVENESS

Ecological representativeness is assessed based on the PAs and OECMs coverage of broad-scale 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).

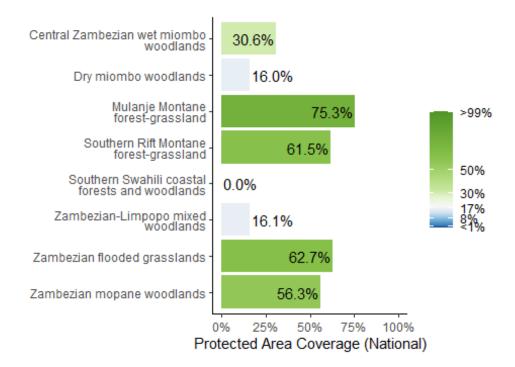
Malawi has 8 terrestrial ecoregions. Out of these:

- 7 ecoregions have at least some coverage from PAs and OECMs.
 - The 1 remaining ecoregion covers <0.1% of the country
- 5 ecoregions have at least 17% protected within the country.
- The average coverage of ecoregions is 39.8%.

A full list of ecoregions in Malawi is available in Annex I.



Terrestrial ecoregions in Malawi



Terrestrial ecoregions of the World (TEOW) in Malawi

Opportunities for action

There is opportunity for Malawi to increase protection in terrestrial ecoregions that have lower levels of coverage by PAs or OECMs.

AREAS IMPORTANT FOR BIODIVERSITY

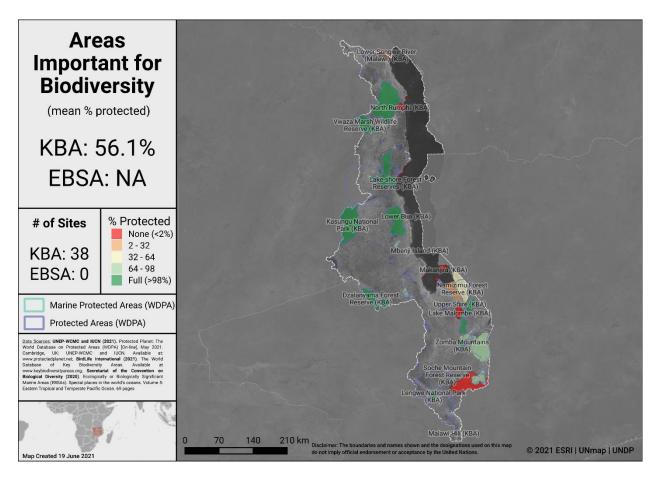
Key Biodiversity Areas (KBAs)

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.

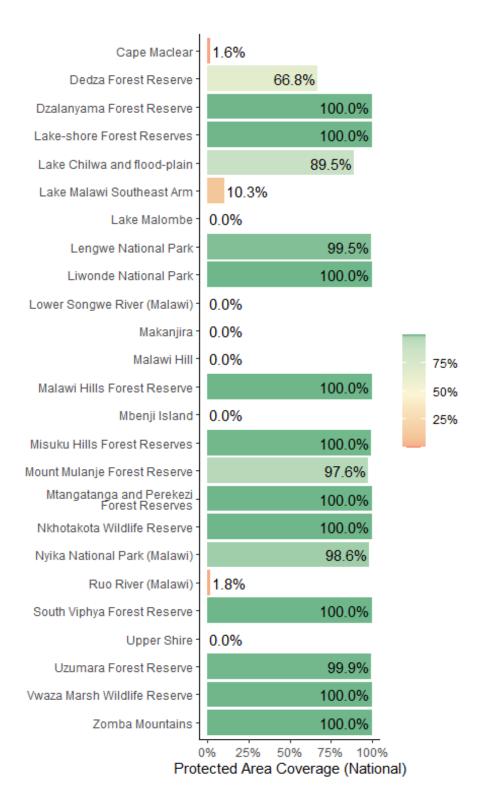
Malawi has 38 Key Biodiversity Areas (KBAs).

- Mean percent coverage of all KBAs by PAs and OECMs in Malawi is **56.1%**.
- **16** KBAs have full (>98%) coverage by PAs and OECMs.
- **8** KBAs have partial coverage by PAs and OECMs.
- **14** KBAs have no (<2%) coverage by PAs and OECMs.

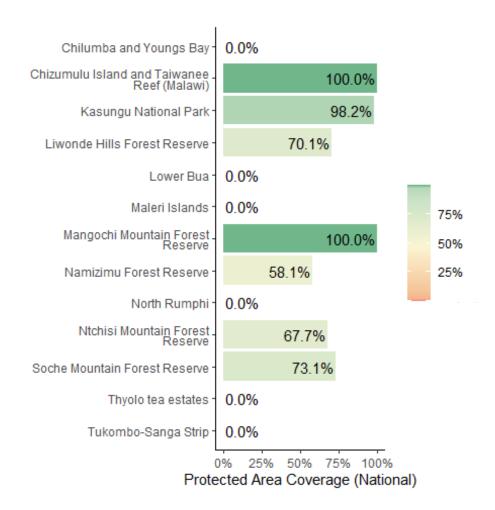
This country has established a Key Biodiversity Area (KBA) National Coordination Group which brings together a wide range of stakeholders, from government agencies, NGOs, academia and wider society. The group oversees and coordinates the identification, delineation, monitoring and promotion of conservation of KBAs, and is currently undertaking a national assessment of KBAs across all taxonomic groups and ecosystems for which data exist, building on the existing network of KBAs in the country.



Areas Important for Biodiversity in Malawi



Key Biodiversity Area Coverage (KBA) in Malawi



Key Biodiversity Area Coverage (KBA) in Malawi

Opportunities for action

There is opportunity for Malawi to increase protection of KBAs that have lower levels of coverage by PAs and OECMs; priority could be given to those with no current coverage.

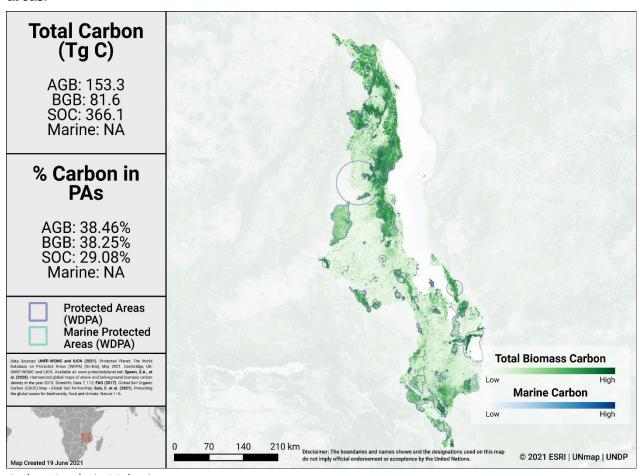
AREAS IMPORTANT FOR ECOSYSTEM SERVICES

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 Malawi and the percent of carbon in protected areas. The total carbon stocks is 153.3 Tg C from aboveground biomass (AGB), with 38.5% in protected areas; 81.6 Tg C from below ground biomass (BGB), with 38.2% in protected areas and 366.1 Tg C from soil organic carbon (SOC), with 29.1% in protected areas.



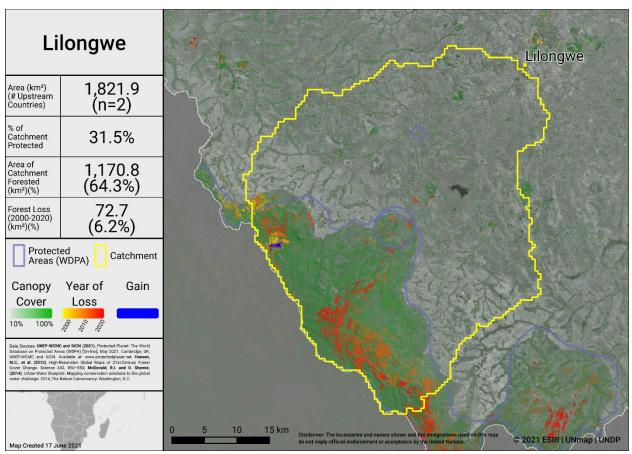
Carbon Stocks in Malawi

Water

Information on the water sources for 534 cities is available via the City Water Map (CWM) and provides details on the catchment area of the watershed that supplies these cities (see McDonald et al., 2014 for details on methodology).

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 Malawi may similarly depend on protected forest areas within and around water catchments. The map below shows the percentage forest and PA cover and the forest loss from 2000-2020 in the most heavily populated water catchment of Malawi. Intact catchments can support more consistent water supply and improved water quality.



Water supply area for the city of Lilongwe

Opportunities for action

For carbon, there is opportunity for Malawi to increase PA and OECM coverage in 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 Malawi was 10.9%.

PARC-Connectedness Index

In 2019, as assessed using the PARC-Connectedness Index (values ranging from 0-1, indicating low to high connectivity), connectivity in Malawi is 0.44. This represents an increase from 0.40 in 2010.

Corridor case studies

There are currently no corridor case studies available for Malawi (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 targeted designation of PAs or OECMs in strategic locations for connectivity 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 Malawi reported in the WDPA have the following governance types:

- 7.5% are governed by governments
 - 5.3% by federal or national ministry or agency
 - 0.0% by sub-national ministry or agency
 - 2.3% by government-delegated management
- 0.0% are under **shared** governance
- 0.0% are under **private** governance
- 0.0% are under **IPLC** governance
 - 0.0% by Indigenous Peoples
 - 0.0% by local communities
- 92.5% **do not** report a governance type

OECMs

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

Privately Protected Areas (PPAs)

There is currently no data available on PPAs for Malawi (see Gloss et al., 2019, and Stolton et al., 2014 for details).

Territories and areas conserved by Indigenous Peoples and local communities (ICCAs)

There is currently no data available on ICCAs for Malawi (see Kothari et al., 2012 and the ICCA Registry for further details).

Other Indigenous lands

There is currently no data available on lands managed and/or controlled by Indigenous Peoples in Malawi (see Garnett et al 2018 for details).

Opportunities for action

Increase efforts to identify the governance types for the 92.5% of sites that do not have their governance type reported. If applicable, explore opportunities for governance types that have lower representation.

There is also opportunity for Malawi 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).

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, Malawi has 133 PAs reported in the WDPA; of these PAs, 19 (14.3%) have management effectiveness evaluations reported in the global database on protected area management effectiveness (GD-PAME).

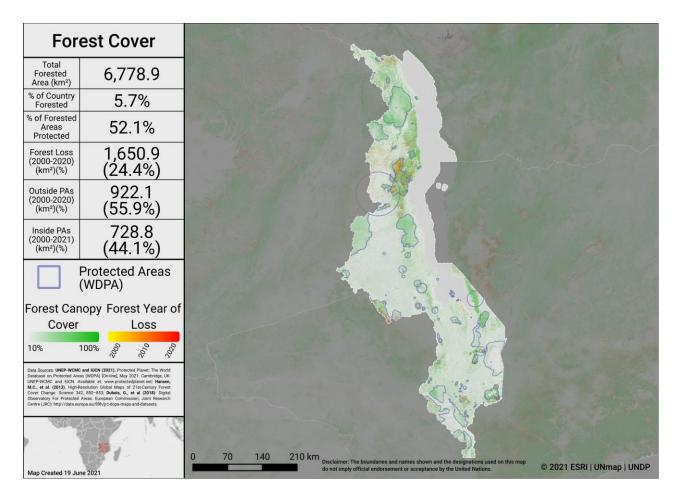
- 12.2% (14,060 km²) of the terrestrial area of the country is covered by PAs with completed management effectiveness evaluations.
 - 53.4% of the area of terrestrial PAs have completed evaluations.

The 60% target for completed management effectiveness assessments (per COP Decision X/31) has not been met for terrestrial PAs.

As of May 2021, there are 0 OECMs in Malawi reported in the WD-OECM and no information available on the management effectiveness of potential OECMs.

Changes in forest cover in protected areas and OECMs

Forested areas in Malawi cover approximately 5.7% of the country, an area of 6,778.9 km². Approximately 52.1% (3,534.3 km²) of this is within the protected area estate of Malawi. Over the period 2000-2020 loss of forest cover amounted to over 1,650.9 km², or 1.4% of the country (24.4% of forest area), of which 728.8 km² (44.1% of forest loss) occurred within protected areas. The map below shows how forest cover has changed in Malawi 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 Malawi

Opportunities for action

The 60% target for completed management effectiveness assessments (per COP Decision X/31) **has not** been met for terrestrial PAs, therefore, there is opportunity to increase protected area management effectiveness (PAME) evaluations to achieve the target.

There is also opportunity to implement the results of completed PAME evaluations, 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.

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 Africa on achieving Aichi Biodiversity Targets 11 and 12 took place 21 - 24 March 2016 in Entebbe, Uganda. 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/

Summary from the workshop:

Priority actions and identified opportunities, if completed as proposed, will provide benefits for the qualifying elements of Aichi Biodiversity Target 11.

The following actions were identified during the workshops:

Terrestrial coverage: Six National Protected Areas that along the Shire River Basin will have been strengthened in management, 1 one wetland that form part of the Important Zambezian Flooded Grasslands Ecoregion will have been developed into a complete community conserved area in the next five years [No area provided].

Ecological representation: 5% protection in coverage will have been reached as selected unique landscape for the 6 terrestrial protected areas: Liwonde –Mangochi-Namizimu Landscape, Lengwe-Mwabvi-Matandwe with the Elephant Marsh Wetland as a community conserved area to improve ecological representation.

Areas Important for biodiversity and ecosystem services: 2 IBAs- Namizimu FR and Liwonde Hills FR under SRBMP (GEF5 and 6),1 AZE-Mount Mulanje FR under MMCT and 4 other areas importance for biodiversity identified during GEF 5 (SRBMP) Biodiversity surveys will be protected under SRBMP (GEF6).

Connectivity:

- 1) 2 corridors will be created to develop complete and spatial connectivity one for Liwonde NP-Mangochi FR-Namizimu FR and another for Lengwe NP-Mwabvi WR-Matandwe with the Elephant Marsh Wetland as stepping-stone to be managed by Communities.
- 2) Government will mainstream sectors responsible for management of wildlife, forestry, water and fisheries to manage PAs whose corridors have been created and integrated into one ecological corridor.

Management effectiveness:

- 1) Implement the results of PAME Tracking Scores done for assessments for 6 PAs under GEF 5 and continue until project end
- 2) A further assessment for PAME will be undertaken in another 20% of PAs both area and number and will implement the results for integrating 6 PAs out of the total number of PAs along the Shire Basin.

Governance and Equity: Develop National Guidelines for the assessment of Benefit sharing arrangement to implement the requirements of CBD equitable access for protected areas.

Integration into the wider landscape: No actions were identified for this element of Target 11.

OECMs:

- 1) A REDD+ Programme will be rolled out to 10% of protected areas that have heavy presence of communities in along the Shire River Basin
- 2) A resource mobilization plan will be developed, and donor support will be sort for the implementation of the Malawi's NBSAP.

NATIONAL BIODIVERSITY STRATEGY AND ACTION PLANS (NBSAPs)

Malawi 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 address elements of Aichi Biodiversity Target 11:

NBSAP Action number	Action (original language from NBSAP)
6.d.a	Develop and implement programmes to protect habitats of high species diversity
12.b	Increase connectivity between protected areas and wildlife home ranges both locally and internationally
12.f	Identify and characterize biodiversity hotspots
12.g	Ensure that current protected areas with special designations actively seek and are able to access funds available through these designations
12.h	Develop a national plan for implementation of PoWPA

APPROVED GEF-5 & GEF-6 PROTECTED AREA PROJECTS

Approved GEF-5 and GEF-6 PA-related biodiversity projects

This includes biodiversity projects from the fifth and sixth replenishment of the Global Environment Facility (GEF-5 and GEF-6) with a clear impact of the quantity or quality of PAs; also including some projects occurring within the wider landscapes/seascapes around PAs. Only those with a status of 'project approved' or 'concept approved' as of June 2019 were considered. The qualifying elements likely benefiting from each GEF project is assessed based on a keyword search of Project Identification Forms (PIF). Where spatial data for the proposed PAs was available, further details (based on an analysis by UNDP) regarding their impacts for ecological representation, coverage of KBAs, and coverage of areas important for carbon storage is included.

GEF ID	PA increase?	Area to be added (km²)	Qualitative elements potentially benefitting (based on keyword search of PIFs)
4625	No	N/A	Ecosystem services; Effectively managed; Equitably managed; Integration
9539	No	N/A	Effectively managed; Integration
9842	No	N/A	All Qualitative Elements

OTHER ACTIONS/COMMITMENTS

Commitments for PAs and OECMs from Other National Policies

Policy document	Ecosystem	Policy text
Nationally Determined Contribution	Forest ecosystems	Avoided forest conversion: 3.15 Mt CO2e/yr
Nationally Determined Contribution	Wetland ecosystems	Avoided peat impacts: .18 Mt CO2e/yr
Nationally Determined Contribution	Forest ecosystems	Promote sustainable production of fuel wood by establishing woodlots plantations and forest management
Nationally Determined Contribution	Forest ecosystems	Distribute energy saving cook stoves to 400 000 households
Nationally Determined Contribution	Forest ecosystems	Increase the number of households adopting energy saving stoves to 2,000,000 by 2030
Nationally Determined Contribution	Forest ecosystems	Promote an energy mix that moves people away from use of biomass
Nationally Determined Contribution	Wetland ecosystems	Promote water harvesting technologies at all levels
Nationally Determined Contribution	Grasslands & Agricultural systems	Implement integrated catchment conservation and management programme
National Energy Policy	Forest ecosystems	The use of efficient charcoal carbonization technologies
National Energy Policy	Forest ecosystems	The use of non-Indigenous wood for charcoal production from sustainable sources
National Resilience Strategy	Forest ecosystems	Rural electrification scaled up
Malawi National Agriculture Policy	Wetland ecosystems	Promote development of efficient and sustainable water-user and water catchment management associations in irrigation schemes/project areas
National Wetlands Policy	Wetland ecosystems	Identifying, delineating and protecting water resources conservation areas
National Wetlands Policy	Wetland ecosystems	Promoting water conservation and catchment protection for sustainable development

Policy document	Ecosystem	Policy text
Malawi Growth and Development Strategy	Wetland ecosystems	Improving efficient sustainable use of water in irrigation schemes
Malawi National Agriculture Policy	Grasslands & Agricultural systems	Support programs mitigating land degradation, such as catchment area protection and appropriate farming practices
Malawi National Agriculture Policy	Grasslands & Agricultural systems	Promote introduction of nitrogen-fixing plants, such as legumes, and agroforestry technologies and systems in crop farming systems
Malawi National Agriculture Policy	Grasslands & Agricultural systems	Promote conservation agriculture
Reducing emissions from deforestation and forest degradation	Forest ecosystems	Lowering rates of deforestation
Reducing emissions from deforestation and forest degradation	Forest ecosystems	Lowering rates of forest degradation from unsustainable fuelwood harvesting
National Forest Landscape Restoration Strategy	Forest ecosystems	Improve protection and management of 1 million ha of natural forests and plantations by 2020 and 2 million ha by 2030
National Biodiversity Strategy Action Plan	Forest ecosystems	Develop and implement community- based programmes on conservation and sustainable use of forest biodiversity
National Biodiversity Strategy Action Plan	Forest ecosystems	Promote alternative energy sources to fuel wood and charcoal

ANNEX I

FULL LIST OF ECOREGIONS

Ecoregion Name	Area (km²)	% of Global Ecoregion in Country	% of Country in Ecoregion	Area Protected (km²)	% Protected in Country
Central Zambezian wet miombo woodlands	37,573.2	3.7	31.7	11,512.2	30.6
Dry miombo woodlands	34,046.5	2.9	28.7	5,443.2	16.0
Mulanje Montane forest-grassland	939.0	99.9	0.8	706.7	75.3
Southern Rift Montane forest- grassland	3,051.6	13.7	2.6	1,876.8	61.5
Southern Swahili coastal forests and woodlands	37.8	0.0	0.0	0.0	0.0
Zambezian flooded grasslands	3,181.4	1.6	2.7	1,993.9	62.7
Zambezian- Limpopo mixed woodlands	16,062.7	8.8	13.6	2,586.6	16.1
Zambezian mopane woodlands	915.2	0.2	0.8	515.1	56.3

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