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FOREWORD

By CBD Executive Secretary and IUCN Director General.
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For more information on the Task Force, including all outputs and case studies, please see: www.iucn.org/theme/protected-areas/wcpa/what-we-do/oecms
EXECUTIVE SUMMARY

In November 2018, Parties to the Convention on Biological Diversity (CBD) adopted at the 14th Conference of the Parties a definition of an “other effective area-based conservation measure” (OECM) as well as guiding principles, common characteristics and criteria for identification of OECMs (CBD/COP/DEC/14/8). Decision 14/8 defines an OECM as:

A geographically defined area other than a Protected Area, which is governed and managed in ways that achieve positive and sustained long-term outcomes for the in situ conservation of biodiversity with associated ecosystem functions and services and where applicable, cultural, spiritual, socio-economic, and other locally relevant values.

OECMs offer a significant opportunity to recognise de facto conservation that is taking place outside currently designated protected areas and implemented by a diverse set of actors, including by governments, the private sector, Indigenous peoples and local communities. OECMs can contribute to ecologically representative and well-connected conservation systems, integrated within wider landscapes and seascapes, and in doing so, generate a range of positive conservation outcomes, such as:

- Conserving important ecosystems, habitats and wildlife corridors;
- Supporting the recovery of threatened species;
- Maintaining ecosystem functions and securing ecosystem services;
- Enhancing resilience against threats; and
- Retaining and connecting remnants of fragmented ecosystems within developed landscapes.

The WCPA Task Force on OECMs has produced this Technical Report to assist Parties in interpreting and operationalising Decision 14/8 and to start to develop a body of good practice around recognising and reporting OECMs. It is designed for application at various scales, ranging from understanding whether an individual area is an OECM to reporting OECM statistics at the national and global level as a means to assess progress on achieving conservation targets.

Part 1 provides the background to the term ‘other effective area-based conservation measures’ and an overview of the process that led to CBD Decision 14/8. Part 2 sets out the definition of an OECM and provides clear explanations of each element of the definition and criteria. Part 3 sets out a screening tool that can be used to identify ‘candidate OECMs’ and provides an indicative list of examples of potential OECMs as well as of areas unlikely to meet the criteria. Part 4 elaborates the processes relevant to monitoring and reporting OECMs, with a focus on the World Database of Protected Areas managed by UNEP World Conservation Monitoring Centre.
### ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>CBD</td>
<td>Convention on Biological Diversity</td>
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<tr>
<td>COP</td>
<td>Conference of the Parties to the CBD</td>
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<tr>
<td>EBSA</td>
<td>Ecologically or Biologically Significant Marine Area</td>
</tr>
<tr>
<td>IBA</td>
<td>Important Bird Area</td>
</tr>
<tr>
<td>ICCA</td>
<td>Territories and Areas Conserved by Indigenous Peoples and Local Communities</td>
</tr>
<tr>
<td>IMMA</td>
<td>Important Marine Mammal Area</td>
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<tr>
<td>IPA</td>
<td>Important Plant Area</td>
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<tr>
<td>IUCN</td>
<td>International Union for Conservation of Nature and Natural Resources</td>
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<td>KBA</td>
<td>Key Biodiversity Area</td>
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<td>LMMA</td>
<td>Locally Managed Marine Area</td>
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<tr>
<td>OECM</td>
<td>Other Effective Area-based Conservation Measure</td>
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<td>PAME</td>
<td>Protected areas management effectiveness</td>
</tr>
<tr>
<td>SBSTTA</td>
<td>Subsidiary Body on Scientific, Technical and Technological Advice of the CBD</td>
</tr>
<tr>
<td>SDGs</td>
<td>UN Sustainable Development Goals</td>
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<tr>
<td>UN</td>
<td>United Nations</td>
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<td>UNEP</td>
<td>United Nations Environment Programme</td>
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<td>UNEP-WCMC</td>
<td>UN Environment World Conservation Monitoring Centre</td>
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<td>WCC</td>
<td>IUCN World Conservation Congress</td>
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<td>WCPA</td>
<td>IUCN World Commission on Protected Areas</td>
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<tr>
<td>WDPA</td>
<td>World Database on Protected Areas</td>
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1. INTRODUCTION

Background

The Strategic Plan for Biodiversity 2011–2020 is a framework for the effective implementation of the Convention on Biological Diversity (CBD) through a strategic approach, comprising a shared vision, a mission, and strategic goals and targets (“Aichi Biodiversity Targets”), which have inspired broad-based action by all Parties and stakeholders. Target 11, under Strategic Goal C, aims to improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity. It states:

By 2020, at least 17 per cent of terrestrial and inland water areas 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 (emphasis added).

Protected areas provide the foundation of national biodiversity conservation strategies and delivery of Target 11 (Watson, et al., 2014). IUCN has provided guidance on the definition, management categories and governance types of protected areas (Dudley, 2008; Borrini-Feyerabend, et al., 2013). Parties to the CBD included “other effective area-based conservation measures” (OECMs) in Target 11 because some areas outside the recognised protected area networks also result in the effective in-situ conservation of biodiversity. These can include territories and conserved areas governed by any of four governance types, i.e., by governments, private actors, Indigenous Peoples and local communities, and shared governance arrangements. Regardless of achievements under Target 11 by 2020, it is expected that both protected areas and OECMs will be part of any post-2020 targets to conserve biodiversity in situ and OECMs will become a more commonly used tool in conservation strategies.

Since 2010, Parties to the CBD have made substantial progress on expanding protected area systems, including declaration of many very large marine protected areas (UNEP-WCMC and IUCN 2016, 2018). There has been slower progress in defining, identifying, recognising and reporting OECMs (Jonas, et al., 2014). The International Union for the Conservation of Nature (IUCN) and the IUCN World Commission on Protected Areas (WCPA) were invited by the Parties to the CBD to “develop technical guidance to achieve the full scope of Aichi Biodiversity Target 11” (CBD COP Decision XII/24). In 2015, WCPA established a Task Force to develop technical guidance on OECMs. Draft Guidelines prepared by the Task Force were provided to the CBD Secretariat and shared with CBD Parties, discussed at two workshops convened by the CBD (February 2018) and presented in side events at meetings of the CBD’s Subsidiary Body on Scientific, Technical and Technological Advice (2016–2018). More information on the process of developing the Guidelines is available in a Special Issue of PARKS journal on OECMs (Jonas, et al., 2018).
At the 14th Conference of the Parties to the CBD (COP 14) in November 2018, Parties adopted a decision on “Protected areas and other effective area-based conservation measures” (CBD/COP/DEC/14/8, https://www.cbd.int/doc/decisions/cop-14/cop-14-dec-08-en.pdf). This decision adopted a definition for “other effective area-based conservation measures” and criteria for their identification and management.

Decision 14/8, in paragraph 9, further invited the IUCN and other expert bodies to continue to assist Parties in identifying OECMs and in applying the scientific and technical advice on criteria for their identification.

Development of the Technical Report

These Guidelines have been prepared by the WCPA Task Force on Other Effective Area-based Conservation Measures in response to the request by COP 14 to assist Parties in operationalising Decision 14/8. They are designed for application at various scales, ranging from understanding whether an individual area is an OECM to reporting OECM statistics at the national and global level as a means to assess progress on achieving conservation targets. The development of these Guidelines took advantage of work done by the Canadian Council on Ecological Areas to develop guidance on other effective area-based conservation measures (MacKinnon, et al., 2015) and is complemented by work on the relationship between Key Biodiversity Areas (KBAs) (IUCN, 2016), protected areas and OECMs led by BirdLife International and partners (Donald, et al., 2019).

The primary audiences for these Guidelines are Parties to the CBD, government agencies, United Nations (UN) agencies, non-governmental organisations (NGOs), private organisations, Indigenous Peoples’ organisations, local communities and other interested organisations, agencies and individuals involved in understanding, applying, and tracking progress towards achieving Aichi Target 11 and other conservation targets. OECMs will also contribute directly and indirectly towards achievement of several of the UN’s Sustainable Development Goals (SDGs). Implementation will further inform the CBD process to develop a post-2020 Biodiversity Framework and achievement of the SDGs, particularly in the context of emerging landscape and seascape approaches to conservation (CBD, 2019). These Guidelines apply across the entire terrestrial, freshwater and marine realms. As such they should inform other processes, including the discussions on a legally binding treaty to implement marine protected areas on the High Seas.

What these Guidelines contain

These Guidelines provide information on how to apply the definition of OECMs at international, national, sub-national or local conservation levels and to report on OECMs to the World Database on Protected Areas and to the CBD. It explains the definition of “other effective area-based conservation measures”, along with tools and approaches recommended for identification, recognition, monitoring and reporting. Further sections look at the relationship with other Aichi Biodiversity Targets, the differences between protected areas and OECMs, and how to report to
the World Database on Protected Areas (WDPA). Reflecting Decision 14/8, these Guidelines show how OECMs are applied within a framework of existing principles set out by the CBD, IUCN and partners, with respect to biodiversity conservation, human rights and sustainable development.

By delivering effective, *in-situ* conservation of biodiversity, OECMs can contribute to sustaining existing biodiversity values and improving biodiversity conservation outcomes, e.g., by conserving important ecosystems, habitats and wildlife corridors, supporting the recovery of threatened species, maintaining ecosystem functions and securing ecosystem services, enhancing resilience to threats, and retaining and connecting remnants of fragmented ecosystems in degraded landscapes. OECMs can also contribute to ecologically representative and well-connected conservation networks, integrated within wider landscapes and seascapes.

Identification of OECMs and recognition of their governance and management structures provides an opportunity to engage and support a range of new partners in global conservation efforts. In some contexts, this is enabling dialogue about and promoting reconciliation through the appropriate recognition of “Indigenous protected and conserved areas” (Indigenous Circle of Experts, 2018). Recognition as an OECM may also provide additional incentives for conservation and sustainable management of areas of biodiversity significance outside protected areas, such as Key Biodiversity Areas (KBAs), Important Plant Areas (IPAs), Important Bird Areas (IBAs), Important Marine Mammal Areas (IMMAs), and Ecologically or Biologically Significant Marine Areas (EBSAs), noting that such areas must meet the definition of an OECM to be included. The application of these Guidelines may also contribute towards enhancing the governance or management of candidate OECMs.
2. DEFINITION AND CHARACTERISTICS

This section sets out the definition of an “other effective area-based conservation measure” and provides guidance on each element of the definition.

2.1 DEFINITION OF “OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURE”

An “other effective area-based conservation measure” (OECM) is defined by the CBD in Decision 14/8 as:

*A geographically defined area other than a Protected Area, which is governed and managed in ways that achieve positive and sustained long-term outcomes for the in situ conservation of biodiversity with associated ecosystem functions and services and where applicable, cultural, spiritual, socio-economic, and other locally relevant values. (CBD 2018).*

The definition of an OECM complements the IUCN definition of a protected area (Dudley, 2008). IUCN defines a protected area as:

*A clearly defined geographical space, recognised, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values.*

The distinguishing criterion is that a protected area has a primary conservation objective, whereas an “other effective area-based conservation measure” delivers the effective in-situ conservation of biodiversity, regardless of its objectives.

There are several reasons why areas that deliver important in-situ conservation outcomes may not be recognised and reported as protected areas (Borini-Feyerabend and Hill, 2015) whereas such areas may be recognised through appropriate consent processes as OECMs—see Box 1. Although both protected areas and OECMs contribute towards achievement of Aichi Target 11, they have a number of other important differences.

**Box 1: Identifying or establishing other effective area-based conservation measures**

Protected areas and OECMs are both expected to result in the long-term and effective in-situ conservation of biodiversity. However, whereas protected areas have nature conservation as the primary management objective, OECMs may or may not have nature conservation as an objective.

**Types of approaches that deliver effective conservation in other effective area-based conservation measures**

1. “Primary conservation”—refers to areas that may meet all elements of the IUCN definition of a protected area, but which are not officially designated as such because the governance authority does not want the area to be recognised or reported as a protected area. For example, in some instances Indigenous Peoples...
and local communities may not want areas of high biodiversity value that they
govern to be designated as protected areas or recorded in government protected
area databases. Assuming an area meets the OECM criteria, the governance
authority has the right to withhold or give its consent to the area being recognised
as an OECM.

2. “Secondary conservation”—is achieved through the active management of an area
where biodiversity outcomes are a secondary management objective. For example,
enduring watershed protection policies and management may result in effective
protection of biodiversity in watersheds, even though the areas may be managed
primarily for objectives other than conservation. Sites managed to provide
ecological connectivity between protected areas or other areas of high biodiversity,
thereby contributing to their viability, may also qualify as OECMs.

3. “Ancillary conservation”—refers to areas that deliver in-situ conservation as a by-
product of management activities, even though biodiversity conservation is not a
management objective. For example, Scapa Flow in the Orkney Islands protects
shipwrecks and war graves. This protection has led to the ancillary conservation of
important biodiversity (see Box 3).

Unrecognised and unreported areas that meet the definition of a protected area

*IUCN recommends that areas that meet all elements of the IUCN definition of a protected
area, and are recognised as such by the governance authority, be considered protected areas
rather than OECMs* (see Figure 1 and Section 4). For example, some privately protected
areas are not reported as protected areas by national governments, even though they may
satisfy the IUCN criteria.

Other intact natural areas

All of the above cases must be distinguished from other intact natural areas that are not
subject to any deliberate form of conservation management but nevertheless currently
harbour intact biodiversity, for example because of their remoteness or due to situations of
conflict. These areas are considered to be neither OECMs nor protected areas since such
sites may have little long-term security if conditions change, or if they are opened up to
environmentally-damaging activities.

The relationship between OECMs and protected areas is illustrated in Figure 1,
below.
Figure 1. The relationship between OECMs and protected areas (Note: sizes of segments are illustrative only and not based on actual data).

2.2 ELEMENTS OF THE DEFINITION

The following sub-sections elaborate each element of the overall definition of an “other effective area-based conservation measure”:

A geographically defined area other than a Protected Area, which is governed and managed in ways that achieve positive and sustained long-term outcomes for the in situ conservation of biodiversity, with associated ecosystem functions and services and where applicable, cultural, spiritual, socio-economic, and other locally relevant values.

The elements are presented according to the four criteria, as per Decision 14/8.

Criterion A: Area is not currently recognized as a protected area

a. “other than a Protected Area”

OECMs can contribute in their own right to area-based targets for terrestrial, freshwater and marine conservation. This means that areas that are already designated as protected areas or lie within protected areas should not also be recognised or reported as OECMs. While protected areas and OECMs are mutually exclusive at any point in time, both protected areas and OECMs have value for biodiversity conservation. Some OECMs may become recognised as protected areas
if, for example, nature conservation becomes the primary management objective, or where the area already meets the definition of a protected area and the governing authority now requests its recognition.

**Criterion B: Area is governed and managed**

b. “*geographically defined area*”

*Geographically defined area* implies a spatially delineated area with agreed and demarcated boundaries, which can include land, inland waters, marine and coastal areas or any combination of these. In exceptional circumstances, boundaries may be defined by physical features that move over time, such as river banks, the high water mark or extent of sea ice—see Box 2.

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**Box 2: A closer look at geographical space**

Geographical space has three dimensions; this requires any governance or management regime for a two-dimensional area also to account for the third (vertical) dimension if all the biodiversity of the area is to be effectively conserved *in-situ*. Designations of protected areas or OECMs will often have limits in the third dimension (e.g. only apply to a certain depth underground or below the water surface, or have an altitude limit to allow passage of commercial aircraft). This has become particularly controversial in marine protected areas, where vertical zoning for commercial purposes undermines conservation outcomes, disrupts ecological connectivity, and creates monitoring and enforcement challenges. For both protected areas and OECMs, the height and depth dimensions need to be consistent with effective conservation management to protect the full range of native biodiversity. In consequence, IUCN has a strong presumption against vertical zoning of OECMs.

While the size of OECMs may vary, they should be of sufficient size to achieve the long-term *in-situ* conservation of biodiversity, including all ecosystems, habitats and species communities for which the site is important. “Sufficient size” is highly contextual and is dependent on the ecological requirements for the persistence of the relevant species and ecosystems.

c. “*governed*”

*Governed* implies that the area is under the authority of a specified entity, or an agreed upon combination of entities. OECMs can be governed under the same range of governance types as protected areas, namely:

1. Governance by governments (at various levels);
2. Governance by private individuals, organisations or companies;
3. Governance by Indigenous Peoples and/or local communities; and
4. Shared governance (i.e., governance by various rights holders and stakeholders together) (Dudley, 2008; Borrini-Feyerabend, et al., 2013).

As with protected areas, the governance of OECMs should be equitable and reflect human rights principles recognised in international and regional human rights instruments and in national legislation, including relating to gender equity and
Indigenous Peoples. Governance mechanisms should be effective in maintaining biodiversity. Any recognition or reporting of OECMs governed by Indigenous Peoples and/or local communities should be based on self-identification and requires the free, prior and informed consent of those traditional governance authority(ies) (United Nations, 2007).

d. “managed”

**Managed** specifies that the area is being managed in a way that achieves positive and sustained long-term biodiversity conservation outcomes. Relevant authorities, rightsholders and stakeholder should be identified and involved in management.

Unlike protected areas, OECMs do not require a primary objective of conservation, but there must be a direct causal link between the area’s overall objective and management and the *in-situ* conservation of biodiversity over the long-term. “Managed” can include a deliberate decision to leave the area untouched - see the example of historic ship wrecks explained in Box 3.

Management of OECMs should be consistent with the ecosystem approach, with the ability to adapt to achieve expected long-term biodiversity conservation outcomes and to manage emerging new threats (https://www.cbd.int/ecosystem/). Accordingly, the management of OECMs should include “effective means” of control of activities that could impact biodiversity, whether through legal measures or other effective means (such as customary laws or binding agreements with the landowners). To the extent relevant and possible, management should be integrated across OECMs and integrated with surrounding areas.

An area where there is no management regime is not an OECM, even though its biodiversity may remain intact. For example, unmanaged areas of the high seas, areas under military conflict, and other areas currently in a natural or near-natural state should not be considered as OECMs in the absence of a management regime that provides effective and enduring *in-situ* biodiversity conservation. Management regimes can include deliberate decisions to leave the area untouched.

**Box 3: Historic wreck sites e.g. Scapa Flow—an example of Ancillary Conservation**

Strict protection of historic wreck sites for cultural and historical reasons is a common feature in many ocean basins around the world. This purpose coincidentally provides protection of associated marine habitats, species and ecosystems. There are extensive examples in the Caribbean and Pacific Ocean as a legacy of historical conflicts across the ages. In the UK, Scapa Flow is perhaps the best-known example of where such “ancillary conservation” is achieved.

Scapa Flow is a natural harbour off mainland Orkney in the North of Scotland. The area is under the jurisdiction of the Orkney Islands Harbour Authority whose management objectives for the area are the safe management of the harbour whilst at the same time conserving the site’s cultural heritage. The area is known for the wrecks of First World War German warships that were scuttled within the Harbour and that of the Royal Oak, the
Second World War flagship of the Royal Navy, which was sunk by a German U-Boat and is a designated war grave.

Scapa Flow covers an area of 324.5 km$^2$ and contains in the order of 1 billion cubic metres of water. The strict protection afforded to its historical wrecks also coincidentally provide a high degree of protection to the benthic ecosystem, evidenced by thriving maerl beds, flame shell beds, horse mussel reefs and fan shells which are very rare elsewhere in Scotland. Although the area is not managed with a specific objective of nature conservation, protection of the site’s biodiversity is achieved through ancillary conservation. In February 2019, Scotland's First Minister, Nicola Sturgeon, announced a consultation on two new “historic” MPAs in Scotland, one of which is Scapa Flow. If approved this would demonstrate the close relationship between OECMs and protected areas.

Criterion C: Achieves sustained and effective contribution to in situ conservation of biodiversity

e. “positive outcomes” for biodiversity conservation (termed “effective” in the criteria of CBD decision 14/8)

OECMs should be effective at delivering positive and sustained outcomes for the in-situ conservation of biodiversity. Specifically, there should be a clear association between the management and biodiversity outcomes, with mechanisms in place to address existing or anticipated threats (see Mathur, et al., 2017 for guidance on identifying and managing threats).

Environmentally-damaging industrial activities and infrastructure development should not occur in OECMs. This is consistent with IUCN Recommendation 102 (WCC-2016-Rec-102-EN), adopted at the World Conservation Congress 2016 in Hawai‘i. This recommendation calls on governments and relevant authorities “to adopt and implement policies that restrict environmentally-damaging industrial activities and infrastructure development that may have negative impacts on any areas of particular importance for biodiversity and ecosystem services that are identified by governments as essential to achieving the Aichi Biodiversity Targets”. Environmentally-damaging industrial activities include, for example, industrial fishing and forestry, mining, oil and gas extraction, industrial agriculture, and environmentally-damaging infrastructure, such as dams, roads and pipelines. These threats should be avoided. This applies both to environmentally-damaging activities inside OECMs and also to those outside the area but impacting on the OECMs.

f. “sustained long-term”

The governance and management of OECMs is expected to be sustained and deliver the long-term effective in-situ conservation of biodiversity. Short-term or temporary management strategies do not constitute an OECM. For example, a commercial fishing closure that stays in place only until an overfished area recovers, is not an OECM. IUCN’s guidance is that the factors that govern and manage an OECM should be expected to be ongoing and for the long-term.
Effective conservation outcomes may arise from strict protection or certain forms of sustainable management consistent with the CBD definitions of “in-situ conservation” and “biodiversity”. However, most areas managed for industrial production, even if they have some biodiversity benefits, should not be considered as OECMs. Sustainably-managed commercial fisheries and commercial forests, for instance, should be reported under Aichi Targets 6 and 7, respectively, or other appropriate targets.

On the other hand, sites with a range of management approaches, including seasonal arrangements (e.g. sites managed for migratory bird species) may qualify as OECMs if the seasonal measures are part of a long-term overall management regime that results in the year-round in-situ conservation of biodiversity for which the site is important. In some cases short-term regulatory instruments, renewed continuously, may provide de facto long-term measures.

Management of OECMs should be consistent with an ecosystem and precautionary approach, with the ability to adapt to maintain biodiversity outcomes in the long-term and to address potential new threats. Practical steps should be in place for monitoring and reporting on the effectiveness of OECMs (see Section 4).

g. “in-situ conservation of biodiversity”

The CBD defines in-situ conservation, with respect to biodiversity, as:

The conservation of ecosystems and natural habitats and the maintenance and recovery of viable populations of species in their natural surroundings and, in the case of domesticated or cultivated species, in the surroundings where they have developed their distinctive properties. (CBD Article 2).

Other effective area-based conservation measures should deliver biodiversity outcomes of comparable importance to, and complementary with, those of protected areas. This includes their contribution to ecological representation, coverage of areas important for biodiversity and associated ecosystem functions and services, connectivity and integration in wider landscapes and seascapes, as well as management effectiveness and equity requirements.

OECMs are expected to achieve the conservation of nature as a whole, rather than only selected elements of biodiversity. The CBD definitions of “biodiversity” and “in-situ conservation” clearly recognise that a single species can only exist in-situ as part of an interconnected web with other species and the abiotic environment. Therefore conservation measures targeting single species or subsets of biodiversity should not allow the broader ecosystem to be compromised. Recognising the linkage between biological and geological diversity, “geodiversity” may also be an important management focus in OECMs (Zarnetske, et al., 2019).

h. “biodiversity”
Given the explicit link between OECMs and **biodiversity conservation outcomes**, it is a clear requirement that OECMs must achieve the effective and sustained *in-situ* conservation of biodiversity. While approaches for identifying the important biodiversity elements of such areas vary according to national, subnational, and local circumstances, global guidance now exists for identifying Key Biodiversity Areas (IUCN, 2016) and for describing areas such as Ramsar Sites and Ecologically and Biologically Significant Marine Areas (Dunstan, 2016). The biodiversity conserved by an OECM can occur in areas within and beyond national jurisdiction.

Recognition of an OECM should include the identification of the range of biodiversity attributes for which the site is considered important and be based upon the best available knowledge—see Box 4. These key biodiversity values, as well as the broader conservation values of OECMs, should be described and tracked over time.

### Box 4: A closer look at biodiversity

OECMs should effectively protect one or more of the following elements of native biodiversity:

- Rare, threatened or endangered species and habitats, and the ecosystems that support them, including species and sites identified on the IUCN Red List of Threatened Species, Red List of Ecosystems, or national equivalents.
- Representative natural ecosystems.
- Areas with a high level of ecological integrity or ecological intactness, which is characterised by the occurrence of the full range of native species and supporting ecological processes. These areas will be intact or being restored under the proposed management regime.
- Range-restricted species and ecosystems in natural settings.
- Important species aggregations, including during migration or spawning.
- Ecosystems especially important for species life stages, feeding, resting, moulting and breeding.
- Areas of importance for ecological connectivity or that are important to complete a conservation network within a landscape or seascape.
- Areas that provide critical ecosystem services, such as clean water and carbon storage, in addition to *in-situ* biodiversity conservation.
- Species and habitats that are important for traditional human uses, such as native medicinal plants, in addition to *in-situ* biodiversity conservation.

In this context, an intensively-managed farm with a small proportion of the original native plants and birds will likely not be an OECM. Conversely, an area of native grassland, dominated by native plants, and having healthy populations of a large variety of native birds and mammals, might well be an OECM if a lower-intensity management and governance regime ensures these outcomes over the long-term. Just as for protected areas, there may be instances where an OECM is especially important for protecting a particular threatened species by protecting the entire ecosystem.

As climate change alters ecosystems, understanding of what is natural and effective in a particular place may also change. OECMs may need to be recognised and managed with adaptation to climate change in mind (Gross, et al., 2016).
Criterion D: Associated ecosystem functions and services and cultural, spiritual, socio-economic and other locally relevant values

i. “ecosystem functions and services”

Healthy and functioning ecosystems provide a range of services. Ecosystem functions are an integral part of biodiversity, and are defined as the biological, geochemical and physical processes that take place or occur within an ecosystem. Ecosystem services include provisioning services such as food and water; regulating services such as regulation of floods, drought, land degradation and disease; and supporting services such as soil formation and nutrient recycling. Protection of these ecosystem functions and services may be a frequent rationale for the recognition of OECMs. However, management to enhance one particular ecosystem service should not impact negatively on the site’s overall biodiversity conservation values.

j. “cultural, spiritual, socio-economic, and other locally relevant values”

OECMs include areas where the protection of key species and habitats and management of biodiversity may be achieved as part of cultural, spiritual socio-economic and other locally relevant values and practices. In such cases, it will be essential to ensure the recognition and protection of the linkages between biological and cultural diversity and associated governance and management practices that lead to positive biodiversity outcomes, such as customary sustainable uses of biodiversity (CBD Article 10(c)). Conversely, management for cultural, spiritual socio-economic or other locally relevant values within an OECM should not impact negatively on biodiversity conservation values.
3. IDENTIFYING OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURES IN PRACTICE

*In-situ* conservation of biodiversity is “fundamental” to stemming biodiversity loss (CBD, 1992). Protected areas and OECMs are the primary means of achieving *in-situ* conservation under Aichi Target 11 and will continue to be important features of post-2020 CBD targets. All efforts to conserve biodiversity are valuable, but only those area-based measures that contribute directly to long-term *in-situ* conservation should be considered for reporting toward *in-situ* conservation targets such as Aichi Target 11. Other conservation efforts, including area-based approaches aimed at sustainable use, will be more appropriately reported against other types of targets, such as Aichi Targets 6 (sustainable fisheries) and 7 (sustainable forestry and agriculture) or analogous post-2020 targets (see, for example, Laffoley, et al., 2017 or Appendix I). Identifying and reporting OECMs will contribute to any CBD targets for *in-situ* conservation, including Aichi Target 11 and targets for *in-situ* conservation adopted post-2020.

To support decision-making processes, WCPA has developed a simple four-step screening tool, directly linked to the definition and the explanation of terms in Section 2. Any area being considered for recognition as an OECM should be screened for its eligibility against these criteria by or with the consent of the governing authority.

3.1 SCREENING TOOL

The screening tool (see Box 6) applies four tests to determine whether an area is a candidate OECM.

- **Test 1.** Ensure that the area is not already recognised and/or recorded as a protected area.
- **Test 2.** Ensure that the area has the essential characteristics as defined for OECMs.
- **Test 3.** Ensure that the conservation outcome will endure over the long-term.
- **Test 4.** Ensure that an *in-situ* area-based conservation target (e.g., Aichi Target 11), as opposed to a sustainable use target, is the right focus for reporting.

The elements of each test are elaborated in Section 3.2. Candidate OECMs must pass all four screening tests.

Box 5: Using the screening tool—key points to address

There are seven important points to consider and address when applying the screening tool:

1. **For cases in which a party other than the governing authority is managing the process**—including potential OECMs governed by Indigenous Peoples and local communities, to whom the principle of free, prior and informed consent applies—confirm the interest of the governing authority in having the area evaluated and potentially reported as an OECM.
2: Thoroughly read and discuss the Guidelines and the screening criteria and assemble a review team consisting of people familiar with the diversity of approaches being taken at the relevant scale to area-based conservation in that location.

3: Prior to applying the screening tool (section 3.2), compile a comprehensive set of maps and information on possible locations that might qualify as an OECM having compared them to maps of known designated or proposed protected areas so the relationship is readily understood.

4: Apply each of the four screening tests to each area being assessed as an OECM.

5: Identify those areas that pass all four tests as candidate OECMs and assess them using a nationally-adapted and empirical-based assessment tool (section 3.3).

6. Report OECMs which pass the assessment process to the WDPA – see section 4.

7: For those areas that do not pass the tests, record reasons for decisions against each criterion. This information may be helpful in identifying whether any changes to the governance or management might lead to the area qualifying as an OECM. Where desired, reapply 1–5 above, as appropriate.

### 3.2 APPLYING THE SCREENING TOOL

This section provides guidance on how to apply the screening tool. All references to “elements” refer to the elements of the definition, described in Section 2.2.

**Test 1.** Ensure that the area is not already recognised and/or recorded as a protected area

The area is neither already recognised nor proposed as a marine, freshwater or terrestrial protected area (see element a).

**Test 2.** Ensure that the area has the essential characteristics as defined for OECMs.

1. **LOCATION:** The area must be a geographically-defined space. Wider measures for species and/or environment that are not “area-based” fail this test. For example, species-specific national or regional hunting bans and regulations, whale-watching rules, or temporary fishing closures (see element b) are regional species-specific measures and not in-situ area-based conservation.

2. **SUSTAINED GOVERNANCE AND MANAGEMENT:** The area is governed and managed, and such arrangements are expected to be ongoing and sustained over the long-term. There should be a direct causal link between: (i) the area’s overall governance, objective(s) and management and (ii) the in-situ conservation of biodiversity over the long-term. Areas where there is neither a governance authority nor any management are not OECMs (see elements c, d and f). Accordingly, an area currently in a natural or near-natural state is not automatically an OECM.
3. **EFFECTIVE IN-SITU CONSERVATION OF BIODIVERSITY**: The area delivers the effective *in-situ* conservation of biodiversity, with associated ecosystem functions and services. There should be a clear understanding that the area is effectively conserving native biodiversity and the ecosystem processes that support biodiversity. This may be achieved through a variety of governance types and management practices, including those associated with cultural, spiritual, socio-economic and other locally relevant values. Areas that deliver conservation outcomes only over the short term or areas that are *intended or offer potential to conserve nature but do not yet deliver conservation outcomes* do not qualify as OECMs (see elements e, g, h, i, and j).

4. The area is free of environmentally-damaging activities and threats to biodiversity can be managed under the existing governance and management systems.

**Test 3.** Ensure that the conservation outcome will endure over the long-term.

This refers to the **probability** of the conservation **outcome** being maintained over the long term through legal or other effective means (such as, customary laws or formal agreements with landowners, see element e and f). This test emphasises the difference between current conservation efforts that can be reversed easily and an OECM that can sustain conservation outcomes over the long term.

**Test 4.** Ensure that an *in-situ* area-based conservation target (e.g., Aichi Target 11), as opposed to a sustainable use target, is the right focus for reporting.

*In-situ* conservation of biodiversity is one of the three primary objectives of the CBD. Within the context of reporting to the CBD under the 2020 Aichi Biodiversity Targets, protected areas and OECMs are the primary means of achieving *in-situ* conservation and the primary focus of Aichi Target 11. As elaborated in Box 6, area-based measures may also be applied to achieve sustainable use of the components of biodiversity (the focus of, for example, Aichi Target 6 on sustainable fisheries and Aichi Target 7 on sustainable agriculture, aquaculture and forestry). Yet it is important not to confuse such measures with *in-situ* conservation measures relevant to Aichi Target 11. Beyond 2020, it will continue to be important to report *in-situ* conservation measures (protected areas and OECMs) against their appropriate targets, and sustainable use measures against theirs. See **Appendix I** on the relationship between Target 11 and other associated Targets and **Appendix II** for a decision tree on selecting the most appropriate Aichi Target for a given conservation measure.

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**Box 6: Ensuring that Aichi Target 11 is the right focus**

The Strategic Plan for Biodiversity 2011–2020 and the 20 Aichi Biodiversity Targets call for a comprehensive set of approaches to stem biodiversity loss, including raising awareness of biodiversity, eliminating perverse incentives for its degradation, implementing sustainable...
production plans, reducing habitat loss, preventing species extinction, reducing direct pressures on biodiversity to sustainable levels, and conserving biodiversity \textit{in-situ}.

Area-based conservation measures can contribute to the achievement of several Aichi Targets, but not all area-based measures achieve their objectives through the \textit{in-situ} conservation of biodiversity consistent with Target 11 criteria.

For example, many fisheries closures apply to specific geographic areas and therefore are area-based measures, but may only be closed to the fishing of specific depleted commercial fish species, the use of certain habitat-damaging or non-selective gear types, or at certain times of year when vulnerable species are present at a vulnerable life stage (e.g., spawning aggregations). They may continue to allow fishery and non-fishery activities (e.g., seismic testing, oil drilling), as long as such activities do not compromise the purposes for which they have been established. As such, they may be effective tools in helping to ensure that fisheries are managed sustainably (the objective of Aichi Target 6), without achieving the \textit{in-situ} conservation of biodiversity (the objective of Aichi Target 11).

Similarly, forestry management plans are applied on an area basis and may vary in their degree of ecological impact. Lower-impact approaches may retain more species, habitat structures, and ecosystem functions than higher-impact approaches, and some may indeed achieve the CBD meaning of “sustainable use”—i.e., the use of components of biological diversity in a way, and at a rate, that does not lead to the long-term decline of biological diversity. However, because of their extractive, ecosystem-altering impacts, they may not also achieve the \textit{in-situ} conservation of all biodiversity. Such measures might best be considered as contributions to Aichi Target 7, which calls for areas under forestry to be managed sustainably by 2020.

The threshold between a Target 7 and a Target 11 measure may be difficult to decide in cases of customary use of biological resources in largely natural settings by Indigenous Peoples and local communities. In such cases, it may be useful to look at how well protected such areas are from forestry and non-forestry threats alike over the long-term to determine whether an area is an OECM.

Other Aichi Targets for which area-based measures may frequently be employed include Target 10 (minimize multiple anthropogenic threats on coral reefs), Target 12 (prevent the extinction and improve the conservation status of threatened species), Target 14 (restore and safeguard ecosystems that provide essential services), and Target 15 (conserve and restore degraded ecosystems). Where such measures achieve their objectives through the long-term \textit{in-situ} conservation of biodiversity, they may also contribute to Target 11.

\textbf{Areas that pass all four tests can be considered to be candidate OECMs.}

\textbf{3.3 ASSESSMENT}

Areas that are considered to be candidate OECMs should then be subject to more detailed review involving empirical evidence, conducted on a case-by-case basis. The OECM Assessment Methodology is available for download from the following link: \url{https://www.iucn.org/theme/protected-areas/wcpa/what-we-do/oecms}
Only those areas that pass this empirical assessment, including the full and effective participation and consent of the governance authority, should be reported to the WDPA (see Section 4 and Appendix III).

3.4 EXAMPLES OF POTENTIAL OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURES

The following situations can be considered as potential OECMs. These examples cover the range of governance types for purposes of illustrating their applicability. A number of examples in which the citation has been marked with an asterisk (*) can be found in a Special Issue of PARKS journal on OECMs (IUCN/WCPA, 2018). https://parksjournal.com/wp-content/uploads/2018/07/PARKS-24-SI-Low-ResWeb.pdf.

Primary conservation

A site that has a primary conservation objective and delivers effective biodiversity conservation but is not reported as a protected area could be recognised as an OECM if the governance authority so wishes.

Examples can include:

- Some territories or areas (marine, freshwater or terrestrial) governed by Indigenous Peoples, local communities or private entities that have a primary and explicit conservation objective and deliver the in-situ conservation of biodiversity, but where the governing body wishes the territories or areas to be recognised and reported as OECMs, rather than as protected areas.
- Privately conserved areas, which are managed with a specific conservation objective but which are not recognised as protected areas under national legislation (Mitchell, et al., 2018), e.g. ecosystem restoration areas in Indonesia (Utomo and Walsh, 2018*).
- Areas that include Key Biodiversity Areas, managed in ways that deliver long-term in-situ conservation of biodiversity through, for example, regulation or other effective approaches.
- Some permanently set-aside areas of a managed forest, such as old-growth, primary, or other high-biodiversity value forests, which are protected from both forestry and non-forestry threats.
- Some natural areas managed by universities for biological research.

Secondary conservation

Examples can include:

- Territories and areas managed by Indigenous Peoples and/or local communities (ICCas, or sections of these areas) to maintain natural or near-natural ecosystems, with low levels of use of natural resources practised on a sustainable basis and in a way that does not degrade the area’s biodiversity. This includes coastal and marine areas where local community-based
harvesting and management practices result in \textit{de facto} conservation of fish populations, habitats and other associated marine biodiversity such as some locally managed marine areas (LMMAs) (Jupiter, et al., 2014).

- Traditional management systems that maintain high levels of associated biodiversity. These could include certain agricultural or forest management systems that maintain native species and their habitat (e.g. Eghenter, 2018; Mwamidi, et al., 2018*).
- Urban or municipal parks managed primarily for public recreation but which are large enough and sufficiently natural to also effectively achieve the \textit{in-situ} conservation of biodiversity (e.g. wild grassland, wetlands) and which are managed to maintain these biodiversity values (e.g. Gray, et al., 2018).
- Military lands and waters, or portions of military lands and waters that are primarily managed for the purpose of defence, but with specific secondary objectives focused on the conservation of biodiversity. Canadian Forces Base Shilo, located in the mixed-grass prairie ecosystem of south-central Manitoba (Canada), was proposed by Canada as an OECM in 2019.
- Watersheds or other areas managed primarily for water resource management that also result in the \textit{in-situ} conservation of biodiversity. This can include, for example, water meadows, riverine forest, coastal forests, wetlands, streams, upland catchments, or other areas managed for long-term soil and slope stabilisation, flood mitigation, or other ecosystem services (e.g. Matallana-Tobón, et al., 2018*).
- Permanent or long-term fisheries closure areas designed to protect complete ecosystems for stock recruitment, to protect specialised ecosystems in their entirety, or protect species at risk through the \textit{in-situ} conservation of biodiversity as a whole, and are demonstrated to be effective against fishery and non-fishery threats alike.
- Hunting reserves that maintain natural habitats and other flora and fauna as well as viable populations of hunted and non-hunted native species.
- Areas successfully restored from degraded or threatened ecosystems, to provide important ecosystem services but which also contribute to effective biodiversity conservation, e.g. freshwater and coastal wetlands restored for flood protection.
- Areas that contribute to conservation because of their role in connecting protected areas and other areas of particular importance for the conservation of biodiversity, thereby contributing to the long-term viability of larger ecosystems (e.g. Waithaka and Warigia Njoroge, 2018*).

\textbf{Ancillary conservation}

Examples can include:

- Sacred natural sites with high biodiversity values that are conserved in the long-term for their associations with one or more faith groups (e.g. Matallana-Tobón, et al., 2018*).
• Coastal and marine areas protected for reasons other than conservation, but that nonetheless achieve the in-situ conservation of biodiversity e.g., historic wrecks, war graves, etc. (e.g. see Box 3)
• Military lands and waters, or portions of military lands and waters that are managed for the purpose of defence, do not have a secondary objective of biodiversity conservation, but achieve the effective conservation of biodiversity in the long term.

### 3.5 EXAMPLES OF AREAS UNLIKELY TO MEET THE CRITERIA

The following areas and management regimes are unlikely to qualify as OECMs:

• Small, semi-natural areas within an intensively-managed landscape with limited biodiversity conservation value, such as municipal parks, formal/domestic gardens, arboreta, field margins, roadside verges, hedgerows, narrow shoreline or watercourse setbacks, firebreaks, recreational beaches, marinas and golf courses.
• Forests that are managed commercially for timber supply and are intended for logging, even though they may have some conservation values and support some species of interest. Such areas should be considered as contributing to Aichi Target 7.
• Fishery closures, and other spatial fisheries management tools, including, but not limited to, fishing quotas or catch limits, temporary set asides or gear restriction areas with a single species, species group, or habitat focus, that may be subject to periodic exploitation and/or be defined for stock management purposes, and that do not deliver in-situ conservation of the associated ecosystems, habitats and species with which target species are associated. Such areas should be considered as contributing to Aichi Target 6.
• Agricultural lands which are managed in a manner that limits the in-situ conservation of biodiversity. This may include, for example, pastures that are grazed too intensively to support native grassland ecosystems or species, or grasslands replanted with monocultures or non-native species for the purposes of livestock production.
• Temporary agricultural set asides, summer fallow and grant-maintained changes to agricultural practice that may benefit biodiversity.
• Conservation measures that apply to a single species or group of species, over a wide geographical range such as hunting regulations or whale-watching rules; these are better considered as being part of wider species conservation measures (Targets 5, 6, 7 and/or 12).

The above examples are not meant to be exhaustive or without exception, but are intended to indicate which kinds of areas may qualify as OECMs and which would not. When considering any area, the definitions and criteria applied during the four criteria screening test will be the appropriate route to ensure consistent identification of candidate OECMs. Given the diversity of situations where OECMs can occur, it is essential that all areas being assessed should be screened carefully to evaluate each specific case.
The concept of OECMs will generally be used to recognise existing examples of effective area-based conservation and the governance and management regimes that support them. The concept could, however, also be used to promote new and additional conservation efforts. During negotiation of Decision 14/8, qualifying terms like “have a significant biodiversity value, or have objectives to achieve this” and “achieve, or is expected to achieve, positive and sustained outcomes for the in-situ conservation of biodiversity” were added to guiding text for identification of OECMs. Governments proposing these caveats stressed that they were added to address sites where restoration was taking place, to acknowledge deliberate attempts at ecosystem recovery. The intent to restore ecosystems and habitats is commendable, but restoration areas should not be recognized as OECMs until they are delivering demonstrable and significant biodiversity outcomes – see Box 7.

**Box 7: Ecological restoration in OECMs**

Ecological restoration is the process of managing or assisting the recovery of an ecosystem that has been degraded, damaged or destroyed as a means of sustaining ecosystem resilience and conserving biodiversity (CBD, 2016). It is likely to become a more common and necessary conservation tool in the future.

Areas proposed for, or under active restoration efforts, should not be recognised as OECMs until they are delivering demonstrable and significant biodiversity outcomes. IUCN’s guidance is therefore that restoration areas proposed as OECMs should meet all the following conditions:

1. Restoration is taking place in an ecosystem of high biodiversity value (see Box 4) so that the area, once restored, will qualify as an OECM by virtue of its conservation value and contribution to strengthening existing protected area networks;

2. Any restoration efforts should (i) have reduced the threats that caused the original degradation and biodiversity loss, (ii) show successful ecosystem recovery based on the principles of ecological restoration and (iii) contribute to long-term maintenance of a resilient and evolving ecosystem; and

3. Demonstrate active ecological restoration or natural regeneration of a type and at a scale that is expected to regain and maintain ecological integrity and a full complement of species.

### 3.6 RIGHTS AND RESPONSIBILITIES OF GOVERNANCE AUTHORITIES

There are many diverse reasons that will lead a governance authority to consider recognising or proposing their area as an OECM. Governance authorities can identify an area as a possible OECM and either assess it themselves or seek independent support to determine whether the area qualifies as an OECM using these Guidelines. They have the right to object to the external nomination or recognition of their area as an OECM in cases where their consent has not been given. This applies to all four governance types, as set out above (see element c).
When an area is recognised as an OECM, it places a heightened responsibility on the governance authority to continue to govern and manage the area in ways that achieve the *in-situ* conservation of biodiversity. Recognition of other effective area-based conservation measures should be supported by measures to enhance the governance capacity of their legitimate authorities and secure their positive and sustained outcomes for biodiversity. While national circumstances will differ, any related legislation should provide greater support and recognition to existing governance systems and not seek to supplant or unnecessarily alter those local arrangements that are effective.
4. MONITORING AND REPORTING OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURES

Monitoring the effectiveness of OECMs is needed. This should include: (i) baseline documentation and ongoing monitoring of the sites’ biodiversity values; (ii) ongoing community-based monitoring, participatory mapping and incorporation of traditional knowledge, where appropriate; (iii) monitoring conservation actions, including those focused on sustaining biodiversity and improving *in situ* conservation; and (iv) monitoring of governance, stakeholder involvement and management systems that contribute to the biodiversity outcomes (Haase, et al., 2018; Woodley, et al., 2015).

A key element of the definition is that OECMs should be “governed and managed in ways that achieve positive and sustained long-term biodiversity outcomes”. This is linked to the concept of management effectiveness. Therefore, monitoring and reporting on the effectiveness of OECMs will be critical to ensure that sites continue to deliver conservation outcomes (Woodley, et al., 2015). Measuring Protected Area Management Effectiveness (PAME) will in many cases be the most pragmatic way to measure the effectiveness of OECMs, but the PAME tools should be supported by additional quantitative information on biodiversity outcomes. The use of the IUCN Green List of Protected and Conserved Areas Standard will further support such documentation (IUCN, 2017). Authorities responsible for OECMs should ensure that adequate monitoring is undertaken of the effectiveness of management to ensure long-term conservation outcomes (see Hockings, et al., 2015). This information should also be reported to UNEP-WCMC for integration into the Global Database on Protected Area Management Effectiveness (GD-PAME).

The concept of “other effective area-based conservation measures” is a product of decisions by the Parties to the CBD. When adopting the definition of OECMs, the CBD COP14 also encouraged parties to submit data on OECMs to the World Database on Protected Areas (WDPA) managed by UNEP-WCMC (CBD, 2018). In order to fulfil this obligation, UNEP-WCMC has established a parallel database for OECMs under the Protected Planet initiative, to complement the WDPA. The Protected Planet initiative encompasses several databases that can be accessed and downloaded through its website, [www.protectedplanet.net](http://www.protectedplanet.net). UNEP-WCMC uses data in these databases to measure progress against international conservation goals, such as Aichi Biodiversity Target 11 and Sustainable Development Goals 14 and 15.

Area-based measures that qualify as protected areas or OECMs should be reported to the WDPA or OECM database, respectively. Such reporting should be done with the free, prior and informed consent of the relevant governance authorities.

For more information on reporting requirements to the WDPA and OECM database and verification of data, see Table 1 (below), Appendix III and the guidance available from [www.wcmc.io/oecm_guidance](http://www.wcmc.io/oecm_guidance).
Table 1. Basic principles for verification of data for inclusion in the Protected Planet databases

| Data submitted by governmental sources | In line with the official mandates for the WDPA, data submitted by governmental sources on protected areas or OECMs will be considered as state verified and will be included in the WDPA and OECM databases after data formatting and quality control. |
| Data submitted by non-governmental sources | Incoming data from non-government data providers undergoes a verification process before being added to the Protected Planet databases. Data can be verified either by state verifiers or by expert verifiers. If neither party can verify the data, it does not enter the Protected Planet databases. |
| Resolution of conflicting data | Where there is conflict between the opinions of the data provider and data verifier (for example, disputes over the correct boundary of a site), this will be discussed with both parties in an attempt to reach a solution. Data providers are made aware of the verification process when submitting data, and are kept informed of its progress. In cases where no resolution can be found, data cannot enter the Protected Planet databases. |
| Frequency of data verification | UNEP-WCMC aims to update all data at least once every five years. |

For queries regarding reporting, please contact: protectedareas@unep-wcmc.org.
5. REFERENCES


Canada Department of Fisheries and Oceans (2016). Operational guidance for identifying “other effective area-based conservation measures” in Canada’s marine environment. Canada Department of Fisheries and Oceans: Ottawa, Canada. 9pp. Accessed January 17, 2017 at:


GLOSSARY OF TERMS

**Biodiversity**: The variability among living organisms from all sources including, *inter alia*, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part: this includes diversity within species, between species and of ecosystems. (CBD Article 2).

**Candidate OECMs**: Geographically defined spaces that have been identified as potential OECMs by the governance authority and are being assessed against the CBD criteria.

**Conserved areas**: CBD Parties and other organisations are increasingly referring to “protected and conserved areas” (see for example CBD decision 14/8 and the IUCN Green List of Protected and Conserved Areas). In this context, “conserved areas” include areas that may satisfy the criteria for “other effective area-based conservation measures”.

**Cultural and spiritual values**: These include recreational, religious, aesthetic, historic and social values related to tangible and intangible benefits that nature and natural features have for people of different cultures and societies, with a particular focus on those that contribute to conservation outcomes (e.g. traditional management practices on which key species, biodiversity or whole ecosystems have become reliant or the societal support for conservation of landscapes for the maintenance of their quality in artistic expression or beauty) and intangible heritage, including cultural and spiritual practices.

**Ecologically and Biologically Significant Marine Areas**: EBSAs are special areas in the ocean that serve important purposes, in one way or another, to support the healthy functioning of oceans and the many services that it provides. ([https://www.cbd.int/ebsa/](https://www.cbd.int/ebsa/))

**Ecosystem**: A dynamic complex of plant, animal and micro-organism communities and their non-living environment interacting as a functional unit. (CBD Article 2).

**Ecosystem approach**: The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way. Application of the ecosystem approach will help to reach a balance of the three objectives of the Convention. It is based on the application of appropriate scientific methodologies focused on levels of biological organization which encompass the essential processes, functions and interactions among organisms and their environment. It recognizes that humans, with their cultural diversity, are an integral component of ecosystems. ([https://www.cbd.int/ecosystem/](https://www.cbd.int/ecosystem/)).

**Free, prior and informed consent**: Free, Prior and Informed Consent (FPIC) is a specific right that pertains to Indigenous Peoples and is recognised in the United Nations Declaration on the Rights of Indigenous Peoples. It allows them to give or withhold consent to a project that may affect them or their territories. Once they have given their consent, they can withdraw it at any stage. Furthermore, FPIC enables them to negotiate the conditions under which the project will be designed, implemented, monitored and evaluated. This is also embedded within the universal right to self-determination. (UN, 2007).

**Geodiversity**: The natural range (diversity) of geological (rocks, fossils, minerals), geomorphological (land form, physical processes) and soil features, and includes their assemblages, relationships, properties, relationships and systems. (Gray, 2004).
**Governance authority:** The institution, individual, Indigenous Peoples or communal group or other body acknowledged as having authority and responsibility for decision-making and management of an area.

**Habitat:** The place or type of site where an organism or population naturally occurs. (CBD Article 2).

**Indigenous Peoples and local communities:** This report follows the Convention on Biological Diversity’s uses of the terms “Indigenous Peoples” and “local communities”.

**In-situ conservation:** The conservation of ecosystems and natural habitats and the maintenance and recovery of viable populations of species in their natural surroundings and, in the case of domesticated or cultivated species, in the surroundings where they have developed their distinctive properties. (CBD Article 2).

Locally managed marine area: A locally managed marine area (LMMA) is an area of nearshore waters and its associated coastal and marine resources that is largely or wholly managed at a local level by the coastal communities, land-owning groups, partner organizations, and/or collaborative government representatives who reside or are based in the immediate area. ([http://lmmanetwork.org/](http://lmmanetwork.org/))

**Management authority:** The organisation or entity responsible for the ongoing management of a site. The management authority may or may not be the same as the governance authority, the organisation or entity that holds legal or customary authority and responsibility for the site.

**Potential OECM:** A geographically defined space that has been identified as having OECM-like characteristics but where the governance authority has yet to decide to assess it using the screening tool, whereupon it becomes a “candidate OECM”.

**Protected area:** The CBD defines a protected area as: “A geographically defined area which is designated or regulated and managed to achieve specific conservation objectives” (CBD Article 2). IUCN has a more detailed definition: “A clearly defined geographical space, recognised, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values” (Dudley, 2008). The CBD and IUCN recognise the two as being equivalent in practice (Lopoukhine and Dias, 2012) as in both cases these areas are intended to achieve in-situ conservation.

**Sustainable use:** The use of components of biological diversity in a way and at a rate that does not lead to the long-term decline of biological diversity, thereby maintaining its potential to meet the needs and aspirations of present and future generations. (CBD Article 2).
The Broad relationship between the Aichi Targets and Target 11
(Adapted from Laffoley, et al., 2017).

<table>
<thead>
<tr>
<th>Target</th>
<th>Text</th>
<th>Relationship to Target 11</th>
</tr>
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<tbody>
<tr>
<td>T3</td>
<td>By 2020, at the latest, incentives, including subsidies, harmful to biodiversity are eliminated, phased out or reformed in order to minimise or avoid negative impacts, and positive incentives for the conservation and sustainable use of biodiversity are developed and applied, consistent and in harmony with the Convention and other relevant international obligations, taking into account national socioeconomic conditions.</td>
<td>Positive incentives for the conservation and sustainable use of biodiversity that result in the area-based <em>in-situ</em> conservation of nature, such as tax incentives for owners of privately conserved areas, are examples of Target 3 measures that also contribute to the achievement of Target 11.</td>
</tr>
<tr>
<td>T4</td>
<td>By 2020, at the latest, Governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of use of natural resources well within safe ecological limits.</td>
<td>Sustainable production plans (T4 measures) may include unexploited reference, “insurance policy”, or “seed source” set-aside areas, which help to ensure that use of a broader area is sustainable. If such set asides are effective for the long-term <em>in-situ</em> conservation of biodiversity, they may contribute to Target 11.</td>
</tr>
<tr>
<td>T5</td>
<td>By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.</td>
<td>The establishment of Target 11 areas is one important means of achieving Target 5. Establishing areas that are effective for the long-term <em>in-situ</em> conservation of nature, whether protected areas or OECMs, can prevent loss of natural habitats, and degradation and fragmentation of ecosystems, especially if such areas are well managed. In a terrestrial context this may relate to primary forests and in a marine context this might be particularly valid in the case of habitats such as coral reefs, seagrass beds and submarine mounts.</td>
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<tr>
<td>T6</td>
<td>By 2020 all fish and invertebrate stocks and aquatic plants are managed and harvested sustainably, legally and applying ecosystem-based approaches, so that overfishing is avoided, recovery plans and measures are in place for all depleted species, fisheries have no significant adverse impacts on threatened species and vulnerable</td>
<td>Target 11 areas can help ensure that exploitation of the elements of biodiversity in the wider seascape is sustainable by: providing benchmarks against which the effects of management decisions can be evaluated; “insurance policy” and “seed source” functions to enable recovery from management failures; and/or provide “spillover” benefits in the wider seascape. Species or habitat conservation measures which apply broadly across wider seascapes rather than to distinct and well-defined</td>
</tr>
<tr>
<td>Target</td>
<td>Description</td>
<td>Action</td>
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<td>--------</td>
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<tr>
<td>T7</td>
<td>By 2020 areas under agriculture, aquaculture and forestry are managed sustainably, ensuring conservation of biodiversity.</td>
<td>Target 11 areas embedded within landscapes managed primarily for agriculture, aquaculture, or forestry can help ensure that such activities do not cause irreversible biodiversity loss over wider landscapes by providing benchmarks against which the effects of management decisions can be evaluated. They can also provide “insurance policy” and “seed source” functions to enable recovery from management failures, “spillover” benefits, and contributions to connectivity in the wider landscape.</td>
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<tr>
<td>T9</td>
<td>By 2020, invasive alien species and pathways are identified and prioritised, priority species are controlled or eradicated, and measures are in place to manage pathways to prevent their introduction and establishment.</td>
<td>Target 11 areas with management objectives to maintain or restore ecological integrity may be a focus for Target 9 measures to eradicate alien species.</td>
</tr>
<tr>
<td>T10</td>
<td>By 2015, the multiple anthropogenic pressures on coral reefs, and other vulnerable ecosystems impacted by climate change or ocean acidification are minimized, so as to maintain their integrity and functioning.</td>
<td>Target 11 measures can have value in protecting coral reefs and other vulnerable ecosystems from anthropogenic pressures such as habitat degradation and species overexploitation. However, Target 11 measures cannot, on their own, fully address threats from climate change and ocean acidification, which necessitate reductions in global greenhouse gases.</td>
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<td>T12</td>
<td>By 2020 the extinction of known threatened species has been prevented and their conservation status, particularly of those most in decline, has been improved and sustained.</td>
<td>Target 11 measures are a major tool for preventing extinction and aiding recovery of threatened species, through the long-term in-situ conservation of species and their associated ecosystems. Target 12 measures focused on single species and which are not area-based, not long-term, or not achieved through in-situ conservation of biodiversity as a whole, are not also Target 11 measures. Target 11 measures can prevent extinction and aid recovery of threatened species, thus contributing to Target 12.</td>
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<tr>
<td>T14</td>
<td>By 2020, ecosystems that provide essential services, including services related to water, and contribute to health, livelihoods and well-being, are restored and safeguarded, taking into account the needs of ecosystems and the impacts of fisheries on stocks, species and ecosystems are within safe ecological limits.</td>
<td>Target 11 measures can be a means of helping achieving Target 14 by protecting ecosystems that provide a variety of services. Some measures aimed at achieving Target 14 may also be recognised as contributions to Target 11 if they are achieved through the long-term in-situ conservation of...</td>
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<td><strong>T15</strong></td>
<td>By 2020, ecosystem resilience and the contribution of biodiversity to carbon stocks has been enhanced, through conservation and restoration, including restoration of at least 15 per cent of degraded ecosystems, thereby contributing to climate change mitigation and adaptation and to combating desertification.</td>
<td>Target 11 areas, because of their generally higher levels of ecological integrity than exploited landscapes and seascapes, are often more resilient, more diverse, and store more carbon. Protecting intact areas, and protecting and restoring degraded areas, are two ways Target 11 measures can contribute to Target 15. Target 15 measures that achieve their objectives through the long-term <em>in situ</em> conservation of biodiversity may be recognised as Target 11 areas.</td>
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<tr>
<td><strong>T18</strong></td>
<td>By 2020, the traditional knowledge, innovations and practices of indigenous and local communities relevant for the conservation and sustainable use of biodiversity, and their customary use of biological resources, are respected, subject to national legislation and relevant international obligations, and fully integrated and reflected in the implementation of the Convention with the full and effective participation of indigenous and local communities, at all relevant levels.</td>
<td>Target 11 measures can contribute to Target 18 by helping ensure that the areas in which traditional knowledge, innovations, and practices of indigenous and local communities have developed, and where their customary uses of biological resources occur, remain ecologically intact and able to sustain such activities for the long term. Conversely some traditionally managed indigenous areas may contribute to Target 11, for example some sacred natural sites that are not part of the formal protected area network.</td>
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APPENDIX II

Decision Support: Is Aichi Target 11 the most appropriate Aichi Target against which to evaluate a conservation measure?

- The measure does not apply to a spatially defined area.
- The measure does not contribute to other Aichi Targets as appropriate.
- Not a Target 11 measure. Evaluate for contribution to other Aichi Targets as appropriate.

The measure aims purport to safeguard ecosystems, species, and genetic diversity, and thereby maintain the status of biodiversity (Biodiversity Strategy Plan for Biodiversity 2011-2020).

The measure aims purportedly to conserve ecosystems, habitats, and maintain and/or recover viable populations of species in their natural surroundings (Aichi Target 11, OEVM).

The measure aims purportedly to prevent the extinction and improve and assist the conservation status of known threatened species (Aichi Target 11, OEVM).

The measure aims purportedly to maintain the genetic diversity of cultivated plants and farm and domesticated animals and of wild relatives, including other socio-economically and culturally valuable species (Aichi Target 11, OEVM).

The measure aims purportedly to reduce or halt the loss, degradation, and fragmentation of natural habitats (Aichi Target 5, OEVM).

The measure aims purportedly to ensure that the management and harvest of marine fish, invertebrates, and plants is sustainable (Aichi Target 6, OEVM).

The measure aims purportedly to ensure that areas under agriculture, livestock, or forestry are sustainable (Aichi Target 7, OEVM).

The measure aims purportedly to minimize multiple anthropogenic pressures on coral reefs and other marine ecosystems impacted by climate change or ocean acidification, up to and maintaining high biodiversity and functioning (Aichi Target 9, OEVM).

The measure aims purportedly to restrict and reduce pollution to marine ecosystems, sites provide marine services, including areas related to water, and contribute to health, livelihoods, and wellbeing (Aichi Target 14, OEVM).

The measure aims purportedly to enhance ecosystem resilience and the contribution of biodiversity to human well-being through conservation and restoration, including restoration of degraded ecosystems (Aichi Target 7, OEVM).

The measure achieves its aims by conserving ecosystems and habitats, and maintaining and/or recovering viable populations of species in their natural surroundings.

The measure does not achieve its aims by conserving ecosystems and habitats, and maintaining and/or recovering viable populations of species in their natural surroundings.

Key:
- Green: Necessary pathway to consideration as a potential Aichi Target 11 measure.
- Yellow: Secondary pathway to consideration as a potential Aichi Target 11 measure.
- Red: Not a pathway to consideration as a potential Aichi Target 11 measure.

Evaluate as potential Target 11 OECD and for contribution under Targets 5, 7, 14 or others as appropriate.

Evaluate as potential Target 13 OECD and for contribution under Targets 5, 7, 14 or others as appropriate.

Evaluate as potential Target 11 OECD and for contribution under Targets 12, 13, or others as appropriate.

Evaluate as potential Target 13 OECD and for contribution under Targets 12, 13, or others as appropriate.

Not a Target 11 measure. Evaluate for contribution to other Aichi Targets as appropriate.

Not a Target 13 measure. Evaluate for contribution to other Aichi Targets as appropriate.
APPENDIX III

Protected Planet Databases on Protected Areas and OECMs

All data on other effective area-based conservation measures (OECMs/conserved areas) should be submitted to the UN Environment World Conservation Monitoring Centre (UNEP-WCMC) to be added to the World Database on Protected Areas (WDPA).

Additional guidance will be available here: www.wcmc.io/conservedareas_guidance

What is the World Database on Protected Areas?

The WDPA is the most comprehensive global database of marine and terrestrial protected areas, comprising both spatial data (i.e., boundaries and points) with associated attribute data (i.e., tabular information), collected in a standardised way. Source information is also maintained for all datasets submitted. The WDPA is updated on a monthly basis and made available and downloadable online through Protected Planet with the exception of data that have sharing restrictions placed on them by data providers. The WDPA User Manual (UNEP-WCMC, 2017) provides detailed information and guidance about the data held within the WDPA, including its collation and data standards.

The new OECM database follows the same structure as the WDPA, with minor modifications. The WDPA and OECM databases are the official data sources used for several global reporting mechanisms, informing indicators and tracking progress towards protected and conserved area targets, including for the CBD Strategic Plan Aichi Biodiversity Targets and the UN Sustainable Development Goals (SDGs).

Reporting, data collection and validation of Protected Areas and OECMs

Usually data is submitted to the WDPA or OECM database by the governance authority for the protected or conserved area, and this data has priority over data submissions on the same area from other sources. When the governance authority is not able to provide an update due to lack of capacity, lack of data or other circumstance, they may suggest another provider to be contacted for an update. All sites should meet the IUCN/CBD definition of a protected area or “other effective area-based conservation measure”.

Only one version of any protected or conserved area is stored in the Protected Planet databases. Where there are overlapping areas, these are typically different designations that cover the same geographical space.

All data in the WDPA or OECM database must meet a set of data standards. Standards are important to ensure all information is supplied in a common format that is interoperable and useful for a wide variety of reporting and analytical purposes. There are four key requirements that need to be met to comply with the Protected Planet data standards:

1. All sites should meet the IUCN/CBD definition of a protected area or “other effective area-based conservation measure”.
2. Spatial data from Geographic Information Systems (GIS) and an associated list of standardised attributes must be provided.

3. Source of information must be provided to ensure that ownership of the data is maintained and traceable.

4. A Data Contributor Agreement must be signed to ensure that there is a written record of the data provider agreeing that the data be included in the WDPA or OECM database and the terms under which it is made available.

**Using the Protected Planet databases to measure progress against Targets**

UNEP-WCMC uses data in the Protected Planet databases to measure progress against international conservation goals, such as Aichi Biodiversity Target 11. For reporting on Target 11, three statistics will be generated, for national, regional and global level:

- Protected area coverage;
- Other effective area-based conservation measures coverage; and
- Combined coverage.

To calculate coverage, UNEP-WCMC removes overlaps between sites, and excludes certain categories of sites (those that are proposed, points with no reported area, and UNESCO Man and Biosphere Reserves). Although conserved areas and protected areas would not normally occupy the same area (see Section 3.2 b), there may be occasional cases of overlap. In such cases, the area of overlap is treated as a protected area only. This method avoids double-counting. Further information on how UNEP-WCMC calculates coverage statistics is available at https://protectedplanet.net/c/calculating-protected-area-coverage

**Monitoring other effective area-based conservation measures**

Protected Areas Management Effectiveness (PAME) will in many cases be the most pragmatic way to measure the effectiveness of conserved areas, especially where the PAME tools are supported by additional information on biodiversity outcomes. Over 40 tools have been developed for PAME assessments (see UNEP-WCMC 2018). The adoption of existing PAME systems means that it will be easier for the authority to report on effectiveness monitoring to UNEP-WCMC, and that assessments will be in a standardised format between sites and over time.

Some basic principles for monitoring conserved areas to track effective conservation are described in steps 1–4 below. Steps 1–3 can also be used to support the decision as to whether a site is a conserved area, or is still effectively conserved on repeat assessments.

1. Describe all significant biodiversity values on the site, with a record of the sources of information to support this. Consider representativeness, intactness, landscape context, rare, threatened, endemic and significant species and habitats and ecological integrity.
2. Identify pressures and threats to the site that will impact the biodiversity values.

3. Review the management inputs and measures undertaken on the site to assess their effectiveness, whether they are sufficient to maintain the biodiversity features, and if they cover the full scope of biodiversity on the site, and address controllable threats to in-situ conservation of biodiversity.

4. Review the effectiveness in terms of the conservation outcomes on the site, through measuring the status of priority attributes, setting and reviewing targets and indicators that measure status and trends over time, measuring mitigation of threats, monitoring and managing adaptively.

Reporting to the Global Database on Protected Areas Management Effectiveness (GD-PAME) managed by UNEP-WCMC follows a similar approach to that outlined above for the WDPA and OECM database. For any queries regarding reporting, collation, use, or processing of the GD-PAME, please contact: protectedareas@unep-wcmc.org.