



Convention on  
Biological Diversity



# Aichi Biodiversity Target 11 Country Dossier: SWEDEN

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Global Partnership on  
AICHI TARGET 11



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## GLOSSARY

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|          |  |
|----------|--|
| AZEs     | Alliance for Zero Extinction sites   |
| CEPF     | Critical Ecosystem Partnership Fund  |
| EBSA     | Ecologically or Biologically Significant Marine Area   |
| EEZ      | Exclusive Economic Zone  |
| GCF      | Green Climate Fund   |
| GD-PAME  | Global Database on Protected Area Management Effectiveness   |
| GEF      | Global Environment Facility  |
| IBA      | Important Bird and Biodiversity Area   |
| ICCAs    | Indigenous and Community Conserved Area Area (may also be referred to as territories and areas conserved by Indigenous peoples and local communities or “territories of life”) |
| IPLC     | Indigenous Peoples and Local Communities   |
| KBA      | Key Biodiversity Area  |
| MEOW     | Marine Ecosystems of the World   |
| MPA      | Marine Protected Area  |
| NBSAP    | National Biodiversity Strategy and Action Plan   |
| OECD     | Other Effective Area-Based Conservation Measures   |
| PA       | Protected Area   |
| PAME     | Protected Area Management Effectiveness  |
| PPA      | Privately Protected Area   |
| PPOW     | Pelagic Provinces of the World   |
| ProtConn | Protected Connected land indicator   |
| SOC      | Soil Organic Carbon  |
| TEOW     | Terrestrial Ecosystems of the World  |
| WDPA     | World Database on Protected Areas  |
| WD-OECD  | World Database on Other Effective Area-Based Conservation Measures   |

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

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

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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 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. Where available, data from national statistics for the elements of Target 11 are included alongside records from these global databases. 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](mailto:protectedareas@unep-wcmc.org) with any updates to the information in these databases.

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

#### Coverage - Terrestrial & Marine

- **Status:** as of May 2021 (per the WDPA), terrestrial coverage in Sweden is 64,987.5 km<sup>2</sup> (14.5%) and marine coverage is 23,830.1 km<sup>2</sup> (15.4%); national assessment indicates that 14% of the Swedish waters are protected.
- **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— Terrestrial & Marine

- **Status:** Sweden contains 4 terrestrial ecoregions, 2 marine ecoregions, and 1 pelagic province: the mean coverage by reported PAs and OECMs is 18.9% (terrestrial), 20.9% (marine), and 75.3% (pelagic); all ecoregions have at least some coverage by reported PAs and OECMs.
- **Opportunities for action:** there is opportunity for Sweden to increase protection in terrestrial and marine ecoregions that have lower levels of coverage by PAs or OECMs, and to focus on effective management for those that already have higher coverage.



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### Areas Important for Biodiversity

- **Status:** Sweden has 84 Key Biodiversity Areas (KBAs): the mean coverage of KBAs by reported PAs and OECMs is 59.4%, while 5 KBAs have no coverage by reported PAs and OECMs.
- **Opportunities for action:** there is opportunity for Sweden 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 Sweden, 8.5% of aboveground biomass carbon, 11.5% of belowground biomass carbon, 8.6% of soil organic carbon, 16.1% of carbon stored in marine sediments is covered by PAs and OECMs.
- **Opportunities for action:** for carbon, there is opportunity for Sweden to increase PA and OECM coverage in both marine and terrestrial areas with high carbon stocks. Protecting areas with high carbon stocks secures the benefits of carbon sequestration in the area.
- For water, there is opportunity to increase the area of the water catchment under protection by PAs and OECMs, or in cases where there is high levels of protection, focus on effective management for these areas. Protecting the current area of forested land and potentially reforesting would have benefits for improving water security.

### Connectivity and Integration

- **Status:** coverage of protected-connected lands is 8.4%.
- **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 for reported PAs in Sweden is: 99.5% under Government (Federal or national ministry or agency).
- **Opportunities for action:** explore opportunities for governance types that have lower representation, for Sweden this could relate to governance by Indigenous Peoples and/or local communities (IPLC), shared governance, etc.



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- There is also opportunity for Sweden 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:** 16.2% of terrestrial PAs and 4.5% of marine 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 and **has not** been met for marine PAs. Therefore, there is opportunity to increase protected area management effectiveness (PAME) evaluations for both terrestrial and marine PAs 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

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



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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](http://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](http://www.wcmc.io/WDPA_Manual)), and these should be directed to [protectedareas@unep-wcmc.org](mailto: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](http://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

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



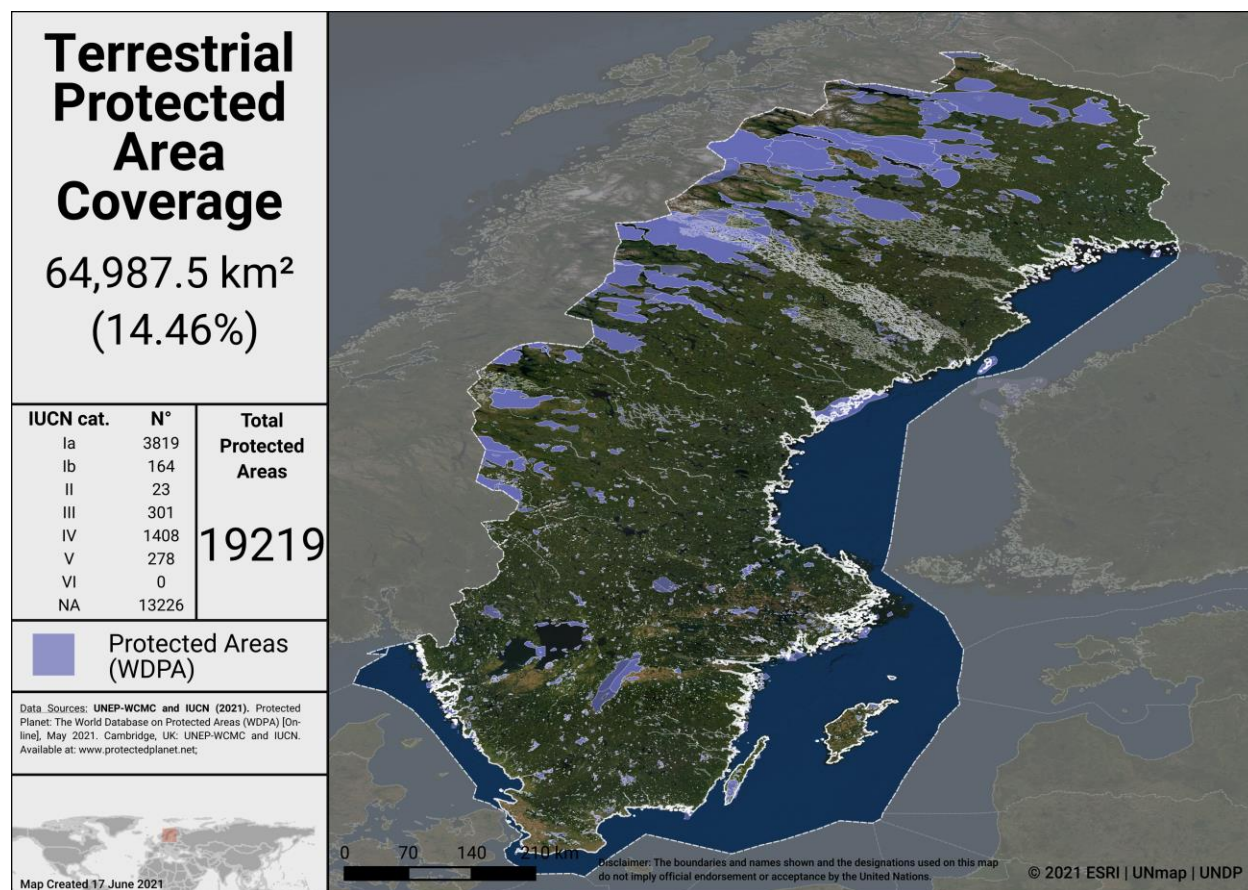
## COVERAGE - TERRESTRIAL & MARINE

As of May 2021, Sweden has **20,714** protected areas reported in the World Database on Protected Areas (WDPA). 1,170 PAs that have no spatial boundary and no area listed in the WDPA, and a further 4 UNESCO-MAB Biosphere Reserves, are not included in the following statistics (see details on UNWP-WCMC's methods for calculating PA and OECM coverage [here](#)).

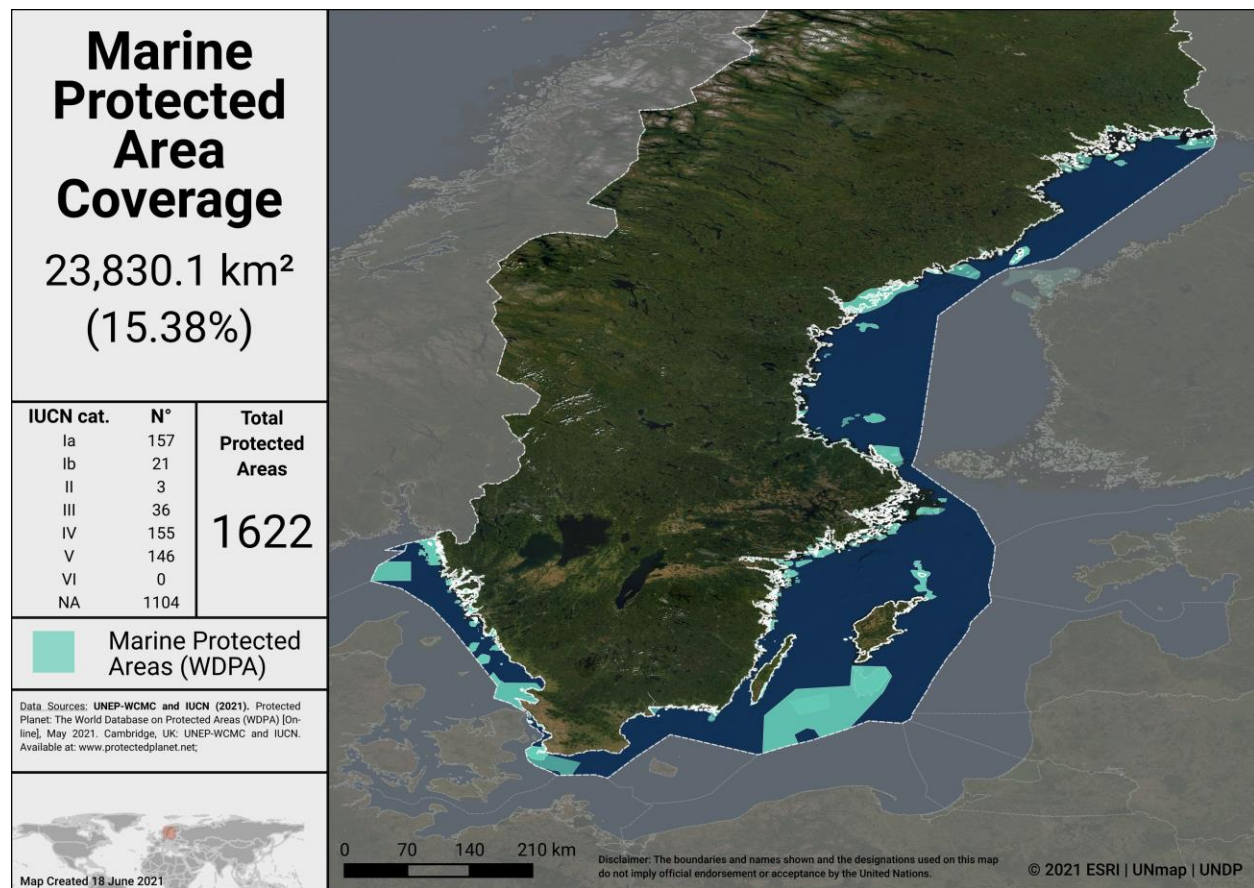
As of May 2021, Sweden has **0** OECMs reported in the world database on OECMs (WD-OECM).

Current coverage for Sweden (per the WDPA):

- 14.5% terrestrial (19,219 protected areas, 64,987.5 km<sup>2</sup>)
- 15.4% marine (1,622 protected areas, 23,830.1 km<sup>2</sup>)
  - *National assessments indicate that 14% of Swedish waters are protected*



Terrestrial Protected Areas in Sweden



Marine Protected Areas in Sweden

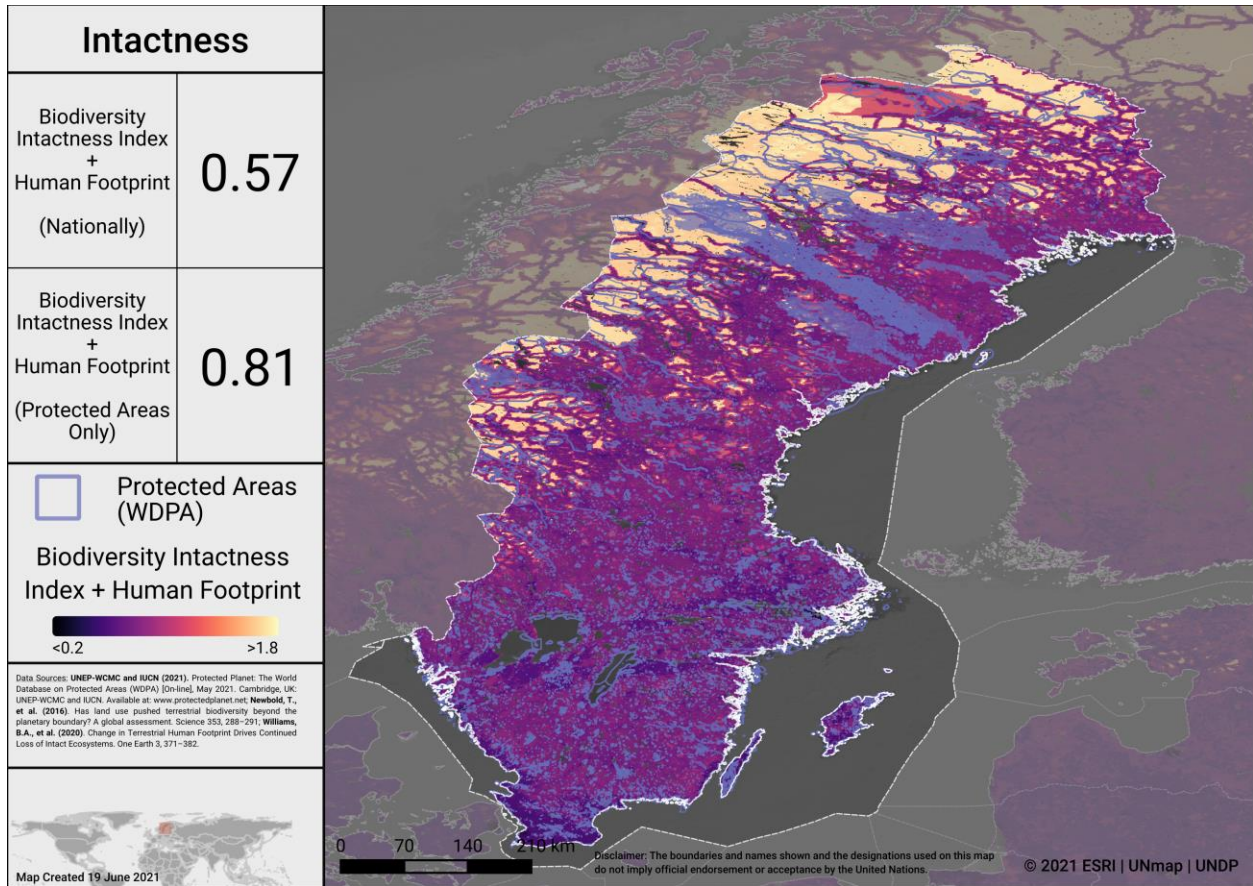
### Potential OECMs

Sweden is starting to identify OECMs in collaboration with other national agencies and stakeholders. When they are documented and acknowledged nationally, they will prepare reporting through CDDA to WD-OECM.

### 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 Sweden considers where to add new PAs and OECMs, the map below identifies areas in Sweden where intact terrestrial areas are not currently protected. Focus on relatively intact areas, while addressing the elements in the following sections, could be considered when planning new PAs or OECMs.

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Intactness in Sweden

To explore more on intactness visit the UN Biodiversity Lab: [map.unbiodiversitylab.org](http://map.unbiodiversitylab.org).

## ECOLOGICAL REPRESENTATIVENESS – TERRESTRIAL & MARINE

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).

Sweden has 4 **terrestrial** ecoregions. Out of these:

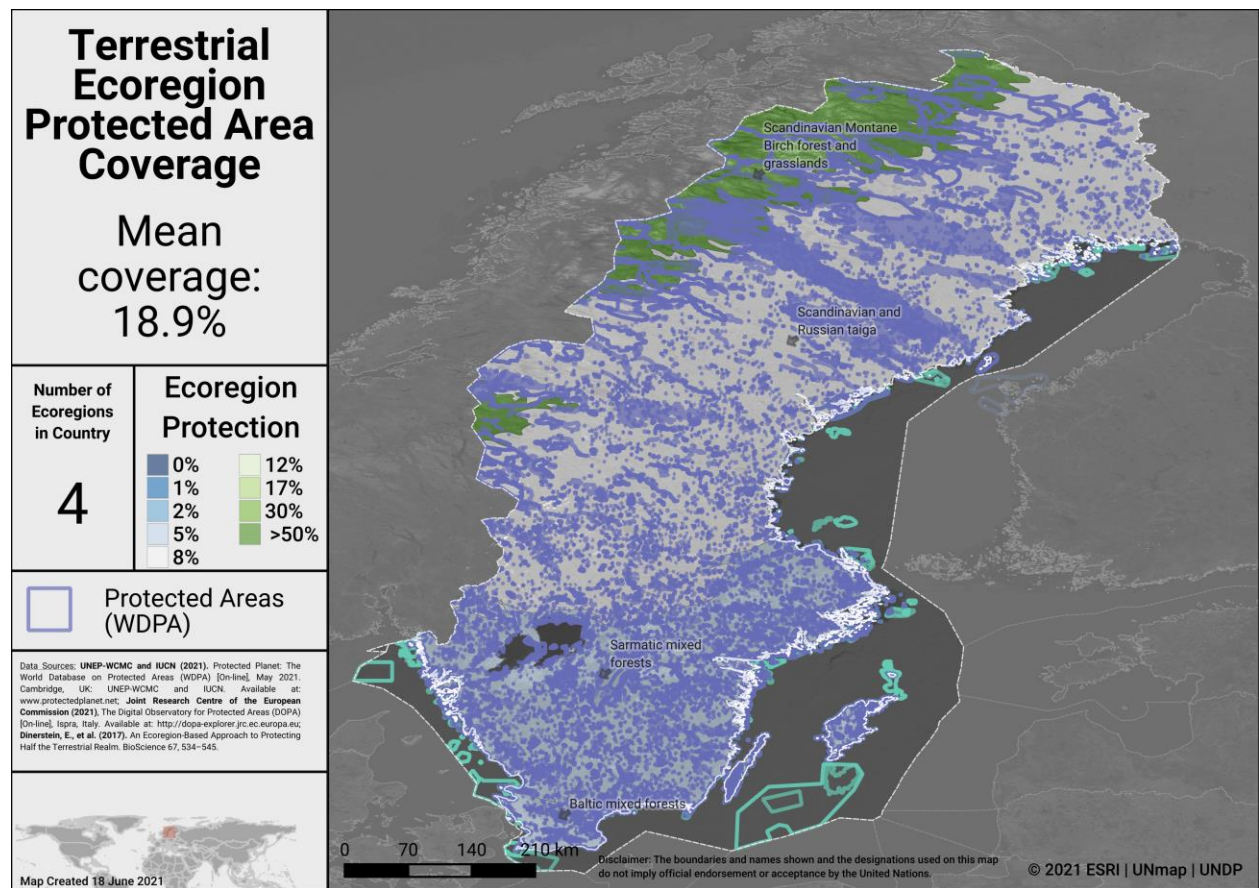
- All 4 ecoregions have at least some coverage from PAs and OECMs.
- 1 ecoregion has at least 17% protected within the country.
- The average coverage of terrestrial ecoregions is 18.9%.

Sweden has 2 **marine** ecoregions and 1 **pelagic province**. Out of these:

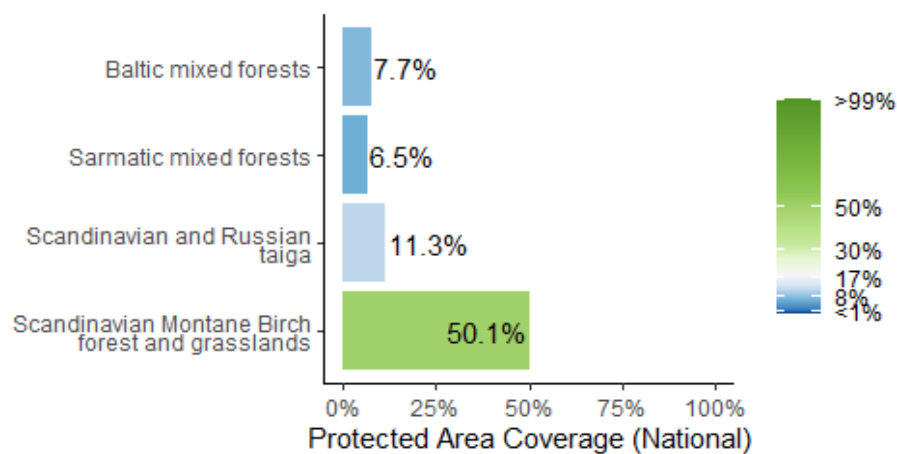
- All (2 marine ecoregions and 1 pelagic province) have at least 10% protected within Sweden's exclusive economic zone (EEZ).
- The average coverage of marine ecoregions is 20.9% and the coverage of the 1 pelagic province is 75.3%.

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

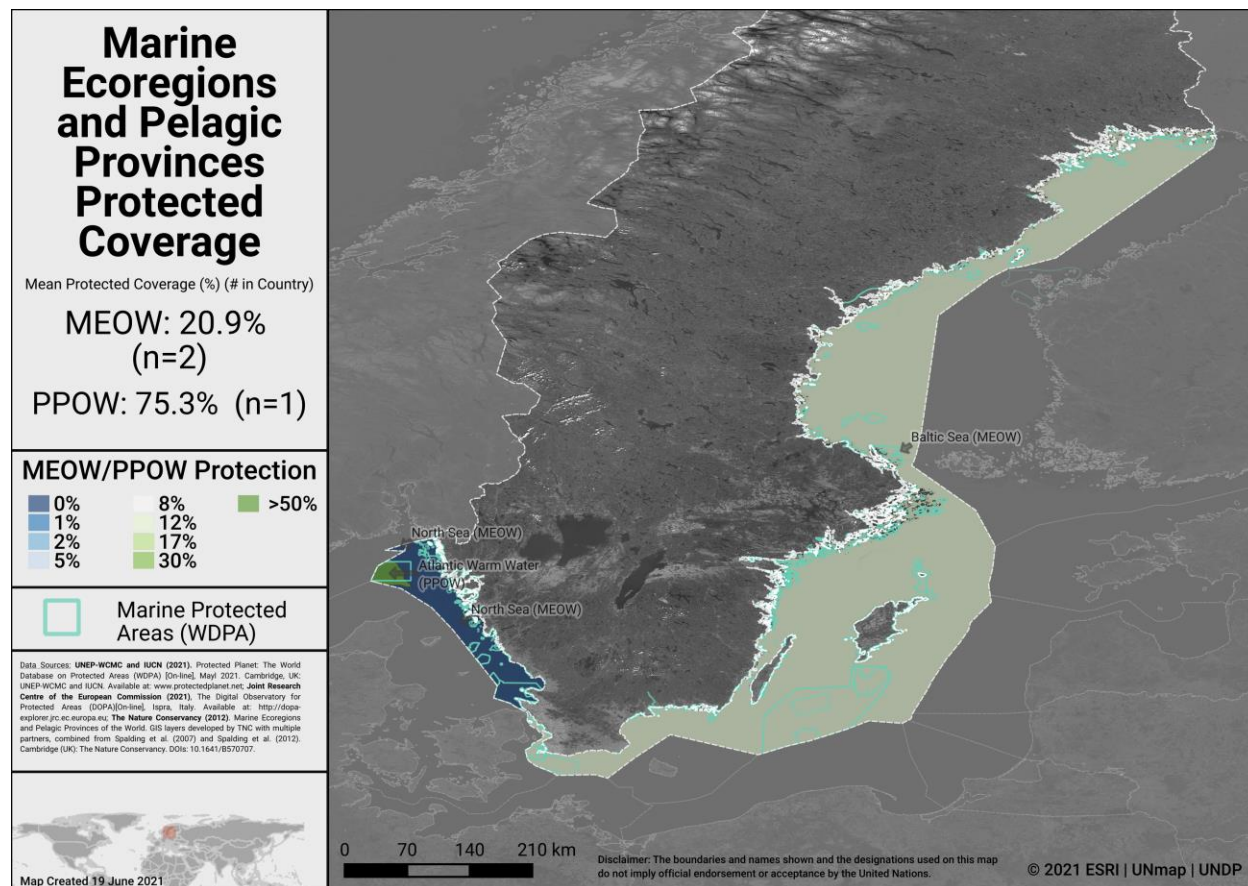




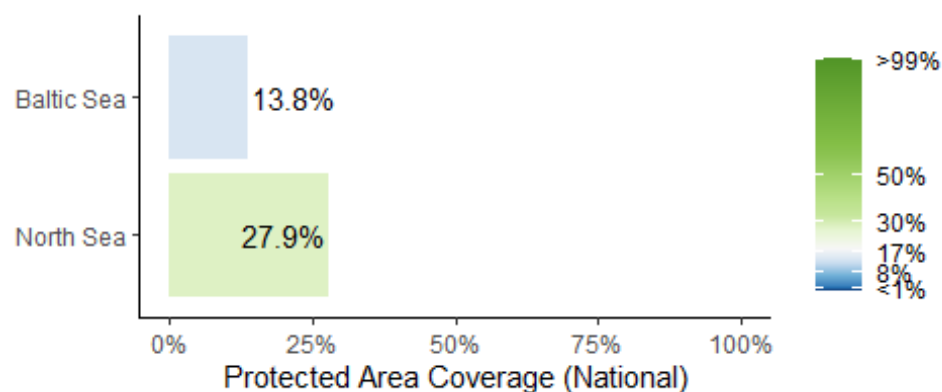
Terrestrial ecoregions in Sweden



Terrestrial ecoregions of the World (TEOW) in Sweden



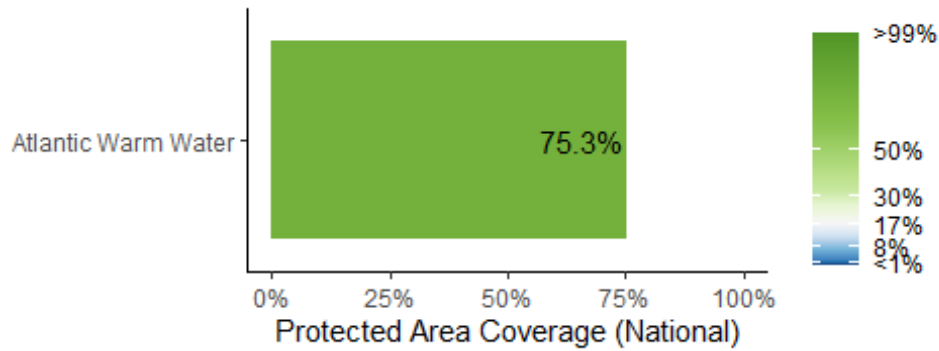
Marine ecoregions and pelagic provinces



Marine Ecoregions of the World (MEOW) in Sweden







Pelagic Provinces of the World (PPOW) in Sweden

### Opportunities for action

There is opportunity for Sweden to increase protection in terrestrial and marine ecoregions that have lower levels of coverage by PAs or OECMs, and to focus on effective management for those that already have higher coverage.

## 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](http://www.keybiodiversityareas.org).

Sweden has **84** Key Biodiversity Areas (KBAs).

- Mean percent coverage of all KBAs by PAs and OECMs in Sweden is **59.4%**.
- **31** KBAs have full (>98%) coverage by PAs and OECMs.
- **48** KBAs have partial coverage by PAs and OECMs.
- **5** KBAs have no (<2%) coverage by PAs and OECMs.

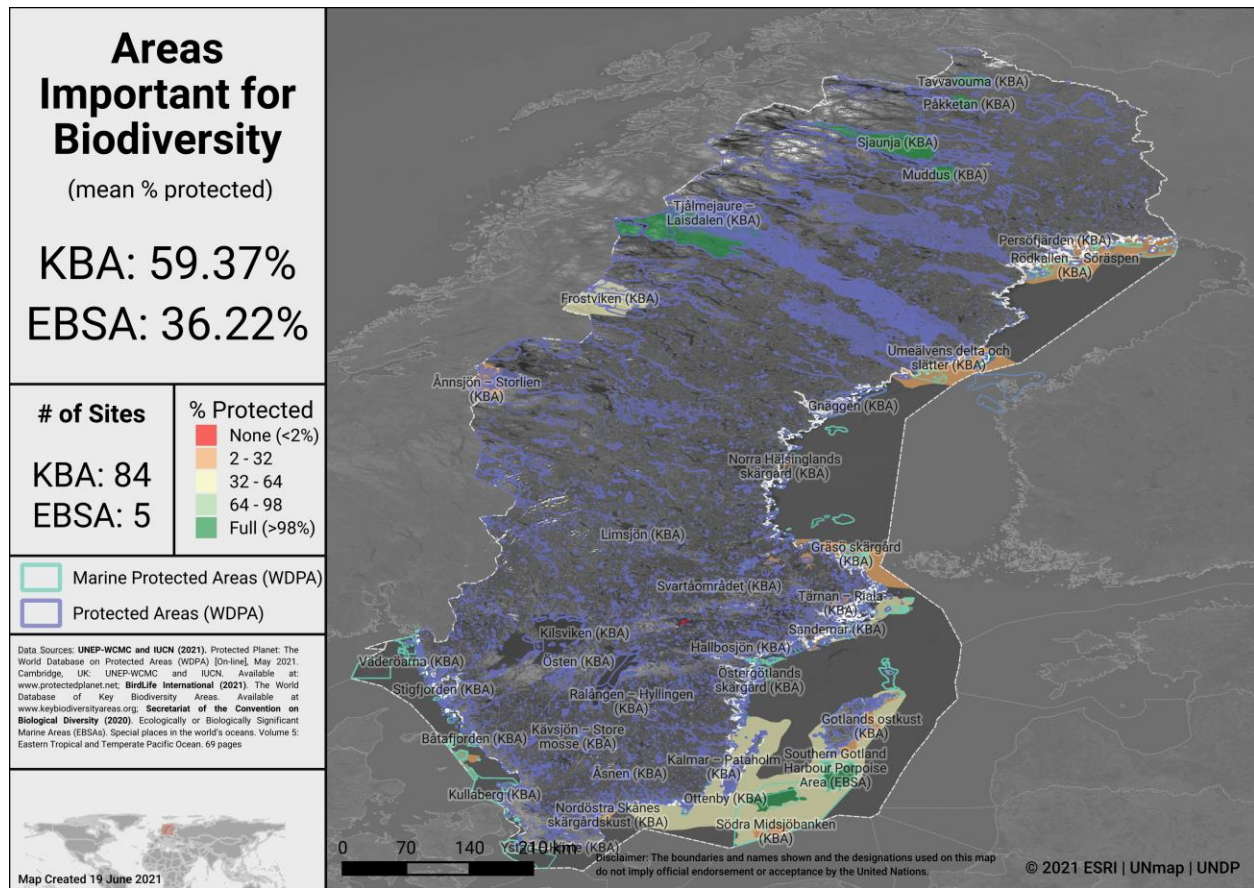
### Ecologically or Biologically Significant Marine Areas (EBSAs)

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

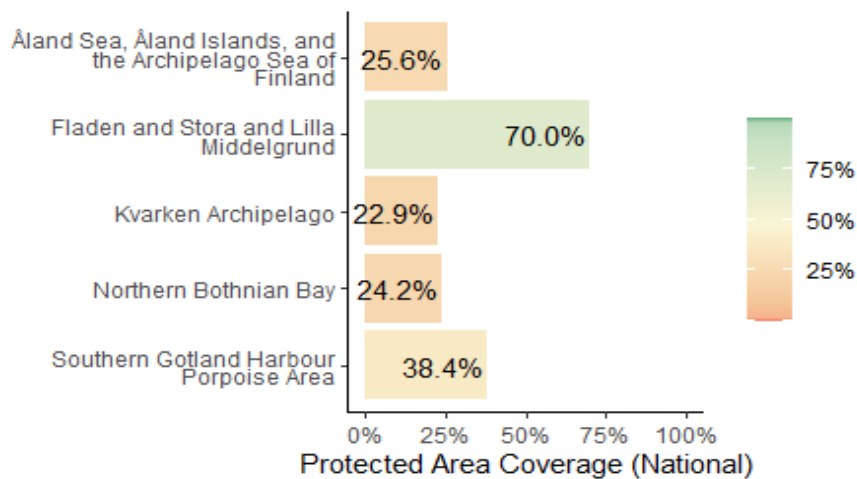
There are 5 EBSAs with some portion of their extent within Sweden's EEZ, all of which have at least partial coverage from PAs and OECMs.

*Nationally, Sweden includes a broader spectrum of ecosystems in national API's when examining the conservation of areas important for biodiversity.*





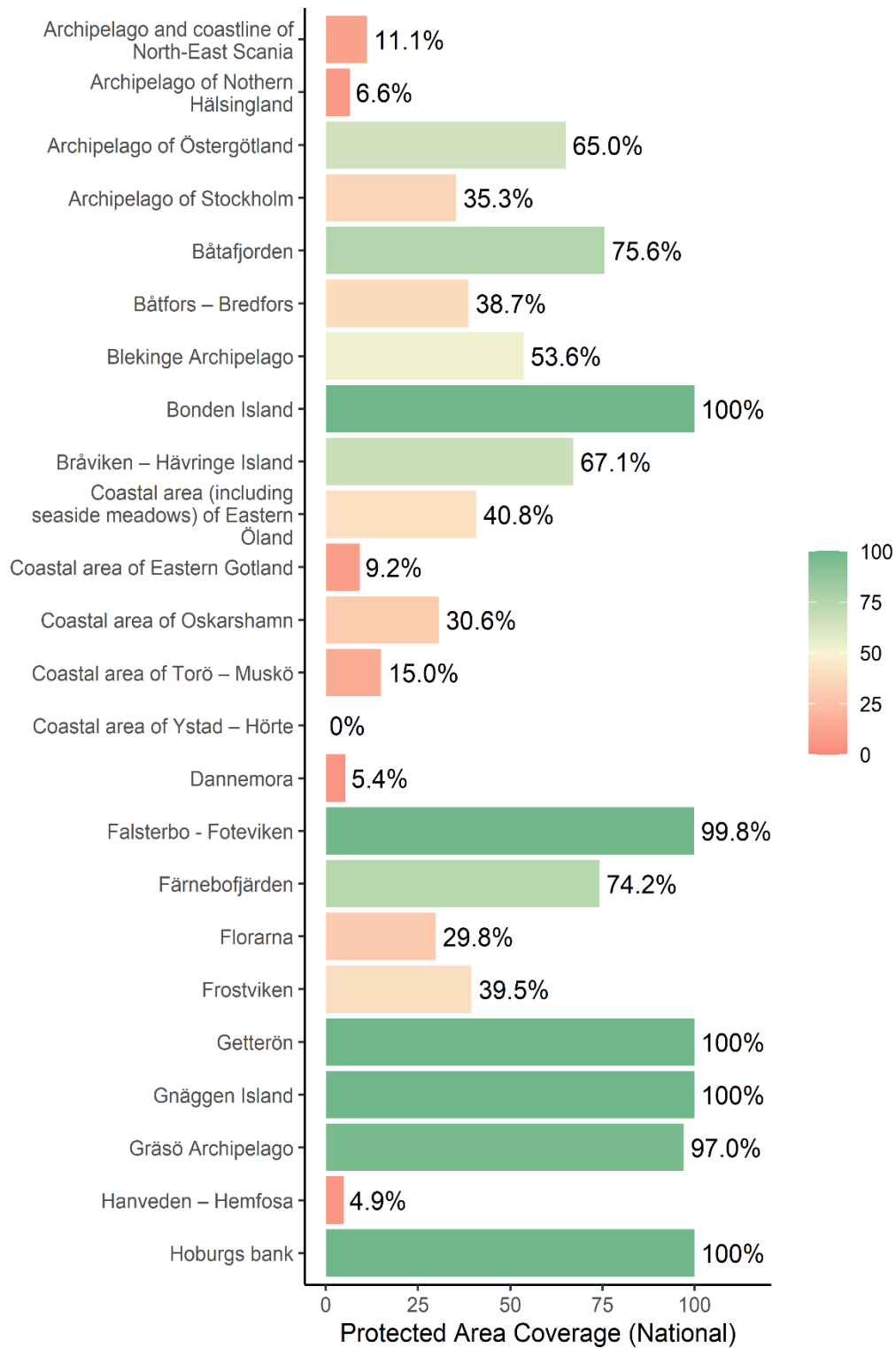
Areas Important for Biodiversity in Sweden



Ecologically or Biologically Significant Marine Areas (EBSAs) in Sweden

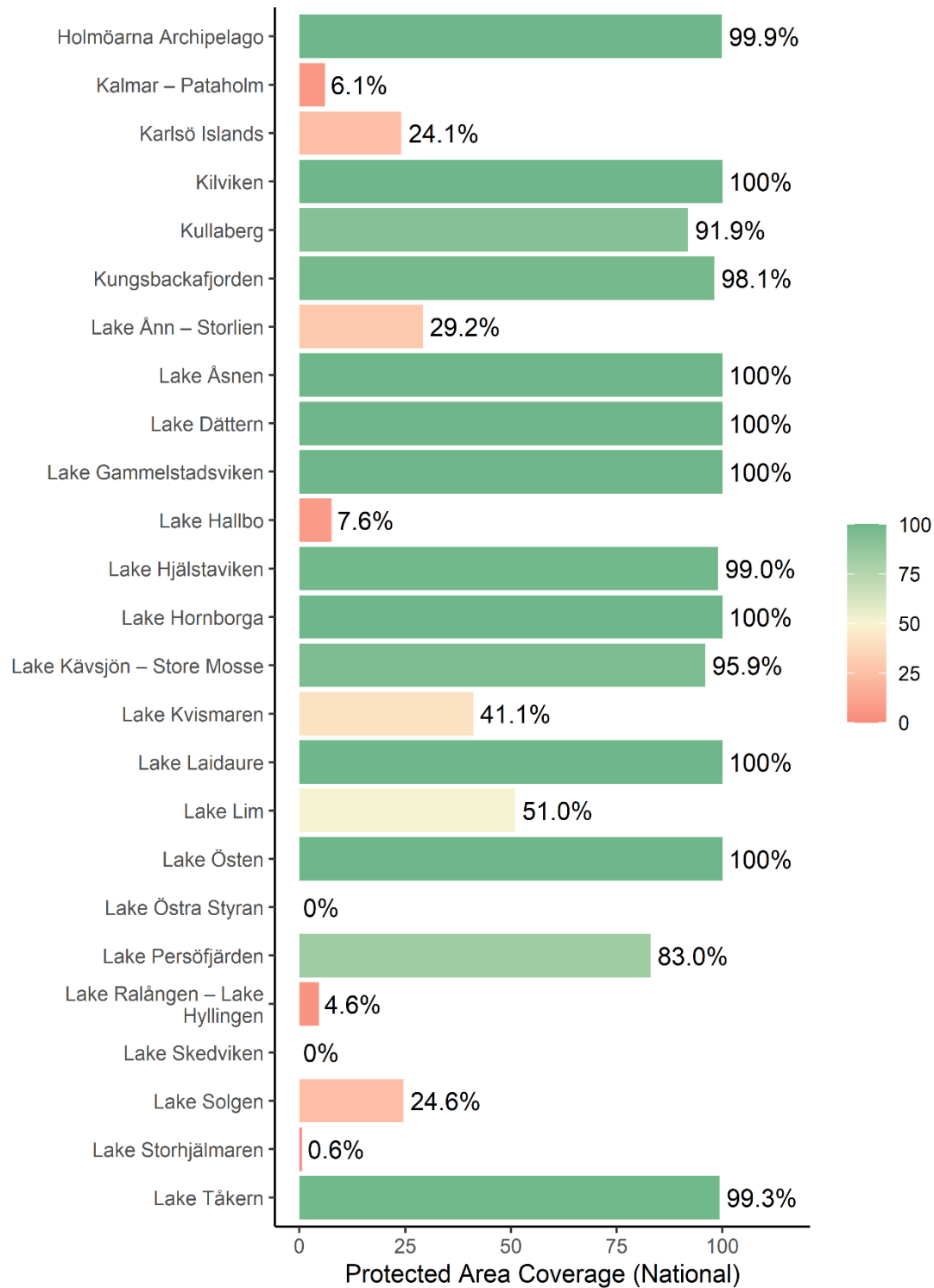


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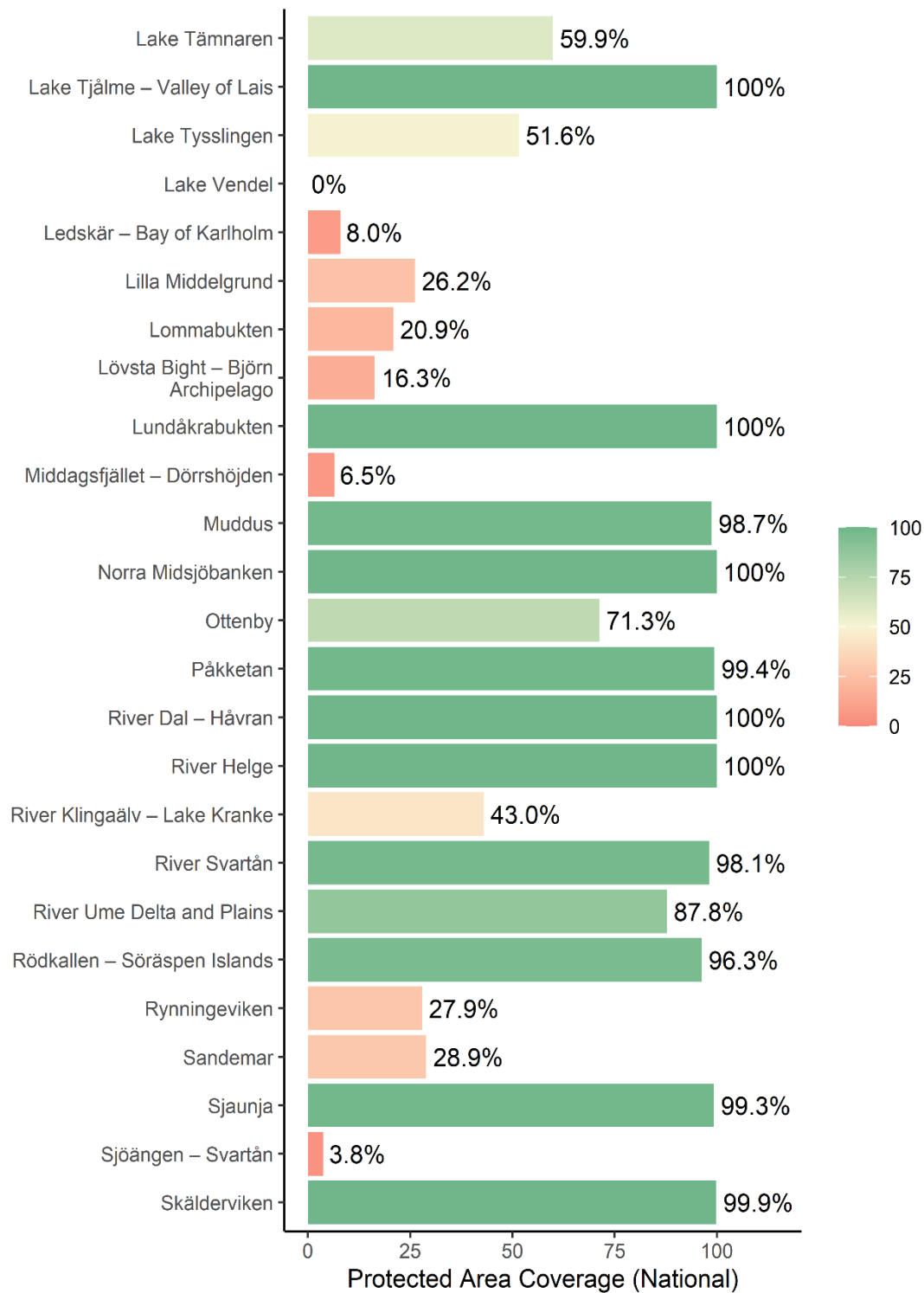
Key Biodiversity Area Coverage (KBA) in Sweden

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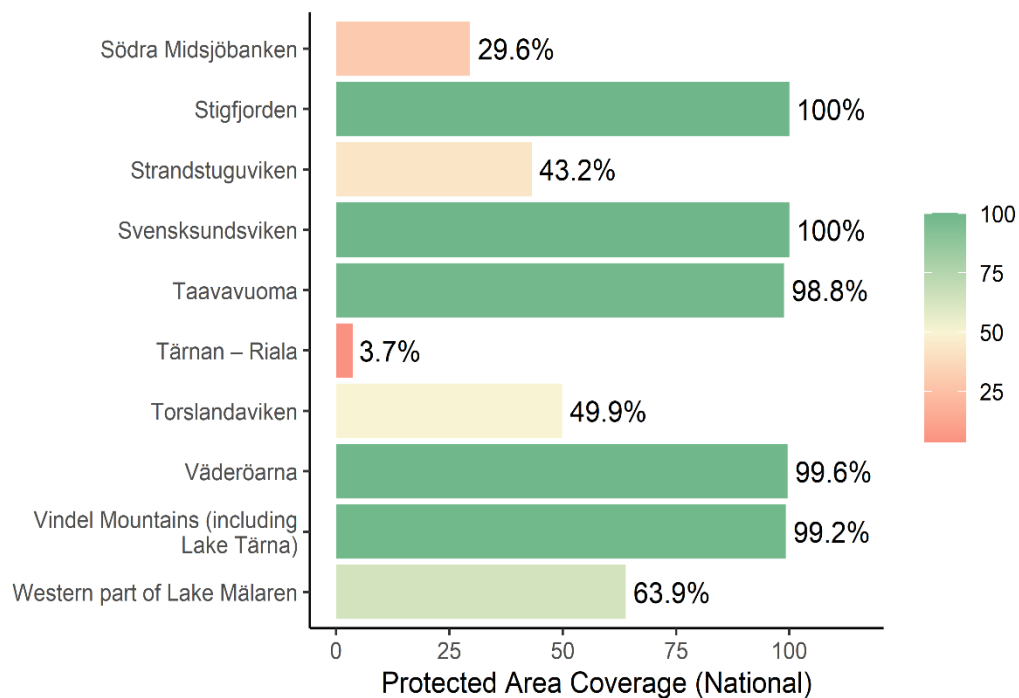


Key Biodiversity Area Coverage (KBA) in Sweden

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Key Biodiversity Area Coverage (KBA) in Sweden



Key Biodiversity Area Coverage (KBA) in Sweden

### Opportunities for action

There is opportunity for Sweden 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.



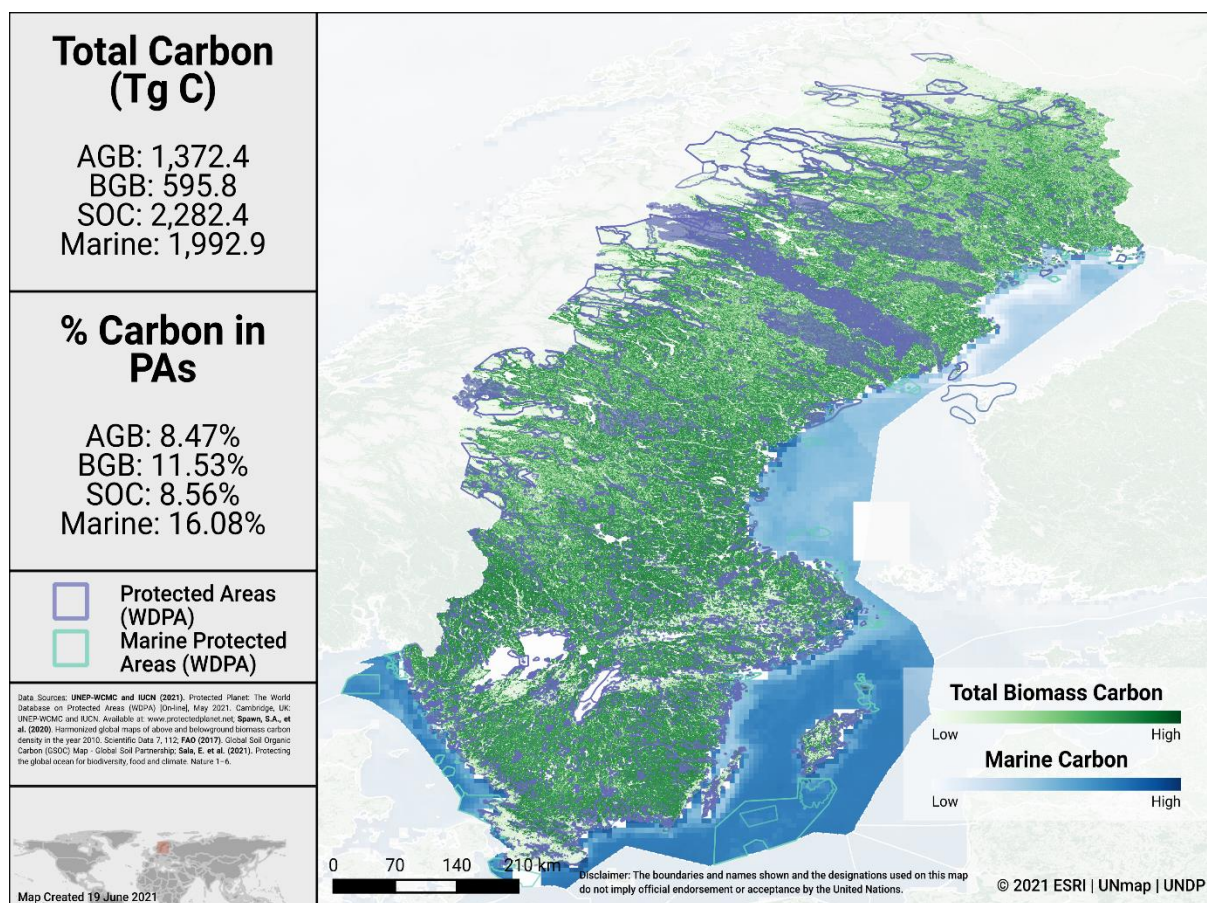
## AREAS IMPORTANT FOR ECOSYSTEM SERVICES

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 Sweden and the percent of carbon in protected areas. The total carbon stocks is 1,372.4 Tg C from aboveground biomass (AGB), with 8.5% in protected areas; 595.8 Tg C from below ground biomass (BGB), with 11.5% in protected areas; 2,282.4 Tg C from soil organic carbon (SOC), with 8.6% in protected areas; and 1,992.9 Tg C from marine sediment carbon, with 16.1% in protected areas.



Carbon Stocks in Sweden

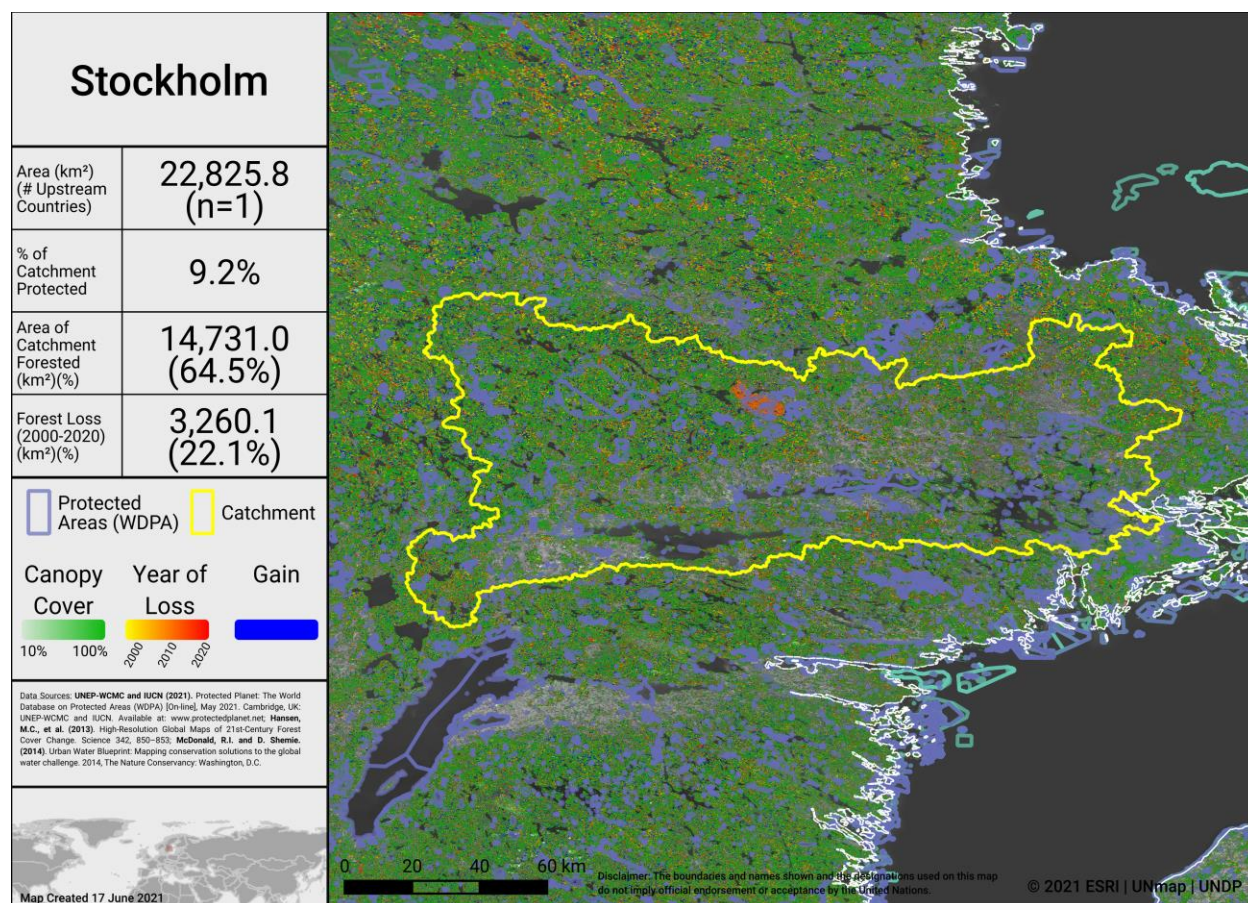


Water

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



Water supply area for the city of Stockholm

### Opportunities for action

For carbon, there is opportunity for Sweden to increase PA and OECM coverage in both marine and terrestrial areas with high carbon stocks, as identified in the map on the previous page. 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 Sweden was 8.4%.

### PARC-Connectedness Index

In 2019, as assessed using the PARC-Connectedness Index (values ranging from 0-1, indicating low to high connectivity), connectivity in Sweden is 0.29. This represents no significant change from 2010.

### Corridor case studies

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

### Opportunities for action

There is opportunity for 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 Sweden reported in the WDPA have the following governance types:

- 99.5% are governed by **governments**
  - 99.5% by federal or national ministry or agency
  - 0.0% by sub-national ministry or agency
  - 0.0% by government-delegated management
- 0.0% are under **shared** governance
- 0.0% are under **private** governance
- 0.0% are under **IPLC** governance
- 0.5% **do not** report a governance type
  - (All are regional or international designations)

### OECMs

As of May 2021, there are **0** OECMs in Sweden 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 Sweden (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 Sweden (see Kothari et al., 2012 and the [ICCA Registry](#) for further details).

### Other Indigenous lands

Lands managed and/or controlled by Indigenous Peoples cover an area of 244,752.0 km<sup>2</sup>, of which 190,707.0 km<sup>2</sup> falls outside of formal protected areas. Indigenous lands with a human footprint less than 4 (considered as 'natural landscapes') cover an area of 163,371.0 km<sup>2</sup> (for details on analysis see Garnett et al., 2018).

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

Boundaries of the lands Indigenous Peoples manage or have tenure rights over come from: Nordregio. Reindeer herding area & districts (Nordregio, 2015).



### Opportunities for action

Explore opportunities for governance types that have lower representation, for Sweden this could relate to governance by Indigenous Peoples and/or local communities (IPLC), shared governance, etc.

There is also opportunity for Sweden 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.

*Nationally, Sweden does not use this data/method to track progress on management effectiveness.*

### Protected area management effectiveness (PAME) assessments

As of May 2021, Sweden has 20,713 PAs reported in the WDPA; of these PAs, 12 (0.1%) have management effectiveness evaluations reported in the global database on protected area management effectiveness (GD-PAME).

- 2.4% (10,548 km<sup>2</sup>) of the terrestrial area of the country is covered by PAs with completed management effectiveness evaluations.
  - 16.2% of the area of terrestrial PAs have completed evaluations.
- 0.7% (1,078 km<sup>2</sup>) of the marine area of the country is covered by PAs with completed management effectiveness evaluations.
  - 4.5% of the area of marine PAs have completed evaluations.

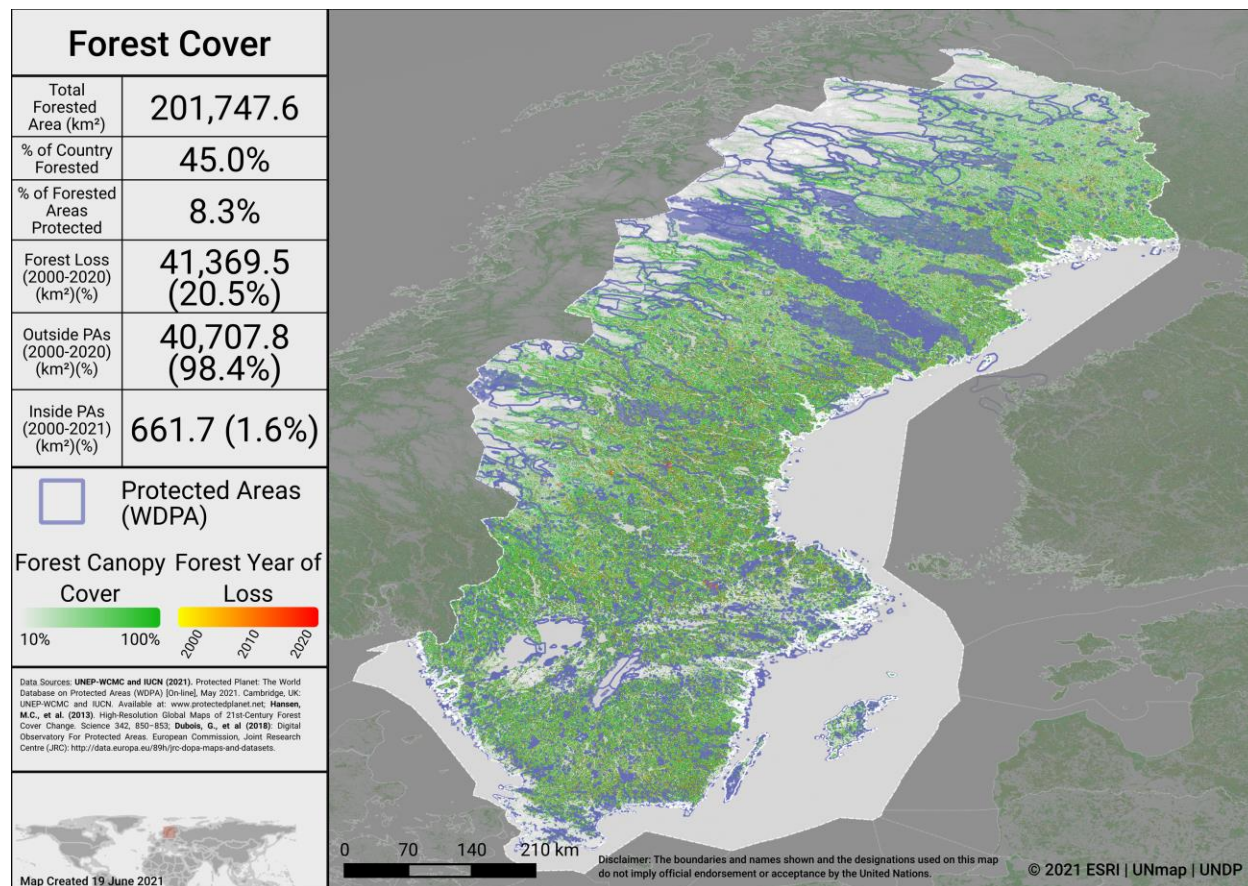
The 60% target for completed management effectiveness assessments (per COP Decision X/31) **has not** been met for terrestrial PAs and **has not** been met for marine PAs.

As of May 2021, there are 0 OECMs in Sweden 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 Sweden cover approximately 45.0% of the country, an area of 201,747.6 km<sup>2</sup>. Approximately 8.3% (16,654.8 km<sup>2</sup>) of this is within the protected area estate of Sweden. Over the period 2000-2020 loss of forest cover amounted to over 41,369.5 km<sup>2</sup>, or 9.2% of the country (20.5% of forest area), of which 661.7 km<sup>2</sup> (1.6% of forest) occurred within protected areas. The map below shows how forest cover has changed in Sweden 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 Sweden

#### Opportunities for action

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

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### NATIONAL BIODIVERSITY STRATEGY AND ACTION PLANS (NBSAPs)

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

*The milestone target on the protection of land areas, freshwater areas and marine areas is that at least 20 per cent of Sweden's land and freshwater areas, and 10 per cent of Sweden's marine areas, by 2020 contribute to achieving national and international biodiversity targets. This will take place through protection or other conservation in areas of particular importance to biodiversity or ecosystem services. This conservation will take place with ecologically representative and well-connected systems, which include reserves, other effective area-based protective measures or environmentally sound usage. These systems are to be well integrated in the surrounding landscape and managed in an efficient and inclusive way*

This NBSAP **did** include a quantitative target for **terrestrial** PAs or OECMs.

- As of May 2021 (based on the WDPA/WD-OECM) has the target been met: **NO**
- Accounting for other projects, actions and commitments, if this target is met, coverage in the country will increase by **24,891 km<sup>2</sup>**.
- 

This NBSAP **did** include a quantitative target for **marine** protected areas or OECMs.

- As of May 2021 (based on the WDPA/WD-OECM) has the target been met: **YES**





## UN OCEAN CONFERENCE VOLUNTARY COMMITMENTS

Voluntary commitments for the UN Ocean Conference are initiatives voluntarily undertaken by governments, the UN system, non-governmental organizations, among other actors—individually or in partnership—that aim to contribute to the implementation of SDG 14 (here we focus in particular on SDG 14.5). The registry of commitments was opened in February 2017, in the lead up to the first UN Ocean Conference (5 to 9 June 2017).

### Ocean Actions improving MPA or OECM coverage:

*#OceanAction13892*: Meeting Sweden’s MPA target [10%], by Sweden (Government).

- Area to be added: 0 km<sup>2</sup> [**already complete**]
- Progress report: Yes, Submitted 10 June 2020. Overall status: On track.
- Further details available at:  
<https://oceanconference.un.org/commitments/?id=13892>.

### Other Ocean Actions

Other Ocean Actions submitted as voluntary commitments for SDG 14.5, will also create benefits for the qualifying elements of Aichi Biodiversity Target 11:

*#OceanAction18361*: Cross-boundary and inter-sectorial solutions for ecosystem-based marine spatial planning: the Symphony method, by Sweden (Government).

- Types of actions involved: ecosystem-based Marine Spatial Planning (maps of pressures, cumulative impacts, etc.).
- Target 11 element addressed: Integration.
- Progress report: Overall status: Completed (June 2020).
- Further details available at:  
<https://oceanconference.un.org/commitments/?id=18361>

*#OceanAction19794*: The Swedish Government intends to implement appropriate and relevant conservation measures regarding fisheries in order to reach conservation objectives in all marine protected areas by 2020. by Sweden (Government).

- Types of actions involved: MPA management and/or enforcement; fisheries regulations in MPA; review and modernize the coastal fisheries legislation.
- Target 11 element addressed: Effectively managed.
- Progress report: Yes (Sept 2018 & June 2020); Overall status = On track.
- Further details available at:  
<https://oceanconference.un.org/commitments/?id=19794>



## OTHER ACTIONS/COMMITMENTS

### Leaders' Pledge for Nature

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

Political leaders participating in the United Nations Summit on Biodiversity in September 2020, representing 88 countries from all regions and the European Union, have committed to reversing biodiversity loss by 2030. By doing so, these leaders are sending a united signal to step up global ambition and encourage others to match their collective ambition for nature, climate, and people with the scale of the crisis at hand.

### High Ambition Coalition for Nature and People

Sweden **has** joined the High Ambition Coalition for Nature and People.

The High Ambition Coalition for Nature and People (HAC) is an intergovernmental group, co-chaired by France and Costa Rica [currently including 65 countries and the European Commission]. Its objective is to support the adoption of a target aiming to protect 30% of the planet's land and 30% of its oceans by 2030 (30x30 target), within the future global framework of the Convention on Biological Diversity (CBD) for the protection of biodiversity, which is to be adopted at the next COP in China this autumn.

### Global Ocean Alliance

Sweden **has** joined the Global Ocean Alliance: 30by30 initiative.

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



## ANNEX I

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### FULL LIST OF TERRESTRIAL ECOREGIONS

| <b>Ecoregion Name</b>                            | <b>Area (km<sup>2</sup>)</b> | <b>% of Global Ecoregion in Country</b> | <b>% of Country in Ecoregion</b> | <b>Area Protected (km<sup>2</sup>)</b> | <b>% Protected in Country</b> |
|--|------------------------------|---|----------------------------------|--|-------------------------------|
| Baltic mixed forests                             | 8,903.2                      | 7.8                                     | 2.0                              | 681.7                                  | 7.7                           |
| Sarmatic mixed forests                           | 121,714.1                    | 14.3                                    | 27.1                             | 7,955.2                                | 6.5                           |
| Scandinavian and Russian taiga                   | 261,145.6                    | 12.0                                    | 58.1                             | 29,588.6                               | 11.3                          |
| Scandinavian Montane Birch forest and grasslands | 50,630.8                     | 20.7                                    | 11.3                             | 25,362.9                               | 50.1                          |



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