

Goal 6: Ensure availability and sustainable management of water and sanitation for all

Target 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.

Indicator 6.6.1: Change in the extent of water-related ecosystems

## Institutional information

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### Organization(s):

Secretariat of the Ramsar Convention on Wetlands

## Concepts and definitions

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### Definition:

**Extent of wetlands:** this term can be defined as the surface area of wetlands. It is measured in km<sup>2</sup> or hectares. It is expected that the surface reported by countries corresponds to the 2017 situation; if not, the reference year should be indicated.

**Change in the extent of wetlands:** this term refers to the percentage change in area of wetlands from a baseline reference. For reporting such change, the previous extent, if known, and the period over which the change has taken place should be specified.

### Concepts:

In order to provide a precise definition of the indicator, it is crucial to provide a definition of “**Water related ecosystems.**”

#### *The Ramsar definition of “wetlands”*

The Ramsar definition is very broad, reflecting the purpose and global coverage of the Convention:

In accordance with Article 1.1 of the Convention,  
*“Wetlands are areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres”.*

In addition, in accordance with Article 2.1, Ramsar Sites  
*“may incorporate riparian and coastal zones adjacent to the wetlands, and islands or bodies of marine water deeper than six metres at low tide lying within the wetlands”.*

#### *The Ramsar system of classifying wetland types*

Many national definitions and classifications of “wetlands” are in use. They have been developed in response to different national needs and take into account the main biophysical features (generally vegetation, landform and water regime, and sometimes also water chemistry such as salinity) and the variety and size of wetlands in the locality or region being considered.

The Ramsar Classification System for Wetland Types, adopted at COP4 in 1990, and amended at COP6 in 1996 (Resolution VI.5) and at COP7 in 1999 (Resolution VII.11) has value as a basic internationally applicable habitat description for sites designated for the Ramsar List of Wetlands of International Importance.

The System (see **Annex 1**) describes the types of wetland covered by each of the wetland type codes. Note that the wetland types are grouped in three major categories: marine/coastal, inland, and human-made wetlands. Within a single Ramsar Site or other wetland, there may be wetland types from two or more of these categories, particularly if the wetland is large.

For the purpose of the Target and Indicator, and based on the National Reports Parties report on the use of the three major categories. Countries also use Ramsar definition that has been internationally agreed under the Convention. The minimum information that should be provided is the total area of wetlands for each of these three categories with an emphasis on inland wetlands or freshwater ecosystems for purpose of indicator 6.6.1 (see table below, the explanations of each wetland type code is in Annex 1).

#### Tabulations of Wetland Type characteristics, Inland Wetlands:

Fresh water	Flowing water	Permanent	Rivers, streams, creeks	M
			Deltas	L
			Springs, oases	Y
		Seasonal/intermittent	Rivers, streams, creeks	N
	Lakes and pools	Permanent	> 8 ha	O
			< 8 ha	Tp
		Seasonal/intermittent	> 8 ha	P
			< 8 ha	Ts

	Marshes on inorganic soils	Permanent	Herb-dominated	Tp	
		Permanent/ Seasonal/intermittent	Shrub-dominated	W	
			Tree-dominated	Xf	
		Seasonal/intermittent	Herb-dominated	Ts	
	Marshes on peat soils	Permanent	Non-forested	U	
			Forested	Xp	
	Marshes on inorganic or peat soils	High altitude (alpine)		Va	
		Tundra		Vt	
	Saline, brackish or alkaline water	Lakes	Permanent		Q
			Seasonal/intermittent		R
Marshes & pools		Permanent		Sp	
		Seasonal/intermittent		Ss	
Fresh, saline, brackish or alkaline water	Geothermal			Zg	

	Subterranean	Zk(b)
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## Rationale:

The Ramsar Convention on Wetlands is the Intergovernmental treaty that provides the framework for the Conservation and wise use of wetlands and their resources. The Convention was adopted in 1971 and came into force in 1975. Since then 170 Countries, representing almost 90% on UN member states, from all the world's geographic regions have acceded to become Contracting Parties under the Convention.

At its 52nd meeting, in 2016, the Standing Committee of the Ramsar Convention agreed that Parties would include in their national reports for the 13th meeting of the Conference of the Parties, which have been submitted in January 2018, data on the “extent” of wetlands. This requirement provides an intergovernmental mechanism to obtain verified data that clearly contribute to Indicator 6.6.1 on wetland extent, but also to collect information for Target 15.1 which consider other types of ecosystems.

The indicator provides a measure of the relative extent of inland wetlands in a country. It follows the rationale of the forest indicator (Indicator 15.1.1). The availability of accurate data on a country's wetland extent based on the country's wetland inventory is crucial for the decision making regarding policies, restoration of critical wetlands or designation under national or international management or protected area categories.

Changes in the wetland extent reflect wetland loss and degradation for land use changes or for other uses and may help identify unsustainable practices from different sectors.

## Comments and limitations:

The 1999 review of the state of wetland inventory worldwide (*Global review of wetland resources and priorities for wetland inventory* - GRoWI), which was undertaken for the Ramsar Convention, identified not only the major gaps in the extent to which wetland inventory had been undertaken, but also found that for the inventories which had been made it was frequently very hard to trace their existence, to identify their purpose, scope and coverage, and/or to access the information contained in them.

In the light of these findings and to help address this lack of access by those who need to use wetland inventory for a wide range of Convention implementation purposes, the Convention's Scientific & Technical Review Panel (STRP) developed a standard model for wetland inventory metadata (i.e., data about the characteristics of a wetland inventory, rather than the inventory data itself) in order to facilitate those who have inventories in making the existence and availability of these more publicly accessible.

In 2002, several limitations were identified (Ramsar COP8) in the use of EO for routinely deriving wetland information. These included the cost of the technology, the technical capacity needed to use the data, the unsuitability of the data available for some basic applications (in particular in terms of spatial resolution), the lack of clear, robust and efficient user-oriented methods and guidelines for using the technology, and a lack of solid track record of successful case studies that could form a basis for operational activities.

Historical optical data is available from Landsat and Spot missions; however, persistent cloud cover in certain regions renders much of these data unusable. Distinguishing between permanent and temporary surface water and wetlands can therefore be difficult considering the available historical data. It is further noted that for complex environments with different wetland types *in situ* data or

local knowledge is critical to support the analysis of the EO data, and is sometimes the only way to obtain information on certain wetland types.

Another limitation is that some countries are in the process of update or complete their national wetlands inventories in others are still gaps or is difficult to access the available information.

Despite the above limitations, the use of the measure of extent of wetlands will respond to the indicator and will allow to having a practical mechanism in the short term to track the status of water related ecosystems with robust data and foster action for the conservation of these important ecosystems.

## Methodology

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### Computation method:

Wetland area (Km<sup>2</sup> or ha, reference year)/ Change in the extent of wetlands (water-related ecosystems over time) a baseline reference and year.

Based upon the national wetland inventory (complete or partial) countries provide a baseline figure in square kilometres for the extent of wetlands (according to the Ramsar definition) for the year 2017. The minimum information that should be provided is the total area of wetlands for each of the three major categories; “marine/coastal”, “inland” and “human-made.

If the information is available countries indicate the % of change in the extent of wetlands over the last three years. If the period of data covers more than three years, countries provide the available information, and indicate the period of the change. For reporting such change, the previous extent, if known, and the period over which the change has taken place should be specified.

This indicator can be aggregated to global or regional level by adding all country values globally or in a specific region.

### Treatment of missing values:

- *At country level:*

For countries where no information on wetland inventories was provided to the Ramsar Convention on Wetlands Secretariat as part of their National Reports to COP13 (16% of countries) a report is in preparation by the Ramsar Secretariat using existing information from previous assessments and literature search.

- *At regional and global levels:*

As indicated above

### Regional aggregates:

Since information is available for all countries, regional and global estimates are produced by summation.

### Sources of discrepancies:

The national figures are reported by the countries themselves following standardized format for the National Reports for the COPs that included definitions and reporting years, thus eliminating any discrepancies between global and national figures. The reporting format ensures that countries provide the full reference for original data sources as well as national definitions and terminology.

## **Methods and guidance available to countries for the compilation of the data at the national level:**

Countries under the Ramsar Convention provide all data in the form of a country report following a standard format approved by the Standing Committee, which includes the original data and reference of wetland inventories as the main source of information.

Detailed methodology and guidance on how to provide the data on extent for indicator 6.6.1 in their National Reports and to use Ramsar definition and classification is found in the document “Guidance on information on national wetland extent, to be provided in Target 8 National Wetlands Inventory of the Ramsar National Report for COP13”.

The Ramsar Convention on Wetlands has taken many steps to ensure the wise use and conservation of wetlands globally. This has included the development and promotion of guidance and best practice tools for the inventory, assessment and monitoring of change in wetlands with a particular emphasis in recent years on the application of an increasing number of satellite-based remote sensing approaches (Davidson & Finlayson 2007; Mackay et al. 2009; Ramsar Secretariat 2010a). This has become necessary as there is an increasing demand for information that can be readily used by wetland managers to help stem the ongoing loss and degradation of wetlands.

The utility of different remote sensing datasets for wetland inventory, monitoring and assessment is well established, in particular through the provision of site based (Land Use Land Cover (LULC)) maps characterising a particular ecosystem, to the analysis of time series data (remote sensing datasets collected consistently over a particular time period) to determine changes.

The availability and accessibility of EO datasets suitable for addressing the information needs of the Ramsar Convention and wetland practitioners has increased dramatically in the recent past; increasing capabilities in terms of spatial, temporal and spectral resolution of the data have enabled more efficient and reliable monitoring of the environment over time at global, regional and local scales.

The Scientific and Technical Review Panel of the Convention is working in a Ramsar Technical Report on “Best practice guidelines for the use of Earth Observation for wetland inventory, assessment and monitoring: An information source for wetland managers provided by the Ramsar Convention for Wetlands”. The Ramsar Convention and EO based approaches build on those previously undertaken on the use of EO technologies for implementation of the Convention (Ramsar 2002; Davidson & Finlayson 2007; Mackay et al. 2009) and are placed within the conceptualisation of wetland inventory, assessment and monitoring that were incorporated into the IF-WIAM (Ramsar Secretariat 2010b).

The purpose of the report is to provide an overview of the application of EO technologies to inform wetland managers and practitioners, and stakeholders, including those from related sectors, such as protected area managers and wetland education centre staff (Ramsar Convention 2015) about “best practice” use of EO technologies, taking into account requirements and recommendations from the Convention.

EO provides an effective means for periodic mapping and monitoring over regional to global scales. It should, however, not be expected that global datasets, can achieve the same high level of accuracy everywhere as a local scale map derived through ground surveys and the use of finer resolution (aerial, drones) geospatial data.

Although mapping of land cover and land uses are one of the most common uses of EO data, there are still challenges in assessing the current status and changes in wetlands over time. Monitoring historical trends and changing patterns of wetlands is complicated by the lack of medium to high-resolution data in particular prior to 2000.

Despite the ever expanding data archives, improving quality and increasing suitability of EO data for wetland inventory, monitoring and assessment, it is important to note that “ground-truthing” or field based assessments and validation are still a vital component of any work involving EO data, whose occasional omission may still lead to problematic results.

Ramsar partners such as Jaxa and ESA have conducted pilot projects that provide geospatial information to provide changes to Ramsar, national wetland practitioners, decision makers, and NGOs.

Wetland inventory provides the basis for guiding the development of appropriate assessment and monitoring, and is used to collect information to describe the ecological character of wetlands including that used to support the listing of Ramsar sites, as recorded in the Ramsar Information Sheet (Ramsar Secretariat 2012), assessment considers the pressures and associated risks of adverse change in ecological character; and monitoring, which can include both survey and surveillance, provides information on the extent of any change that occurs as a consequence of management actions.

Under the Convention multiple guidelines have been developed to support countries to complete national wetland inventories including the use of metadata (Some of these guidelines are mentioned below).

### ***Ramsar Guidelines***

Ramsar Handbooks: *Handbook 13 Inventory, assessment and monitoring, and Handbook 15 Wetland Inventory* <http://www.ramsar.org/resources/ramsar-handbooks>.

Ramsar Technical Report Low-cost GIS software and data for wetland inventory, assessment & monitoring. [https://www.ramsar.org/sites/default/files/documents/pdf/lib/lib\\_rtr02.pdf](https://www.ramsar.org/sites/default/files/documents/pdf/lib/lib_rtr02.pdf)

Ramsar Technical Report 4: A Framework for a wetland inventory metadatabase [https://www.ramsar.org/sites/default/files/documents/pdf/lib/lib\\_rtr04.pdf](https://www.ramsar.org/sites/default/files/documents/pdf/lib/lib_rtr04.pdf)

Ramsar 2002. The Ramsar Convention on Wetlands, The 8th Meeting of the Conference of the Parties to the Convention on Wetlands, Valencia, Spain, 18-26 November 2002, COP8 DOC. 35, *The use of Earth Observation technology to support the implementation of the Ramsar Convention* [http://www.ramsar.org/sites/default/files/documents/pdf/cop8/cop8\\_doc\\_35\\_e.pdf](http://www.ramsar.org/sites/default/files/documents/pdf/cop8/cop8_doc_35_e.pdf)

Resolution VIII.6 *A Ramsar Framework for Wetland Inventory* <http://www.ramsar.org/document/resolution-viii6-a-ramsar-framework-for-wetland-inventory>

Resolution VI.12 *National Wetland Inventories and candidate sites for listing* [http://www.ramsar.org/sites/default/files/documents/pdf/res/key\\_res\\_vi.12e.pdf](http://www.ramsar.org/sites/default/files/documents/pdf/res/key_res_vi.12e.pdf)

Resolution VII.20 *Priorities for wetland inventory* [http://www.ramsar.org/sites/default/files/documents/library/key\\_res\\_vii.20e.pdf](http://www.ramsar.org/sites/default/files/documents/library/key_res_vii.20e.pdf)

Resolution IX.1 *Additional scientific and technical guidance for implementing the Ramsar wise use concept Annex E. An Integrated Framework for wetland inventory assessment and monitoring* [http://www.ramsar.org/sites/default/files/documents/pdf/res/key\\_res\\_ix\\_01\\_annexe\\_e.pdf](http://www.ramsar.org/sites/default/files/documents/pdf/res/key_res_ix_01_annexe_e.pdf)

Resolution X.15 *Describing the ecological character of wetlands and data needs and formats for core inventory: harmonized scientific and technical guidance* [http://www.ramsar.org/sites/default/files/documents/pdf/res/key\\_res\\_x\\_15\\_e.pdf](http://www.ramsar.org/sites/default/files/documents/pdf/res/key_res_x_15_e.pdf)

## Quality assurance:

Once received, the country reports undergo a rigorous review process to ensure correct use of definitions and methodology as well as internal consistency. A comparison is made with past information and other existing data sources. Regular contacts between national correspondents and Ramsar Staff by e-mail and webinars/regional/sub-regional review workshops form part of this review process in order to support country capacities in particular for monitoring purposes.

Missing reports prepared by the Ramsar Secretariat for Indicator 6.6.1 are sent to the respective Ramsar Administrative Authority for validation before finalization and publishing of data. The data are then aggregated at sub-regional, regional and global levels by the Ramsar Secretariat team.

## Data sources

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### Description:

The Ramsar Convention on Wetlands Secretariat has been collecting and analysing data on country implementation since 2000 including information about wetland inventories. This is done at intervals of 3 years that is the cycle of Country reporting under the Convention

The 1999 review of the state of wetland inventory worldwide (*Global review of wetland resources and priorities for wetland inventory - GROWI*), which was undertaken for the Ramsar Convention, identified not only the major gaps in the extent to which wetland inventory had been undertaken, but also found that for the inventories which had been made it was frequently very hard to trace their existence, to identify their purpose, scope and coverage, and/or to access the information contained in them.

Another source of information is the update of the Wetland Extent Trends (WET) Index that was commissioned by the Ramsar Convention Secretariat to WCMC. The Wet Index is an updatable indicator of wetland area trends where there are still gaps of information. However, is not applicable at national level and has been used, as data are not available at national level. This will be fixed with national reports.

In the format for National Report for COP13 the Contracting Parties agreed the inclusion of an indicator on the extent of wetlands and change in the extent (indicator 6.6.1). For COP13, 44% of Contracting Parties have completed national wetlands inventories and 16% of Parties reported that their wetland inventories are in progress. Therefore, all data are provided to the Ramsar Secretariat by countries in the form of a country report following a standard format, which includes the original data and reference sources and descriptions of how these have been used to estimate the extent of wetlands.

### Collection process:

All data are provided by Ramsar Administrative Authorities to the Ramsar Secretariat in the form of country reports of implementation of the Convention based on a standard format that it is been approved by the Standing Committee. The format includes indicators to estimate wetland extent with reference sources.

As indicated in the Quality Assurance section, for remaining countries where no information is provided, a report is prepared by the Ramsar Secretariat using existing information and a literature search. All country reports (including those prepared by the Ramsar Secretariat) are sent to the respective Administrative Authority for validation before finalization.



# Data availability

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## Description:

Data are available for all countries (143) that submitted National Reports for COP13 as well as for previous COPs as indicated below. The data collected include information on wetland inventories and extent. For the missing country data (16%) as indicated in the “Quality assurance section” the Secretariat will prepare in 2018 reports with the available source of information for Indicator 6.6.1 that will be sent to the respective Ramsar Administrative Authorities for validation. The gaps of information will be addressed during 2018 and 2019 to fully report in late 2020.

## Time series:

The Secretariat holds National Report information from COP8 (2002), COP9 (2005), COP10 (2008), COP11 (2012), COP12 (2015) and COP13 (2018) National Reports, in databases which permit an analysis of trends in implementation over time, from the 2002-2005 triennium to 2012-2015 that includes specific indicators such as wetland inventories. However, for wetland extent the data collection has started in 2018.

## Disaggregation:

No further disaggregation of this indicator

# Calendar

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## Data collection:

Data collection process for indicator 6.6.1 has started in 2018 and data collection will take place also in 2019.

## Data release:

Updated data with time series and including year 2020 will be released late 2020.

# Data providers

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Ramsar Administrative Authorities prepare and submit to the Ramsar Secretariat their National Reports on implementation for each Conference of the Parties. Countries with dependent territories prepare more than one report. For the remaining countries where no information is provided, a report is prepared by the Ramsar Secretariat using existing information and a literature search that is validated by the concern countries.

# Data compilers

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Secretariat of the Ramsar Convention on Wetlands: The Secretariat expect to work with UNEP as co-custodian of this indicator and other UN agencies and partners.

## References

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References and links are provide in the section of methods and guidance available to countries for the compilation of the data at the national level.

## Annex 1 Ramsar Wetland Classification

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The codes are based upon the Ramsar Classification System for Wetland Types, as approved by the Conference of the Contracting Parties in Recommendation 4.7 and amended by Resolutions VI.5 and VII.11.

To assist in identification of the correct Wetland Types, the Secretariat has provided below tabulations of some of the characteristics of each Wetland Type, for Marine/Coastal Wetlands and Inland Wetlands.

### Marine/Coastal Wetlands

**A. Permanent shallow marine waters** in most cases less than six metres deep at low tide; includes sea bays and straits.

**B. Marine subtidal aquatic beds;** includes kelp beds, sea-grass beds, tropical marine meadows.

**C. Coral reefs.**

**D. Rocky marine shores;** includes rocky offshore islands, sea cliffs.

**E. Sand, shingle or pebble shores;** includes sand bars, spits and sandy islets; includes dune systems and humid dune slacks.

**F. Estuarine waters;** permanent water of estuaries and estuarine systems of deltas.

**G. Intertidal mud, sand or salt flats.**

**H. Intertidal marshes;** includes salt marshes, salt meadows, saltings, raised salt marshes; includes tidal brackish and freshwater marshes.

**I. Intertidal forested wetlands;** includes mangrove swamps, nipah swamps and tidal freshwater swamp forests.

**J. Coastal brackish/saline lagoons;** brackish to saline lagoons with at least one relatively narrow connection to the sea.

**K. Coastal freshwater lagoons;** includes freshwater delta lagoons.

**ZK(a). Karst and other subterranean hydrological systems,** marine/coastal

**Tabulations of Wetland Type characteristics, Marine / Coastal Wetlands:**

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Saline water	Permanent	< 6 m deep	A
		Underwater vegetation	B
		Coral reefs	C
	Shores	Rocky	D
		Sand, shingle or pebble	E
Saline or brackish water	Intertidal	Flats (mud, sand or salt)	G
		Marshes	H
		Forested	I
	Lagoons		J
	Estuarine waters		F
Saline, brackish or fresh water	Subterranean		Zk(a)
Fresh water	Lagoons		K

## Inland Wetlands

**A. Permanent inland deltas.**

**B. Permanent rivers/streams/creeks;** includes waterfalls.

**C. Seasonal/intermittent/irregular rivers/streams/creeks.**

**D. Permanent freshwater lakes** (over 8 ha); includes large oxbow lakes.

**E. Seasonal/intermittent freshwater lakes** (over 8 ha); includes floodplain lakes.

**F. Permanent saline/brackish/alkaline lakes.**

**G. Seasonal/intermittent saline/brackish/alkaline lakes and flats.**

**Sp. Permanent saline/brackish/alkaline marshes/pools.**

**Ss. Seasonal/intermittent saline/brackish/alkaline marshes/pools.**

**Tp. Permanent freshwater marshes/pools; ponds** (below 8 ha), marshes and swamps on inorganic soils; with emergent vegetation water-logged for at least most of the growing season.

**Ts. Seasonal/intermittent freshwater marshes/pools on inorganic soils;** includes sloughs, potholes, seasonally flooded meadows, sedge marshes.

**U. Non-forested peatlands;** includes shrub or open bogs, swamps, fens.

**Va. Alpine wetlands;** includes alpine meadows, temporary waters from snowmelt.

**Vt. Tundra wetlands;** includes tundra pools, temporary waters from snowmelt.

**W. Shrub-dominated wetlands;** includes shrub swamps, shrub-dominated freshwater marshes, shrub carr, alder thicket on inorganic soils.

**Xf. Freshwater, tree-dominated wetlands;** includes freshwater swamp forests, seasonally flooded forests, wooded swamps on inorganic soils.

**Xp. Forested peatlands;** peat swamp forests.

**Y. Freshwater springs; oases.**

**Zg. Geothermal wetlands.**

**Zk(b). Karst and other subterranean hydrological systems,** inland.

Note: “**floodplain**” is a broad term used to refer to one or more wetland types, which may include examples from the R, Ss, Ts, W, Xf, Xp, or other wetland types. Some examples of floodplain wetlands are seasonally inundated grassland (including natural wet meadows), shrublands, woodlands and forests. Floodplain wetlands are not listed as a specific wetland type herein.

#### **Tabulations of Wetland Type characteristics, Inland Wetlands:**

Fresh water	Flowing water	Permanent	Rivers, streams, creeks	M
			Deltas	L
			Springs,	Y

		oases	
	Seasonal/intermittent	Rivers, streams, creeks	N
Lakes and pools	Permanent	> 8 ha	O
		< 8 ha	Tp
	Seasonal/intermittent	> 8 ha	P
		< 8 ha	Ts
Marshes on inorganic soils	Permanent	Herb-dominated	Tp
	Permanent/ Seasonal/intermittent	Shrub-dominated	W
		Tree-dominated	Xf
	Seasonal/intermittent	Herb-dominated	Ts
Marshes on peat soils	Permanent	Non-forested	U
		Forested	Xp
Marshes on inorganic or peat	High altitude (alpine)		Va

	soils	Tundra	Vt
Saline, brackish or alkaline water	Lakes	Permanent	Q
		Seasonal/intermittent	R
	Marshes & pools	Permanent	Sp
		Seasonal/intermittent	Ss
Fresh, saline, brackish or alkaline water	Geothermal		Zg
	Subterranean		Zk(b)

## Human-made wetlands

1. **Aquaculture** (e.g. fish/shrimp) **ponds**.
2. **Ponds**; includes farm ponds, stock ponds, small tanks (generally below 8 ha).
3. **Irrigated land**; includes irrigation channels and rice fields.
4. **Seasonally flooded agricultural land** (including intensively managed or grazed wet meadow or pasture).
5. **Salt exploitation sites**; salt pans, salines, etc.
6. **Water storage areas**; reservoirs/barrages/dams/impoundments (generally over 8 ha).
7. **Excavations; gravel/brick/clay pits**; borrow pits, mining pools.
8. **Wastewater treatment areas**; sewage farms, settling ponds, oxidation basins, etc.
9. **Canals and drainage channels, ditches**.

**Zk(c). Karst and other subterranean hydrological systems, human-made**

## Related indicators

Linkages with any other Goals and Targets: 15.1.