



EMODnet

 European Marine
Observation and
Data Network

Teachers' Guide Atlas - Hide and Seek Game

European Atlas of the Seas

June 2025



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Introduction to the Teachers' Guide of the Atlas Hide and Seek Game

This PowerPoint presentation is designed to guide teachers through the preparation and completion in the classroom of the Hide and Seek Game developed by the European Atlas of the Seas Team.

The presentation is divided into four parts, corresponding to the four parts of the [game's instructions](#) available in the Atlas Teachers' Corner on the Maritime Forum.

Part 1: Find the hidden images of marine species

Part 2: Complete the table with information about the marine species

Part 3: Learn about marine species in other sea basins

Part 4: Discuss key measures to protect marine species

There are parts of the game where only one answer is correct (Part 1), while others can be answered in multiple ways (Part 2: "Fun fact about this species" , Part 3 and Part 4). For parts where more than one answer can be given, this Teachers' Guide provides you with one way of addressing the question. It is completely up to you, as a teacher, to work with these answers or to let your creativity roam free! Sources of information are provided to support your classroom preparation process.

Have fun!



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A decorative graphic on the left side of the slide, consisting of a white circle and three white curved lines of increasing size, resembling a stylized eye or a signal.

Part 1: Find the hidden images of marine species

Part 1: Find the hidden images of marine species

- **Instruction 1:** The first image is located in the northern part of the **Adriatic Sea**, in Ravenna (Italy), on a starfish nearby the **Natura 2000 site 'Adriatico settentrionale – Emilia-Romagna'**
- **Solution:**



Part 1: Find the hidden images of marine species

- **Instruction 1:** The first image is located in the northern part of the **Adriatic Sea**, in Ravenna (Italy), on a starfish nearby the **Natura 2000 site 'Adriatico settentrionale – Emilia-Romagna'**
- **Solution:**

European Maritime Day in My Country 2025 ✕

Event Title: **Fishery Resources and Threatened Species: Challenges and Solutions for a Sustainable Future**

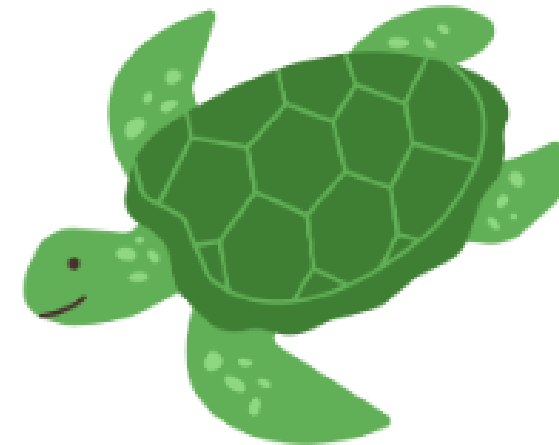
Event Category: **Conferences, seminars**

Country: **Italy**

Event Date: **11/04/2025**

Nature of the event: **Physical event**

Organiser: **Italian Coast Guard - Ravenna**



Turtle

Part 1: Find the hidden images of marine species

- **Instruction 2:** The second image is located in the **Tyrrhenian Sea**, along the coast of Tuscany in Italy, in the **Natura 2000** site 'Tutela del Tursiops truncatus'
- **Solution:**



Part 1: Find the hidden images of marine species

- **Instruction 2:** The second image is located in the **Tyrrhenian Sea**, along the coast of Tuscany in Italy, in the **Natura 2000** site ‘**Tutela del Tursiops truncatus**’
- **Solution:**

Marine Natura 2000 sites (1 of 4)

Country: **Italy**

Site code: **IT5160007**

Site name: **Isola di Capraia - area terrestre e marina**

Type: **SPA (Special Protection Areas)**

Directive:

<http://ec.europa.eu/environment/nature/legislation/birdsdi>

Size (in ha): **18403.0000000**



Dolphin

Part 1: Find the hidden images of marine species

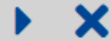
- **Instruction 3:** The third image is located in the **Balearic Sea** along the coast of Spain, nearby the **Natura 2000 site 'Canal de Menorca'**
- **Solution:**



Part 1: Find the hidden images of marine species

- **Instruction 3:** The third image is located in the **Balearic Sea** along the coast of Spain, nearby the **Natura 2000 site 'Canal de Menorca'**
- **Solution:**

European Maritime Day in My Country 2025 (1 of 3)



Event Title: **Ocean of Peace Art Exhibition**

Event Category: **Education and artistic activities for school children**

Country: **Spain**

Event Date: **02/06/2025**

Nature of the event: **Hybrid event (physical & virtual)**

Organiser: **CEIP Na Caragol Public School**

Website:

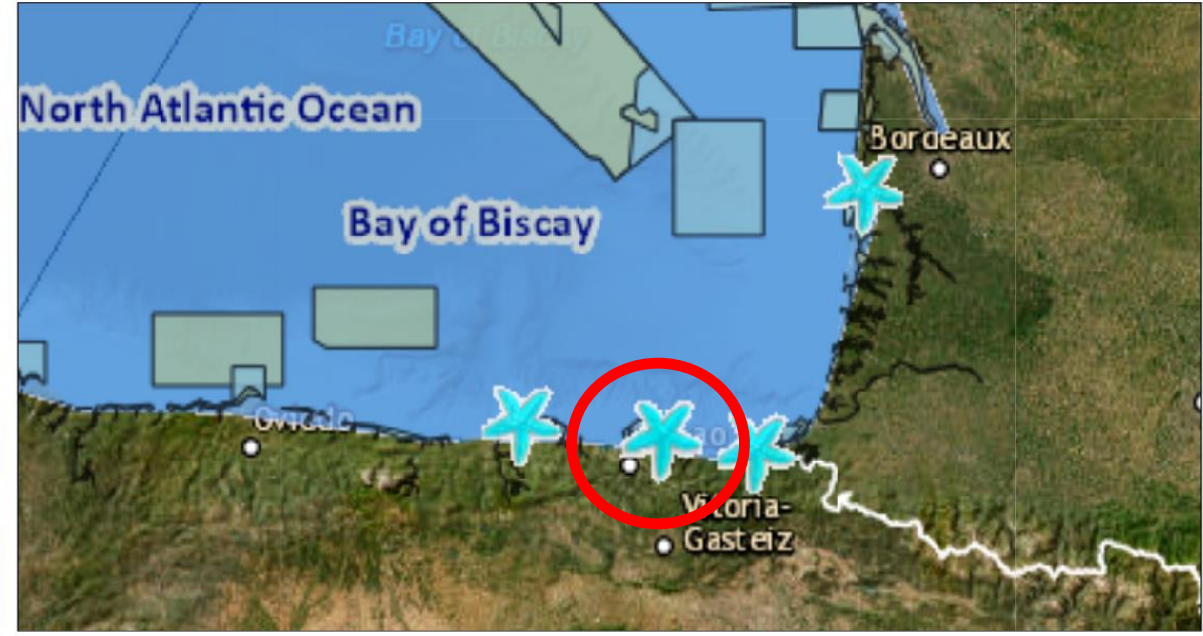
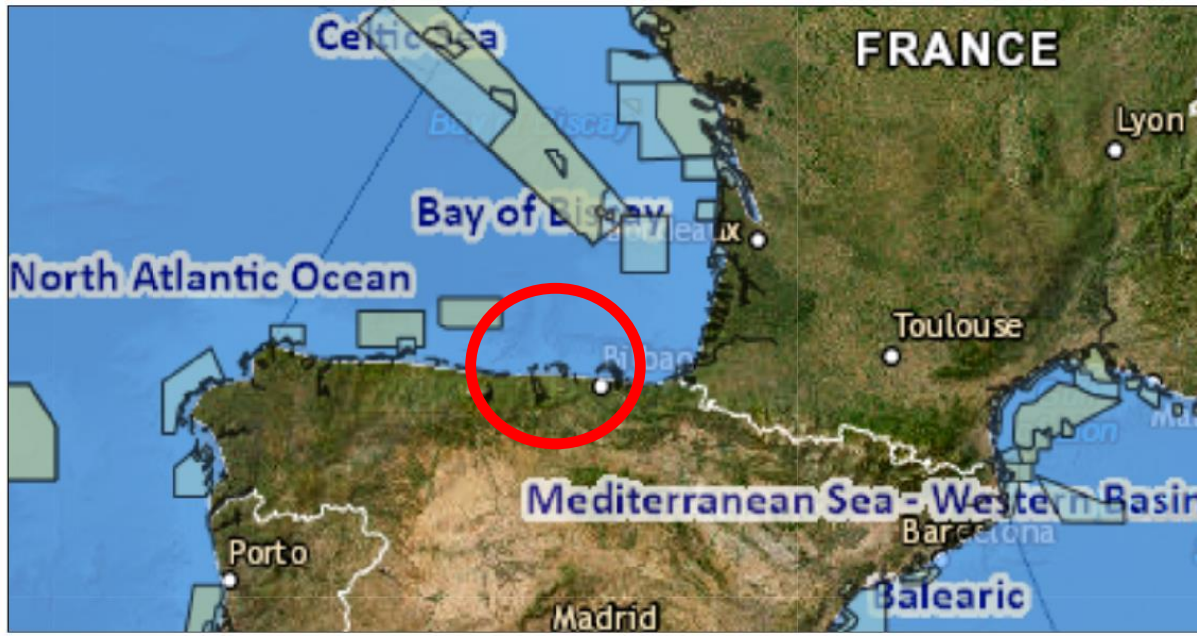
<https://sites.google.com/cpnacaragol.es/wwwcpnacaragoles>



Sea horse

Part 1: Find the hidden images of marine species

- **Instruction 4:** The fourth image is located in the north of Spain, on the **coast of the Bay of Biscay**
- **Solution:**



Part 1: Find the hidden images of marine species

- **Instruction 4:** The fourth image is located in the north of Spain, on the **coast of the Bay of Biscay**
- **Solution:**

Marine Natura 2000 sites (1 of 5)

Country: **Spain**

Site code: **ES2130008**

Site name: **Urdaibaiko artadi kantauriarrak / Encinares cantábricos de Urdaibai**

Type: **SCI (Special Conservation Interest)**

Directive:

<http://ec.europa.eu/environment/nature/legislation/habitat>

Size (in ha): **1582.81000000**



Bluefin tuna

Part 1: Find the hidden images of marine species

- **Instruction 5:** The fifth image is located in the **North Atlantic Ocean**, along the coast of Africa, in Tenerife
- **Solution:**



Part 1: Find the hidden images of marine species

- **Instruction 5:** The fifth image is located in the **North Atlantic Ocean**, along the coast of Africa, in Tenerife
- **Solution:**

European Maritime Day in My Country 2025 (1 of 3)

Event Title: **AquaWind Showcase Event**

Event Category: **Information activities on maritime issues**
(blue economy, coastal communities, offshore renewable energy, aquaculture, maritime skills or maritime research projects, sustainable coastal tourism, sustainable marine waste management, sustainable ports etc)

Country: **Spain**

Event Date: **06/06/2025**

Nature of the event: **Physical event**

Organiser: **Clúster Marítimo de Canarias**

Website: <https://clustermc.es/>



Anglerfish



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Part 2: complete the table
with information about the
marine species

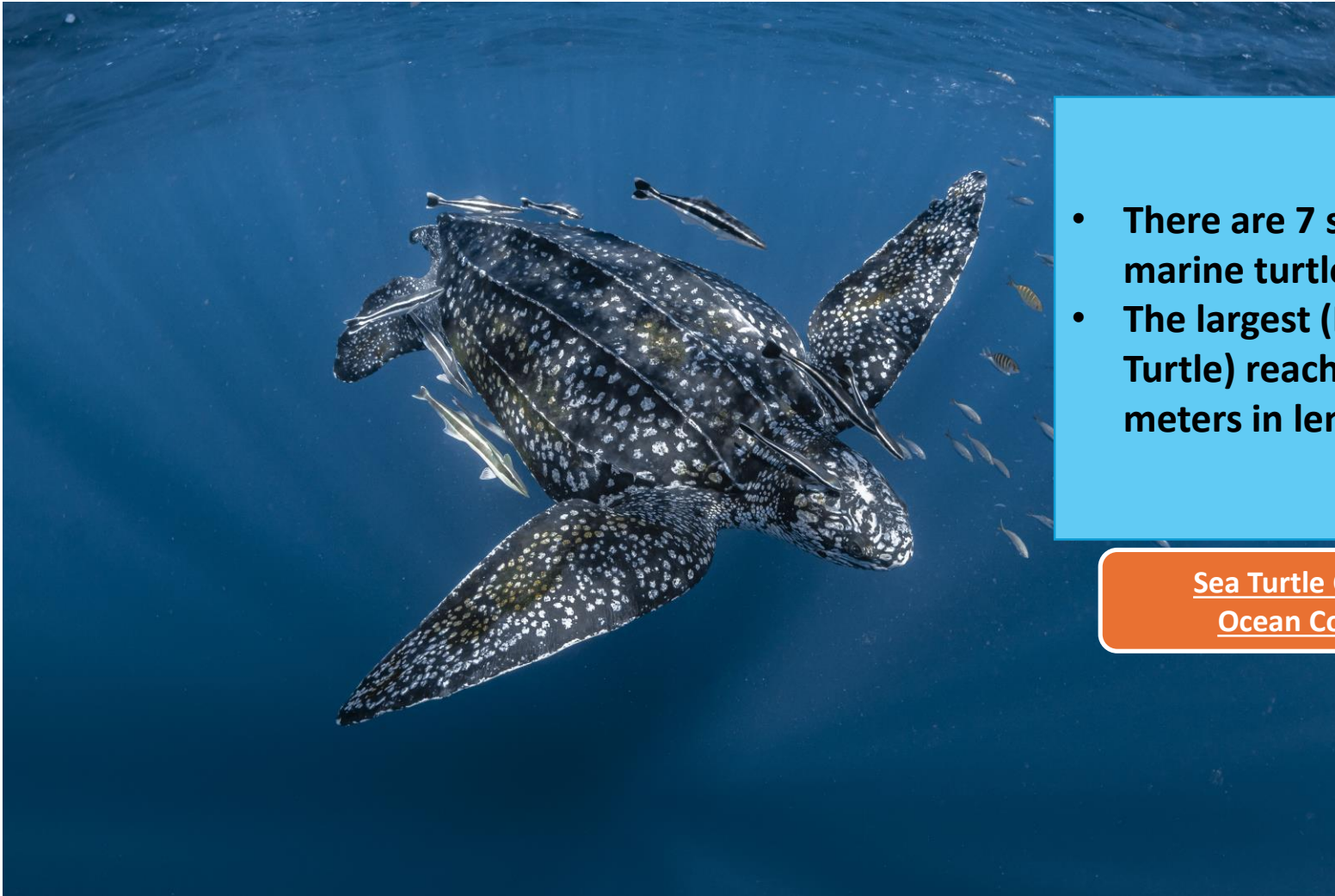
Part 2: Complete the table with information about the marine species

Name of the species	Class of vertebrates	In which sea was this species hidden	Where does this species live	What does this species eat	Fun fact about this species
Turtle	Reptile	Adriatic Sea	Marine turtles live in tropical and subtropical waters all around the world. But some are pickier and stay around one place (Kemps Ridley Sea Turtle and Flatback Sea Turtle).	Some feed on seagrass (Green Turtle), others enjoy a jellyfish meal (Leatherback Turtle) or crustaceans and molluscs (e.g. Loggerhead Turtle).	They lay eggs on the beach where they once hatched. How do they find it? A common hypothesis is that they use the Earth's magnetic field! The sex (male or female) of hatchlings depends on the temperature!

Some sources

[Sea Turtle Conservancy](#), - [World Wide Fund for Nature](#) - [Ocean Conservancy](#) - [Innoceana](#) - [Blue World Institute](#) - [Archipelagos](#) - [National Oceanic and Atmospheric Administration](#)

Part 2: Complete the table with information about the marine species



- There are 7 species of marine turtles.
- The largest (Leatherback Turtle) reaches up to 2 meters in length.

[Sea Turtle Conservancy](#)
[Ocean Conservancy](#)

Credit: [Emilie Ledwidge / Ocean Image Bank](#)

Leatherback turtle, Coral Bay, Ningaloo Reef, Western Australia

Part 2: Complete the table with information about the marine species

Name of the species	Class of vertebrates	In which sea was this species hidden	Where does this species live	What does this species eat	Fun fact about this species
Dolphin	Mammals	Tyrrhenian Sea	Most dolphins live in the ocean or in coastal waters, but there is a few swimming in rivers (the South Asian River Dolphin and the Amazon River Dolphin)!	Dolphins feed mainly on fish and squid.	They use echolocation to find their prey! By making clicking sounds, they send a sound out in the water. When the sound bounces back, they can find out the location, size and even shape of the prey!

Some sources

National Geographic - National Geographic Kids - Blue World Institute
- Archipelagos

Part 2: Complete the table with information about the marine species



- There are 36 dolphin species.
- The largest dolphin is the orca with a length of 9 meters.
- The Maui dolphin is the smallest species with a length of 1.5 meters.

National Geographic

Credit: Vincent Kneefel / Ocean Image Bank

Orca, Indian Ocean

Part 2: Complete the table with information about the marine species

Name of the species	Class of vertebrates	In which sea was this species hidden	Where does this species live	What does this species eat	Fun fact about this species
Sea Horse	Fish	Balearic Sea	These creatures prefer coastal waters. They live in tropical and temperate regions around the world where the temperature doesn't drop too much!	Their menu consists of small crustaceans. They don't chase and hunt! Instead, they wait for prey to pass by.	The dad carries the eggs! The female lays her eggs in a pouch of the male, who then carries the eggs until ready to hatch.

Some sources

National Geographic Kids - IUCN SSC Seahorse, Pipefish & Seadragon Specialist Group (SPS SG) -

Part 2: Complete the table with information about the marine species



- There are 36 sea horse species.
- They range in size from 2 to 35 centimeters.

National Geographic Kids

Credit: [Stefan Andrews / Ocean Image Bank](#)

Seahorse, Great Southern Reef, Australia

Part 2: Complete the table with information about the marine species

Name of the species	Class of vertebrates	In which sea was this species hidden	Where does this species live	What does this species eat	Fun fact about this species
Bluefin tuna	Fish	Bay of Biscay	Atlantic bluefin tuna live near the surface in temperate waters but frequently dive to depths of 500 to 1,000 meters.	Young Blue Tunas eat squid, fish and crustaceans. But adults hunt on baitfish like mackerel, herring and bluefish.	As top predators, they play an <u>important role</u> in maintaining balance in the ecosystem. They make sure that prey populations don't become too big!

Some sources

World Wide Fund for Nature – IUCN RED List:
Atlantic Bluefin Tuna - Marine Stewardship Council
(MSC) - NOAA Fisheries

Part 2: Complete the table with information about the marine species



- There are 3 species of the bluefin tuna: the Atlantic, Pacific and Southern bluefin tuna.
- Bluefin tunas are endangered. This means that they face a high risk of going extinct in the wild.

[Marine Stewardship Council](#) -
[World Wide Fund for Nature](#) -
[IUCN RED List: Atlantic Bluefin](#)
[Tuna](#)

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Bluefin Tuna

Part 2: Complete the table with information about the marine species

Name of the species	Class of vertebrates	In which sea was this species hidden	Where does this species live	What does this species eat	Fun fact about this species
Humpback anglerfish	Fish	North Atlantic Ocean	Usually found at depths of between 200 and 2,000 metres.	On the menu: other fish!	The anglerfish has a special way of luring other fish close. Females have a fishing-rod attached to their head with a light bulb at the end.

Some sources

Nausicaa: Humpback anglerfish
- Monterey Bay Aquarium – Oceanographic Magazine



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Part 3: Learn about marine species in other sea basins

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- **Instruction:** No species were hidden in the Baltic Sea and in the Black Sea. Can you find examples of species that can be observed in the Baltic Sea and the Black Sea?



Source: [European Atlas of the Seas](#)

Part 3: Learn about marine species in other sea basins

- **Instruction:** No species were hidden in the Baltic Sea and in the Black Sea. Can you find examples of species that can be observed in the Baltic Sea and the Black Sea?

- **Solution:**

Common Bottlenose Dolphin, Black Sea



Credit: [Mark Ian Cook / Ocean Image Bank / Mangrove Photography Awards](#)

Bottlenose dolphin mud-ring feeding behavior

They live in groups of about 12 individuals and work together to herd their prey to the surface.

Harbour Porpoise, Black Sea



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Harbour Porpoise

Live in groups of 2 to 3 in coastal areas. Vulnerable to pollution, noise and accidental capture.

Some sources

[ACCOBAMS](#) – [DOORS Black Sea](#) – [WWF](#) – [NOAA Fisheries](#)

Part 3: Learn about marine species in other sea basins

- **Instruction:** No species were hidden in the Baltic Sea and in the Black Sea. Can you find examples of species that can be observed in the Baltic Sea and the Black Sea?

- **Solution:**

Short-Beaked Common Dolphin, Black Sea



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Short-Beaked Common Dolphin

They are highly social and energetic! One of the most abundant dolphins in the world. They like to be in places where cold deep water comes to surface.

Some sources

ACCOBAMS, NOAA Fisheries

Part 3: Learn about marine species in other sea basins

- **Instruction:** No species were hidden in the Baltic Sea and in the Black Sea. Can you find examples of species that can be observed in the Baltic Sea and the Black Sea?



Source: [European Atlas of the Seas](#)

Part 3: Learn about marine species in other sea basins

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- **Solution:**

Baltic tellin, Baltic Sea



Retrieved from Canva
Also called Baltic Macoma

The most common clam
along the Finnish coast.
They live on the
sediments of the soft
seafloor.

Blue mussel, Baltic Sea



Retrieved from Canva
Blue mussels

Can be seen attached
to hard substrates like
rock, boulders and
stone.

Part 3: Learn about marine species in other sea basins

- **Instruction:** No species were hidden in the Baltic Sea and in the Black Sea. Can you find examples of species that can be observed in the Baltic Sea and the Black Sea?

- **Solution:**

Salmon, Baltic Sea

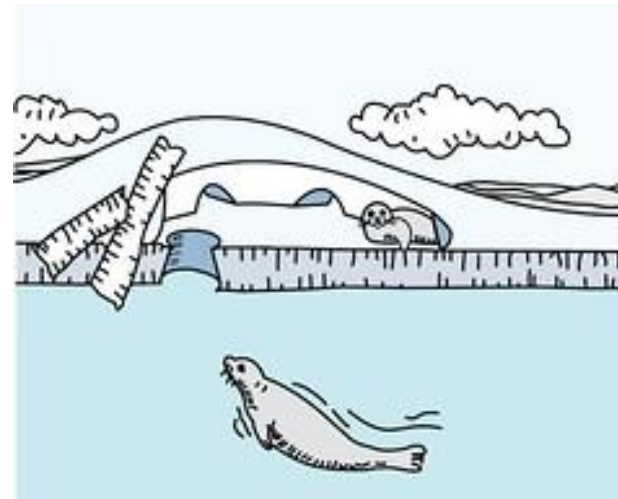


Retrieved from Canva

Salmon leaping rapids

Feeds in the sea but swims up rivers to spawn. Many migratory species are endangered!

Baltic ringed seal, Baltic Sea



Credit: Robert Barnes, UNEP/GRID-Arendal (www.grida.no/resources/5262)

Ringed seal pupping lair, with the pup in the lair and the female approaching the haul-out hole from the water

Needs ice and snow cover to survive! They dependent on it for reproduction and moulting.



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Part 4: Discuss key measures to protect marine species

Part 4: Discuss key measures to protect marine species

Instructions:

- What are the main threats faced by these marine species?
- How can they be protected?
- What are Natura 2000 sites?

A few ideas for an interesting debate!

• Solution:

Threats include

- Ocean warming
- Ocean acidification
- Loss of oxygen in the ocean
- Habitat degradation
- Climate change
- Pollution
- Over exploitation
-

How can species be protected?

- Marine Protected Areas (MPAs)
- Legislation for protecting species and habitats
- Limit pollution
- Limit greenhouse gases emissions
- Sustainable fishing practices
- Limit bycatch
- Reduce plastics
- ...

Natura 2000 sites

- These are designated sites in Europe both on land and in the ocean aiming to protect valuable and threatened species and habitats.

Additional resources on marine biodiversity

- [Ocean Literacy Portal – What is Ocean Biodiversity?](#)
- [World Register of Marine Species \(WoRMS\)](#)
- [WoRMS: Ten remarkable new marine species from 2024](#)
- [Ocean Biodiversity Information System](#)
- [Agreement on Marine Biological Diversity of Areas Beyond National Jurisdiction](#)



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