M Cata Mare www.datamares.org PRESENTS

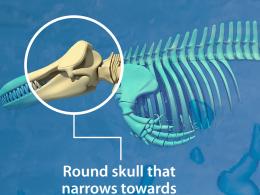
ORCA Orcinus orca

The orca is the largest member of the dolphin family (Delphinidae) and one of the most acrobatic marine species in the world. Although there is only one species, scientists have identified at least 10 groups, known as ecotypes, with distinct morphological and ecological characteristics. Orcas face various threats, including pollution, loss of habitat, accidental entanglement in fishing nets, bioaccumulation of toxic substances in their body and their capture for captivity.

ANATOMY

Orcas exhibit sexual dimorphism and males tend to be larger than females. The most obvious difference is the size of the dorsal fin.

Average life span: Females: 46-50 years Males: 30-38 years



the jaw.

Kingdom: Animalia Phylum: Chordata **Class:** Mammalia **Order:** Cetacea Suborder: Odontoceti Family: Delphinidae Genus: Orcinus Species: O. orca



Conservation status: • NOM 059 – **Pr** (special protection) • IUCN – DD (data deficient)

46-50 large teeth that can reach 13 cm in length.

IN COLABORATION WITH:

Laboratorio Marino virtual

Un fascinante mundo submarino

QID 0-

Distribution: Cosmopolitan; can be found in all oceans from polar waters to warmer waters in the equator.



Diet: They prey on squid, octupus, fish, sharks, sea turtles, marine birds and other marine mammals.



Predators: Orcas are top predators, which means they do not have natural predators.

Reproduction: Males at 13 years of age; females between 6 and 10 years old.

15-18 months Gestation period; they can give birth to one calf every 5 years.



1 year Lactation period, although the calf will remain close to the mother the first 2 years of its life.

40 years Estimated age at which females are no longer fertile.





1860: Fitzinger describes

the genus Orcinus and recategorizes the species as O. orca (Linnaeus, 1758).



982: The International Whaling Commission prohibited hunting of Orcinus orca.



Wild Animals (CMS).

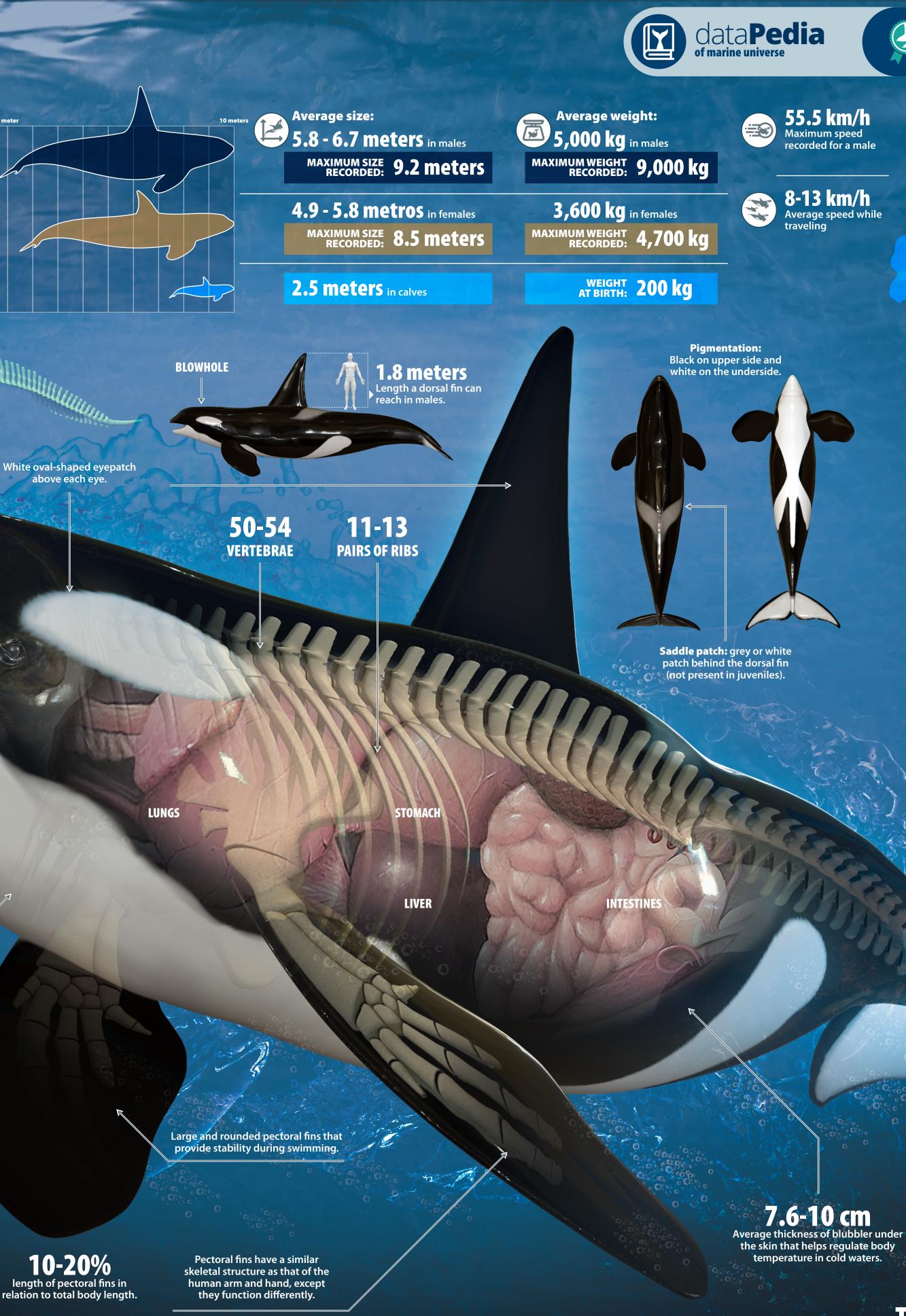


they are unable to distinguish colors within the blue wavelength.

Eyesight: they have good eyesight

above and below water, although

Stocky hydrodynamic body.



Mexico publishes the list of protected species, NOM-059-SEMARNAT, and includes the orca under the Special Protection Pacific was completed. (Pr) category.

997: The first photoidentification catalogue of orcas in California and Mexican

2017: The International Union for Conservation of Nature included Orcinus orca in its Red List under Data Deficient (DD) status.

2020: A new ecotype for orcas for Mexico's central Pacific is proposed.



ENTANGLEMENTS They can drown when they get tangled up in fishing nets.

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DISTRIBUTION

Gata

Although orcas live in all oceans, they tend to prefer cold waters like those in the Antarctic, Norway and Alaska.



BASTIÁN VIZCAÍNO

GULF OF

CALIFORNIA

BAY





Orcas can be found in Mexico's Pacific ocean and in the Gulf of California, where temperate waters are rich in food.

Scars and nicks on skin, fins and fluke, as well as the shape of the saddle patch are unique to each individual.

1000

BEHAVIOR

They form matrilineal groups with complex social structures of up to

20 INDIVIDUALS spanning 2 or 3 generations.

Fluke with one notch at the center.



ECOLOGICAL ROLE

As top predators, orcas help control the populations of their prey.



HUMAN Either hunted or trapped for captivity.





POLLUTION Chemical pollutants, heavy metals and polychlorinated biphenyls accumulate in their bodies, causing health problems.

CREDITS

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SOURCES: • Esteban et al. (2016). Conservation status of killer whales, Orcinus orca, in the Strait of Gibraltar. Advances in marine biology, 75: 141-172. • Ford J.K.B. (2009). Killer Whale: Orcinus orca. En: Perrin, W.F., Würsig B. & Thewissen J.G.M. (Eds.). Encyclopedia of marine mammals. 2nd Ed. Academic Press. • Marino et al. (2020). The harmful effects of captivity and chronic stress on the well being of Orcas (*Orcinus orca*). Journal of Veterinary Behavior, 35 69-82 • Matika et al., (2022). Feeding characteristics and prey profitability in five herring-feeding killer whales (*Orcinus orca*) in northern Norway. Marine Mammal Science.

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