

How can you help?

When you go on a dolphin spotting trip with a boatman or tourguide, you can ensure that he and the other passengers observe the guidelines in this brochure.

Looking for more information?

Green Heritage Fund Suriname

Website: www.greenfund.sr.org
E-mail: info@greenfund.sr.org
Address: Hofstraat 104b
PO Box: 9218 Paramaribo Zuid
Telephone: 402758

How to become a donor?

Donate USD 50 per year to support our work:

SURINAME

SRD account no. 79482824
US\$ account no. 1972 4673
EUR account no. 1972 4681
in the name of Stichting Green Heritage Fund Suriname
RBTT Bank (Suriname) N.V. - Head Offices
Kerkplein 1, Paramaribo, Suriname

THE NETHERLANDS

EUR account no. 1482.62.317
in the name of Stichting Green Heritage Fund Suriname
Rabobank Utrecht e.o (Nieuwegein branch)
Marconibaas 57
3439 MR Nieuwegein
BIC/SWIFT: RABONL2U
IBAN: NL92 RABO 0148 2623 17



This publication was made possible through a grant from
Samenwerkende Stichtingen
J.C. van der Hucht Fonds en Martina de Beukelaar
and was made in collaboration with



Dolphins
SURINAME

Dolphins are mammals. They are warm-blooded, they give birth to a life young and suckle it. In contrast to other mammals they do not have hairs on their body. Dolphins spend their whole life in water. They breathe through a blowhole, a muscled nostril on top of their heads. For this reason they regularly surface. Dolphins can produce high to very high (inaudible for humans) sounds. On the basis of the re-echoed sound they can orient themselves and find prey (echolocation). aarnemen (echolocatie). Dolphins have a streamlined body like fish that allows them to move quickly through the water. If they do not eat or rest, they often jump over each other and make all kinds of leaps above water.

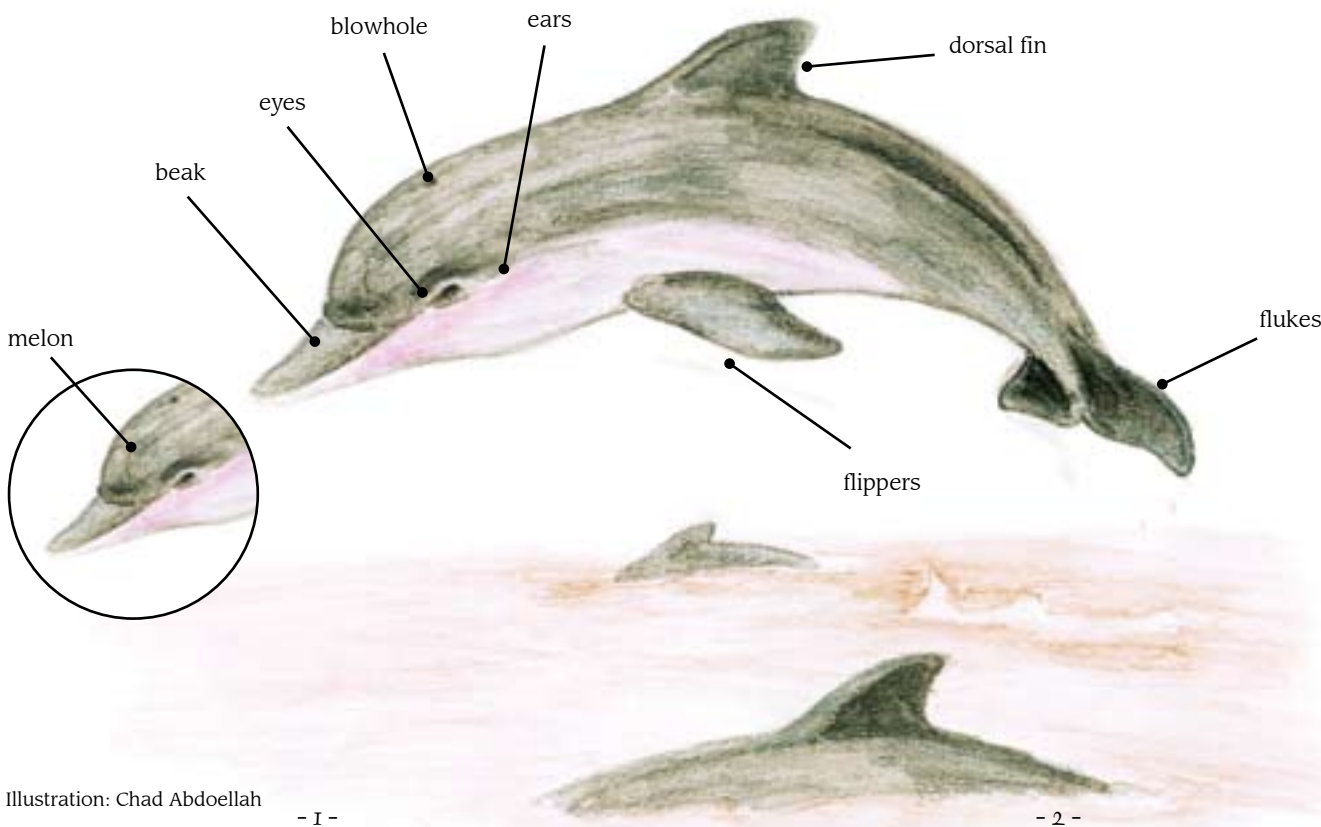


Illustration: Chad Abdoellah

- 1 -

Estuarine or Guiana Dolphin

Along the coast of Suriname occurs one dolphin species, the estuarine or Guiana Dolphin (or profosu, as this small elegant dolphin is called in Suriname). It occurs to the North of Suriname up till Nicaragua (14° NB), to the south up till South Brazil (27° ZB). Profosu live in shallow parts of the sea and in the estuaries of large rivers. Upstream we can encounter them up to where the water is still brackish. In the Suriname River profosu could be seen in the past up to Domburg and Paranam. Currently, they do not go that far in; with high tide they can still be seen up to the Waterkant. River pollution could be a reason why they no longer swim so far upriver. In the Commewijne River they are sometimes still seen up to Bakkie in the long dry season.

Naming

In 1864 the profosu was first described by P.J. van Bénédén, who gave the dolphin the scientific name *Delphinus guianensis*. Later the profosu was included in the *Sotalia* family, first as a subspecies of the river dolphin *Sotalia fluviatilis* from the Amazon, but since 2007 as a full species: *Sotalia guianensis*. Researchers and institutes in South America, including the Green Heritage Fund Suriname, proposed to call this dolphin from now on: Guianadolfijn in Dutch and Guiana Dolphin in English.

The profosu belongs to the toothed whales. It is a small grey dolphin that has commonly a pink and sometimes a white belly. These dolphins can become over 2 meters long. At birth they are approximately 90 cm long.

Notable Facts

Population Size Suriname River	100-125 dieren
Length of adult animals	180-210 cm
Dorsal color	light greyish blue to dark grey
Ventral colour	pink to light pink and white
Dorsal fin	11-13 cm high
Teeth	30-35 in each jaw
Food	fish, shrimp, cephalopods (sometimes)
Breathing	every 80 seconds
Group size	a few to several dozens

- 3 -

Observable Behavior

Due to the turbid waters along the Surinamese coast it is difficult to observe the behavior of this dolphin under water. From a boat we can only see something of their behavior when the animals surface.

Foraging and Feeding

The food of the profosu consists mainly of fish and shrimp. The animals are masters in catching these. Sometimes you can see how the animals throw a fish in the air and then eat it. When feeding we often see that they put their tails right up in the air, which is called a tail flip. When observing the typical behavior of dolphins foraging remain at a distance, and admire their speed, strength and agility. After all, we would not enjoy if someone came speeding straight through our picknick.



Foraging dolphins ©Luzmila Samson

- 4 -

Playing and Socializing

When dolphins play we can see them leaping out of the water, breaching and lunging, sometimes five times in a row. They can also jump sideways and backways, showing their beautiful pink belly. When they are in such a playful mood, they often enjoy coming close to the boat and observing the people in the boat. They will bow-ride, swim around the boat and keep their heads out of the water for a prolonged time, also called



Spy-hopping © Sylva Koemar



Large formation of dolphins © Luzmila Samson



Baby dolphin with mother © Luzmila Samson



"Travelling" dolphins © Luzmila Samson



Leaping dolphin © Willem Meijlink

spy-hopping. When they display this behaviour they are often in large groups together. When observing this behavior, the boat is brought to a stop and the motor is shut down; and we leave it up to the dolphins how they communicate with the human guests.

Resting and Sleeping

Dolphins rest and sleep on average eight hours per day. As they have to surface each time to breath (dolphins breath consciously, humans

breath automatically), they sleep only with one brain half at a time. By alternating the sleeping brain half all the time, they can sleep and breath on the water surface. When they rest, they often swim slowly abreast in large formations. When we see that the dolphins are resting, the motor is shut down or is idling and the dolphins are observed from a distance and are given the room to pass the boat.

Learning and Caring

The gestation period of a profosu is 12 months. Dolphin babies remain always close to their mother, because they continue breast-feeding for 18 to 36 months. Young dolphins learn, when they are 5-6 months old, to also eat fish. They learn from the mother and other older animals in the group how they can orient themselves, hunt, and socialize. Swimming with dolphins is not allowed, this disturbs their natural behavior and possible aggression from a mother animal can of course never be excluded.

“Travelling”

Sometimes we see dolphins passing by. They will slightly bring their head above the water to see what their position is in the water, where they are headed and to see where the sound is coming from produced by the motor.

Protection and Threats

Profosu are in protected in Suriname on the basis of the Game Act around the year. This does not mean there are not threats. They can become entangled in fishing nets, run into boats or be disturbed by the vibrations of the motors of the boats. Tourists can also have a detrimental effect on the dolphins if they do not observe the guidelines for responsble dolphin tourism (see guidelines below). Further pollution of the Suriname River would in the long run have a negative influence on the animals in the

estuary. The same applies to the dredging of the canal for shipping in this river and the dumping of the sludge material in sea (possible influence on the local fish stock).

Dolphin Research in Suriname

A group of volunteers, falling under a programme of the Green Heritage Fund Suriname, has been collecting data on a

regular basis on the population and behavior of dolphins in the Suriname River estuary since 2005. This programme is the first research of wild dolphins in Suriname. The goal of this research programme is to protect the dolphin population in the estuary of this river. As a result the group is closely involved in looking at the effects of the dredging of the canal on the dolphins. The group also engages in promoting responsible and sustainable dolphin tourism in consultation with the local community, and in providing information about the dolphins and the protection of their habitat.

Research Site

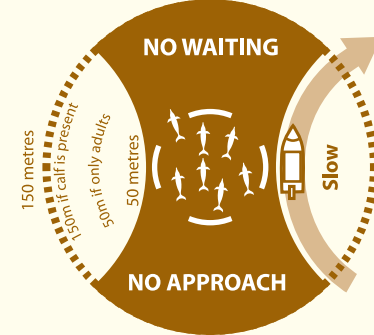
The research site of the dolphin programme in the Suriname River includes the area between Leonsberg and Braampunt, where many dolphins are seen. This area is an open river mouth with along the river banks mud flats that are exposed during low tide. Mangroves line the shores along the river. River mouths are known as areas rich in food. There is a high fish density and all kinds of invertebrates like

crabs and shrimps occur in abundance. The food richness in the water and on the mudflats also forms a good feeding ground for large numbers of shore birds, including the brightly colored scarlet ibis (which can be seen flying over the area in flights of over 100 birds) and the brown pelican.

Guidelines for responsible dolphin tourism

- 1. Never approach a group of dolphins head on or directly from behind. Always approach a group under a sloping line. Stay at an angle of at least 30 degrees to the direction in which they are swimming.

Dolfijnen benaderingsafstand



- 2. Do not approach the dolphins at full throttle and do not suddenly change direction when going towards them.
- 3. Reduce the speed of the boat at a distance of 150 meters or shut down the motor. Do not go closer to the group than 50 meters (precaution zone).
- 4. Do not chase the dolphins and never travel through a group of dolphins.
- 5. Let the dolphins themselves choose how they want to interact with the boat.
- 6. Stop the boat and let the motor idle or shut it down if the dolphins come closer out of their own volition, are resting or are playing with each other.
- 7. Do not stay for more than 15 minutes near one and the same group of dolphins
- 8. Travel slowly away from a group of dolphins if they show signs of agitation (swimming away from the boat, regularly changing direction or speed, diving hurriedly, slapping the flukes on the water).
- 9. Do not feed the dolphins and do not throw garbage into the water or throw objects to the animals.
- 10. Do not imitate dolphin sounds and do not swim with them, because this disrupts their natural behavior.