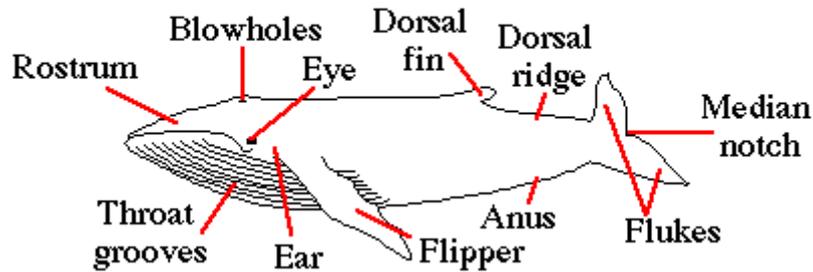


## Humpback Whale



During winter time we operate whale watching tours around the waters of South West Rocks. The tours provide an opportunity to get up close and personal to the giants of the sea the Humpback Whales, Southern Right Whales, Pilot Whales and dolphins. South West Rocks, because of its location provide close up views of the migrating whales both migrating north and then again when they come back with their babies.

### GENERAL DESCRIPTION

The humpback whale is a baleen whale and a rorqual whale that sings amazing songs. It performs complex and cooperative feeding techniques. The humpback has a bulky head with bumpy protuberances (tubercles), each with a bristle. Humpbacks are acrobats of the ocean, breaching and slapping the water. They live in pods and have 2 blowholes. The name humpback describes the motion it makes as it arches its back out of the water in preparation for a dive.

### SIZE

Humpback whales grow to be about 16 m long, weighing 27-45 tonnes. The females are slightly larger than males, as with all baleen whales. The four-chambered heart of the average humpback whale weighs about 195 kg - about as much as three average adult human beings.

### SKIN, SHAPE AND FINS

Humpbacks come in 4 different colour schemes, ranging from white to gray to black to mottled. There are distinctive patches of white on underside of the flukes (tail). These markings are unique to each individual whale, like a fingerprint. The humpback's skin is frequently scarred and may have patches covered with barnacles.

Humpback whales have 14-35 throat grooves that run from the chin to the navel. These grooves allow their throat to expand during the huge intake of water during filter feeding. They have small, round bumps on the front of the head (called knobs or tubercles), edging the jaws.

Humpbacks have huge, mottled white flippers with rough edges that are up to one-third of its body length; these are the largest flippers of any whale. The humpback's genus, *Megaptera*, means "huge-wings," referring to its flippers. The flippers may have barnacles growing on them.

The deeply-notched flukes (tail) are up to 3.7 m wide. Humpbacks have a small dorsal fin toward the flukes.

## DIET AND BALEEN

Humpback whales (like all baleen whales) are seasonal feeders and carnivores that filter feed tiny crustaceans (krill - mainly *Euphausia superba*, copepods, etc.), plankton, and small fish (including herring, mackerel, capelin, and sandeel) from the water. They are gulpers (not skimmers), filter feeders that alternatively swim then gulp a mouthful of plankton or fish. Concentrated masses of prey are preferable for this method of feeding. An average-sized humpback whale will eat 2000-2500 kg of plankton, krill and small, schooling fish each day during the feeding season in cold waters (about 120 days). They eat twice a day.

Humpbacks cooperate in hunting and have developed a method of rounding up highly concentrated masses of prey that is called bubble-net feeding. The hunting members of a pod form a circle 3.1-31 m across and about 15 m under the water. Then the humpbacks blow a wall of bubbles as they swim to the surface in a spiral path. The cylindrical wall of bubbles makes the trapped krill, plankton, and/or small fish move to the surface of the water in a giant, concentrated mass. The humpbacks then eat a large, hearty meal.

The humpback whale has about 330 pairs of dark gray baleen plates with coarse gray bristles hanging from the jaws. They are about 60 cm long and 34 cm wide.

## SOCIAL GROUPS



Humpbacks travel in large, loose groups. Most associations between humpbacks are temporary, lasting at most a few days. The exception is the strong and lasting bond between mother and calves.

## DIVING, BREACHING, SPYHOPPING, AND LOBTAILING

Humpback whales can dive for up to 30 minutes, but usually last only up to 15 minutes. Humpbacks can dive to a depth of 150-210 m.

## SPEED

Humpback whales normally swim 4.8-14 kph, but can go up 24-26.5 kph in bursts when in danger.

## VOCALIZATION

Humpback whales are the noisiest and most imaginative whales when it comes to songs. They have long, varied, complex, eerie, and beautiful songs that include recognizable sequences of squeaks, grunts, and other sounds. The songs have the largest range of frequencies used by whales, ranging from 20-9,000 Hertz. Only males have been recorded singing. They sing the complex songs only in warm waters, perhaps used for mating purposes. In cold waters, they make rougher sounds, scrapes and groans, perhaps used for locating large masses of krill (the tiny crustaceans that they eat).

## MIGRATION

Humpback whales take long seasonal migrations. They mate and calve in tropical waters during the winter and then travel to cold polar waters during the summer to feed. During the summer in the warm waters, adults do not eat, but live off their layer of blubber (fat); the young calves feed on rich mother's milk.

Humpbacks migrate at 4.8-14 kph. They have incredible powers of endurance, traveling over 5000 km during each seasonal migration with almost no rest along the way. During migrations, they cover over 1,000 miles per month.

## REPRODUCTION

Humpback whale breeding occurs mostly in the winter to early spring while near the surface and in warm, tropical waters. The gestation period is about 11-12 months and the calf is born tail first (this is normal for cetaceans) and near the surface in warm, shallow waters. The newborn instinctively swims to the surface within 10 seconds for its first breath; it is helped by its mother, using her flippers. Within 30 minutes of its birth the baby whale can swim. The newborn calf is about 4.3 m and weighs about 2.5 tons. Twins are extremely rare (about 1% of births); there is almost always one calf. The baby is nurtured with its mother's milk and is weaned in about 11 months. The mother and calf may stay together for a year or longer. Calves drink 100 pounds of milk each day. Humpback whales reach puberty at 4-7 years old, and maturity at 15 years. A calf is born to a female every 1-3 years.

## LIFE SPAN

Humpback whales have a life expectancy of 45-50 years.