

## Northern Fur Seal

The **northern fur seal**, or laqux, (*Callorhinus ursinus*) is a member of the family Otariidae, or eared seals. Two physical traits they have in common with sea lions are their tightly rolled external ears and their ability to rotate their hind flippers forward. This latter characteristic enables them to run or climb on land, an ability helpful to Aleut hunters who sometimes drive them several hundred yards inland to harvesting sites. The term fur seal comes from the thick waterproof underfur which numbers over 350,000 hairs per square inch (60,000 hairs/cm<sup>2</sup>). When seal skins are processed, the longer guard hairs are removed to reveal this underfur which is then straightened and dyed to make a very soft and warm pelt. Northern fur seals are found on both sides of the Pacific Ocean from about 32° north to the central Bering Sea. It is the most common species of fur seal in northern waters and the only one in Alaska. The eight other species of fur seals are mostly from the southern hemisphere.

**General description:** There is no pattern of rings or spots on the pelage of fur seals. Females and young males appear uniformly black when wet. They appear gray or brown when dry except for the lighter colored throat and chest areas which may be seen when an animal is viewed from the front. Mature bulls are predominantly brownish-black and begin developing a lighter colored mane around 6 years of age. Females that have been ashore for a few days may appear brown due to staining of the fur by mud and excrement. When observed at sea, fur seals appear very dark and are often seen porpoising (swimming with a series of arcing jumps out of the water, similar to many porpoises or dolphins) or resting on the surface with one or more of their long flippers curved above the water.

Fully mature male northern fur seals weigh 450-600 pounds (200-275 kg) when they arrive at rookery areas in the late spring. As much as 25 percent of this weight may be lost during their stay on land. Mature females usually weigh 80-110 pounds (36-50 kg).

**Food habits:** Fur seals feed mainly at night and may dive to depths of 600 feet (180 m) in search of small schooling fish and squid. Seals eat a wide variety of prey; over 60 species have been identified from the contents of their stomachs. Food types change as the seals migrate, principally determined by the changing abundance of prey. Near the Pribilof Islands they feed on pollock, herring, capelin, and squid.

**Life history:** Alaska's Pribilof Islands provide breeding grounds for over two-thirds of the world population of northern fur seals. Hundreds of thousands of these animals return there each summer to give birth and breed on land. Large males arrive first, establishing territories in May and early June which they aggressively defend for an average of 50 days. As many as 100 females may eventually collect within each of these territories, although numbers of 20-60 are more common. Pregnant females begin arriving in early to mid-June. Within 48 hours after arrival they give birth to a single 10-14 pound (4.5-6.4 kg) pup and then mate again within a week. Females nurse their pups for three to four months, making several week-long trips to sea to feed during this period.

Female fur seals mature at 3 to 5 years of age, and over 80 percent of those between ages 8 and 13 are pregnant each year. Tagged females have lived for as long as 26 years, and one was found to still be reproductive at age 25. Males are sexually mature at 5 or 6 years but are usually not large enough or socially mature enough to enter the reproductive population until 9 or 10 years old.

**Seasonal movements:** Seals begin leaving the Pribilof Islands in November. By late December virtually no animals will be seen ashore. Unless sick or injured, northern fur seals will rarely touch land again until the following summer when the cycle begins anew. Throughout the intervening months they occur most frequently near the continental shelf edge, usually not closer than 10 miles (16 km) nor further than 100 miles (160 km) from shore. Females and immature males (ages 1-5 years) swim to the south and may be found from southeastern Alaska to California with some going as far as the California-Mexico border. Adult males do not undertake an equivalent migration. It is generally thought that nearly all of the older males winter in the Gulf of Alaska and southern Bering Sea.

**Population size:** The population estimate for the Eastern Pacific population of northern fur seals is approximately 720,000; the population has declined by >50% since the 1950s. Northern fur seals are listed as depleted under the Marine Mammal Protection Act.

**Predators, hunting, and other mortality:** Fur seals were first described scientifically by Georg Wilhelm Steller in 1742. Commercial exploitation soon followed, and several million animals were harvested by Russians and later by Americans, resulting in severely reduced populations. In an attempt to stabilize the population and achieve maximum productivity, the governments of Japan, Great Britain (for Canada), Imperial Russia, and the United States met in 1911 to form the North Pacific Fur Seal Commission. This treaty prohibited pelagic (open ocean) seal hunting. Harvesting has been managed by international agreement ever since. Beginning in 1985, commercial harvesting of fur seals on the Pribilof Islands was terminated. Only those seals needed for subsistence purposes are now taken. Annual subsistence harvests target young male seals between the ages of 2 and 5. Other sources of direct mortality include killer whale predation and entanglement in marine debris, primarily nets, plastic packing bands, and line related to the fishing industry.

Revised by Lauri Jemison (2008)

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