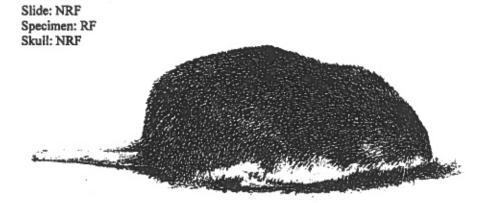
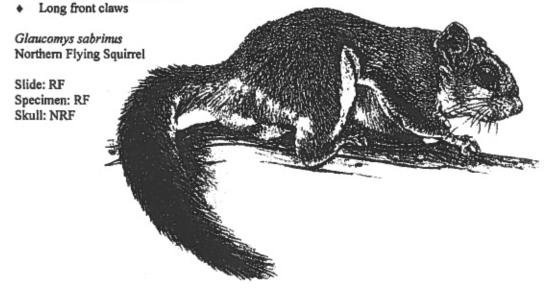
Thomomys talpoides Northern Pocket Gopher



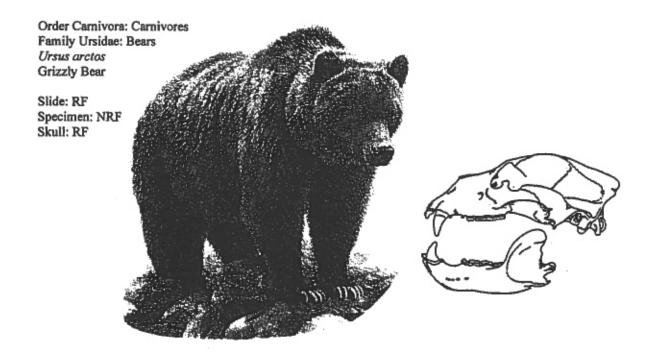
Diagnostic features

- Chipmunk sized, thickset body, short legs, generally brown in overall colour
- External cheek pouches that are fur lined
- Short naked tail
- · Small round ears, blunt face



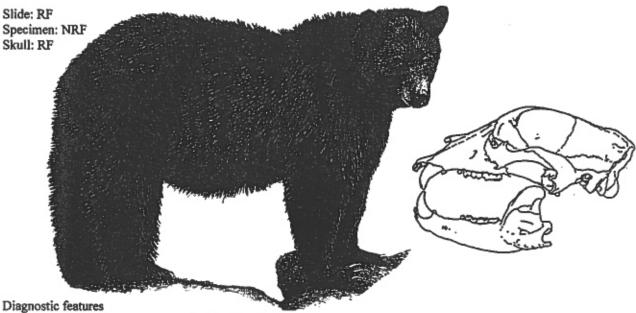
- A medium-sized squirrel with a broad flat tail
- Large dark eyes that are bordered by a black ring
- Fold of skin that forms a gliding membrane extending along the sides between the wrist and ankle
- Soft silky dorsal pelage varies from grey-brown to rich brown
- Undersides are separated from the dorsal fur by a distinct dark lateral line

Order Carnivora: Carnivores			
Family Ursidae: Bears Ursus arctos	Grizzly Bear	Ursus americanus	Black Bear
	The state of the District of the State of th		
Family Procyonidae: Raccoons Procyon lotor	Raccoon		
Family Mustelidae: Weasels, Skur	aks and Allies	11. 2012 1	N. 12
Martes americana	American Marten	Martes pennanti	Fisher
Mustela vison	Mink	Lutra canadensis	River Otter
Enhydra lutris	Sea Otter	Gulo gulo	Wolverine
Taxidea taxus	Badger	Mephitis mephitis	Striped Skunk
Spilogale putorius	Spotted Skunk		
Family Canidae: Wolves, Coyotes	Foxes	and the state of t	
Canis lupus	Grey Wolf	Canis latrans	Coyote
Vulpes vulpes	Red Fox		
Family Felidae: Cats		The state of the s	
Puma concolor	Cougar etc.	Lynx canadensis	Lynx
Lynx rufus	Bobcat		
Order Artiodactyla: Hoofed mamn	nals	A Committee of the Comm	Life of the Control o
Family Cervidae: True Deer			
Cervus elaphus	Elk	Cervus dama	Fallow Deer (I)
Odocoileus viriginiana	White-tailed Deer	Odocoileus hemionus	Mule Deer
Alces alces	Moose	Rangifer tarandus	Caribou
Family Bovidae: Oxen, Sheep, Go	ats, Bison	his species in the grant has been been a second mission of the sec	to the test of the test of the test of the
Bos bison	Bison	Oreamnos americanus	Mountain Goat
Ovis canadensis	Mountain Sheep etc.	Ovis dalli	Dall's Sheep
Family Otariidae: Eared Seals	eringerioriscopulational and stillibreau dollar part	3.75	A STATE OF THE PARTY OF THE PAR
Callorhinus ursinus	Northern Fur Seal	Eumetopias jubatus	Stellar's Sea Lio
Zalophus californianus	California Sea Lion		
Family Phocidae: Earless Seals	A STATE OF THE PARTY OF THE PAR		
Phoca vitulina	Harbour Seal		
Mirounga angustirostris	Northern Elephant Seal		
Order Cetacea: Dolphins, Whales		A Prince of the Williams and the Control of the Con	A SHOULD
Eubalaena glacialis	Right Whale		
Balaenoptera acutorostrata	Minke Whale		
Balaenoptera borealis	Sei Whale		
Baleanoptera musculus	Blue Whale		
Balaenoptera physalus	Fin Whale		
Megaptera novaeangliae	Humpback Whale		
Delphinus delphis	Common Dolphin		
Lagenorhynchus obliquidens	Pacific White-sided Dolphin		
Orcinus orca	Killer Whale		
	Gray Whale		
Eschrichtius robustus	Gray V	Time	
		Porpoise	
Eschrichtius robustus Phocoena phocoena Phocoenoides dalli	Harbon		

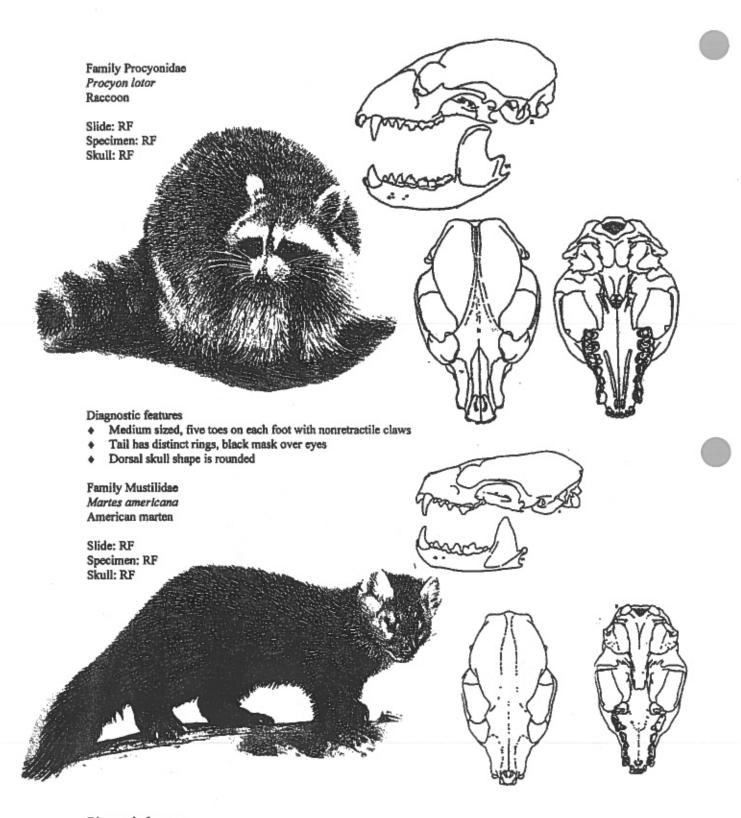


- Large size, humped shoulders, long claws, often stands upright, range of colors-usually brownish, guard hairs are often white tipped = grizzly appearance
- Face is concave in profile
- Forequarters appear higher than the rear

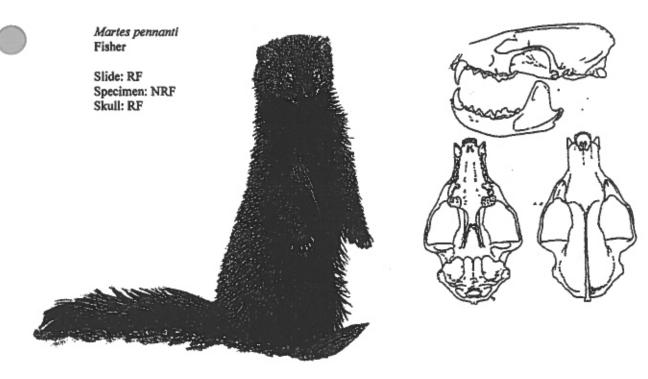
Ursus americanus Black Bear



- Smaller than U. arctos, generally black in color but there many exceptions (ie. Spirit Bear)
- Head is large and straight in profile
- Do not have humped shoulders, do not appear 'frosted'

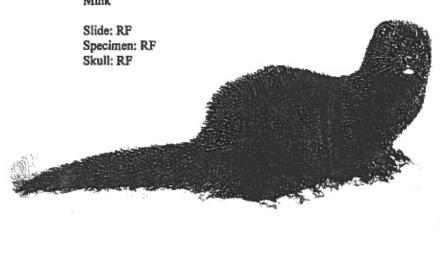


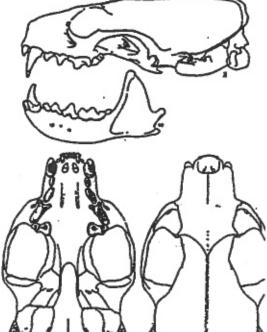
- Small carnivore, long fluffy pelage, bushy tail, prominent ears
- Upper parts are usually dark brown
- Under parts usually have a distinct orange or yellow patch on the throat and breast



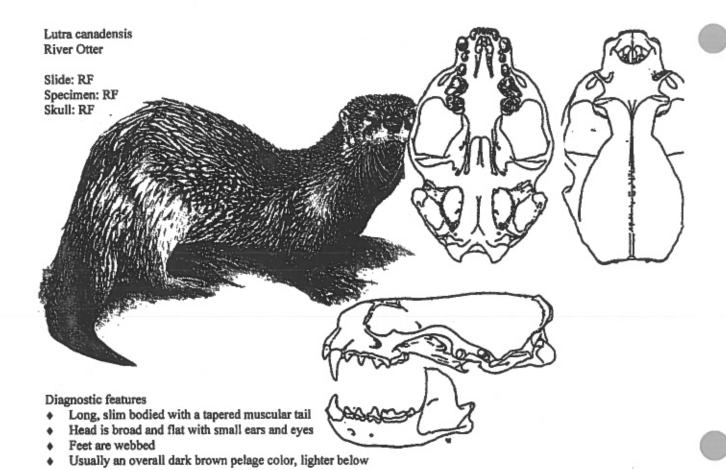
- Larger weasel, fur is dark brown to black, often with white tips on upper parts
- Head is wide in appearance
- Throat patch is small and white or absent

Mustela vison Mink





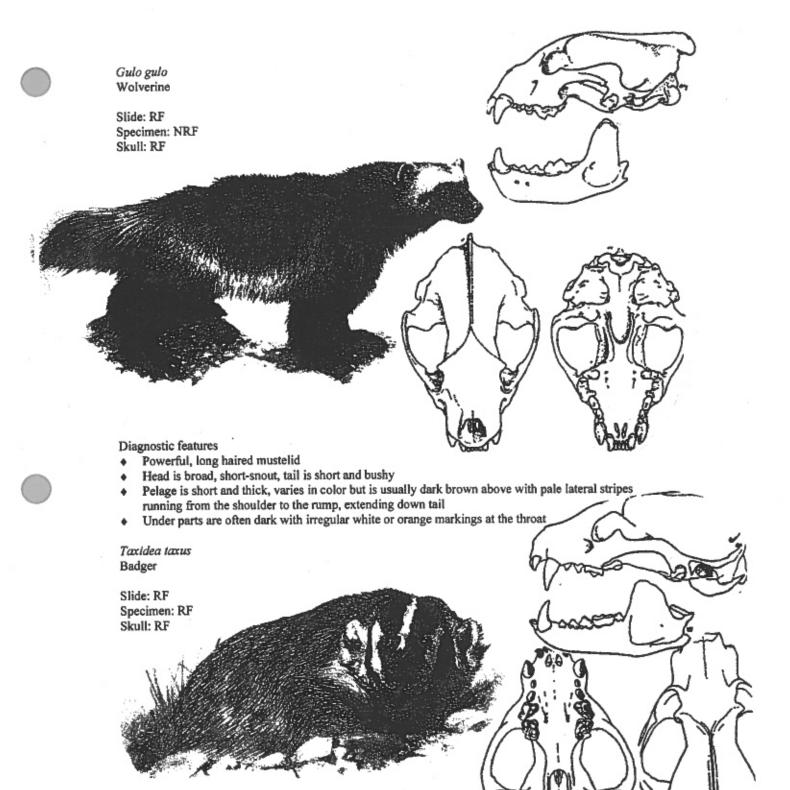
- Overall dark brown in color
- Short legs, head appears flat and triangular, short nose, prominent eyes Pelage often has irregular patches of white on the throat



Enhydra lutris Sea Otter

Slide: RF
Specimen: NRF
Skull: NRF

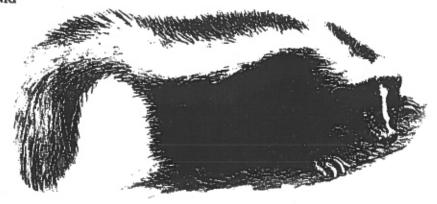
- Large marine otter
- · Tail is short and thick, head is broad and flat
- Whiskers are prominent
- Hind feet are fully webbed, more flipper-like Significantly larger than L. canadensis
- Pelage is dense with light-colored guard hairs giving a grizzled appearance



- Pelage is long and yellowish, silvery grey above, lighter below
- · Head is small and triangular in shape with prominent round ears
- Tail is short and bushy
- A narrow white stripe runs from the muzzle to the shoulder
- White crescent-shaped marking are present below the eye and ahead of the ear, remainder of the face is dark, forefeet with long claws, overall body is somewhat laterally compressed

Mephitis mephitis Striped Skunk

Slide: RF Specimen: RF Skull: NRF

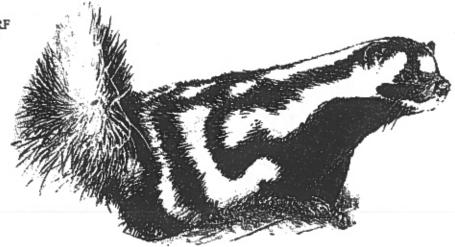


Diagnostic features

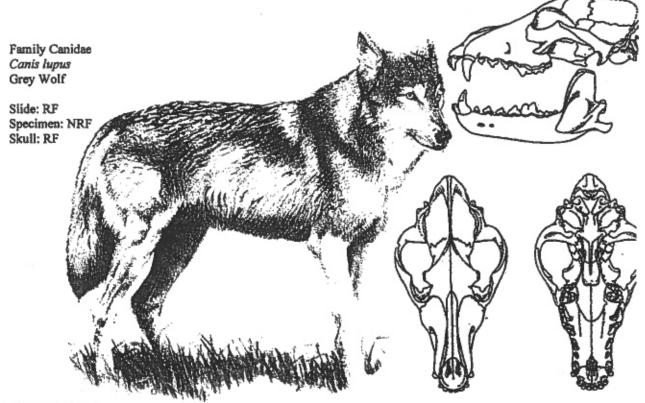
- Black and white striped mustelid, head is sharply pointed with small ears
- Legs are short, forefeet with long claws
- Pelage is long and silky, black in colour with a white stripe on the face, a broad stripe from nape to shoulder, forking at shoulder to form two stripes that extend to the hind quarters

Spilogale putorius Spotted Skunk

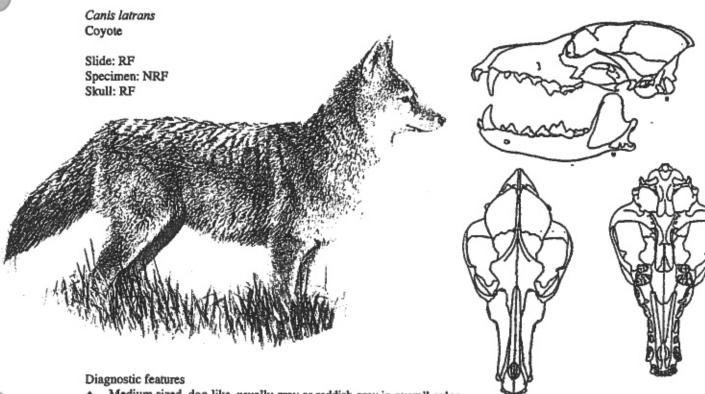
Slide: RF Specimen: RF Skull: NRF



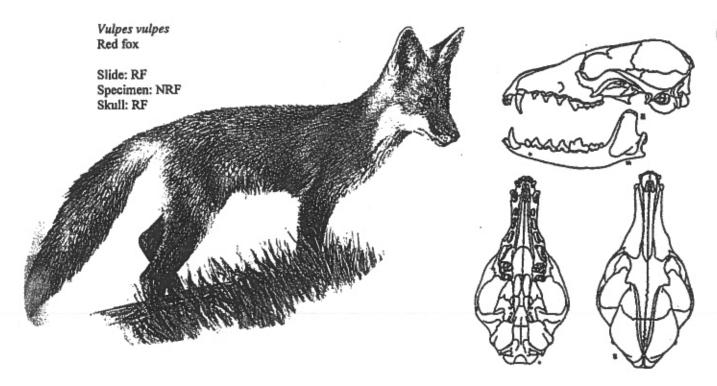
- Black and white mustelid, body fur is short and fine
- Tail hairs are long
- Pelage is overall black in colour with a pattern of white lines, spots and irregular markings along the back from the head to the tail



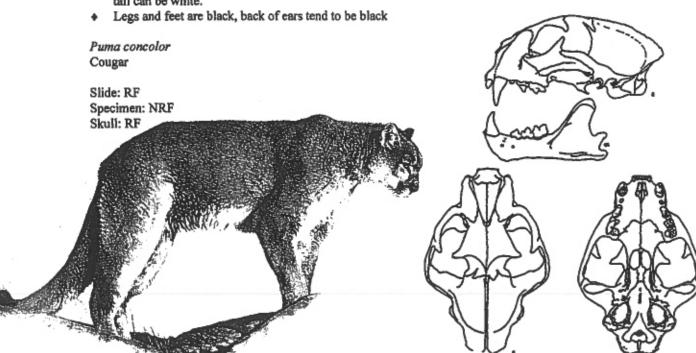
- Largest of the wild canids color is highly variable- looks like a large German Sheppard
- Long legs and large paws, bushy tail



- Medium sized, dog-like, usually grey or reddish grey in overall color
- Legs are often rusty color, feet ears and throat are whitish
- Nose is pointed, tail is bushy with a black tip, usually a grey patch between the eyes



- · Small in size, normally reddish yellow in overall colour
- Darkest on back, belly is white, tail is bushy and long, with black guard hairs tipped with white, end of tail can be white.



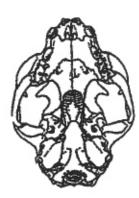
- ♦ Large, unspotted cat, short fur red and gray phase occurs, most individuals are in the gray phase
- . Body is long, head and ears are small
- Long powerful legs
- Long cylindrical tail has a dark tip

Lynx canadensis Lynx





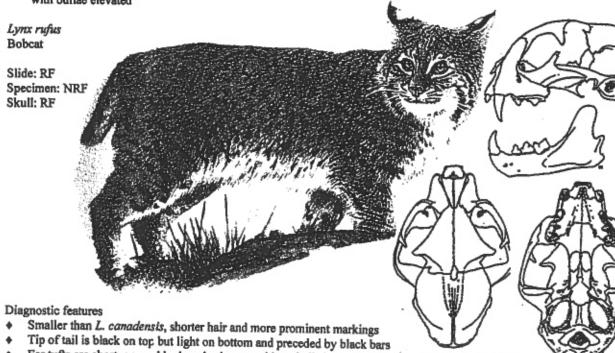




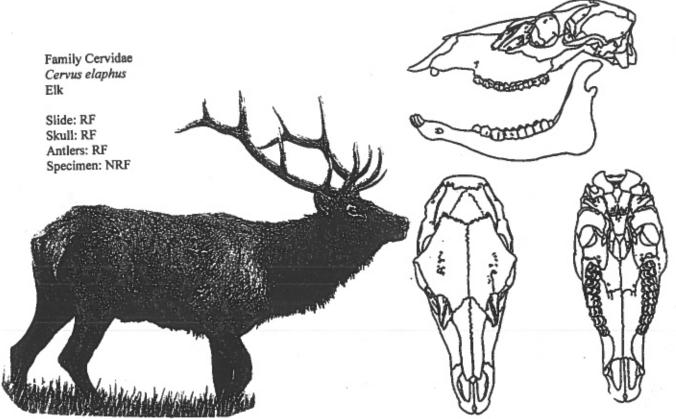
Diagnostic features

- Long silvery-grey fur, ears have long black tufts, backs of ears are grey, edged in black
- Long hair on the side of the lower face form a characteristic facial disk
- Legs without spots or bars, entire tip of tail is black

Skull without the lower jaw, and with upper canines in place, usually rests on canines and condyles with bullae elevated



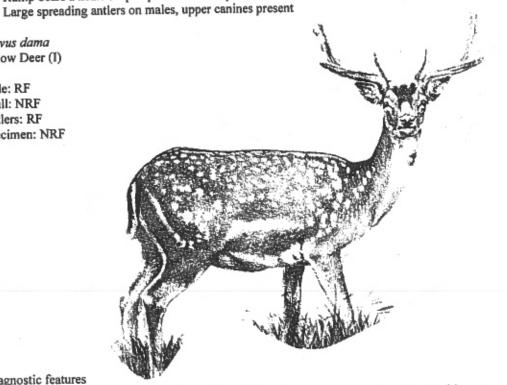
- Ear tufts are short, general body color is grey with an indistinct dark central line and spotting on the sides and down the legs, under parts are light, head without facial disk, usually with dark bars on cheek
- Skull without lower jaw, and with upper canines in place, usually rests on canines and bullae



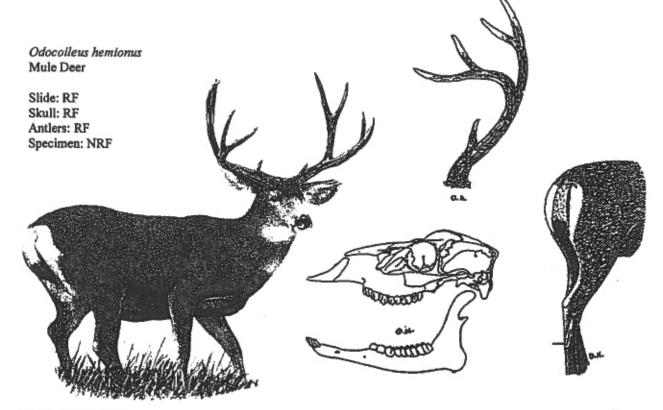
- Variable body color, generally yellowish/brown, head and neck are darker than body
- Rump bears a heart-shaped patch which is pale in color



Slide: RF Skull: NRF Antlers: RF Specimen: NRF



- Color is variable however typical summer pelage is reddish/brown with numerous white spots
- Winter color is uniform greyish/brown
- Tail is long, brown above, black at tip



Large mule-like ears, large whitish rump patch that is divided by a short black-tipped tail

Tan in summer, greyish is winter, dark spot on either side of the nose

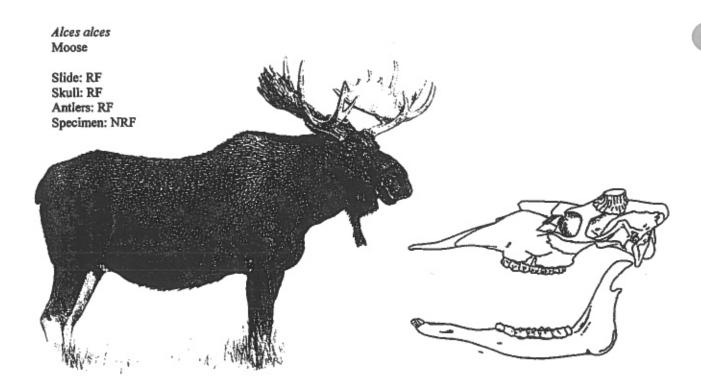
Throat and inside of the legs are white all year round

Antlers branch into two and then each branch into two again (dichotomous branching)

Skull - the lacrimal pit is greater than 9 mm in depth

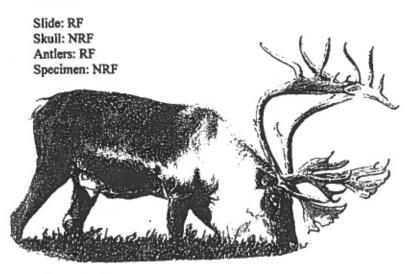


- Upper parts are red/brown in summer, grey/brown in winter
- Belly, throat, chin, and underside of tail are white all year round
- Antlers do not have dichotomous branching all tines arise of the main branch
- Skull- the lacrimal pit is not deep, less than 9 mm in depth



- Largest deer, generally blackish/brown in color, long legs and high shoulders
- Long pendulous, slightly inflated muzzle and throat appendage ('bell')
- · Antlers are broadly palmate, extending laterally from the head
- Only males have antlers

Rangifer tarandus Caribou

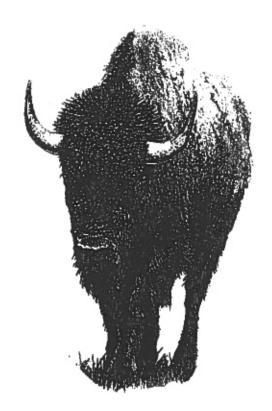


- Large-sized deer, somewhat cylindrical in shape, head is carried low
- Body colour is some shade of dull brown, tail is short, hoofs are large
- Antlers occur in both sexes, erect and spreading and semipalmate, generally with a long, flat tine that
 projects over the nose ('plough')

Family Bovidae Bos bison Bison

Slide: RF Skull: NRF Horns: RF

Specimen: RF (head mount)



Diagnostic features

- Dark brown in color, high shoulders, shaggy mane over forequarters, disproportionately large head
- Short black horns curving out, forward and then inward
- Long tasseled tail

Oreamnos americanus Mountain Goat

Slide: RF Skull: NRF Horns: RF Specimen: NRF



- Stocky, hump-shouldered white in color
- Lips, nose, eyes and hooves are black
- Both sexes may have a noticeable 'beard'
- Short tail, long ears, both sexes have narrow black horns

Ovis canadensis Mountain sheep -Bighorn sheep etc.



Diagnostic features

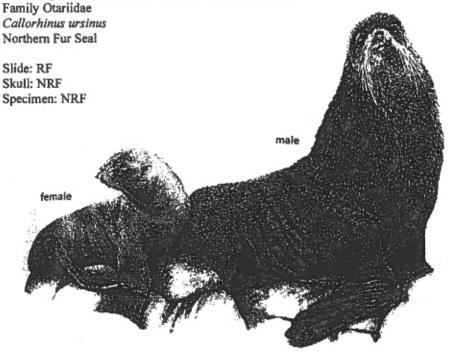
- ♦ Robust brownish sheep has a bobbed tail and a large white rump patch
- · Belly, insides of legs, and end of muzzle are white
- Horns are curved with heavy cross ridges, both sexes have horns
- Horns curve upward, back, sownward and forward in a spiral, horns are brown in color



- Medium sized sheep ,slender horns which are much more open and spreading in spiral than O. canadensis
- Horms usually have the angle over the eye elevated into a prominent ridge
- Pelage color is variable from rich brown to white

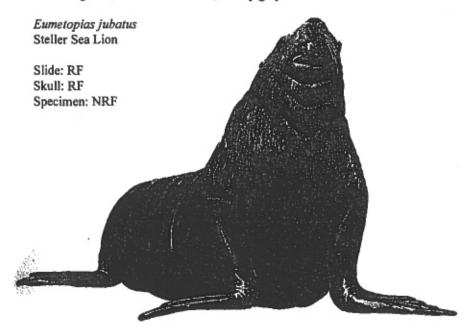
Horms usually have the angle over the eye elevated into a prominent ridge

Pelage color is variable – from rich brown to white



Diagnostic features

- Small head, long whiskers
- Small ears, large eyes with a short pointed nose
- Short tail, large front flippers
- · Pelage is dark brown in males, silvery grey in females



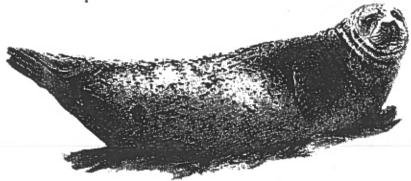
- Largest of the eared seals, large paddle shaped flippers, hind flippers extend beyond thetail
- Body is cylindrical, streamlined, brown to red in color



- Slender elongate body with a blunt snout and a short but distinct tail
- Overall brown in body colour
- Male has crest on head ('raised forehead')
- Front flippers are long and bear claws

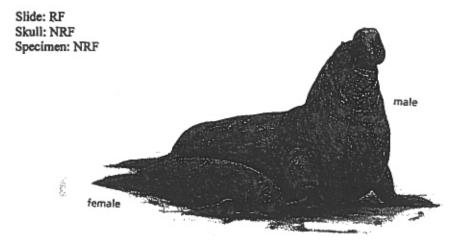
Family Phocidae Phoca vitulina Harbour Seal

Slide: RF Skull: RF Specimen: NRF



- Stubby fusiform-shaped seal, head is smooth and round, lack external ear pinna
- Large eyes situated high on the head, nostrils are high on the snout
- Pelage is coarse and varies in color from almost white to dark grey, usually heavily marbled and blotched

Mirounga angustirostris Northern Elephant Seal



Diagnostic features

- Large size, male has long inflatable snout, in older males skin around neck and chest appears cracked
- In both sexes nose extends past the mouth
- External ear pinna are lacking
- Overall color is grey/brown, hindflippers appear to be lobed on either side

ORDER CETACEA SEE ATTACHED BC MARINE MAMMAL SIGHTING PROGRAM HANDOUT CONCENTRATE ON SLIDES

B.C. MARINE MAMMAL SIGHTING PROGRAM

Merine Mammal Research Group, P.O. Box 6244, Victoria, B.C. V8P 5L5. Phone (604) 380-1925, Fax 380-1206 Toll-Free Whale Sighting and Strending Reporting Line (B.C.) 1-800-665-5939

REPORT SIGHTINGS ON ATTACHED RECORD CARDS OR TOLL-FREE TO 1-800-665-5939

Cetaceans (whales, dolphins and porpoises) are not easy to identify at sea, especially as they are typically seen - a distant blow, a splash, or a silhouette against the horizon. Even when they are seen quite closely, many species are subtly marked and similar to one or several other species; so even specialists must take care not to make quick judgements but rather to be attentive throughout each encounter to details which can confirm identity of the species involved.

The purpose of this program is to collect sightings of all species of cetaceans in British Columbian waters. Although drawings of elephant seals and fur seals are not included in this version of this booklet, records of these species are also requested. Since sighting effort is not being recorded these sightings will not allow for absolute determination of numbers of different species, but they will provide important information on the relative numbers of different species in B.C. waters, and will also provide important records of rare or accidental species.

We encourage all participants in the sighting program to study in detail the available information on how to identify local cetaceans (found in this package and in publications such as The Whale Watcher's Handbook (E. Hoyt. 1984. Penguin Books), the Sierra Club Handbook of Whales and Dolphins (S. Leatherwood and R.R. Reeves. 1983. Sierra Club Books), and A Guide to Marine Mammals of Greater Puget Sound (R. Osborne, J. Calambokidis and E.M. Dorsey. 1988. Island Publishers), and to develop good habits for observing cetaceans and reporting on cetacean sightings. This latter includes (a) logging each sighting with sufficient detail to allow a reviewer to confirm the identifications and (b) photographing animals whenever possible and including photographs with the sighting reports.

As detailed field guides will not always be readily available to observers, we provide here a guide to the cetaceans of the temperate eastern North Pacific, modified from Leatherwood et al. (1987) "Cetaceans of the Channel Islands National Marine Sanctuary". If any dead whales, porpoises or dolphins are found, please phone the toll-free number as soon as possible. Collecting photographs, tissue samples or the entire carcass is extremely valuable. If you would like more information please phone or write Robin Baird at the number/address above.

GUIDE TO THE CETACEANS OF THE EASTERN NORTH PACIFIC

To use this guide: (1) first estimate the animal's size and determine whether or not it has a dorsal fin (2) note also any distinctive features of body shape and coloration and observe its general behaviour, including swimming, blowing and diving characteristics (3) make sketches of the animal's appearance and note on sketches the most distinctive visible features (4) photograph animals whenever possible (5) consult the guide sections to make a tentative identification and (6) upon return to a library containing detailed field guides confirm the tentative field identification.

This guide will work best if in advance of attempting to use it the reader will familiarize him/herself with the species, by reference to more detailed guides, and school him/herself to ask a series of questions about the animal(s) seen:

- (1) How large was it?
- (2) Did it have a fin? If so, what was its size, shape and position on the animal's back?
- (3) Was the animal's blow visible; if so how tall did it appear? What was its shape? How frequently did it blow?
- (4) What was the animal's colour and colour pattern?
- (5) Did it have any highly distinctive markings?
- (6) If it was a large or a medium-sized animal, did it show its flukes when it began its dive?
- (7) If it was a medium sized or a small animal, did it approach, avoid or ignore the vessel? Did it bow ride?
- (8) What was its behaviour? Did it breach? Was such breach graceful, with a headfirst re-entry, or characterized by a loud or splashing re-entry?

One characteristic is rarely sufficient by itself and the greater the amount of information the observer can obtain and record, the greater the likelihood he/she or some more qualified reviewer can make a correct identification.

LARGE WHALES (12-26 meters maximum length)

WITH A DORSAL FIN

There are five species of large whales with a dorsal fin in the temperate eastern North Pacific. Four of them belong to the same major baleen whale group, the balaenopterid whales or rorquals, and the fifth is the largest of the toothed whales, the sperm whale.

All the rorquals have a series of ventral pleats, usually visible on stranded specimens. The length and