



Rainforest Animals

The hot, humid conditions which encourage a wide variety of life in the rain forests, change little during the year. Daily variations are greater than seasonal ones. The average temperature is about 27°C, while the rainfall (may be as high as 160 inches) falls regularly - often in heavy thunder-storms.

Animals of the rain forests are provided with a variety of habitats in the different layers of the forest trees. Some live at the top of the tallest trees while others live in the lower zones. Some animals, live on the ground level or even below the surface and so we have this vast and complex pattern of plant and animal life which has been evolving steadily for millions of years.

Sadly, man can all too easily upset the delicate 'balance of nature' and this is already happening in South America and Indonesia where vast areas of forests have been cleared and the plight of already rare species has been made even more precarious. The forests are being cut down to either sell and export the timber or to clear areas due to the demand for more land by an ever increasing population.

Two-Toed Sloth (*Choloepus hoffmanni*) - Central & South America

There are two species of two-toed sloth in S. America - Hoffman's (or Unau) found in the forested regions of northern S. America from Ecuador to Costa Rica, and (*Choloepus didactylus*) in Brazil.

Sloths are slow-moving, tree-dwelling animals that spend almost the whole of their lives hanging upside down from the branches of trees where the growth of algae on their hair provides the excellent greenish camouflage that makes them so difficult to spot.

When they are on the ground - perhaps due to a branch breaking - sloths can only move with difficulty.

They eat leaves and fruit. In addition to the two-toed sloths there are three species of three-toed sloth found

in the rain forests of South America

Gorilla (*Gorilla gorilla*) - Central West Africa



Gorillas live in the dense forest of tropical Africa where observation of their daily life becomes extremely difficult. Despite recent successful observations of the mountain gorilla in Zaire, much of their life in the wild remains a mystery.

There are two forms of gorilla. The lowland gorilla and the shaggy-coated mountain gorilla, which was only discovered in 1901.

Largest of all the living primates, an adult male will stand 512 feet tall, with an arm spread of about 8 feet. It will weigh between 400 and 600lb, usually around 450 lb.

Despite its size and great strength, the gorilla is not an aggressive animal and will not usually attack unless its safety, or that of its family, is threatened. Vegetarian in diet, the gorilla leads an orderly family existence, spending much of the day consuming an intake of about 60lb of leaves and fruit!

Giant Anteater or Antbear ?

Central and South America



In the tropical forests of Central and South America lives the giant anteater or antbear. The antbear can be seven feet in length from its long narrow snout to its bushy tail. It has an extremely long sticky tongue which darts from its snout as it licks up ants or termites, after it has torn open the insects' nest with its powerful curved claws.

Lesser Malay Chevrotain (*Tragus javanicus*) - S. Asia, Sumatra, Java, Borneo

Standing only about 12 inches high at the shoulder, the chevrotain or mouse-deer is one of the smallest of all hoofed animals. Moving on pencil-thin legs, this little animal is a timid forest-dweller, feeding on flowers, fruits, vegetable matter and young leaves.

There are four species in this family; three live in Asia and one in Africa. The males have long upper canine teeth which protrude like fangs below the lips. Neither sex has horns or antlers. In Malay folklore the

chevrotain is credited with great cunning (for how else could he evade the many different predators who hunt him?).

Siamang Gibbon (*Hylobates syndactylus*) - Malaya and Sumatra

The siamang is the largest of the seven kinds of gibbon, all of which live in the rain forests of southern Asia. Gibbons are the smallest members of the Ape family and they spend most of their life up in the trees. Their arm over arm movement through the tree tops (known as brachiation) has resulted in the gibbon having very long arms and rather short legs. The saimang stands about 3 feet tall, but his arm-span may be 5 feet. Alone among the gibbons, the siamang has a huge vocal sac on the throat which helps him to produce his very loud (and often blood curdling) calls. Food consists of fruit, leaves, insects, young birds and eggs.

OCELOT (*Felis pardalis*) -

Central and South America



The ocelot, known in Mexico as the 'tigrillo' or 'little tiger', ranges through the forest regions of Central and South America from Texas in the north to Brazil and Paraguay in the south. It is the third largest of the South American cats after the jaguar and puma.

A fully grown male measures about 412 feet from nose to tip of tail. Its beautiful spotted coat provides excellent camouflage in its forest home where it preys on a wide variety of animals, including small deer, agoutis, rats, peccaries, pacas, birds and some reptiles.

Sadly, it is much hunted by man for its fur, and it is now seriously threatened. In areas where it is heavily hunted it has become a nocturnal animal, but elsewhere it can be seen in daylight. Although it can climb, the ocelot seems to hunt mainly on the forest floor.

Black Tree Kangaroo (*Dendrolagus ursinus*) - New Guinea

Nine species of tree kangaroo are listed; seven of them live in the dense rain forest of New Guinea, while the other two species inhabit the forests of northern Australia.

These animals are about the same size as a wallaby but differ in appearance and have much longer forelimbs and broader feet on the back legs.

Although the tree kangaroo may look rather slow and clumsy on the ground, it can climb quite quickly and with surprising agility. Unlike the majority of kangaroos, tree kangaroos are nocturnal animals, spending the daytime asleep in the trees and then coming down to ground level to spend the night on the forest floor.

Once again, despite their awkward shape for tree-dwelling, these animals can move well in trees and have been known to jump 20 feet from one tree to another. They descend trees tail first. Food consists of leaves and fruit.

Okapi (*Okapia johnstoni*) - Central Africa

Unknown to science until 1900, when it was discovered by H.H. Johnston, the Okapi is the only living relative of the giraffe and shares the family name Giraffidae.

This large animal has shorter legs than the giraffe and a shorter neck. It stands about 5ft (approximately 112 metres) at the shoulder and has a sleek purplish coloured coat with black and white bars on the legs. The head is giraffe-like, with a long muzzle, mobile lips and a long tongue for seizing foliage. The horns, which occur only in the males, are capped with a small polished tip which alone protrudes from the skin covering.

Okapis live in the densest parts of the rainforest, where they live a solitary existence or move in pairs. They feed on leaves of trees, shrubs and epiphytes. The colouring of the okapi renders it practically invisible even at a short distance.

Common Tree-Shrew (*Tupaia glis*) - S.Asia, Sumatra, Java, Borneo

One of eighteen species of tree-shrew, this remarkable little animal was mistakenly identified as a shrew when it first came to the notice of zoologists. Subsequent investigation proved that this animal was not an insectivore at all, but a very primitive Primate, a member of the family which includes lemurs, monkeys, apes and man! The tree-shrew is a surviving relic from many millions of years ago.

About 14 inches in length, the animal is a skilful climber. Its food consists of a wide variety of plant and animal life.

Orang-Utan (*Pongo pygmaeus*) - Borneo and Sumatra

Although probably once represented on the mainland of Asia, the orang-utan population of about 5000 is confined to the islands of Borneo and Sumatra. While they are protected on both islands, the steady destruction of their forest territory poses a constant threat to their future.

The orang-utan is the second largest of the apes and the heaviest of all the tree-dwellers It is also the only

great ape to be found outside Africa.

Heavily built, with a height of about 412 feet and a weight of around 200lb, this ape is normally a rather lethargic mover. It has powerful arms and weak legs, and when on the ground it tends to use the arms as crutches, swinging the body along.

Despite their build and normally lethargic state, the orang-utans are capable of quite rapid movement should the need arise.

Seriously threatened, the orang-utan needs full protection if it is going to survive.

Malayan Pangolin (*Manis javanica*) - South-east Asia

Pangolins, or scaly anteaters, are found in tropical Africa, south and south-east Asia.

There are four species in Africa and three in Asia. Although they resemble reptiles, these animals are mammals and their 'scales' are simply mammal hairs, flattened and modified into overlapping plates.

Like the armadillo, the pangolin rolls himself into a tight ball when threatened. The tail is prehensile and it permits the pangolin to hang from the branch of a tree when all four limbs are needed for other purposes such as an attack on a termites nest. Here, the powerful claws rip open the nest while the long sticky tongue mops up the termites. Termites and ants are the chief items of food. Pangolins are completely toothless. Little is known about their ancestry.

Javan Rhinoceros (*Rhinoceros sondaicus*) - S. Asia, Sumatra, Java

All five species of rhinoceros are threatened with extinction. The three Asian species are in great danger, and there are doubts that the rhinoceros can survive in Asia beyond the end of this century.

Like so many other animals, the Javan rhinoceros has suffered heavy persecution at the hand of man, and this once common species declined so rapidly in numbers that in the late 1960's it was thought there were only 24 survivors in the wild.

Thanks to careful conservation and protection the Javan rhinoceros has steadily increased in number over the past few years and in 1991 it was estimated that there might be as many as 60 living in the dense forests of its range. It is the destruction of these forests that will threaten all the successful protection achieved through the efforts of many conservationists from several countries.

The Javan and Gt. Indian rhinoceros have only one horn, the Sumatran rhinoceros has two. The Sumatran is the smallest and hairiest of all the five species.

Slender Loris (*Loris tardigradus*) - South India and Ceylon

The family Lorisidae includes the slow-moving lorises of Asia, the equally slow angwantibo and potto of Africa, and the anything but slow-moving galagos or bushbabies found in southern and eastern Africa.

The slender loris lives in the jungles of southern India and Ceylon. It is a lightly built creature with long, spindly legs, slender body and large brilliant eyes. At one time the eyes of the slender loris were used as an ingredient of love potions!

It is a nocturnal animal, sleeping through the day and waking at sunset to move stealthily through the trees in search of its diet of insects, small birds, lizards and fruit.

Malayan Tapir (*Tapirus indicus*) - Malaysia

Tapir is the name given to the four surviving species of this large woodland mammal which form the family Tapiridae of the order Perissodactyla (odd-toed hooved animals). They are heavily built creatures with four front and three hind toes, a practically non-existent tail and with the nose and upper-lip forming a short flexible trunk.

Three of the four species live in Central and South America, but the fourth is to be found in the rainforests of Malaysia. The Malayan Tapir is easily recognised by his black and white colouring. This animal may stand 312 feet (approximately 1 metre) at the shoulder. It is shy, nocturnal and quite inoffensive, frequenting deep forests and keeping close to water and mud. Its diet is exclusively vegetarian. The young are spotted and striped with white.

Jaguar (*Panthera onca*) - Central and South America

This is the largest of the New World cats, a fully grown male measuring up to 8ft from nose to tip of tail. It is a heavier animal than the leopards of Africa and Asia although similar in size. The jaguar differs from the leopard in having a more powerful head, shorter tail and stout legs. It is found on the edges of forests and often beside rivers from the southern United States to northern Argentina. Unlike most cats it seems to like water and obviously enjoys swimming. It will even fish with its paws. The diet of the jaguar includes capybaras, peccaries, deer, agoutis, tapir and fish. Heavily hunted by man for its skin, the jaguar is steadily declining in numbers - and the destruction of the rain forests will speed this decline considerably.

Snakes

Snakes, like all reptiles, are cold-blooded animals which cannot adjust their body temperature internally. The constant warmth and humidity of tropical rain forests provide an ideal habitat where snakes can live without having to shelter from heat or cold.

Snakes of the rain forest are well adapted to an arboreal or tree-dwelling existence. Many have long thin bodies with angled scales on their bellies which help the snakes to grip branches. Other species have developed 'wings', enabling the snake to escape predators by gliding to another tree or the ground. Ground-dwelling snakes track by scent but in the trees the scent trail is broken whenever the prey crosses to another branch, so many tree-living species hunt by sight. Some have prehensile tails which can grip a branch firmly while the rest of the body moves on. Snakes are well camouflaged; the most common colours are green or brown to match leaves or bark, often with a twig-like or leaf-like pattern.

Boas

Like the pythons of Africa and Asia the boas of South America kill by constriction. The largest boa is the anaconda, which averages 35ft in length and hunts along river banks. Other boas include the boa constrictor and the emerald tree boa.

Pythons

Pythons include many species of non-poisonous snakes which kill their prey, such as birds and small mammals, by constriction. The snake coils its long body round its victim and squeezes it to death. The largest python is the reticulated python of Asia; it can grow to 33 ft long and weigh 300 lb. The 3 ft long burrowing python of Africa is the smallest python.

Venomous Species

Poisonous snakes use their venom mainly for feeding rather than for defence. There are three main groups:

a) Rear-Fanged Snakes

The snakes in this group have the two or three rearmost teeth of the upper jaw enlarged and grooved for injecting venom. Few species are very poisonous and only two, both African tree snakes, are dangerous to man.

b) Front Fixed-Fang Snakes

The fangs of these snakes are fixed at the front of the upper jaw. This group includes many deadly species, such as the mambas of Africa, the cobras of Africa and Asia, and the coral snakes of the New World.

c) Folding Fang Snakes

These snakes have a large pair of poison fangs at the front of the upper jaw. The fangs lie flat when not needed and are raised when the snake strikes. The group consists of the vipers and pit-vipers, for example the rattlesnakes and the bushmaster snake of Central and South America.

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