



Furcifer pardalls adult male. Photo N. Diez Sosch

Furcifer pardalis are recognized, entiated, not so much in morphology but by coloration. The various forms are popular in captivity, and are known by unofficial and taxonomically invalid names, mainly from the localities of their origins e.g., Ambanja, Nosy Be, etc.

### Habitat

The panther chameleon lives exclusively in coastal lowlands. These areas are warm and humid, with average temperatures ranging from 22 to 28°C (72-82°F) throughout the year, and daily temperature fluctuations of 6 degrees Celsius (about 11 degrees Fahrenheit). Temperatures in the summer can reach 40°C (104°F). The relative humidity is generally between 70 and 100 percent. The yearly climatic cycle is

Although no subspecies of characterized by a long rainy season ent from that of females, but this is lasting from November to March, various populations are well differ- and a dry season for the rest of the



Furcifer pardalis adult female, Photo: N. Diez Bosch

even in the dry season. Annual precipitation is about 2,000 millimeters,

This species has no particular habitat preference. It is found almost anywhere, including on shrubs, trees, palm trees, electrical wires, cultivated plants; beaches, etc. The only limiting factors seem to be availability of food and sufficient warmth and light. Because the panther chameleon has a low degree of habitat specificity. it is also able to invade agricultural land. In such altered areas it replaces other lizard species, and particularly other chameleons, that are not so ecologically adaptable.

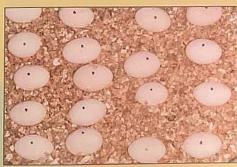
# Description

Furcifer pardalis is one of the largest chameleons. Males are known to reach more than 52 centimeters in total length (although most are under 40 centimeters); females are significantly smaller. The entire body is covered with various oval scales. Only medial scales are conical, forming the dorsal and gular crests. In males, two flattened bony protuberances arise from the fusion of rostral crests and are covered with enlarged scales. These two horn-like structures are absent in females and juveniles.

The coloration of males is differdifficult to describe due to the high degree of variation. Females are year. The coastal air remains humid mostly gray, brown, pink, orange,



Copulation. Photo N Diez Bosch



Furcifer pardalis eggs. Photo: P. Nečas



red, or reddish, whereas males are more colorful, showing a higher degree of contrast, and displaying more blues, greens, and yellows. Both sexes have color patterns consisting of about five pale and five dark bands extending over the dorsum to the belly. They also have similar banding on the tail and limbs. There are radiant stripes on the head, and there is a longitudinal stripe extending from the shoulder to the pelvis on each side. Sexual dimorphism is apparent, with males being distinguished by their "horns" and broader tail base.

Furcifer pardalis is an agile, fast moving (and even jumping) chameleon. Most specimens adjust well to captivity and do not react to the presence of humans. Males are intolerant of one another, however, and their fights can result in serious injury. In any case, aggressive behavior is displayed only when the males get too close, coming within a critical distance. Male-female interaction is not entirely neutral, and more often it is the female that bites the male.



Furcifer pardalis adult shedding and eating Photo: N. Diez Bosch



Hatchling panther chameleon. Photo: J. Fernández Pacheco

visual contact is common.

### Captive housing

The terrarium for an individually housed Furcifer pardalis should mea-

Panther chameleons live in dense sure about 80 x 60 x 80 centimeters (L populations - one individual for x W x H). The substrate should conevery couple of square meters - so sist of moist sand and moss, and there should be potted plants and branches for climbing. Light can be provided with a white fluorescent tube, and a diagonally mounted spot lamp for extra heat. Daytime temperatures in the enclosure should be about 30°C (86°F). Normal room temperature is adequate at night, but it is important not to let these animals get too cool. Even only a few days exposure to temperatures near 20°C (68°F) can cause irreversible metabolic damage. Slow airflow through a well-planted terrarium seems to be more appropriate than intense ventilation, which is not required. Misting regulates the humidity, with frequency depending on the simulated season.

## Diet

The panther chameleon feeds on practically any animal of appropriate size, including crickets, grasshoppers, locusts, yellow worm larvae, greater waxmoth larvae, scarab larvae, small mice, and so on. In the wild, this species even eats small geckos and snakes. On the other hand, some snakes (e.g. Lioheterodon madagascariensis) are known to prey on these chameleons occasionally.

Vegetation also forms part of the diet. Panther chameleons have been observed feeding on leaves e.g., spiderwort, Tradescantia; and pothos, Epipremnum aureum) and pink flowers. However, plants are eaten only occasionally, usually during periods of water shortage. These chameleons can be taught to drink from a syringe or pipette, but

prefer to lick water droplets from surfaces. For proper nutrition, the food and water given to captive panther chameleons must be saturated with plenty of vitamins and minerals.

# Reproduction

Breeding panther chameleons is not difficult, and this species is quite frequently reproduced in captivity. Males can mate at virtually any time of year, but mating behavior in the wild is periodic. It is the female that decides whether mating takes place. She expresses her readiness by displaying certain colors (mostly orange in the Nosy Be populations), and tolerant behavior toward the keeper, without signs of intimidation (hissing, inflating the body, tail whisking, swinging, opening the mouth, etc.) or biting. In this case, the male and female can be placed together either loose in a room, or by placing the female into the male's enclosure.

A male that is ready to mate displays bright colors and swings from side to side while slowly approaching the female. If the female is not receptive, the male retreats. If she is receptive, the male mounts her back and grasps her tail with his hind leg, massaging it for a few minutes. The two animals then join cloacas and stay together for another few minutes.

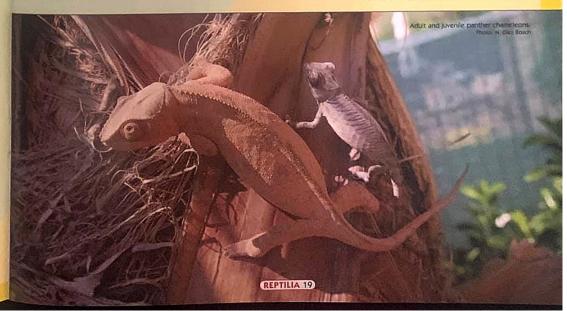


Furcifer pardalis juveniles of different ages. Photo: N. Diez Bosch



Adult and juvenile panther chameleons. Photo N Diez Bosch







Colorful adult parither chameleon. Photo J. Fernández Pacheco.

place within 159-362 days. Hatching can take



Also, copulation might occur too soon.

# di Rinaldi Denis

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