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Abstract: Few people see the clouded leopard, and its elusiveness makes it a difficult subject for scientific study. In Sumatra, there has been no serious research on the species, and the authors present the scanty information on its distribution there and stress the urgent need for a survey to establish the whereabouts of viable populations.
The clouded leopard in Sumatra

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Few people see the clouded leopard, and its elusiveness makes it a difficult subject for scientific study. In Sumatra, there has been no serious research on the species, and the authors present the scanty information on its distribution there and stress the urgent need for a survey to establish the whereabouts of viable populations.

The conversion of primary forest into agricultural holdings has seriously affected the clouded leopard Neofelis nebulosa diardi in Sumatra, where it is estimated that 65–80 percent of lowland forest has been lost already (Whitten et al., 1984). The highlands have been less seriously affected, but the scanty information available suggests that perhaps 15 percent of montane forest has gone.

Before 1900, when most of Sumatra was covered in primary forest, the clouded leopard was probably distributed throughout the island. Now there is direct evidence of the presence of clouded leopard in only about 3 percent of the island's area (Figure 1). It has been generally believed that the clouded leopard requires primary forest (Kurt, 1970), but available information suggests that it is in fact moderately versatile and adaptable in its requirements, and less strictly arboreal than has been claimed. Its tracks were reported as being frequent in Barisan Selatan National Park, which has suffered seriously from illegal felling, uncontrolled fuel-wood collection and shifting cultivation by transmigrants from Java and Bali (FAO, 1981a). Its tracks have also been seen in a lowland forest in the southern part of Jambi province, where almost half of the forest area had been selectively logged a year previously (Blouch, 1984), and it has been reported from secondary forest in Gunung Leuser National Park (Kurt, 1970). It still occurs in Way Kambas Game Reserve (R. Widodo, pers. comm.), where felling and burning have converted over two-thirds of its lowland dipterocarp forest into Imperata grassland (Caufield, 1984).

However, it is essential that a variety of medium-sized mammals is available as prey, with a substantial proportion being arboreal. Unlike the other felids of Sumatra, it can hunt entirely in the canopy, and it can jump more than 5 m between trees. Primates, including the larger species, are reported to be the main items of diet, with other prey including deer and pigs (Payne et al., 1985), and even a limited amount of fish in wetland areas.

Figure 1 shows the areas where there is evidence that clouded leopard populations are still probably healthy. These are listed below, and the main source of records of clouded leopards is given in each case.

(a) Gunung Leuser National Park, 10,000 sq km, covering a wide variety of mountain forests (Kurt, 1970).
(b) Torgamba production forest, 1000 sq km, lowland forest (R. Blouch, pers. comm.).
(c) Togapala hills, 2000 sq km, mainly below 700 m and, like Torgamba, has a lowland flora (Blouch and Simbolon, 1985). The forest on the steeper slopes is managed as protection forest, that in the valley as production forest.
(d) Kerinci-Seblat National Park, the largest in Sumatra, 15,800 sq km, following the axis of the

mountain chain from north-west to south-east, and overlapping the borders of four provinces (FAO, 1981b).
(e) Garmul Pasemah Game Reserve, 450 sq km, partially logged montane forest (Blouch, 1984).
(f) Barisan Selatan National Park, 3500 sq km, modified lowland forest (FAO, 1981a).
(g) Way Kambas Game Reserve, 1300 sq km, modified lowland forest on the eastern coast (R. Widodo, pers. comm.).

It is quite possible that the species survives in good habitat elsewhere (Figure 1). Given the large areas where the clouded leopard may be present, but has not yet been searched for, one could maintain that the situation, although clearly requiring monitoring, is not yet serious. It would be more prudent, however, to plan on the basis that there are only two known populations of clouded leopard that appear to be safe from immediate threat, those in Gunung Leuser and Kerinci-Seblat National Parks. Elsewhere the clouded leopard is threatened not only by habitat loss, but also by poisoning and the high commercial value of the pelts in the illegal trade.

There is an urgent need for a survey to determine the whereabouts of viable populations, particularly in the remaining unfragmented lowland forest. Even more important, the problem concerning the clouded leopard provides yet one more compelling argument for ending the indiscriminate felling and deforestation that have been sweeping across Sumatra.

References


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