## **Conservation ecology of red panda (Ailurus fulgens)** in Himalayas

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## Abstract

Red panda (Ailurus fulgens) is listed as endangered in IUCN red Higher bamboo cover, bamboo height and canopy cover emerged on red pandas' diet. The habitat preference of red panda was sites 1 and 2, it had a very narrow preferred range of 2800-3100 NationalPark, needsfurther investigation. m.

data list, protected for Nepal and distributed in Himalaya region of as important habitat components in sites used by red panda Nepal, and is commonly known as "Habre" in Nepalese language. (Animal centered plots) compared to random plots. Red panda diet The species is distributed in different protected areas of Nepal, consisted chiefly of bamboo leaves and both species of bamboo, however the detailed information on ecological, biological and Arundinaria maling and A. aristata predominantly present as conservation aspect are still lacking. The study was conducted in understorey in Singhalila National Park were eaten. The diet of Dhorpatan Hunting Reserve (DHR), Nepal to investigate diet, bamboo was supplemented by seasonal fruits and bamboo shoots. habitat preference and distribution of red panda. Micro histological However, the composition of diet differed between the three study fecal analysis methods were used to investigate feeding species sites and the impact of this, if any, on the overall ecology of red panda in the Singhalila National Park, needs further investigation. analyzed by using lvelve's electivity index. A total of 120 plots Some conservation problems are discussed. Red panda, Ailurus were laid out for sampling the vegetation (trees, shrubs, and fulgens is a poorly known Himalayan member of Carnivora which herbs respectively) and habitat features. Red panda preferred has adapted to a herbivorous diet. The present study conducted in gully with forest area and tree species Acer caesium (IV=1). Most the Singhalila National Park in the eastern Himalayas was initiated important forest species in the habitat of red panda were Abies to gain information on the ecology and conservation problems of spectablis (IVI=66.22) and Betulautilis (IVI=17.15) with ground the red panda. Indirect and direct evidence was used to assess its cover of Arundinaria spp. Red panda preferred 3000-4000 m distribution, relative abundance, habitat use and food habits in the elevation range, 26-50% slope, 51-75% crown cover and 26-50% National Park. Red panda was relatively more abundant within an ground cover. Arundinaria spp. was found as a major (81.7%) diet altitudinal range of 2800-3600 m. In study sites 1 and 2, it had a of red panda. For protecting this species human consumption of very narrow preferred range of 2800-3100 m. Higher bamboo the Arundinaria spp. should be discouraged. Red panda, Ailurus cover, bamboo height and canopy cover emerged as important fulgens is a poorly known Himalayan member of Carnivora which habitat components in sites used by red panda (Animal centered has adapted to a herbivorous diet. The present study conducted plots) compared to random plots. Red panda diet consisted chiefly in the Singhalila National Park in the eastern Himalayas was of bamboo leaves and both species of bamboo, Arundinaria maling initiated to gain information on the ecology and conservation and A. aristata predominantly present as understorey in Singhalila problems of the red panda. Indirect and direct evidence was used National Park were eaten. The diet of bamboo was supplemented to assess its distribution, relative abundance, habitat use and food by seasonal fruits and bamboo shoots. However, the composition habits in the National Park. Red panda was relatively more of diet differed between the three study sites and the impact of abundant within an altitudinal range of 2800-3600 m. In study this, if any, on the overall ecology of red panda in the Singhalila