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NOTE

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PHOTOGRAPHIC EVIDENCE OF STRIPED HYENA *HYAENA HYAENA* (MAMMALIA: CARNIVORA: HYAENIDAE) IN RAMNAGAR FOREST DIVISION, UTTARAKHAND, INDIA

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The Striped Hyena *Hyaena hyaena* has a large but inconsistent range extending from eastern Africa through the Middle East to India. The Striped Hyena is classified as Near Threatened on the IUCN Red List because of persecution, depletion of prey, and its habitat being converted to agricultural lands (Arunugam et al. 2008).

It is also a known fact that hyenas are scavengers in their habitat (Kruk 1976; Prater 1980; MacDonald 1984; Boitani & Bartoli 1986; Hofer 1998; Menon & Daniel 2003) but there were accounts of them feeding on insects, reptiles, rodents, birds, vegetables, and livestock (Heptner & Sludsky 1972; Rieger 1981; Mills & Hofer 1998; Lukarevsky 2001; Singh et al. 2010).

The species is known to exist around human settlements and to survive by consuming dried bones, carcasses, and fruits (Kruk 1976; Hofer 1998). In India, Striped Hyenas occur in arid and semi-arid ecosystems (Alam et al. 2014) and are also known to occur sympatrically with tigers (Prater 1971; Menon 2003; Harihar et al. 2010).

There is considerable evidence of the presence of hyenas in the Terai region of northern India — the first estimation of their population carried out in a moist mixed deciduous forest in Rajaji National Park indicated the presence of the species in low density, as these areas are highly disturbed. These habitats have a notable population of tigers and are similar to that of Ramnagar Forest Division (Harihar et al. 2010). Hyenas are one of the least studied large scavengers/carnivore species in India due to the dearth of its observed records. For instance, the Striped Hyena was last reported in Ramnagar Division, Uttarakhand, in the late 1970s (Working Plan Ramnagar Forest Division 1977).

This study was carried out in the Ramnagar Forest Division located in Uttarakhand (Fig. 1). The geographic extent of the area is from 78.10°–79.10° E and 29.56°–

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29.55°N and it covers a total of 48,736.90ha. The Ramnagar Forest Division is a forested landscape on the eastern boundary of the Corbett Tiger Reserve and northwestern boundary of the Terai Central Forest Division and Terai West Forest Division. It falls within the western circle of the Kumaun Forest and constitutes five forest ranges, namely, Kosi, Kota, Dechauri, Fatehpur, and Kaladhungi, which are interconnected by a trail of dense mixed forests from the eastern boundary of the Corbett Tiger Reserve up to Kaladhungi. The area is rich in faunal diversity, namely, tigers, elephants, leopards, ungulates, reptiles, and fish. The study targeted three of the forest ranges, namely, Dechauri, Kaladhungi, and Kota, which were identified on the basis of the presence of Hyena signs during a preliminary survey conducted from March to December 2015. These ranges were further divided into grids of 3km×3km and transects were laid in each grid. Confirmed signs for the species were recorded from 11 grids; these signs formed the basis for sites of camera traps, which provided photographic evidence of the species.

Here we report the first photographic image of a Striped Hyena in Ramnagar Forest Division, Uttarakhand (Image 1a captured on 12-07-2015 at 10:40hr). During camera trap survey from March to December 2015, a single image of a Striped Hyena was captured on camera. A total of 26 signs (Image 1b representing fresh pug-mark sign captured on 06-07-2015 at 07:15hr) were recorded during the survey at 11 different grids. The overall encounter rate was 1.39/km. The camera point where the image was captured was near Haathi Galiyaar Forest Barrier in Ramnagar Forest Division (29.55°N / 79.25°E) from which the nearest human settlement and water body (Dabka River) are 2km and 1km away, respectively. During the previous surveys conducted for monitoring Tigers, co-predators, prey and their habitats conducted in 2010, 2012, 2014, and 2016, there was no indirect sign/photographic evidence to confirm the presence of hyenas in the area. The only information regarding its presence was mentioned in the Working Plan Ramnagar Forest Division (1977). In the working plans published after 1977, there was no mention of this particular
Striped Hyena in Ramnagar forest division, Uttarakhand

Maurya et al.

Image 1. a - Camera trap image of Striped Hyena *Hyaena hyaena* recorded near Haathi Galiyaar Forest Barrier, b - pug mark of hyena found in Ramnagar Forest Division, Uttarakhand

species. The substantial proof of the presence of the Striped Hyena in Ramnagar Forest Division presented in this study can create opportunities for further research on the ecology, behaviour, and population estimation specific for the species in this region.

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