Project Update: November 2019

I am delighted to inform you that I participated in the "11th Asian Raptor Research and Conservation Network" that was held in Bali, Indonesia. I took part as a poster presenter using a data of the project entitled "Eagle of the Farmlands: biology, threats and their conservation actions of the Indian Spotted Eagle (*Clanga hastata* Lesson 1831) in Lowlands of Nepal" funded by The Rufford Foundation. I was rewarded as a best poster presenter in the conference. Below are photos of the awarded certificate, the articles abstract accepted for the conference book and the poster that was presented during the conference.





POSTER PRESENTATION ABSTRACTS

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Topic: Raptor ecology and climate change; Forest and raptors

Prey Item Selection and Prey Delivery of Indian Spotted Eagle during Chick-Rearing Period in Nepal

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The Indian Spotted Eagle (Clanga hastata) is a vulnerable species and distributed largely limited within the Indian sub-continent. This species is recently separated from Lesser Spotted Eagle (Clanga pomarina) and little information exists on the species' ecology and prey item selection. Here we present the first ever study on the diet of Indian Spotted Eagle during breeding season in lowlands of Nepal. In 2018, we conducted 720 hrs. observation on active nests (n = 3) during chick-rearing period (June - August) to record prey items delivery. In each day, observation was conducted from dawn to dusk that allowed us to record all deliveries of the day. We reported a total of 132 prey deliveries; frogs contributed the highest (70.3%) proportion among the selected prey items, followed by small mammals (14.41%), birds (7.58%), lizards (0.73%), and a small proportion of unidentified (6.93%) prey items. Male Indian Spotted Eagle delivered most of the prey items (94.70%) and female mostly fed the eaglets. The most preferred feeding time to the eaglet was between 16:00 - 17:00hrs, followed by 08:00 - 09:00 hrs. Average daily delivery rate of prey was 2.21 ± 0.73 (range = 0 - 3). Binomial test showed no significant difference in the deliverance of prey items before and after the noon time among in all active nests. Although this area is rich on several species of prey items their preference of frogs in a diet during breeding season could have two possible reasons. First, in our study area chick-rearing period of Indian Spotted Eagle occurs in the middle of monsoon season that favors the growth of frogs in the flooded fields making them easier to be hunted. Second, frogs' meat is softer than other prey items and nestlings of Indian Spotted Eagle might have preferred than others

Keywords: Indian Spotted Eagle, Nepal, Chick-rearing period, prey items frogs



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