Important Bird Areas in India - Sikkim

SK-01

BARSEY RHODODENDRON SANCTUARY



IBA Site Code	
State	
District	
Coordinates	
Ownershi p	
Area	
Altitude	
Rainfall	
Temperature	
Bi ogeographi c Zone	
Habitats	

IN-SK-01 Si kki m West Si kki m 27° 11' 39" N, 88° 07' 06" E State Forest Department 10, 400 ha 2, 000 - 4, 100 m >250 cm Not Avai I abl e Hi mal aya Subtropi cal Dry Evergreen, Subtropi cal Broadleaf HIII Forest, Al pi ne Moi st Scrub

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IBA CRITERIA A1 (Threatened Species), A2 (Endemic Bird Area 130: Eastern Himal ayas); A3 (Biome-5: Eurasi an High Montane; Biome-7: Si no-Himal ayan Temperate Forest) PROTECTION STATUS Wildlife Sanctuary, established in 1998

GENERAL DESCRI PTI ON

The 104 sq. km Barsey Rhododendron Sanctuary forms a vital corridor connecting the Khangchendzonga Biosphere Reserve (KBR) to its north with the Singalila National Park of West Bengal to its south. Five forest types are seen in this site: Subtropical Moist Deciduous Forests (2,200-2,400 m); Wet Temperate Forests (2,400-2,700 m); Moist Temperate Forests (2,700-3,250 m); Subalpine Forests (3,250-4000 m), and Alpine meadows (>4,000 m) (Sharma 2001). These diverse forest types shelter a wide range of faunal elements. This Sanctuary harbours some pure stands of Rhododendron, the dominant genus favored by the wet and cold climate along the Singalila Range and a variety of epiphytic orchids, ferns, mosses and lichens. Meadows take over from above 4,000 m and are rich in medicinal plants.

AVI FAUNA

This is an important IBA on the southeast corner of Sikkim with Nepal as its western border and contiguity with KBR and Singalila, stretching from alpine meadows down to subtropical forests. Birds from biomes 5, 7, 8 and 9 have been recorded here including at least three globally threatened species, two restricted range species, five out of 48 Biome-5 species, 38 out of 112 Biome-7 species, 21 out of 96 Biome-8 species and three out of 19 Biome-9 species. However, much more research input is needed (U. Lachungpa pers. comm. 2003). During a brief survey in September 1996, Biome-7 birds such as White-browed Tit-Babbler Alcippe vinipectus, Rufous Sibia Heterophasia capistrata, Grey-faced Leaf-Warbler Phylloscopus maculipennis, Orange-gorgeted Flycatcher Ficedula strophiata, Rufous-bellied Niltava Niltava sundara, Rufous-bellied Crested Tit Parus rubidiventris and Red-headed Bullfinch Pyrrhula erythrocephala were ringed with BNHS rings (Ganguli-Lachungpa 1996).

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Pallas's Fish-Eagle	Haliaeetus leucoryphus
Rusty-bellied Shortwing	Brachypteryx hyperythra
Black-breasted Parrotbill	Paradoxornis flavirostris
Endemic Bird Area-130:	Eastern Himal ayas
Rusty-bellied Shortwing	Brachypteryx hyperythra
Hoary-throated Barwing	Actinodura nipalensis

Biome-5: Eurasian High Monta	ne (Al pi ne and Ti betan)
Snow Partridge	Lerwa lerwa
Snow Pigeon	Columba leuconota
Hodgson's Redstart	Phoenicurus hodgsoni
Wallcreeper	Tichodroma muraria
Yellow-billed Chough	Pyrrhocorax graculus
Bi one-7: Si no-Hi mal ayar	n Temperate Forest
Common Hill-Partridge	Arborophila torqueola
Blood Pheasant	Ithaginis cruentus
Satyr Tragopan	Tragopan satyra
Himalayan Monal	Lophophorus impejanus
Speckled Wood-Pigeon	Columba hodgsonii
Darjeeling Pied Woodpecker	Dendrocopos darjellensis
Nepal House-Martin	Delichon nipalensis
Greater Long-billed Thrush	Zoothera monticola
White-collared Blackbird	Turdus albocinctus
Streaked Laughingthrush	Garrulax lineatus
Black-faced Laughingthrush	Garrulax affinis
Greater Scaly-breasted Wren-Babbler	Pnoepyga albiventer
Green Shrike-Babbler	Pteruthius xanthochlorus
Bar-throated Minla	Minla strigula
Red-tailed Minla	Minla ignotincta
White-browed Tit-Babbler	Alcippe vinipectus
Rufous Sibia	Heterophasia capistrata
Rufous-vented Yuhina	Yuhina occipitalis
Great Parrotbill	Conostoma oemodium
Fulvous-fronted Parrotbill	Paradoxornis fulvifrons
Grey-faced Leaf-Warbler	Phylloscopus maculipennis
Ferruginous Flycatcher	Muscicapa ferruginea
Slaty-backed Flycatcher	Ficedula hodgsonii
Orange-gorgeted Flycatcher	Ficedula strophiata
Rufous-bellied Niltava	Niltava sundara
Rufous-fronted Tit	Aegithalos iouschistos
Fire-capped Tit	Cephalopyrus flammiceps
Rufous-bellied Crested Tit	Parus rubidiventris
Brown Crested Tit	Parus dichrous

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Bi ome-7: Si no-Hi mal aya	an Temperate Forest
Green-backed Tit	Parus monticolus
White-tailed Nuthatch	Sitta himalayensis
Rusty-flanked Tree-Creeper	Certhia nipalensis
Fire-tailed Sunbird	Aethopyga ignicauda
Dark-breasted Rosefinch	Carpodacus nipalensis
Brown Bullfinch	Pyrrhula nipalensis
Red-headed Bullfinch	Pyrrhula erythrocephala
Gold-naped Black Finch	Pyrrhoplectes epauletta
Yellow-billed Blue Magpie	Urocissa flavirostris

OTHER KEY FAUNA

Notable mammals include Leopard Panthera pardus, Leopard Cat Prionailurus bengalensis, Yellow-throated Marten Martes flavigula, Masked Palm Civet Paradoxurus hermaphroditus, Goral Nemorhaedus goral, Barking Deer Muntiacus muntjak, Asian Black Bear Ursus thibetanus, Red Panda Ailurus fulgens, Crestless Porcupine Hystrix brachyura, and Himalayan Mouse-Hare Ochotona roylei. There are unconfirmed records of the Tibetan Wolf Canis lupus chanco and Wild Dog Cuon alpinus. Research is also needed on the herpetofauna and invertebrates of this IBA.

LAND USE

- q Forestry
- q Nature conservation and research
- q Eco-tourism and recreation

THREATS AND CONSERVATION ISSUES

- q Livestock grazing
- q Poaching, collection of medicinal plants
- q Recreation and tourism

Threats to forests in this IBA are yak and cow sheds, shepherds' activities, tree felling in forests, firewood and fodder collection, cattle trade from Nepal and landslides. Yak grazing was not a traditional activity but was started by foreign nationals from Nepal, with yak sheds multiplying from 1975 onwards. More



than the yaks, it is the caretaker who causes maximum damage through firewood collection, lopping of trees for fodder, smuggling of medicinal plants, hunting and trapping wild animals. In spring (March), once the snow starts melting, these graziers perform transhumance to the higher summer grazing grounds, moving in the peak monsoons along the traditional migration routes and camping in temporary yak sheds. Before the first snow arrives in November, they move back loaded with dairy products.

The areas adjacent to the yak sheds and their migration route are heavily overgrazed and consequently degraded (Tambe 2001). There is proliferation of unpalatable species around these sheds, namely Potentilla peduncularis, Meconopsis paniculata, and Caltha palustris in the alpine regions and Rumex nepalensis, Berberis and Rosa in the temperate regions.

The main cause of concern is the intensive, localized collection of firewood from the forests adjoining the yak sheds. At these altitudes, firewood is the only source of energy, which is met mostly from the slow growing Rhododendron shrubbery and Junipers. The graziers, especially the sheep graziers, indulge in trapping of the pheasants and wild mammals. The sheep dogs which are of immense utility to the graziers in rounding up the livestock are let loose during the night. They cause depredation of the pheasants, other ground nesting birds and their nestlings. Even small mammals are not spared. This has resulted in the wildlife becoming very shy, and as a result sightings are rare. Hence, though grazing per se may not be that damaging, the allied activities involved have highly deleterious impact on the biodiversity values of the Singalila Range that comprise this IBA.

Controlled tourism and livestock husbandry are the only two economic activities ecologically feasible in this region. Conventionally 'Eco-development' is carried out outside the sanctuary facilitated by the State Forest Department and aims at reducing the negative dependencies of the local communities on the natural resources of the sanctuary, the logic behind this approach being improving the socioeconomic status of the "High Impact Group". In the context of Barsey Rhododendron Sanctuary, the graziers constitute the "High Impact Group" and stay right within the sanctuary for all the twelve months of the year. Considering the kind of hardships they have to undergo in this tough terrain and inclement weather, most of them are eager to shift out to other alternate livelihoods. Some kind of capacity building and institutional support needs to be provided to these poor graziers as an alternative. Removing these graziers in a phased manner, employing a participatory approach, would be the biggest contribution to the well being of this unique ecosystem (Sharma 2001). This was attempted since 2001 and the State Forest Department has recently successfully removed cattle sheds from the Sanctuary (Sandeep Tambe pers. comm. 2003).

KEY CONTRI BUTORS

Sandeep Tambe and Usha Lachungpa

KEY REFERENCES

- Ganguli-Lachungpa, U. (1996) Baseline Bird Survey in Proposed Kitam Wildlife Sanctuary and other low-land forests of South Sikkim. Report submitted to Oriental Bird Club (Unpublished).
- Sharma, T. R. (2001) Eco-Development of Barsey Rhododendron Sanctuary (Unpublished). Department of Forests, Environment and Wildlife, Government of Sikkim.
- Tambe, S. (2001) Grazing in the Singalila Range, West Sikkim: A Detailed Report. Unpublished report to the State Forest Department, Government of Sikkim.

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