LOWLAND FORESTS OF SOUTH SIKKIM (MELLI-BAGUWA-KITAM, JORETHANG-NAMCHI, SOMBAREY)



IBA Site Code : IN-SK-07 State : Sikkim

District : South and West Sikkim

Coordinates : 27° 09′ 16″ N, 88° 19′ 48″ E

Ownership : State Forest Department

Area : c. 2,000 ha

Altitude : 400 - 1,000 m

Rainfall : Not Avail able

Temperature : Not Avail able

Bi ogeographic Zone : Hi mal aya

Habitats : Tropical Moist Deciduous Forest,

Tropical Secondary Scrub

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IBA CRITERIA: A1 (Threatened Species), A2 (Endemic Bird Area 130: Eastern Himal ayas);
A3 (Biome-9: Indo-Chinese Tropical Moist Forests)
PROTECTION STATUS: Not officially protected

GENERAL DESCRIPTION

Much of the South District of Sikkim is populated with townships, villages and agriculture holdings. The lowland forests of Sikkim lie at the southern end of the South District, bound to the south by the Great Rangit river, extending roughly from the foothills of the outer Himalayas to an altitude of about 1,000 m. This IBA includes the river valleys of Ramam, Rangit, Great Rangit and Tista and adjoins the Maenam-Tendong (an IBA) to its north.

Various species of orchids, Rhapidophora, wild banana, screwpines, nettles and giant bamboo are characteristic of this site. The Rangit Valley Sal Shorea robusta shows a unique association with the Chir Pine Pinus roxburghii (Bejoy Gurung pers. comm. 2003). In patches of protected forest, it is possible to see Sal being slowly dominated by Pine. Such patches are relatively poor in bird life (U. Lachungpa pers. comm. 2003).

AVI FAUNA

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Despite being the lowest altitude IBA in Sikkim, this site has records of birds restricted to biomes 9, 8, 7 as well as 5, perhaps due to seasonal altitudinal migration as well as the telescoping effect of the Sikkim Himalaya, where in a distance of c. 100 km, habitats ranging from lowland subtropical forests to high cold desert can be seen (Ali 1962). Hence, as many as 14 globally threatened and restricted range species and at least four Biome-5

Poaching is one of the major problems of this IBA.

species, 15 Biome-7 species, 33 Biome-8 species and seven Biome-9 species have been recorded from this IBA.

The lowland forests of Sikkim are home to several species identified as Near Threatened by BirdLife International (2001): Great Pied Hornbill Buceros bicornis now restricted to few sightings over tea estates, Red-breasted Partridge Arborophila mandelli (not recorded recently) and Ward's Trogon Harpactes wardi. The Nepal Wren-Babbler Pnoepyga immaculata could also occur here. During a survey conducted here in 1996, no potential habitat was found for the Rufous-necked Hornbill Aceros nipalensis.

Biome-5 species like Ibisbill Ibidorhyncha struthersii are regularly recorded in winter on the banks of the Great Rangit river; Wallcreeper Tichodroma muraria recorded from Trans-Himalayan Lhonak Valley (at Green Lake) and other high altitude sites is also recorded from this IBA. The Collared Falconet Microhierax caerulescens was found breeding in 1996 very close to human habitation, hawking dragonflies around the Fisheries Department pond at Baguwa but cleverly avoiding the mist-nets set around it. Ward's Trogon was sighted at Baguwa and Jorethang in October 1996 (Ganguli-Lachungpa 1996). All these records make this IBA a very interesting bird watching and conservation area.

Critically E	ndangered	
Oriental White-backed Vulture	Gyps bengalensis	
Slender-billed Vulture	Gyps tenuirostris	
Vul nera	ıbl e	
Red-breasted Hill-Partridge	Arborophila mandellii	
Rufous-necked Hornbill	Aceros nipalensis	
Rusty-bellied Shortwing	Brachypteryx hyperythra	
Slender-billed Babbler	Turdoides longirostris	
Black-breasted Parrotbill	Paradoxornis flavirostris	
Hodgson's Prinia	Prinia cinereocapilla	
Beautiful Nuthatch	Sitta formosa	
Endemic Bird Area 130:	Eastern Hi mal ayas	
Ward's Trogon	Harpactes wardii	
Rufous-throated Wren-Babbler	Spelaeornis caudatus	
Wedge-billed Wren-Babbler	Sphenocichla humei	
Black-browed Leaf-Warbler	Phylloscopus cantator	
White-naped Yuhina	Yuhina bakeri	

Important Bird Areas in India - Sikkim

Bi ome-5: Eurasi an High Monta	ane (Al pi ne and Ti betan)
Ibisbill	Ibidorhyncha struthersii
Grey-backed Shrike	Lanius tephronotus
Hodgson's Redstart	Phoenicurus hodgsoni
Wallcreeper	Tichodroma muraria

Bi ome-7: Si no-Hi mal	ayan Temperate Forest
Common Hill-Partridge	Arborophila torqueola
Darjeeling Pied Woodpecker	Dendrocopos darjellensis
Nepal House-Martin	Delichon nipalensis
Chestnut-headed Tesia	Tesia castaneocoronata
Grey-bellied Tesia	Tesia cyaniventer
Aberrant Bush-Warbler	Cettia flavolivacea
Grey-faced Leaf-Warbler	Phylloscopus maculipennis
Orange-gorgeted Flycatcher	Ficedula strophiata
Ultramarine Flycatcher	Ficedula superciliaris
Slaty-blue Flycatcher	Ficedula tricolor
Sapphire Flycatcher	Ficedula sapphira
Rufous-bellied Niltava	Niltava sundara
Rufous-fronted Tit	Aegithalos iouschistos
Fire-capped Tit	Cephalopyrus flammiceps
Yellow-bellied Flowerpecker	Dicaeummelanoxanthum

Bi ome-8: Si no-Hi mal aya	n Subtropical Forest
Rufous-throated Hill-Partridge	Arborophila rufogularis
Elwes's Crake	Porzana bicolour
Slaty-headed Parakeet	Psittacula himalayana
Hodgson's Frogmouth	Batrachostomus hodgsoni
Blyth's Kingfisher	Alcedo hercules
Golden-throated Barbet	Megalaima franklinii
Blue-throated Barbet	Megalaima asiatica
Bay Woodpecker	Blythipicus pyrrhotis
Blue-naped Pitta	Pitta nipalensis
Black-winged Cuckoo-Shrike	Coracina melaschistos
Short-billed Minivet	Pericrocotus brevirostris
Striated Bulbul	Pycnonotus striatus
Himalayan Bulbul	Pycnonotus leucogenys
White-throated Bulbul	Alophoixus flaveolus
Orange-bellied Chloropsis	Chloropsis hardwickii
Slaty-backed Forktail	Enicurus schistaceus
Grey-sided Laughingthrush	Garrulax caerulatus
Red-faced Liocichla	Liocichla phoenicea
Rusty-cheeked Scimitar-Babbler	Pomatorhinus erythrogenys
White-hooded Babbler	Gampsorhynchus rufulus
Blue-winged Minla	Minla cyanouroptera
Rufous-backed Sibia	Heterophasia annectans
Black-chinned Yuhina	Yuhina nigrimenta
Grey-headed Parrotbill	Paradoxornis gularis
Lesser Rufous-headed Parrotbill	Paradoxornis atrosuperciliaris
Greater Rufous-headed Parrotbill	Paradoxornis ruficeps
Slaty-bellied Tesia	Tesia olivea
Small Niltava	Niltava macgrigoriae
Maroon Oriole	Oriolus traillii
Grey Treepie	Dendrocitta formosae
Black-browed Treepie	Dendrocitta frontalis

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Himalayan Golden-backed Woodpecker	Dinopium shorii
Pale-headed Woodpecker	Gecinulus grantia
Black-backed Forktail	Enicurus immaculatus
Greater Necklaced Laughingthrush	Garrulax pectoralis
Sultan Tit	Melanochlora sultanea
Crow-billed Drongo	Dicrurus annectans

OTHER KEY FAUNA

The lowland fauna includes Golden Jackal Canis aureus, Leopard Cat Prionailurus bengalensis, Himalayan Crestless Porcupine Hystrix brachyura, Assamese Macaque Macaca assamensis, Barking Deer Muntiacus muntjak, Tree Shrew Tupaia belangeri, squirrels, fruit bats, a host of butterflies and other invertebrates, riverine fish (over 40 species), Indian Rock Python Python molurus, geckos, freshwater frogs and toads.

LAND USE

- q Agriculture
- q Forestry
- q Nature conservation and research
- q Watershed management
- q Urban / Industrial / Transport

THREATS AND CONSERVATION ISSUES

- a Forest fires
- Disturbance to birds
- q Spread of weeds and exotic snails
- q Urbanization and effects
- q Use of biocides for agriculture

The lowland forests of Sikkim have not yet been included in the Protected Area Network of the State. However a representative area of the Kitam Reserve Forest was proposed to be notified as a Bird Sanctuary (Sandeep Tambe pers. comm. 2003).

Population-wise, the entire South District of Sikkim is second largest after the East District. There are 144 inhabited revenue blocks. This area has been experiencing frequent occurrences of forest fire and was selected as a case study for watershed analysis (Sandeep Tambe pers. comm. 2003).

Habitat loss and fragmentation: The original forest as seen on the Survey of India map of more than 20 years ago, all along the course of the Rivers Tista and Great Rangit, is today a very narrow forest belt fragmented for the most part. Lowland forested areas between Jorethang and Melli are comprised of the Reserve Forests of Majhitar, Kitam and Melli-Ralu-Sumbuk. A metalled road runs right through carrying heavy vehicular traffic. The major townships of Jorethang, Melli and Rangpo are all along this route. The area has also been set aside as the industrial development zone with a range of establishments from a small glass factory to the Manipal University complex, beer factories and LPG bottling plant. New hydoelectric projects have also been taken up in this zone.

Timber poaching from across the state border was reported by local people as the principal cause of lack of old large trees especially Teak Tectona grandis. In-depth study and long term monitoring of the lowland forests, especially the vanishing Sal forest belt of Sikkim is urgently required.

Livestock grazing: Cattle were grazed in almost all forest areas till a ban on grazing in reserve forests was instituted in 2002. Spread of weeds like Lantana, Mikania and Eupatorium is noticeable in many areas. In recent years, the spread of an accidentally introduced exotic species of snail has been reported to be causing crop damage. Use of biocides in agriculture is being phased out by the State government in an effort to become an 'organic state'.

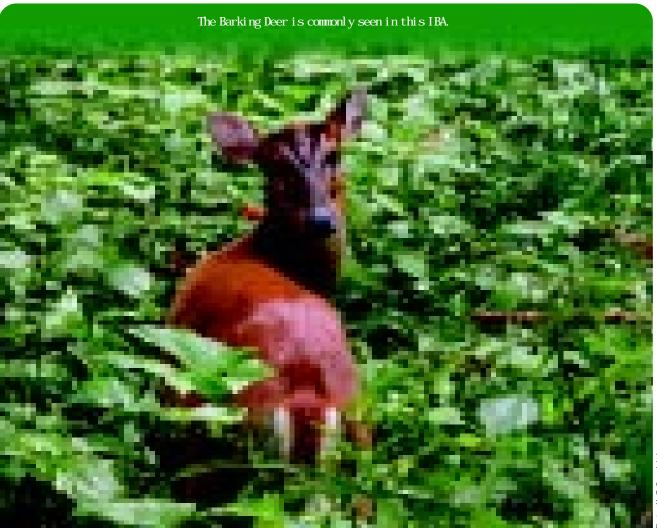
Dynamiting and poisoning of water for fish: People reported this all along the Ramam Khola and at Manpur below Kitam.

There is evidence of forest fires in parts of Kitam where several scorched Chir Pines can be seen.

In addition to the above-mentioned biotic pressures, Kitam forest also has the problem of succession of the natural Sal stands by the Chir Pine Pinus roxburghi which is fire resistant. There was a clear shortage of bird life in the Pine stands as compared to Sal



Important Bird Areas in India - Sikkim



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patches though the exact quantification has not been done. Since this IBA is used more like a thoroughfare even by bird watchers passing through to more popular birding, trekking or tourism destinations in higher altitudes, there is a real lack of ecological information from this zone. Sightings of Kaleej Pheasant very close to human habitation or along the Melli-Jorethang road are no longer common (Ganguli-Lachungpa 1996). Indian Peafowl in Kitam introduced from Punjab over three decades ago by the State Forest Department (S. T. Bhutia pers. comm. 2003) seem to be thriving and villagers sometimes complain of crop depredation. Study is also needed to check for genetic dilution in Red Junglefowl near villages in this IBA.

KEY CONTRIBUTORS

Usha Lachungpa and Sandeep Tambe

KEY REFERENCES

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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).

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