Important Bird Areas in India - Sikkim

SK-02

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DOMBANG VALLEY- LACHUNG- LEMA- TSUNGTHANG



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

:

:

:

IN-SK-02 Si kkim North Si kkim 27° 37' 60'' N, 88° 45' 00'' E Mi xed (Vi II age, Forest, GREF and Army I and) approx 60, 000 ha av. 2, 679 m Not Avai I abl e -10 °C to 25 °C Trans-Hi mal aya Hi II y Evergreen Forest, Montane Broadl eaf Evergreen and Deci duous Forest, Montane Mi xed Broadl eaf-Coni ferous Forest

IBA CRITERIA: A1 (Threatened Species), A2 (Endemic Bird Area 130: Eastern Himal ayas), A3 (Biome-5: Eurasi an High Montane; Biome-7: Sino-Himal ayan Temperate Forest; Biome-8: Sino-Himal ayan Subtropical Forest) PROTECTION STATUS: Not official ly protected

GENERAL DESCRI PTI ON

This is a large IBA on village land, Forest Department land and land under the control of the army and GREF. The total area could be more than 60,000 ha. Starting from the small township of Tsungthang, there are small hamlets at Bop, Maltin, Khedum, Lema, Lachung, Sharchok and Dombang along the Lachung river in North Sikkim. Lachung is the northernmost frontier village in this Valley. Hence, there is heavy army deployment in the area. This IBA is subjected to seasonal grazing by livestock such as highland cows, yak and horses.

From subtropical Tsungthang to temperate Dombang Valley with hamlets and villages along Lachung Chu and forest patches under-planted with Large Cardamom Ammomum subulatum, there are mostly village lands with subsistence cultivation. The Mixed Coniferous Forests of Hemlock, Spruce, Pine, Fir and Junipers with shrubby undergrowth of Rhododendron and Arundinaria at Dombang give way to open Alder Alnus nipalensis towards Tsungthang. The degraded areas are overtaken by the ubiquitous Eupatorium an exotic invasive weed locally called 'Ban-Mara' or 'Forest Killer'.

AVI FAUNA

A full checklist of this site is not available but the bird records maintained by U. Lachungpa (pers. comm. 2002) show that this area could have significant populations of Vulnerable Beautiful Nuthatch Sitta formosa and Wood Snipe Gallinago nemoricola.

The site lies in Eastern Himalayas Endemic Bird Area (EBA 130) where Stattersfield et al. (1998) have identified 21 restricted range species. Only one such species, White-naped Yuhina Yuhina bakeri has been noticed till now (U. Lachungpa pers. comm. 2002), but looking at the extent of pristine habitat still available in this site, more restricted range species are likely to be found here.

This complex, with wide altitudinal variation, basically lies in Biome-7 (Sino-Himalayan Temperate Forest), but avian elements of Biome-5 (Eurasian High Montane - Alpine and Tibetan) and Biome-8 (Sino-Himalayan Subtropical Forest) are also found as these biomes merge with Biome-7, and secondly, many birds show seasonal altitudinal movement. Seventeen out of the 48 species listed in Biome-5 (BirdLife International, undated) are found in this site. Similarly, 47 out of 112 species listed in Biome-7 are found here. As this site also has Montane Mixed Broadleaf-Coniferous Forest, Broadleaf Evergreen Forest and Deciduous Forest, many species of Biome-8 are also found here. Thus, this site perhaps has the most numerous biome restricted species among all the sites of Sikkim.

The important birds of the valley are Himalayan Griffon Gyps himalayensis, Wood Snipe Gallinago nemoricola, Snow Pigeon Columba leuconota, Grandala Grandala coelicolor, Plain Mountain-Finch Leucosticte nemoricola and Hill Partridge Arborophila torqueola. A specimen of Tibetan Horned Owl (Eurasian Eagle-Owl) Bubo bubo from Lema was collected and deposited with BNHS (Ganguli-Lachungpa 2002).

Vul nerabl e				
Wood Snipe	Gallinago nemoricola			
Beautiful Nuthatch	Sitta formosa			
Endemic Bird Area 130:	Eastern Himal ayas			
White-naped Yuhina	Yuhina bakeri			
Biome-5: Eurasian High Monta	ane (Al pi ne and Ti betan)			
Himalayan Griffon	Gyps himalayensis			
Snow Partridge	Lerwa lerwa			
Solitary Snipe	Gallinago solitaria			
Ibisbill	Ibidorhyncha struthersii			
Snow Pigeon	Columba leuconota			
Grey-backed Shrike	Lanius tephronotus			
Alpine Accentor	Prunella collaris			
Altai Accentor	Prunella himalayana			
Plain-backed Thrush	Zoothera mollissima			
Hodgson's Redstart	Phoenicurus hodgsoni			
Guldenstadt's Redstart	Phoenicurus erythrogaster			
Grandala	Grandala coelicolor			
Wallcreeper	Tichodroma muraria			
Hodgson's Mountain-Finch	Leucosticte nemoricola			
Beautiful Rosefinch	Carpodacus pulcherrimus			
Common Great Rosefinch	Carpodacus rubicilla			
Yellow-billed Chough	Pyrrhocorax graculus			

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Bi ome-7:	Si no-Hi ma	l avan Ten	perate 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
Rufous-breasted Accentor	Prunella strophiata
Long-tailed Thrush	Zoothera dixoni
Indian Blue Robin	Luscinia brunnea
White-browed Bush-Robin	Tarsiger indicus
Rufous-breasted Bush-Robin	Tarsiger hyperythrus
White-throated Redstart	Phoenicurus schisticeps
White-throated Laughingthrush	Garrulax albogularis
Striated Laughingthrush	Garrulax striatus
Spotted Laughingthrush	Garrulax ocellatus
Scaly Laughingthrush	Garrulax subunicolor
Black-faced Laughingthrush	Garrulax affinis
Slender-billed Scimitar-Babbler	Xiphirhynchus superciliaris
Greater Scaly-breasted Wren-Babbler	Pnoepyga albiventer
Green Shrike-Babbler	Pteruthius xanthochlorus
Bar-throated Minla	Minla strigula
Red-tailed Minla	Minla ignotincta
Gold-breasted Tit-Babbler	Alcippe chrysotis
White-browed Tit-Babbler	Alcippe vinipectus
Rufous Sibia	Heterophasia capistrata
Stripe-throated Yuhina	Yuhina gularis
Rufous-vented Yuhina	Yuhina occipitalis
Brown Parrotbill	Paradoxornis unicolor
Chestnut-crowned Bush-Warbler	Cettia major
Grey-sided Bush-Warbler	Cettia brunnifrons
Grey-faced Leaf-Warbler	Phylloscopus maculipennis
Rufous-fronted Tit	Aegithalos iouschistos
Rufous-bellied Crested Tit	Parus rubidiventris
Brown Crested Tit	Parus dichrous
Green-backed Tit	Parus monticolus
Yellow-browed Tit	Sylviparus modestus
White-tailed Nuthatch	Sitta himalayensis
Rusty-flanked Tree-Creeper	Certhia nipalensis
Fire-tailed Sunbird	Aethopyga ignicauda
Yellow-breasted Greenfinch	Carduelis spinoides
Dark-rumped Rosefinch	Carpodacus edwardsii
White-browed Rosefinch	Carpodacus thura
Brown Bullfinch	Pyrrhula nipalensis
Red-headed Bullfinch	Pyrrhula erythrocephala
White-winged Grosbeak	Mycerobas carnipes
Yellow-billed Blue Magpie	Urocissa flavirostris

An old unconfirmed record of Oriental Stork Ciconia boyciana from Lachung (U. Lachungpa pers. comm. 2003), winter sightings of male Mallard Anas platyrhynchos at Chuba, Dombang, Common Merganser Mergus merganser at a fish pond near Sharchok, Lachung and Gadwall caught from Lachung a few years ago suggest that the valley could be a regular flyway for migratory waterbirds (U. Lachungpa pers. comm. 2003).

Biome-8: Sino-Himalay	/an Subtropical Forest
Asian Emerald Cuckoo	Chrysococcyx maculates
Golden-throated Barbet	Megalaima franklinii
Blue-throated Barbet	Megalaima asiatica
Bay Woodpecker	Blythipicus pyrrhotis
Striated Bulbul	Pycnonotus striatus
Black Bulbul	Hypsipetes leucocephalus
Grey-winged Blackbird	Turdus boulboul
Purple Cochoa	Cochoa purpurea
Green Cochoa	Cochoa viridis
Rufous-chinned Laughingthrush	Garrulax rufogularis
Grey-sided Laughingthrush	Garrulax caerulatus
Rufous-capped Babbler	Stachyris ruficeps
Red-billed Leiothrix	Leiothrix lutea
Yellow-throated Tit-Babbler	Alcippe cinerea
Grey-headed Flycatcher-Warbler	Seicercus xanthoschistos
Red-headed Tit	Aegithalos concinnus
Black-throated Sunbird	Aethopyga saturata
Streaked Spiderhunter	Arachnothera magna
Maroon Oriole	Oriolus traillii

OTHER KEY FAUNA

Notable mammals are Yellow-throated Marten Martes flavigula, Leopard Cat Prionailurus bengalensis, Spotted Linsang Prionodon pardicolor, Asiatic Black Bear Ursus thibetanus, Goral Nemorhaedus goral, Barking Deer Muntiacus muntjak, Weasels Mustela spp., Orange-bellied Squirrel Dremomys lokriah and Himalayan Palm Civet Paguma larvata. The Himalayan Pit Viper Gloydius himalayanus and other herpetofauna found in this IBA need further study.

LAND USE

- q Agriculture
- q Fisheries and aquaculture
- q Forestry
- q Military
- q Tourism and recreation
- CONSERVATI ON I SSUES
- Landslides and gully formation due to road construction and maintenance activities
- q Poaching of wildlife
- q Stray dogs
- q River pollution
- q Uncontrolled tourism

Subsistence farming of wheat, barley and maize is practised while potato, cabbage and cardamom are grown as cash crops. Some amount of cattle rearing is practiced with stall-fed hybrid milch cows and the rest grazed in forest areas. Farm trials of exotic Lilies, Angora Rabbits and improved livestock breeds are conducted here by the government. Handloom cottage industry for making blankets, rugs and carpets provides alternative employment.

As the area is near the international border with China, there is heavy army deployment. Their role so far has been limited to border security, but now they have to be given a major role in the protection of the area's biodiversity in collaboration with the State Forest Department and local communities. The State Forest Department lacks manpower and infrastructure to patrol these areas. **+**

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Constant heavy traffic on the roads in this IBA and faulty practices of road construction often using dynamite are responsible for many landslips and slides causing much loss of vegetation cover, besides destabilizing the landscape.

Road maintenance workers of the Border Roads Organisation often depend on easily available fuel wood around their shifting camps instead of kerosene that has to be purchased. There are also reports of poaching of wildlife from such areas.

So far there is no efficient system of waste disposal from the cantonments such as Pegong or the villages and townships between Lachung and Tsungthang and garbage is more often disposed off the hillside into the Lachung river. More non-biodegradable waste is noticeable nowadays with increase in tourism pressure and the change from tinned milk products to cartons and tetrapacks.

KEY CONTRI BUTOR

Usha Lachungpa

KEY REFERENCES

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- Ganguli-Lachungpa, U. (2002) Eurasian Eagle-Owl Bubo bubo tibetanus Bianchi at 2100 m in North Sikkim. J. Bombay Nat. Hist. Soc. 99 (2): 305-306.
- Stattersfield, A. J., Crosby, M. J., Long, A. J. and Wege, D. C. (1998) Endemic Bird Areas of the World: Priorities for Biodiversity Conservation. BirdLife Conservation Series No. 7. BirdLife International, Cambridge, U.K.