

# THREATENED BIRD SPECIES OF CKNP THEIR CONSERVATION & MANAGEMENT STRATEGIES

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**For Central Karakorum National Park and Buffer Zone**

# *Background information*

- Pakistan holds 688 species of bird's biodiversity
- 11 restricted range species (RRS) in whole of Himalayas. Out of which 10 RRS species are known from Western Himalayas and from the CKNP region (Bird Life, 2000, 2001)
- These RRS are very sensitive to the exploitation of their habitat
- Inventory and status to mitigate conservation strategies

# *Objectives*

- To collect and document the inventory of all existing bird fauna from the specific CKNP region and to ascertain the threats posed to threatened species in particular and others in general
- To propose a management strategy for sustainable use of linked natural resources with that of conservation of birds by the local people
- To train locals in identification of birds with particular reference to school children and CKNP game watchers and creating awareness among masses for conservation of birds in particular and the biodiversity as a whole

# *Expected outcomes*

- Baseline information will be documented , especially threatened species ,their current situation and future requirements for their long term conservation
- A check list of birds with GIS layer
- Effect of environmental factors will be identified which will help to change the current and future policies
- New species may be recorded because little research has been done in this area which will be a great achievement

- Lectures, slide shows, interviews , training for identification of Birds
- Line transects, call identification techniques, mist-netting and direct visual observations with the help of binoculars, field spotting scopes and audio playbacks (Bibby *et al.*, 1998)

# *Plan of work*

- PI is supervising the overall field project activities, technical inputs and training of the stakeholders, and laboratory experiments where needed
- Co-PI is compiling the technical and financial reports, publications and articles and liaise with community groups, co-supervise students and acting as key trainer
- All the data is co-shared with donors and proper acknowledgements will be sighted in all publications produced under the project

# Activities & Results

- Reconnaissance surveys have been made in potential areas with in CKNP
- 03 areas have been surveyed (Shigar, Fuljo and Fuljo top) and 03 in Minapin
- 57 bird species have been identified and recorded (27 captured and 30 sighted) (Skardu)
- 36 birds have been identified and recorded (13 captured and 23 sighted) (Minapin, Nagar)
- Some feather samples have been procured for future taxonomical and population analyse
- Data has been collected through direct visual observations with the help of binoculars, surveys, mist-netting, field spotting scopes, audio playbacks and Habitat mapping by techniques explained in Bibby *et al.*, 1998 and Mosby 1963

# *Activities & Results*

- A check list of birds has been established along with their current situation which can be used for the conservation of birds in the future and to manage the CKNP regarding threatened birds specifically and other birds in general
- Along with it the effect of environmental factors have been identified that could be used to change the current and future policies in order to protect the birds
- GIS layer with presence of birds will be produced at the end of the project.



# *ACHIEVEMENTS*

# NEW INVENTORY TO BIRD LIST OF PAKISTAN (A NEW SPECIE OF BIRD)

## **Menetries Warbler (*Sylvia mystacea*)** 5-08-2012 (Fuljo Top)

(10292 elevation)

- T=60mm
- W=64mm





# Menetries Warbler

- This bird is for the first time found in Gilgit Baltistan and it is supposed to be only seen in some parts of Balochistan bordering Afghanistan (Roberts (1991) Volume 2, Birds of Pakistan)
- First record for GB.

# FIRST TIME RECORDED FROM GILGIT BALTISTAN

## Pallid Scops Owl (*Otus brucei*)...Fuljo Top (7-08-2012)

ALT: 10292

T=66mm

W=154mm







# RESTRICTED RANGE SPECIE IN MINAPIN

- Eurasian gold finch (*Carduelis carduelis* )
- Hapakunch (9730) and Bongidus
- Wing formula ( $2^{\text{nd}}$  primaries =  $3^{\text{rd}}$  & longest)







S/No	Common Name	Zoological Name	Date	Locality
1	Scaly-bellied Woodpecker	<i>Picus squamatus</i>	2-08-2012	Shigar
2	Long-tailed shrike	<i>Lanius Schach caniceps</i>	2-08-2012	Shigar
3	Long-tailed shrike	<i>Lanius Schach erythronotus</i>	2-08-2012	Shigar
4	Grey-backed Shrike	<i>Lanius tephronotus</i>	2-08-2012	Shigar
5	Rock Bunting	<i>Embrizia cia stracheyi</i>	2-08-2012	Shigar
6	Lesser Kestrel	<i>Falco naumanni</i>	2-08-2012	Shigar
6	Yellow Wagtail	<i>Motacilla flava</i>	2-08-2012	Shigar
7	Eurasian Golden Oriole	<i>Oriolus oriolus</i>	2-08-2012	Shigar
8	Yellow-billed Chough	<i>Pyrrhcorax graculus</i>	2-08-2012	Shigar
9	Common Raven	<i>Corvus corax</i>	2-08-2012	Shigar
10	Black-billed Magpie	<i>Pica pica</i>	2-08-2012	Shigar
11	Blackbird	<i>Turdus merula maximus</i>	3-08-2012	Dassu
12	Blue Wistling Thrush	<i>Myophonus blighi</i>	4-08-2012	Fuljo Top
13	Black Redstart	<i>Phoenicurus ochruros</i>	4-08-2012	Fuljo Top
14	Streaked Laughing Thrush	<i>Garrulax lineatus</i>	4-08-2012	Fuljo Top
15	Plain leaf Warbler	<i>Phylloscopus neglectus</i>	5-08-2012	Fuljo Top
16	Red-fronted Rosefinch	<i>Carpodacus puniceus</i>	5-08-2012	Fuljo Top
17	Pine Bunting	<i>Emberiza leucocephalos</i>	5-08-2012	Fuljo Top
18	Rock Bunting	<i>Emberiza cia</i>	5-08-2012	Fuljo Top
19	White Gorgeted Flycatcher	<i>Ficedula monileger</i>	5-08-2012	Fuljo Top
20	Red billed Chough	<i>Pyrrhcorax pyrrhcorax</i>	5-08-2012	Fuljo Top
21	<b>Menetries's Warbler</b>	<b><i>Sylvia mystacea</i></b>	<b>5-08-2012</b>	<b>Fuljo Top</b>
22	Common Rosefinch	<i>Carpodacus erythrurus</i>	6-08-2012	Fuljo Top
23	Red Crossbill	<i>Loxia curvirostra</i>	6-08-2012	Fuljo Top
24	Rock Bunting	<i>Emberiza cia</i>	6-08-2012	Fuljo Top
25	Great Tit	<i>Parus major</i>	7-08-2012	Fuljo Top
26	<b>Pallied Scops Owl</b>	<b><i>Otus brucei</i></b>	<b>7-08-2012</b>	<b>Fuljo Top</b>
27	Fire- fronted Serin	<i>Serinus pusillus</i>	7-08-2012	Fuljo top

Sighted birds

S/NO	Sample No	Doc Date	Common Name	Scientific Name	Locality	GPS Coordinates
01	1/12	2-8-2012	<b>Scally bellied wood peckar</b>	<i>Picus squamatuslaniu</i>	Shigar	ALT: 9897
02	2/12	2-8-2012	<b>Long tailed strike</b>	<i>Lanius schach carniceps</i>	Shigar	ALT: 9897
03	3/12	2-8-2012	<b>Long tailed strike</b>	<i>Lanius schach</i>  <i>s(Erythronotus)</i>	Shigar	ALT: 9897
04	4/12	2-8-2012	<b>Gray backed strike</b>	<i>Lanius teplnonutus</i>	Shigar	ALT: 9897
05	5/12	2-8-2012	<b>Rock banting</b>	<i>Emberiza cia</i>	Shigar	ALT: 9897
c6	6/12	3-8-2012	<b>Fire fronted serin</b>	<i>Serinus pussillus</i>	Foljo	ALT: 9863
07	7/12	3-8-2012	<b>Yellow wagtail</b>	<i>Motacilia flava</i>	Foljo	ALT: 9863
08	8/12	3-8-2012	<b>Black bird</b>	<i>Pica hudonia</i>	Dassu	ALT: 9863
09	9/12	3-8-2012	<b>Common rose finch</b>	<i>Carpudacus erythrinus</i>	Dassu	ALT: 9863
10	10/12	3-8-2012	<b>Eurasian golden oriole</b>	<i>Oriolus oriolus</i>	Shigar	ALT: 9897
11	11/12	3-8-2012	<b>Yellow billed chaugh</b>	<i>Pyrrhocorax graculus</i>	Shigar	ALT: 9897
12	12/12	3-8-2012	<b>Common raven</b>	<i>Corvus corax</i>	Shigar	ALT: 9897
13	13/12	3-8-2012	<b>Black billed magpie</b>	<i>Pica hudonia</i>	Shigar	ALT: 9897
14	14/12	4-8-2012	<b>Blue whistling thrush</b>	<i>Myophorous blighi</i>	Foljo top	ALT: 10292
15	15/12	4-8-2012	<b>Streaked laughing thrush</b>	<i>Garrulax lineatus</i>	Foljo top	ALT: 10292
16	16/12	4-8-2012	<b>Black red start</b>		Foljo top	ALT: 10292
17	17/12	5-8-2012	<b>Plain leaf warbler</b>	<i>Phylloscopus weglectus</i>	Foljo top	ALT: 10292
18	18/12	5-8-2012	<b>Red cross bill</b>	<i>Luxia curvirostrus</i>	Foljo top	ALT: 10292
19	19/12	5-8-2012	<b>Red billed chough</b>	<i>Phyrrhecorax</i>	Foljo top	ALT: 10292
20	20/12	5-8-2012	<b>Red fronted rose finch</b>	<i>Carpodacus puniceus</i>	Foljo top	ALT: 10292
21	21/12	5-8-2012	<b>Pine bunting</b>	<i>Embriza cia leucocephates</i>	Foljo top	ALT: 10292
22	22/12	7-8-2012	<b>Hoopoes</b>	<i>Upupa epops</i>	Shigar	ALT: 9897
23	23/12	7-8-2012	<b>Eurasian golden oriole</b>	<i>Oriolus oriolus</i>	Shigar	ALT: 9897
24	24/12	7-8-2012	<b>Rock pigeon</b>	<i>Columba luvia</i>	Shigar	ALT: 9897
25	25/12	5-8-2012	<b>Eurasian collard dove</b>	<i>Streptopelia decaocto</i>	Foljo top	ALT: 9897
26	26/12	5-8-2012	<b>chuk</b>	<i>Alectoris chukar</i>	Hyderabad (Braldo)	ALT: 9897
27	27/12	5-8-2012	<b>Black bird</b>	<i>Turdus merula</i>	Shigar	ALT: 9897
28	28/12	5-8-2012	<b>Long billed bush warbler</b>	<i>Bradupterus major</i>	Foljo top	ALT: 10292
29	29/12	8-8-2012	<b>Magpie</b>	<i>Pica pica</i>	Shigar	ALT: 9897
30	29/12	8-8-2012	<b>Great Tit</b>	<i>Parus major</i>	Shigar	ALT:9897

CAPTURED BIRDS DURING SECOND FIELD VISIT TO MINAPIN (CKNP) NAGAR VALLEY

S NO	LOCAL NAME	SCIENTIFIC NAME	LACALITY	ALTITUDE	DATE	Status
1	Rusty tailed flycatcher	<i>Muscipa ruficauda</i>	Bungidas	8410	16-06-2013	Wing formula 2 <sup>nd</sup> primaries =9 <sup>th</sup> and 10 <sup>th</sup>
2	Blue caped redstart(M)	<i>Phoenicurus coeruleocephalus</i>	Bungidas	8410	16-06-2013	Wing formula 2 <sup>nd</sup> primaries =9 <sup>th</sup> and 10 <sup>th</sup>
3	Rusty tailed flycatcher	<i>Muscipa ruficauda</i>	Bungidas	8410	16-06-2013	Wing formula 2 <sup>nd</sup> primaries =9 <sup>th</sup> and 10 <sup>th</sup>
4	Mountain chiff chaff	<i>Phylloscopus sindianus</i>	Bungidas	8410	16-06-2013	Wing formula 2 <sup>nd</sup> primaries =7 <sup>th</sup>
5	Mountain chiff chaff	<i>Phylloscopus sindianus</i>	Bungidas	8410	17-06-2013	Wing formula 2 <sup>nd</sup> primaries =7 <sup>th</sup>
6	Lesser white throat	<i>Silvia curruca</i>	Bungidas	8410	17-06-2013	
7	Lesser white throat	<i>Silvia curruca</i>	Bungidas	8410	17-06-2013	
8	Blue whistling thrush	<i>Myophous caeruleus</i>	Bungidas	8410	17-06-2013	
9	Mountain chiff chaff	<i>Phylloscopus sindianus</i>	Bungidas	8410	17-06-2013	Wing formula 2 <sup>nd</sup> primaries =7 <sup>th</sup>
10	Fire fronted serine	<i>Serinus pusillus</i>	Bungidas	8410	17-06-2013	Wing formula 2 <sup>nd</sup> primaries =3 <sup>rd</sup> & 4 <sup>th</sup> longest
11	Common rose finch (M)	<i>Carpodacus erythrinus</i>	Bungidas	8410	18-06-2013	Wing formula 2 <sup>nd</sup> primaries =3 <sup>rd</sup> & longest
12	Streaked laughing thrush	<i>Garrulax lineatus</i>	Bungidas	8410	18-06-2013	Wing formula 2 <sup>nd</sup> primaries =
13	Bar tailed tree creeper	<i>Certhia himalayana</i>	Hapakun	9730	19-06-2013	Wing formula 2 <sup>nd</sup> primaries =
14	Rufous breasted accentor (M)	<i>Prunella srtophiata</i>	Hapakun	9730	18-06-2013	Wing formula 2 <sup>nd</sup> primaries =7 <sup>th</sup>
15	Himalalayan red fanked bush robin	<i>Tarsigar rufilatus</i>	Hapakun	9730	18-06-2013	Wing formula 2 <sup>nd</sup> primaries =10 <sup>th</sup>
16	Rufous naped tit	<i>Parus rufonuchalis</i>	Hapakun	9730	19-06-2013	Wing formula 2 <sup>nd</sup> primaries =
17	Himalalayan red fanked bush robin	<i>Tarsigar rufilatus</i>	Hapakun	9730	19-06-2013	Wing formula 2 <sup>nd</sup> primaries =10 <sup>th</sup>
18	Fire fronted serine (M)	<i>Serinus pusillus</i>	Hapakun	9730	20-06-2013	Wing formula 2 <sup>nd</sup> primaries =3 <sup>rd</sup> & 4 <sup>th</sup> longest
19	<b>Eurasian gold finch (M)</b>	<b><i>Carduelis carduelis</i></b>	<b>Hapakun</b>	<b>9730</b>	<b>20-06-2013</b>	<b>Wing formula 2<sup>nd</sup> primaries =3<sup>rd</sup> &amp; longest</b>

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### SIGHTED BIRDS DURING SECOND FIELD VISIT TO MINAPIN (CKNP) NAGAR VALLEY

S NO	COMMON NAME	SCIENTIFIC NAME	DATE	Location
1.	Blue caped rock thrush	Monticola cinclorhynchus (F)	16-06-2013	Bungidas
2	Fire fronted serine	Serinus pusillus	16-06-2013	Bungidas
3	Common rose finch (M)	Carpodacus erythrinus	16-06-2013	Bungidas
4	large billed crow	Corvus macrorhynchous	16-06-2013	Bungidas
5	Blaced billed magpie	Pica pica	16-06-2013	Bungidas
6	Rufous tailed shrike	Lanius isabellinus	16-06-2013	Bungidas
7	Great tit	Parus major	16-06-2013	Bungidas
8	Rusty tailed flycatcher	Muscipa ruficauda	16-06-2013	Bungidas
9	Eurasian gold finch (M)	Carduelis carduelis	17-06-2013	Bungidas
10	Himalayan griffon	Gyps himlayenis	17-06-2013	Bungidas
11	Snow pigeon	Columba leuconata	17-06-2013	Bungidas
12	Speckled wood pigeon	Columba hodgsonii	17-06-2013	Bungidas
13	Brown dipper	Cinclus pallasii	17-06-2013	Bungidas
14	Lesser white throat	Silvia curruca	17-06-2013	Bungidas
15	Blue whistling thrush	Myophous caeruleus	18-06-2013	Bungidas
16	Streaked laughing thrush	Garrulax lineatus	18-06-2013	Bungidas
17	Bar tailed tree creeper	Certhia himalayana	18-06-2013	Haakon
18	Rufous breasted accentor	Prunella srtophiata	18-06-2013	Haakon
19	Himalalayan red fanked bush robin	Tarsigar rufilatus	18-06-2013	Hapakun
20	Rufous naped tit	Parus rufonuchalis	19-06-2013	Hapakun
21	White winged red star	Phoenicurus erthrogastar	19-06-2013	Hapakun
22	House sparrow	Passer domesticus	20-06-2013	Minapin
23	Eurasian oriole	Oriolus oriolus	20-06-2013	Minapin



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# Community conflict





# Conflict Resolution



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# *Black red start*





## *Plain leaf warbler*



# *FICEDOLA TOCOLOR*



# STREAKED LAUGHING THRUSH



# *P. NEGLECTUS*





# *Great tit*



















***THANK YOU***