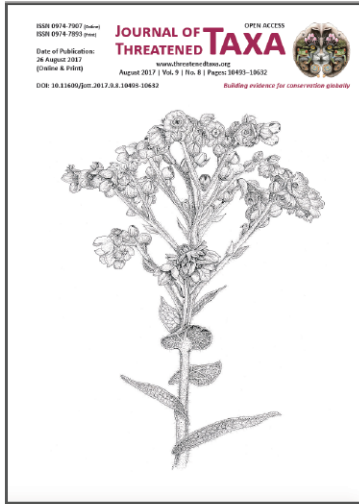


## OPEN ACCESS



The Journal of Threatened Taxa is dedicated to building evidence for conservation globally by publishing peer-reviewed articles online every month at a reasonably rapid rate at [www.threatenedtaxa.org](http://www.threatenedtaxa.org). All articles published in JoTT are registered under [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/) unless otherwise mentioned. JoTT allows unrestricted use of articles in any medium, reproduction, and distribution by providing adequate credit to the authors and the source of publication.



## Journal of Threatened Taxa

Building evidence for conservation globally

[www.threatenedtaxa.org](http://www.threatenedtaxa.org)

ISSN 0974-7907 (Online) | ISSN 0974-7893 (Print)

### SHORT COMMUNICATION

#### BIRDS OF THE KERALA AGRICULTURAL UNIVERSITY CAMPUS, THRISSUR DISTRICT, KERALA, INDIA - AN UPDATE

K. Abha Manohar, Arjun Ramachandran, M.S. Syamili,  
E.R. Sreekumar, Nithin Mohan, J. Anjali, Abinand Reddy &  
P.O. Nameer

26 August 2017 | Vol. 9 | No. 8 | Pp. 10585–10612  
10.11609/jott.2455.9.8.10585–10612



For Focus, Scope, Aims, Policies and Guidelines visit [http://threatenedtaxa.org/About\\_JoTT](http://threatenedtaxa.org/About_JoTT)  
For Article Submission Guidelines visit [http://threatenedtaxa.org/Submission\\_Guidelines](http://threatenedtaxa.org/Submission_Guidelines)  
For Policies against Scientific Misconduct visit [http://threatenedtaxa.org/JoTT\\_Policy\\_against\\_Scientific\\_Misconduct](http://threatenedtaxa.org/JoTT_Policy_against_Scientific_Misconduct)  
For reprints contact <[info@threatenedtaxa.org](mailto:info@threatenedtaxa.org)>

Partner



Publisher/Host







## BIRDS OF THE KERALA AGRICULTURAL UNIVERSITY CAMPUS, THRISSUR DISTRICT, KERALA, INDIA - AN UPDATE

K. Abha Manohar<sup>1</sup>, Arjun Ramachandran<sup>2</sup>, M.S. Syamili<sup>3</sup>, E.R. Sreekumar<sup>4</sup>, Nithin Mohan<sup>5</sup>, J. Anjali<sup>6</sup>, Abinand Reddy<sup>7</sup> & P.O. Nameer<sup>8</sup>

ISSN 0974-7907 (Online)  
ISSN 0974-7893 (Print)

<sup>1,2,3,4,5,6,8</sup> Centre for Wildlife Studies, College of Forestry, Kerala Agricultural University, KAU Main Campus, Thrissur, Kerala 680656, India

<sup>7</sup> Nature Conservation Foundation, #561, Kodigehalli, Bengaluru, Karnataka 560097, India

<sup>1</sup> abhmanohark@gmail.com, <sup>2</sup> arjoram123@gmail.com, <sup>3</sup> syamilimanojcof@gmail.com, <sup>4</sup> sreekumarcof@gmail.com,

<sup>5</sup> nithinmohancof@gmail.com, <sup>6</sup> anjalijpk437@gmail.com, <sup>7</sup> abinandkr@gmail.com, <sup>8</sup> nameer.po@kau.in (corresponding author)

OPEN ACCESS



**Abstract:** An updated checklist of the birds of the Kerala Agricultural University main campus is presented here. The current checklist includes 172 species in 60 families and 17 orders. The campus avifauna includes two Western Ghats endemic species and three globally threatened species. The Kerala Agricultural University main campus also supports 11 species of birds included in Schedule I of the Wildlife (Protection) Act, 1972 and 16 species that are listed in Appendix II of the Convention on International Trade in Endangered Species of Flora and Fauna (CITES). Seasonality chart prepared using eBird is also provided for each of the species.

**Keywords:** BirdLife International, CITES, eBird, endemism, IUCN, Near-Threatened, Red List, Vulnerable, Western Ghats, Wildlife (Protection) Act, 1972.

The Kerala Agricultural University's (KAU) main campus is located at Vellanikkara, Thrissur District, Kerala (Fig. 1). The area lies between 10.53–10.55 N and 76.27–76.28 E and is located near Peechi-Vazhani Wildlife Sanctuary, Western Ghats. The campus has a total area of 391.44ha and the major habitats include garden lands, botanical garden, plantations of rubber, coconut, plantain, cocoa and orchards of mango, jackfruit, sapota, guava, etc. KAU main campus enjoys an equable climate.

The 10-year (2000–2010) mean minimum temperature is 23.3°C and mean maximum temperature is 31.8°C. The area receives both south-west and north-east monsoons, the greater portion of the rainfall, however, is from the south-west monsoon between June and September. The mean annual rainfall is 2,763mm. The mean number of rainy days per year is 110 days (Fig. 2) (KAU Weather Station 2010).

### MATERIALS AND METHODS

The birds of KAU main campus have been documented since 1986. The first published systematic list from KAU main campus reported 135 species of birds (Nameer et al. 2000). Since then, more numbers of species have been added to the campus avifauna and more information available on species and their status. Monthly surveys were carried out in the different habitats of the KAU main campus on a regular basis between 2011 and 2014. During this period two hours each were spent in the morning and afternoon and the bird species and numbers were recorded. In addition to this the opportunistic

DOI: <http://doi.org/10.11609/jott.2455.9.8.10585-10612> | ZooBank: urn:lsid:zoobank.org:pub:D38C13B2-AD2B-4E60-B3A2-518DC8AA350C

Editor: R. Jayapal, Salim Ali Centre for Ornithology and Natural History, Coimbatore, India.

Date of publication: 26 August 2017 (online & print)

Manuscript details: Ms # 2455 | Received 15 July 2016 | Final received 22 March 2017 | Finally accepted 28 July 2017

Citation: Manohar, K.A., A. Ramachandran, M.S. Syamili, E.R. Sreekumar, N. Mohan, J. Anjali, A. Reddy & P.O. Nameer (2017). Birds of the Kerala Agricultural University campus, Thrissur District, Kerala, India - an update. *Journal of Threatened Taxa* 9(8): 10585–10612; <http://doi.org/10.11609/jott.2455.9.8.10585-10612>

Copyright: © Manohar et al. 2017. Creative Commons Attribution 4.0 International License. JoTT allows unrestricted use of this article in any medium, reproduction and distribution by providing adequate credit to the authors and the source of publication.

Funding: Kerala Agricultural University.

Competing interests: The authors declare no competing interests.



eBird  
India



**Acknowledgements:** We thank Abhirami, C., Abhirami, M.J., Adhithyan, N.K., Aneesh, C.R., Anjitha, D., Ashmi, R., Clarena T. Jose., Jismi, M.O., Jyothi, K., Parvathy, V., Sarath, S., Sachin, K., Sreehari, R. and Vinu, J. for the support in the field. We thank Dileep Anthikkad, Jainy Kuriakose and Sandeep Das for providing the photographs of some of the species of birds used here. We are grateful to Praveen, J. and Suhel Quader for helping with the species identification and compiling eBird database. We also express our gratitude to The Dean, College of Forestry, Kerala Agricultural University for encouragement and support. We also thank the anonymous reviewers and the subject editor for their critical comments which greatly improved the manuscript.

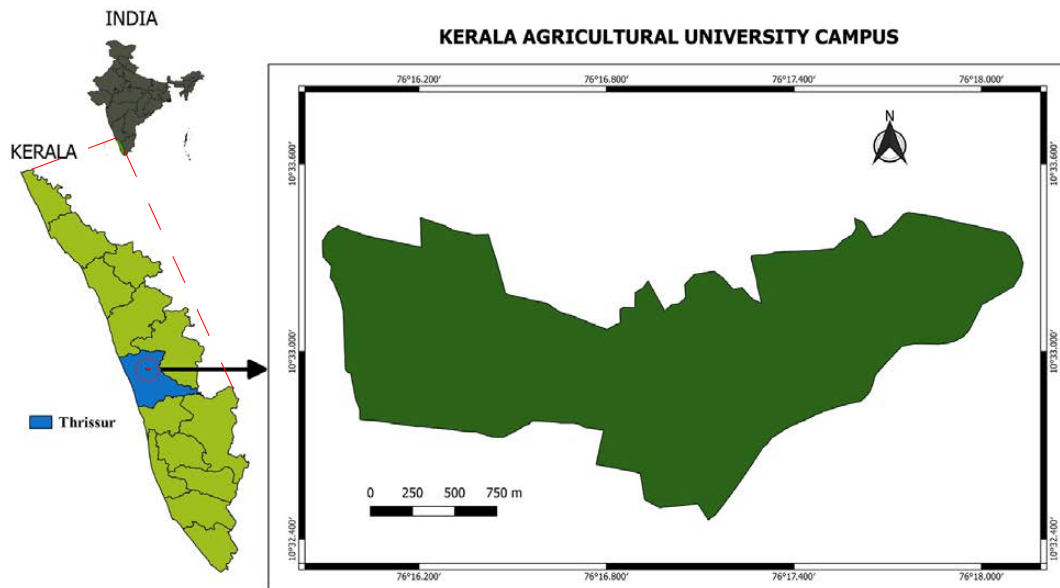


Figure 1. Location map of Kerala Agricultural University main campus, Thrissur, Kerala.

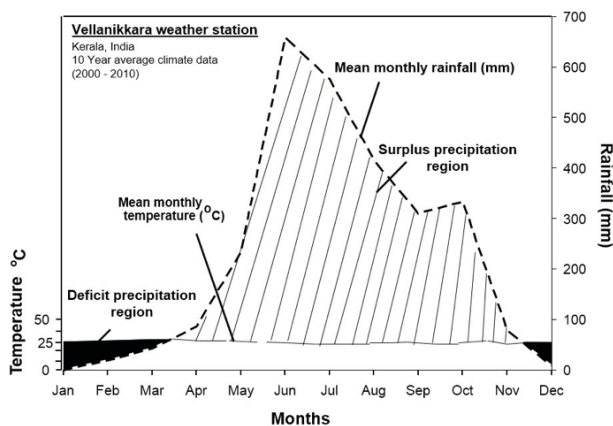


Figure 2. Ombrothermic diagram of KAU main campus

records of the birds were also collected.

We hereby report an updated checklist of the birds of KAU main campus, along with the updated status and breeding information that have been collected since 2000. Most of the data on the birds of the KAU main campus gathered since 1986 has been uploaded into global database - eBird ([www.ebird.org](http://www.ebird.org)), and the data analysis has been primarily done using eBird. All the eBird lists were reviewed by the coordinators and the reviewed eBird lists were downloaded from the eBird portal until June 2016 (Sullivan et al. 2009; eBird 2012; eBird Basic Dataset 2016). The seasonality graphs were also created from the eBird data. The seasonality data was sectored month-wise, which indicate the percentage of lists where a species is present in all eBird complete-lists from the KAU main campus. The taxonomy and the nomenclature

of the birds followed here is based on Praveen (2015).

## RESULTS AND DISCUSSION

Thirty-seven birds have been added to the KAU checklist since Nameer et al. (2000), thus making the total number of birds recorded from KAU main campus to 172 species (Table 1), in 17 orders and 60 families, which accounts for 34.4% of the birds representative of Kerala. Out of the 172 birds of the KAU main campus 63 species have been reported to be positively breeding at the KAU main campus. The complete checklist of the birds of KAU main campus, Thrissur, Kerala including the annotated list on the additional species recorded since Nameer et al. (2000) is presented in this paper.

Two species of birds of KAU main campus, namely, the Malabar Grey Hornbill *Ocyrceros griseus* and Crimson-backed Sunbird *Leptocoma minima*, are endemic to the Western Ghats (Rasmussen & Anderton 2012). The KAU main campus also supports threatened species such as the Vulnerable Woolly-necked Stork *Ciconia episcopus* (BirdLife International 2017), two Near-Threatened species such as Oriental Darter *Anhinga melanogaster* (BirdLife International 2016a) and Black-headed Ibis *Threskiornis melanocephalus* (BirdLife International 2016b). The main campus supports 11 species of birds included in Schedule I of the Wildlife (Protection) Act, 1972, 146 species belonging to Schedule IV, and 16 species that are listed in Appendix II of the Convention on International Trade in Endangered Species of Flora and Fauna (CITES).

The seasonality graph as well as the images for the



majority of the birds are given in Images (Images 1–142).

The annotated account on the details of the 37 species of birds since Nameer et al. (2000) is given below.

1. Yellow-legged Green Pigeon *Treron phoenicopterus*: a pair of Yellow-legged Green Pigeon was observed in March 2013. Subsequently three individuals were photographed in March, 2014 on a *Bombax ceiba* tree.

2. Jerdon's Nightjar *Caprimulgus atripennis*: This species is regularly heard in the campus and is very vocal during the breeding season, from January to April months.

3. Brown-backed Needletail *Hirundapus giganteus*: A single individual was observed on 11 June 2016.

4. Alpine Swift *Tachymarptis melba*: Two individuals of Alpine Swift were observed on 12 June 2016 near Krishi Vigyan Kendra.

5. Drongo Cuckoo *Surniculus lugubris*: A single individual of Drongo Cuckoo was observed on 01 May 2017.

6. Watercock *Gallicrex cinerea*: A solitary Watercock was sighted on 07 April 2014 near the pond in the KAU main campus.

7. Asian Openbill *Anastomus oscitans*: A solitary Asian Openbill was sighted on 05 March 2015 near the pond of the KAU main campus.

8. Woolly-necked Stork *Ciconia episcopus*: There were only two sightings of this species from KAU main campus, this was first sighted in 2006 and later in February, 2015.

9. Purple Heron *Ardea purpurea*: In December 2014, one *Ardea purpurea* was seen beside the pond of KAU main campus.

10. Great Egret *Ardea alba*: Great Egret was first observed on 12 June 2016 near to the pond.

11. Intermediate Egret *Ardea intermedia*: The species was first sighted on 23 March 2014.

12. Black-headed Ibis *Threskiornis melanocephalus*: Two individuals of Black-headed Ibis were sighted on 13 February 2015.

13. Indian Cormorant *Phalacrocorax fuscicollis*: The bird was observed on 02 February 2015 near the pond in the KAU main campus.

14. Oriental Honey Buzzard *Pernis ptilorhynchus*: On 26 November 2013, a male Oriental Honey Buzzard was seen perched on the top of ~20 m tall *Bombax ceiba* tree in the KAU main campus.

15. Malabar Grey Hornbill *Ocyrceros griseus*: This species was first sighted from the KAU main campus in 2011 and there exist some stray reports in subsequent period. However, the photographic evidence of the bird

was secured on 14 November 2015, when a flock of five birds were seen in the KAU mango orchard, where a *Ficus exasperata* tree was in fruit. All the Malabar Grey Hornbill sightings from the campus were between August and December. Though a forest dependent bird, the Malabar Grey Hornbill has been recorded from the large sacred groves of north Kerala, and there were also few stray records from well wooded areas of Kozhikode, Malappuram, Kottayam and Wayanad districts (Sashikumar et al. 2011).

16. Oriental Dwarf Kingfisher *Ceyx erithaca*: This bird was first sighted from KAU main campus in December 2008, and was again sighted on 25 June 2009 at the same place. Both these instances only a single bird was sighted.

17. Common Kestrel *Falco tinnunculus*: The species was sighted on 15 February 2016 in KAU main campus.

18. Black-naped Oriole *Oriolus chinensis*: A solitary Black-naped Oriole was photographed on 05 May 2012, on a *Tectona grandis* tree in the campus.

19. Large Woodshrike *Tephrodornis virgatus*: This was sighted on 10 November 2013 and 15 November 2015.

20. Black-naped Monarch *Hypothymis azurea*: The Black-naped Monarch was observed and photographed from the KAU Botanical Garden in November 2012. Subsequently, a pair was found involved in nest building in August 2014. The male was bringing nest building material, probably mosses. The cup-shaped nest was at a height of about 3m from the ground on a *Ficus exasperata* tree. The normal breeding season of the Black-naped Monarch is from March to June, occasionally extending to August (Sashikumar et al. 2011; Rasmussen and Anderton 2012).

21. Crimson-backed Sunbird *Leptocoma minima*: During the monsoon months few individuals of Crimson-backed Sunbirds have been regularly seen in the KAU main campus. Santharam (1996) has also reported the monsoon movements of the Crimson-backed Sunbird from the Peechi-Vazhani WLS to KAU main campus.

22. Asian Fairy-bluebird *Irena puella*: On 13 December 2014, a pair of Asian Fairy-bluebirds was observed from the KAU main campus. Though regarded as a forest-dependent species, this species was sighted from the sacred groves of northern Kerala, and there was a record of Asian Fairy-Bluebird from the Calicut University campus.

23. Black-headed Munia *Lonchura malacha*: In January 2012, three individuals of Black-headed Munia were sighted from KAU main campus. There were two more additional sightings in February 2015, when a single bird was sighted and March 2015, when four birds were

recorded.

24. Common Rosefinch *Erythrura erythrura*: On 13 December 2014, a flock of one male and six female Common Rosefinch was sighted from the KAU main campus.

25. Cinereous Tit *Parus cinereus*: On 6 May 2013, a flock consisting of six individuals of Cinereous Tit was seen among the foliage of a *Macaranga peltata* tree at the Botanical Garden, KAU main campus. Since then Cinereous Tit has been sighted regularly from the campus.

26. Zitting Cisticola *Cisticola juncidis*: On 29 November 2012, a solitary Zitting Cisticola was observed on an electric line of the KAU main campus. Subsequently the bird was sighted on a few other occasions also.

27. Ashy Prinia *Prinia socialis*: Sighted on 14 February 2015 from near the pond of the KAU main campus

28. Plain Prinia *Prinia inornata*: Sighted on 23 March 2014 from near the pond of the KAU main campus

29. Yellow-browed Bulbul *Acritillas indica*: Sighted solitary Yellow-browed Bulbul on 7 August 2015.

30. Tawny-bellied Babbler *Dumetia hyperythra*: On 18 August 2014, two individuals of Tawny-bellied Babbler from the KAU main campus.

31. Puff-throated Babbler *Pellorneum ruficeps*: A single individual of Puff-throated Babbler was sighted from KAU main campus on 16 November 2015.

32. Velvet-fronted Nuthatch *Sitta frontalis*: On 16 August 2014, four nuthatches were sighted from the rubber plantations of KAU main campus. This species has not been recorded from outside the forest zone (Sashikumar et al. 2011), and thus the sighting is of interest.

33. Hill Myna *Gracula religiosa*: Perhaps the first sighting of the Hill Myna from the KAU main campus was on 11 August 2013, when a flock of eleven individuals of Hill Myna was sighted and photographed on the top canopy of a *Michelia champaka* tree in fruiting. Hill Mynas were since then seen quite regularly from the KAU main campus.

34. Brown-breasted Flycatcher *Muscicapa muttui*: On 10 November 2013, a Brown-breasted Flycatcher was sighted at the Botanical Garden, KAU and later it was photographed on 22 November 2013. The bird has been seen more or less regularly during the winter months (between September to April) since then from the campus.

35. Tickell's Blue Flycatcher *Cyornis tickelliae*: This species was first observed on 19 March 2017.

36. Verditer Flycatcher *Eumyias thalassinus*: A solitary Verditer Flycatcher was sighted on 12 November 2013, and was also photographed from the KAU Botanical

Garden. The bird was seen on a *Polyalthia longifolia* tree.

37. Pied Bushchat *Saxicola caprata*: Pied Bushchat was observed on 10 June 2016.

## CONCLUSION

This once again reiterates the significance of the academic campuses in conserving the biological diversity at a regional level. Earlier studies on the fauna of KAU main campus recorded 139 species of butterflies (Aneesh et al. 2013), 52 species of odonates (Adarsh et al. 2014) and 86 species of spiders (Adarsh & Nameer 2015).

## REFERENCES

- Adarsh, C.K. & P.O. Nameer (2015). Spiders of Kerala Agricultural University campus, Thrissur, Kerala, India. *Journal of Threatened Taxa* 7(15): 8288–8295; <http://doi.org/10.11609/JoTT.2468.7.15.8288-8295>
- Adarsh, C.K., K.S. Aneesh & P.O. Nameer (2014). A preliminary checklist of odonates in Kerala Agricultural University (KAU) campus, Thrissur District, Kerala, southern India. *Journal of Threatened Taxa* 6(8): 6127–6137; <http://doi.org/10.11609/JoTT.o3491.6127-37>
- Aneesh, K.S., C.K. Adarsh & P.O. Nameer (2013). Butterflies of Kerala Agricultural University (KAU) campus, Thrissur, Kerala, India. *Journal of Threatened Taxa* 5(9): 4422–4440; <http://doi.org/10.11609/JoTT.o2870.4422-40>
- BirdLife International (2017). *Ciconia episcopus*. (amended version published in 2016) The IUCN Red List of Threatened Species 2017: e.T22727255A110064997. <http://doi.org/10.2305/IUCN.UK.2017-1.RLTS.T22727255A110064997.en>. Downloaded on 17 August 2017.
- BirdLife International (2016a). *Anhinga melanogaster*. The IUCN Red List of Threatened Species 2016: e.T22696712A93582012. <http://doi.org/10.2305/IUCN.UK.2016-3.RLTS.T22696712A93582012.en>. Downloaded on 17 August 2017.
- BirdLife International (2016b). *Threskiornis melanocephalus*. The IUCN Red List of Threatened Species 2016: e.T22697516A93618317. <http://doi.org/10.2305/IUCN.UK.2016-3.RLTS.T22697516A93618317.en>. Downloaded on 17 August 2017.
- eBird (2012). eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <http://www.ebird.org>. Downloaded on 09 December 2015.
- eBird Basic Dataset. Version: EBD reJune-2016 (2016). Cornell Lab of Ornithology, Ithaca, New York. Downloaded on 15 June 2016.
- Jyothi, K.M. & P.O. Nameer (2015). Birds of sacred groves of northern Kerala, India. *Journal of Threatened Taxa* 7(15): 8226–8236; <http://doi.org/10.11609/jott.2463.7.15.8226-8236>
- Nameer, P.O., R.N. Resmi, K.R. Anoop, G.N. Smitha, R. Lekshmi & P. Radhakrishnan (2000). Birds of Kerala Agricultural University Campus, Thrissur. *Zoo's Print Journal* 15(4): 243–246; <http://doi.org/10.11609/JoTT.ZPJ.15.4.243-6>
- Praveen, J. (2015). A checklist of birds of Kerala, India. *Journal of Threatened Taxa* 7(13): 7983–8009; <http://doi.org/10.11609/jott.2001.7.13.7983-8009>
- Rasmussen, C.P. & J.C. Anderton (2012). *Birds of South Asia: The Ripley Guide. 2nd Edition, Vol. 2*. Ingoprint, Barcelona, Spain, 684pp.
- Santharam, V. (1996). Seasonal movements in Small Sunbird (*Nectarinia minima*) and Emerald Dove (*Chalcophaps indica*). *Journal of the Bombay Natural History Society* 93(2): 296–297.
- Sashikumar, C., J. Praveen, J. Palot & P.O. Nameer (2011). *Birds of Kerala: Status and Distribution*. DC Books, Kottayam, India, 844pp.
- Sullivan, B.L., C.L. Wood, M.J. Iliff, R.E. Bonney, D. Fink & S. Kelling (2009). eBird: a citizen-based bird observation network in the biological sciences. *Biological Conservation* 142: 2282–2292.

Table 1. Updated checklist of birds of KAU main campus, Thrissur, Kerala

Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
	<b>I. Order Anseriformes</b>								
	<b>1. Family Anatidae (ducks, geese, swans)</b>								
1	Lesser Whistling Duck	<i>Dendrocygna javanica</i>	(Horsfield, 1821)		LC	Sch. IV			1
	<b>II. Order Galliformes</b>								
	<b>2. Family Phasianidae (partridges, pheasants, grouse)</b>								
2	Indian Peafowl	<i>Pavo cristatus</i>	Linnaeus, 1758	Br+	LC	Sch. I			2
3	Jungle Bush Quail	<i>Perdica asiatica</i>	(Latham, 1790)	Br+	LC	Sch. IV			3
4	Red Spurfowl	<i>Galloperdix spadicea</i>	(Gmelin, JF, 1789)		LC	Sch. IV			4
	<b>III. Order Phoenicopteriformes</b>								
	<b>3. Family Podicipedidae (grebes)</b>								
5	Little Grebe	<i>Tachybaptus ruficollis</i>	(Pallas, 1764)		LC	Sch. IV			
	<b>IV. Order Columbiformes</b>								
	<b>4. Family Columbidae (pigeons)</b>								
6	Rock Pigeon	<i>Columba livia</i>	Gmelin, JF, 1789	Br+	LC	Sch. IV			5
7	Spotted Dove	<i>Streptopelia chinensis</i>	(Scopoli, 1786)	Br+	LC	Sch. IV			6
8	Pompadour Green Pigeon	<i>Treron pompadora</i>	(Gmelin, 1789)		LC	Sch. IV			7
9	Yellow-legged Green Pigeon	<i>Treron phoenicopterus</i>	(Latham, 1790)		LC	Sch. IV			8
10	Emerald Dove	<i>Chalcophaps indica</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			9
	<b>V. Order Caprimulgiformes</b>								
	<b>5. Family Caprimulgidae (nightjars)</b>								
11	Grey Nightjar	<i>Caprimulgus indicus</i>			LC	Sch. IV			
12	Jerdon's Nightjar	<i>Caprimulgus atripennis</i>	Jerdon, 1845		LC	Sch. IV			10
13	Indian Nightjar	<i>Caprimulgus asiaticus</i>	Latham, 1790		LC	Sch. IV			
14	Savanna Nightjar	<i>Caprimulgus affinis</i>	Horsfield, 1821		LC	Sch. IV			11
	<b>6. Family Apodidae (swifts)</b>								
15	Crested Treeswift	<i>Hemiprocne coronata</i>	(Tickell, 1833)		LC				12
16	Brown-backed Needletail	<i>Hirundapus giganteus</i>	(Temminck, 1825)		LC				
17	Asian Palm Swift	<i>Cypsiurus balasiensis</i>	(Gray, JE, 1829)		LC				
18	Alpine Swift	<i>Tachymarptis melba</i>	(Linnaeus, 1758)		LC				
19	Indian House Swift	<i>Apus affinis</i>	(Gray, JE, 1830)	Br+	LC				
	<b>VI. Order Cuculiformes</b>								
	<b>7. Family Cuculidae (cuckoos)</b>								
20	Greater Coucal	<i>Centropus sinensis</i>	(Stephens, 1815)	Br+	LC	Sch. IV			13
21	Lesser Coucal	<i>Centropus bengalensis</i>	(Gmelin, JF, 1788)	Br+	LC	Sch. IV			14
22	Blue-faced Malkoha	<i>Phaenicophaeus viridirostris</i>	(Jerdon, 1840)		LC	Sch. IV			15
23	Pied Cuckoo	<i>Clamator jacobinus</i>	(Boddaert, 1783)		LC	Sch. IV			16
24	Asian Koel	<i>Eudynamis scolopaceus</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			17
25	Banded Bay Cuckoo	<i>Cacomantis sonneratii</i>	(Latham, 1790)	Br+	LC	Sch. IV			18
26	Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	(Vahl, 1797)	Br+	LC	Sch. IV			19
27	Drongo Cuckoo	<i>Surniculus lugubris</i>	(Horsfield, 1821)		LC	Sch. IV			
28	Common Hawk Cuckoo	<i>Hierococcyx varius</i>	(Vahl, 1797)	Br+	LC	Sch. IV			20
29	Indian Cuckoo	<i>Cuculus micropterus</i>	Gould, 1838	Br+	LC	Sch. IV			21
	<b>VII. Order Gruiformes</b>								
	<b>8. Family Rallidae (rails and coots)</b>								
30	Ruddy-breasted Crane	<i>Zapornia fusca</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			

Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
31	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	(Pennant, 1769)	Br+	LC	Sch. IV			22
32	Watercock	<i>Gallicrex cinerea</i>	(Gmelin, JF, 1789)		LC	Sch. IV			23
	<b>VIII. Order Pelecaniformes</b>								
	<b>9. Family Ciconiidae (storks)</b>								
33	Asian Openbill	<i>Anastomus oscitans</i>	(Boddaert, 1783)		LC	Sch. IV			24
34	Woolly-necked Stork	<i>Ciconia episcopus</i>	(Boddaert, 1783)		VU	Sch. IV			25
	<b>10. Family Ardeidae (herons)</b>								
35	Cinnamon Bittern	<i>Ixobrychus chinnameus</i>	(Gmelin, JF, 1789)		LC	Sch. IV			
36	Black Bittern	<i>Ixobrychus flavicollis</i>	(Latham, 1790)		LC	Sch. IV			
37	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			26
38	Striated Heron	<i>Butorides striata</i>	(Linnaeus, 1758)		LC	Sch. IV			
39	Indian Pond Heron	<i>Ardeola grayii</i>	(Sykes, 1832)		LC	Sch. IV			27
40	Cattle Egret	<i>Bubulcus ibis</i>	(Boddaert, 1783)		LC	Sch. IV			28
41	Purple Heron	<i>Ardea purpurea</i>	Linnaeus, 1766		LC	Sch. IV			29
42	Great Egret	<i>Ardea alba</i>	Linnaeus, 1758		LC	Sch. IV			30
43	Intermediate Egret	<i>Ardea intermedia</i>	(Wagler, 1829)		LC	Sch. IV			
44	Little Egret	<i>Egretta garzetta</i>	(Linnaeus, 1766)		LC	Sch. IV			31
	<b>11. Family Threskiornithidae (ibises)</b>								
45	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	(Latham, 1790)		NT	Sch. IV			32
	<b>12. Family Phalacrocoracidae (cormorants)</b>								
46	Little Cormorant	<i>Microcarbo niger</i>	(Vieillot, 1817)		LC	Sch. IV			33
47	Indian Cormorant	<i>Phalacrocorax fuscicollis</i>	Stephens, 1826		LC	Sch. IV			34
	<b>13. Family Anhingidae (darters)</b>								
48	Oriental Darter	<i>Anhinga melanogaster</i>	Pennant, 1769		NT	Sch. IV			35
	<b>IX. Order Charadriiformes</b>								
	<b>14. Family Burhinidae (thick-knees)</b>								
49	Eurasian Thick-knee	<i>Burhinus oedicnemus</i>	(Salvadori, 1865)		LC	Sch. IV			
	<b>15. Family Charadriidae (plovers &amp; lapwings)</b>								
50	Yellow-wattled Lapwing	<i>Vanellus malabaricus</i>	(Boddaert, 1783)	Br+	LC	Sch. IV			36
51	Red-wattled Lapwing	<i>Vanellus indicus</i>	(Boddaert, 1783)	Br+	LC	Sch. IV			37
	<b>16. Family Scolopacidae (sandpipers)</b>								
52	Common Sandpiper	<i>Actitis hypoleucos</i>	(Linnaeus, 1758)		LC	Sch. IV			38
53	Wood Sandpiper	<i>Tringa glareola</i>	Linnaeus, 1758		LC	Sch. IV			
	<b>17. Family Laridae (gulls and terns)</b>								
54	Whiskered Tern	<i>Chlidonias hybrida</i>	(Pallas, 1811)		LC	Sch. IV			
	<b>X. Order Accipitriformes</b>								
	<b>18. Family Accipitridae (kites, hawks and eagles)</b>								
55	Black-winged Kite	<i>Elanus caeruleus</i>	(Desfontaines, 1789)		LC	Sch. I	App. II		39
56	Oriental Honey Buzzard	<i>Pernis ptilorhynchus</i>	(Temminck, 1821)		LC	Sch. I	App. II		40
57	Crested Serpent Eagle	<i>Spilornis cheela</i>	(Latham, 1790)	Br+	LC	Sch. I	App. II		41
58	Changeable Hawk Eagle	<i>Nisaetus cirratus</i>	(Gmelin, JF, 1788)	Br+	LC	Sch. I	App. II		42
59	Shikra	<i>Accipiter badius</i>	(Gmelin, JF, 1788)	Br+	LC	Sch. I	App. II		43
60	Brahminy Kite	<i>Haliastur indus</i>	(Boddaert, 1783)		LC	Sch. I	App. II		44
61	Black Kite	<i>Milvus migrans</i>	(Boddaert, 1783)		LC	Sch. I	App. II		45

Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
	<b>XI. Order Strigiformes</b>								
	<b>19. Family Tytonidae (barn owls)</b>								
62	Common Barn Owl	<i>Tyto alba</i>	(Scopoli, 1769)	Br+	LC	Sch. IV	App. II		
	<b>20. Family Strigidae (owls)</b>								
63	Brown Hawk Owl	<i>Ninox scutulata</i>	(Raffles, 1822)		LC	Sch. IV	App. II		
64	Jungle Owlet	<i>Glaucidium radiatum</i>	(Tickell, 1833)		LC	Sch. IV	App. II		46
65	Collared Scops Owl	<i>Otus bakkamoena</i>	Pennant, 1769		LC	Sch. IV	App. II		47
66	Mottled Wood Owl	<i>Strix ocellata</i>	(Lesson, 1839)	Br+	LC	Sch. IV	App. II		
67	Spotted Owlet	<i>Athene brama</i>	(Temminck, 1821)		LC	Sch. IV	App. II		48
68	Brown Fish Owl	<i>Ketupa zeylonensis</i>	(Gmelin, JF, 1788)		LC	Sch. IV	App. II		
	<b>XII. Order Bucerotiformes</b>								
	<b>21. Family Bucerotidae (hornbills)</b>								
69	Malabar Grey Hornbill	<i>Ocyrceros griseus</i>	(Latham, 1790)		LC	Sch. I		WG	49
70	Indian Grey Hornbill	<i>Ocyrceros birostris</i>	(Scopoli, 1786)		LC	Sch. I			50
	<b>22. Family Upupidae (hoopoes)</b>								
71	Common Hoopoe	<i>Upupa epops</i>	Linnaeus, 1758		LC				
	<b>XIII. Order Piciformes</b>								
	<b>23. Family Picidae (woodpeckers)</b>								
72	Lesser Golden-backed Woodpecker	<i>Dinopium benghalense</i>	(Linnaeus, 1758)		LC	Sch. IV			51
73	Rufous Woodpecker	<i>Micropternus brachyurus</i>	(Vieillot, 1818)		LC	Sch. IV			52
74	Lesser Yellow-naped Woodpecker	<i>Picus chlorolophus</i>	Vieillot, 1818	Br+	LC	Sch. IV			53
75	Streak-throated Woodpecker	<i>Picus xanthopygaeus</i>	(Gray, JE & Gray, GR, 1847)		LC	Sch. IV			54
76	Greater Golden-backed Woodpecker	<i>Chrysocolaptes lucidus</i>	(Tickell, 1833)	Br+	LC	Sch. IV			55
77	Brown-capped Pygmy Woodpecker	<i>Dendrocopos moluccensis</i>	(Vigors, 1832)	Br+	LC	Sch. IV			56
78	Yellow-crowned Woodpecker	<i>Dendrocopos maharattensis</i>	(Latham, 1801)	Br+	LC	Sch. IV			57
	<b>24. Family Ramphastidae (toucans and barbets)</b>								
79	White-cheeked Barbet	<i>Psilopogon viridis</i>	(Boddaert, 1783)	Br+	LC	Sch. IV			58
80	Coppersmith Barbet	<i>Psilopogon haemacephalus</i>	(Statius Müller, 1776)	Br+	LC	Sch. IV			59
	<b>XIV. Order Coraciiformes</b>								
	<b>25. Family Meropidae (bee-eaters)</b>								
81	Blue-bearded Bee-eater	<i>Nyctornis athertoni</i>	(Jardine & Selby, 1828)		LC				60
82	Green Bee-eater	<i>Merops orientalis</i>	Latham, 1801	Br+	LC				61
83	Chestnut-headed Bee-eater	<i>Merops leschenaulti</i>	Vieillot, 1817		LC				62
84	Blue-tailed Bee-eater	<i>Merops philippinus</i>	Linnaeus, 1767		LC				63
	<b>26. Family Coraciidae (rollers)</b>								
85	Indian Roller	<i>Coracias benghalensis</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			64
	<b>27. Family Alcedinidae (kingfishers)</b>								
86	Oriental Dwarf Kingfisher	<i>Ceyx erithaca</i>	(Linnaeus, 1758)		LC	Sch. IV			
87	Common Kingfisher	<i>Alcedo atthis</i>	(Linnaeus, 1758)		LC	Sch. IV			65
88	Pied Kingfisher	<i>Ceryle rudis</i>	(Linnaeus, 1758)		LC	Sch. IV			66
89	Stork-billed Kingfisher	<i>Pelargopsis capensis</i>	(Linnaeus, 1766)		LC	Sch. IV			67
90	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			68



Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
	<b>XV Order Falconiformes</b>								
	<b>28. Family Falconidae (falcons and caracaras)</b>								
91	Common Kestrel	<i>Falco tinnunculus</i>	Linnaeus, 1758		LC	Sch. IV	App. II		
	<b>XVI. Order Psittaciformes</b>								
	<b>28. Family Psittaculidae (old world parrots)</b>								
92	Plum-headed Parakeet	<i>Psittacula cyanocephala</i>	(Linnaeus, 1766)		LC	Sch. IV			69
93	Rose-ringed Parakeet	<i>Psittacula krameri</i>	(Scopoli, 1769)	Br+	LC	Sch. IV			70
94	Vernal Hanging Parrot	<i>Loriculus vernalis</i>	(Sparrman, 1787)		LC	Sch. IV			71
	<b>XVII. Order Passeriformes</b>								
	<b>29. Family Pittidae (pittas)</b>								
95	Indian Pitta	<i>Pitta brachyura</i>	(Linnaeus, 1766)		LC	Sch. IV			72
	<b>30. Family Campephagidae (minivets and cuckooshrikes)</b>								
96	Small Minivet	<i>Pericrocotus cinnamomeus</i>	(Linnaeus, 1766)		LC	Sch. IV			73
97	Scarlet Minivet	<i>Pericrocotus flammeus</i>	(Forster, JR, 1781)		LC	Sch. IV			74
98	Large Cuckooshrike	<i>Coracina javensis</i>	(Lesson, 1831)		LC	Sch. IV			75
99	Black-headed Cuckooshrike	<i>Lalage melanoptera</i>	(Rüppell, 1839)		LC	Sch. IV			76
	<b>30. Family Oriolidae (orioles, figbirds and allies)</b>								
100	Black-hooded Oriole	<i>Oriolus xanthornus</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			77
101	Indian Golden Oriole	<i>Oriolus kundoo</i>	Sykes, 1832		LC	Sch. IV			78
102	Black-naped Oriole	<i>Oriolus chinensis</i>	Linnaeus, 1766		LC	Sch. IV			79
	<b>31. Family Artamidae (woodswallows, australian magpies and allies)</b>								
103	Ashy Woodswallow	<i>Artamus fuscus</i>	Vieillot, 1817		LC				80
	<b>32. Family Vangidae (vangas and helmet-shrikes)</b>								
104	Common Woodshrike	<i>Tephrodornis pondicerianus</i>	(Gmelin, JF, 1789)	Br+	LC	Sch. IV			81
105	Large Woodshrike	<i>Tephrodornis virgatus</i>	(Raffles, 1822)		LC	Sch. IV			82
	<b>33. Family Aegithinidae (ioras)</b>								
106	Common Iora	<i>Aegithina tiphia</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			83
	<b>34. Family Dicruridae (drongos)</b>								
107	Black Drongo	<i>Dicrurus macrocercus</i>	Vieillot, 1817	Br+	LC	Sch. IV			84
108	Ashy Drongo	<i>Dicrurus leucophaeus</i>	Vieillot, 1817		LC	Sch. IV			85
109	White-bellied Drongo	<i>Dicrurus caerulescens</i>	(Linnaeus, 1758)		LC	Sch. IV			86
110	Bronzed Drongo	<i>Dicrurus aeneus</i>	Vieillot, 1817		LC	Sch. IV			87
111	Greater Racket-tailed Drongo	<i>Dicrurus paradiseus</i>	(Linnaeus, 1766)		LC	Sch. IV			88
	<b>35. Family Rhipiduridae (fantails)</b>								
112	White-browed Fantail	<i>Rhipidura aureola</i>	Lesson, 1831	Br+	LC	Sch. IV			89
	<b>36. Family Laniidae (shrikes)</b>								
113	Brown Shrike	<i>Lanius cristatus</i>	Linnaeus, 1758		LC				90
	<b>37. Family Corvidae (crows and jays)</b>								
114	Rufous Treepie	<i>Dendrocitta vagabunda</i>	(Latham, 1790)	Br+	LC	Sch. IV			91
115	House Crow	<i>Corvus splendens</i>	Vieillot, 1817	Br+	LC	Sch. V			92
116	Large-billed Crow	<i>Corvus macrorhynchos</i>	Wagler, 1827	Br+	LC	Sch. IV			93
	<b>38. Family Monarchidae (monarchs)</b>								
117	Black-naped Monarch	<i>Hypothymis azurea</i>	(Boddaert, 1783)	Br+	LC	Sch. IV			94

Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
118	Indian Paradise-flycatcher	<i>Terpsiphone paradisi</i>	(Linnaeus, 1758)		LC	Sch. IV			95
	<b>39. Family Dicaeidae (flowerpeckers)</b>								
119	Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>	(Latham, 1790)		LC	Sch. IV			96
120	Plain Flowerpecker	<i>Dicaeum concolor</i>	Jerdon, 1840		LC	Sch. IV			97
	<b>40. Family Nectariniidae (sunbirds)</b>								
121	Purple-rumped Sunbird	<i>Leptocoma zeylonica</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			98
122	Crimson-backed Sunbird	<i>Leptocoma minima</i>	(Sykes, 1832)		LC	Sch. IV		WG	99
123	Purple Sunbird	<i>Cinnyris asiaticus</i>	(Latham, 1790)		LC	Sch. IV			100
124	Loten's Sunbird	<i>Cinnyris lotenius</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			101
	<b>41. Family Irenidae (fairy bluebirds and leafbirds)</b>								
125	Asian Fairy-bluebird	<i>Irena puella</i>	(Latham, 1790)		LC	Sch. IV			102
126	Golden-fronted Leafbird	<i>Chloropsis aurifrons</i>	(Temminck, 1829)		LC	Sch. IV			103
127	Jerdon's Leafbird	<i>Chloropsis jerdoni</i>	(Blyth, 1844)		LC	Sch. IV			104
	<b>42. Family Ploceidae (weavers)</b>								
128	Baya Weaver	<i>Ploceus philippinus</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			
	<b>43. Family Estrildidae (waxbills)</b>								
129	White-rumped Munia	<i>Lonchura striata</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			105
130	Scaly-breasted Munia	<i>Lonchura punctulata</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			106
131	Black-headed Munia	<i>Lonchura malacca</i>	(Linnaeus, 1766)		LC	Sch. IV			107
	<b>44. Family Passeridae (sparrows, snowfinches and allies)</b>								
132	Yellow-throated Sparrow	<i>Gymnoris xanthocollis</i>	(Burton, 1838)	Br+	LC	Sch. IV			108
	<b>45. Family Motacillidae (wagtails and pipits)</b>								
133	Paddyfield Pipit	<i>Anthus rufulus</i>	Vieillot, 1818		LC	Sch. IV			109
134	Grey Wagtail	<i>Motacilla cinerea</i>	Tunstall, 1771		LC	Sch. IV			110
135	White-browed Wagtail	<i>Motacilla maderaspatensis</i>	Gmelin, JF, 1789	Br+	LC	Sch. IV			111
136	Forest Wagtail	<i>Dendronanthus indicus</i>	(Gmelin, JF, 1789)		LC	Sch. IV			
	<b>46. Family Fringillidae (finches, euphonias and hawaiian honeycreepers)</b>								
137	Common Rosefinch	<i>Erythrura erythrina</i>	(Pallas, 1770)		LC	Sch. IV			112
	<b>47. Family Paridae (tits, chickadees)</b>								
138	Cinereous Tit	<i>Parus cinereus</i>	Vieillot, 1818		LC	Sch. IV			113
	<b>48. Family Alaudidae (larks)</b>								
139	Ashy-crowned Sparrow Lark	<i>Eremopterix griseus</i>	(Scopoli, 1786)		LC	Sch. IV			
140	Jerdon's Bushlark	<i>Mirafraga affinis</i>	Blyth, 1845		LC	Sch. IV			114
	<b>49. Family Cisticolidae (cisticolas)</b>								
141	Zitting Cisticola	<i>Cisticola juncidis</i>	(Rafinesque, 1810)		LC	Sch. IV			115
142	Grey-breasted Prinia	<i>Prinia hodgsonii</i>	Blyth, 1844	Br+	LC	Sch. IV			116
143	Ashy Prinia	<i>Prinia socialis</i>	Sykes, 1832		LC	Sch. IV			117
144	Plain Prinia	<i>Prinia inornata</i>	Sykes, 1832		LC	Sch. IV			118
145	Common Tailorbird	<i>Orthotomus sutorius</i>	(Pennant, 1769)	Br+	LC	Sch. IV			119
	<b>50. Family Acrocephalidae (brush, reed and swamp warblers)</b>								
146	Blyth's Reed Warbler	<i>Acrocephalus dumetorum</i>	Blyth, 1849		LC	Sch. IV			

Sno	Common English name	Species	Authority (Species)	Breeding recorded in KAU main campus	IUCN Status	WPA	CITES	Endemism	Image Number
	<b>51. Family Hirundinidae (swallows)</b>								
147	Red-rumped Swallow	<i>Cecropis daurica</i>	(Laxmann, 1769)	Br+	LC				120
	<b>52. Family Pycnonotidae (bulbuls)</b>								
148	Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			121
149	Red-vented Bulbul	<i>Pycnonotus cafer</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			122
150	White-browed Bulbul	<i>Pycnonotus luteolus</i>	(Lesson, 1841)	Br+	LC	Sch. IV			123
151	Yellow-browed Bulbul	<i>Acritillas indica</i>	(Jerdon, 1839)		LC	Sch. IV			124
	<b>53. Family Phylloscopidae (old world leaf warblers)</b>								
152	Greenish Leaf Warbler	<i>Seicercus trochiloides</i>	(Sundevall, 1837)		LC	Sch. IV			
	<b>54. Family Timaliidae (scimitar babblers and allies)</b>								
153	Tawny-bellied Babbler	<i>Dumetia hyperythra</i>	(Franklin, 1831)		LC	Sch. IV			125
	<b>55. Family Pellorneidae (smaller babblers)</b>								
154	Puff-throated Babbler	<i>Pellorneum ruficeps</i>	Swainson, 1832		LC	Sch. IV			126
	<b>56. Family Leiothrichidae (babblers, laughing-thrushes and allies)</b>								
155	Jungle Babbler	<i>Turdoides striata</i>	(Dumont, 1823)	Br+	LC	Sch. IV			127
156	Yellow-billed Babbler	<i>Turdoides affinis</i>	(Jerdon, 1845)	Br+	LC	Sch. IV			128
	<b>57. Family Sittidae (nuthatches, spotted creepers and wallcreeper)</b>								
157	Velvet-fronted Nuthatch	<i>Sitta frontalis</i>	Swainson, 1820		LC				129
	<b>58. Family Sturnidae (starlings)</b>								
158	Rosy Starling	<i>Pastor roseus</i>	(Linnaeus, 1758)		LC	Sch. IV			130
159	Brahminy Starling	<i>Sturnia pagodarum</i>	(Gmelin, JF, 1789)		LC	Sch. IV			131
160	Chestnut-tailed Starling	<i>Sturnia malabarica malabarica</i>	(Gmelin, JF, 1789)		LC	Sch. IV			132
	Blyth's Starling	<i>Sturnia malabarica blythi</i>							
161	Common Myna	<i>Acridotheres tristis</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			133
162	Jungle Myna	<i>Acridotheres fuscus</i>	(Wagler, 1827)	Br+	LC	Sch. IV			134
163	Hill Myna	<i>Gracula religiosa</i>	Linnaeus, 1758	Br+	LC	Sch. I	App. II		135
	<b>59. Family Muscipidae (chats and flycatchers)</b>								
164	Indian Robin	<i>Saxicoloides fulicatus</i>	(Linnaeus, 1766)	Br+	LC	Sch. IV			136
165	Oriental Magpie Robin	<i>Copsychus saularis</i>	(Linnaeus, 1758)	Br+	LC	Sch. IV			137
166	Asian Brown Flycatcher	<i>Muscicapa dauurica</i>	Raffles, 1822		LC	Sch. IV			138
167	Brown-breasted Flycatcher	<i>Muscicapa muttui</i>	(Layard, EL, 1854)		LC	Sch. IV			139
168	Tickell's Blue Flycatcher	<i>Cyornis tickelliae</i>	Blyth, 1843		LC	Sch. IV			
169	Verditer Flycatcher	<i>Eumyias thalassinus</i>	(Swainson, 1838)		LC	Sch. IV			140
170	Pied Bushchat	<i>Saxicola caprata</i>	(Linnaeus, 1766)		LC	Sch. IV			
	<b>60. Family Turdidae (thrushes)</b>								
171	Orange-headed Thrush	<i>Geokichla citrina cyanota</i>	(Latham, 1790)	Br+	LC	Sch. IV			141
172	Indian Blackbird	<i>Turdus simillimus nigropileus</i>	Jerdon, 1839		NE	Sch. IV			142

NE - Not Evaluated; LC - Least Concern; NT - Near Threatened; VU - Vulnerable



Image 1. Lesser Whistling Duck



Image 2. Indian Peafowl

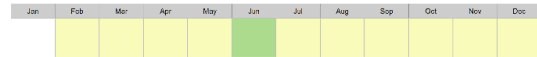


Image 3. Jungle Bush Quail

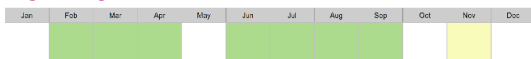


Image 4. Red Spurfowl

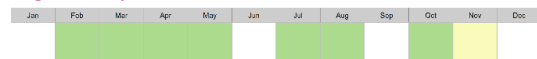


Image 5. Rock Pigeon

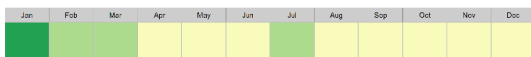


Image 6. Spotted Dove

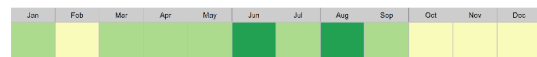


Image 7. Pompadour Green Pigeon

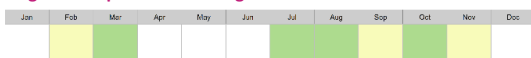


Image 8. Yellow-legged Green Pigeon

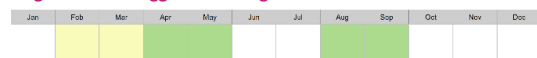






Image 9. Emerald Dove



Image 10. Jerdon's Nightjar



Image 11. Savanna Nightjar



Image 12. Crested Treeswift

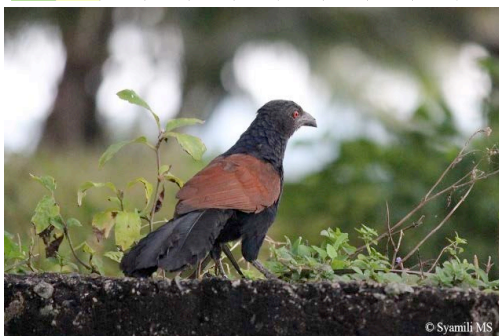


Image 13. Greater Coucal

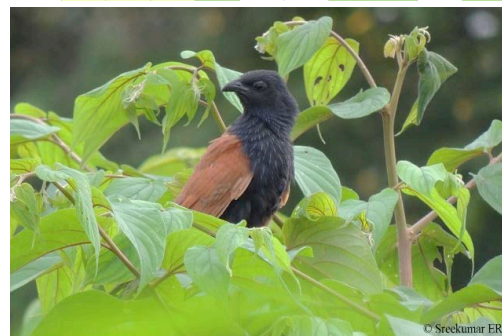


Image 14. Lesser Coucal

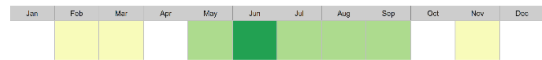


Image 15. Blue-faced Malkoha

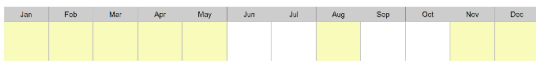


Image 16. Pied Cuckoo







Image 17. Asian Koel



Image 18. Banded Bay Cuckoo



Image 19. Grey-bellied Cuckoo



Image 20. Common Hawk Cuckoo

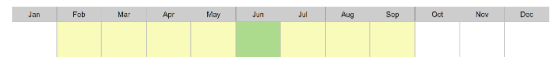


Image 21. Indian Cuckoo

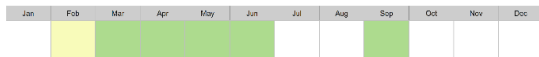


Image 22. White-breasted Waterhen



Image 23. Watercock



Image 24. Asian Openbill







Image 25. Woolly-necked Stork



Image 26. Black-crowned Night Heron



Image 27. Indian Pond Heron

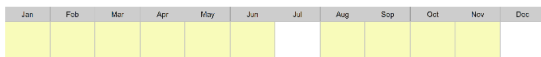


Image 28. Cattle Egret

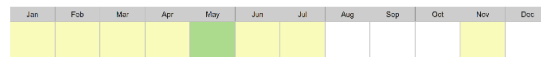


Image 29. Purple Heron

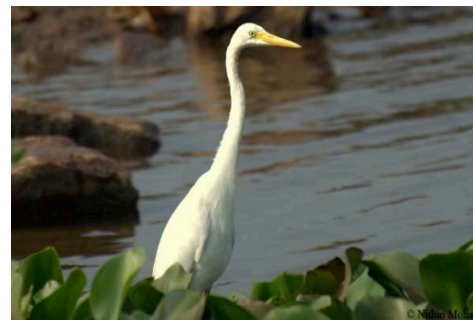


Image 30. Great Egret



Image 31. Little Egret

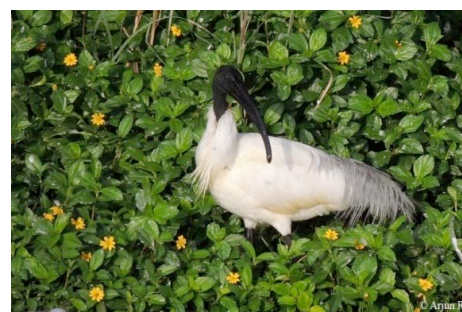
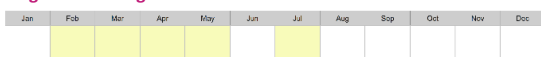


Image 32. Black-headed Ibis







Image 33. Little Cormorant © Sreekkumar ER

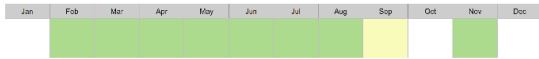


Image 34. Indian Cormorant © Syamili MS

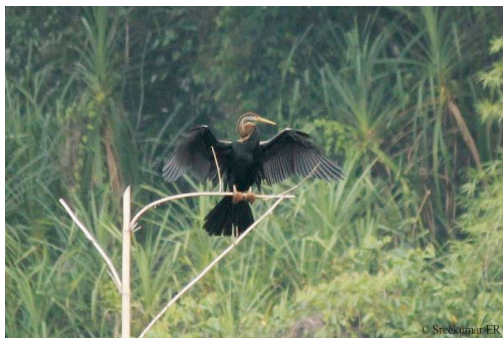
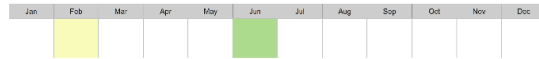


Image 35. Oriental Darter © Sreekkumar ER



Image 36. Yellow-wattled Lapwing © Arjun R

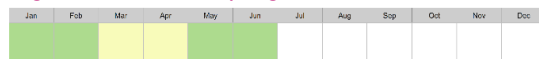


Image 37. Red-wattled Lapwing © Arjun R

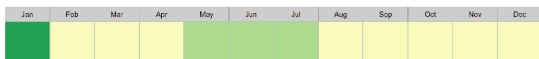


Image 38. Common Sandpiper © Sreekkumar ER



Image 39. Black-winged Kite © Arjun R



Image 40. Oriental Honey Buzzard © Arjun R







Image 41. Crested Serpent Eagle

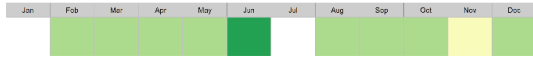


Image 42. Changeable Hawk Eagle

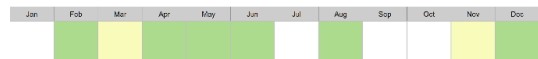


Image 43. Shikra

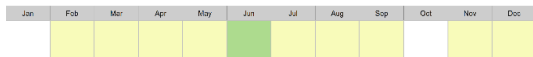


Image 44. Brahminy Kite



Image 45. Black Kite



Image 46. Jungle Owlet

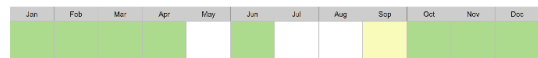


Image 47. Collared Scops Owl



Image 48. Spotted Owlet

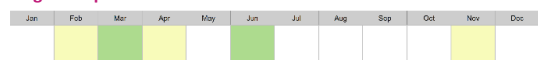




Image 49. Malabar Grey Hornbill



Image 50. Indian Grey Hornbill

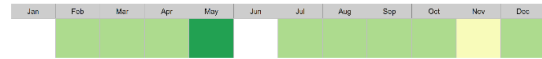


Image 51. Lesser Golden-backed Woodpecker

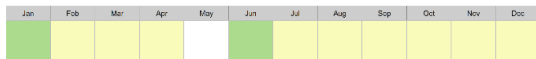


Image 52. Rufous Woodpecker

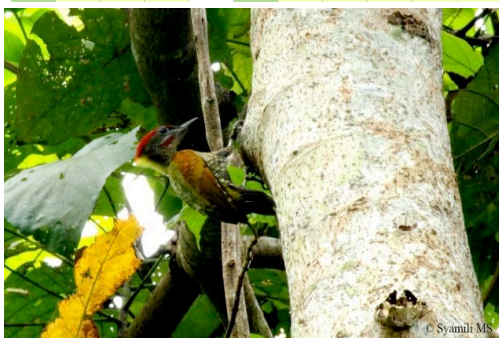


Image 53. Lesser Yellow-naped Woodpecker

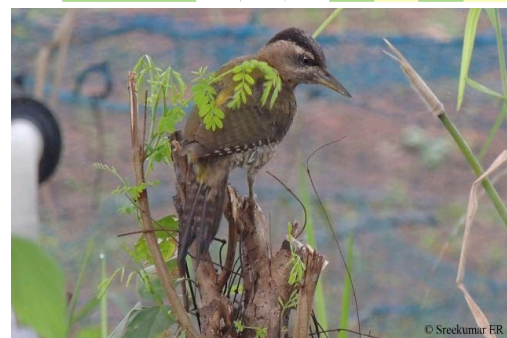


Image 54. Streak-throated Woodpecker

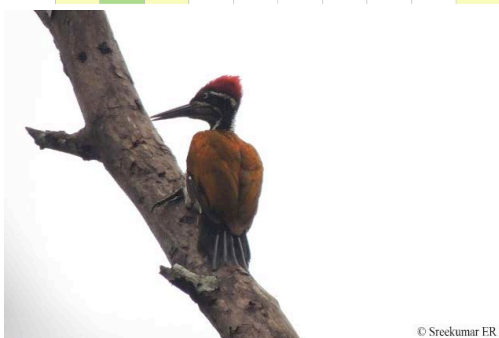
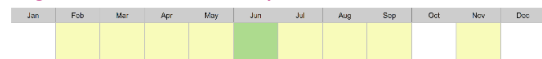


Image 55. Greater Golden-backed Woodpecker

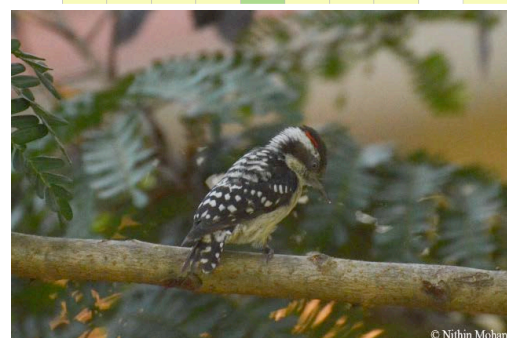
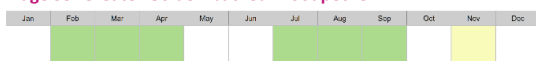


Image 56. Brown-capped Pygmy Woodpecker

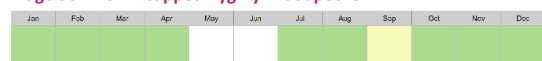






Image 57. Yellow-crowned Woodpecker



Image 58. White-cheeked Barbet

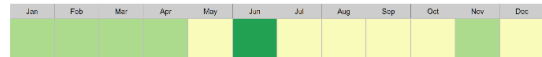


Image 59. Coppersmith Barbet

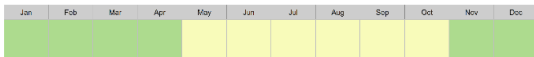


Image 60. Blue-bearded Bee-eater

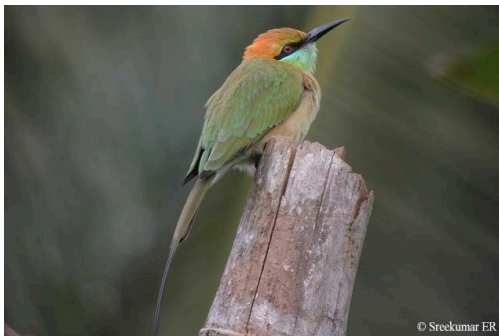


Image 61. Green Bee-eater



Image 62. Chestnut-headed Bee-eater

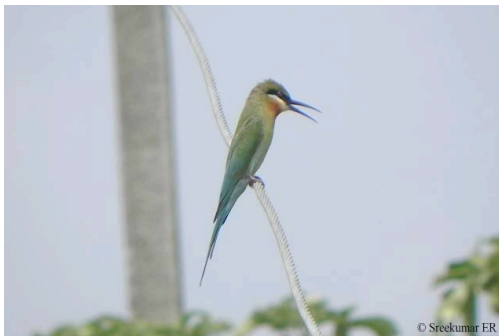


Image 63. Blue-tailed Bee-eater

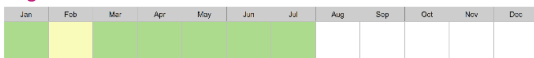


Image 64. Indian Roller





Image 65. Common Kingfisher

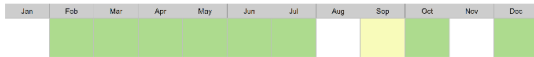


Image 66. Pied Kingfisher

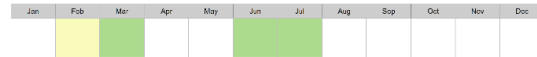


Image 67. Stork-billed Kingfisher

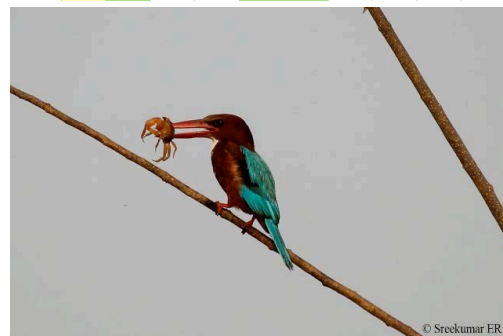
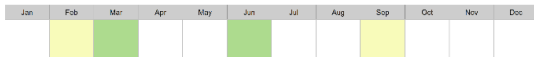


Image 68. White-throated Kingfisher

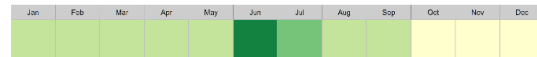


Image 69. Plum-headed Parakeet

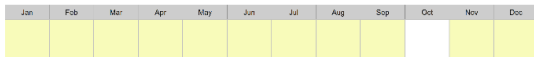


Image 70. Rose-ringed Parakeet

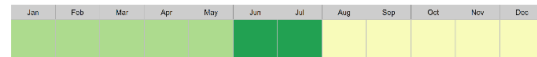


Image 71. Vernal Hanging Parrot

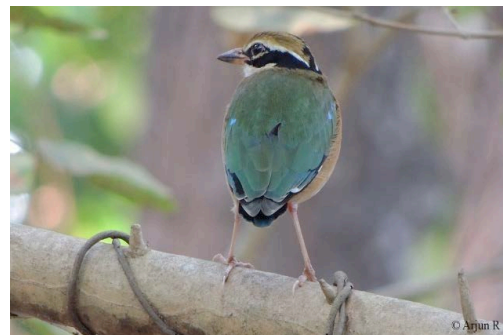
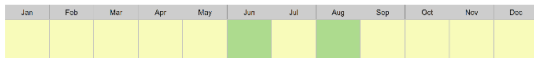


Image 72. Indian Pitta





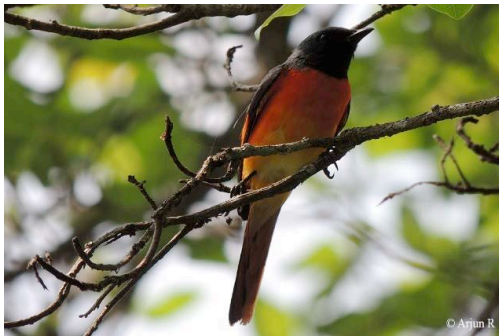


Image 73. Small Minivet

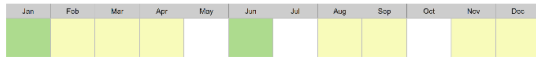


Image 74. Scarlet Minivet



Image 75. Large Cuckooshrike

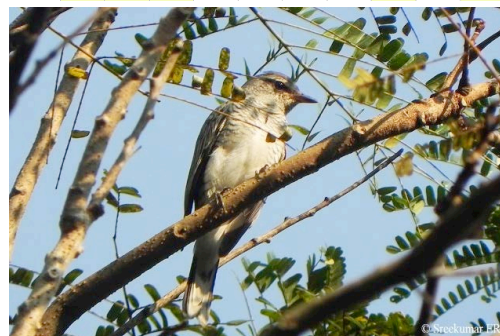


Image 76. Black-headed Cuckooshrike

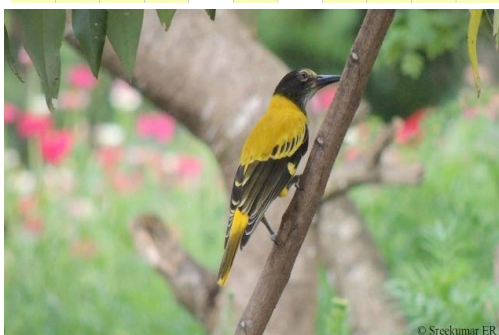


Image 77. Black-hooded Oriole

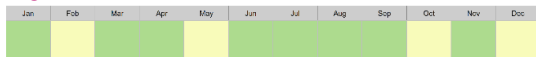


Image 78. Indian Golden Oriole



Image 79. Black-naped Oriole

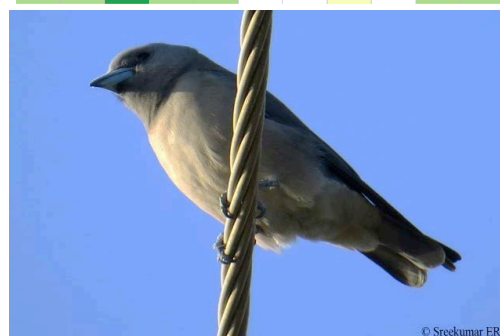


Image 80. Ashy Woodswallow

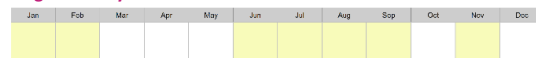




Image 81. Common Woodshrike



Image 82. Large Woodshrike

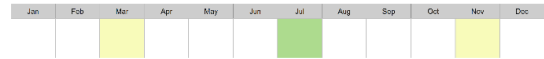


Image 83. Common Iora

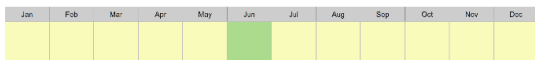


Image 84. Black Drongo

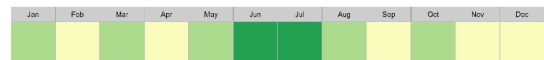


Image 85. Ashy Drongo



Image 86. White-bellied Drongo

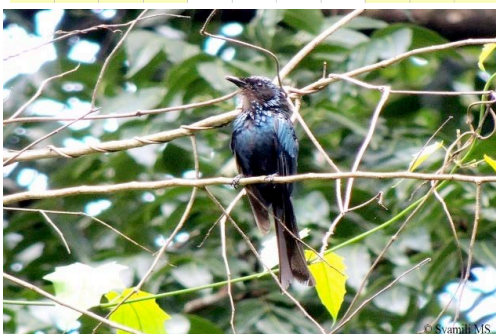


Image 87. Bronzed Drongo

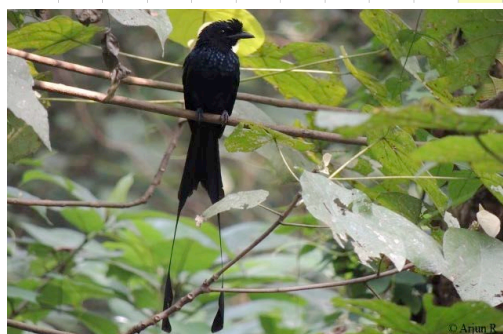
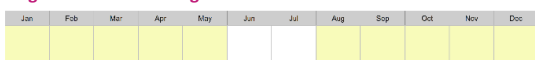


Image 88. Greater Racket-tailed Drongo

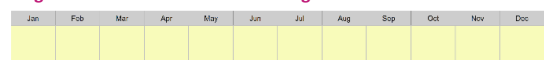






Image 89. White-browed Fantail

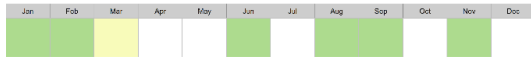


Image 90. Brown Shrike



Image 91. Rufous Treepie

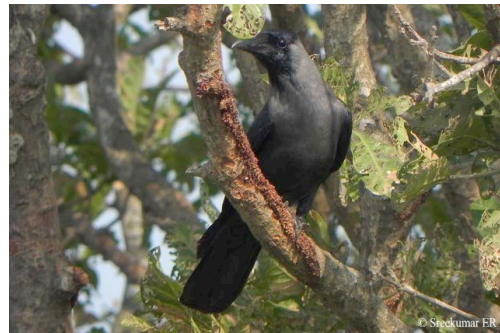
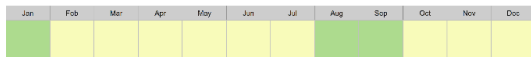


Image 92. House Crow

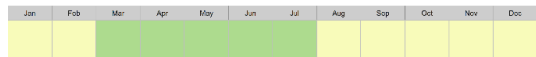


Image 93. Large-billed Crow

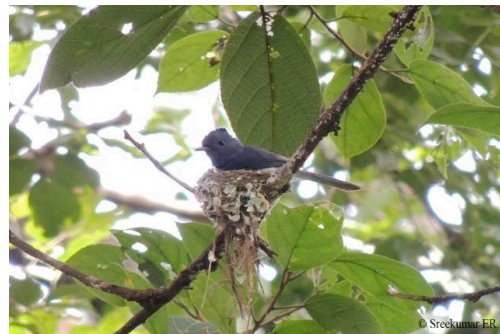
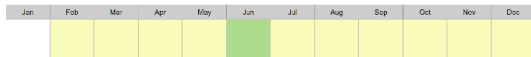


Image 94. Black-naped Monarch



Image 95. Indian Paradise-flycatcher



Image 96. Pale-billed Flowerpecker

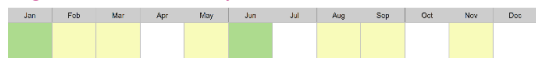






Image 97. Plain Flowerpecker



Image 98. Purple-rumped Sunbird

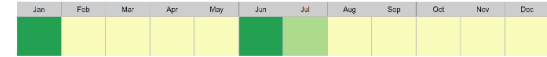


Image 99. Crimson-backed Sunbird

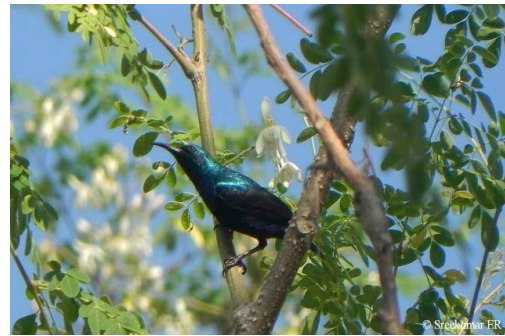


Image 100. Purple Sunbird



Image 101. Loten's Sunbird

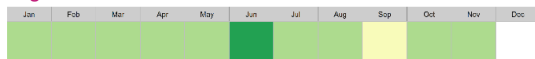


Image 102. Asian Fairy-bluebird



Image 103. Golden-fronted Leafbird

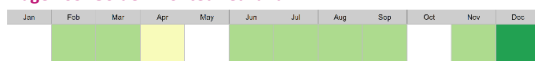


Image 104. Jerdon's Leafbird





Image 105. White-rumped Munia

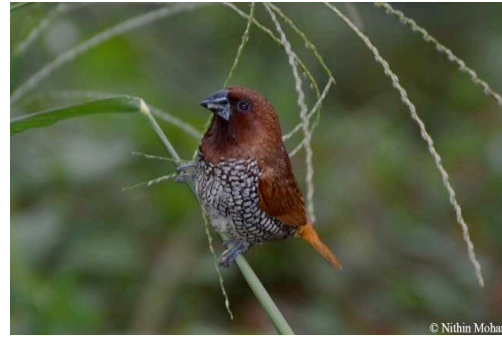
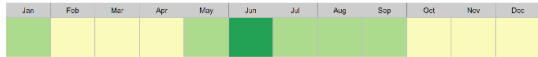


Image 106. Scaly-breasted Munia

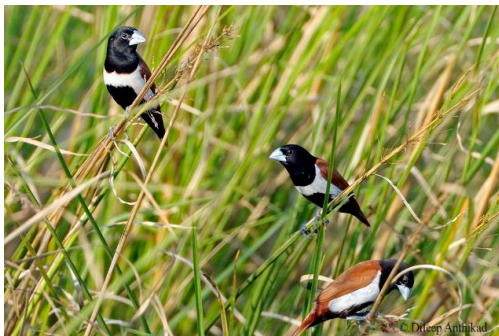
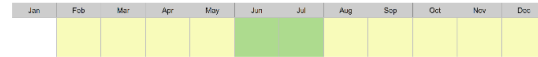


Image 107. Black-headed Munia



Image 108. Yellow-throated Sparrow

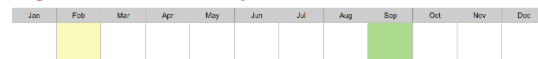


Image 109. Paddyfield Pipit



Image 110. Grey Wagtail



Image 111. White-browed Wagtail

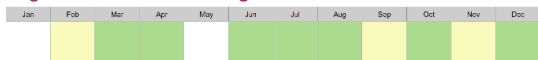


Image 112. Common Rosefinch







Image 113. Cinereous Tit

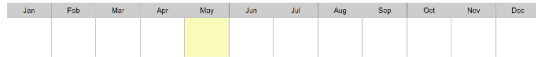


Image 114. Jerdon's Bushlark

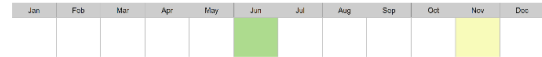


Image 115. Zitting Cisticola



Image 116. Grey-breasted Prinia

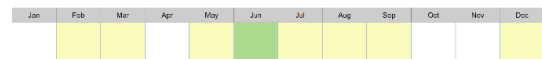


Image 117. Ashy Prinia



Image 118. Plain Prinia

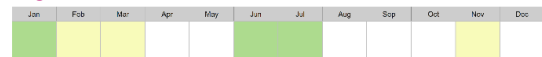


Image 119. Common Tailorbird

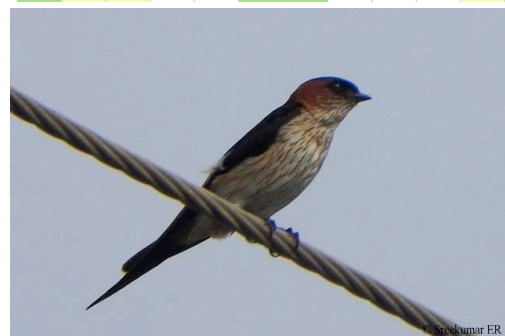
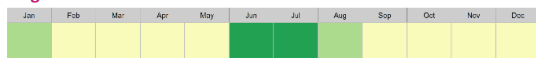


Image 120. Red-rumped Swallow

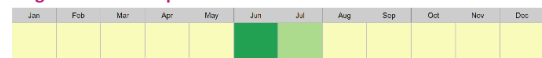




Image 121. Red-whiskered Bulbul



Image 122. Red-vented Bulbul



Image 123. White-browed Bulbul



Image 124. Yellow-browed Bulbul



Image 125. Tawny-bellied Babbler

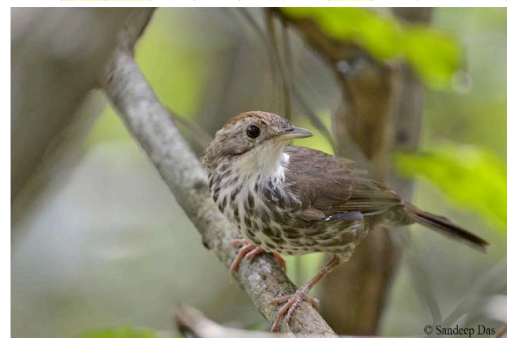


Image 126. Puff-throated Babbler



Image 127. Jungle Babbler

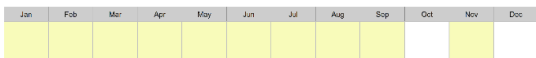
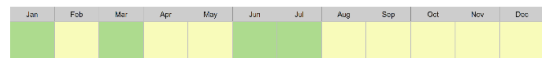


Image 128. Yellow-billed Babbler





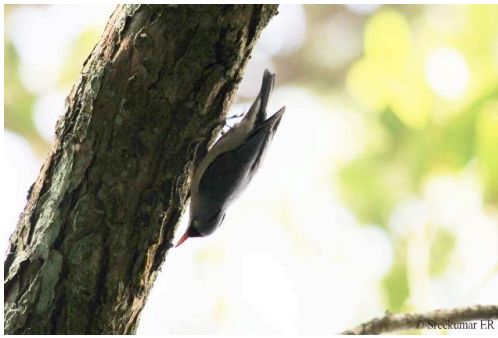


Image 129. Velvet-fronted Nuthatch



Image 130. Rosy Starling



Image 131. Brahminy Starling



Image 132. Chestnut-tailed Starling

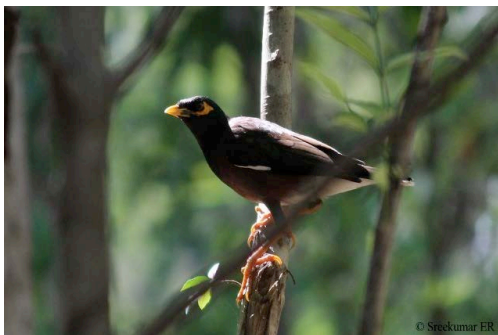


Image 133. Common Myna

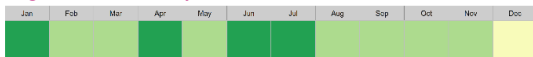


Image 134. Jungle Myna

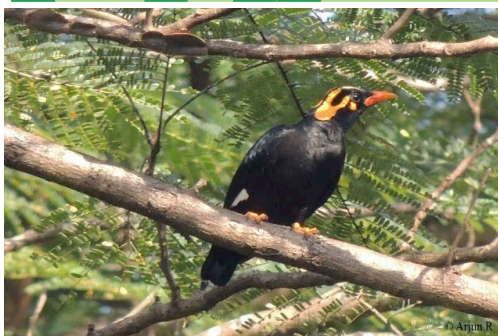
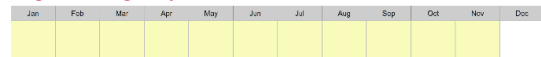


Image 135. Hill Myna

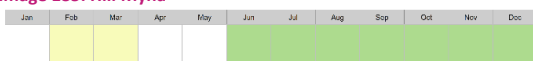


Image 136. Indian Robin

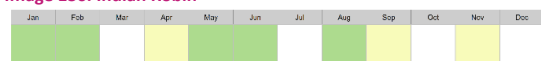






Image 137. Oriental Magpie Robin

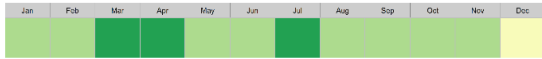


Image 138. Asian Brown Flycatcher



Image 139. Brown-breasted Flycatcher



Image 140. Verditer Flycatcher



Image 141. Orange-headed Thrush



Image 142. Indian Blackbird







OPEN ACCESS



The Journal of Threatened Taxa is dedicated to building evidence for conservation globally by publishing peer-reviewed articles online every month at a reasonably rapid rate at [www.threatenedtaxa.org](http://www.threatenedtaxa.org). All articles published in JoTT are registered under [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/) unless otherwise mentioned. JoTT allows unrestricted use of articles in any medium, reproduction, and distribution by providing adequate credit to the authors and the source of publication.

ISSN 0974-7907 (Online); ISSN 0974-7893 (Print)

August 2017 | Vol. 9 | No. 8 | Pages: 10493–10632

Date of Publication: 26 August 2017 (Online & Print)

DOI: 10.11609/jott.2017.9.8.10493-10632

[www.threatenedtaxa.org](http://www.threatenedtaxa.org)

#### Article

##### Floristic diversity of Bhimashankar Wildlife Sanctuary, northern Western Ghats, Maharashtra, India

-- Savita Sanjaykumar Rahangdale & Sanjaykumar Ramlal Rahangdale, Pp. 10493–10527

#### Communications

##### The ecology and distribution of Flying Foxes (Chiroptera: Pteropodidae: *Pteropus*) in Tanintharyi Region, Myanmar with a first mainland record of *Pteropus hypomelanus geminorum* from Myeik

-- Khin Swe Oo, Hsu Lae Win, Paul J. J. Bates & Malcolm J. Pearch, Pp. 10528–10537

##### A reassessment of the avian species diversity in the Eastern Ghats of Tamil Nadu, after the Vernay Survey

-- J. Patrick David, R.J. Ranjit Daniels & Vinoth Balasubramanian, Pp. 10538–10550

##### Angiosperm diversity in Doaba region of Punjab, India

-- Kuljinder Kaur, M.C. Sidhu & A.S. Ahluwalia, Pp. 10551–10564

#### Short Communications

##### Adventitious rooting of mature *Cycas micronesica* K.D. Hill (Cycadales: Cycadaceae) tree stems reveals moderate success for salvage of an endangered cycad

-- Thomas Edward Marler & Gil Naputi Cruz, Pp. 10565–10570

##### A new record of Harlequin Shrimp (Malacostraca: Decapoda: Palaemonidae: *Hymenocera picta* Dana, 1852) in the southern Mexican Pacific Reefs

-- Omar Valencia-Mendez, Andres Lopez-Perez, Betel Martinez-Guerrero, Virgilio Antonio-Perez & Eduardo Ramirez-Chavez, Pp. 10571–10576

##### First report of soft coral *Sarcophyton birkelandi* Verseveldt, 1978 (Anthozoa: Alcyonacea) in Indian waters from Andaman Islands

-- Seepana Rajendra, C. Raghunathan, Tamal Mondal & K. Venkataraman, Pp. 10577–10580

##### First records of *Zinaspia todara distorta* de Nicéville, 1887 and *Arhopala rama ramosa* Evans, 1925 (Lycaenidae: Theclinae) butterflies in Bangladesh

-- Tania Khan, Mohammad Quamruzzaman Babu, Mohammad Ashraf UI Hasan, Tahsinur Rahman Shihan & Prosenjit Debbarma, Pp. 10581–10584

##### Birds of the Kerala Agricultural University campus, Thrissur District, Kerala, India - an update

-- K. Abha Manohar, Arjun Ramachandran, M.S. Syamili, E.R. Sreekumar, Nithin Mohan, J. Anjali, Abinand Reddy & P.O. Nameer, Pp. 10585–10612

##### Wintering of the Grey-headed Lapwing *Vanellus cinereus* (Aves: Charadriiformes: Charadriidae) in Kerala, India

-- R. Roshnath, Pp. 10613–10617

#### Notes

##### Additional record and conservation measures of *Ceropegia odorata* Nimmo ex J. Graham from Gujarat State, India

-- S.K. Patel, B.L. Punjani, P.R. Desai, V.B. Pandey, Y.S. Chaudhary & P.N. Joshi, Pp. 10618–10622

##### Records of the Palni Hills Rudraksha Tree *Elaeocarpus blascoi* (Oxalidales: Elaeocarpaceae) in Palni Hills, Tamil Nadu, India

-- Robert Stewart & Tanya Balcar, Pp. 10623–10625

##### A checklist of butterflies (Insecta: Lepidoptera) from Taleigao Plateau, Goa, India

-- Dipak Bowalkar, Nadar Anal Gracy Michael, Kiran Gaude & I.K. Pai, Pp. 10626–10630

##### A rare sighting of the Long-tailed Duck *Clangula hyemalis* (Linnaeus, 1758) (Aves: Anseriformes: Anatidae) over a four-week period in northwestern India: first detailed scientific documentation in 73 years

-- Pushpinder S. Jamwal, Pankaj Chandan & Rohit Rattan, Pp. 10631–10632