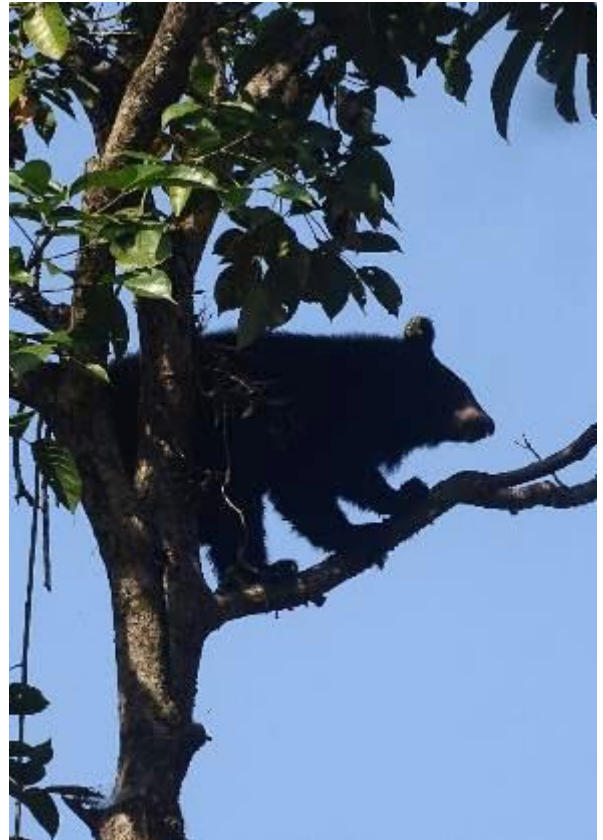


Centre for bear rehabilitation and conservation (CBRC) Quarterly report April-June
2023

New admission of bear cubs and post release monitoring of previously released bears.



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Background

The Social Forestry department rescued two male Asiatic Black Bear cubs on June 7, 2023, and delivered them to the Itanagar Zoo in Arunachal Pradesh. The cubs, then around 3 months old, were transferred to the CBRC for continued nursing and care, where they were eventually given the names Saga (2.8kg) and Lee (2.2kg) (**Figure 1**).

In the previous quarter, two bear cubs, named Itan and Den, were released into the wild. Rehab team members continued to go on bear walks until Den was collared and the two bears were released, but the collar was dropped off on March 9, 2023. The previous quarter's goal was to collect information on the bears' pre-release morphometry, diet and vegetation, behaviours, and a basic understanding of their ranging in the first month after release. During this quarter, the rehab team continues to search for the released bears, covering a radius of 5-8 kilometres around the release site. The animals have yet to be seen.



Figure 1: Rescued bear cubs from Sagalee, Itanagar admitted to CBRC on 7th June, 2023.

Death of a bear cub during nursing

On June 8th, 2023, Lee, one of the newly admitted cubs was pronounced dead at CBRC from respiratory failure brought on by a suspected viral infection called Infectious Canine Hepatitis (ICH), which causes chronic pneumonia, severe ascites, excessive deposition of foreign substances, and fluid accumulation inside the peritoneal cavity as per CBRC center veterinarian and Head Dr Panjit Basumatary.

Confirmatory Diagnosis: The diagnosis can be confirmed after receiving the results of lab tests performed on samples sent to the National institute of High Security Animal diseases, ICAR, Anand Nagar, Bhopal MP-462022 (Report attached)

Release and monitoring of released bears in the previous quarter

15th February-17th March, 2023: Both bears were tracked three times weekly after their release and were found about two to three kilometres from the bear enclosure near Hawa nala. The individuals were spotted constructing nests, and it was discovered that there was a nearby source of food. Bears are located by the rehabilitation team from a safe distance (between 30 and 50 metres away).

Ranging

The collared bear moved up to $(0.7 \text{ km})^2$ within the confines of the release site, however the collar was dropped off on 9th March, 2023 (collar retrieved at Hawa-nala area) **Figure 2**.

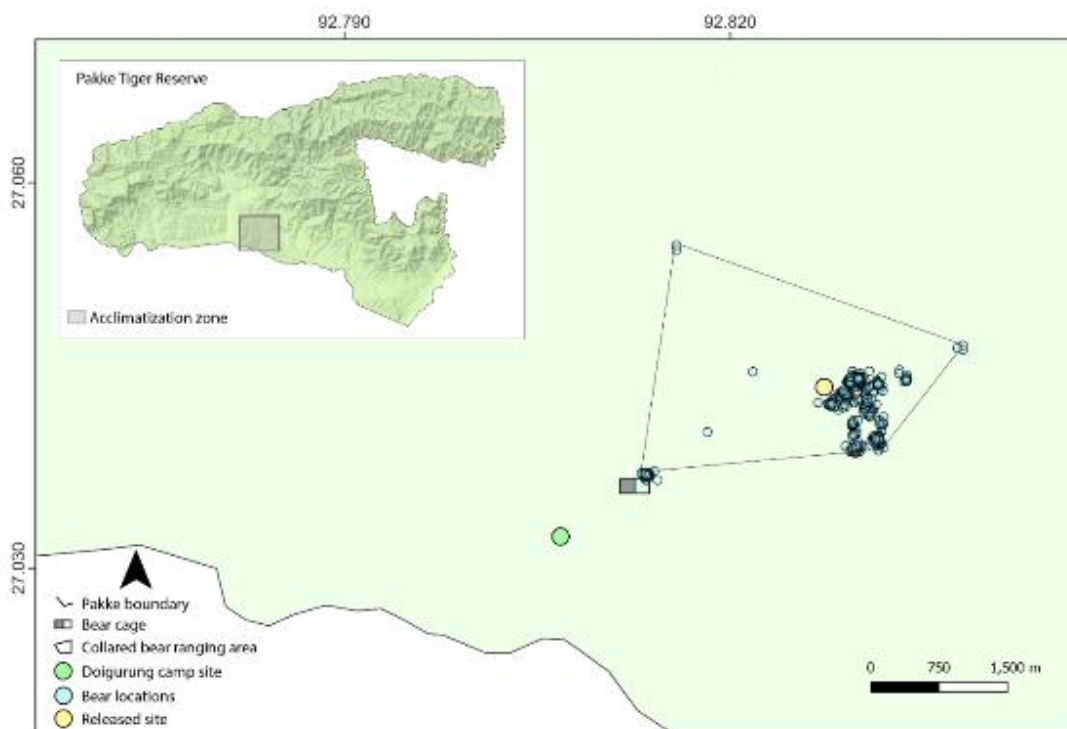


Figure 2: The collared bear ranging map, distribution at about 1.42 sq.km. before the collar dropped on 9th March, 2023 (collar retrieved at Hawa-nala area).

Post release surveys

From the end of March 2023 until the end of May 2023, the rehabilitation team walked 66 kilometres after the bears were released. During that time, the team conducted random searches of the area around the release site, which covered a radius of five to eight kilometres. The animals have not been seen to this present (The walked tracks are displayed on the map: **Figure 3** and survey effort tabulated in **Table 1**).

Table 1: Survey effort according to GPX tracks recorded while waking.

Trail ID	Length (km)	No of times walked	Effort (km)
Dekorai to Doigurung	9	7	16
Doigurung to Hawa nala	4	6	10
Hawa nala to old Dekorai bear camp	9	4	13
old Dekorai bear camp- Upper Dekorai camp	8	5	13
Total effort (km)			66

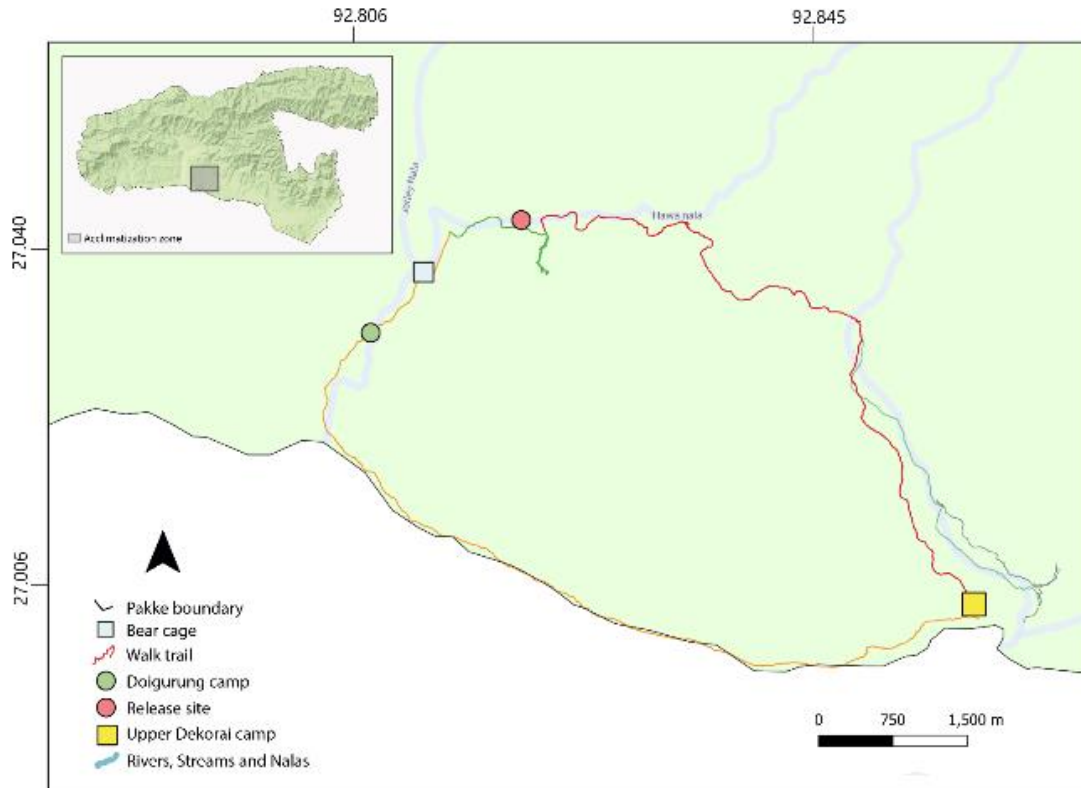


Figure 3: Map showing the random walks conducted for post release monitoring at the acclimatization site and beyond at Pakke Tiger Reserve.

Rescue activities

During the last quarter of the year, 14 animals were rescued, including four species of birds (White-throated kingfisher (1 indiv.), Dollarbird (1 indiv.), Chestnut-bellied nuthatch (1 indiv.), Asian barred owlet (4 indiv.), Oriental Bay owl (1 indiv.), etc.), four species of mammals (Himalayan serow (1 indiv.), Slow loris (1 indiv.), Asiatic black bear(2 indiv.), Yellow throated Marten(1 indiv.), and a reptile viz., Burmese python (1 indiv.). Brief details provided in **Table 2**.

Other findings and activities

Other biodiversity encountered during surveys

The members of the team have been effective in observing additional species of around 290 (147 species) flora and fauna. The observations made by the team while searching for signs of bears or individuals, are listed below and have been uploaded to inaturalist, a citizen science portal for archive and identification. The results are presented in **Figure 7** and **Table 3**.

Table 2: Rescue records during this quarter (April-June, 2023)

Species	Rescue date	Place of rescue	Details of intervention	Stage	Sex	Weight	Length (Approx)	Outcome	Date of outcome	Place of outcome
White-troated kingfisher	4/5/2023	Darlong seijosa	Bird caught by villager at pakke riverbed. Primary feather cut off	Fledgling	Male	0.102kg	BL=12cm	Died in captivity	16/05/2023	CBRC
Himalayan serow	4/13/2023	Sessa area	Animal was trapped in snare at left foreleg	Adult	Male	60kg	BL=90cm, Height=85cm	Escaped	14/04/2023	CBRC
Slow loris	4/29/2023	Monai	Animal was sitting in farm house Mr. Ram Leij	Adult	Male	1.23kg	BL=39.6 CM (1.3 Feet), Hind limb=7.5 cm, Fore limb=6cm, Neck=8cm	Released	29/04/2023	Jalinala Pakke TR
Dollarbird	5/13/2023	West bank PTR	Animal was lying near west bank Inspection Bungalow	Sub adult	Male	0.153kg	BL=12 CM	Died in captivity	13/05/2023	CBRC Pakke TR
Chestnut-bellied nuthatch	5/27/2023	West bank PTR	Animal was lying near seijosa range office	Fledgling	Male	0.070kg	BL=8 CM	Released	28/05/2023	CBRC Pakke TR
Asiatic black bear	6/1/2023	Sagalee	Animal was found alone inside forest	Infant	Male	2.8kg	BL=60 CM	Captive/pending	28/05/2023	CBRC Pakke TR

Asiatic black bear	6/1/2023	Sagalee	Animal was found alone inside forest	Infant	Male	2.280kg	BL=50 CM	Died in captivity	6/8/2023	CBRC Pakke TR
Yellow throated Marten	6/19/2023	Silluk Pasighat	Animal was rescued from the local hunter	Juvenile	Male	0.940 kg	BL=71 CM	Died in captivity	6/25/2023	Pasighat Silluk
Asian barred owlet	6/22/2023	Seijosa VKV School campus	Animal was lying in vkv school Kitchen drain	Fledgling	US	0.130KG	BL=8 CM	Released	6/2/2023	CBRC Pakke TR
Asian barred owlet	6/22/2023	Seijosa VKV School campus	Animal was lying in vkv school Kitchen drain	Fledgling	US	0.140KG	BL=8 CM	Released	6/2/2023	CBRC Pakke TR
Asian barred owlet	6/22/2023	Seijosa VKV School campus	Animal was lying in vkv school Kitchen drain	Fledgling	US	0.140KG	BL=8 CM	Released	6/2/2023	CBRC Pakke TR
Asian barred owlet	6/22/2023	Seijosa VKV School campus	Animal was lying in vkv school Kitchen drain	Fledgling	US	0.140KG	BL=8 CM	Released	6/2/2023	CBRC Pakke TR
Oriental Bay owl	6/22/2023	Silluk Pasighat	Animal was rescued from the local hunter	Adult	US	0.330kg	BL=17 CM	Released	7/8/2023	Mebo, Silluk Pasighat AP

Burmese python	6/22/2023	Darlong seijosa	Animal was found inside Basang Wage Farm land	Adult	Male	12.8kg	BL=280 CM	Released	6/22/2023	Seijosa Sukha Nala Pakke TR
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Brief Report Regarding Oriental Bay Owl:

Place of Rescued: Silluk village, Mebo Range, Pasighat Forest Division AP

Cause of displacement: Injured (people)

Date of Rescued: 22/6/2023, **Rescued by:** Villager Silluk (Dritiman Hazarika, Miding Lego & FD Mebo)

Animal Brought by: Pakke tiger reserve staff and WTI

Complicacy: Severe injury on left wing and both the legs, dehydration and Unable to take fly

Treatment: Orally rehydration, dressing the wound followed by applied antimicrobial ointment. Antibiotic course intra-muscularly for one week.

Outcome: Released at Silluk village area under Mebo range, Pasighat territorial Forest Division

Remarks: Animal was released in presence of Mebo range office staff , Local community Silluk And WTI Staff



Mission LiFE campaign and world environment day, 2023

15th May-6th June, 2023; The Divisional Forest Office of Pakke Tiger Reserve, in collaboration with Wildlife Trust of India, has initiated the mass mobilization event for Mission LiFE on Environment Sustainability to bring behavioural changes among the masses. As part of this initiative, a demonstration and interactive session for energy, water conservation, and waste management has been conducted with the frontline staff of the forest department, WTI staff, and locals. This year, the Ministry of Environment, Forest and Climate Change of the Government of India plans to celebrate World Environment Day 2023 with a focus on the Mission LiFE. At Pakke Tiger Reserve, during the closing ceremony of the Mission life campaign, Dr. Panjit Basumatary gave an inspiring talk to the students of Seijosa about how to live sustainably in harmony with the surrounding natural environment (Figure 4).



Figure 4: Few photographs of events conducted for Mission life campaign at Pakke tiger reserve.

Miss Arunachal visits to CBRC

5th-6th May, 2023; Kingfisher Miss Arunachal 2023 *Nadek Nabam* visited the Pakke tiger reserve and CBRC with 5 more pageants and the managing director. She received a warm welcome at the tiger reserve, as well as at the CBRC; Dr Panjit Basumatary briefed about the Tiger reserve and demonstrated how the CBRC works. Later a field trip was organized to Khari Beat inside the tiger reserve (**Figure 5**).



Figure 5: Dr Panjit demonstrating the working of CBRC and role of WTI in Pakke Landscape (Left); Miss Arunachal, pageants with play cards saying no bear hunting (Right).

Story links

a. Miss Arunachal Miss Nadek Nabum and their team visited CBRC, Pakke Tiger reserve seijosa

https://m.facebook.com/story.php?story_fbid=pfbid0VyfzDFLbGy9LNMRwTNBjxARJLeKa8YKs5ftZAEpZnCtrfMVMJE4GQUnjAs3NAZkl&id=100047245835539&mibextid=Nif5oz

b. https://m.facebook.com/story.php?story_fbid=pfbid021w6UZbwLgi5iVbxcVUFASkiTG2337ZpEgZ1gHX2bAyrE2SPP8WVxqSPBUCbJyEg4l&id=100047245835539&mibextid=Nif5oz

c. <https://fb.watch/klYefCGxwP/?mibextid=Nif5oz>

Kiren Rijju visit to CBRC

30th April, 2023; Law Minister *Kiren Rijju* visited Pakke Tiger reserve to promote Narendra Modi's "Mann ki baat" and later came to CBRC for a visit. He also welcomed and interacted with the 2022 IFS Service Officers under training at Pakke Tiger Reserve in Arunachal Pradesh for exposure trip (Figure 6; Left).

IFS 2022 batch visit to CBRC

30th April, 2023; 52 IFS 2022 new recruits came to Pakke tiger reserve for an exposure trip. Subhasish Arandhara, Field Officer demonstrated about the CBRC, presented an interactive keynote speech and later Aftab Ahmed joined them till Khari briefing about the Tiger reserve and the biodiversity around the reserve (Figure 6; Right).



Figure 6: Law minister Kiren Rijju visits CBRC (Left); Subhasish Arandhara briefing about CBRC and bear collaring process (Right).

Future goals

The rehab team is continuing to keep tabs on the bears that have been released and has plans this year to both create and put into action an occupancy-based method for determining the size of the bear population as well as its distribution. The newly arrived bear is currently being cared for, and the next month will be dedicated to the process of site selection.

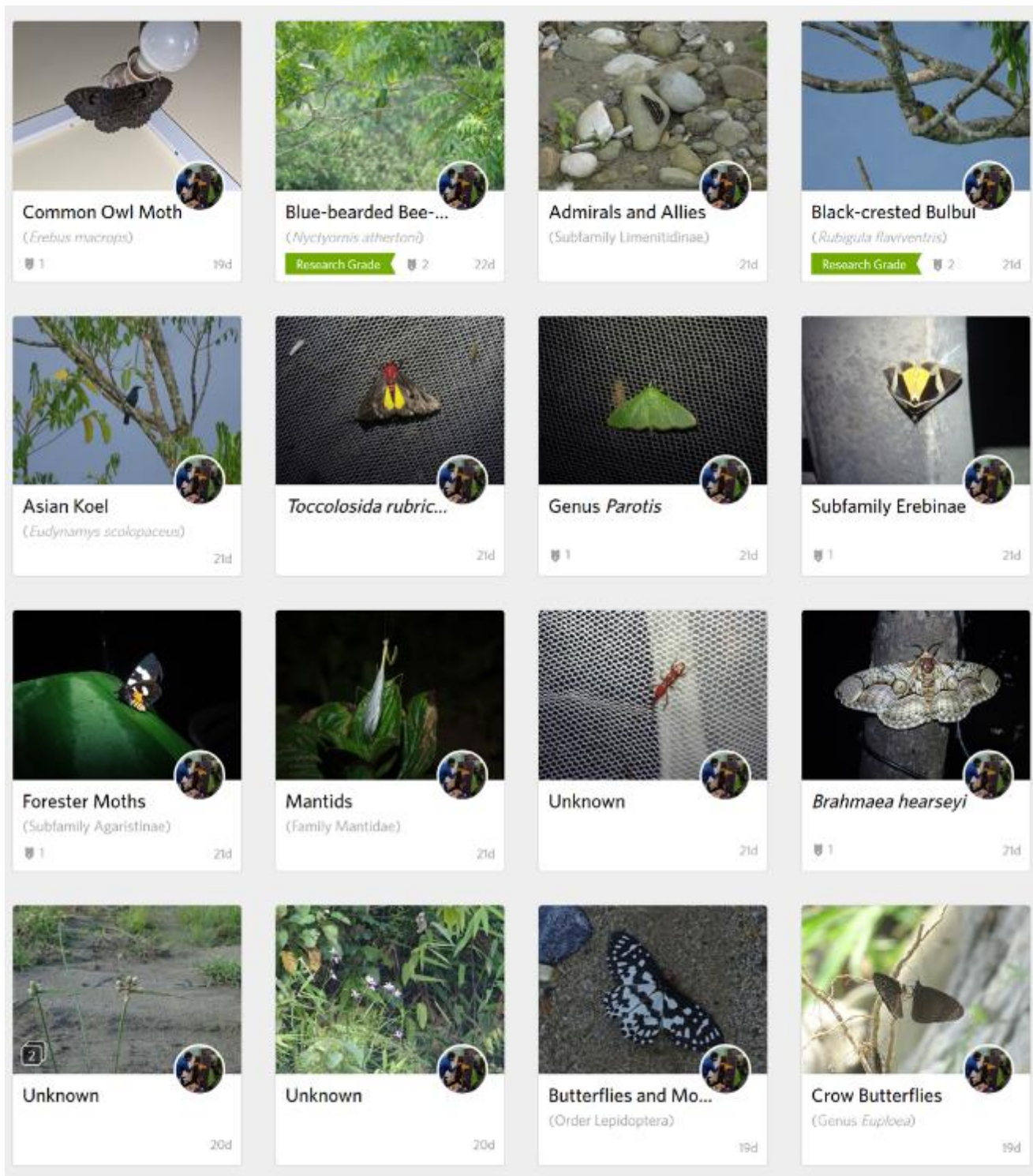


Figure 7: Few photographs of biodiversity records during survey (can be accessed through https://www.inaturalist.org/observations?place_id=168656&user_id=subhasish_arandhara&verifiable=any)

Table 3. Biodiversity of Pakke Tiger Reserve observed during the bear monitoring surveys

Sl.no.	Date_time	Latitude	Longitude	taxa group	scientific_name	common_name
1	4/30/2023 23:27	26.93778	92.97974	Arachnida	<i>Araneae</i>	Tarantula spider
2	5/26/2023 12:26	27.0134	92.86441	Aves	<i>Dicrurus paradiseus</i>	Greater Racket-tailed Drongo
3	5/26/2023 12:27	27.11034	92.95395	Aves	<i>Buceros bicornis</i>	Great Hornbill
4	5/27/2023 9:31	27.09836	92.81783	Aves	<i>Acridotheres fuscus</i>	Jungle Myna
5	5/27/2023 12:59	27.01048	92.86149	Aves	<i>Arachnothera magna</i>	Streaked Spiderhunter
6	5/26/2023 16:57	27.01052	92.86165	Aves	<i>Eudynamys scolopaceus</i>	Asian Koel
7	5/26/2023 15:33	27.01048	92.86154	Aves	<i>Rubigula flaviventris</i>	Black-crested Bulbul
8	5/25/2023 12:38	27.09836	92.81783	Aves	<i>Nyctyornis athertoni</i>	Blue-bearded Bee-eater
9	6/6/2023 16:51	27.09836	92.81783	Aves	<i>Sitta himalayensis</i>	White-tailed Nuthatch
10	5/26/2023 11:12	27.00986	92.86408	Fungi	<i>Dacrymyces spathularia</i>	Fan-shaped Jelly Fungus
11	12/15/2022 10:35	26.93812	92.97989	Insecta	<i>Darna</i>	
12	12/12/2022 14:16	27.02463	92.88391	Insecta	<i>Xylocopa tranquebarica</i>	
13	5/26/2023 16:57	27.02395	92.87635	Insecta	<i>Eudocima</i>	Fruit-piercing Moths
14	5/26/2023 15:33	27.02218	92.88257	Insecta	<i>Neurobasis chinensis</i>	Green Metalwing
15	5/25/2023 12:38	27.09836	92.81783	Insecta	<i>Cigaritis</i>	Silverlines
16	4/24/2023 19:10	26.93781	92.97985	Insecta	<i>Spilomelinae</i>	Pearl Moths
17	4/23/2023 19:15	26.93778	92.97958	Insecta	<i>Marumba</i>	
18	4/23/2023 19:06	26.93778	92.97958	Insecta	<i>Lymantria</i>	
19	4/24/2023 20:00	26.93777	92.97975	Insecta	<i>Parum colligata</i>	
20	4/23/2023 1:37	26.93787	92.97962	Insecta	<i>Ganisa</i>	
21	4/24/2023 19:03	26.93803	92.97986	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
22	4/24/2023 22:10	26.93774	92.97976	Insecta	<i>Spirama</i>	
23	4/24/2023 22:11	26.93774	92.97976	Insecta	<i>Biston panterinaria</i>	
24	4/24/2023 22:09	26.93774	92.97976	Insecta	<i>Geometridae</i>	Geometer Moths
25	4/25/2023 6:41	26.93774	92.97985	Insecta	<i>Marumba</i>	
26	4/25/2023 6:40	26.93767	92.97978	Insecta	<i>Sphingidae</i>	Sphinx Moths
27	4/25/2023 21:51	26.93795	92.97969	Insecta	<i>Brihaspa atrostigmella</i>	
28	4/27/2023 4:55	27.09836	92.81783	Insecta	<i>Phalera grotei</i>	Grote's Buff-tip
29	4/27/2023 4:50	27.09836	92.81783	Insecta	<i>Clanis bilineata</i>	
30	4/27/2023 4:51	27.09836	92.81783	Insecta	<i>Choerocampina</i>	
31	4/26/2023 21:40	27.09836	92.81783	Insecta	<i>Spilomelinae</i>	Pearl Moths
32	4/26/2023 21:22	27.09836	92.81783	Insecta	<i>Cydalima</i>	
33	4/26/2023 21:41	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths

34	4/26/2023 21:40	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
35	4/26/2023 21:22	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
36	4/26/2023 21:22	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
37	4/27/2023 2:24	27.09836	92.81783	Insecta	<i>Craspedortha porphyria</i>	Purple hawkmoth
38	4/26/2023 21:39	27.09836	92.81783	Insecta	<i>Ennominae</i>	
39	4/26/2023 21:23	27.09836	92.81783	Insecta	<i>Lithosiini</i>	Lichen Moths
40	4/26/2023 21:42	27.09836	92.81783	Insecta	<i>Lithosiini</i>	Lichen Moths
41	4/27/2023 2:24	27.09836	92.81783	Insecta	<i>Lithosiini</i>	Lichen Moths
42	4/26/2023 21:23	27.09836	92.81783	Insecta	<i>Pyraloidea</i>	Pyralid and Crambid Snout Moths
43	4/26/2023 21:38	27.09836	92.81783	Insecta	<i>Maliattha separata</i>	
44	4/26/2023 21:22	27.09836	92.81783	Insecta	<i>Hymenoptera</i>	Ants, Bees, Wasps, and Sawflies
45	4/26/2023 22:21	27.09836	92.81783	Insecta	<i>Lecithoceridae</i>	Long-horned Moths
46	4/27/2023 4:54	27.09836	92.81783	Insecta	<i>Neocerura</i>	
47	4/26/2023 19:52	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
48	4/26/2023 19:48	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
49	4/30/2023 7:55	26.93771	92.9797	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
50	5/2/2023 6:47	26.93791	92.97966	Insecta	<i>Acentropinae</i>	China-mark Moths
51	5/4/2023 7:16	26.93766	92.97982	Insecta	<i>Lasiocampidae</i>	Lappet Moths
52	5/4/2023 7:18	26.93766	92.97982	Insecta	<i>Phalera grotei</i>	Grote's Buff-tip
53	5/5/2023 19:55	26.93785	92.97964	Insecta	<i>Ischnurges gratiosalis</i>	
54	5/6/2023 14:13	26.94111	92.9777	Insecta	<i>Graphium antiphates</i>	Five-bar Swordtail
55	5/6/2023 21:39	26.93794	92.97989	Insecta	<i>Chiasmia</i>	
56	5/6/2023 21:39	26.93794	92.97989	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
57	5/6/2023 21:39	26.93794	92.97989	Insecta	<i>Helicoverpa</i>	
58	5/7/2023 9:01	26.94092	92.9778	Insecta	<i>Diptera</i>	Flies
59	5/7/2023 9:02	26.94092	92.9778	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
60	5/7/2023 9:41	26.94105	92.97739	Insecta	<i>Graphium sarpedon</i>	Common Bluebottle
61	5/7/2023 10:18	26.94102	92.97768	Insecta	<i>Eurema</i>	Grass Yellows
62	5/7/2023 10:36	26.94093	92.97739	Insecta	<i>Kallima inachus inachus</i>	Himalayan Orange Oakleaf
63	5/7/2023 10:41	26.94114	92.97777	Insecta	<i>Hypolycaena erylus</i>	Common Tit
64	5/7/2023 8:16	26.94118	92.97789	Insecta	<i>Graphium agamemnon menides</i>	Dakhan Tailed Jay
65	5/8/2023 10:46	26.93869	92.97826	Insecta	<i>Appias indra</i>	Plain Puffin

66	5/8/2023 10:47	26.93869	92.97826	Insecta	<i>Cepora nadina</i>	Lesser Gull
67	5/8/2023 12:55	26.93869	92.97826	Insecta	<i>Graphium doson</i>	Common Jay
68	5/8/2023 13:00	26.93869	92.97826	Insecta	<i>Cosmodela virgula</i>	
69	5/8/2023 13:01	26.93869	92.97826	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
70	5/8/2023 13:06	26.93869	92.97826	Insecta	<i>Papilio helenus</i>	Red Helen Swallowtail
71	5/8/2023 13:15	26.93869	92.97826	Insecta	<i>Graphium antiphates</i>	Five-bar Swordtail
72	4/10/2023 12:58	27.03655	92.81274	Insecta	<i>Ticherra acte</i>	Blue Imperial
73	4/27/2023 6:02	27.04593	92.7796	Insecta	<i>Smerinthinae</i>	
74	5/8/2023 11:28	26.94108	92.97759	Insecta	<i>Polyommatae</i>	Blues
75	5/8/2023 19:11	26.93782	92.97973	Insecta	<i>Limacodinae</i>	
76	5/8/2023 19:11	26.93788	92.97972	Insecta	<i>Limacodidae</i>	Slug Caterpillar Moths
77	5/8/2023 19:09	26.93787	92.97969	Insecta	<i>Enispa elataria</i>	
78	5/8/2023 20:40	26.9378	92.97964	Insecta	<i>Episothalma robustaria</i>	
79	5/8/2023 20:39	26.9378	92.97964	Insecta	<i>Pyralinae</i>	
80	5/8/2023 20:42	26.9378	92.97964	Insecta	<i>Idaea violacea</i>	
81	5/8/2023 22:17	26.9378	92.97964	Insecta	<i>Brihaspa atrostigmella</i>	
82	5/8/2023 22:18	26.9378	92.97964	Insecta	<i>Schoenobiinae</i>	
83	5/9/2023 10:21	26.94123	92.97777	Insecta	<i>Cyrestis thyodamas</i>	Common Mapwing
84	5/9/2023 10:23	26.94108	92.97742	Insecta	<i>Cirrochroa aoris</i>	Large Yeoman
85	5/9/2023 11:54	26.94101	92.97785	Insecta	<i>Pingasa</i>	
86	5/9/2023 9:11	26.94094	92.97785	Insecta	<i>Syngamia latimarginalis</i>	
87	5/9/2023 10:20	26.94123	92.97777	Insecta	<i>Scopula</i>	
88	5/9/2023 14:27	26.9378	92.97964	Insecta	<i>Dysgonia</i>	
89	5/9/2023 15:35	26.94106	92.97776	Insecta	<i>Attatha regalis</i>	
90	5/10/2023 21:14	26.9378	92.97964	Insecta	<i>Syntomoides imaon</i>	Handmaiden moth
91	5/10/2023 21:16	26.9378	92.97964	Insecta	<i>Eupterotidae</i>	Monkey Moths
92	5/10/2023 22:41	26.9378	92.97964	Insecta	<i>Limacodinae</i>	
93	5/10/2023 22:41	26.9378	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
94	5/10/2023 22:41	26.9378	92.97964	Insecta	<i>Phocoderma velutina</i>	
95	5/11/2023 9:24	26.94115	92.97756	Insecta	<i>Cirrochroa aoris</i>	Large Yeoman
96	5/11/2023 19:13	26.9378	92.97964	Insecta	<i>Heterostegane</i>	
97	5/12/2023 8:50	26.9378	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
98	5/12/2023 12:11	26.94096	92.97779	Insecta	<i>Neptis</i>	Typical Sailers
99	5/12/2023 19:33	26.9378	92.97964	Insecta	<i>Endotricha</i>	
100	5/12/2023 19:33	26.93786	92.97976	Insecta	<i>Arctioleptis rubida</i>	
101	5/12/2023 19:32	26.93786	92.97976	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
102	5/12/2023 22:48	26.9378	92.97964	Insecta	<i>Idaea</i>	
103	5/12/2023 22:47	26.9378	92.97964	Insecta	<i>Melinaria</i>	

104	5/12/2023 22:47	26.9378	92.97964	Insecta	<i>Erebidae</i>	Underwing, Tiger, Tussock, and Allied Moths
105	5/12/2023 22:50	26.9378	92.97964	Insecta	<i>Eupterotidae</i>	Monkey Moths
106	5/13/2023 6:16	26.93783	92.97964	Insecta	<i>Macroglossinae</i>	Macroglossine Sphinx Moths
107	5/13/2023 9:32	26.94077	92.97806	Insecta	<i>Junonia iphita</i>	Chocolate Pansy
108	5/13/2023 9:36	26.93939	92.97757	Insecta	<i>Hestinalis nama</i>	Circe
109	4/30/2023 7:55	26.93771	92.9797	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
110	5/13/2023 22:00	26.9378	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
111	5/14/2023 9:38	26.9378	92.97964	Insecta	<i>Fascellina plagiata</i>	
112	5/14/2023 10:12	26.94123	92.9779	Insecta	<i>Ennominae</i>	
113	5/14/2023 9:41	26.9378	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
114	5/14/2023 10:38	26.94119	92.97774	Insecta	<i>Hasora anura</i>	Slate Awl
115	5/14/2023 10:40	26.94103	92.97784	Insecta	<i>Ectropis bhurmitra</i>	Burmese Engrailed Moth
116	5/14/2023 10:53	26.94119	92.9775	Insecta	<i>Ricaniidae</i>	Ricaniid Planthoppers
117	5/14/2023 11:01	26.93927	92.97723	Insecta	<i>Mecysolobini</i>	
118	5/14/2023 19:54	26.9378	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
119	5/14/2023 19:55	26.93777	92.97984	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
120	5/14/2023 21:39	26.9378	92.97964	Insecta	<i>Cyana</i>	
121	5/14/2023 21:41	26.93783	92.97972	Insecta	<i>Scirpophaga incertulas</i>	Rice Yellow Stem Borer
122	5/14/2023 21:41	26.93783	92.97972	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
123	5/14/2023 21:56	26.93777	92.97965	Insecta	<i>Eupterotidae</i>	Monkey Moths
124	5/14/2023 10:31	26.94095	92.97748	Insecta	<i>Euploea</i>	Crow Butterflies
125	5/8/2023 22:12	26.9378	92.97965	Insecta	<i>Nygmiiini</i>	
126	5/9/2023 19:45	26.9378	92.97964	Insecta	<i>Hymenoptera</i>	Ants, Bees, Wasps, and Sawflies
127	11/10/2022 16:35	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
128	5/21/2023 20:30	26.938	92.97984	Insecta	<i>Phalera grotei</i>	Grote's Buff-tip
129	5/21/2023 20:29	26.93777	92.97969	Insecta	<i>Episparis tortuosalis</i>	
130	5/21/2023 20:29	26.93777	92.97969	Insecta	<i>Eupterote</i>	
131	5/21/2023 20:29	26.93777	92.97969	Insecta	<i>Phocoderma</i>	
132	5/21/2023 20:29	26.93777	92.97969	Insecta	<i>Diasemia</i>	
133	5/21/2023 20:39	26.93789	92.97974	Insecta	<i>Bastilla crameri</i>	
134	5/21/2023 20:38	26.93769	92.97959	Insecta	<i>Boarmiini</i>	
135	5/22/2023 9:41	26.93785	92.97964	Insecta	<i>Eupterote</i>	

136	5/22/2023 10:53	26.94002	92.97788	Insecta	<i>Papilio clytia</i>	Common Mime Swallowtail
137	5/22/2023 10:55	26.94058	92.97811	Insecta	<i>Zeltus amasa</i>	Fluffy Tit
138	5/22/2023 11:08	26.94088	92.9778	Insecta	<i>Sterrhini</i>	
139	5/22/2023 11:15	26.94092	92.97755	Insecta	<i>Crambidae</i>	Crambid Snout Moths
140	5/22/2023 11:13	26.94108	92.97771	Insecta	<i>Celenna festivaria</i>	
141	5/22/2023 11:14	26.94109	92.97775	Insecta	<i>Limacodidae</i>	Slug Caterpillar Moths
142	5/22/2023 19:50	26.93785	92.97964	Insecta	<i>Brihaspa atrostigmella</i>	
143	5/22/2023 20:09	26.93791	92.97984	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
144	5/22/2023 20:09	26.93785	92.97964	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
145	5/22/2023 21:03	26.93785	92.97964	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
146	5/22/2023 21:33	26.93785	92.97964	Insecta	<i>Episothalma robustaria</i>	
147	5/22/2023 21:33	26.93785	92.97964	Insecta	<i>Scirpophaga</i>	
148	5/22/2023 21:38	26.93793	92.97973	Insecta	<i>Hypena</i>	
149	5/22/2023 21:50	26.93785	92.97964	Insecta	<i>Nevromus intimus</i>	
150	5/23/2023 20:03	26.93785	92.97964	Insecta	<i>Parum colligata</i>	
151	5/26/2023 10:13	27.0103	92.86149	Insecta	<i>Areas galactina</i>	milky tiger moth
152	5/26/2023 9:11	27.01032	92.86162	Insecta	<i>Metanastris gemella</i>	
153	5/25/2023 13:50	27.03257	92.80929	Insecta	<i>Pyrgomorphidae</i>	Gaudy Grasshoppers
154	5/26/2023 13:56	27.01792	92.85965	Insecta	<i>Euploea radamanthus</i>	Magpie Crow Butterfly
155	5/27/2023 5:17	27.01023	92.86167	Insecta	<i>Sphingidae</i>	Sphinx Moths
156	5/27/2023 5:16	27.01023	92.86167	Insecta	<i>Sphingidae</i>	Sphinx Moths
157	5/27/2023 5:17	27.0103	92.86171	Insecta	<i>Smerinthinae</i>	
158	5/26/2023 9:12	27.01032	92.86157	Insecta	<i>Ennominae</i>	
159	5/26/2023 13:11	27.01662	92.85977	Insecta	<i>Graphium xenocles</i>	Great Zebra
160	5/27/2023 5:15	27.01033	92.86168	Insecta	<i>Smerinthinae</i>	
161	5/26/2023 13:48	27.01956	92.85733	Insecta	<i>Loxura atymnus</i>	Common Yamfly
162	5/26/2023 13:26	27.01817	92.85928	Insecta	<i>Heliocypha perforata</i>	Common Blue Jewel
163	5/27/2023 5:14	27.01026	92.86176	Insecta	<i>Ambulyx</i>	
164	5/27/2023 5:01	27.01033	92.86165	Insecta	<i>Anomini</i>	
165	5/26/2023 11:39	27.01212	92.86572	Insecta	<i>Utetheisa</i>	Rattlepod Moths
166	5/26/2023 12:08	27.01414	92.86695	Insecta	<i>Orsotriaena medus</i>	Smooth-eyed Bushbrown
167	5/25/2023 21:44	27.01029	92.86165	Insecta	<i>Eucyclodes sanguilineata</i>	
168	5/27/2023 19:31	27.0101	92.86146	Insecta	<i>Thyas coronata</i>	Yellow Underwing
169	5/25/2023 19:54	27.01032	92.86167	Insecta	<i>Theretra</i>	Hunter Hawkmoths
170	5/25/2023 19:22	27.01028	92.86169	Insecta	<i>Lygniodes</i>	

171	5/25/2023 19:27	27.01031	92.86169	Insecta	<i>Acosmeryx</i>	
172	5/25/2023 19:30	27.0103	92.8617	Insecta	<i>Nygmiiini</i>	
173	5/25/2023 19:37	27.01032	92.86169	Insecta	<i>Dermaptera</i>	Earwigs
174	5/25/2023 19:39	27.01032	92.86167	Insecta	<i>Arctioleptis rubida</i>	
175	5/25/2023 19:42	27.01032	92.86168	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
176	5/25/2023 19:45	27.01032	92.8617	Insecta	<i>Limacodidae</i>	Slug Caterpillar Moths
177	5/25/2023 19:45	27.01032	92.8617	Insecta	<i>Heortia vitessoides</i>	
178	5/25/2023 19:51	27.01031	92.86164	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
179	5/25/2023 19:53	27.01032	92.86167	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
180	5/25/2023 19:55	27.01032	92.86167	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
181	5/25/2023 20:03	27.0103	92.86166	Insecta	<i>Heterocnephes lymphatalis</i>	
182	5/25/2023 19:56	27.01032	92.86167	Insecta	<i>Limacodidae</i>	Slug Caterpillar Moths
183	5/25/2023 20:04	27.01029	92.86167	Insecta	<i>Stigmatophora palmata</i>	
184	5/25/2023 19:59	27.01031	92.86167	Insecta	<i>Geometridae</i>	Geometer Moths
185	5/25/2023 19:56	27.01032	92.86167	Insecta	<i>Glyphodes actorionalis</i>	
186	5/25/2023 20:23	27.01029	92.86165	Insecta	<i>Chalcidica</i>	
187	5/25/2023 20:25	27.01029	92.86166	Insecta	<i>Arcte coerulea</i>	Ramie Moth
188	5/25/2023 20:27	27.01031	92.86165	Insecta	<i>Brunia</i>	
189	5/25/2023 20:27	27.01031	92.86165	Insecta	<i>Spilomelinae</i>	Pearl Moths
190	5/25/2023 20:29	27.01031	92.86164	Insecta	<i>Miresa</i>	
191	5/25/2023 20:29	27.01031	92.86164	Insecta	<i>Acosmeryx</i>	
192	5/25/2023 20:25	27.01029	92.86166	Insecta	<i>Cirrhochrsta fumipalpis</i>	
193	5/25/2023 20:33	27.01031	92.86166	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
194	5/25/2023 20:34	27.01031	92.86166	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
195	5/25/2023 20:38	27.01029	92.86166	Insecta	<i>Geometrinae</i>	Emerald Moths
196	5/25/2023 20:39	27.0103	92.86166	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
197	5/25/2023 20:40	27.0103	92.86165	Insecta	<i>Acosmeryx</i>	
198	5/25/2023 20:41	27.01028	92.86165	Insecta	<i>Chiasmia</i>	
199	5/25/2023 20:46	27.0103	92.86166	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
200	5/25/2023 20:46	27.0103	92.86166	Insecta	<i>Pygospila tyres</i>	Chequered Snout
201	5/25/2023 20:46	27.0103	92.86166	Insecta	<i>Elibia dolichoides</i>	
202	5/25/2023 20:47	27.0103	92.86166	Insecta	<i>Sphingidae</i>	Sphinx Moths
203	5/25/2023 20:53	27.0103	92.86165	Insecta	<i>Boarmiini</i>	
204	5/25/2023 20:53	27.0103	92.86165	Insecta	<i>Autocharis amethystina</i>	
205	5/25/2023 21:01	27.01029	92.86165	Insecta	<i>Spilomelinae</i>	Pearl Moths

206	5/25/2023 21:03	27.01027	92.86167	Insecta	<i>Asota</i>	
207	5/25/2023 21:17	27.01028	92.86167	Insecta	<i>Eucyclodes sanguilineata</i>	
208	5/25/2023 21:45	27.01029	92.86165	Insecta	<i>Cirrhochrsta fumipalpis</i>	
209	5/25/2023 21:46	27.0103	92.86166	Insecta	<i>Sphingidae</i>	Sphinx Moths
210	5/25/2023 21:47	27.01031	92.86165	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
211	5/25/2023 21:48	27.01031	92.86164	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
212	5/25/2023 21:49	27.01031	92.86164	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
213	5/25/2023 21:49	27.01031	92.86164	Insecta	<i>Cicindela octonotata</i>	
214	5/25/2023 21:50	27.01031	92.86164	Insecta	<i>Nudariina</i>	
215	5/25/2023 21:51	27.01031	92.86165	Insecta	<i>Asota caricae</i>	Tropical Tiger Moth
216	5/25/2023 21:52	27.01031	92.86165	Insecta	<i>Carriola ecnomoda</i>	
217	5/25/2023 21:54	27.01032	92.86165	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
218	5/25/2023 23:01	27.01031	92.86162	Insecta	<i>Erebus caprimulgus</i>	
219	5/25/2023 23:02	27.01032	92.86162	Insecta	<i>Geometroidea</i>	Geometrid and Swallowtail Moths
220	5/25/2023 23:04	27.01029	92.86166	Insecta	<i>Geometrinae</i>	Emerald Moths
221	5/25/2023 23:08	27.01029	92.86165	Insecta	<i>Boarmiini</i>	
222	5/25/2023 23:09	27.01029	92.86165	Insecta	<i>Spilomelinae</i>	Pearl Moths
223	5/25/2023 23:10	27.01029	92.86166	Insecta	<i>Phalera grotei</i>	Grote's Buff-tip
224	5/25/2023 23:10	27.01029	92.86166	Insecta	<i>Areas galactina</i>	milky tiger moth
225	5/25/2023 23:10	27.01029	92.86166	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
226	5/25/2023 23:13	27.0103	92.86165	Insecta	<i>Drepaninae</i>	Hooktip Moths
227	5/25/2023 23:14	27.01028	92.86167	Insecta	<i>Hyposidra infixaria</i>	
228	5/25/2023 23:14	27.01029	92.86168	Insecta	<i>Hypomecis</i>	
229	5/25/2023 23:14	27.01028	92.86168	Insecta	<i>Anobinae</i>	
230	5/26/2023 12:50	27.01549	92.862	Insecta	<i>Aristocypha</i>	
231	5/26/2023 12:33	27.01365	92.86329	Insecta	<i>Brachythemis contaminata</i>	Ditch Jewel
232	5/26/2023 13:09	27.01657	92.85973	Insecta	<i>Graphium antiphates</i>	Five-bar Swordtail
233	5/26/2023 13:50	27.01878	92.85797	Insecta	<i>Heliophorus</i>	
234	5/26/2023 13:05	27.01656	92.85985	Insecta	<i>Pieridae</i>	Whites, Yellows, and Sulphurs
235	5/26/2023 13:58	27.01702	92.85954	Insecta	<i>Cirrochroa</i>	
236	5/26/2023 14:01	27.01593	92.86085	Insecta	<i>Neptis</i>	Typical Sailers
237	5/27/2023 5:30	27.01039	92.86165	Insecta	<i>Dysphania militaris</i>	False Tiger Moth
238	5/14/2023 10:38	26.94119	92.97774	Insecta	<i>Hasora badra</i>	Common Awl
239	4/27/2023 2:23	27.09836	92.81783	Insecta	<i>Eupterotidae</i>	Monkey Moths
240	4/26/2023 21:39	27.09836	92.81783	Insecta	<i>Lasiocampidae</i>	Lappet Moths
241	4/26/2023 21:40	27.09836	92.81783	Insecta	<i>Crambidae</i>	Crambid Snout Moths

242	4/26/2023 21:40	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
243	4/27/2023 2:24	27.09836	92.81783	Insecta	<i>Nephelomilta</i>	
244	5/11/2023 9:24	26.94115	92.97756	Insecta	<i>Cirrochroa</i>	
245	4/30/2023 7:55	26.93771	92.9797	Insecta	<i>Noctuoidea</i>	Owlet Moths and Allies
246	4/26/2023 21:42	26.94128	92.97761	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
247	5/6/2023 8:55	26.93784	92.97964	Insecta	<i>Insecta</i>	Insects
248	4/26/2023 22:19	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
249	4/27/2023 2:24	27.09836	92.81783	Insecta	<i>Sphingidae</i>	Sphinx Moths
250	5/27/2023 10:43	27.01048	92.86145	Insecta	<i>Cyana</i>	
251	5/27/2023 5:16	27.01023	92.86167	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
252	5/27/2023 5:14	27.01026	92.86176	Insecta	<i>Choerocampina</i>	
253	5/27/2023 5:06	27.01032	92.86161	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
254	5/27/2023 5:03	27.01032	92.86161	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
255	5/27/2023 5:01	27.01028	92.86164	Insecta	<i>Xyleutes persona</i>	
256	5/27/2023 5:00	27.01028	92.86164	Insecta	<i>Phalera</i>	
257	5/27/2023 5:00	27.01028	92.86164	Insecta	<i>Amerila</i>	Frothers
258	5/27/2023 4:57	27.01028	92.86163	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
259	5/27/2023 5:09	27.01031	92.86166	Insecta	<i>Psilogramma</i>	
260	5/28/2023 19:09	26.93795	92.97979	Insecta	<i>Erebus hieroglyphica</i>	White-barred Owl moth
261	5/28/2023 12:03	27.01038	92.86229	Insecta	<i>Euploea</i>	Crow Butterflies
262	5/28/2023 16:05	27.09836	92.81783	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
263	5/26/2023 19:46	27.01032	92.86169	Insecta	<i>Brahmaea hearseyi</i>	
264	5/26/2023 21:38	27.01033	92.86166	Insecta	<i>Mantidae</i>	Mantids
265	5/26/2023 21:59	27.01039	92.86166	Insecta	<i>Agaristinae</i>	Forester Moths
266	5/26/2023 20:03	27.01038	92.86156	Insecta	<i>Erebinae</i>	
267	5/26/2023 19:46	27.01031	92.86169	Insecta	<i>Parotis</i>	
268	5/26/2023 20:00	27.01033	92.8617	Insecta	<i>Toccolosida rubriceps</i>	
269	5/26/2023 14:02	27.01591	92.86085	Insecta	<i>Limenitidinae</i>	Admirals and Allies
270	5/29/2023 2:11	26.93785	92.97964	Insecta	<i>Erebus macrops</i>	Common Owl Moth
271	5/29/2023 8:31	26.93785	92.97964	Insecta	<i>Atosia</i>	
272	5/30/2023 21:10	26.93785	92.97964	Insecta	<i>Episparis tortuosalis</i>	
273	6/3/2023 20:57	26.93781	92.97957	Insecta	<i>Pterophoridae</i>	Plume Moths
274	6/6/2023 13:38	26.93788	92.97965	Insecta	<i>Odontoptilum angulata</i>	Chestnut Banded Angle

275	6/6/2023 17:37	26.93788	92.97993	Insecta	<i>Lepidoptera</i>	Butterflies and Moths
276	6/6/2023 20:32	26.9378	92.97957	Insecta	<i>Tortricidae</i>	Tortricid Leafroller Moths
277	6/6/2023 20:57	26.93781	92.97957	Insecta	<i>Herpetogramma licarsisalis</i>	Grass Webworm Moth
278	6/14/2023 13:23	26.93784	92.97983	Insecta	<i>Mycalesis mineus</i>	Dark-branded Bushbrown
279	12/9/2022	27.10094	92.80743	Mammalia	<i>Elephas maximus indicus</i>	Indian Elephant
280	4/27/2023 18:26	27.00708	92.86247	Plantae	<i>Papilionanthe</i>	
281	5/22/2023 14:19	26.93785	92.97964	Plantae	<i>Rhynchosstylis retusa</i>	Foxtail Orchid
282	5/26/2023 11:06	27.01019	92.863	Plantae	<i>Marchantia</i>	
283	5/26/2023 12:03	27.01321	92.86687	Plantae	<i>Commelina</i>	dayflowers