(153)

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

सूचना का अधिकार
RIGHT TO INFORMATION

SPEED POST

No. WII/RTI/CPIO/2017-18 (Qtr-III)/26 **Dated 08.12.2017**

To,

MANNA MR IVAN
602, Pavilion Court-17,
Jaypee Greens Wishtown,
Noida Sector 128, Pin – 201 301

Sub.: Information sought under Right to Information Act, 2005- reg.

Ref.: (1) Your RTI Request dated 15/09/2017, received in this office on 18.10.2017.
(2) CPIO letter No. WII/RTI/CPIO/2017-18(Qtr.-III)/26 dated 27.10.2017.

Sir,

Please refer to your RTI Request cited above under RTI Act, 2005. Since the information was contained in 32 pages, you were requested to deposit an additional amount of Rs. 64/- as per Rule 5 of the RTI Act, 2005 vide reference (2) cited above.

In this context, the required amount of Rs. 64/- has been received by this Institute on 06.12.2017 in the form of a SBI Cheque no 537134 dated 02.12.2017. Hence, the required information is being enclosed herewith in the form of a report (32 pages), duly certified by CPIO.

If you are not satisfied with the aforesaid reply, you may file an appeal before the First Appellate Authority i.e. ***"Dr. V.B.Mathur, Director, Wildlife Institute of India, P.B.18, Chandrabani, Dehradun – 248 001, Ph. 0135-2646102, 2640910"*** within a period of one month.

Thanking you,

Yours faithfully,

08/12/17

(Dr. Anju Baroth)
CPIO & NO. RTI

11/12/17.

Encl: A report (32 pages)

Copy by post for information to – Public Information Officer, Corbett Tiger Reserve, Ramnagar P.O., Nainital District, Uttarakhand.

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(117+32) = 149

①

PHASE-IV SAMPLING IN CORBETT TIGER RESERVE, 2015 (APRIL-JUNE)

Principal investigators: Dr. Y.V. Jhala, Mr. Qamar Qureshi, Dr. Bivash Pandav, Shri. Samir Sinha, Dr. Saket Badola

Researchers: Shikha Bisht and Sudip Banerjee

Funding agency: National Tiger Conservation Authority, Corbett Forest Department

Wildlife Institute of India

ATTESTED

CPIO, Wild Life Institute of India, Dehradun

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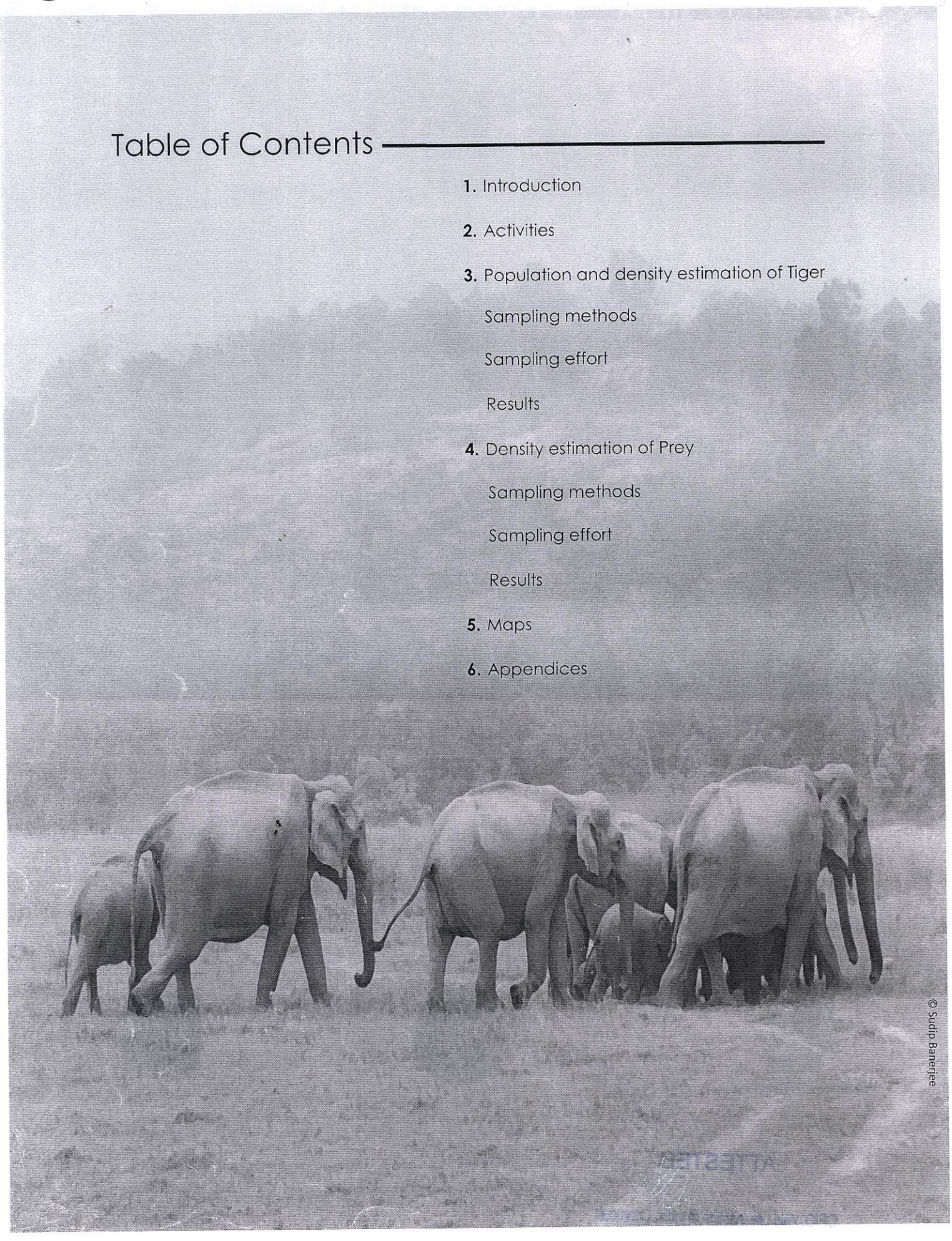

1. Introduction

Having an estimate of abundance of a species is very important for monitoring and evaluating any conservation program which is aimed at protecting that specific species. But mere evaluation of a population will not serve in its conservation. The country-wide tiger monitoring exercise has identified Corbett Tiger Reserve (CTR) as a high tiger density area (19 ±0.54 100km^2 in 2006-07, Jhala *et al.* 2011a). Tiger occupied area in the extended landscape (CTR and Lansdowne, Kashipur, Ramnagar, west Haldwani, north-west Nanital and lower Ranikhet) has increased from 1,524 km^2 to 2,287 km^2 from 2006-07 to 2010-11 (Jhala *et al.* 2011b). Estimated tiger numbers have also increased from 161-195 (Jhala *et al.* 2008) to 190-239 (Jhala *et al.* 2011b) and according to the recently concluded All India Tiger Monitoring, 169-261 (Jhala *et al.* 2015). But these studies based on snapshots of the population at discrete times do not allow to keep a pulse of the health of the population for the species long term persistence. Intensive monitoring of population is what will bring forth dynamics of a species in a given area and hence, help in developing meaningful and effective management practices. Under the current Tiger Monitoring Protocols population status of tiger is assessed once in every four years. Implementation of a continuous annual monitoring program is needed to aid in detecting trends in important high tiger density areas (source population) (Narain 2005, The Report of the Tiger Task Force, Joining the Dots, 2005). This led to addition of Phase IV under the Tiger Monitoring Protocols, involving intensive monitoring of the important source population of tigers for a given landscape. Therefore, to assess the tiger status in the globally important Terai Arc Landscape, source population for this landscape, CTR has been monitored under the purview of the Phase IV protocols since 2011-12.

In 2015-16, a total of 348 camera locations were sampled in the area identified based

on our reconnaissance survey. An effort of 9540 trap nights yielded 3200 photographs of 163 individual tiger. Closed population estimators selected *Mbh* as the best-fit model, thereby accounting for inherent heterogeneity in capture rates of individual tigers. Population estimate for the Tiger Reserve (# (S.E)) computed using the Mbh estimator was 171(5.47). Under the spatial likelihood model the density for the Tiger Reserve was 11.43(1.94) tigers/100km^2.

2. Activities

Training of ground staff to carry out and assist in executing the Phase IV protocols

Phase IV sampling exercise is a collaborative enterprise of forest department staff and researchers from academic institutions. As a part of this initiative WII has imparted training to ground level staff since its implementation in CTR since 2011-2012. During the training for the summer sampling session of 2015-16, rangers and beat guards from 11 ranges were efficiently trained in handling of different digital camera traps and their deployment (Fig 1 a&b). Training was also provided on line transect data collection followed by handling of equipment such as GPS, compass and range finders along with human disturbance and ungulate dung survey (Fig 2 a&b). Training included both theory lectures and field practical. Following the training a schedule was fixed to carry out the data collection exercise across the entire Tiger Reserve in a systematic manner and camera traps were also deployed subsequently by the forest staff and WII team.


Fig 1 a & b: Training of staff on field practical and theory of camera trap exercise

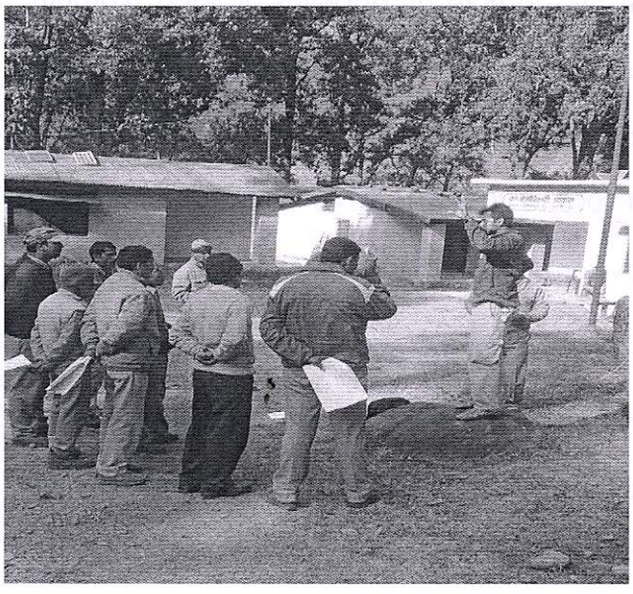


Fig 2 a & b: Training of staff on theory and data collection procedure of line transect sampling

3. Population and Density Estimation of Tiger

Sampling Method

The carnivore sign surveys in previous years along with ancillary information from Forest Department ground staff aided in identifying prospective camera trap locations to maximize capture rates. Camera trapping was conducted for a period of 30-45 days to ensure population closure. A handheld GPS unit was used to record their coordinates, which were then plotted in a GIS domain to reach a good trapping design with minimum "sampling holes". Each beat was taken as the unit of sampling where, depending on the size of the beat, 3-4 camera trap stations were identified and sampled. A total of 348 camera-trapping stations were identified in the entire tiger reserve (Fig. 4). These trapping stations were selected so as to maximise the capture probabilities of tigers (Karanth, 1995). The camera trapping was done in two blocks where Kalagarh, Jhirna, Dhela, Sarpdhuli, Bijrani, Dhikala, Mandal, Maidavan and Adnala Ranges of the Tiger Reserve were sampled in the first block from 22-4-2015 to 30-5-2015 while Palain and Sonanadi Ranges were sampled in the second block from 23-5-2015 to 23-6-2015.

We used Cuddeback Attack, Cuddeback Ambush, Reconyx IR and Panthera Digital cameras, which are passive infrared cameras, for the present camera trapping session. All tigers have unique stripe pattern and thus individual tigers can be identified based on their stripe patterns. Therefore, at each trap station two cameras were setup i.e. one on either side of the trail/road so as to photograph both the flanks of the tiger for future identification of the individual. Each camera station was given a unique identity (based on the name of the place or beat) so as to correctly note the date, time and location of the captures. Each camera was placed at a distance of 6-7 meters from the middle

of the trail (i.e. more than 12 meters distance between two cameras) to obtain good quality full frame pictures of tigers.

Tiger Identification through Extract Compare database

Every tiger captured was given a unique identification number (eg:- T-1, T-2) after examining the stripe pattern on the flanks, limbs and forequarters. For small populations new images can be compared by eye with existing ones to identify new individuals and record where and when each was photographed. But the photo-id catalogue grows with annual camera trapping and Corbett being a high tiger density area the effort required to search the entire catalogue for matches to each new image becomes excessive. Therefore, tiger individual identification was done using the software EXTRACTCOMPARE (Hiby et al. 2009) which is a database that provides automated photo-id for tiger individuals. This is done by fitting a 3D surface model to the tiger image and the program captures a pattern that is unaffected by the camera angle or the tiger's posture. The new pattern can be then compared with previous patterns stored in a library and display the most likely matches. The number of visual comparisons required is thus reduced substantially by calculating similarity scores between each new image and the images by which existing individuals are represented in the catalogue. Visual comparisons are then restricted to those individuals that obtained maximum scores during the process of batch comparison. Hence, the data is stored for each year and then compared between years. EXTRACTCOMPARE provides a comprehensive database for tiger individuals over the years and data can be fed directly into the software and the new photographs can be then compared using existing database of tiger individuals from previous years.

Sampling Effort

A total of 348 camera trap stations were deployed in the entire ~1400 Km2 of CTR in April-June 2015-16. Details of the effort are tabulated in Table 1.

Table 1: Details of camera trapping session in Corbett Tiger Reserve, April-June 2015-16

# of Camera traps	Trap Nights	# of photographs	Mt+1
348	9540	3200	163

Results

Tiger density was estimated under likelihood based spatial capture-recapture (SECR) framework using package secr (2.10.2) in R (3.2.1) platform. Population estimates were derived using closed population estimators in program MARK. The overall density for the Tiger Reserve is 11 tiger per 100 km^2 (Table 2) while the density of the National Park alone is 16 tigers per 100 km^2.

Table 2: Details of population estimates and density of tigers in Corbett Tiger Reserve April-June 2015-16

Total area (sq.km)	Area after masking (sq.km)	Tiger individuals photographed (Mt+1)	Density (S.E)/100 sq.km	Population Estimate (S.E) (Mbh model)
1257.2	1174.8	163	11.43 (1.94)	171 (5.47)

4. Density Estimation of Prey species

Sampling Method

Besides emphasizing on monitoring of tigers, Phase IV monitoring also mandates estimation of prey across the reserve twice a year. The protocol follows the robust and most preferred technique of line transect based DISTANCE sampling approach to estimate ungulate population in the reserve. Population estimation in this case is based on visual detection of animals in line transects of length 1 to 2 km. Under the monitoring protocol beat is the sampling unit where each beat has a minimum of one transect which can be increased to two or three depending on size and habitat array in the beat. Each transect was walked between 6:30 am to 8:30 am when the animals are most active. At the beginning of the walk transect bearing was recorded along with other variables such as terrain and habitat type. Subsequently with each cluster of prey animals encountered on transects, the following variables were recorded: (1) Species (2) Cluster size (3) Angular sighting distance (4) Animal bearing and (5) Walk bearing. Bearing is recorded using SUNNTO compass and distance is based on ocular estimate owing to unavailability of range finders in all the beats. Apart from these density estimating parameters, habitat and terrain was also recorded for each sighting (Appendix 2).

Sampling effort

A total of 68 line transects were sampled across 11 ranges in 68 beats in May-June 2015. Each transect was replicated thrice amounting to an effort of 390 km of total walk (Fig 3). Due to incomplete data collected from Amdanda and Gaujpani South beats, they were not used in the analysis

Results

Density was estimated using Program DISTANCE 7 (Buckland *et.al,* 1993, 2001; Thomas *et.al,* 2004). The best fit model was selected based on the Akaike Information Criteria (AIC). Using the selected model, estimates of group density and animal density were derived (Table 3).

Table 3: Density of Chital, Sambar, Wild Pig, Barking Deer and Langur for 68 transects (total replicates=204) walked (total of 390 km) using program DISTANCE 7.0 in Corbett Tiger Reserve 2015

Species	Observation (# of Clusters detected)	Best Fit Model	Chi.sq value	Effective strip width (SE)	Mean Group size (SE)	Detection probability (SE)	Group density per sq.km(SE)	Individual Density per sq.km (SE)
Chital	166	Hazard/Hermite	0.92	43.95(3.32)	14.64(0.9)	0.24(0.02)	4.84(0.6)	70.9(10.2)
Sambar	119	Uniform/Cosine	0.86	43.36(3.15)	2.84(0.1)	0.42(0.03)	3.52(0.4)	10.7(1.4)
Wild pig	46	Hazrad/Hermite	0.78	38.51(6.83)	7.9(1.1)	0.35(0.06)	1.53(0.3)	12.2(3.4)
Barking deer	69	Uniform/Cosine	0.65	47.30(3.6)	1.4(0.06)	0.59(0.04)	1.87(0.2)	2.8(0.4)
Langur	32	Uniform/Cosine	0.92	37.69(5.6)	15.43(1.8)	0.68(0.1)	1.08(0.2)	22.3(7.1)

Sampling for vegetation, ungulate pellet and human disturbance:

To quantify the habitat parameters and determine levels of human disturbance, sampling was done along the same line transects at every 400 meters. Dominant trees and shrub species along with grass and herbs were recorded. Ungulate abundance was also indexed by enumerating their fecal pellets. At every 400 m along the transect, an area of 2m x 20m perpendicular to the transect was sampled for quantifying ungulate pellets. Disturbance

parameters such as wood cutting and lopping and presence of human/domestic animal trails were also recorded in each of these plots. GPS locations of all these plots were recorded to spatially model these co-variates with ungulate density across the area.

5. Maps

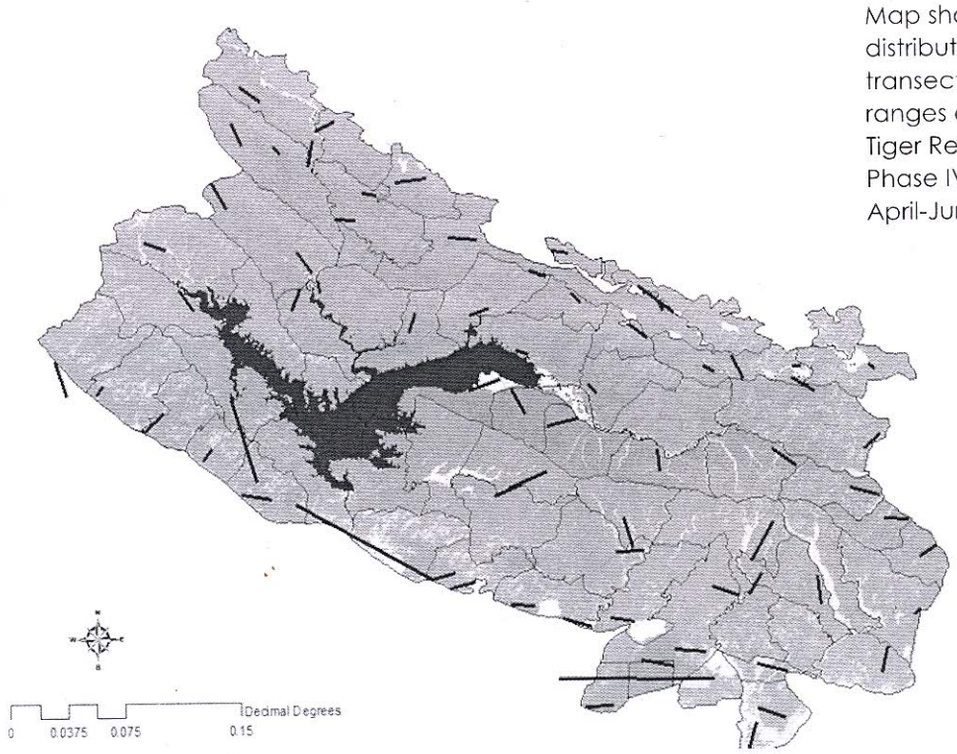

Figure 3
Map showing distribution of transects (n=68) in 11 ranges of Corbett Tiger Reserve during Phase IV sampling, April-June 2015-16

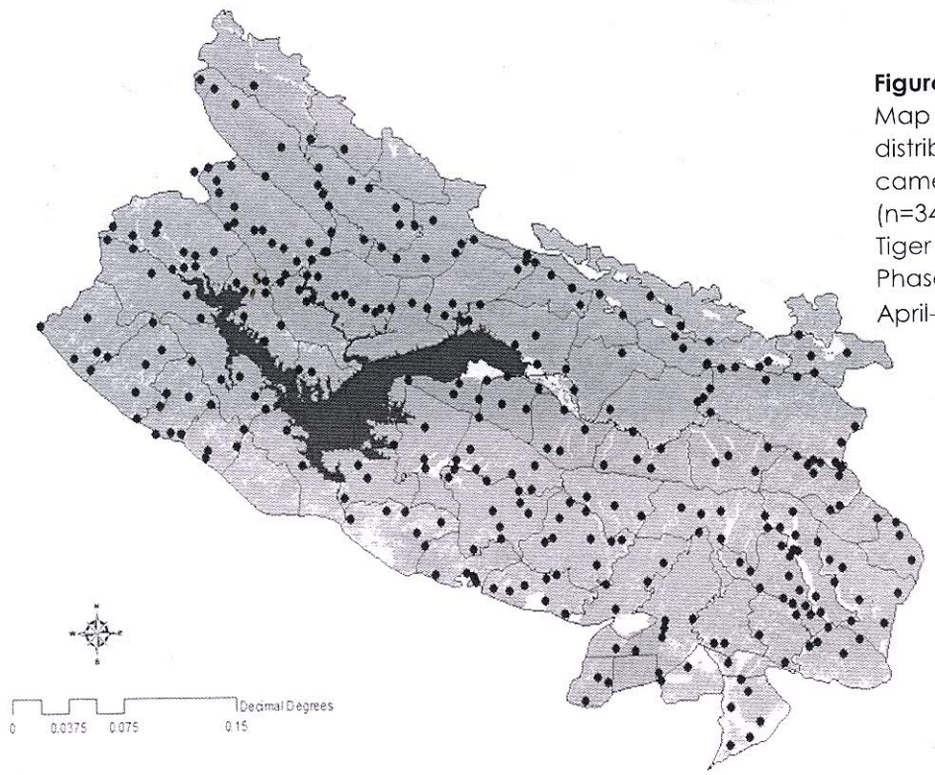

Figure 4
Map showing spatial distribution of camera traps (n=348) in Corbett Tiger Reserve during Phase IV sampling April-June 2015-16

6. Appendices

1. Ungulate encounter data sheet in Hindi

प्रपत्र

ट्रांजेक्ट लाईन पर वन्यजीवों एवं मवेषियों की गणना

संकलनकर्ता : ..... समय प्रारंभ..... समय अन्तः.....
ट्रांसेक्ट लाइन क्रमांक..... ट्रांसेक्ट पर वन प्रकारः..... ट्रांसेक्ट पर भौतिकी प्रकार...
लम्बाईः .....दिनांकः..... वनमण्डलः.....
रेंजः.....

बीटः.....मौसमः बादल/खुला/वर्षा **ट्रांजेक्ट प्रारंभका कोण.....**

प्रारंभ जी.पी.एस. अक्षांतरः ..... देषांतर : .....
अंत जी.पी.एस.: अक्षांतरः ..... देषांतर : .....

क्रं.	समय	प्रजाति	कुल संख्या (बच्चे एवं अन्य सभी)	बच्चे	वनों के प्रकार	भौतिकी के प्रकार	जानवर की दूरी (वैकल्पिक)	जानवर का कोण	आगे ट्रांजेक्ट लाईन काकोण	अक्षांतर जी.पी.एस	देषांतर जी.पी.एस
१											
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८											
९											
१०											

(14)

2: List of camera trap locations in Corbett Tiger Reserve April-June 2015-16

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
1	15kanala	29.383250	79.020833	27-04-2015	30-05-2015
2	50footi_PE	29.418083	78.956889	27-04-2015	30-05-2015
3	50footifireline	29.571056	78.835333	27-04-2015	30-05-2015
4	580	29.406083	78.971167	26-04-2015	30-05-2015
5	AmgadiRd	29.528056	79.082472	27-04-2015	30-05-2015
6	Amsot	29.464278	79.035000	29-04-2015	30-05-2015
7	Andheria	29.470000	78.976000	26-04-2015	30-05-2015
8	Babanala sot	29.465861	79.096139	29-04-2015	30-05-2015
9	babanalard	29.457639	79.090972	29-04-2015	30-05-2015
10	Bada Pathroba	29.435694	78.977167	27-04-2015	30-05-2015
11	Bada Sot	29.481861	78.815389	27-04-2015	30-05-2015
12	Bada panout far	29.500306	79.088278	28-04-2015	30-05-2015
13	badhai chaur	29.473056	79.061417	29-04-2015	30-05-2015
14	badi fireline	29.448056	79.056250	29-04-2015	30-05-2015
15	bagia sot	29.422000	79.016944	27-04-2015	30-05-2015
16	bajri rd	29.418972	78.943528	26-04-2015	30-05-2015
17	behra ghatta	29.399722	78.974028	27-04-2015	30-05-2015
18	bela nala	29.532417	78.815833	24-04-2015	30-05-2015
19	bhumakiya	29.549306	78.924417	27-04-2015	30-05-2015
20	bichhubhoji	29.578861	78.858611	27-04-2015	30-05-2015
21	boxgadi	29.572139	78.917444	27-04-2015	30-05-2015
22	budda pathar	29.458972	78.965750	26-04-2015	30-05-2015
23	bunkpani	29.503972	78.943917	27-04-2015	30-05-2015
24	champion rd	29.547722	78.956722	27-04-2015	30-05-2015
25	chinal	29.484278	79.133778	27-04-2015	30-05-2015
26	chirchoti	29.522250	78.832000	27-04-2015	30-05-2015
27	chripani rd	29.487444	79.000861	28-04-2015	30-05-2015
28	chirpani wh	29.498306	79.001778	28-04-2015	30-05-2015
29	chital rd	29.481222	79.079611	29-04-2015	30-05-2015
30	chuapani	29.564472	78.868444	27-04-2015	30-05-2015
31	chui sot	29.529361	78.770917	22-04-2015	30-05-2015
32	chunakhani	29.492167	79.132056	27-04-2015	30-05-2015
33	comp 15	29.487944	79.073861	29-04-2015	30-05-2015
34	dhanghari waterhole	29.525361	79.096361	27-04-2015	30-05-2015
35	dhara 50footi	29.459417	78.849889	25-04-2015	30-05-2015
36	Dhara sot batiya	29.485056	78.867083	26-04-2015	30-05-2015
37	dharaguleria	29.501722	78.861250	26-04-2015	30-05-2015
38	dhaudadevi	29.503972	78.943917	27-04-2015	30-05-2015

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
39	dhaura sot	29.523694	78.874944	24-04-2015	30-05-2015
40	garjia sot	29.430028	79.086000	29-04-2015	30-05-2015
41	gau rd	29.513083	78.879556	24-04-2015	30-05-2015
42	gaujpani sot	29.527972	78.890167	25-04-2015	30-05-2015
43	gethiya rao	29.588306	78.892750	27-04-2015	30-05-2015
44	ghilmoria	29.523472	79.038806	27-04-2015	30-05-2015
45	godama1	29.484750	78.927389	25-04-2015	30-05-2015
46	godama2	29.469056	78.931194	25-04-2015	30-05-2015
47	gorkha	29.537611	78.975528	27-04-2015	30-05-2015
48	gosadan	29.433786	79.101372	27-04-2015	30-05-2015
49	gujjar batiya_Phanto east	29.401861	78.931111	26-04-2015	30-05-2015
50	gujjar batiya_Pathroba east	29.408028	78.992194	27-04-2015	30-05-2015
51	guleria	29.492111	78.866389	26-04-2015	30-05-2015
52	haldukhera 1	29.436722	78.995833	27-04-2015	30-05-2015
53	hilltop	29.551806	78.816472	27-04-2015	30-05-2015
54	jalebi bend	29.605250	78.891944	27-04-2015	30-05-2015
55	jamun sot on rd_gauj	29.526944	78.850250	24-04-2015	30-05-2015
56	jamun sot rd_jam	29.500556	78.924417	25-04-2015	30-05-2015
57	jamunagwad rd	29.498083	78.961750	27-04-2015	30-05-2015
58	jhabar sot	29.444972	79.062361	29-04-2015	30-05-2015
59	jhirna atak	29.482833	78.896167	25-04-2015	30-05-2015
60	jhirna sot_jam	29.496778	78.906222	25-04-2015	30-05-2015
61	jhirnajali	29.506528	78.913056	25-04-2015	30-05-2015
62	jhirna sot_new	29.463944	78.904194	27-04-2015	30-05-2015
63	kamarpatta	29.561444	78.884861	27-04-2015	30-05-2015
64	kaniya	29.414333	79.095833	29-04-2015	30-05-2015
65	karvarghatti	29.525833	78.968917	27-04-2015	30-05-2015
66	kasurva	29.453917	79.041222	29-04-2015	30-05-2015
67	khinamalani	29.469611	79.027917	28-04-2015	30-05-2015
68	khinanaulibypass	29.573167	78.893056	27-04-2015	30-05-2015
69	kichar	29.448944	79.078250	29-04-2015	30-05-2015
70	km ki dhang	29.483583	78.948111	25-04-2015	30-05-2015
71	kothidunga	29.530972	78.958972	27-04-2015	30-05-2015
72	kothirao	29.440306	78.909194	25-04-2015	30-05-2015
73	khrishna nala	29.527667	78.816000	27-04-2015	30-05-2015
74	kua	29.501389	78.802583	24-04-2015	30-05-2015
75	machiakhal	29.457083	78.937417	25-04-2015	30-05-2015
76	magazine sot	29.497500	78.765750	22-04-2015	30-05-2015
77	malanighat	29.479222	78.848500	27-04-2015	30-05-2015
78	mandir	29.439667	79.081694	29-04-2015	30-05-2015

(16)

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
79	meera sot	29.510500	78.762167	22-04-2015	30-05-2015
80	mohanpani	29.509167	78.925472	25-04-2015	30-05-2015
81	mohanpani-bunkpani	29.483139	78.941444	25-04-2015	30-05-2015
82	murti sot	29.485667	78.901833	25-04-2015	30-05-2015
83	nagaroli	29.421956	79.079200	30-04-2015	30-05-2015
84	nagaroli batiya	29.419067	79.073742	30-04-2015	30-05-2015
85	nagin sot	29.506417	78.880278	25-04-2015	30-05-2015
86	nathusidh	29.498083	78.961750	25-04-2015	30-05-2015
87	nayajaub	29.489667	79.046417	29-04-2015	30-05-2015
88	neargate_dhikala	29.568000	78.853139	27-04-2015	30-05-2015
89	noongarh	29.495333	78.826556	27-04-2015	30-05-2015
90	paniagwad	29.443500	79.071111	29-04-2015	30-05-2015
91	pater sot	29.521611	78.777056	22-04-2015	30-05-2015
92	pathroba sot_up	29.431083	78.976417	27-04-2015	30-05-2015
93	phooltal	29.423319	79.106608	28-04-2015	30-05-2015
94	phulai sot	29.599583	78.877917	27-04-2015	30-05-2015
95	pipal sot rd	29.519250	78.857667	24-04-2015	30-05-2015
96	plot 5	29.361000	79.019972	27-04-2015	30-05-2015
97	pratap khatta	29.375389	79.039889	27-04-2015	30-05-2015
98	ranibag	29.532750	79.020833	27-04-2015	30-05-2015
99	rasiaroli	29.448361	78.896722	26-04-2015	30-05-2015
100	ratapani	29.499444	79.063433	29-04-2015	30-05-2015
101	riapani	29.450056	79.132278	30-04-2015	30-05-2015
102	ringoda nala	29.614000	78.842750	27-04-2015	30-05-2015
103	saajgadi	29.526667	79.073472	27-04-2015	30-05-2015
104	sagwaan khola rd	29.410083	79.057361	30-04-2015	30-05-2015
105	sain plot	29.399722	79.027639	27-04-2015	30-05-2015
106	sambar rd	29.581083	78.872167	27-04-2015	30-05-2015
107	shikari batiya	29.537694	79.047139	27-04-2015	30-05-2015
108	shikari kuan	29.404778	78.972667	26-04-2015	30-05-2015
109	sodakhal	29.538472	78.846833	24-04-2015	30-05-2015
110	sukha sot	29.502611	78.789639	27-04-2015	30-05-2015
111	sukha sot wh	29.502278	78.988806	28-04-2015	30-05-2015
112	sultan rd	29.490111	79.054694	29-04-2015	30-05-2015
113	tauliya	29.585028	78.911528	27-04-2015	30-05-2015
114	teenpani	29.470056	79.141833	27-04-2015	30-05-2015
115	telephone_phanto east	29.401917	78.940806	26-04-2015	30-05-2015
116	thanda batiya	29.541472	78.795500	24-04-2015	30-05-2015
117	toon rokhad sot	29.536972	78.907528	24-04-2015	30-05-2015
118	toon rokhad	29.514222	78.887583	24-04-2015	30-05-2015

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
119	toon sot	29.500111	78.885083	25-04-2015	30-05-2015
120	toota pakhan	29.579639	78.805611	27-04-2015	30-05-2015
121	transect_phanto west	29.388583	78.923000	26-04-2015	30-05-2015
122	waterhole1	29.476944	79.063528	29-04-2015	30-05-2015
123	waterhole2	29.475750	79.066778	29-04-2015	30-05-2015
124	wh3_dhikala	29.577028	78.839750	27-04-2015	30-05-2015
125	zeropoint	29.479139	79.055333	29-04-2015	30-05-2015
3_2	Amgadi sot	29.521639	79.077417	28-04-2015	30-05-2015
6_2	Arjun nala rd	29.531639	78.836889	24-04-2015	30-05-2015
13_2	bagia nala	29.409972	79.018806	27-04-2015	30-05-2015
17_2	bhalu sot	29.454306	78.872472	28-04-2015	30-05-2015
18_2	bhaluroli	29.421417	79.009472	27-04-2015	30-05-2015
26_2	chirchotifar	29.526750	78.835972	27-04-2015	30-05-2015
34_2	comp19	29.470528	79.087833	29-04-2015	30-05-2015
40_2	dhulva	29.528722	79.012389	27-04-2015	30-05-2015
53_2	haldukhera chowki	29.451750	79.010389	27-04-2015	30-05-2015
58_2	jamun sot_machan	29.455667	78.861361	27-04-2015	30-05-2015
61_2	jhirna1	29.461389	78.896944	26-04-2015	30-05-2015
64_2	kalushaheed	29.556611	78.852528	27-04-2015	30-05-2015
66_2	Kanaujia	29.494778	79.119694	27-04-2015	30-05-2015
70_2	kharagate	29.442389	78.943778	25-04-2015	30-05-2015
72_2	khinanauli sot	29.538250	78.898472	27-04-2015	30-05-2015
73_2	khrar sot	29.457278	78.882611	26-04-2015	30-05-2015
81_2	malani sot far	29.500444	79.015139	27-04-2015	30-05-2015
82_2	maldhang sot	29.560750	78.941333	27-04-2015	30-05-2015
83_2	maulya 1	29.470056	79.141833	27-04-2015	30-05-2015
84_2	maulya 2	29.541472	78.795500	27-04-2015	30-05-2015
94_2	paniagwad sot	29.437667	79.065083	29-04-2015	30-05-2015
97_2	pathroba sot_down	29.425833	78.974972	27-04-2015	30-05-2015
99_2	Phanto tiraha	29.398944	78.938444	26-04-2015	30-05-2015
104_2	plot7n8	29.366083	79.032778	27-04-2015	30-05-2015
105_2	pukkipulia	29.461472	79.060472	29-04-2015	30-05-2015
106_2	ramsingh	29.561111	78.910194	27-04-2015	30-05-2015
109_2	ratapani rd	29.485556	79.065222	29-04-2015	30-05-2015
111_2	ring rd	29.462556	78.848500	27-04-2015	30-05-2015
113_2	ringoda batiya	29.432389	79.123389	28-04-2015	30-05-2015
117_2	salbani	29.446250	79.107000	29-04-2015	30-05-2015
123_2	sultan sot	29.497417	79.044989	29-04-2015	30-05-2015
126	Waterhole 6	29.453000	79.067250	29-04-2015	30-05-2015
127	Comp 42 (PLOT NO.43)	29.392806	79.032111	27-04-2015	30-05-2015

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CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
128	Jamun Sot up	29.437667	79.065083	27-04-2015	30-05-2015
129	Khatpani (school batia, comp-7)	29.464139	78.822333	26-04-2015	30-05-2015
130	Kohli sot	29.489500	78.809833	24-04-2015	30-05-2015
131	New Point(semul tree tower)	29.464806	78.843833	27-04-2015	30-05-2015
132	18_Ka_Nala	29.383250	79.020833	27-04-2015	30-05-2015
133	Bada Panout Near	29.502278	79.094778	28-04-2015	30-05-2015
134	Haathikhal Far	29.520111	79.094194	28-04-2015	30-05-2015
135	Kasurva Sot	29.471417	79.041250	27-04-2015	30-05-2015
136	Nakatal	29.426222	79.039778	28-04-2015	30-05-2015
ML01	Bhotiya Padav	29.592400	79.100450	26-04-2015	21-05-2015
ML02	Banghat Batiya	29.591060	79.076750	26-04-2015	21-05-2015
ML03	Dugalgad Batiya	29.575370	79.082300	26-04-2015	21-05-2015
ML04	Near banghat	29.603540	79.068780	26-04-2015	21-05-2015
ML05	Nera Mohan Range office	29.549420	79.105340	26-04-2015	21-05-2015
ML06	Bhootgadi Sot	29.540110	79.096320	26-04-2015	21-05-2015
ML07	Gairal-Dumunda Batiya	29.572170	79.009120	26-04-2015	21-05-2015
ML08	Dabriya Chud	29.567150	79.004380	26-04-2015	21-05-2015
ML09	Sangudi sot	29.558270	79.009160	26-04-2015	21-05-2015
ML10	Dhangaddi Sot	29.532120	79.066420	26-04-2015	21-05-2015
ML11	Amgadi sot	29.529490	79.077390	26-04-2015	21-05-2015
ML12	Dhangaddi Sagun Chud	29.528410	79.092550	26-04-2015	21-05-2015
ML13	Bechalni Antipoaching Chowki	29.580680	79.078990	26-04-2015	21-05-2015
ML14	Nigam Road	29.584020	79.016620	26-04-2015	21-05-2015
ML15	Jamun Tiraha	29.578800	79.066990	26-04-2015	21-05-2015
ML16	Manki Rao	29.576990	79.045960	26-04-2015	21-05-2015
ML17	Dadni Chud	29.584500	79.026490	26-04-2015	21-05-2015
ML18	Fireline Batiya	29.587310	79.007160	26-04-2015	21-05-2015
ML19	Nagro Sot	29.596320	78.991260	26-04-2015	21-05-2015
ML20	Kalakhan Road	29.585080	79.042110	27-04-2015	21-05-2015
ML21	Jamun Road	29.587710	79.047870	27-04-2015	21-05-2015
ML22	Fireline Batiya	29.586370	79.006880	01-05-2015	21-05-2015
MN01	Ghugli Chud	29.603780	78.985700	27-04-2015	22-05-2015
MN02	Khamlta Sot	29.600620	79.008880	27-04-2015	21-05-2015
MN03	Tadiya Mandir	29.629360	78.935070	27-04-2015	22-05-2015
MN04	Tadiya Pan Batiya	29.616570	78.950860	27-04-2015	22-05-2015
MN05	Sidh Ke Dhar	29.649360	78.885280	27-04-2015	22-05-2015
MN06	Kunda Road	29.632720	78.916870	27-04-2015	22-05-2015
MN07	Bans Road Koligaon	29.640470	78.902730	27-04-2015	22-05-2015
MN08	Magnukhal waterhole	29.648370	78.891560	27-04-2015	22-05-2015
MN09	Banja Devi, Magnu Road	29.652990	78.886310	27-04-2015	22-05-2015

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
MN10	Choduyun	29.627630	78.969220	27-04-2015	22-05-2015
MN11	Bhukwa	29.620040	78.981670	27-04-2015	22-05-2015
MN12	Fireline	29.609560	78.989330	27-04-2015	22-05-2015
MN13	Next to Simal padav	29.623550	78.854620	29-04-2015	23-05-2015
MN14	Bailanala	29.614400	78.846610	29-04-2015	23-05-2015
MN15	Tigere Sot	29.617180	78.830380	29-04-2015	23-05-2015
MN16	Fireline	29.621940	78.818350	29-04-2015	23-05-2015
MN17	Near Gojda Chowki	29.624180	78.836060	29-04-2015	23-05-2015
MN18	Putinkhal	29.621670	78.915500	09-05-2015	22-05-2015
MN19	Kilani Sot	29.611860	78.918830	09-05-2015	22-05-2015
A01	Near Sidh Mandir Batiya	29.662570	78.850850	28-04-2015	23-05-2015
A02	Noninala Sot	29.673900	78.823300	28-04-2015	23-05-2015
A03	Adnala Waterhole	29.670870	78.811020	28-04-2015	23-05-2015
A04	Adnala Watchtower	29.671850	78.800570	28-04-2015	23-05-2015
A05	MundiyaPani	29.693790	78.780380	28-04-2015	23-05-2015
A06	Fireline	29.698150	78.769000	28-04-2015	23-05-2015
A07	Bodli Sot	29.717190	78.764540	28-04-2015	23-05-2015
A08	Fireline	29.705840	78.747170	28-04-2015	23-05-2015
A09	Malai Khan	29.682160	78.798030	28-04-2015	23-05-2015
A10	Bhitriadnala Track 1	29.660600	78.841870	29-04-2015	23-05-2015
A11	Bhitriadnala Track 2	29.654500	78.837720	29-04-2015	23-05-2015
A12	Bhitriadnala Track 3	29.651590	78.818210	29-04-2015	23-05-2015
A13	Bhitriadnala Track 4	29.651910	78.798630	29-04-2015	23-05-2015
A14	Bhitriadnala Track 5	29.658570	78.788310	29-04-2015	23-05-2015
A15	Bhitriadnala Track 6	29.663360	78.776790	29-04-2015	23-05-2015
A16	Kakdidhang	29.642600	78.738430	29-04-2015	23-05-2015
A17	Kakdidhang dam	29.628430	78.742060	29-04-2015	23-05-2015
A18	Bailanala	29.641480	78.745640	29-04-2015	23-05-2015
A19	Bailanala 4-6 ka Milan	29.622730	78.921890	29-04-2015	23-05-2015
A20	Bailanala bad ka Ped	29.630290	78.757390	29-04-2015	23-05-2015
A21	Fireline	29.625080	78.808590	29-04-2015	23-05-2015
A22	Citanala Sot	29.622330	78.794150	29-04-2015	23-05-2015
A23	Bailanala Dhar	29.619760	78.783960	29-04-2015	23-05-2015
A24	Bailanala sot 2	29.622470	78.777340	29-04-2015	23-05-2015
A25	bailanala 3	29.625680	78.767910	29-04-2015	23-05-2015
A26	Malani Sot	29.630690	78.763630	29-04-2015	23-05-2015
A27	Bailanala sot	29.622470	78.787200	29-04-2015	23-05-2015
A28	Garhwal Tiraha	29.651850	78.741460	30-04-2015	23-05-2015
A29	Lalbhag	29.656130	78.752120	30-04-2015	23-05-2015
A30	Sanan Sot	29.668190	78.755230	30-04-2015	23-05-2015

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CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
A31	Bitariya adnala Road	29.683500	78.753400	30-04-2015	23-05-2015
A32	Filangi Chud	29.690580	78.749210	30-04-2015	23-05-2015
A33	Batanbasha Gate	29.696190	78.746190	30-04-2015	23-05-2015
P01	Mandalti Sot	29.658990	78.723370	23-05-2015	20-06-2015
P02	Chokham-Mandalti batiya-2	29.665050	78.717340	23-05-2015	20-06-2015
P03	Chokham-Mandalti batiya-3	29.669370	78.709480	23-05-2015	20-06-2015
P04	Mandalti-Haldupadav batiya	29.650550	78.731910	23-05-2015	20-06-2015
P05	Lalbhag	29.656300	78.749880	24-05-2015	20-06-2015
P06	Sindhu Sot	29.661610	78.740520	24-05-2015	20-06-2015
P07	Lalbhag-Kandikhal Van Motor Marg 1	29.659040	78.735540	24-05-2015	20-06-2015
P08	Lalbhag-Kandikhal Van Motor Marg 2	29.653320	78.732820	24-05-2015	20-06-2015
P09	Bailanala 5 Batiya	29.645060	78.733180	24-05-2015	20-06-2015
P10	C2-3 Ka Milan	29.633630	78.731590	24-05-2015	18-06-2015
P11	Kandakhal Chachapani Batiya	29.631510	78.737320	24-05-2015	18-06-2015
P12	Kandikhal to C7 Fireline 1	29.620150	78.714820	25-05-2015	19-06-2015
P13	Kandikhal to C7 Fireline 2	29.613120	78.720690	25-05-2015	19-06-2015
P14	Kandikhal to C7 Fireline 3	29.632900	78.711330	25-05-2015	19-06-2015
P15	Kandikhal Watch Tower	29.639570	78.709010	27-05-2015	18-06-2015
P16	Amsoti Batiya	29.633650	78.717700	27-05-2015	18-06-2015
P17	Haldupadav - Kandikhal Fireline	29.638620	78.719920	25-05-2015	18-06-2015
P18	Kandikhal Fireline 2	29.650940	78.702560	25-05-2015	19-06-2015
P19	Kansoor Gujjar Dera	29.718710	78.721190	25-05-2015	18-06-2015
P20	Khansoor Road 1	29.732910	78.701880	25-05-2015	18-06-2015
P21	Khansoor Road 2	29.744000	78.691730	25-05-2015	18-06-2015
P22	Khansoor Road-3	29.753230	78.678840	25-05-2015	18-06-2015
P23	Basai Khan Khansoor	29.754760	78.663430	25-05-2015	18-06-2015
P24	Chokham DandaPani Track 1	29.708830	78.676640	26-05-2015	21-06-2015
P25	Chokham DandaPani Track 2	29.707140	78.688470	26-05-2015	21-06-2015
P26	Chokham DandaPani Track 3	29.705000	78.694310	26-05-2015	21-06-2015
P27	Chokham DandaPani Track 4	29.702220	78.706110	26-05-2015	21-06-2015
P28	Chokham Haldupadav Track 1	29.704190	78.675490	26-05-2015	20-06-2015
P29	Chokham Haldupadav Track 2	29.692000	78.678960	26-05-2015	20-06-2015
P30	Chokham Haldupadav Track 3	29.682050	78.693020	26-05-2015	20-06-2015
P31	Chokham Haldupadav Track 4	29.674700	78.700720	26-05-2015	20-06-2015
P32	Bharat Pani	29.755860	78.677780	26-05-2015	19-06-2015
P33	Talab pakka	29.739190	78.704830	26-05-2015	18-06-2015
P34	Khansoor haldupadav Batiya	29.709650	78.736480	27-05-2015	19-06-2015
P35	Waterhole Kugadda	29.723690	78.743110	27-05-2015	19-06-2015

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
P36	Kugadda Chowki	29.759570	78.709570	27-05-2015	19-06-2015
P37	Khansoor	29.696140	78.738890	27-05-2015	19-06-2015
P38	Haldupadav-Kandikhal Van Motor Narg	29.644650	78.726740	27-05-2015	19-06-2015
S1	Sonanadi Laldarwaja	29.672400	78.609190	27-05-2015	19-06-2015
S2	Pathri Sot	29.669140	78.619280	27-05-2015	19-06-2015
S3	Sonanadi Batiya	29.660260	78.620950	27-05-2015	19-06-2015
S4	Antipoaching Chowki	29.663860	78.612440	27-05-2015	19-06-2015
S5	Tiger Spray Point	29.654000	78.636210	27-05-2015	19-06-2015
S6	Andheri Sot	29.646320	78.645450	27-05-2015	19-06-2015
S7	Gadatu Sot	29.641710	78.647710	27-05-2015	19-06-2015
S8	gater Sot	29.653580	78.662280	28-05-2015	19-06-2015
S9	Sua Sot	29.655530	78.675560	28-05-2015	19-06-2015
S10	Van Motor Marg	29.648500	78.673860	28-05-2015	19-06-2015
S11	Jamun Sot	29.641060	78.676440	28-05-2015	19-06-2015
S12	Van Motor Marg	29.646610	78.678810	28-05-2015	19-06-2015
S13	Kharara Baheda Batiya	29.665310	78.627720	27-05-2015	19-06-2015
S14	Kaluwali Batiya	29.621490	78.693970	28-05-2015	23-06-2015
S15	Kandikhal Batiya	29.634120	78.696640	28-05-2015	23-06-2015
S16	Beri Chuad	29.638430	78.691230	28-05-2015	06-06-2015
S17	Baheda Sot	29.628480	78.661410	28-05-2015	19-06-2015
S18	Kaniya Sot	29.656640	78.656030	28-05-2015	19-06-2015
S19	Baheda Khara Batiya	29.668190	78.638280	28-05-2015	19-06-2015
S20	Amsoti	29.673390	78.638890	28-05-2015	19-06-2015
S21	Van Motor Marg	29.647720	78.656530	28-05-2015	19-06-2015
S22	Chapda Sot	29.595020	78.604190	29-05-2015	19-06-2015
S23	Chapda Fireline	29.587450	78.592610	29-05-2015	19-06-2015
S24	Gujjar Sot	29.613360	78.558840	29-05-2015	20-06-2015
S25	Pakhro	29.617620	78.591260	29-05-2015	20-06-2015
S26	Pankhro Gujjare Sot Batiya	29.601100	78.577330	29-05-2015	20-06-2015
S27	Pankhro Fireline	29.593860	78.581490	29-05-2015	20-06-2015
S28	Morghati bangla Batiya	29.549420	78.652710	01-06-2015	21-06-2015
S29	Puliya K Pass	29.550420	78.645290	31-05-2015	21-06-2015
S30	surajgadi sot	29.617530	78.667180	28-05-2015	24-06-2015
S32	Kalusaeed Dargah	29.571170	78.658140	31-05-2015	21-06-2015
S33	Hathikhadda bad k Pass	29.571250	78.658150	31-05-2015	21-06-2015
S34	Hathikhadda	29.597860	78.657110	31-05-2015	21-06-2015
S35	KoilaDhar	29.594280	78.649690	31-05-2015	21-06-2015
S36	Mogadi	29.558430	78.623230	31-05-2015	21-06-2015
S37	Mogadi Sot	29.573320	78.643710	31-05-2015	21-06-2015

CameraID	Trap Location	Latitude	Longitude	Deployment date	Removal date
S39	Kirawali 50 ft.	29.538300	78.673180	01-06-2015	21-06-2015
S40	Khiaragad Hattikhadda	29.551850	78.694500	01-06-2015	22-06-2015
S41	Khiaragad 14	29.541410	78.690390	01-06-2015	22-06-2015
S42	kalu Sot	29.547940	78.661690	01-06-2015	22-06-2015
S43	Kangda Ghati	29.565920	78.670200	01-06-2015	22-06-2015
S44	Motasal	29.580110	78.690360	31-05-2015	22-06-2015
S45	Dholkhand Gujjar Dera Road	29.569330	78.620800	31-05-2015	22-06-2015
S46	Dhulkhand Amrud Ka Ped	29.590220	78.630140	31-05-2015	22-06-2015
S47	BandarKuti	29.597090	78.636440	31-05-2015	22-06-2015
S48	Gulariya	29.576010	78.621960	31-05-2015	22-06-2015
S49	Gulariya Fireline	29.573760	78.612790	31-05-2015	22-06-2015
S50	Dhualkhand Goral Ridge	29.583660	78.626040	31-05-2015	22-06-2015
S51	Nalkatta Fireline	29.519170	78.713330	04-06-2015	23-06-2015
S52	Shernala	29.512280	78.751990	04-06-2015	23-06-2015
S53	Neem Sot	29.550890	78.723830	04-06-2015	23-06-2015
S54	Nalkatta 50 Ft	29.518060	78.707990	04-06-2015	23-06-2015
S55	Hathi Sot	29.507500	78.731090	04-06-2015	23-06-2015
S56	Shishamkhatta	29.586330	78.732220	01-06-2015	23-06-2015
S57	Kulangi Sot	29.582280	78.692470	31-05-2015	23-06-2015
S58	Velamwali Sot	29.563390	78.709500	31-05-2015	23-06-2015
S59	Chippalghati	29.603830	78.709970	31-05-2015	23-06-2015
S60	Dindawali	29.570860	78.703110	31-05-2015	23-06-2015
S64	Ghodawali Sot	29.594250	78.679190	31-05-2015	24-06-2015
S65	Koila Sot	29.575940	78.630730	31-05-2015	21-06-2015

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

SWS-1 SWS-2 SWS-3L SWS-3R SWS-4L

SWS-4R SWS-5L SWS-5R SWS-6 SWS-7

SWS-8L SWS-8R SWS-9 SWS-10L SWS-10R

SWS-11L SWS-11R SWS-12L SWS-12R SWS-13L

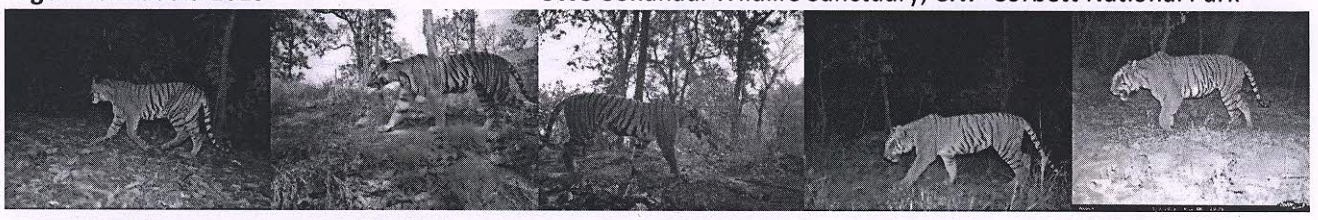
SWS-13R SWS-14L SWS-14R SWS-15L SWS-15R

SWS-16L SWS-16R SWS-17L SWS-17R SWS-18L

SWS-18R SWS-19L SWS-19R SWS-20L SWS-20R

(24)

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park



SWS-21 SWS-22L SWS-22R SWS-23 SWS-24L

SWS-24R SWS-25L SWS-25R SWS-26 SWS-27L

SWS-27R SWS-28L SWS-28R SWS-29 SWS-30L

SWS-30R SWS-31L SWS-31R SWS-32L SWS-32R

SWS-33L SWS-33R SWS-34L SWS-34R SWS-35L

SWS-35R SWS-36 SWS-37L SWS-37R SWS-38L

SWS-38R SWS-39L SWS-39R SWS-40L SWS-40R

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

SWS-41L SWS-41R SWS-42L SWS-42R SWS-43L

SWS-43R SWS-44L SWS-44R SWS-45L SWS-45R

SWS-46 SWS-47L SWS-47R SWS-48L SWS-48R

SWS-49L SWS-49R SWS-50L SWS-50R SWS-51L

SWS-51R SWS-52L SWS-52R SWS-53L SWS-52R

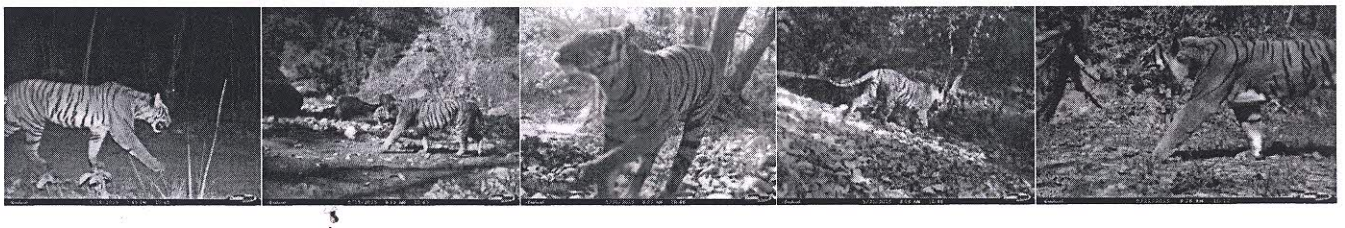
Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-19R CNP-20L CNP-20R CNP-21L CNP-21R

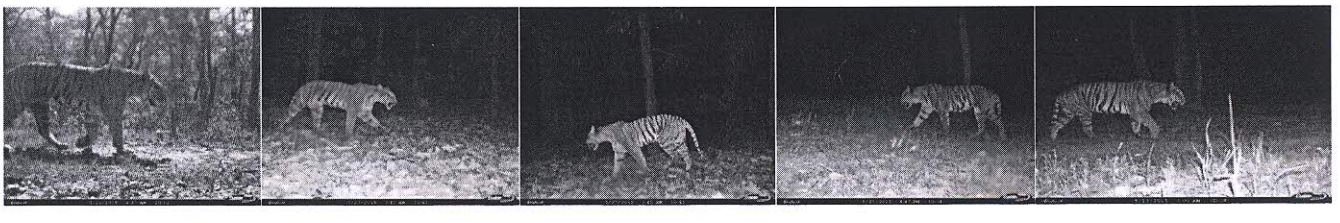
CNP-22R CNP-22L CNP-23L CNP-23R CNP-24L

CNP-24R CNP-25L CNP-25R CNP-26L CNP-26R

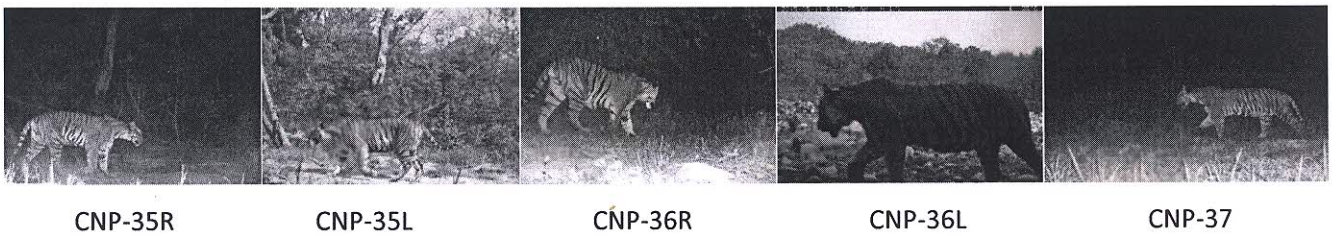
CNP-27R CNP-27L CNP-28L CNP-28R CNP-29



CNP-30R CNP-30L CNP-31L CNP-31R CNP-32L



CNP-32R CNP-33R CNP-33L CNP-34L CNP-34R

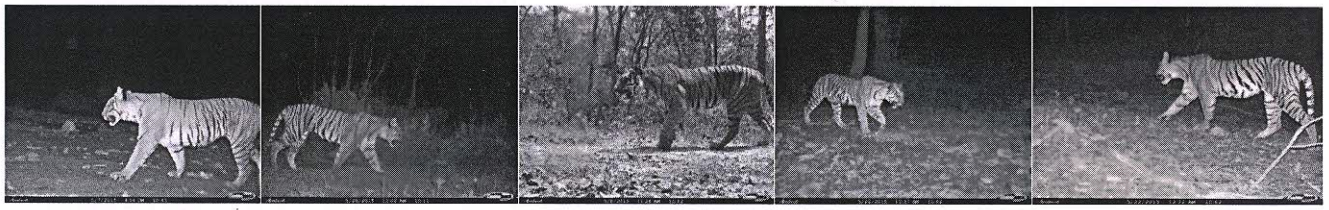


CNP-35R CNP-35L CNP-36R CNP-36L CNP-37

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-38L CNP-38R CNP-39L CNP-39R CNP-40L

CNP-40R CNP-41L CNP-41R CNP-42R CNP-42L



CNP-43L CNP-43R CNP-44L CNP-44R CNP-45L

CNP-45R CNP-46R CNP-46L CNP-47L CNP-47R

CNP-48L CNP-48R CNP-49L CNP-49R CNP-50L

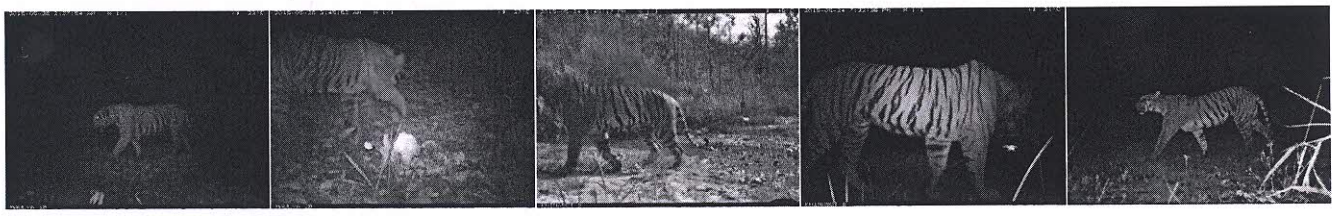
CNP-50R CNP-51L CNP-51R CNP-52R CNP-52L

CNP-53 CNP-54R CNP-54L CNP-55L CNP-55R

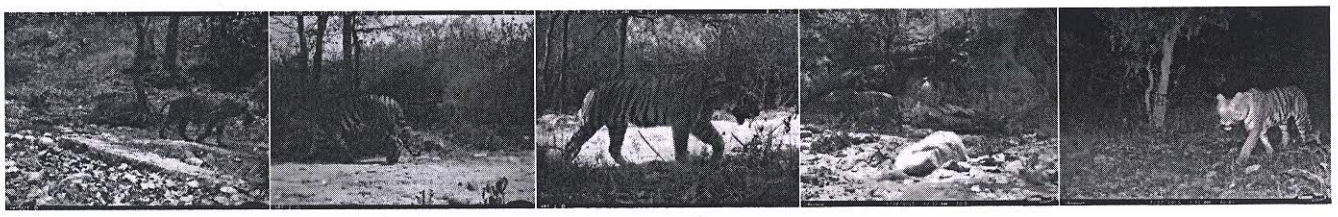
Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-56L CNP-56R CNP-57L CNP-57R CNP-58L

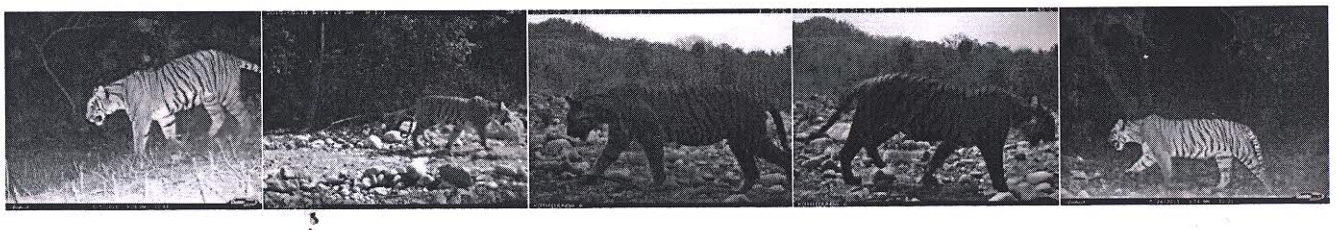
CNP-58R CNP-59L CNP-59R CNP-60R CNP-60L



CNP-61L CNP-61R CNP-62L CNP-62R CNP-63L



CNP-63R CNP-64L CNP-64R CNP-65 CNP-66



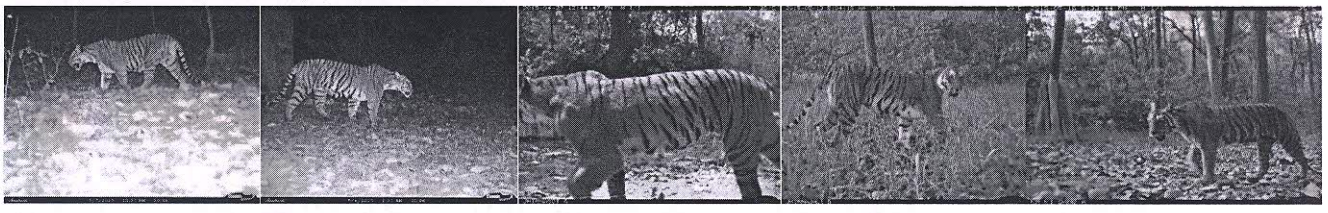
CNP-67L CNP-67R CNP-68L CNP-68R CNP-69L

CNP-69R CNP-70L CNP-70R CNP-71R CNP-71L

CNP-72L CNP-72R CNP-73L CNP-73R CNP-74L

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-74R CNP-75L CNP-75R CNP-76R CNP-76L



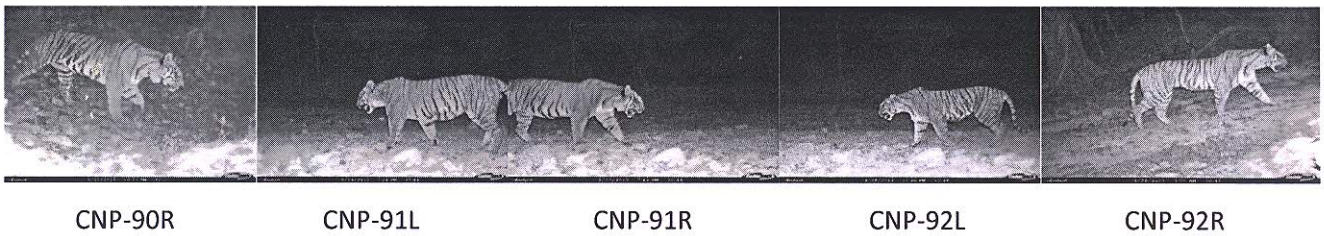
CNP-77L CNP-77R CNP-78L CNP-78R CNP-79L

CNP-79R CNP-80 CNP-81R CNP-81L CNP-82L

CNP-82R CNP-83R CNP-83L CNP-84R CNP-84L

CNP-85 CNP-86R CNP-86L CNP-87R CNP-87L

CNP-88R CNP-88L CNP-89L CNP-89R CNP-90L



CNP-90R CNP-91L CNP-91R CNP-92L CNP-92R

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-93R CNP-93L CNP-94L CNP-94R CNP-95L

CNP-95R CNP-96R CNP-96L CNP-97L CNP-97R

CNP-98 CNP-99L CNP-99R CNP-100R CNP-100L

CNP-101L CNP-101R CNP-102R CNP-102L CNP-103L

CNP-103R CNP-104R CNP-104L CNP-105R CNP-105L

CNP-106L CNP-106R CNP-107L CNP-107R CNP-108L

Tiger Individuals-2015 **SWS**-Sonanadi Wildlife Sanctuary, **CNP**-Corbett National Park

CNP-108R CNP-109L CNP-109R CNP-110L CNP-110R

CNP-111 CNP-112L CNP-112R CNP-113L CNP-113R

CNP-114R CNP-114L CNP-115L CNP-115R CNP-116L

CNP-116R CNP-117L CNP-117R CNP-118R CNP-118L

CNP-119R CNP-119L