Summary Description of Tiger and Leopard Image Data in the ExtractCompare Database

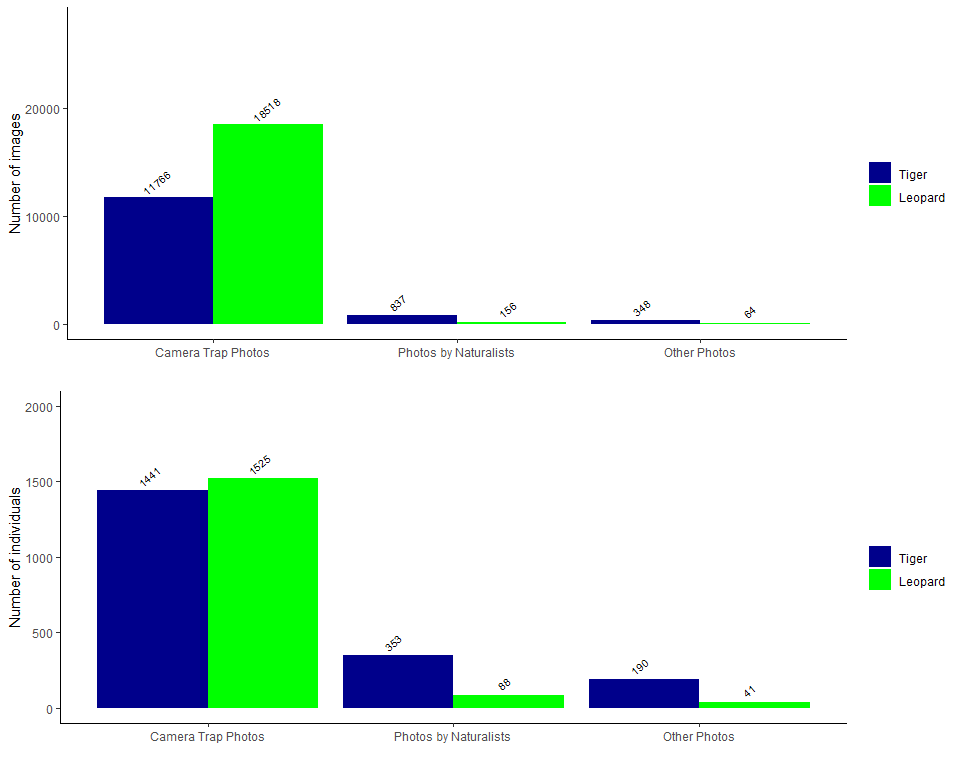
Chandan Kumar Pandey

## This report summarizes the image data of tigers and leopards in the ExtractCompare database of CWS.

### 1. Total Number of images of tigers and leopards

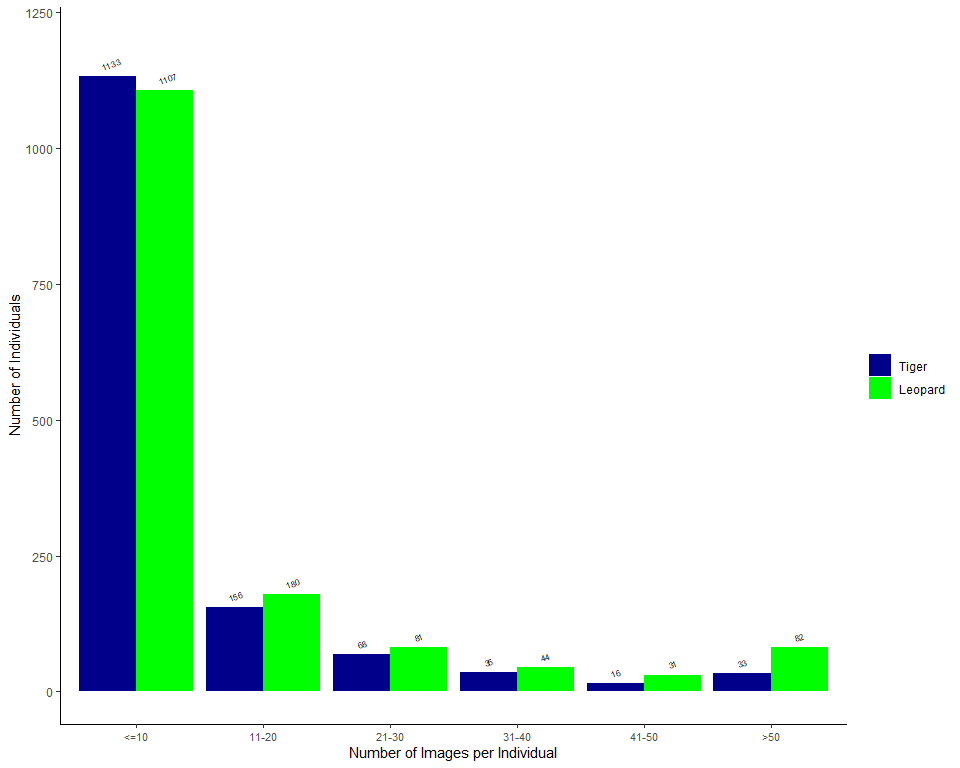
The EC database has a total of 43781 images belonging to 3367 individual tigers and leopards obtained largely through camera trap surveys from 12 Wildlife Reserves and opportunistic collection from a larger network of forested areas neighboring these camera trap “sites”. The opportunistic collection included images of dead tigers, seized pelts, photographs contributed by naturalists and others. Camera trap images contribute to nearly 93% of 25,037 tiger images and 99% of 18,739 leopard images. These images belong to a total of 1984 individual tigers and 1654 individual leopards. Camera trap surveys contribute to nearly 73% and 92% of individual tigers and leopards respectively.

### 2. Number of images per individual tiger and leopard



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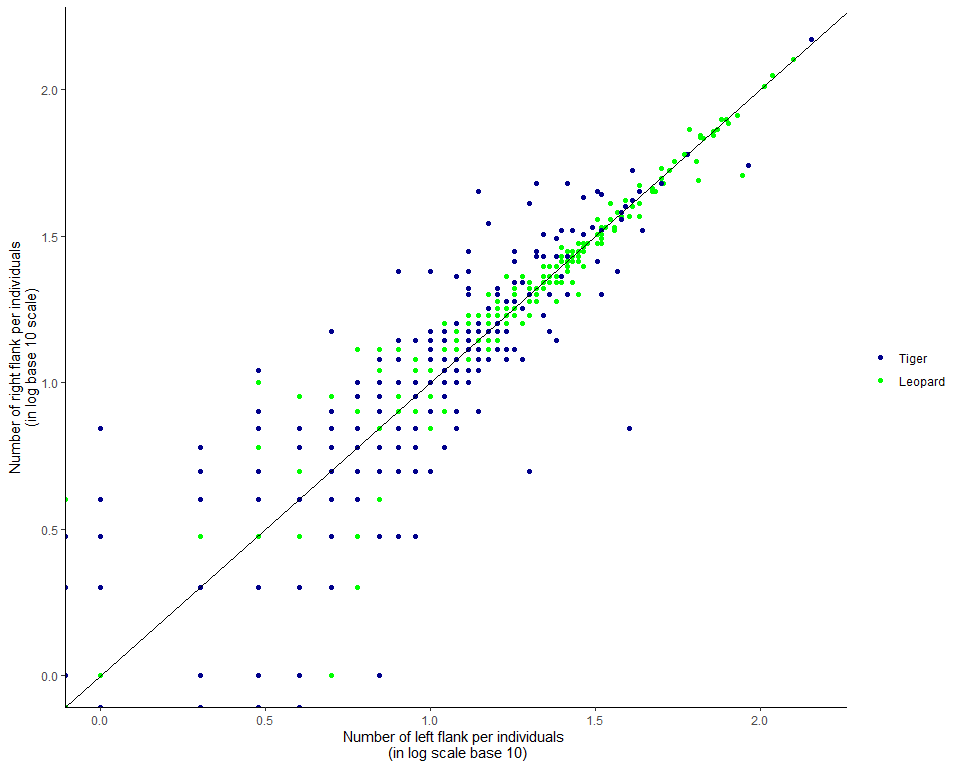
It is clear that **99%** leopards and **91%** Tigers images are from camera trap. Therefore we will only be using the image that were capture using camera traps.



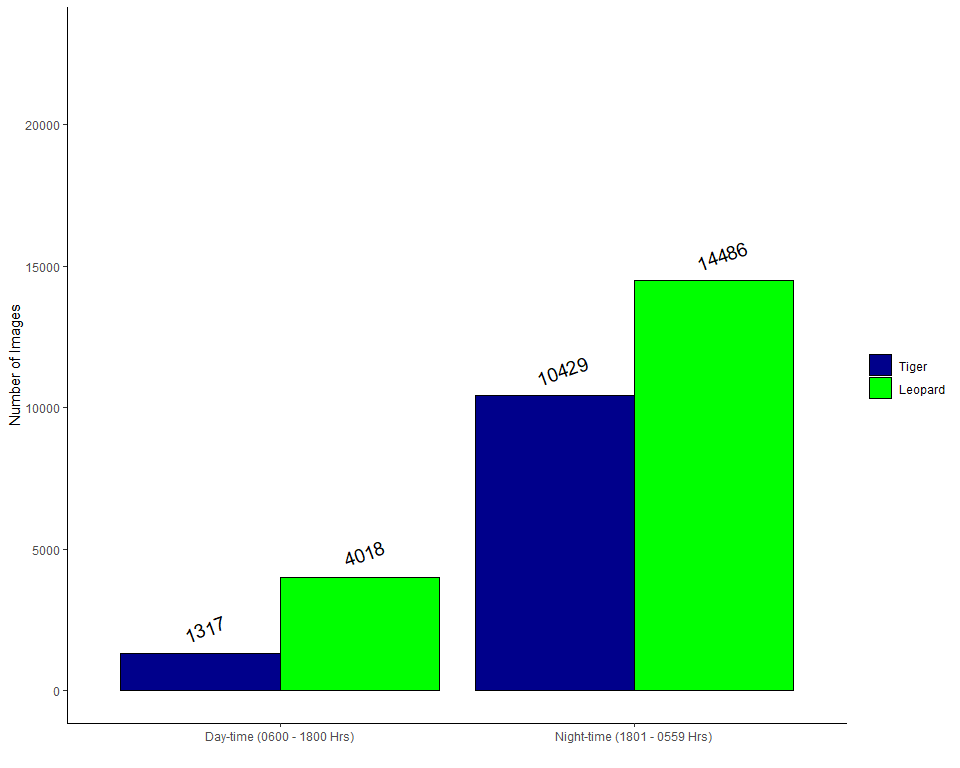
Nearly 65% and 73% of the camera-trapped individual tigers and individual leopards have less than or equal to 10 images per individual, while only 7% and 5% of individual tigers and leopards have more than 50 images per individual.

### 3. Number of camera trap images on different flanks

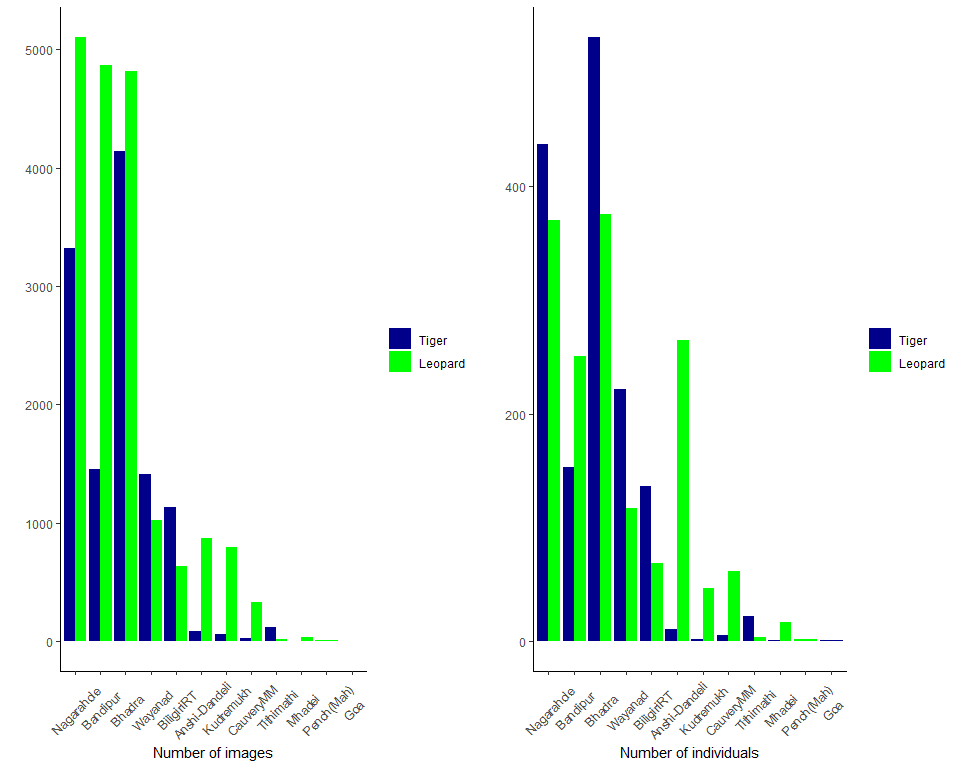
The number of right and left flank images per individual tiger and leopard are unequal, although nearly 90% of the individuals have almost equal number of right and left flank images.



### 4.Day and Night-time images

 Nearly 89% and 78% of the camera trap images of tigers and leopards are taken during night time, between 1800 and 0559 hrs.

### 5. Distribution of Camera Trapped Images and Individuals among different sites



Tiger images

|  |  |  |  |
| --- | --- | --- | --- |
| Camera trapsites | Speceis | number of images | number of individuals |
| Bhadra | Tiger | 4141 | 531 |
| Nagarahole | Tiger | 3318 | 437 |
| Bandipur | Tiger | 1452 | 153 |
| Wayanad | Tiger | 1412 | 222 |
| BiligiriRT | Tiger | 1132 | 136 |
| Tithimathi | Tiger | 116 | 22 |
| Anshi-Dandeli | Tiger | 87 | 11 |
| Kudremukh | Tiger | 56 | 2 |
| CauveryMM | Tiger | 28 | 5 |
| Mhadei | Tiger | 2 | 1 |
| Goa | Tiger | 2 | 1 |

Leopard images

|  |  |  |  |
| --- | --- | --- | --- |
| Camera trapsites | Speceis | number of images | number of individuals |
| Nagarahole | Leopard | 5103 | 370 |
| Bandipur | Leopard | 4864 | 251 |
| Bhadra | Leopard | 4818 | 375 |
| Wayanad | Leopard | 1024 | 117 |
| Anshi-Dandeli | Leopard | 872 | 265 |
| Kudremukh | Leopard | 793 | 47 |
| BiligiriRT | Leopard | 638 | 69 |
| CauveryMM | Leopard | 332 | 62 |
| Mhadei | Leopard | 36 | 17 |
| Tithimathi | Leopard | 17 | 4 |
| Pench(Mah) | Leopard | 7 | 2 |

Nearly 73% of the camera trapped images and 83% of the individual tigers, and, 60% of images and 56% of individual leopards are from Nagarahole, Bandipur and Wayanad sites.