

MAMMAL SPECIES INVENTORY



Mountain Zebra National Park

Report 1: October 2017 to November 2019

SnapshotSafari

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ZOONIVERSE



NELSON MANDELA
UNIVERSITY



Mammal species inventory

Common Name	Scientific Name	Scientific Authorship	Guild Realm	Order	Family	Regional Listing	Global Listing	CITES
Aardvark/Antbear	Orycteropus afer	(Pallas, 1766)	Carnivore	Tubulidentata	Orycteropodidae	Least Concern	Least Concern (2015)	
Aardwolf	Proteles cristata	(Sparrman, 1783)	Carnivore	Carnivora	Hyaenidae	Least Concern	Least Concern (2015)	III (Botswana) (1978)
Baboon (Chacma)	Papio ursinus	(Kerr, 1792)	Omnivore	Primates	Cercopithecidae	Least Concern	Least Concern (2008)	II (1977)
Blesbok	Damaliscus pygargus	(Harper 1939)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern	
Buffalo (Savanna)	Syncerus caffer	(Sparrman, 1779)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2008)	
Bushbuck	Tragelaphus scriptus	(Sparrman, 1780)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2008)	
Bushpig	Potamochoerus larvatus	(Cuvier, 1822)	Omnivore	Artiodactyla	Suidae	Least Concern	Least Concern (2016)	
Caracal	Caracal caracal	(Schreber, 1776)	Carnivore	Carnivora	Felidae	Least Concern	Least Concern (2016)	II (1979)
Cheetah	Acinonyx jubatus	(Schreber 1775)	Carnivore	Carnivora	Felidae	Vulnerable	Vulnerable (2015)	
Duiker (Common)	Sylvicapra grimmia	(Linnaeus, 1758)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2016)	
Eland	Tragelaphus oryx	(Pallas, 1766)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2008)	
fallow deer	Dama dama	(Linnaeus, 1758)	Herbivore	Artiodactyla	Cervidae	Least Concern	Least Concern	*nonindigenous
Fox (Bat-eared)	Otocyon megalotis	Desmarest 1822	Insectivore	Carnivora	Canidae	Least Concern	Least Concern	
Fox (Cape)	Vulpes chama	(A. Smith, 1833)	Carnivore	Carnivora	Canidae	Least Concern	Least Concern (2014)	
Gemsbok/Oryx	Oryx gazella	(Linnaeus, 1758)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2016)	
Genet (Small Spotted)	Genetta genetta	(Linnaeus, 1758)	Carnivore	Carnivora	Viverridae	Least Concern	Least Concern (2015)	
Hare (Scrub)	Lepus saxatilis	Linnaeus, 1758	Herbivore	Lagomorpha	Leporidae	Least Concern	Least Concern (2008)	
Hare (Spring)	Pedetes capensis	(Forster 1778)	Herbivore	Rodentia	Pedetidae	Least Concern	Least Concern (2016)	
Hartebeest (Red)	Alcelaphus buselaphus	(Pallas, 1766)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2016)	
Hyaena (Brown)	Parahyaena brunne	Thunberg, 1820	Carnivore	Carnivora	Hyaenidae	Near Threatened [C2a(i)+D	Near Threatened (2015) [C1]	
Jackal (Black-backed)	Canis mesomelas	(Schreber, 1775)	Omnivore	Carnivora	Canidae	Least Concern	Least Concern (2014)	
Kudu	Tragelaphus strepsir	(Pallas, 1766)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2008)	
Lion (African)	Panthera leo	(Linnaeus, 1758)	Carnivore	Carnivora	Felidae	Least Concern	Vulnerable (2016) [A2abcd]	II (1977)
Meerkat/Suricate	Suricata suricatta	(Schreber, 1776)	Carnivore	Carnivora	Herpestidae	Least Concern	Least Concern (2015)	

Mammal species inventory continued

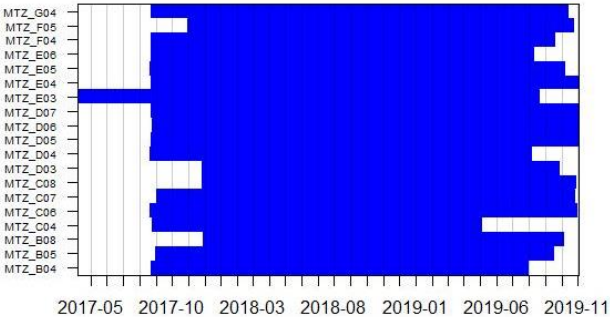
Common Name	Scientific Name	Scientific Authorship	Guild Realm	Order	Family	Regional Listing	Global Listing	CITES
Mongoose (Cape Grey)	Galerella pulverulea	(Wagner 1839)	Carnivore	Carnivora	Herpestidae	Least Concern		
Mongoose (Marsh)	Atilax paludinosus	(G. Baron Cuvier 1829)	Carnivore	Carnivora	Herpestidae	Least Concern	Least Concern	
Mongoose (Yellow)	Cynictis penicillata	(G. Baron Cuvier 1829)	Carnivore	Carnivora	Herpestidae	Least Concern	Least Concern (2015)	
Monkey (Vervet)	Chlorocebus pygmaeus	(Cuvier, 1821)	Omnivore	Primates	Cercopithecidae	Least Concern	Least Concern (2008)	II (1977)
Zorilla/Polecat (Striped)	Ictonyx striatus	(Perry 1810)	Carnivore	Carnivora	Mustelidae	Least Concern	Least Concern	
Porcupine	Hystrix africaeaustralis	(Peters, 1852)	Herbivore	Rodentia	Hystriidae	Least Concern	Least Concern (2016)	
Reedbuck (Mountain)	Redunca fulvorufa	(Afzelius, 1815)	Herbivore	Artiodactyla	Bovidae	Endangered [A2b]	Least Concern (2008)	
Rhebok (Grey)	Pelea capreolus	Forster 1790	Herbivore	Artiodactyla	Bovidae	Near Threatened		
Rhinoceros (Black)	Diceros bicornis	(Linnaeus, 1758)	Herbivore	Perissodactyla	Rhinocerotidae	Endangered [C2a(i)]	Critically Endangered [A]	Appendix I
Springbok	Antidorcas marsupialis	(Zimmerman 1780)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern	
Steenbok	Raphicerus campestris	(Thunberg, 1811)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern (2016)	
Warthog (Common)	Phacochoerus africanus	(Gmelin, 1788)	Omnivore	Artiodactyla	Suidae	Least Concern	Least Concern (2016)	
Weasel (African Striped)	Poecilogale albinucha	Gray 1864	Carnivore	Carnivora	Mustelidae	Least Concern	Least Concern (2015)	
Wildebeest (Black)	Connochaetes gnou	(Zimmermann 1788)	Herbivore	Artiodactyla	Bovidae	Least Concern	Least Concern	
Zebra (Mountain)	Equus zebra	(Linnaeus 1758)	Herbivore	Perissodactyla	Equidae	Vulnerable	Vulnerable	

SnapshotSafari is a transnational program aiming at providing a greater knowledge about mammal populations accross southern Africa. Thanks to standardized **camera traps** (CTs) grid, deployed in various locations reflecting a diversity of conservation states (from protected areas to highly transformed areas), SnapshotSafari aims at describing mammal population **abundances**, diversities and **spatial occurrences**. The data provided will benefit Research, in fields as broad as Genetics, Ecology or conservation Biology, as well by providing to conservation planning a comprehensive synthesis of which species can be found in their location, with which abundance...etc.

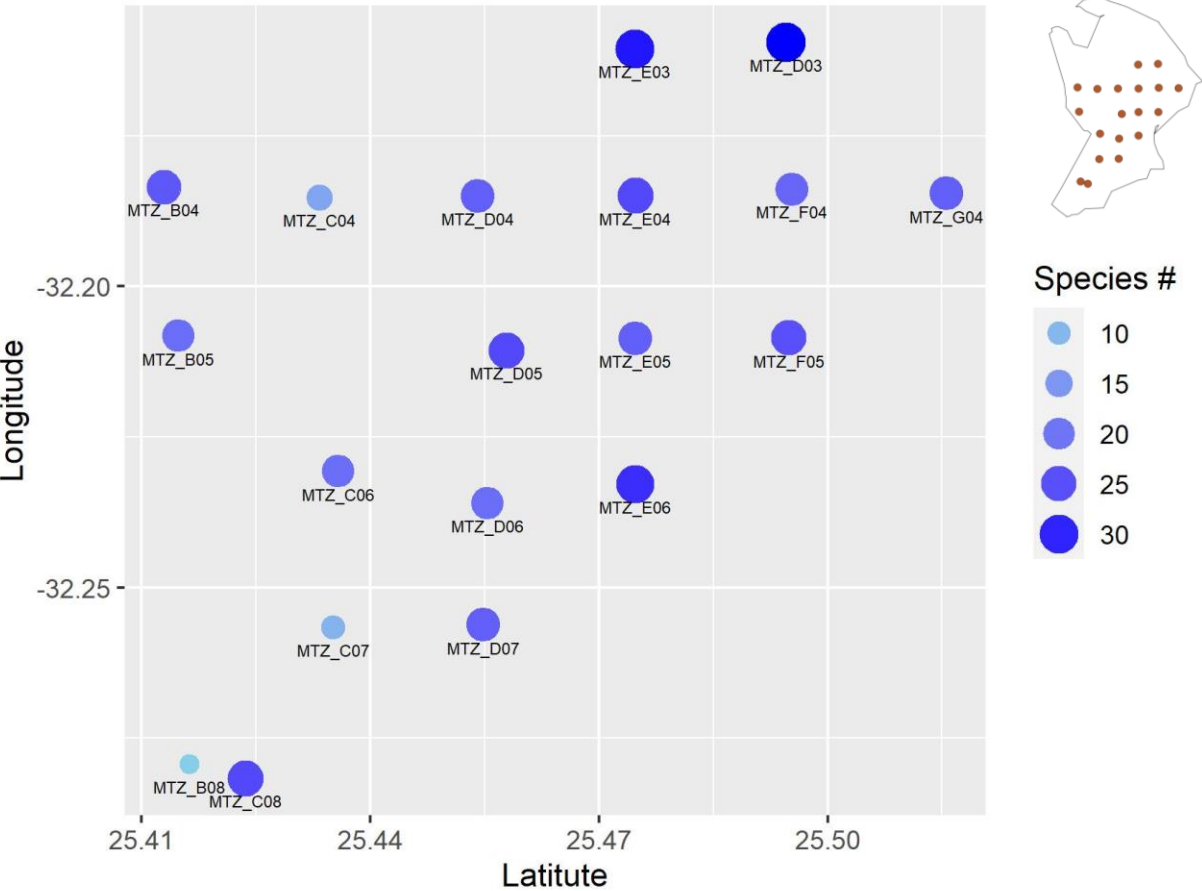


Camera trap operational time

The project is coordinated in South Africa by Nelson by Mandela University's **Wildlife Ecology Lab**. The images collected by the CTs (as much as thousands per site) are sent to the United States (**University of Minnesota**) to be processed via a **participative science plateform** (Zooniverse) and **machine learning** (a popular IT field that allows automatized recognition of elements in an image, for instance antelopes in a landscape photo).



General statistics

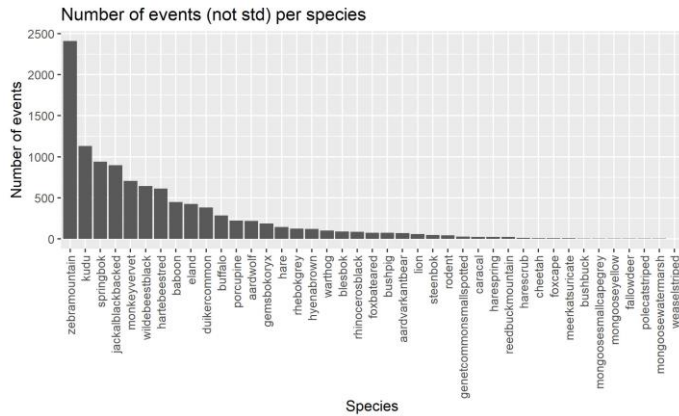
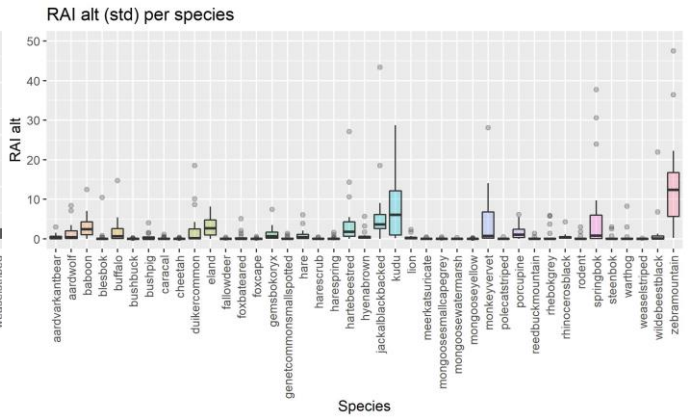
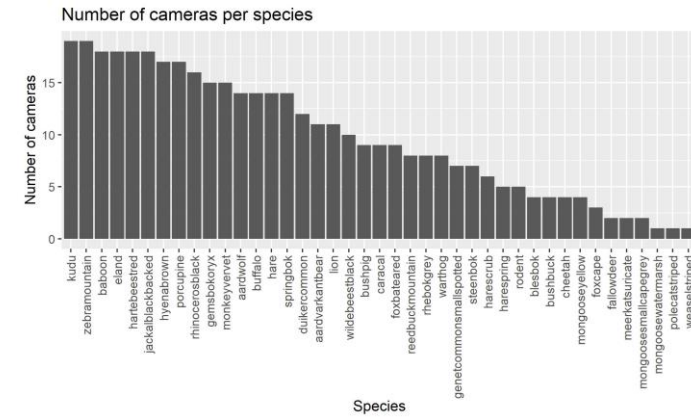


Species richness per camera trap

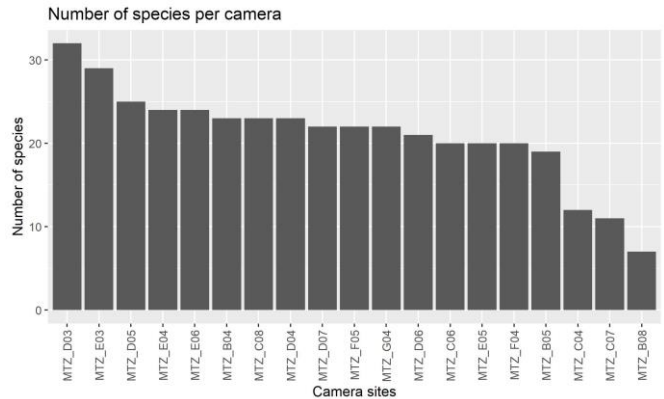
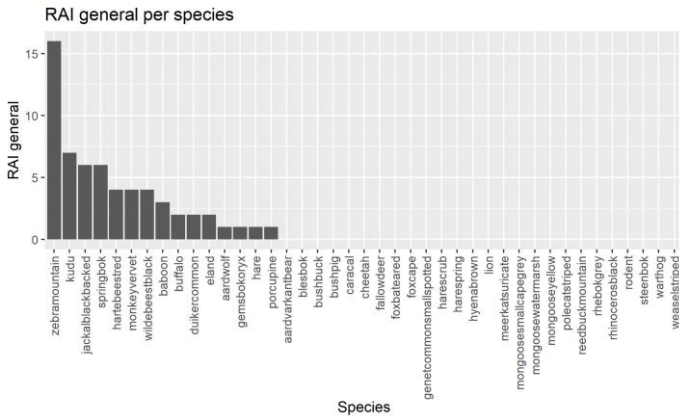
Camera trap operational detail

Camera.Site	setup_date	first_image_date	last_image_date	retrieval_date	n_nights_ total	n_nights_ active
MTZ_B04	2017-08-23	2017-08-24	2019-08-02	2019-08-01	708	708
MTZ_B05	2017-08-31	2017-09-01	2019-09-17	2019-09-16	746	746
MTZ_B08	2017-11-30	2017-12-01	2019-10-06	2019-10-05	674	674
MTZ_C04	2017-08-25	2017-08-26	2019-05-07	2019-05-06	619	619
MTZ_C06	2017-08-22	2017-08-23	2019-11-01	2019-10-31	800	800
MTZ_C07	2017-09-02	2017-09-03	2019-10-28	2019-10-27	785	785
MTZ_C08	2017-11-28	2017-11-29	2019-10-29	2019-10-28	699	699
MTZ_D03	2017-11-27	2017-11-28	2019-09-28	2019-09-27	669	669
MTZ_D04	2017-08-22	2017-08-23	2019-08-07	2019-08-06	714	714
MTZ_D05	2017-08-23	2017-08-24	2019-11-03	2019-11-02	801	801
MTZ_D06	2017-08-26	2017-08-27	2019-11-02	2019-11-01	797	797
MTZ_D07	2017-08-24	2017-08-25	2019-11-02	2019-11-01	799	799
MTZ_E03	2017-04-09	2017-04-10	2019-08-23	2019-08-22	865	865
MTZ_E04	2017-08-23	2017-08-24	2019-11-03	2019-11-02	801	801
MTZ_E05	2017-08-22	2017-08-23	2019-10-09	2019-10-08	777	777
MTZ_E06	2017-08-23	2017-08-24	2019-08-11	2019-08-10	717	717
MTZ_F04	2017-08-23	2017-08-24	2019-09-21	2019-09-20	758	758
MTZ_F05	2017-11-01	2017-11-02	2019-10-26	2019-10-25	723	723
MTZ_G04	2017-08-23	2017-08-24	2019-10-14	2019-10-13	781	781

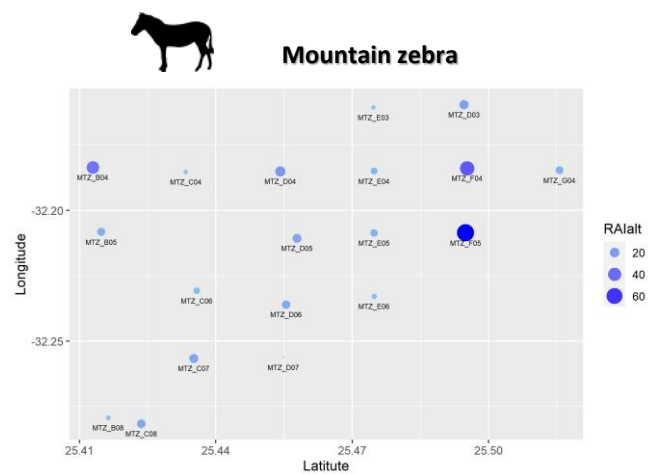
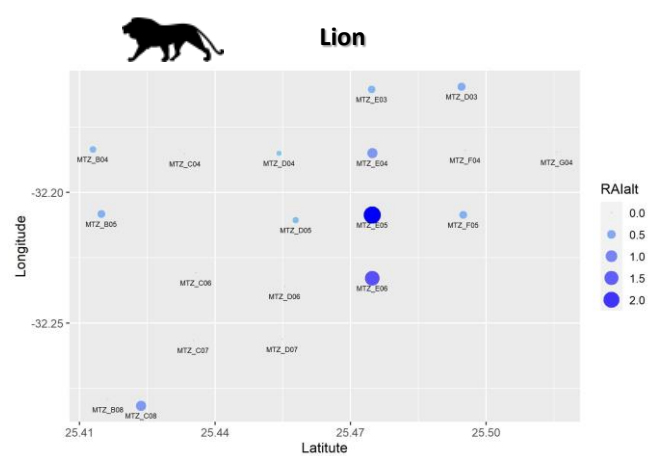
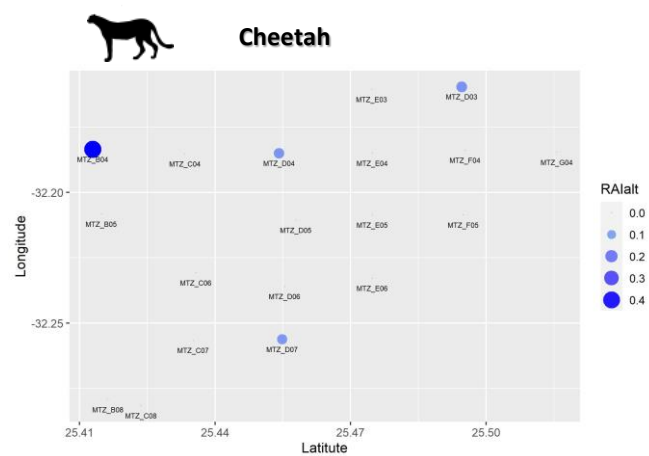
General statistics



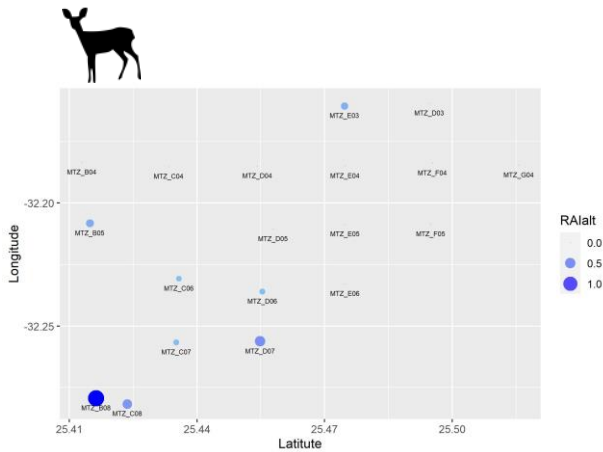
Relative Abundance Index (RAI) is calculated according to the trapping rate of each camera (i.e. the **frequency of animal detection**).



RAI of species of special concern



Mountain reedbuck



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<https://doi.org/10.1017/CBO9781107340992>

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Mammal RedList 2016, <https://www.ewt.org.za/resources/resources-mammal-red-list/>