



ACTION D.3 – SURVIVAL RATES AND DISPERSAL PATTERN OF RELEASED VULTURES 2019

Vulture heat maps

Methods

The heatmaps were realised with the software Quantum Gis, version 2.18.17. Data were gathered by satellite tracking of 16 restocked vultures and of 6 rehabilitated birds from Sardinia, as summarized in table 1. Restocking was carried on in collaboration with the Vulture Conservation Foundation (www.4vultures.org). All birds from Sardinia were released from boxes in the Bosa area. All restocked birds were released in Porto Conte or in Monte Minerva (as specified in the maps). The acclimatization period at the release site lasted 15 months for Porto Conte and 3 months for Monte Minerva. Both acclimatization aviaries are located inside a centralized feeding station.

Highlights

- The centralized feeding station activated in the Porto Conte Regional Park is a hotspot for all the vultures released in Porto Conte. It is also a hotspot for two local birds and for two restocked birds released in Monte Minerva;

- The centralized feeding station of Monte Minerva is a hotspot for all the vultures except for Cuada (adult, female, released in Monte Minerva);

N.	Name of the vulture	Sex	Age	Source	Data from - to
1	<u>Artis 1</u>	Male	Born in 2017	Restocked, born in captivity in the ARTIS Zoo (Amsterdam)	April– October 2019
2	<u>Artis 2</u>	Female	Born in 2017	Restocked, born in captivity in the ARTIS Zoo (Amsterdam)	April– February 2019 (transmitter stopped working)
3	<u>Artis 3</u>	Female	Born in 2018	Restocked, born in captivity in the ARTIS Zoo (Amsterdam)	June – October 2019
4	<u>Artis 4</u>	Male	Born in 2018	Restocked, born in captivity in the ARTIS Zoo (Amsterdam)	June – October 2019
5	Barca	Female	Born in 2015	Restocked, rehabilitated in AMUS* rescue centre (Spain)	April 2018– October 2019
6	<u>Bonassai</u>	Female	Born in 2017	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	September 2017– July 2018
7	<u>Bulga</u>	Female	Born in 2015	Restocked, rehabilitated in AMUS* rescue centre (Spain)	April 2018– August 2019 (the bird died after a collision with a helicopter)
8	<u>Cannisone</u>	Male	Born in 2016	Restocked, rehabilitated in AMUS* rescue centre (Spain)	December 2018 – September 2019 (the transmitter was lost)
9	<u>Cristallo</u>	Male	Born in 2015	Restocked, rehabilitated in AMUS* rescue centre (Spain)	April 2018– October 2019
10	<u>Cuada</u>	Female	Adult	Restocked, rehabilitated in AMUS* rescue centre (Spain)	December 2018 – October 2019
11	<u>Fenugiu</u>	Male	Born in 2015	Restocked, rehabilitated in AMUS* rescue centre (Spain)	April 2018– October 2019
12	Jana	Female	Born in 2016	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	March– December 2017
13	Julio	Female	Born in 2018	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	December 2018 – May 2019 (the bird died after electrocution in a power line)
14	Lobo	Male	Born in 2018	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	December 2018 – October 2019 (the transmitter was lost)



- Hotspots for the vultures from the Sardinian population are more concentrated in the Bosa area;

- Restocked vultures, irrespectively of age, sex and season, frequent the Porto Conte regional park, the Bosa territory, the Altopiano di Campeda, and the corridor between these SPAs;

- Different hotspots are located outside the SPAs;

- All vulture foraging movement are concentrated in north-west of the island.

15	<u>Macomer</u>	Female	Born in 2018	Restocked, rehabilitated in Los Hornos rescue centre (Spain)	June 2019 – October 2019
16	Mina	Female	Born in 2017	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	November 2017– October 2019
17	<u>Pabelanasa</u>	Female	Born in 2016	Restocked, rehabilitated in AMUS* rescue centre (Spain)	December 2018 – October 2019
18	<u>Pituabile</u>	Male	Born in 2016	Restocked, rehabilitated in AMUS* rescue centre (Spain)	December 2018 – October 2019
19	<u>Pozzomaggiore</u>	Male	Born in 2018	Restocked, rehabilitated in AMUS* rescue centre (Spain)	June 2019 – October 2019
20	<u>Tempestosa</u>	Female	Born in 2016	From Sardinia, rehabilitated in Bonassai rescue centre (FoReSTAS)	March– September 2017
21	<u>Timidone</u>	Male	Born in 2015	Restocked, rehabilitated in AMUS* rescue centre (Spain)	April 2018– October 2019
22	<u>Urincule</u>	Male	Born in 2016	Restocked, rehabilitated in AMUS* rescue centre (Spain)	September 2019 – October 2019

*<http://www.amus.org.es/>

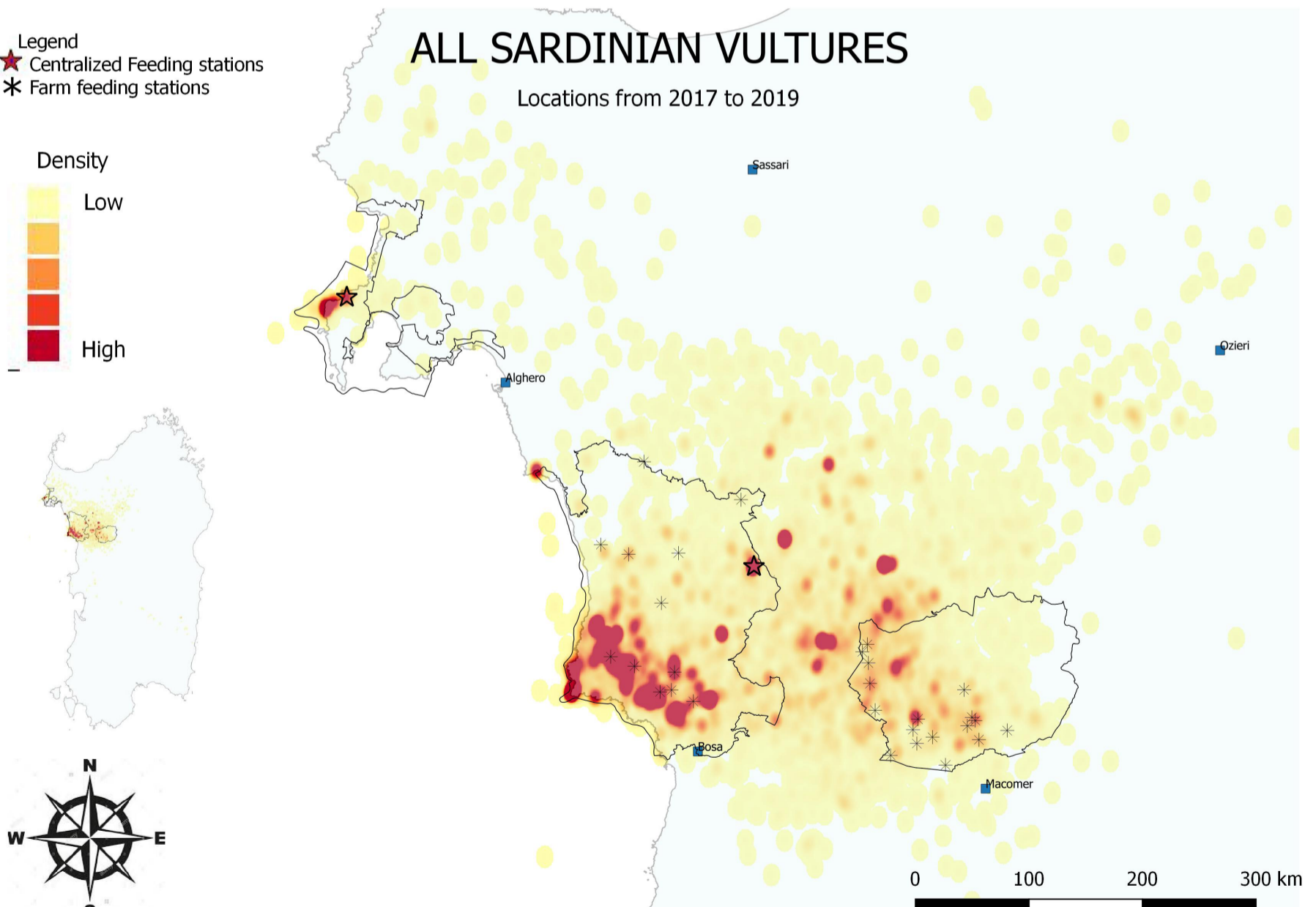
Legend
 ★ Centralized Feeding stations
 ✱ Farm feeding stations

Density



ALL SARDINIAN VULTURES

Locations from 2017 to 2019





Legend
★ Centralized Feeding stations
✱ Farm feeding stations

