



Satellite tracking of a female Great Bustard in Hungary

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Which type of marking to use?

- Risk of catching wild bird (getting as many information as possible)
- Very few extra energy for the data collection
- Hope to get information about accidental winter migration



Which bird to tag?

- Wild (We want to get information about wild birds)
- Adult (More chance for long term monitoring)
- Female (Easier to catch)
 - Female caught on nest with dumies, in an obviously unsuitable buffer zone

2006.05.11. – catching area







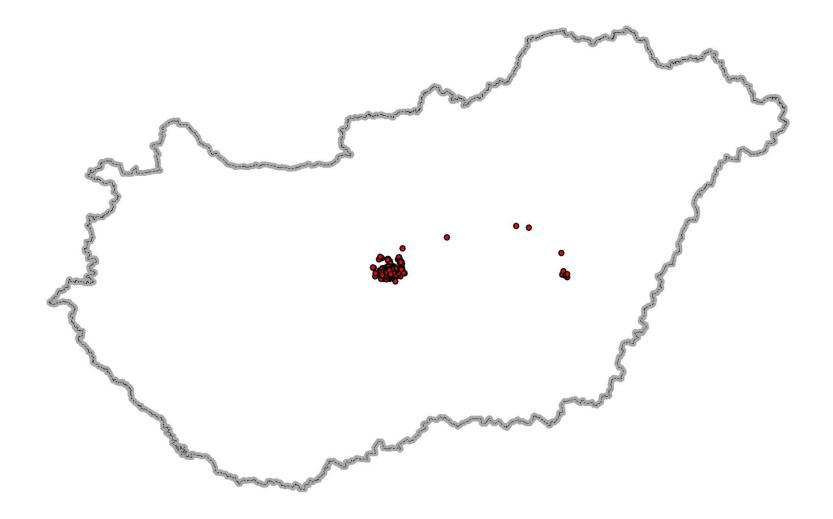


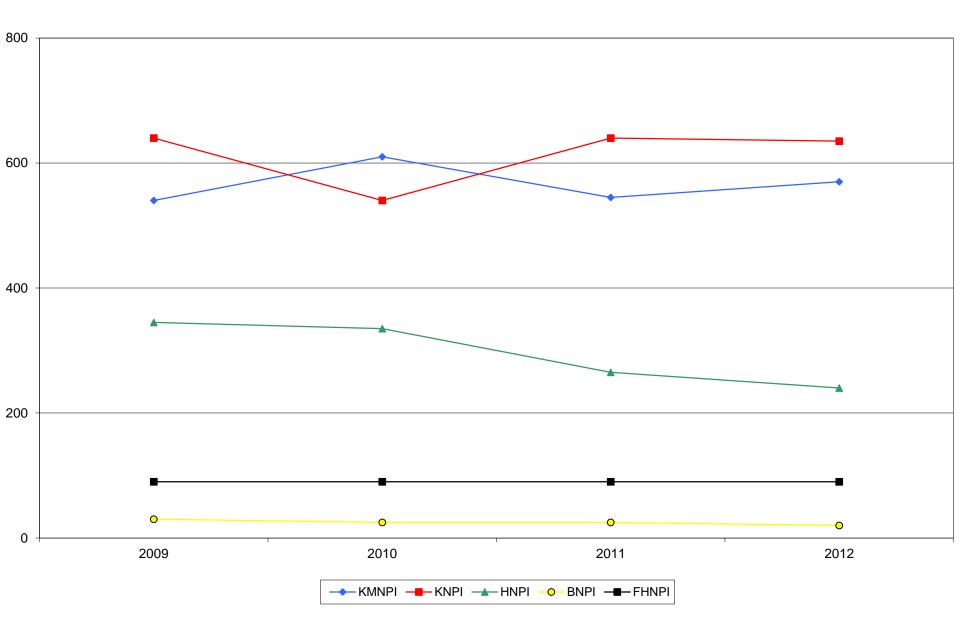
Some details about the results

- Tagging: 2006.05.12.
- Last information: 2016.06.18.
- 10 years, 1 month and 6 days
- <u>3690 days in total!</u>
- 2988 records in total (missing data)
 - 648 records on protected area (21,7%)
 - 2767 records on Natura 2000 area (92,6%)

Missing data

- Lack of suitable software
- Lack of personnel
 - Needs regular work in office
 - Needs regular work on field
- Long period
 - Battery dies
 - Solar panel worked further on
 - Last period the data collection and transmitting depended on weather





Only once left the Kiskunság

- 2009.11.17. Kiskuság (missing data)
- 2010.01.09. 2010.03.23. Túrkeve
- 2010.03.23. Túrkeve (120 km)
- 2010.03.23/24.
- 2010.03.24/25.
- 2010.03.25.
- 2010.03.26.
- 2010.03.27.

Kisújszállás (roosting) Tiszagyenda (roosting)

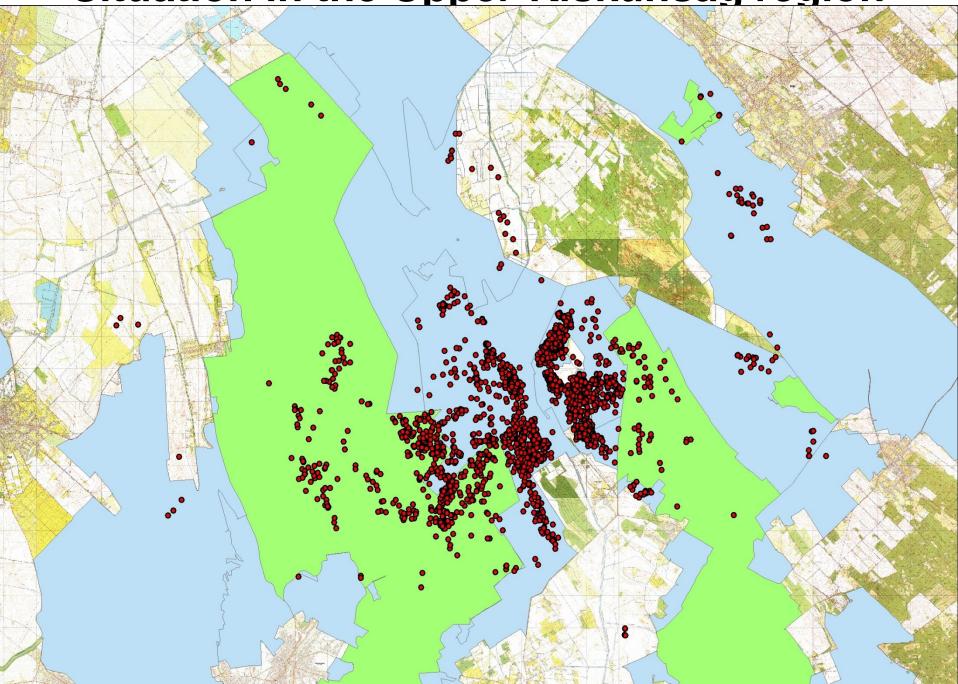
- Tiszasüly
- Tápiószentmárton

Kakucs/Inárcs

Discover of potential GB sites



Situation in the Upper-Kiskunság region

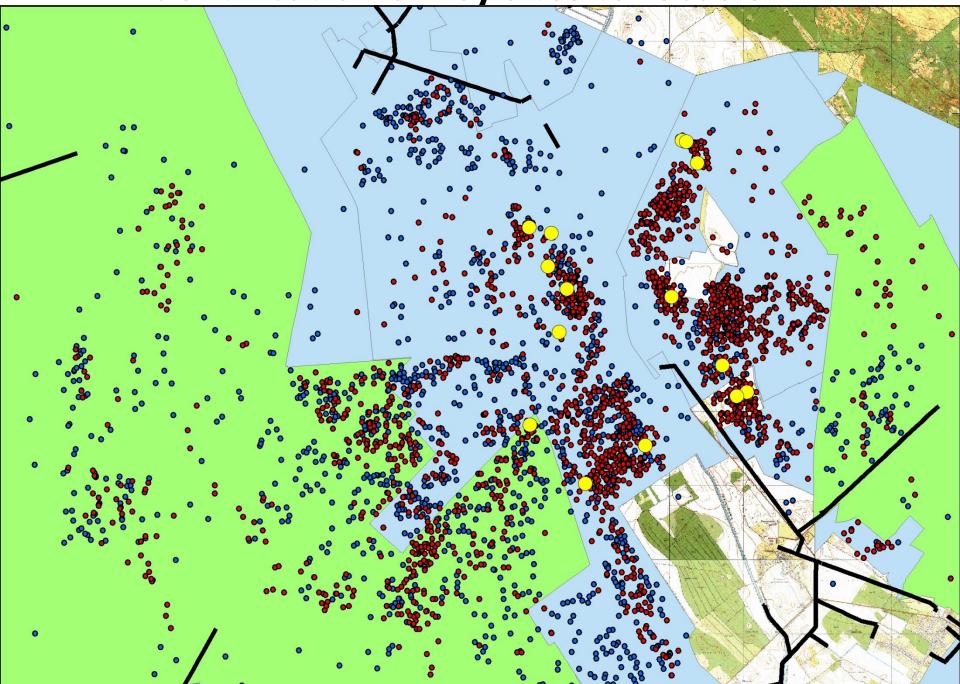


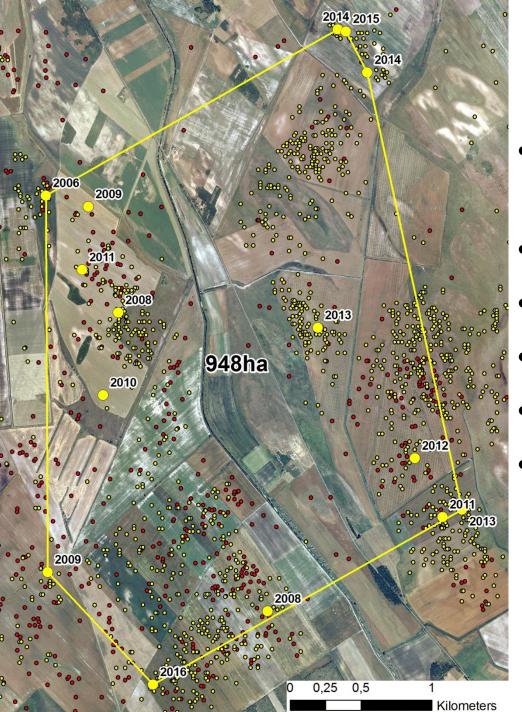
"Dual theory"

- Separation of displaying and breeding sites
- Different management
- Question of protection
 - Border of National
 Park
 - Soil quality
 - Observation of birds



Identification of key sites to focus on...





- The most frequently used area
- GB observations
- Tagged female
- Nest locations
- Breeding range
- Size of the breeding range

Breedings of the bird

- A total of 15 nest locations from 10 years (2007. is missing!)
- Only 1 nest (6,7%) within the protected area!
- 4 times "successful" breeding (hatching detected)
- All "successful" breeding from replacement clutches of the given year
- Replacment clutches minimum 6 times (minimum 60%!)
- Minimum twice the chick has not grown up!

Success of the breedings

• Year	1st	2nd	notes
• 2006	failed		mowing alfalfa
• 2007	missing data	missing data	
• 2008	failed	failed	overgrown veg.
• 2009	failed	hatched	
• 2010	failed	missing data	
• 2011	failed	hatched	
• 2012	failed		predation
• 2013	failed	hatched	overgrown veg.
• 2014	failed	hatched	overgrown veg.
• 2015	failed		
• 2016	failed		

2008 - overgrown, dense vegetation





2012 predation

2013 – E-grass, predation

CAN MARA CARA ANA CARA



2014 – overgrown, dense vegetation



2014 – hatched clutch



2015 - failed





2016.06.19. 15:54

Tasks to do

- Get missing data if possible
- Analysis of:
 - Pre bredding behaviour
 - Post breeding behaviour
 - Behaviour in case of replacement clutches
- Publish in Aquila

