

Protection of Common Tern in South Moravian Region 2008–2023



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Before...

- The one of the most important region for common terns in Czech republic
- IBA Střední nádrž vodního díla Nové Mlýny (water reservoir)
- Second half of the 90s 100–150 pairs, 1995 more than 200 pairs





 Estimate for the Czech republic in 2001– 2003: 400–600 pairs

Before...

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- IBA Střední nádrž vodního díla Nové Mlýny (water reservoir)
- Second half of the 90s 100–150 pairs, 1995 more than 200 pairs
- last regular breeding place 79 pairs in 2007, only 34 pairs in 2008







Monitoring methods

- min. four observations per season
- direct control only one at the beginning of the breeding season and only on selected islands
- scope observation smaller colonies and clear islands
- drone monitoring last years
- photo-trap monitoring on four islands in year 2023
- other focus on potential predators and interspecific interactions





















		and add to the con-
Material	concrete construction	
Size	143 – 153 m2	
Minimum	25 (2015)	
Maximum number of pairs	97 (2022)	
Maximum density	0,63 pair/m2	
Average	44,67 pairs	
other species	Black-headed gull, Mediterranean gull, Caspian gull, White wagtail	

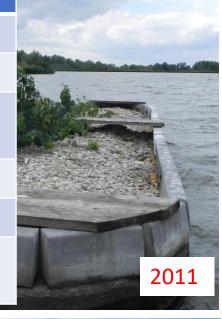






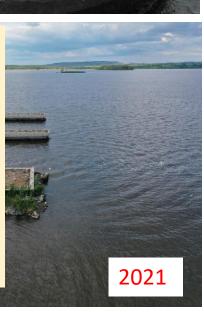


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- + traditional breeding site
- + safe against mammal predation
- + improving nesting success
- complicated and expensive reconstruction
- waves
- competition with Black-headed gull









Material	stones, rubble
Size	154 m2
Minimum	0 (2019-2023)
Maximum number of pairs	105 (2016)
Maximum density	0,68 pair/m2
Average	57,17 pairs
other species	Black-headed gull, Caspian gull

- + cheap and fast reconstruction
- + high number of pairs
- low breeding success
- waves
- predation
- occupation by Caspian gull

Support of Common terns – management of nesting sites







Material	clay
Size	5430 – 33 m2 for terns
Minimum	0 (2014)
Maximum number of pairs	27 (2018)
Maximum denzity	? pair/m2
Average	14,33 pairs
other species	Black-headed gull, Mediterranean gull, Caspian gull, ducks, Graylag Goose etc.



Support of Common terns – management of nesting sites







+ management with volunteers

- + important breeding colonies of other species
- + important site for biodiversity
- poor breeding success of terns

Material	clay
Size	5430 – 33 m2 for terns
Minimum	0 (2014)
Maximum number of pairs	27 (2018)
Maximum density	? pair/m2
Average	14,33 pairs
other species	Black-headed gull, Mediterranean gull, Caspian gull, ducks, Graylag Goose etc.

Support of Common terns – wooden floating islands





Material	Wood and plastic or metal barrels
Number	N132 (12 sites)
Size	+/- 9 m2
Minimum	0 (only four times)
Maximum number of pairs	37 (2020, 36 more times)
Maximum density	4,11 pair/m2
Average	11,41 pairs
other species	Black-headed gull, White wagtail, Mallard



- + rapid occupation by terns
- + easy production
- + high breeding success
- short service life
- regular maintenance and inspection required
- location without large waves required
- anchoring
- duck nesting (only three times)

Floating platforms – support of biodiversity and water quality

• **Project**: 2022 – 2024

Main goals:

- expansion of breeding opportunities for Common terns and possibly other species, increase of the overall biodiversity in the area
- innovations of vegetated platforms
- ensuring the durability of the floating platforms and reducing the maintenance required
- prevention of nest predation



Working together for a green Europe



Support of Common terns – floating concrete islands







Material	Concrete
Number	N9 (5 islands + 4 new in 2024 season)
Size	+/- 20 m2
Minimum	2 (2023)
Maximum number of pairs	49 (2019)
Maximum denzity	2,67 pair/m2
Average	30,25 pairs
other species	Black-headed gull, White wagtail

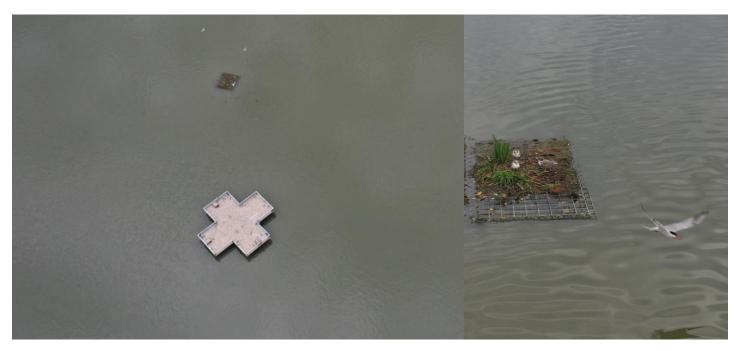
- + strong resistant construction (guarantee)
- + high breeding success
- + wave-resistant
- + safe against mammals predation
- expensive costs
- regular inspection required
- duck nesting (potential)

Support of Common terns – floating concrete islands



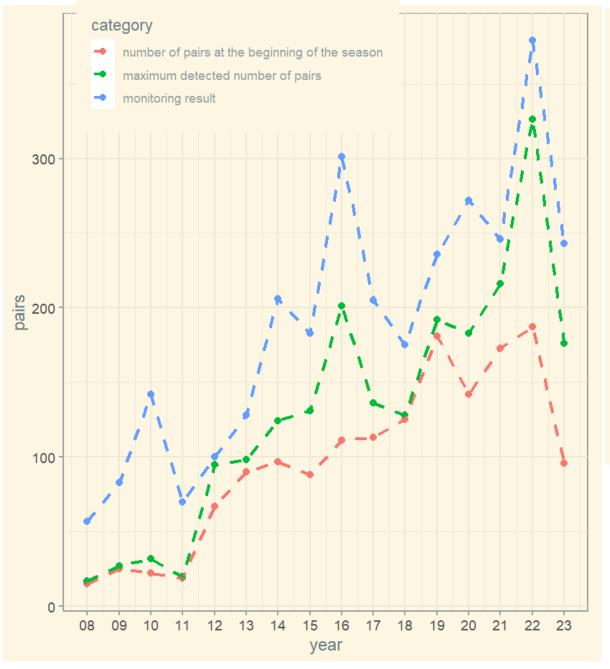


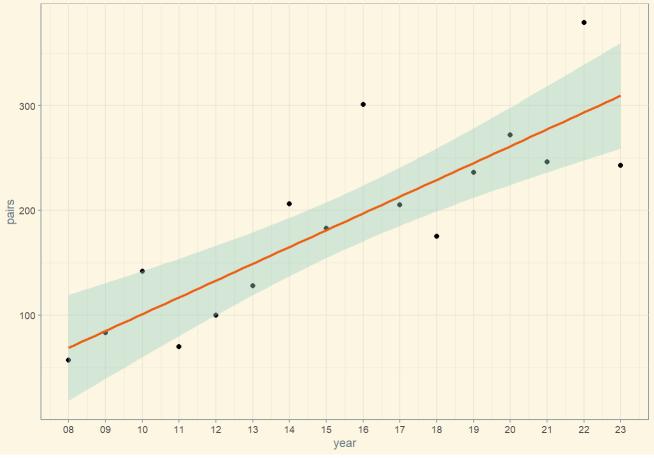


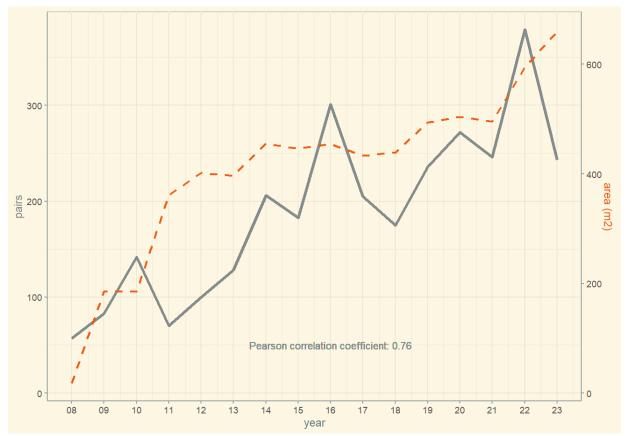


- + **safe** against mammals predation
- measures for few species
- fallen-out chickscannot return -kindergartens





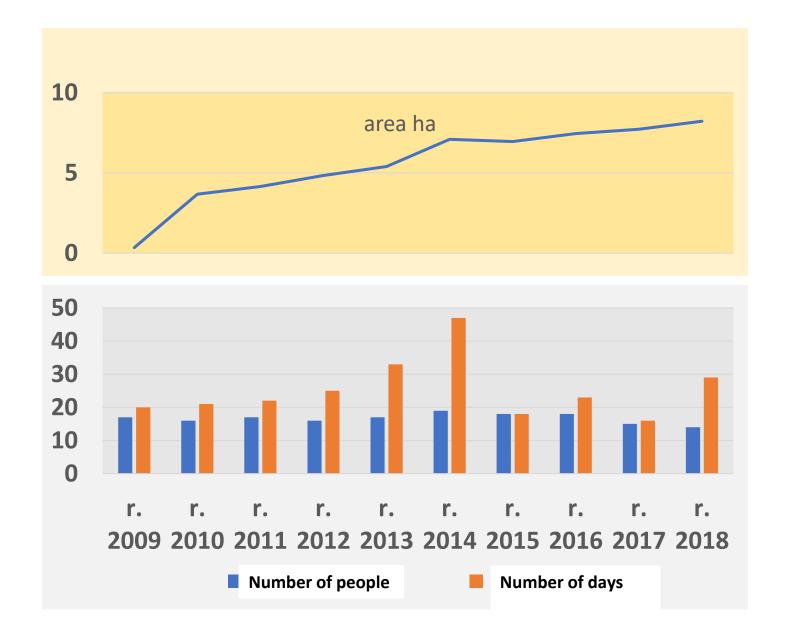






Support of Common terns – volunteers and cooperation Tork



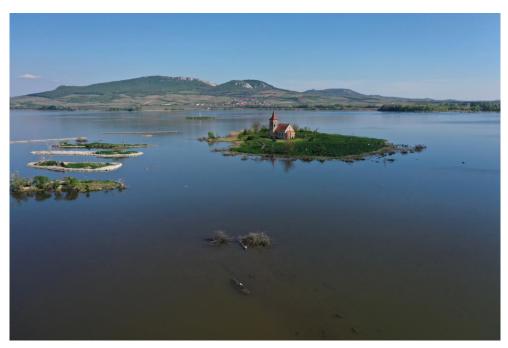






Summary, future objectives and conclusion

- stable functional nesting sites safe from mammalian predators in multiple locations
- no more wooden islands
- natural islands management because of biodiversity
- the size of the present managed areas is OK
- cooperation with fishermen is possible
- protection of natural nesting sites





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volunteers















