

# Effectiveness of ecoducts and human activity

Ivo Dostál

Project CK03000086 Transport infrastructure permeability  
for fauna as a prerequisite for safe and sustainable transport

**T A**  
**C R**

This project is financed from the state budget  
by the Technology Agency of the Czech Republic  
and the Ministry of Transport  
within the DOPRAVA 2020+ Programme.

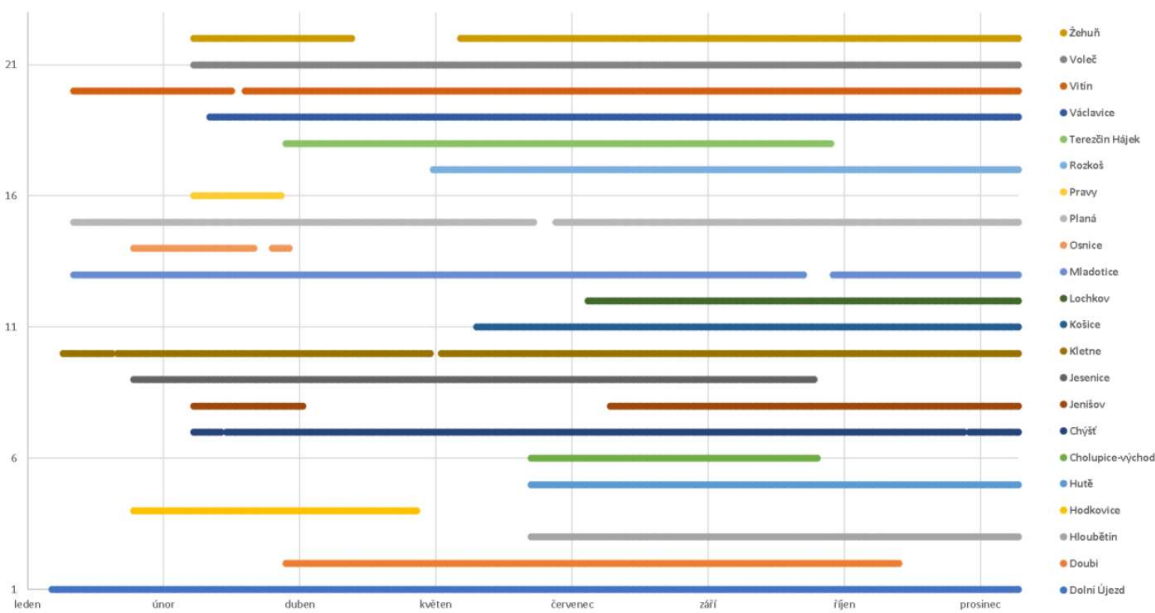
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## Brief project introduction

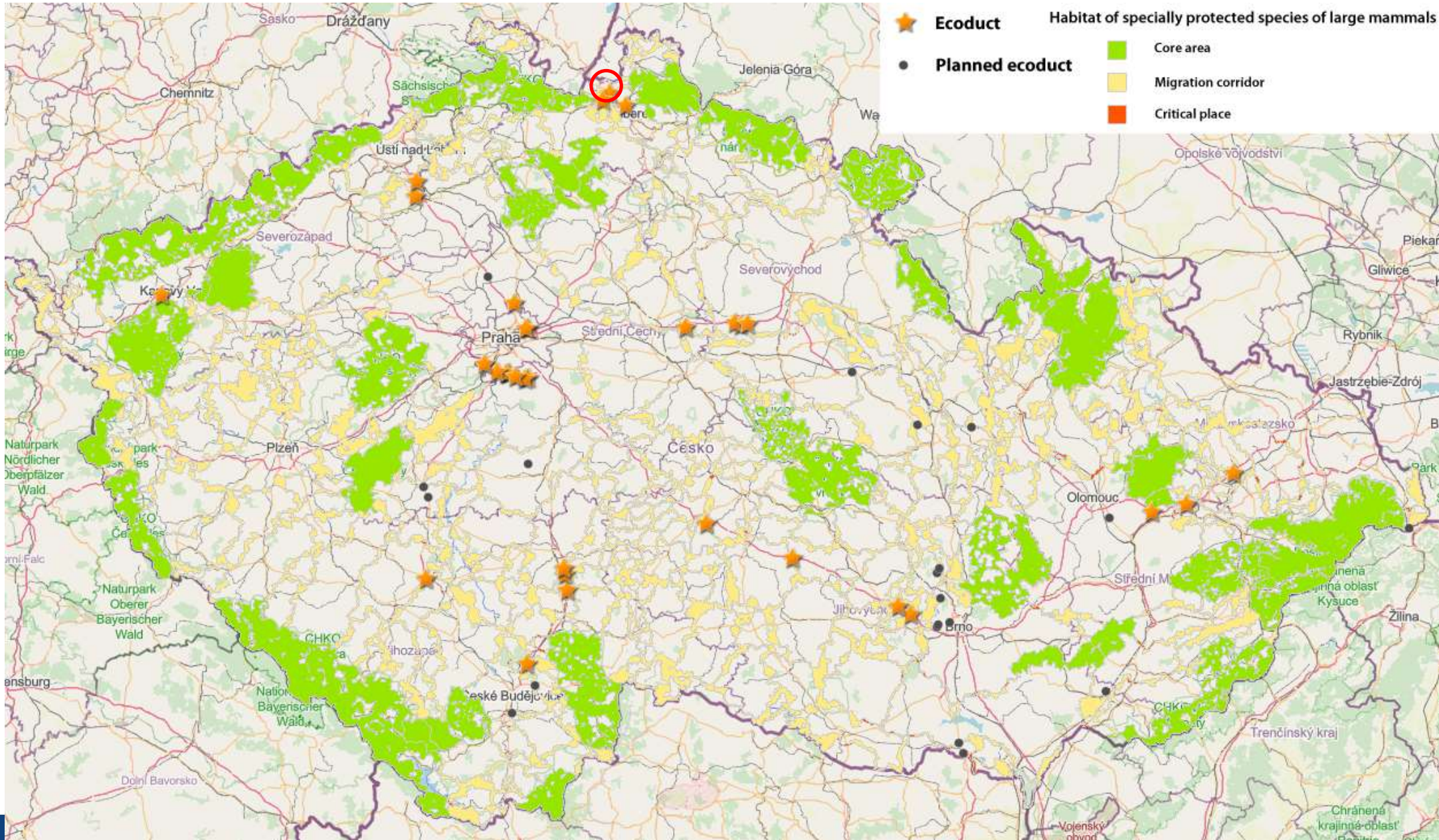
- **„Transport infrastructure permeability for fauna as a prerequisite for safe and sustainable transport“ (TRIPASS)**
- **Period: 2022 – 2026; Programme: TAČR Doprava 2020+**
- **LP: Nature Conservation Agency; PP: HBH Projekt; CDV**
- **Main activities:**
  - **fauna passages - monitoring the use of ecoducts using trail cameras**
  - **artificial fauna deterrents - efficiency monitoring on seven road sections**
  - **documents for updating the technical conditions of the Ministry of Transport for migration objects**

# Fauna passages monitoring

- Oxe Spider cameras with GSM capability (1 – 3 cameras / ecoduct)
- 22 different ecoduts; 4997 days; 11 ecoduts all-year
- ca 75,000 relevant records out of 170,000 pictures delivered







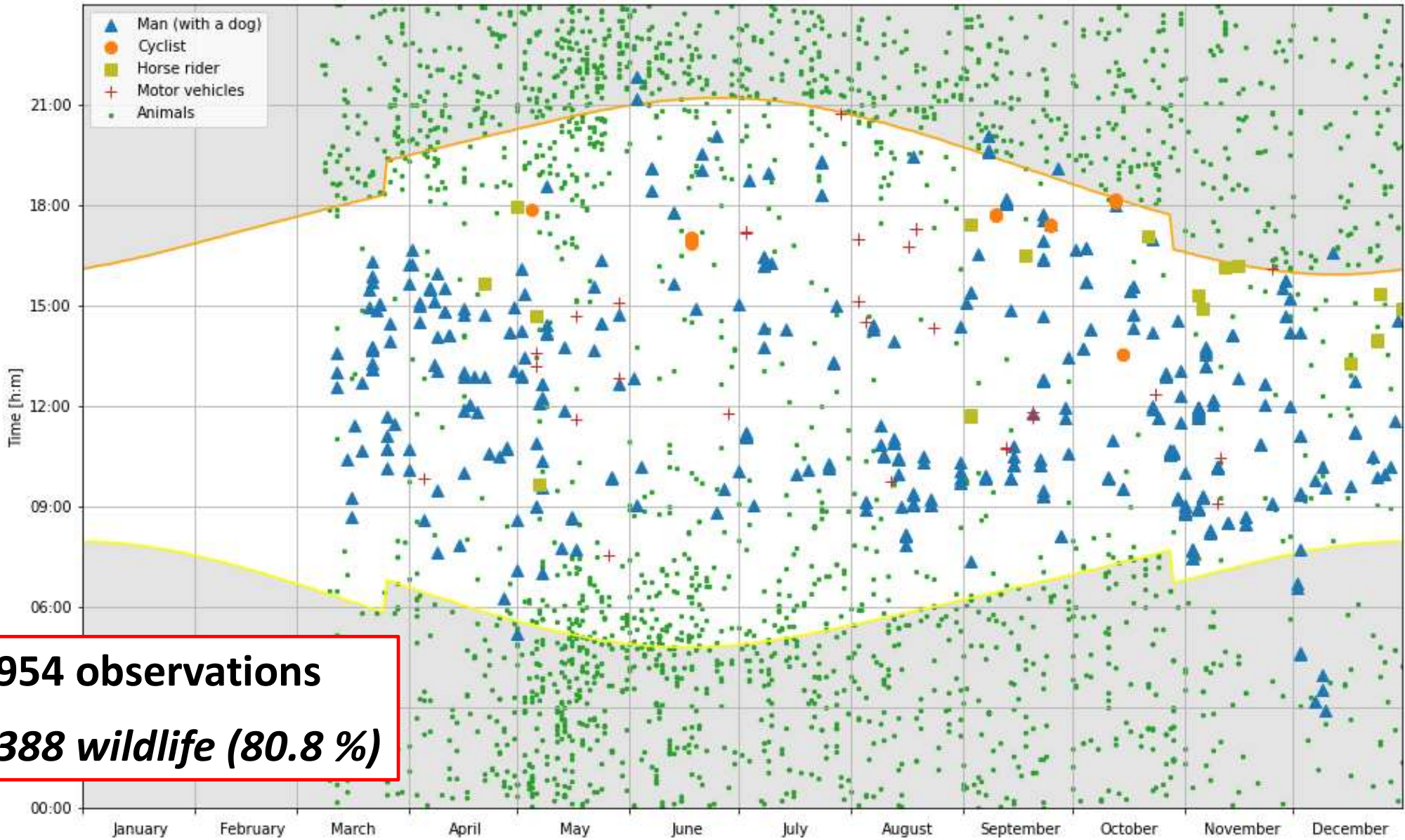


## Václavice ecoduct

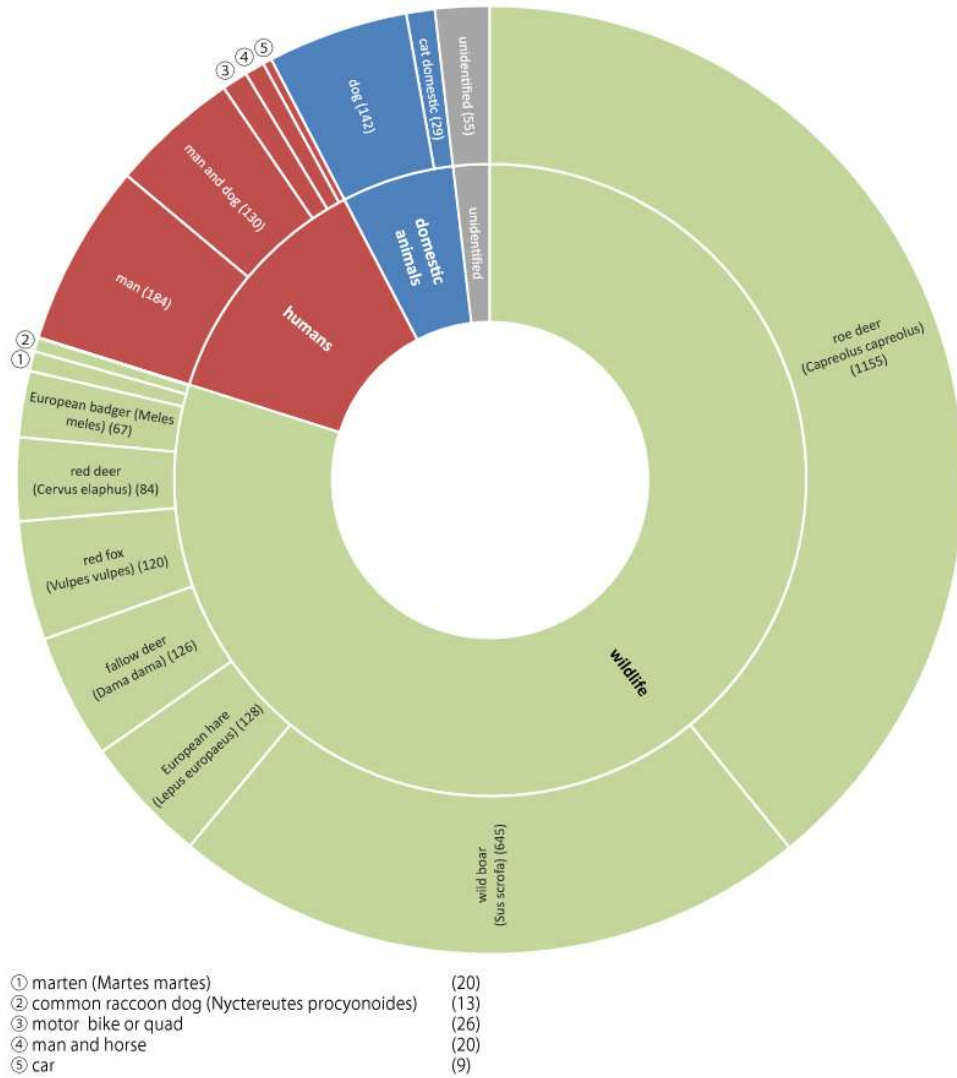
- national road I/35
- forest-agriculture mosaic landscape
- two trail cameras
- period: March – December 2023 (299 days)



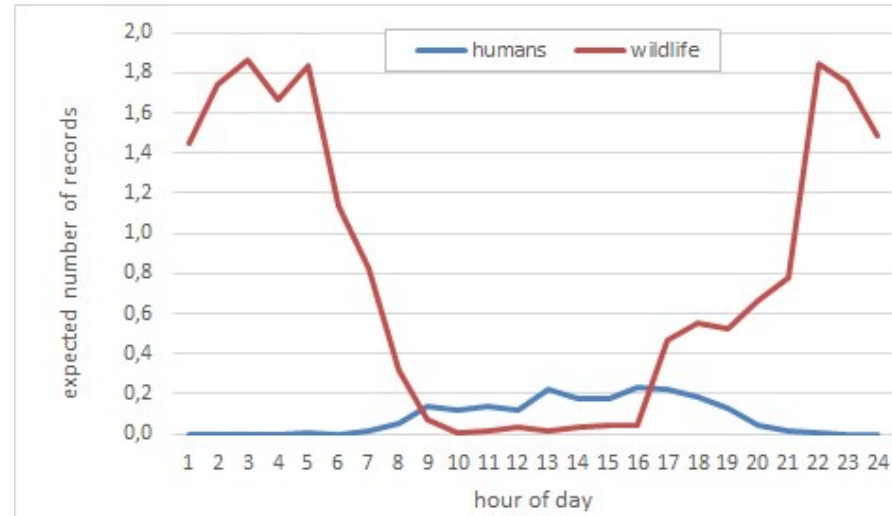




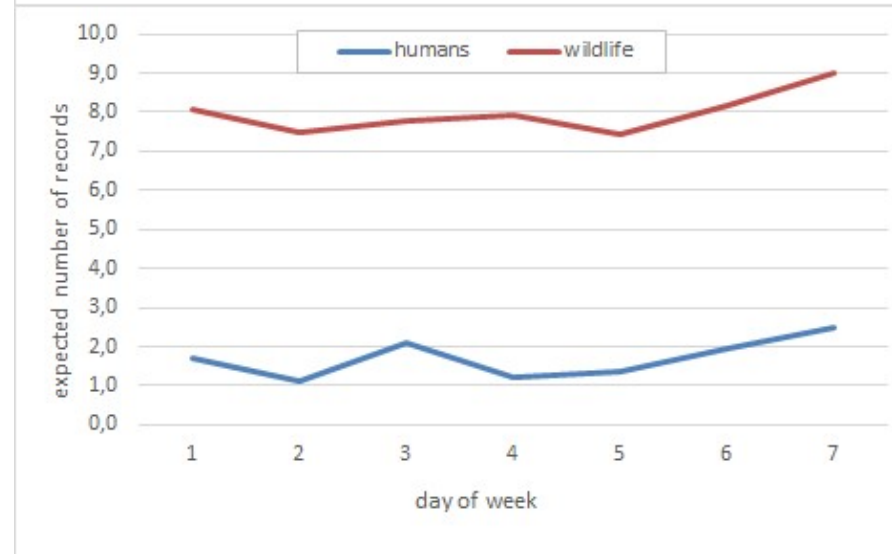
# Václavice results



## daily variation



## weekly variation





# Best of Václavice



N50° 50' 02" E014° 56' 22" VACLAVICE2 [Battery Icon] [Moon Icon] 69F 21C 2024/04/13 18:27:13



N50° 50' 02" E014° 56' 23" VACLAVICE2 [Battery Icon] [Moon Icon] 41F 5C 2024/03/16 22:15:38

VACLAVICE1 [Battery Icon] [Sun Icon] 78F 26C 2023/06/01 07:55:15





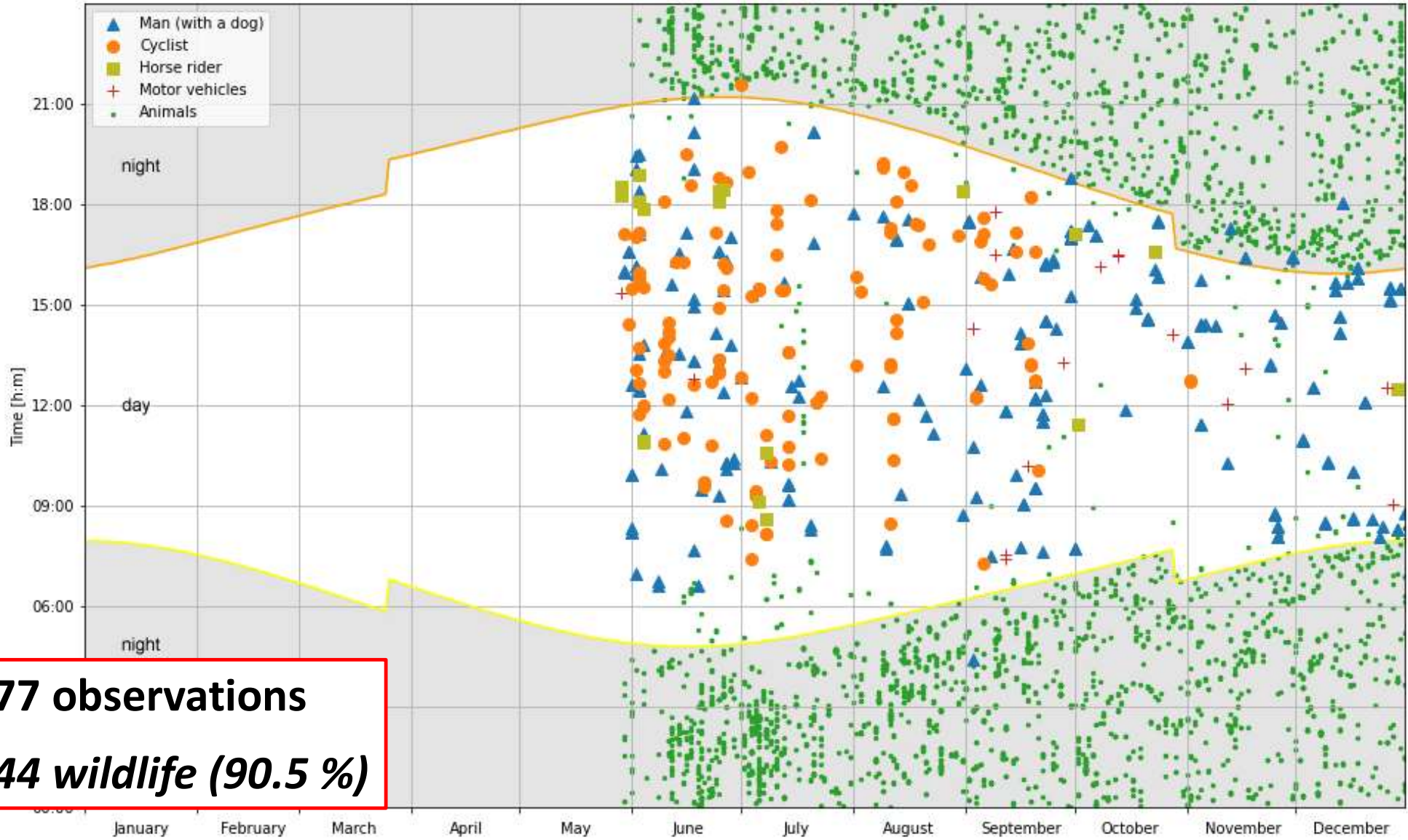


## Rozkoš ecoduct

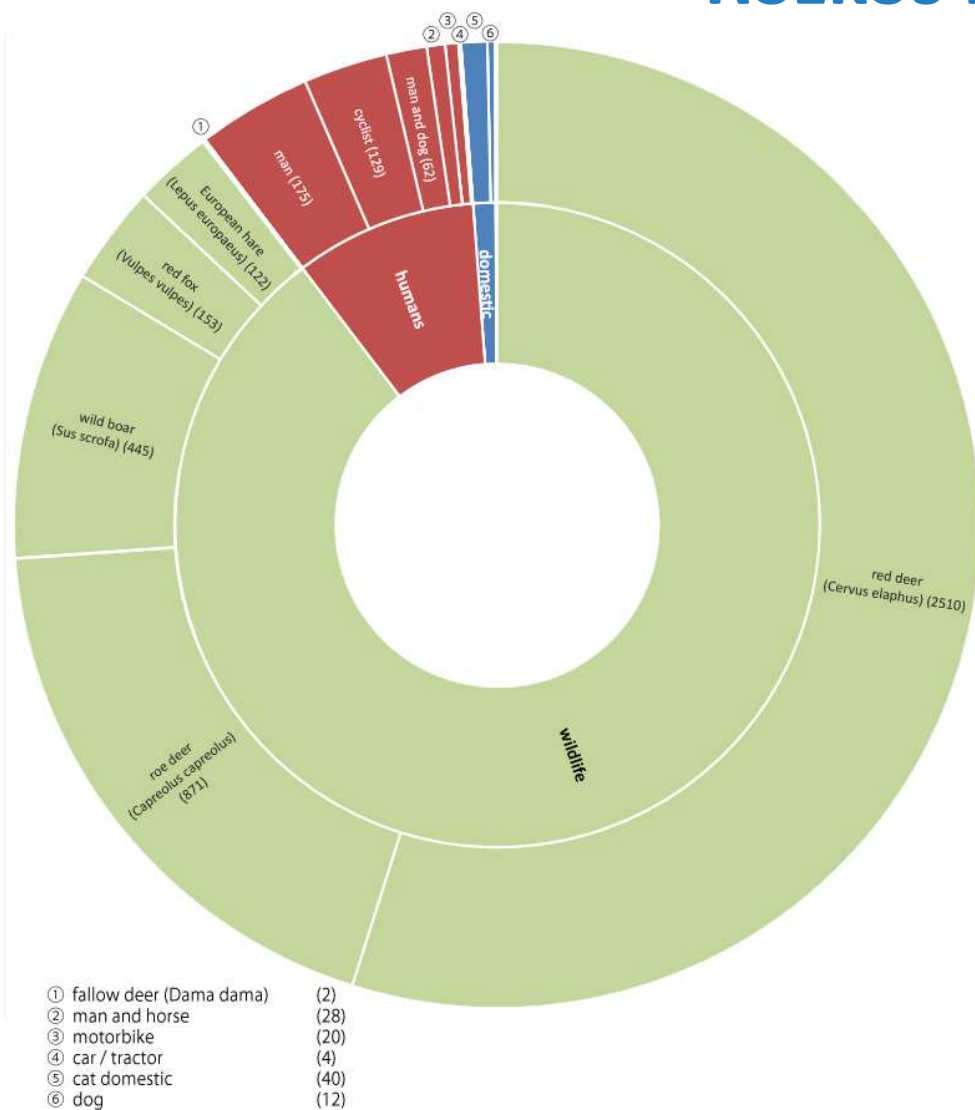
- national road I/13
- defragmentation measure – May 2023
- vehicle x wildlife collisions
- forest vs. pastures
- two trail cameras
- period: May – December 2023 (216 days)



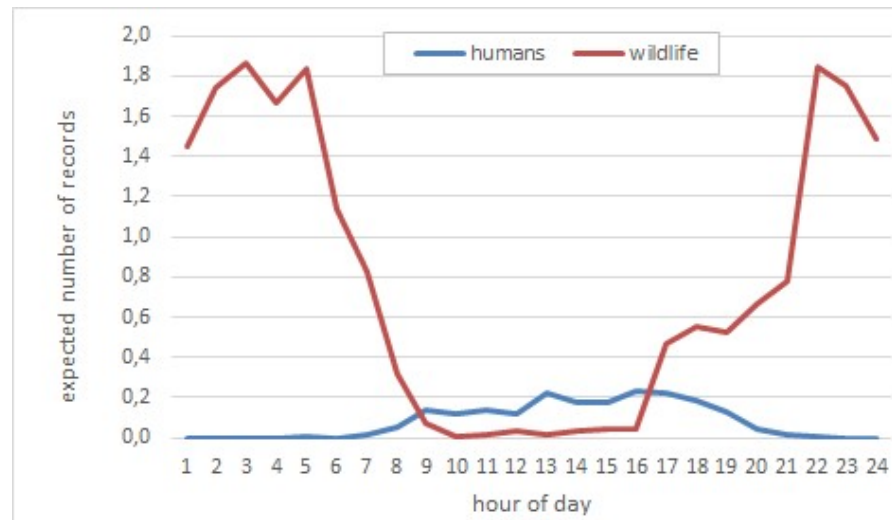




# Rozkoš results



## daily variation

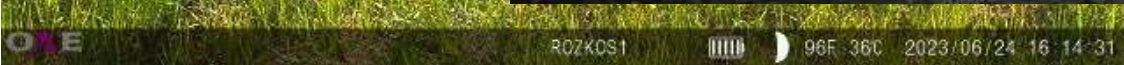


## weekly variation





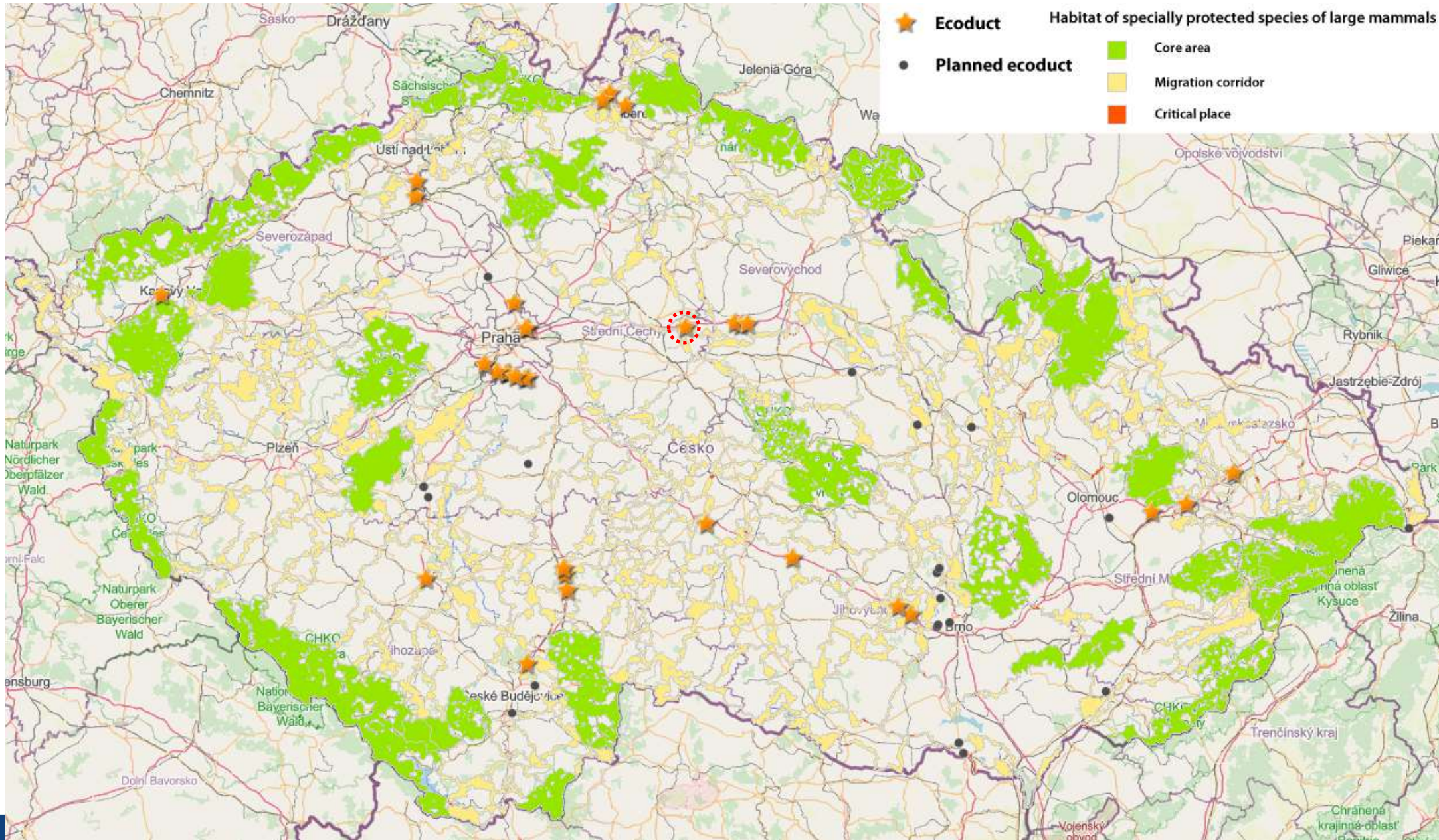
# Best of Rozkoš



OXE ROZKOS1 64F 18C 2024/04/07 19:52:05  
OXE ROZKOS1 60F 16C 2023/06/15 20:29:05  
OXE ROZKOS2 68F 20C 2023/07/02 20:44:15  
OXE ROZKOS1 96F 36C 2023/06/24 16:14:31  
OXE ROZKOS2 44F 7C 2024/04/12 05:04:34



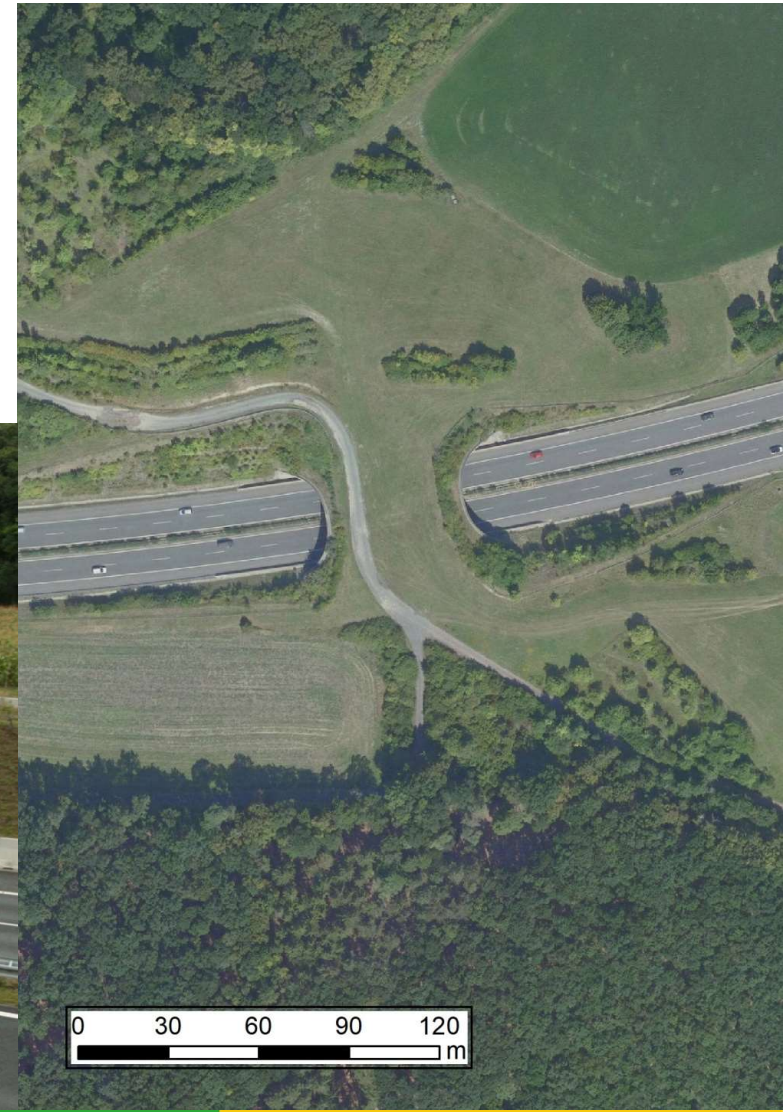






# Žehuň ecoduct

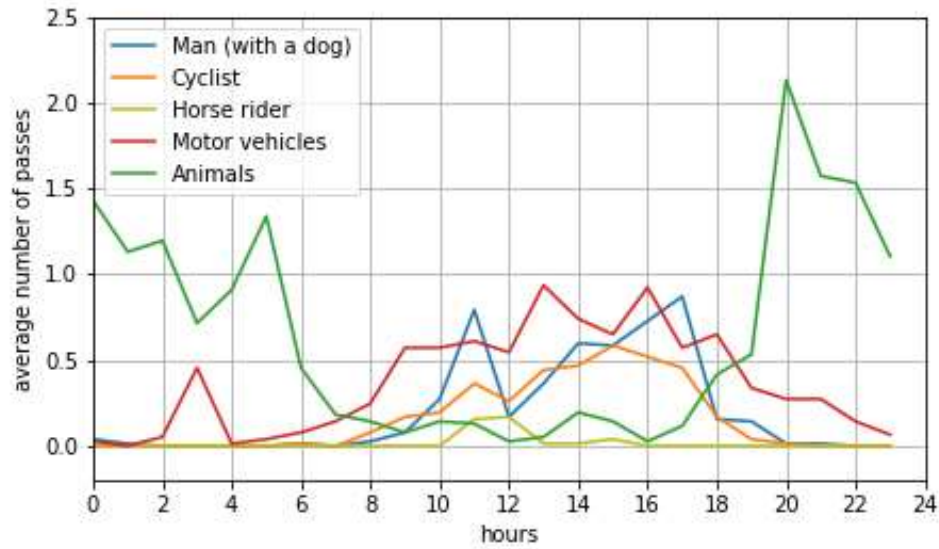
- period: February, 14th – May, 1st 2023 (76 days)
- D11 motorway
- agriculture landscape
- three trail cameras



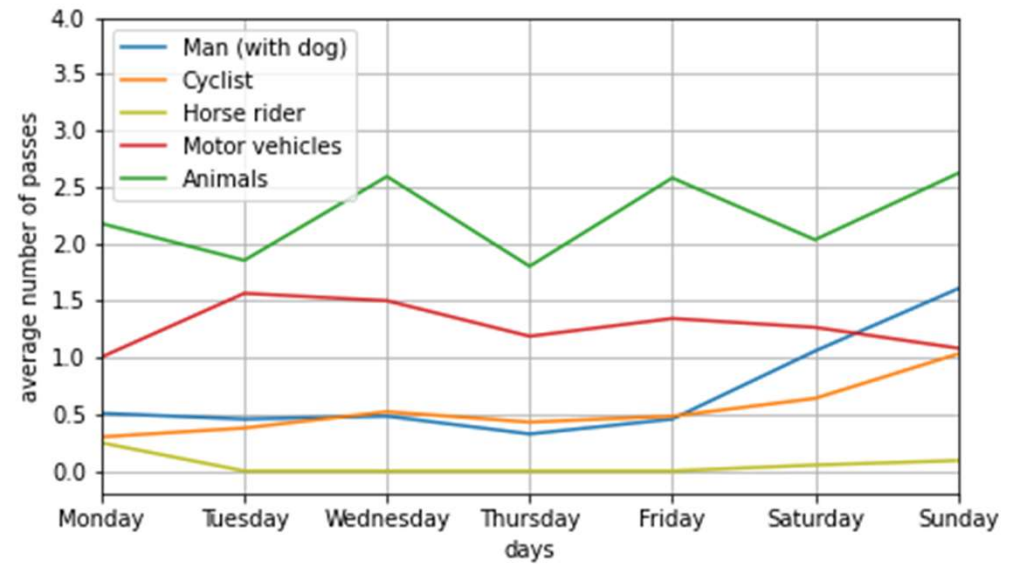


# Žehuň results

daily variation



weekly variation



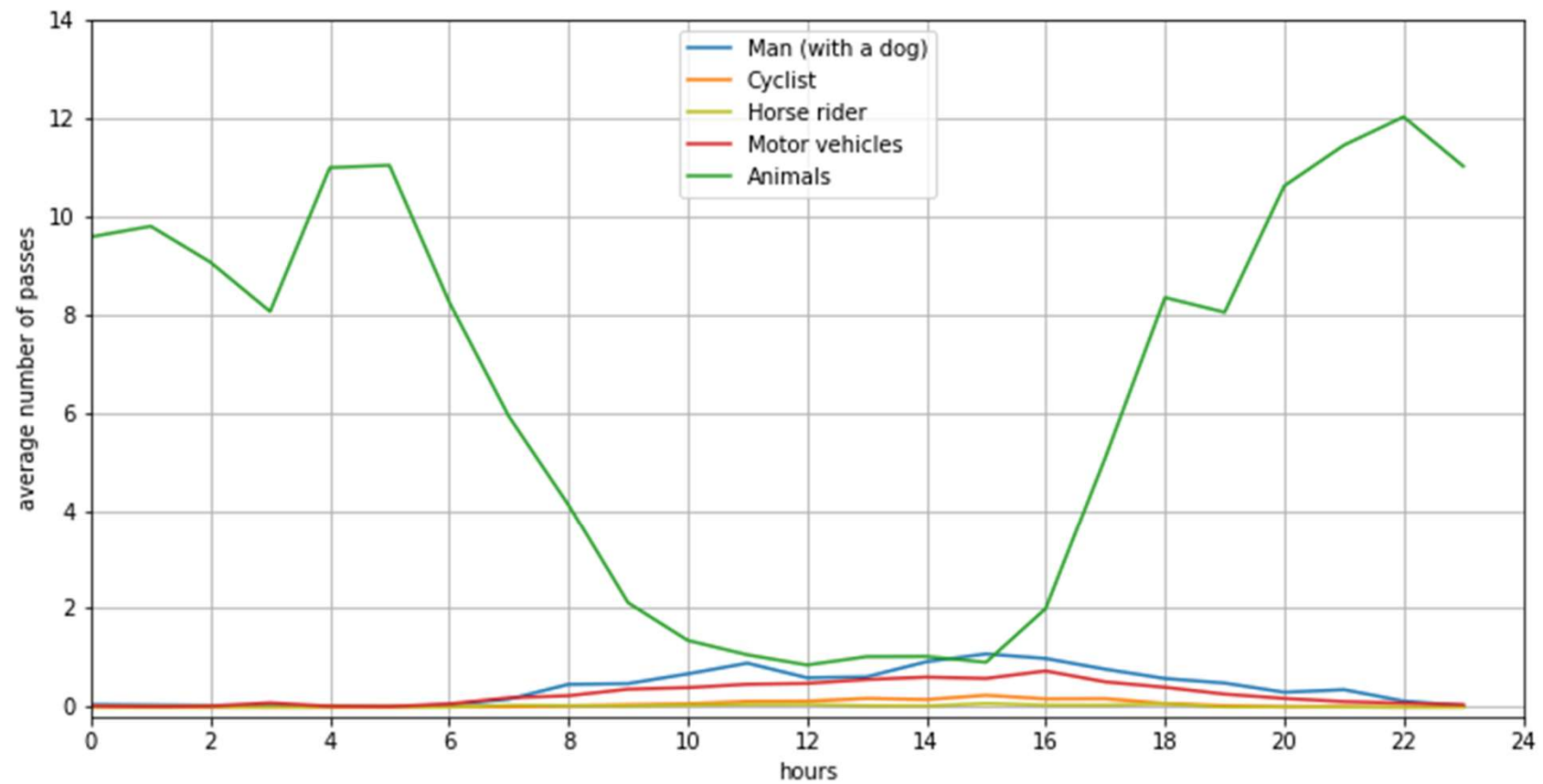


# Žehuň - end of monitoring





# Overall results – daily variation





Thanks for your attention





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