



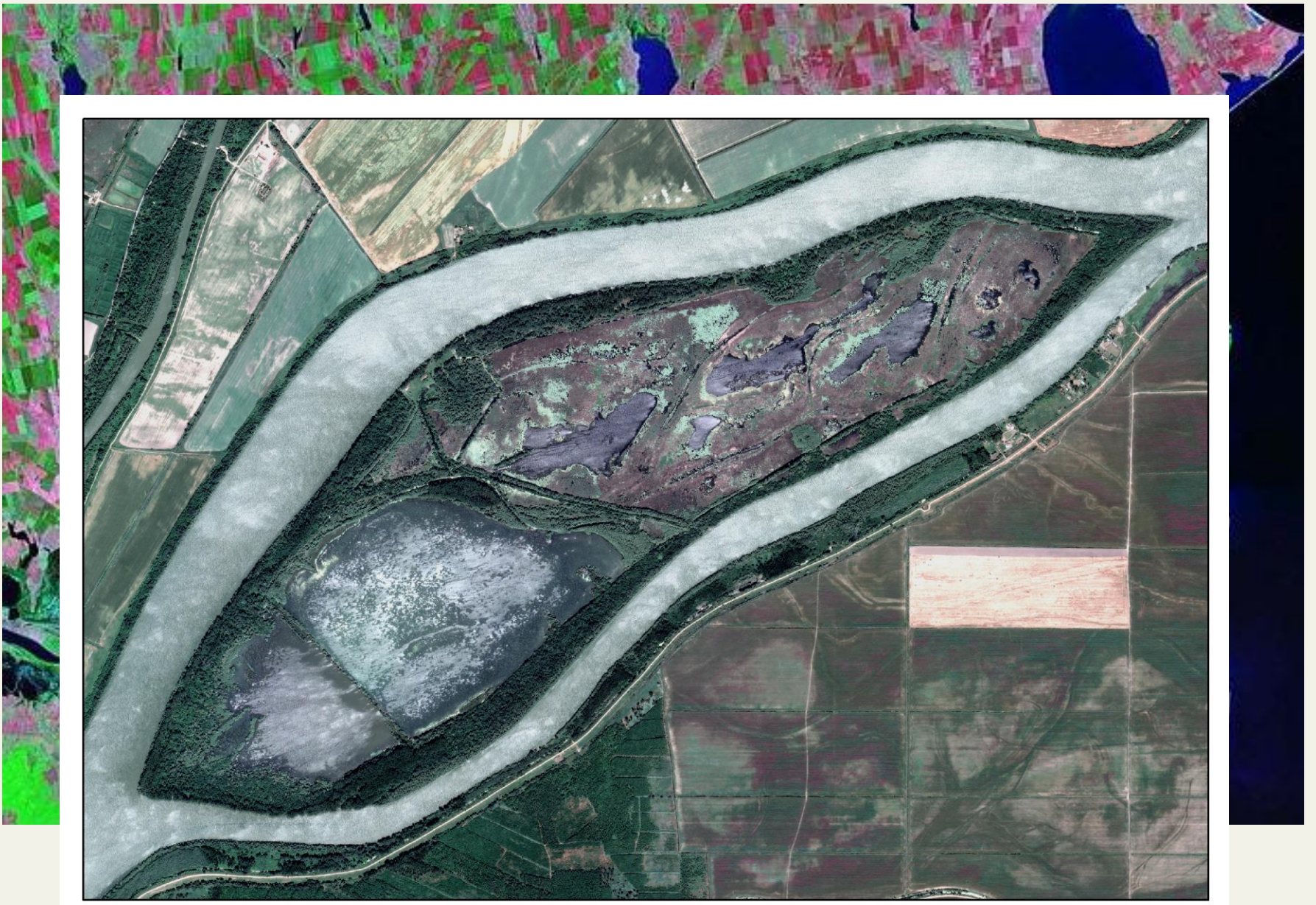
# Grazing on Malyi Tataru Island

---

26 September, 2019

Based on information collected during WWF project in Danube Delta with the support of WWF NL

Majority of the data used was collected by Sergyi Podorozhnyi (botanist from Melitopol University)



Danube Delta and many natural sites



# History of Malyi Tataru

---

Ownership - Izmail state forest enterprise

Area – 716,5 ha

1980<sup>th</sup> - embankment. Half of area used for plantations, orchards. Seasonal intensive grazing – sheep, cows, horses

1993 became part of Regional Landscape park

Middle 90<sup>th</sup> – cattle was moved from the Isle except horses

2003 – embankment partially removed

2005 – Ukrainian grey cattle was brought to the Island

2019 Introduction of water buffaloes and horses

---



**2002**



**2018**



**@ WWF Ukraine/  
Nikolai Bazhenov**



## 1999 flora of grazed areas and meadows:

---

Actively grazed areas: *Carduus acanthoides*, *Abutilon theophrastii*, *Ambrosia artemisifolia*, *Cannabis ruderalis*, *Centaurea diffusa*, *Conium maculatum*, *Cyclachaena xanthifolia*, *Marrubium praecox*.

“Leftovers” of the meadows with *Potentilla reptans*, *Trifolium fragiferum*, *Cynodon dactylon*, *Lotus corniculatus*

# + and – of intensive grazing

+

“Cleaning” of the dykes  
from the weeds and  
bushes

Management of  
*Phragmites australis*,  
*Amorpha fruticosa* та  
*Glycyrrhiza echinata*

Creating of mosaic grass  
communities

-

High pressure on grass  
communities

Weed seeds distributing

Vanishing seedlings of the  
*Salix* (gallery forest  
species)





# Why grey cattle?

- Ancient adapted breed, strong immune
- Strong feet that can tolerate wetlands
- Strong digestion system
- Strong maternity instinct
- Smart animals able to orient on the ground



# 2005

12 animals was brought to Malyi Tataru

Plan was:

People cut big trees of *Amorpha fruticosa*

Cows will manage the young plants and  
reed and create mosaic landscape

# 2006 first check

Max pressure on the meadows grass communities was exceeded in 2 times

So,

plants, that are not eaten by the cattle actively grow (*Bidens tripartite*, *Glycyrrhiza echinata*, *Xanthium* ). It forms dense grass areas that decrease values of the grass community.

# Overgrazed area



2006



# 2018

- Dams and other areas overgrown with trees and bushes like *Gleditsia triacanthos*
- Dams are not accessible for people in some places
- As the results 2/3 of the meadows were lost

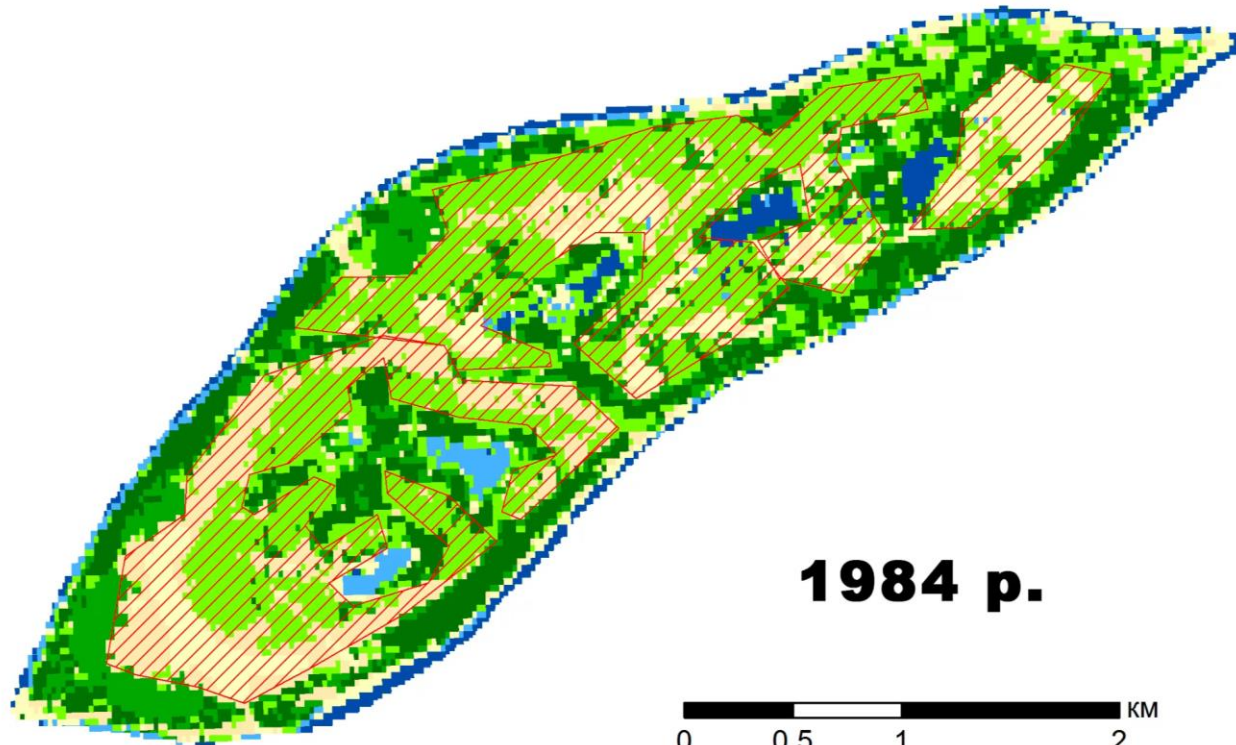
# 2018

- 35 cows, no horses
- Some of the dams were separated due to tourists visits



2006 p.

2018 p.



Dark blue	Submerged & free-floating macrophytes
Blue	Floating-leaved macrophytes
Light green	Tall grass helophytes (Phragmition)
Dark green	Gallery forest and poplar plantations
Green	Shrublands (Salicion triandrae)
Yellow	Terrestrial pioneer species and degraded land
Caramel	Formed terrestrial species
Grey	Freshwater pioneer species
Red	Areas actively used for agriculture









(C) WWF / NIKOLAY BAZHANOV

# What is next? Expert suggestions:

- Make sure the whole island is opened for cattle
- Bring several new animals to improve the herd of cows
- Introduce water buffalos
- Start management of grey cattle (vaccination, providing food and salt etc)
- Use combine herds of sheep and goats to manage *Gleditsia triacanthos* (new plants)



# What is going on:

## 2019 Rewilding Ukraine

- brought two bulls of Hungarian grey cows
- introduced water buffalos
- Ukraine introduced Polskyi horses