

HuBMS 2016-

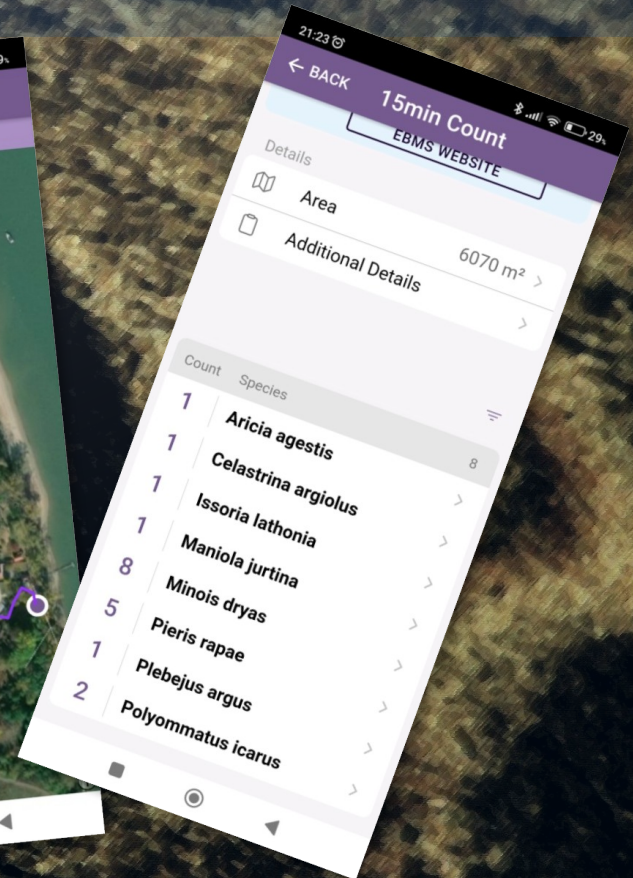
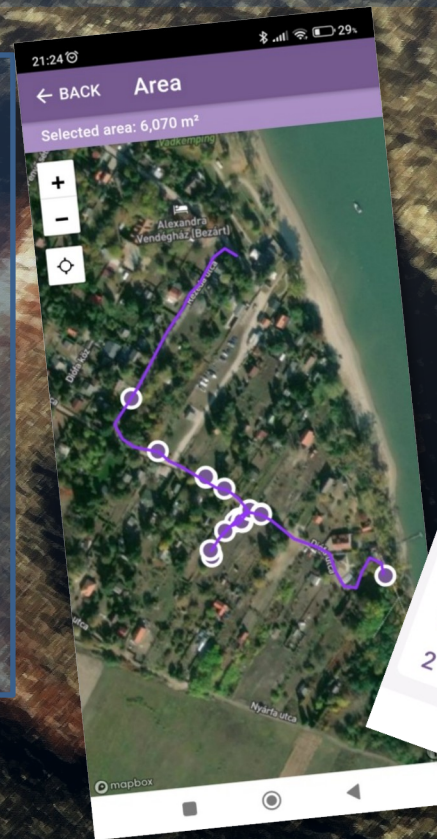
» HuBMS

» Transects

» 15-minute Counts

► general

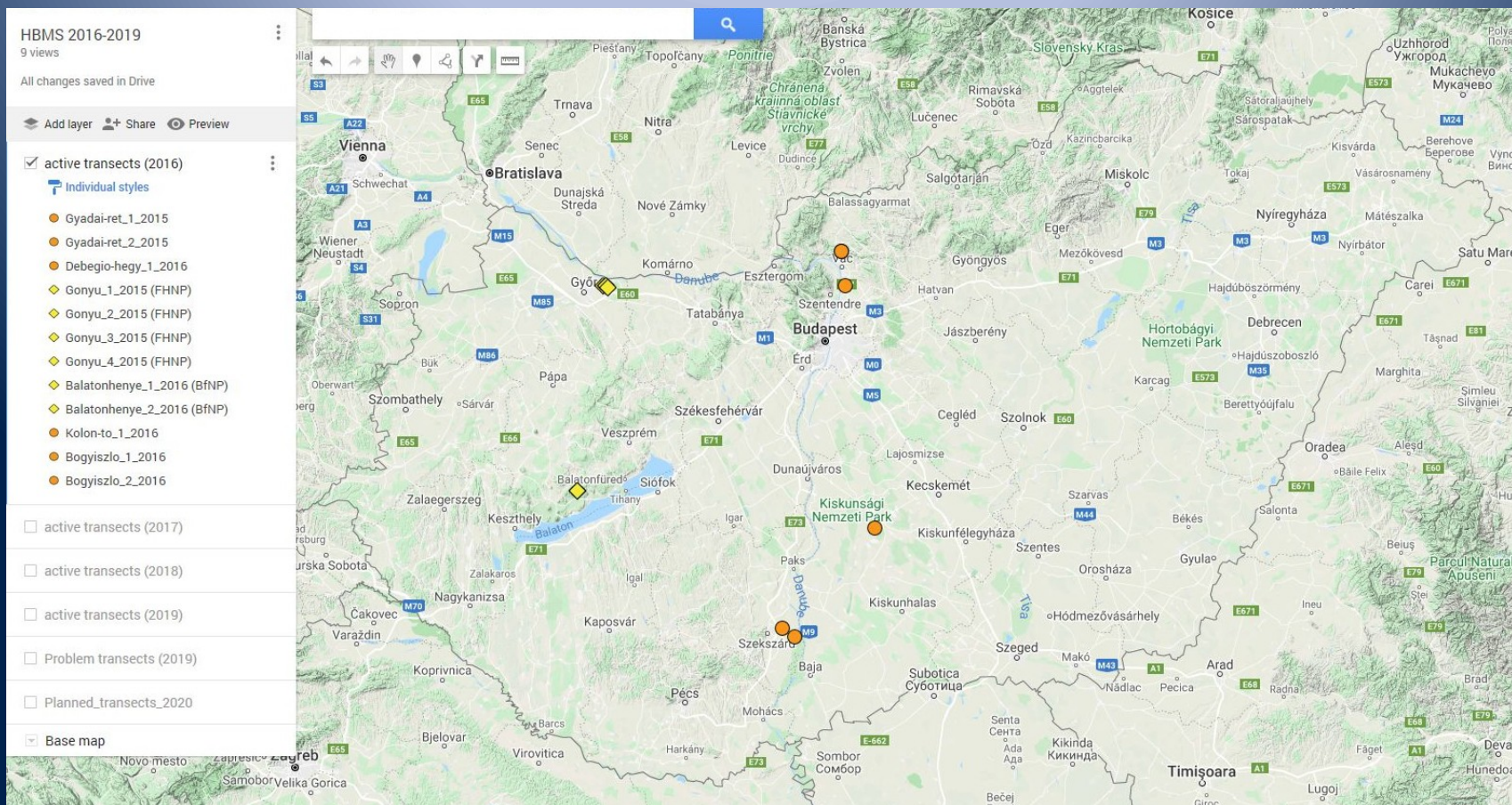
► 1-species



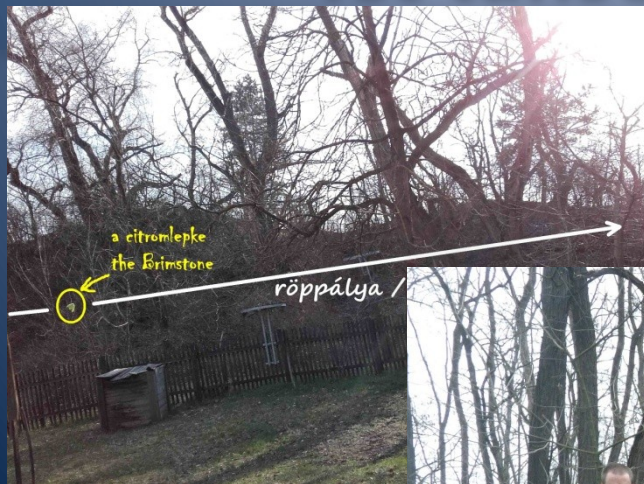
Laufen Dec 4, 2025

András Szabadfalvi

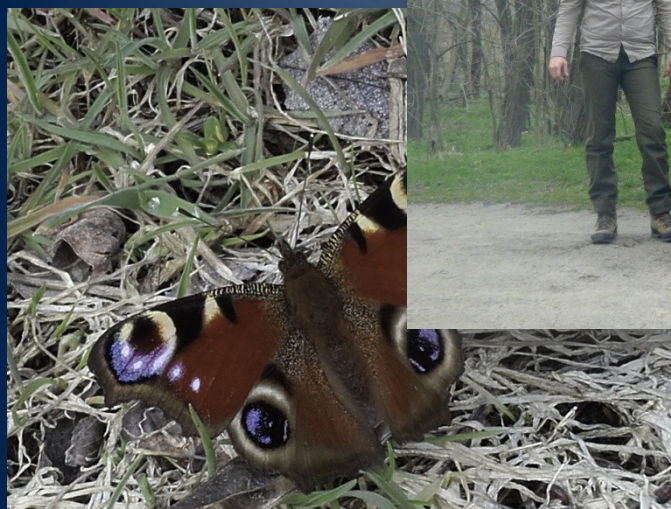
How it began... Transects in 2016



1st transect workshop in 2018



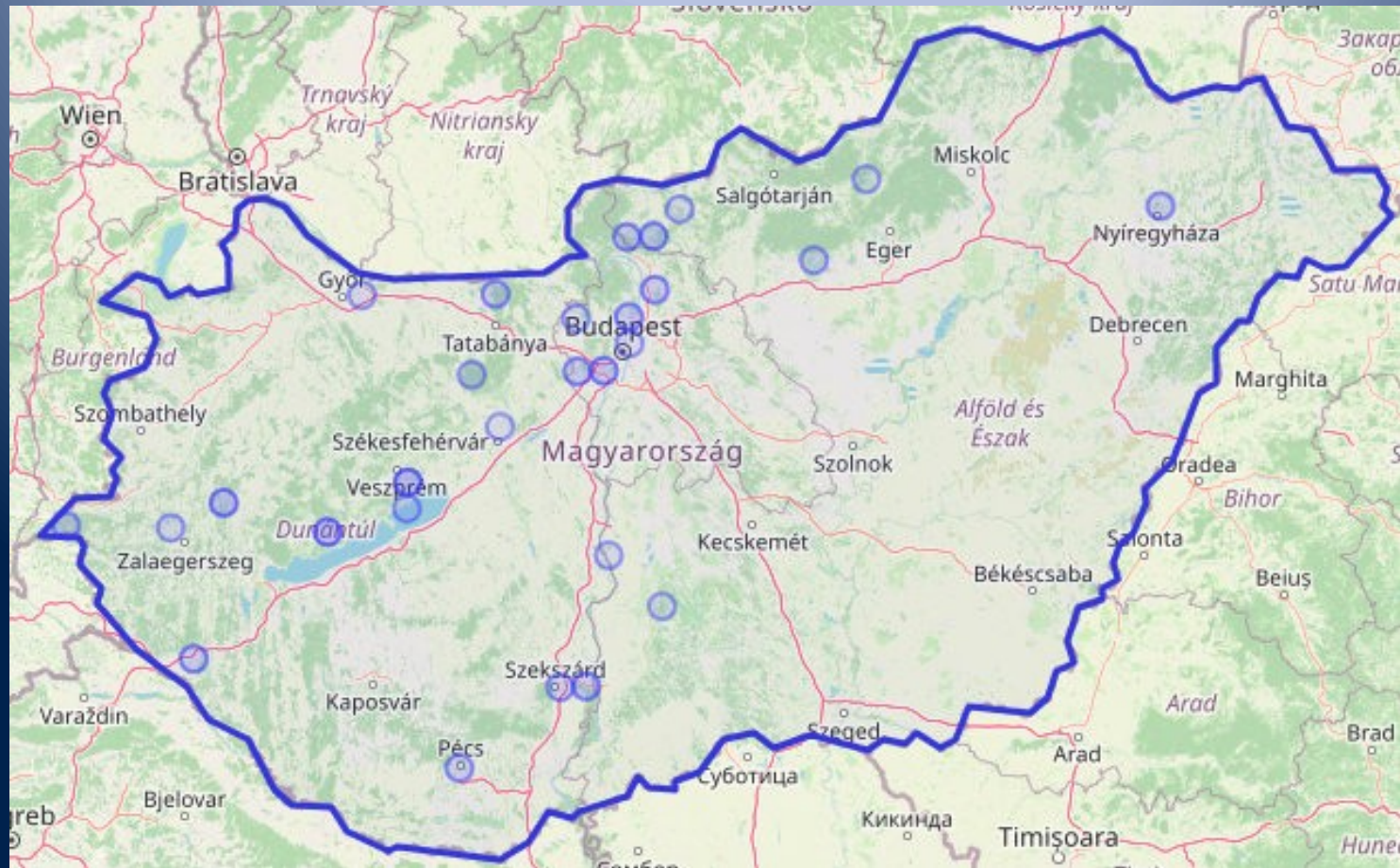
**Lake Kolon, KNP,
Mar 30-31, 2018**



EPIC + transect workshop in 2025



Transects 2016-2025



No. of general transects: 25+ (National Parks 8) + target sp. transects 4+

Diverse range of habitats

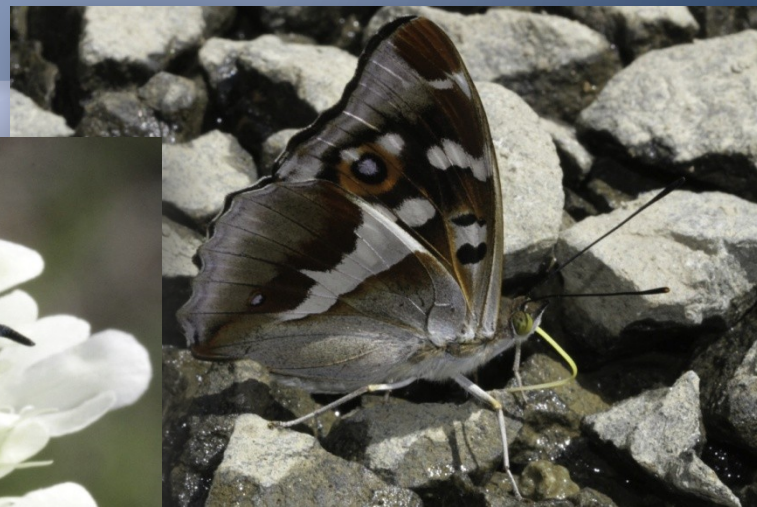


Pannonian sand steppes, mesophyllous grasslands, fen meadows, xerophyllous oak forests etc.

Fun facts...

- longest transect: Gyadai-ret_1 (2,015 m);
- shortest transect: Batyk_3 (210 m);
- max. no. of spp. / transect: >30 spp.
(Gyadai-ret_1, Gyadai-ret_2,
Balatonhenye_1);
- max. no. of spp. / section: >20 spp.
(Gyadai-ret_2, Balatonhenye_1);

Results

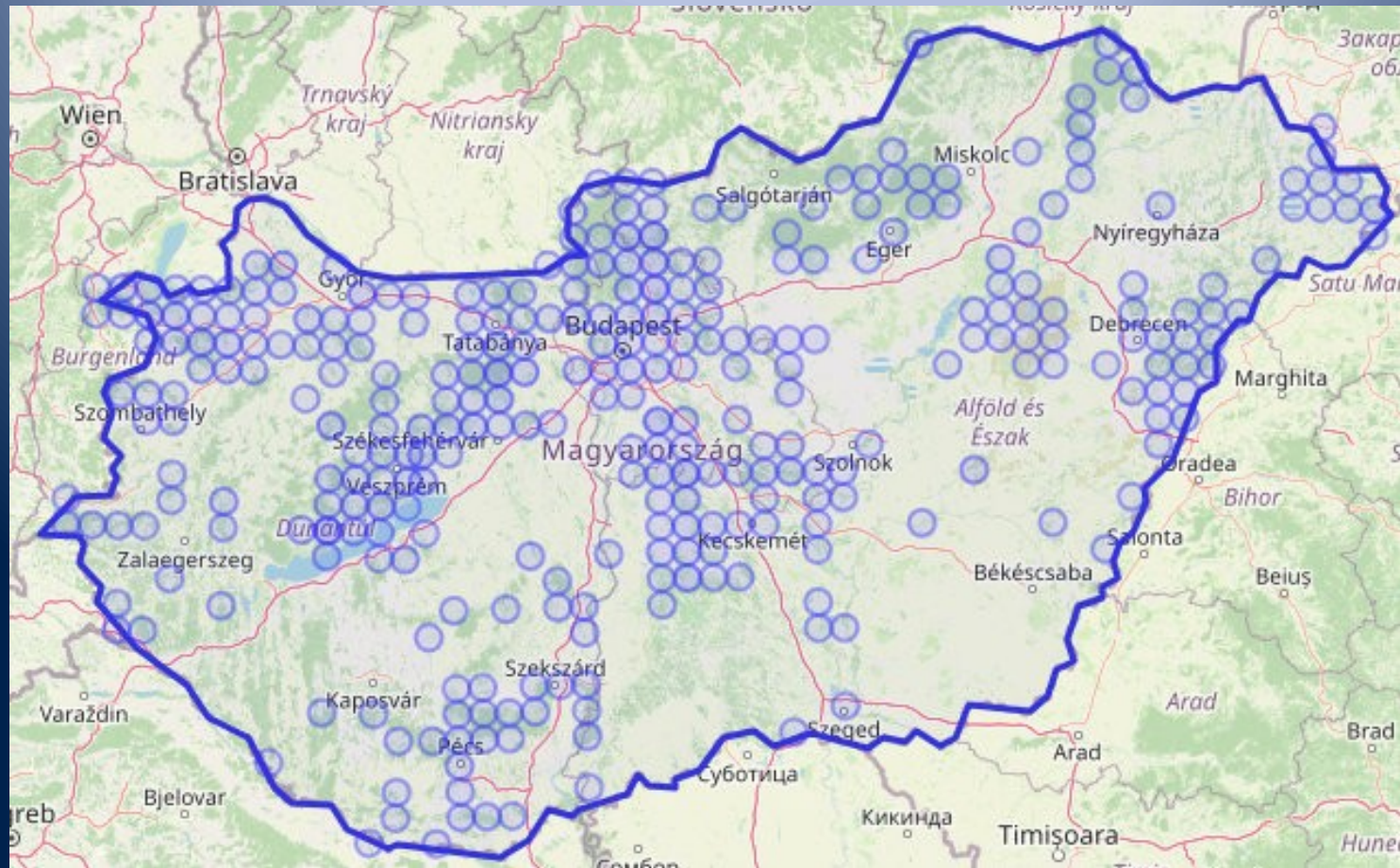


Introduction of the Butterfly Count App +15 minute counts in 2019 >> big potential

- **engaging more volunteers** for monitoring (Citizen Science)
- **monitoring „less interesting” but important habitats** (agricultural land: arable land, vineyards, orchards etc.)
- **urban habitats** (gardens, parks)
- **Article 17 monitoring protocol**
- **„snaphots”** (many surveyors in paralel within a short time doing general/1-sp. counts covering a larger area)
- **using the method for certain moth spp.** (*E. ankeraria*, *G. borelii*, *C. thrips*, *E. catax*)

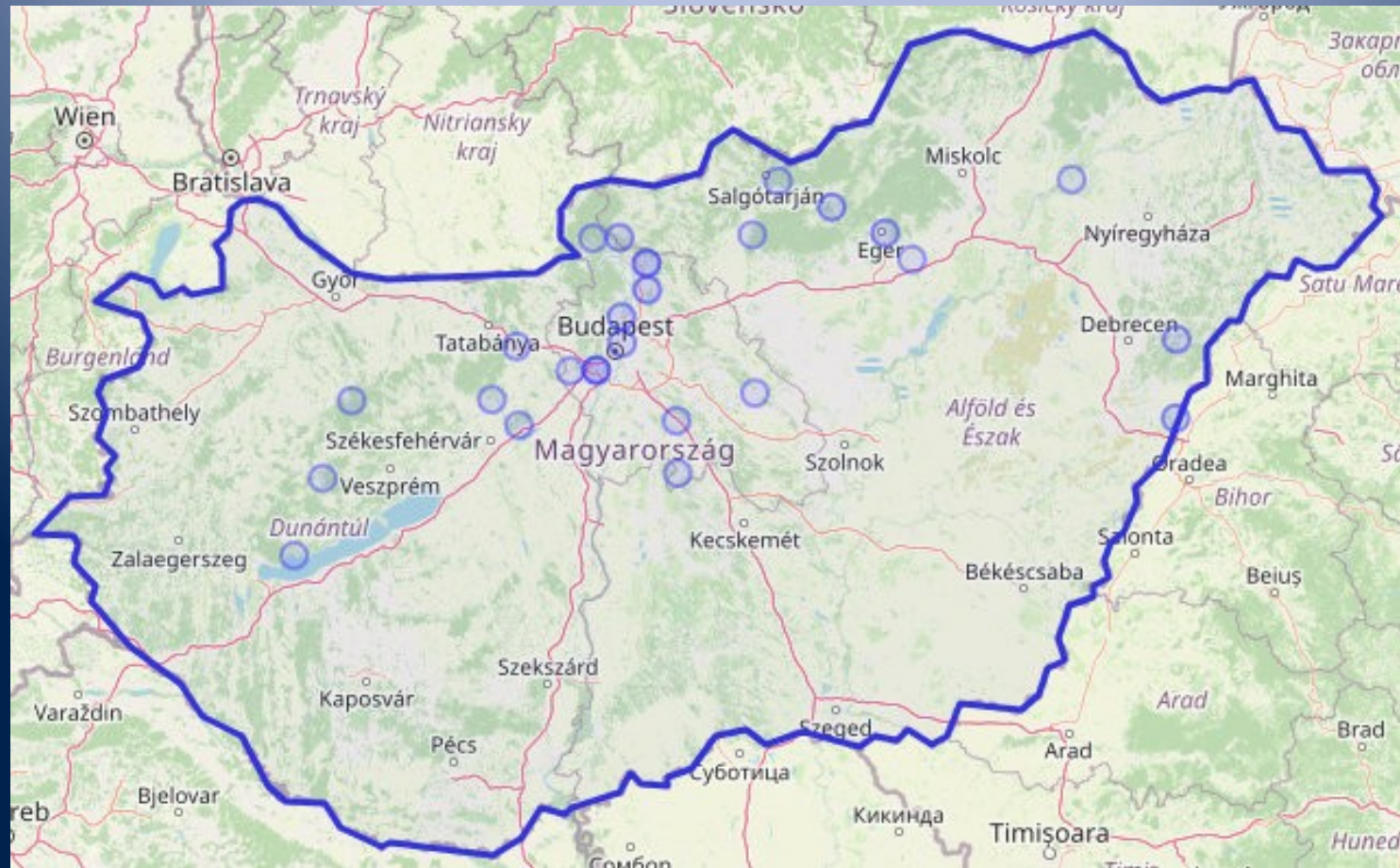


15 minute counts 2016-2025



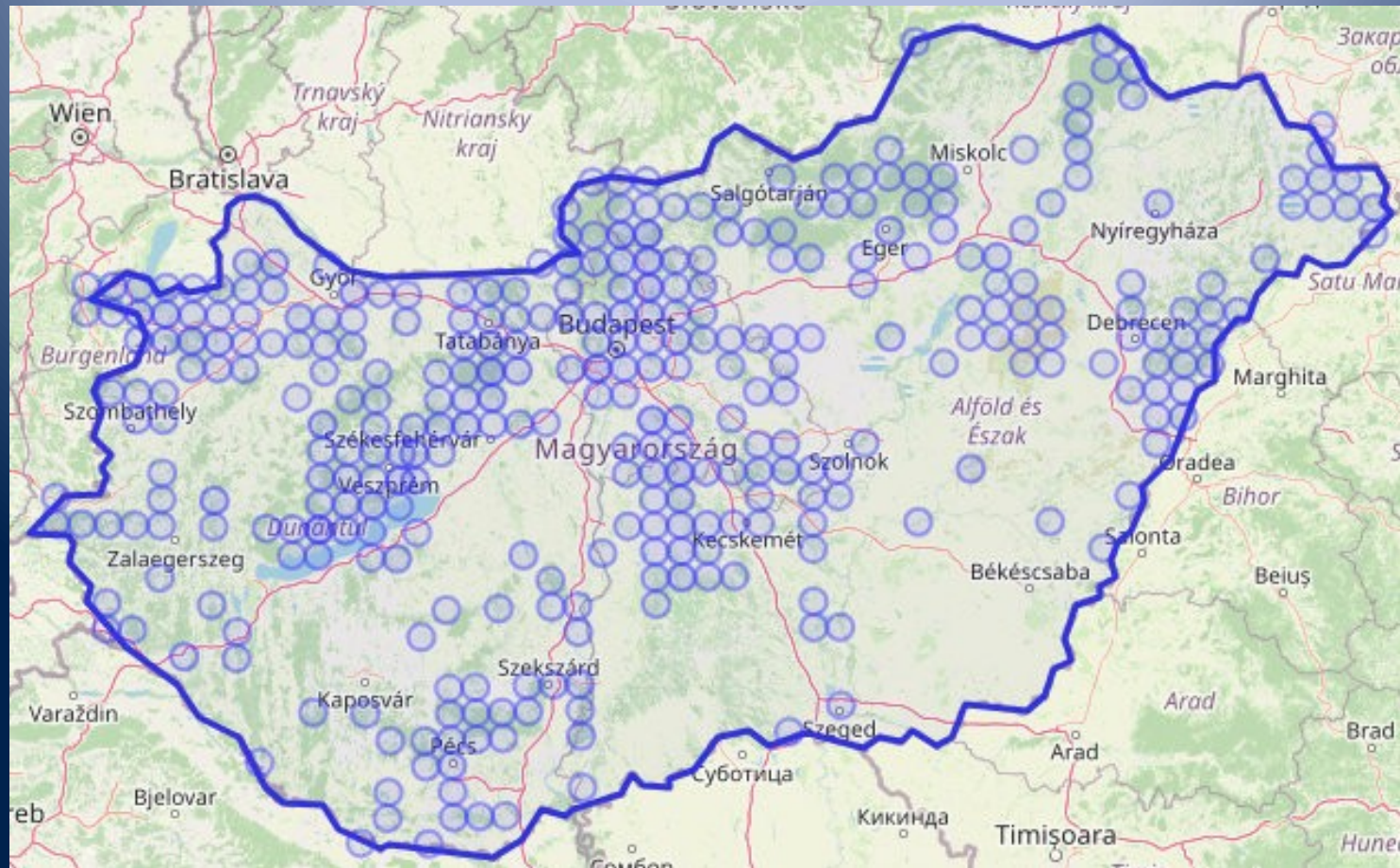
139 butterfly spp.; 248 moth spp. (until Apr 6, 2024)

Moth traps 2016-2025



***SPRING 2022-2023: 10 x 5 traps +
volunteers (porch lights, portable traps, etc.)***

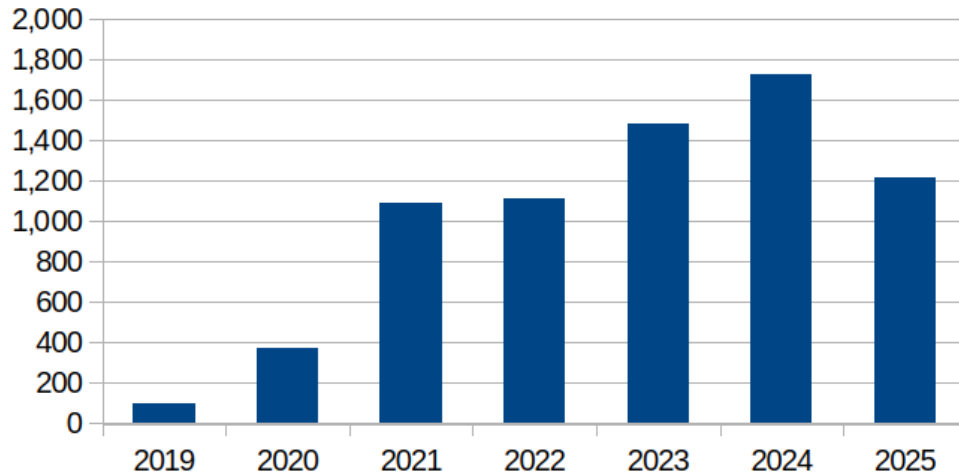
Total samples 2016-2025



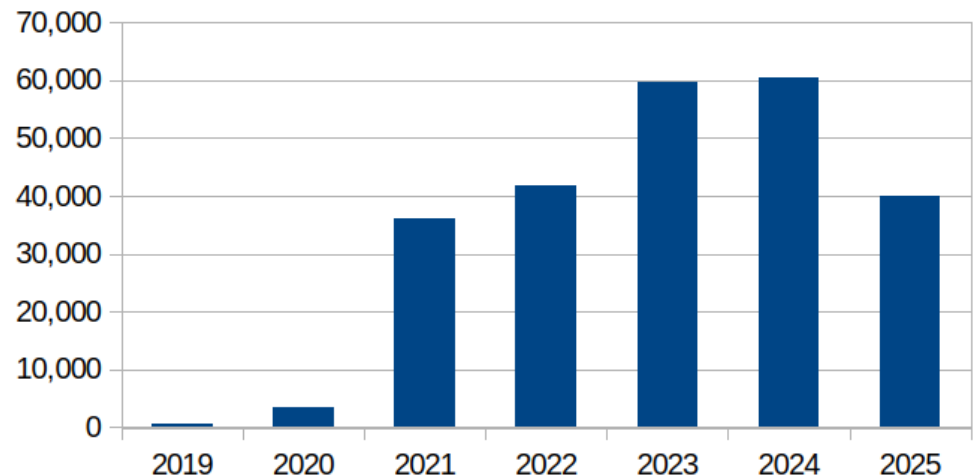
Transects + 15 minute counts + Moth traps

Everyone counts...

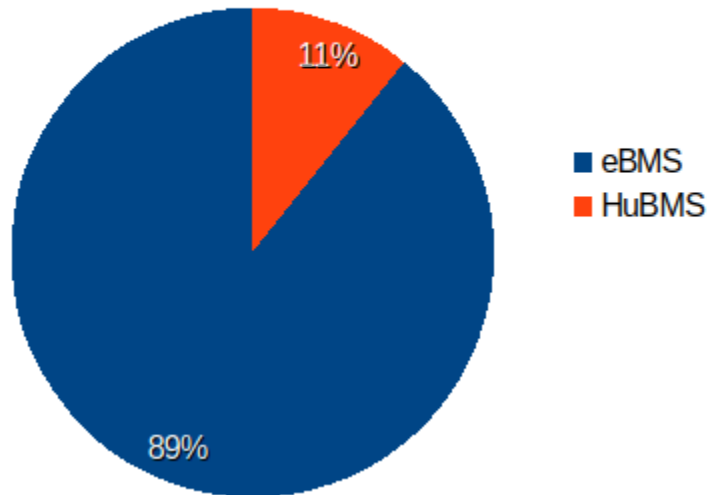
General 15-min Count Samples by year (HuBMS)



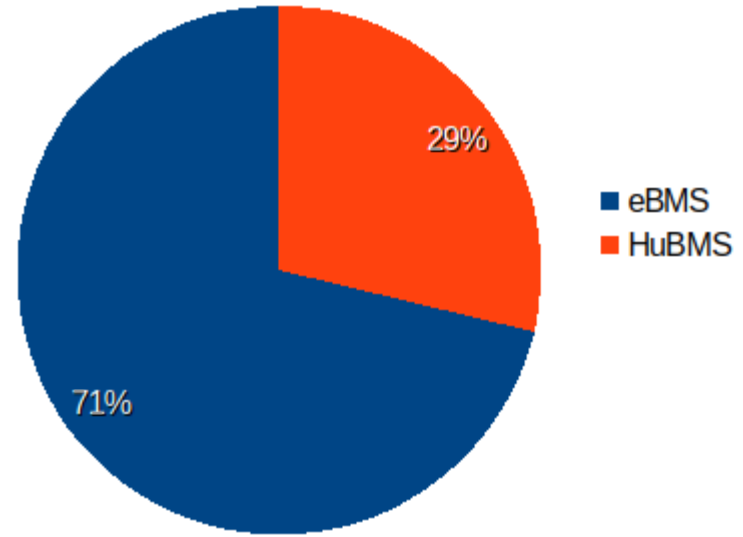
General 15-min Count Occurrences by year (HuBMS)



15-min count Samples

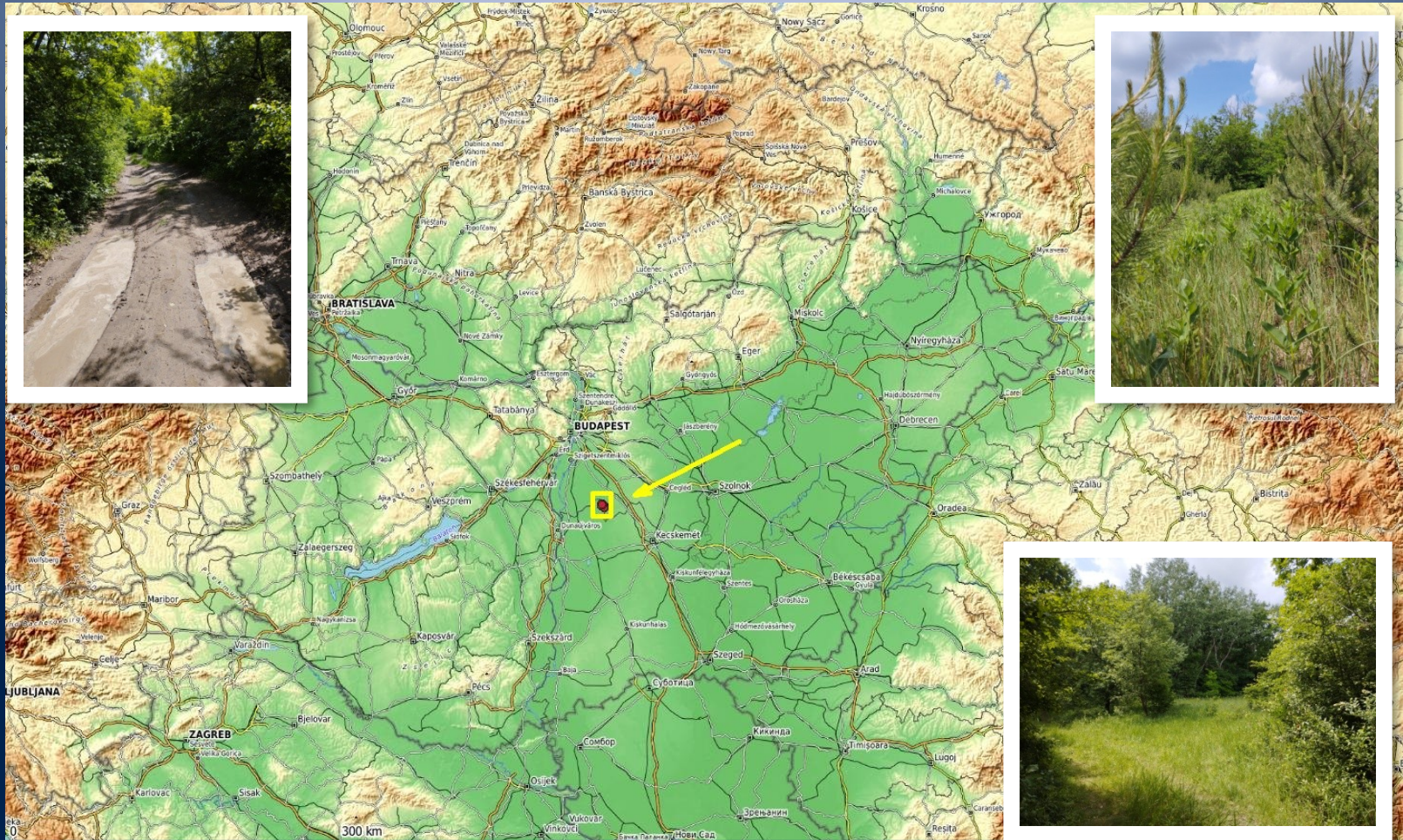


15-min count Occurrences



	eBMS	HuBMS
samples	68,586	7,409
occurrences	849,484	243,957

„Snapshots” : *E. maturna* - Kunpeszér



Famous site, still ongoing MRR study

„Snapshots” : *E. maturna* - Kunpeszér



Accepted species name	Common name	Count
1 <i>Anthracaris cardamines</i>	Orange-tip	26
2 <i>Aporia crataegi</i>	Black-veined White	11
3 <i>Argynnis pandora</i>	Cardinal	2
4 <i>Boloria dia</i>	Weaver's Fritillary	1
5 <i>Coenonympha glycerion</i>	Chestnut Heath	24
6 <i>Coenonympha pamphilus</i>	Small Heath	9
7 <i>Erynnis tages</i>	Dingy Skipper	2
8 <i>Euphydryas maturna</i>	Scarce Fritillary	33
9 <i>Fabriciana niobe</i>	Niobe Fritillary	6
10 <i>Glaucopsyche alexis</i>	Green-under-side Blue	1
11 <i>Gonepteryx rhamni</i>	Brimstone	1
12 <i>Issoria lathonia</i>	Queen of Spain Fritillary	104
13 <i>Lasioommata megera</i>	Large Wall Brown	39
14 <i>Lasioommata megera</i>	Wall Brown	17
15 <i>Lycaena tityrus</i>	Sooty Copper	3
16 <i>Lysandra bellargus</i>	Adonis Blue	5
17 <i>Maniola jurtina</i>	Meadow Brown	13
18 <i>Melitaea cinxia</i>	Glanville Fritillary	1
19 <i>Melitaea phoebe</i>	Knapweed Fritillary	4
20 <i>Melitaea trivia</i>	Lesser Spotted Fritillary	1
21 <i>Neptis sappho</i>	Common Glider	11
22 <i>Ochlodes sylvanus</i>	Large Skipper	12
23 <i>Pararge aegeria</i>	Speckled Wood	6
24 <i>Pieris napi</i>	Green-veined White	22
25 <i>Plebejus argus</i>	Silver-studded Blue	215
26 <i>Polyommatus icarus</i>	Common Blue	11
27 <i>Pontia edusa</i>	Eastern Bath White	10
28 <i>Pygus carthami</i>	Safflower Skipper	1
29 <i>Pygus malvae</i>	Grizzled Skipper	1
30 <i>Satyrus pruni</i>	Black Hairstreak	2
31 <i>Scolitantides orion</i>	Chequered Blue	1
32 <i>Vanessa atalanta</i>	Red Admiral	2
33 <i>Vanessa cardui</i>	Painted Lady	5

May 26, 2022 : 1 pers, 4 hrs, *E. maturna* occurrence = 33

„Pillanatfelvételek” : *E. maturna* - Kunpeszér

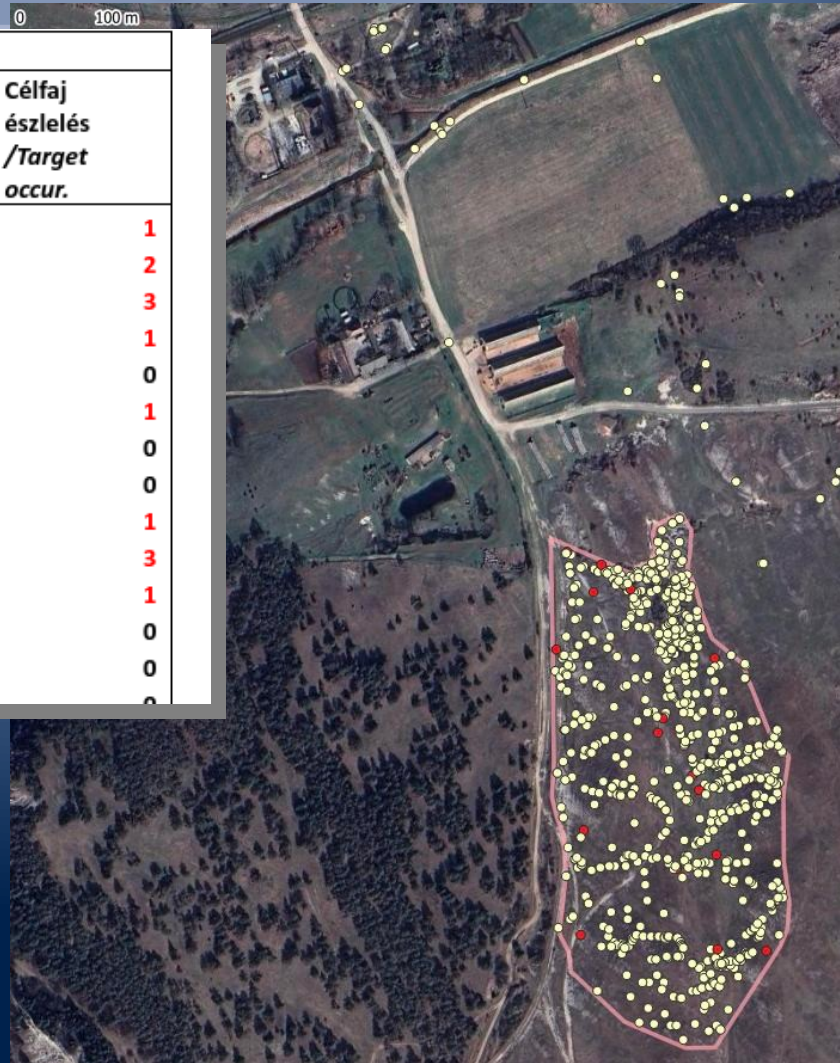


Jun 4, 2022 : 11 pers, in pairs, 2hrs, samples > 40
gen. 15 min counts (after the peak flight period >> not many *maturna*)

Article 17 spp monitoring – *C. chrysotheme*

0100m

NBmR chrysotheme: Hajmáskér - célzott mintavételek					
	Mintavétel dátuma /Date of sampling	Sorsz /No.	közép. GPS koord. /centroid GPS coord.	mintater. (m2) /area sampled	Célfaj észlelés /Target occur.
1	2025.04.23	1.	47.13488 18.00656	2,404	1
2		2.	47.13297 18.00696	3,295	2
3		3.	47.13417 18.00737	3,471	3
4	2025.04.30	1.	47.13391 18.00652	3,273	1
5		2.	47.13287 18.00709	3,401	0
6		3.	47.13489 18.00714	3,221	1
7	2025.05.10	1.	47.13504 18.00668	2,913	0
8		2.	47.13348 18.00655	3,575	0
9		3.	47.13345 18.00762	3,022	1
10	2025.08.08	1.	47.13419 18.00643	3,637	3
11		2.	47.13405 18.00744	3,377	1
12	2025.08.29	1.	47.13431 18.0064	3,201	0
13				3,731	0
14				3,775	0



Thank you! 😊



Because...



...we need a team