# **Poland in Spring**

# Naturetrek Tour Report

13th - 20th May 2023





Citrine Wagtail

Elk





Map

Water Violet

Tour report and images by Luca Boscain



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# Day 1

Saturday 13th May

Warsaw airport, Dojlidy fishponds and Narewka

We landed 10 minutes ahead of schedule, then it took a good half an hour to go through the passport controls and the baggage claim and we found Tomasz and Luca, our tour leaders, outside the arrivals gate.

Our driver, Yarek, was waiting outside the airport with a comfortable minibus. We drove for two hours, before having a break for lunch, leaving Warsaw and following first the Vistula western riverside, seeing Hooded Crow and Common Swift. Then we had White Storks, Black Woodpecker, a couple of male Marsh Harrier and Roe Deer, all spotted while just driving along the motorway, with an amazing succession of wildlife, punctually called by Tomasz into the microphone.

We arrived after 1 pm in Białystok, where we had an a-la-carte lunch in a small restaurant. After that, we visited for a few minutes Dojlidy fishponds. Being Saturday, one side was busy with people enjoying the heat and the sunshine, while where we went it was definitely birding terrain. We had a loop around solid banks among reed beds and freshwater lakes. It was still a bit early in the season for the big chorus of warblers, but we still heard a few Common Reed, Great Reed, Sedge, Savi's and Willow Warblers plus Lesser Whitethroat and Chiffchaff. Amphibians were providing a picturesque background to the soundtrack, with tens of Fire-bellied Toads (Bombina bombina), Pool (Pelophylax lessonae) and Edible Frogs (Pelophylax esculentus). Other songs were Bittern, Thrush Nightingale, Bearded Reedlings and Penduline Tits, of which Tomasz managed to find a nest. In the water were floating Coots, Great Crested and Red-necked Grebes, Black-headed Gulls, Pochards and a pair of Goldeneyes, while in the sky we saw Common and Whiskered Terns.

The commonest damselfly was the Siberian Winter (Sympecma paedisca), but we noticed also Variable Damselfly (Coenagrion pulchellum), Four-spotted Chaser (Libellula quadrimaculata) and Downy Emerald (Cordulia aenea). We spent some time trying to get a flight shot of three or four Great Reed Warblers chasing each other in the Broadleaf Cattails (Typha latifolia), but with poor results.

From the Dojlidy lakes, we drove a good hour through groves, meadows and cultivated fields, hoping for Bison on each corner, but we were not lucky. The best we had was a Whooper Swan on its nest. We arrived at our hotel in Narewka, just on the edge of the Bialowieża forest, after 7 pm, so we had time for a shower before a beautiful supper, with a cauliflower and cheese soup, followed by pork ham in boletus sauce and an apple cake.

A few people followed finally Luca on a short night walk to the Narewka: Grasshopper Warbler and Corn Crakes were singing, but the highlight were a couple of sightings of Beavers (*Castor fiber*), decently visible in the light of the torch.

#### Day 2

# Sunday 14th May

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#### Białowieża Forest

At 4.45 am we met for a quick coffee and we left at 5.00, looking for Bison and other mammals. In the dawn, with the first golden sunshine, the grassy open areas had a fascinating mist from with emerged several White Storks. We visited a number of meadows and clearings on the northern edge of the Bialowieża forest, seeing Roe and Red Deer, but no Bison. Luckily birds were awake, with a concert of Skylarks, Whinchats, Cuckoos, Yellowhammers, Whitethroats, etc. The best sightings were Red-backed and Great Grey Shrike, Crested Tit, Montagu's Harrier and a wonderful Lesser Spotted Eagle that flew in front of a tower, going to perch on a Bison feeder roof, clearly visible in the telescopes.

We came back to the hotel at 8 o'clock for a sumptuous breakfast, to recuperate energies for the day. Later we drove south, spotting an Camberwell Beauty (Nymphalis antiopa) from the minibus, and we went to walk in the Bialowieża Forest from the hamlet of Budy. We hadn't even the time to get out from the vehicle before we heard the first male Collared Flycatcher of the day: it will be the soundtrack of all our day in the ancient woodlands. The undergrowth was rich in flowers of Spotted Deadnettle (Lamium maculatum), Yellow Archangel (Lamiastrum galeobdolon), Sweet Woodruff (Galium odoratum), Greater Stitchwort (Rabelera holostea) and Bulbous Bittercress (Cardamine bulbifera).

We reached a strip where the rise of the water level in the terrain has caused the death of tens of trees, making it a paradise for woodpeckers: we soon saw, in fact, Black, Lesser Spotted and White-backed Woodpecker. On a patch of Woolly Buttercup (Ranunculus lanuginosus), was perched a lovely first generation Map Butterfly (Araschnia levana), but also several Small Yellow Underwing Moths (Panemeria tenebrata).

Again in the depth of the forest, we found a pair of nice Red-breasted Flycatchers that showed well their orange throat and the white sides of the tail.

In the streams and the pools on the path side there were Pool, Edible and Common Frogs (Rana temporaria), sometimes perching on logs, sometimes hiding in the grass.

For lunch, we transferred to the village that gives the name of the forest, Bialowieża. Being Sunday, the park of the former hunting palace was particularly crowded, but it was still worthwhile to have our picnic lunch there because a Marsh Harrier, a few Great Reed Warblers and a pair of Rosefiches came to visit us from the surrounding pond.

After a break at the visitor centre facilities, we continued walking through the palace park, stopping here and there for Wood Warbler, Firecrest and Middle Spotted Woodpecker and to hear Wryneck and Green Woodpecker.

Later we met Irek and Asia, who welcomed us to the restricted part of the Białowieża Forest, while a bird of prey came in flight, going to perch on a post. The scope view revealed a wonderful Lesser Spotted Eagle that, enjoying the sunshine, decided to open its wings, showing the distinctive pale coverts, and preening its plumage, all in front of our eyes. We had to split into two smaller groups and we entered through a lavish wooden gate and we had a four km loop among possibly the best preserved patch of lowland primeval forest left in Europe. Some of the

trees were huge, exceeding 40 metres in height, including centenary Pendunculate Oaks (*Quercus robur*), Small-leaved Limes (*Tilia cordata*), Norway Spruces (*Picea abies*), Norway Maples (*Acer platanoides*), Ashes (*Fraxinus excelsior*) and a few Scots Pines (*Pinus sylvestris*), a tree that needs fire to regenerate without the competition of other trees. Every hundred metres was singing a pair of Collared Flycatchers, while we could locate at least four nests of Great Spotted Woodpeckers, with loud chicks inside, and two Red Squirrels (*Sciurus vulgaris*). The best surprise was a Tawny Owl, mobbed by tits, that the second group managed to get in the telescope. The trail went through a rich undergrowth with the last Spring Vetchlings (*Lathyrus vernus*) and Early Dog-violets (*Viola reichenbachiana*) in flower of the season, but also carpets of Ramsons (*Allium ursinum*). Walking back to the minibus, in a wide grassland we added Whinchats, Meadow Pipit and a singing Corn Bunting, before returning to the hotel at about 7 pm.

The supper offered a wiener schnitzel, then we had a very long listing time that included the two past days. When we came out, Tree Frogs (*Hyla arborea*) were croaking.

Day 3 Monday 15th May

#### Białowieża Forest and Siemianówka Lake

We met once again very early in the morning and it was worthwhile, because we had soon two huge bulls of European Bison (*Bison bonasus*), in Teremiski, that were just on the way to hide in a pinewood. We could see them rolling around in the soil and lying down in the shade, almost invisible in their sort of shelter. Then we went on foot from Budy to the same path as the day before and, after few hundred metres, we stopped in the clearing with dead trees. Woodpeckers were not active, but we had the luck to have a Pygmy Owl showing perfectly in the open for minutes, mobbed by Chiffchaff and Blue Tits.

Later on, we had another stop for a Grey-headed Woodpecker that suddenly appeared, with the background songs of Wryneck, Garden Warbler, Lesser Whitethroat and Yellowhammer.

We left after breakfast at 9.30, driving 10 minutes to the nearby reservoir of Siemianówka, only two km from the border with Belarus. We climbed a tower, but unfortunately the view was partially covered by trees. A Thrush Nightingale was singing at the foot of the tower but, despite the time spent searching, we didn't get anything more than glimpses.

From a water level view point, we had a wider perspective to scan the lake, noticing tens of Black, Whiskered, White-winged and Common Terns, Black-headed Gulls and Lapwings, all busy in feeding, in flight or mobbing the innumerable Marsh Harriers. Larger birds like ducks and Coots were instead threatened by much larger White-tailed and Great Spotted Eagles, all patrolling and perching on the other side of the lake. A bit further, along the bank, we saw both Blue-headed and the rarer Citrine Wagtail, while a White-headed Long-tailed Tit crossed in flight and the Penduline Tit was busy visiting its suspended nest, blown by a rather strong wind.

Later we went into a grassland to look for Corncrakes, but without luck, just hearing them close by, but we flushed a female Garganey that was incubating its six eggs, surprisingly in the middle of the grass, far from the water.

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On a patch of Dandelions, sheltered from the wind, together with rather annoying mosquitos, there were Yellow-spotted White-faced Darter (*Leucorrhinia pectoralis*), Map, Peacock (*Aglais io*), Speckled Wood (*Pararge aegeria*), Greenveined (*Pieris napi*) and Small White (*Pieris rapae*).

Lunch was interrupted by a fire in the nearby pinewood, so we decided it was more sensible to leave with the minibus, to avoid finding the path blocked, and to call the fire guards.

We transferred to the northern side of the lake in Cisówka, but the weather got worse, turning to light rain. Most of the passerines of the flooded woodland were silent but a Thrush Nightingale showed briefly. In the sheltered edge of the woodland, we found tens of Variable Damselflies and a few Downy Emeralds, plus the gorgeous Chickweed-wintergreen (*Lysimachia europaea*) in the undergrowth.

Beside a large reed bed, on the other side of the canal, we could hear Savi's, Common Reed, Sedge and Great Reed Warbler, while Penduline Tit and a male Bearded Reedling showed for few seconds.

When we found two Common Sandpipers near a pumping station, it started to rain heavily, so we decided to load the bus and leave. Later we did several tries for Tree-toed Woodpecker and Nutcracker in conifer patches of the Bialowieża Forest, but possibly because of the bad weather, or possibly because of the wrong time of the day, we were unsuccessful, so we came back to the hotel at 17.30.

Supper was also earlier than usual, at 7 pm, but the food was once again delicious, with a beautiful veal filet with green pepper sauce.

### Day 4

# **Tuesday 16th May**

Białowieża Forest and Narew (Great Snipe lek)

For the pre-breakfast birding today we met at 6 am to have maybe just a hundred metres walk to the stream behind the lodge. A male Barred Warbler and a Red-backed Shrike showed very well a number of times, while our tries for the singing River Warbler were unsuccessful.

At 8 am, after breakfast, we went to the Kosy Most area of the Bialowieża Forest. Along the path we noticed a dead Common Shrew (*Sorex araneus*), squashed Grass Snakes (*Natrix natrix*), Wolf and Badger footprints and, potentially, some Racoon Dog (*Nyctereutes procyonoides*) scats, while on the roadside were flowering the Cowslips (*Primula veris*) and less obvious but also rarer bastard-toadflax *Thesium ebracteatum*.

From the bridge, we heard Barred, River and Grasshopper Warbler, but none of them showed. We continued into a conifer woodland, were we soon localized a male Three-toed Woodpecker that stayed for minutes in the open on a dead trunk, well visible in the scope, drumming and preening, while a Spotted Nutcracker just emitted a couple of calls.

We walked south, along the western side of the Narewka river, to a tall tower that offered a wonderful view into the river bed with ponds, bush-lands and reed beds. We relaxed there for a while, seeing a young male Rosefinch, Barred and Great Reed Warbler singing on shrubs or short trees.

Walking back to the minibus, we went through other pinewoods where we observed a singing male Pied Flycatcher, Tree Pipit, Coal Tit and a pair of Crested Tits.

After this loop of about 4 km, we had lunch in a large clearing where, with the sunshine, appeared Chequered Skipper (*Carterocephalus palaemon*), Sooty Copper (*Lycaena tityrus*), Comma (*Polygonia c-album*) and Weaver's Fritillary (*Boloria dia*).

After that, people who wished could come back to the hotel for some spare time to rest, while half of the group followed Luca and Tomasz to look for butterflies near Janowo. We were surprised by the lack of the Violet Copper in the usual boggy terrains, but at least we enjoyed views of Whinchats, Sooty and Small Copper (*Lycaena phlaeas*), Weaver's Fritillary, Field Cricket (*Gryllus campestris*) and several Sand Lizards (*Lacerta agilis*). Mark walked a bit further from the hotel and had the pleasure to see a pair of Wrynecks together on a tree.

Dinner came very early today so we would have the time, after that, to go again in the field to one of the very few Great Snipe leks in Poland, so we ate a spicy soup and beef with radish sauce at 5 pm and we left at 6.30.

In half an hour we arrived by the cemetery of Narew and, from there, we walked half an hour to a swampy grassland with several Broad-leaved Marsh Orchids (*Dactylorhiza majalis*) in bloom. All around were singing Corncrake, River, Savi's, Grasshopper, Sedge and Great Reed Warbler, while from an invisible river took off many White Storks, a Garganey and four Great Egrets.

The sun had the time to drop behind the horizon and the mosquitos to wake up and test our repellents, before a Woodcock started its territorial flight over the woodland behind us, a Short-eared Owl passed overhead and, finally, we started to see the first jumps of the Great Snipes. At the beginning we had a hop maybe once every five minutes, then more frequently, sometimes perching visible on a bank for a short moment. When we decided to leave, to not be surprised by the darkness in some tricky segments of the walk back, while three males were jumping at the same time more than 100m far from our view point, and also around were singing several Spotted Crakes and Common Snipes.

We came back to the hotel just before 10 pm, tired but happy for another very rich day.

#### Day 5

# Wednesday 17th May

Białowieża Forest and Biebrza Marshes

This morning the pre-breakfast meeting was at 6.30 am. The weather forecast was bad for the day, but we had only a few raindrops when we observed the first arrived Marsh Warbler, Wryneck and Sparrowhawk.

At 9.30 am we loaded the minibus with our baggage and left our hotel in Narewka, to go for a last time into the Bialowieża Forest. In the nice surroundings of the Bialowieża village, we finally managed to get a good view in the scope of a singing River Warbler, admiring its vibrating tail, then we heard clearly the song of a Hoopoe and we saw a pair of Rosefinches. The next try for the Spotted Nutcracker in an open pinewood was unsuccessful, but we had some more lovely Chickweed-wintergreens and a selection of fascinating mosses like Juniper Haircap Moss

(Polytrichum juniperinum), Bank Haircap Moss (Polytrichum formosum), Cypress-leaved Plait-moss (Hypnum cupressiforme) and Red-stemmed Feather Moss (Pleurozium schreberi).

Later, we transferred to the Biebrza marshes, driving for about two hours in the rain to Ruś, where we stopped for lunch in a small restaurant.

When we finished eating, it was raining heavily. We first stopped by an observation tower, where at least we could scan by binoculars and scopes a wide swampy grassland, sheltered from the rain, but not from a refreshing breeze. There we had two pairs of Cranes feeding in the grass, sometimes mobbed by territorial Lapwings, a pair of Blacktailed Godwits and several White-winged Terns.

Then we had a stop to walk few hundred metres along the board bridge of the Lawki marsh: our target was the Aquatic Warbler that we heard singing, but the weather was definitely too "aquatic" to use the optics. We still had a Snipe singing from a hay bale, a Citrine Wagtail on passage and the fringed white flowers of Bogbeans (*Menyanthes trifoliata*).

A few kilometres north Tomasz spotted an unexpected Elk (*Ales ales*) in the middle of a wet prairie. We approached it quietly and the maybe three years old bull stayed, maybe 50 metres away, without paying attention to us. Despite the light rain, we had an unbelievable opportunity to take good photos: it was most likely one of the descendants of Matilda, a tame female Elk that produced, over the years, a new generation of often confident cervids, enjoying the protection of the species at a national level without being scared too much by people.

We arrived at the new hotel in Goniadz at 5.30 pm. We couldn't appreciate the view too much, because the downpour hadn't stop yet and continued till supper, when we had a good slice of pork with potatoes.

After that, we celebrated our fist Elk with a so called "Elk Kick", a rather strong local spirit kindly offered by Tomasz.

#### Day 6

# **Thursday 18th May**

#### Biebrza Marshes

This morning we started at 6 am and, just after the coffee, we found a White-tailed Eagle perched in the marsh in front of the hotel: a good start!

Then we drove to the Ławki marsh: the wind was chilly, but there were still several songs in the air, including many Common Snipe drumming in flight. With some dedication, we managed to see Grasshopper, Sedge and Willow Warbler, but unfortunately, with the cold, the Aquatic Warbler was silent. Raptor lovers were particularly pleased in seeing a Red Kite mobbed by a Short-eared Owl and at least three Montagu's and two Marsh Harriers.

On a hay bale was perched a wonderful male Citrine Wagtail that showed well in the scopes, while in the hedge by the minibus we successfully looked for a Savi's Warbler, managing by the end to have good photos. With so many observations, we came for breakfast only at 8.50 am, leaving again for the marshes one hour later.

The first stop was to see Great Grey Shrike, Montagu's Harrier, White-tailed Eagle and a cloud of White Storks in the sky, not far from some ancient Russian bunkers. A few hundred metres further on we walked along the nice board bridge of Wieża Widokowa to a tower. The view was once again partially covered by a deep green oak, but we still saw two pairs of Cranes looking for food in the tall grass together with White Storks, Lapwings and Greylag Geese, while a Bluethroat soon disappeared in the vegetation. We continued walking to a platform that faced a wetland with reed beds, willow bushes and a small pond. We waited a while seeing Sedge and Savi's Warbler again, Penduline Tit, two Cuckoos and a few Hairy Dragonflies (*Brachytron pratense*) drying their wings on a cane, then finally a white-spotted male Bluethroat appeared, showing for a few seconds here and there on the reeds or on a bush. The final cherry from the platform was our first Black Stork, spotted in the sky by Luca.

On the way back, with weak sunshine, many dragonflies appeared, including Yellow-spotted White-faced, Variable, Winter (*Sympecma fusca*) and Large Red Damselflies (*Pyrrhosoma nymphula*).

Coming from Mścichy, after three kilometres dealing with the minibus on a bumpy rough road with plenty of puddles, we finally reached Biały Grąd, our picnic spot: a lovely tower surrounded by meadows with Fieldfares and wetlands with extensive Yellow Flags (*Iris pseudacorus*), Water Violets (*Hottonia palustris*) and Common Watercrowfoots (*Ranunculus* cfr. *aquatilis*).

A first surprise were a Black Stork and a Great Egret, with its nuptial black bill, fishing together almost under the tower, but then, from the top, while eating our packed lunches, we could scan the vast marshes. In the distance there was a colony of Black-headed Gulls and Whiskered Terns, among which were having a rest or swimming Black-necked Grebes, Gadwalls, Wigeons, Garganeys, Pochards and a single Teal.

Much closer were tens of waders, enjoying a wet meadow: Wood, Green and Common Sandpipers, Black-tailed Godwits, Redshanks but, first of all, female and male Ruffs. The males, in particular, were wearing their best collars with orange, black, white and barred grey feathers, and were trying their best to impress the many females, inflating the plumage and chasing their rivals: one of the most famous views in the Biebrza National Park! Mark noticed also a Ringed Plover and a Temminck's Stint.

After lunch, we transferred to Brzostowo, where the edge of the village offered a wide view into the river bed of Biebrza. Among the Mute Swans, were soon noticed Garganeys and a Pintail, while in the flooded grassland on the other side of the river, Lapwings, Black-tailed Godwits, Dunlins and Ruffs were appearing and disappearing among the vegetation. Over the water crossed in flight at least twenty Black and a single Common Tern and two Caspian Gulls.

Our last stop was in a mosaic of traditional countryside near Rutkowskie: here had been reported an Ortolan Bunting, but we struggled a lot to get a view, exploring Scots Pine and Silver Birch (*Betula pendula*) groves among the cereal fields. We flushed a Roe Deer and a Brown Hare (*Lepus europaeus*), while in the sky were plenty of White Storks. We finally observed two male Ortolan Buntings chasing one each other among the foliage: definitely extremely beautiful little birds!

Then we drove back almost an hour to our hotel, ending the day in the best way with a dinner with soup, wiener schnitzel and ice-cream.

# Day 7 Friday 19th May

#### Biebrza Marshes and Tykocin

We met at 6 am and we went on foot to a platform in our village, Goniadz, dominating the Biebrza valley and we saw a nest of White Storks. Red Fox, Roe Deer, Marsh Harrier, Redshanks and Lapwings were roaming in the swampy grasslands, with a soundtrack of Great Reed and Sedge Warblers. A male Rosefinch as well showed in the scopes on the top of a Silver Birch.

After breakfast, another try in Bagno Ławki, but once again no Aquatic Warbler: too cold and breezy. However, a pair of Citrine Wagtails, the Snipes and two pairs of Montagu's Harriers, that performed the prey exchange, showed very well. We had later a better view of Thrush Nightingale, a lovely family of Cranes with a little orangey chick and a glimpse of a Stoat (*Mustela erminea*).

Later we moved to the south-western side of the Biebrza marshes, visiting a view point in Burzyn: the river Biebrza was flowing peacefully with meanders, ponds and wet grasslands. Some Yellow Wagtails were active around the short tower, while in the distance we had a Red-necked Grebe.

Another stop was not far from Sieburczyn, were we descended a rough road almost to the river side. The water was filled with Black-headed Gulls, Mute Swans, Whiskered and White-winged Terns, Great Egrets and Redshanks. With some effort, through the scopes, we could spot a distant Black-necked Grebe, Little Gulls and Pochards, plus Goldeneyes, Shovelers, Garganeys and Ruffs hopping for few seconds and suddenly disappearing in the green. Two Black Storks joined the fest, landing a few hundred metres away, sometimes mobbed by the Black-headed Gulls.

For lunch, we stopped again in the Ruś restaurant, having a delicious żurek soup.

After eating, we went to the countryside of Tykocin where a couple of sand quarries were now hosting a colony of Sand Martins and a single Northern Wheatear, uncommon in this area. While we searched for a singing Corn Crake, Mike spotted a running Grey Partridge and Mark a Honey Buzzard overhead, while Tomasz showed a pair of Golden Orioles and Luca found finally two Icterine Warbler: what a wonderful team work!

Then we drove back to the hotel, where we had an early dinner at 5 pm with fried pork and an cooked apple filled with jam.

We went for a last evening in the field, trying for the third time the Ławki marsh board path. It was worthwhile, because finally, with a rising temperature of 15°C, the Aquatic Warblers were singing and we managed to see a male through the scopes, perched on a short willow scrub: one of the most iconic birds in Poland that here has its stronghold.

Then we went for walk in nearby Barwik, reaching some peaceful bush lands and marshes. The calmness from a short tower was complete, with only songs of Thrush Nightingale, Snipe, Whitethroat and Grasshopper Warbler. Tomasz invited us to feel the isolated atmosphere of that remote place in the Biebrza marshes and definitely we did.

It was almost dark when we saw a large male Elk in the distance and we heard a Green Toad (Bufotes viridis).

On the way back to the hotel, we did a couple of stops hoping for Nightjar, but we were unsuccessful. The last surprise was instead to spot a Northern White-breasted Hedgehog (*Erinaceus roumanicus*) crossing the road in Goniadz: a lifer for all the group.

#### Day 8

# Saturday 20th May

Biebrza marshes and Warsaw airport

Today we had a gentle start, meeting for breakfast at 7.30 am and leaving everybody enough time to pack their suitcases. We left the Goniadz hotel, in fact, at 9.30 am. We had a couple of stops in promising patches of forest for the Spotted Nutcracker, but we had no success. With the warm sunshine, many butterflies appeared on the roadside, including Clouded Apollo (*Parnassius mnemosyne*), Camberwell Beauty, Map, Brimstone (*Gonepteryx rhamni*), Chequered Skipper and Green Hairstreak (*Callophrys rubi*). Among the birds, we found a Goldcrest, a Red-backed Shrike and an Icterine Warbler.

Later we transferred again to Sieburczyn, to have a packed lunch in a very rich area. There were in fact four species of grebes, terns and ducks again, plus 11 Cranes standing in the distance. An extended meadow of Mouse-eared Hawkweed (*Pilosella* cfr. officinarum) offered instead Camberwell Beauty, Wall Brown (*Lasiommata megera*), Dingy Skipper (*Erynnis tages*), Pale Clouded Yellow (*Colias hyale*), Small and Sooty Copper, while on the bushes and trees were perched Banded Demoiselles (*Calopteryx splendens*), White-legged (*Platycnemis pennipes*) and Variable Damselflies, Downy Emerald and Four-spotted Chaser.

It was wonderful to finish in that place, because the view into river Biebrza in the sunshine was fantastic, together with a soundtrack composed only of the water birds calls.

After a group photo, we left that heaven on Earth and we headed south-west to Warsaw: the journey, with a facilities and ice-cream break, took almost three hours, then we went through the city centre, to give a lift to a few members of the group staying in Warsaw, and we continued to the Chopin airport. A quick goodbye to Tomasz, Luca and Yarek, who took care of us in an impeccable way, and we were ready for the check-in and the passport controls. Goodbye Poland!

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### **Species lists**

Birds (h = Heard only, LO = Leader only)

					May 2	2023			
Common name	Scientific name	13	14	15	16	17	18	19	20
Greylag Goose	Anser anser		20	20		15	10	30	2
White-fronted Goose	Anser albifrons							1	
Mute Swan	Cygnus olor	10	5	5	10	20	30	10 0	60
Whooper Swan	Cygnus cygnus	1							
Garganey	Spatula querquedula			4	1	2	15	10	3
Northern Shoveler	Spatula clypeata						2	10	5
Gadwall	Mareca strepera			3			10	1	1
Eurasian Wigeon	Mareca penelope						10	8	4
Mallard	Anas platyrhynchos	20	5	15	15	5	10	15	10 0
Northern Pintail	Anas acuta						1		
Eurasian Teal	Anas crecca						1		
Common Pochard	Aythya ferina	2					3	4	2
Common Goldeneye	Bucephala clangula	2						6	
Grey Partridge	Perdix perdix							2	
Common Pheasant	Phasianus colchicus	2							
Little Grebe	Tachybaptus ruficollis	h							1
Red-necked Grebe	Podiceps grisegena	6						1	1
Great Crested Grebe	Podiceps cristatus	5		2			1	4	4
Black-necked Grebe	Podiceps nigricollis						5	1	4
Black Stork	Ciconia nigra	<b>√</b>					5	2	
White Stork	Ciconia ciconia	20	15	10	30	35	10 0	50	20
Eurasian Bittern	Botaurus stellaris	h				2h	2h		h
Grey Heron	Ardea cinerea	3	1	5		1	15	5	1
Great Egret	Ardea alba			5	4	5	10	20	5
Great Cormorant	Phalacrocorax carbo			1					2
European Honey Buzzard	Pernis apivorus			1	1			2	

					May 2				
Common name	Scientific name	13	14	15	16	17	18	19	20
Lesser Spotted Eagle	Clanga pomarina		2						
Greater Spotted Eagle	Clanga clanga			2					
Eurasian Sparrowhawk	Accipiter nisus					2			
Western Marsh Harrier	Circus aeruginosus	3	2	7	1	1	10	7	1
Montagu's Harrier	Circus pygargus		1				5	5	
Red Kite	Milvus milvus						1		
White-tailed Eagle	Haliaeetus albicilla			3			2		
Common Buzzard	Buteo buteo	5	1	1	1	1	2	2	3
Water Rail	Rallus aquaticus	h			h	h	2h		
Corn Crake	Crex crex	3h	h	3h	10 h	3h	h	4h	
Spotted Crake	Porzana porzana				4h			h	h
Common Moorhen	Gallinula chloropus			h			4	2h	
Eurasian Coot	Fulica atra	5		3			5	1	1
Common Crane	Grus grus			30 0	6	5	15	25	20
Northern Lapwing	Vanellus vanellus	2	1	3	2	10	10	5	5
Common Ringed Plover	Charadrius hiaticula						1		
Little Ringed Plover	Charadrius dubius				h				
Black-tailed Godwit	Limosa limosa					2	5	2h	2
Ruff	Calidris pugnax						50	25	30
Temminck's Stint	Calidris temminckii						1		
Dunlin	Calidris alpina						15		
Eurasian Woodcock	Scolopax rusticola			1	1			1	
Great Snipe	Gallinago media				4				
Common Snipe	Gallinago gallinago			1	2h	5	10	10	2h
Common Sandpiper	Actitis hypoleucos			2			2		1
Green Sandpiper	Tringa ochropus				h		2		
Common Redshank	Tringa totanus					2	10	15	5
Wood Sandpiper	Tringa glareola						10	1	
Black-headed Gull	Chroicocephalus ridibundus	10		30		15	20 0	25 0	10 0
Little Gull	Hydrocoloeus minutus							10	
Caspian Gull	Larus cachinnans	2					2		
Little Tern	Sternula albifrons	1(L O)							
Common Tern	Sterna hirundo	5		10			1	3	
Whiskered Tern	Chlidonias hybrida	1		20			10	30	20
White-winged Tern	Chlidonias leucopterus			10		15	1	10	10
Black Tern	Chlidonias niger			50			20	1	
Feral Pigeon	Columba livia var. domestica	20				2	2	5	20
Stock Dove	Columba oenas	1	1						
Common Wood Pigeon	Columba palumbus	30	15	5	3	3	5	10	3
Eurasian Collared Dove	Streptopelia decaocto	2				2	5	5	3
Common Cuckoo	Cuculus canorus	h	10	5	5h	4	5	6	3h
Tawny Owl	Strix aluco		1						
Eurasian Pygmy Owl	Glaucidium passerinum			1					
Short-eared Owl	Asio flammeus				1		1		
Common Swift	Apus apus	2	1	2	5	5	4	30	
Common Kingfisher	Alcedo atthis								1
Eurasian Hoopoe	Upupa epops		h			h		h	
Eurasian Wryneck	Jynx torquilla		h	3h	5	1			

					May 2				
Common name	Scientific name	13	14	15	16	17	18	19	20
Eurasian Three-toed Woodpecker	Picoides tridactylus				1				
Middle Spotted Woodpecker	Dendrocoptes medius		2	1					
Lesser Spotted Woodpecker	Dryobates minor		2						
Great Spotted Woodpecker	Dendrocopos major	h	15	2	3	2	2	h	h
White-backed Woodpecker	Dendrocopos leucotos		1						
Black Woodpecker	Dryocopus martius	1	2	2			h		
European Green Woodpecker	Picus viridis		2				1		
Grey-headed Woodpecker	Picus canus			1	h				
Common Kestrel	Falco tinnunculus	2	1			1			
Red-backed Shrike	Lanius collurio	2	10	5	10	3			2
Great Grey Shrike	Lanius excubitor		2	3			2		1
Eurasian Golden Oriole	Oriolus oriolus		5h	h	5	h	2	3	h
Eurasian Jay	Garrulus glandarius	1	5	2	3	1	1		
Eurasian Magpie	Pica pica	5	2			1	3	3	
Spotted Nutcracker	Nucifraga caryocatactes				h				
Western Jackdaw	Coloeus monedula	30		5		10	30	20	
Rook	Corvus frugilegus	5		1			15	10	
Hooded Crow	Corvus cornix	10				1	5	3	5
Northern Raven	Corvus corax	3	3	2	3	4	4	3	1
Coal Tit	Periparus ater			_	2				
European Crested Tit	Lophophanes cristatus		1		2				h
Marsh Tit	Poecile palustris		1						
Willow Tit	Poecile montanus		h		3h				h
Eurasian Blue Tit	Cyanistes caeruleus	3	5	2	2	h	1	3	- ''
Great Tit	Parus major	3	5	2	3	3	h	2	
Eurasian Penduline Tit	Remiz pendulinus	5	3	2	3	3	3		
Bearded Reedling	Panurus biarmicus	2		1			3		
Woodlark	Lullula arborea		1	'					
Eurasian Skylark	Alauda arvensis	2	20		5	h		3	
Sand Martin		2	20		Э	h	5 20	_	
	Riparia riparia	20	10	40	4.5	10		50	-
Barn Swallow	Hirundo rustica	10	10	10	15	10	20	20	5
Common House Martin	Delichon urbicum	1	20	10	10	30	20	25	
Long-tailed Tit	Aegithalos caudatus		h	1				10	<u> </u>
Willow Warbler	Phylloscopus trochilus	2h		5	5h	2h	5	10 h	h
Common Chiffchaff	Phylloscopus collybita	h	5h	3	5h	2h	h	3h	3h
Wood Warbler	Phylloscopus sibilatrix		1	2h	5h				2
Great Reed Warbler	Acrocephalus arundinaceus	5	3	5	5	h	2	3h	h
Aquatic Warbler	Acrocephalus paludicola					h		2	
Sedge Warbler	Acrocephalus schoenobaenus	2	3	10	3	2h	10	10	3
Eurasian Reed Warbler	Acrocephalus scirpaceus	3		h			h		
Marsh Warbler	Acrocephalus palustris					1			
Icterine Warbler	Hippolais icterina		h		h			2	2
Common Grasshopper Warbler	Locustella naevia	2h	h	h	3h	h	2	5	
River Warbler	Locustella fluviatilis			h	8h	4			
Savi's Warbler	Locustella luscinioides	3h		h	h	h	3	h	
Eurasian Blackcap	Sylvia atricapilla		10	5	5	3h	3	3h	3
Garden Warbler	Sylvia borin		h	3h	h		1	2h	<u> </u>
Barred Warbler	Curruca nisoria				4	1	-		
Lesser Whitethroat	Curruca curruca	2	h	2h	3	h	3	2h	1

			May 2023							
Common name	Scientific name	13	14	15	16	17	18	19	20	
Common Whitethroat	Curruca communis		1	3	3	3h	5	10	h	
Common Firecrest	Regulus ignicapilla		5	h						
Goldcrest	Regulus regulus		h	2h	h	h			1	
Eurasian Wren	Troglodytes troglodytes		10	2h	5h				h	
Eurasian Nuthatch	Sitta europaea		3							
Eurasian Treecreeper	Certhia familiaris		5		h					
Common Starling	Sturnus vulgaris	20	30	20	40	20	40	30	10	
Common Blackbird	Turdus merula	1	15	3	5	5	3	3h		
Fieldfare	Turdus pilaris		1	1	2	3	10		1	
Song Thrush	Turdus philomelos		10	10	5	2			2	
Mistle Thrush	Turdus viscivorus		3	5	h					
Spotted Flycatcher	Muscicapa striata		1	1	2	1				
European Robin	Erithacus rubecula		10	3h	2h	h		h	3h	
Bluethroat	Luscinia svecica cyanecula						3	h		
Thrush Nightingale	Luscinia luscinia	2h	2h	3	5h	2h	5	5	h	
European Pied Flycatcher	Ficedula hypoleuca				1				1	
Collared Flycatcher	Ficedula albicollis		20	h	1					
Red-breasted Flycatcher	Ficedula parva		5	h		h			h	
Black Redstart	Phoenicurus ochruros		1	3	1	1	h		2	
Common Redstart	Phoenicurus phoenicurus	h	2	5	h	h				
Whinchat	Saxicola rubetra	3	10	10	10	h	3	5		
Northern Wheatear	Oenanthe oenanthe							1		
House Sparrow	Passer domesticus		5	5	3	3	30	5		
Eurasian Tree Sparrow	Passer montanus	5		2	h		2	1		
Dunnock	Prunella modularis		h	h	2h		_	-		
Blue-headed Wagtail	Motacilla flava flava			2	2	1	5	10	5	
Citrine Wagtail	Motacilla citreola			2	_	1	1	3		
White Wagtail	Motacilla alba		5	10	5	2	2		-	
Meadow Pipit	Anthus pratensis		1		1	2	1	h	-	
Tree Pipit	Anthus trivialis				h	_	•			
Common Chaffinch	Fringilla coelebs	3h	5	10	10	3	3	2h	h	
Hawfinch	Coccothraustes coccothraustes	011	10	15	10	5	1	211	h	
Eurasian Bullfinch	Pyrrhula pyrrhula	h(L O)	10	10	10		•			
Common Rosefinch	Carpodacus erythrinus	h	4	h	1	3	2h	2	3	
European Greenfinch	Chloris chloris	2	1	2	4	2		h	h	
Common Linnet	Linaria cannabina		3	3	2	1	2	3		
European Goldfinch	Carduelis carduelis		5	5	<del>-</del>	-	1			
European Serin	Serinus serinus		h				1	2h		
Corn Bunting	Emberiza calandra		1				•			
Yellowhammer	Emberiza citrinella		10	5	5	h		10	3	
Ortolan Bunting	Emberiza hortulana		10			''	3	10	<del>-</del>	
Common Reed Bunting	Emberiza schoeniclus	10		5	2	2	5	2	-	

### Mammals (LO=Leader only, h=heard only, bd=bat detector, s=signs seen, d=dead)

						May	2023						
Common name	Scientific name	trip	13	14	15	16	17	18	19	20			
Mammals:													
European Mole	Talpa europaea	<b>√</b>		S	S	S	s		S	S			
Northern White-breasted Hedgehog	Erinaceus roumanicus	✓	d				d	d	1				
Common Shrew	Sorex araneus	✓				d							
Schreibers's Bat	Miniopterus schreibersii	LO							bd				
Serotine	Eptesicus serotinus	LO							bd				
Western Barbastelle	Barbastella barbastellus	<b>√</b>							bd				
Nathusius' Pipistrelle	Pipistrellus nathusii	LO							bd				
Soprano Pipistrelle	Pipistrellus pygmaeus	✓	bd										
Daubenton's Bat	Myotis daubentonii	✓	3						bd				
Common Noctule	Nyctalus noctula	✓	bd						bd				
European Hare	Lepus europaeus	✓		1				1	3				
Eurasian Beaver	Castor fiber	✓	3		s	1		s					
Eurasian Red Squirrel	Sciurus vulgaris	✓		2		1							
Bank Vole	Chletrionomys glareolus	✓		2						1			
Vole sp.	Microtus sp.	✓				1							
Racoon Dog - I	Nyctereutes procyonoides	✓				s?							
Grey Wolf	Canis lupus	<b>√</b>			s	s							
Red Fox	Vulpes vulpes	✓		2					1				
Badger	Meles meles	✓				s							
Stoat	Mustela erminea	LO							1				
Eurasian Elk	Alces alces	✓					1		1				
European Roe Deer	Capreolus capreolus	<b>√</b>	3	10		3	1	2	3				
Red Deer	Cervus elaphus	<b>√</b>		3		S		1	1				
European Bison	Bison bonasus	<b>√</b>		s	2								

# Reptiles & Amphibians

					May	2023			
Common name	Scientific name	13	14	15	16	17	18	19	20
Reptiles:									
Sand Lizard	Lacerta agilis				4		3		
Grass Snake	Natrix natrix		d		4			d	d
Amphibians									
European Fire-bellied Toad	Bombina bombina	<b>//</b>							2h
Common Toad	Bufo bufo		2		d				
Green Toad	Bufotes viridis							2h	
Eastern Tree Frog	Hyla orientalis	h	h						
Pool Frog	Pelophylax lessonae	5	1						
Edible Frog	Pelophylax esculentus	1	3						
A green frog	Pelophylax sp.			h	5		5	10	15
Common Frog	Rana temporaria		30		5				1

#### Invertebrates

			May 2023						
Common name	Scientific name	13	14	15	16	17	18	19	20
Butterflies:									
Clouded Apollo	Parnassius mnemosyne								5
Large White	Pieris brassicae				1				1
Green-veined White	Pieris napi	3	30	5	20		1		10
Small White	Pieris rapae			1	1				
Orange Tip	Anthocharis cardamines		10		10				2
Pale Clouded Yellow	Colias cfr. hyale			1					1
Brimstone	Gonepteryx rhamni		5	1	3				10
Wood White	Leptidea cfr. sinapis		5	1	3				1
Green Hairstreak	Callophrys rubi								3
Small Copper	Lycaena phlaeas				1				2
Sooty Copper	Lycaena tityrus				2				5
Short-tailed Blue	Cupido argiades				1				
Camberwell Beauty	Nymphalis antiopa		1						2
Peacock Butterfly	Aglais io	1	1	1	2				
Small Tortoiseshell	Aglais urticae		1						
Red Admiral	Vanessa atalanta		1						
Comma	Polygonia c-album				2				
Map Butterfly	Araschnia levana		3	1	10				3
Weaver's Fritillary	Boloria dia				2				
Small Heath	Coenonympha pamphilus				1				10
Wall Brown	Lasiommata megera								2
Speckled Wood	Pararge aegeria		5	1	5		5		1
Dingy Skipper	Erynnis tages								2
Chequered Skipper	Carterocephalus palaemon				3				1
Moths:									
Tau Emperor	Aglia tau		5						
Pebble Hook-tip	Drepana falcataria						1		
Latticed Heath	Chiasmia clathrata		2	1	2		10		
Dingy Mocha	Cyclophora pendularia							1	
Common Heath	Ematurgia atomaria		1	3	5		1		
Common Carpet	Epirrhoe alternata			_	_		1		
Bilberry Emerald	Jodis putata				1				
Clouded Border	Lomaspilis marginata				'		1		
Brown Silver-Line	Petrophora chlorosata								1
Speckled Yellow	Pseudopanthera macularia				1				1
Lewes Wave	Scopula immorata								1
Blood-vein	Timandra comae							1	<u> </u>
Garden Carpet	Xanthorhoe fluctuata							1	
Garden Tiger	Arctia caja							'	С
Pale Tussock Moth	Calliteara pudibunda					1			
Purple Tiger	Diacrisia purpurata				С	'			
Burnet Companion	Euclidia glyphica						1		1
Buttoned Snout	Hypena rostralis						1	1	<u>'</u>
Gypsy Moth	Lymantria dispar							1	_
	Acronicta albovenosa							1	С
Reed Dagger						4		1	
Shears	Hada plebeja					1			4
Small Yellow Underwing	Panemeria tenebrata		5	1	1				1

						2023					
Common name	Scientific name	13	14	15	16	17	18	19	20		
Angle Shades	Phlogophora meticulosa								1		
Common Roller	Ancylis badiana				1						
Marsh Marigold Moth	Micropterix calthella					1					
c=caterpillar											
Dragonflies:											
Common Winter Damselfly	Sympecma fusca		2	1			2		5		
Siberian Winter Damselfly	Sympecma paedisca	50									
Banded Demoiselle	Calopteryx splendens								10		
White-legged Damselfly	Platycnemis pennipes		1						3		
Variable Damselfly	Coenagrion pulchellum	10	3	30	1		20		20		
Blue-tailed Damselfly	Ischnura elegans	1		- 00	•				10		
Large Red Damselfly	Pyrrhosoma nymphula	'					2		10		
Hairy Dragonfly	Brachytron pratense						3		1		
Club-tailed Dragonfly	· ·				1		٦		'		
	Gomphus vulgatissimus Cordulia aenea	1	2	3	ı				1		
Downy Emerald		I									
Yellow-spotted White-faced Darter	Leucorrhinia pectoralis			1			1				
Four-spotted Chaser	Libellula quadrimaculata	5	1						10		
Other insects:											
European Field Cricket	Gryllus campestris			h	<b>√</b>						
Dark Bush-cricket	Pholidoptera griseoaptera				1						
A green bush-cricket	Tettigonia sp.			<b>√</b>	<b>√</b>						
Northern Fruit Bug	Carpocoris fuscispinus							1			
Dock Bug	Coreus marginatus								1		
Painted Bug	Eurydema dominulus				<b>√</b>						
A pond skater	Gerris sp.		<b>√</b>		<b>√</b>						
Striped Shield Bug	Graphosoma italicum		1		•				1		
European Firebug	Pyrrhocoris apterus		<b>√</b>						-		
Spotted Firebug	Corizus hyoscyami		V						1		
An assassin bug	Rhynocoris annulatus								1		
A beetle	Staphylinus erythropterus		1						<u>'</u>		
A green lacewing	Chrysoperla sp.		'		1						
<u> </u>	Sialis sp.	,			1						
An alderfly  Common European Scorpionfly	Panorpa communis	<b>√</b>		1	1						
	,			1	ı			,			
Mottled Sedge Caddisfly	Glyphotaelius pellucidus							✓			
A caddisfly	Hydropsyche sp.				1						
A caddisfly	Limnephilus sp.		1	4							
A robber fly	Asilidae sp.			1					<u></u>		
Yellow-girdled Brusheye	Dasysyrphus tricinctus								1		
Yellow-haired Sun Fly	Myathropa florea		1								
A bog fly	Parhelophilus sp.						1				
Orange-marked Cranefly	Ptychoptera cfr. contaminata						1				
Wood Snipefly	Rhagio annulatus						1				
A dung fly	Scathophaga sp.						1				
A drone fly	Temnostoma bombylans								1		
Ashy Mining Bee	Andrena cineraria				1						
Honey Bee	Apis mellifera		<b>√</b>								
Bohemian Cuckoo Bumble Bee	Bombus cfr. bohemicus			1	1						

						2023			
Common name	Scientific name	13	14	15	16	17	18	19	20
Tree Bumble Bee	Bombus hypnorum								1
An ant	Formica sp.			✓			✓		✓
A paper wasp	Polistes nimpha				2				
Hornet	Vespa crabro		2						
A sawfly	Tenthredo campestris								1
Alder Leaf Beetle	Agelastica alni				2				
A click beetle	Agrypnus murinus						1		
A round fungus beetle	Anisotoma sp.		✓						
Woodland Dor Beetle	Anoplotrupes stercorosus		1		1				
Rustic Sailor Beetle	Cantharis rustica			1	1				
Bronze Ground Beetle	Carabus nemoralis							1	
Knotgrass Leaf Beetle	Chrysolina polita		1						
Northern Dune Tiger Beetle	Cicindela hybrida								1
A leaf beetle	Donacia cinerea		1						
A whirligig beetle	Gyrinus sp.		<b>√</b>		<b>√</b>				
Asian Lady-bird	Harmonia axyridis						1		
Lesser Silver Water Beetle	Hydrochara caraboides							1	
Common Cockchafer	Melolontha melolontha					<b>√</b>	<b>√</b>		<b>√</b>
A longhorn beetle	Mesosa curculionoides				1		,		-
A false blister beetle	Oedemeridae sp.								1
A leaf beetle	Plagiosterna aenea			1	1				
A longhorn beetle	Pogonocherus hispidus	1		_	-				
A rove beetle	Staphylinus erythropterus		1						
Apple Blossom Beetle	Tropinota hirta				1				1
••	,								
Other invertebrates:									
Ant Comb-footed Spider	Asagena phalerata			1					
A fishing spider	Dolomedes cfr. fimbriatus		1					1	
A jumping spider	Evarcha arcuata				1				
Furrow Orbweaver	Larinioides cornutus								1
An orbweaver	Larinioides ixobolus							<b>√</b>	
Old World Dome Sheetweaver	Neriene montana								1
A wolf spider	Pardosa sp.				1				
A running crab spider	Philodromus sp.								1
A cellar spider	Pholcus sp.							1	
European Nursery Web Spider	Pisaura mirabilis				1		<b>/</b>	1	1
A long-jawed orbweaver	Tetragnatha sp.			1			2		2
Swamp Crab Spider	Xysticus ulmi				1				
Spring Harvestman	Rilaena triangularis				1				2
A pill millipede	Glomeris tetrasticha							1	
Brickwork Woodlouse	Porcellio spinicornis							1	1
Copse Snail	Arianta arbustorum	<b>√</b>			<b>√</b>	<b>√</b>			<u> </u>
A slug	Arion sp.	<b>V</b>			<b>V</b>	7		<b>√</b>	
Brown-lipped Snail	Cepaea nemoralis	<b>√</b>			<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	
Roman Snail	Helix pomatia	<b>√</b>			<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	
Leopard Slug	Limax maximus	V			V	V		1	1
Great Pond Snail	Lymnaea stagnalis							· ✓	\ \ \
C. Cat i Olia Oliali	-,aca ciagnano							_ v	V

#### **Plants**

Latin name	English name	Family	Day	Location
BRYOPHYTES	MOSSES			
Brachythecium rutabulum	Rough-stalked Feather- Moss	Brachytheciaceae	2	Białowieża forest
Calliergonaceae sp.	A spear moss	Calliergonaceae	6	Biebrza marshes
Dicranus sp.	A fork-moss	Dicranaceae	5	Białowieża forest
<i>Δισιατία</i> δ δρ.	Grey-cushioned	Dicialiaceae	J J	Diaiowieza iorest
Grimmia cfr. pulvinata	Grimmia	Grimmiaceae	4	Białowieża forest
Racomitrium sp.	A rock moss	Grimmiaceae	4	Narew
Hylocomium splendens	Stairstep Moss	Hylocomiaceae	3	Białowieża forest
D	Red-stemmed Feather			B
Pleurozium schreberi Rhytidiadelphus	Moss Square Gooseneck	Hylocomiaceae	3	Białowieża forest
squarrosus	Moss	Hylocomiaceae	4	Białowieża forest
	Cypress-leaved Plait-			
Hypnum cupressiforme	Moss	Hypnaceae	4	Białowieża forest
Plagiomnium undulatum	Palm-tree Moss	Mniaceae	2	Białowieża forest
Polytrichum formosum	Bank Haircap Moss	Polytrichaceae	5	Białowieża forest
Polytrichum juniperinum	Juniper Haircap Moss	Polytrichaceae	5	Białowieża forest
PTERIDOPHYTES	FERNS & ALLIES			
Pteridium aquilinum	Common Bracken	Dennstaedtiaceae	3	Cisówka
Dryopteris filix-mas	Male Fern	Dryopteridaceae	2	Białowieża forest
Equisetum arvense	Field Horsetail	Equisetaceae	1	Dojlidy
Equisetum fluviatile	Water Horsetail	Equisetaceae	2	Białowieża forest
Equisetum pratense	Meadow Horsetail	Equisetaceae	2	Białowieża forest
Equisetum sylvaticum	Wood Horsetail	Equisetaceae	2	Białowieża forest
Thelypteris palustris	Marsh Fern	Thelypteridaceae	5	Biebrza marshes
GYMNOSPERMS	CONIFERS			
Juniperus communis	Common Juniper	Cupressaceae	2	Białowieża forest
Picea abies	Spruce	Pinaceae	2	Białowieża forest
Pinus sylvestris	Scots Pine		2	Białowieża forest
Pinus sylvesins	Scots Pine	Pinaceae		białowieza iorest
ANGIOSPERMS	FLOWERING PLANTS			
D: /	D: 4111			
Dicots	Dicotyledons			
Aegopodium podagraria	Goutweed	Apiaceae	2	Białowieża forest (leaves)
Anthriscus sylvestris	Cow Parsley	Apiaceae	1	Dojlidy
Chaerophyllum hirsutum	Hairy Chervil	Apiaceae	4	Białowieża forest
onaorophynam imoaidin	any onorvii	, , , , , , , , , , , , , , , , , , , ,	7	Białowieża forest (dead
Daucus carota	Wild Carrot	Apiaceae	3	stems)
Vinca minor	Lesser Periwinkle	Apocynaceae	1	Dojlidy
Asarum europaeum	Asarabacca	Aristolochiaceae	2	Białowieża forest
Alnus glutinosa	Black Alder	Betulaceae	2	Białowieża forest
Betula pendula	Silver Birch	Betulaceae	6	Biebrza marshes
Carpinus betulus	Hornbeam	Betulaceae	2	Białowieża forest
Corylus avellana	Hazel	Betulaceae	2	Białowieża forest

Latin name	English name	Family	Day	Location
Berberis vulgaris	European Barberry	Berberidaceae	6	Biebrza marshes
Anchusa arvensis	Small Bugloss	Boraginaceae	7	Tykocin
Anchusa officinalis	Common Alkanet	Boraginaceae	4	Janowo
Buglossoides arvensis	Corn Gromwell	Boraginaceae	7	Tykocin
Myosotis sparsiflora	A forget-me-not	Boraginaceae	2	Białowieża forest
Myosotis cfr. sylvatica	Wood Forget-me-not	Boraginaceae	2	Białowieża
Symphytum officinale	Common Comfrey	Boraginaceae	1	Dojlidy
Alliaria petiolata	Garlic Mustard	Brassicaceae	2	Białowieża forest
Alyssum cfr. alyssoides	Small Alison	Brassicaceae	3	Siemianówka lake
Arabidopsis cfr. arenosa	Sand Rock-cress	Brassicaceae	2	Białowieża forest
Barbarea cfr. vulgaris	Bittercress	Brassicaceae	4	Białowieża forest
Berteroa incana	Hoary Alyssum	Brassicaceae	3	Siemianówka lake
Bunias orientalis	Warty-cabbage	Brassicaceae	7	Biebrza marshes
Capsella bursa-pastoris	Shepherd's-Purse	Brassicaceae	1	Dojlidy
Cardamine amara	Large Bittercress	Brassicaceae	1	Dojlidy
Cardamine bulbifera	Bulbous Bittercress	Brassicaceae	2	Białowieża forest
Cardamine flexuosa	Wavy Bittercress	Brassicaceae	2	Białowieża forest
Cardamine pratensis	Lady's Smock or Cuckoo Flower	Brassicaceae	2	Białowieża forest
Rorippa amphibia	Amphibious Yellowcress	Brassicaceae	8	Biebrza marshes
Thlaspi cfr. arvense	Field Penny-Cress	Brassicaceae	7	Biebrza marshes
Humulus lupulus	Common Hops	Cannabaceae	1	Dojlidy
Knautia arvensis	Field Scabious	Caprifoliaceae	2	Białowieża
Valerianella locusta	Common Cornsalad	Caprifoliaceae	4	Narewka
Cerastium arvense	Field Chickweed	Caryophyllaceae	7	Tykocin
Cerastium holosteoides	Common Mouse-ear Chickweed	Caryophyllaceae	3	Siemianówka lake
Moehringia trinervia	Three-nerved Sandwort	Caryophyllaceae	2	Białowieża forest
Rabelera holostea	Greater Stitchwort	Caryophyllaceae	2	Białowieża forest
Silene flos-cuculi	Ragged-robin	Caryophyllaceae	4	Janowo
Stellaria media	Common Chickweed	Caryophyllaceae	3	Siemianówka lake
Stellaria nemorum	Wood Stitchwort	Caryophyllaceae	2	Białowieża forest
Euonymus europaeus	Spindle	Celastraceae	3	Siemianówka lake
Euonymus verrucosus	Warty-barked Spindle	Celastraceae	3	Siemianówka lake
Achillea cfr. millefolium	Yarrow	Compositae (Asteraceae)	3	Siemianówka lake (leaves)
		Compositae		
Anthemis cfr. arvensis	Corn Chamomile	(Asteraceae)	7	Biebrza marshes
Arctium sp.	A burdock	Compositae (Asteraceae)	1	Dojlidy (leaves)
Artemisia cfr. absinthium	Absinthe Wormwood	Compositae (Asteraceae)	3	Siemianówka lake (leaves)
Bellis perennis	Daisy	Compositae (Asteraceae)	1	Dojlidy
Centaurea cyanus	Cornflower	Compositae (Asteraceae)	7	Tykocin
Cirsium rivulare	Brook Thistle	Compositae (Asteraceae)	4	Narewka
Cirsium vulgare	Bull Thistle	Compositae (Asteraceae)	3	Białowieża forest (leaves)
Pilosella cfr. officinarum	Mouse-eared Hawkweed	Compositae (Asteraceae)	3	Siemianówka lake
Senecio sp. vernalis	Eastern Groundsel	Compositae (Asteraceae)	5	Narewka
Senecio vulgaris	Common Groundsel	Compositae (Asteraceae)	7	Biebrza marshes

Latin name	English name	Family	Day	Location
Tanacatum villaara	Taney	Compositae (Asteraceae)	2	Rightwints forest (leaves)
Tanacetum vulgare	Tansy	Compositae		Białowieża forest (leaves)
Taraxacum cfr. officinale	Common Dandelion	(Asteraceae)	1	Dojlidy
Cornus sanguinea	Common Dogwood	Cornaceae	4	Białowieża forest
Sedum acre	Biting Stonecrop	Crassulaceae	3	Siemianówka lake (leaves)
Calluna vulgaris	Common Heather	Ericaceae	4	Białowieża forest (leaves)
Vaccinium myrtillus	Bilberry	Ericaceae	3	Siemianówka lake
Vaccinium vitis-idaea	Lingonberry	Ericaceae	3	Białowieża forest (leaves)
Euphorbia cyparissias	Cypress Spurge	Euphorbiaceae	4	Białowieża forest
Euphorbia saratoi	Boissier's Spurge	Euphorbiaceae	3	Siemianówka lake
Mercurialis perennis	Dog's Mercury	Euphorbiaceae	2	Białowieża forest (leaves)
Quercus robur	Pendunculate Oak	Fagaceae	2	Białowieża forest
Erodium cicutarium	Redstem Stork's-Bill	Geraniaceae	7	Biebrza marshes
Geranium cfr.				
pyrenaicum	Hedgerow Crane's-Bill	Geraniaceae	2	Białowieża
Geranium robertianum	Herb Robert	Geraniaceae	8	Biebrza marshes
Geranium sylvaticum	Wood Crane's-bill	Geraniaceae	4	Białowieża forest
Ribes cfr. spicatum	Downy Currant	Grossulariaceae	3	Siemianówka lake
Ajuga reptans	Bugle	Lamiaceae	2	Białowieża forest
Glechoma hederacea	Ground-ivy	Lamiaceae	2	Białowieża forest
Lamiastrum	Vallau Arabanaal	Laminana		Dieleviete ferest
galeobdolon	Yellow Archangel	Lamiaceae	2	Białowieża forest
Lamium album	White Deadnettle	Lamiaceae	1	Dojlidy
Lamium maculatum	Spotted Deadnettle	Lamiaceae	2	Białowieża forest
Lamium purpureum	Red Dead-nettle	Lamiaceae	1	Dojlidy
Mentha aquatica Chamaecytisus	Watermint	Lamiaceae	2	Białowieża (leaves)
ruthenicus	A broom	Leguminosae (Fabaceae)	3	Białowieża forest
	7.2.00	Leguminosae		2.0.020.10.001
Lathyrus vernus	Spring Vetchling	(Fabaceae)	2	Białowieża forest
Trifolium repens	White Clover	Leguminosae (Fabaceae)	4	Narewka
THORUTTEPERS	vville Clovel	Leguminosae	4	INGIEWKG
Vicia sepium	Bush Vetch	(Fabaceae)	1	Dojlidy
Tilia cordata	Small-leaved Lime	Malvaceae	2	Białowieża forest
Menyanthes trifoliata	Bogbean	Menyanthaceae	5	Biebrza marshes
Syringa vulgaris	Common Lilac	Oleaceae	5	Biebrza marshes
Fraxinus excelsior	Common Ash	Oleaceae	2	Białowieża forest
Chamaenerion				
angustifolium	Rosebay Willowherb	Onagraceae	3	Siemianówka lake (leaves)
Oenothera sp.	An evening-primrose	Onagraceae	6	Biebrza marshes (dead stems)
Lathraea squamaria	Toothwort	Orobanchaceae	2	Białowieża forest
Melampyrum	TOOLIWOIT	Orobarichaceae		Dialowicza forest
nemorosum	Wood Cow-wheat	Orobanchaceae	8	Biebrza marshes
Oxalis acetosella	Wood-sorrel	Oxalidaceae	2	Białowieża forest (leaves)
Chelidonium majus	Greater Celandine	Papaveraceae	1	Dojlidy
Roemeria argemone	Prickly Poppy	Papaveraceae	5	Narewka
Plantago lanceolata	Ribwort Plantain	Plantaginaceae	3	Siemianówka lake
Plantago major	Greater Plantain	Plantaginaceae	2	Osowe
Veronica arvensis	Corn Speedwell	Plantaginaceae	3	Siemianówka lake
Veronica beccabunga	Brooklime	Plantaginaceae	2	Białowieża forest (leaves)
Veronica chamaedrys	Germander Speedwell	Plantaginaceae	1	Dojlidy
Veronica officinalis	Common Gypsyweed	Plantaginaceae	3	Siemianówka lake (leaves)

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Latin name	English name	Family	Day	Location
Veronica serpyllifolia	Thyme-leaved Speedwell	Plantaginaceae	2	Białowieża
Bistorta officinalis	Common Bistort	Polygonaceae	4	Janowo
Rumex cfr. acetosa	Common Sorrel	Polygonaceae	4	Narew
Rumex hydrolapathum	Water Dock	Polygonaceae	6	Biebrza marshes
	Water Violet	Primulaceae	6	Biebrza marshes
Hottonia palustris			-	
Lysimachia europaea	Chickweed-wintergreen	Primulaceae	3	Siemianówka lake
Lysimachia nummularia	Creeping Jenny	Primulaceae	8	Biebrza marshes
Primula veris	Cowslip	Primulaceae	3	Białowieża forest
Anemonoides nemorosa Anemonoides	Wood Anemone	Ranunculaceae	2	Białowieża forest
ranunculoides	Yellow Anemone	Ranunculaceae	2	Białowieża forest (leaves)
Caltha palustris	Marsh Marigold	Ranunculaceae	4	Białowieża forest
Hepatica nobilis	Hepatica	Ranunculaceae	2	Białowieża forest (leaves)
Isopyrum thalictroides	Rue-leaved Isopyrum	Ranunculaceae	2	Białowieża forest
Ranunculus acris	Meadow Buttercup	Ranunculaceae	1	Dojlidy
Ranunculus acris	Common Water-	Ranunculaceae	I	Dojiidy
Ranunculus cfr. aquatilis	crowfoot	Ranunculaceae	6	Biebrza marshes
Ranunculus lanuginosus	Woolly Buttercup	Ranunculaceae	2	Białowieża forest
Ranunculus repens	Creeping Buttercup	Ranunculaceae	3	Siemianówka lake
Ranunculus sceleratus	Cursed Crowfoot	Ranunculaceae	8	Biebrza marshes
Thalictrum cfr. lutea	Common Meadow-rue	Ranunculaceae	4	Białowieża forest (leaves)
Alchemilla sp.	A lady's-mantle	Rosaceae	4	Narewka
Comarum palustre	Marsh Cinquefoil	Rosaceae	6	Biebrza marshes (leaves)
<u> </u>	Hawthorn	Rosaceae	7	Biebrza marshes
Crataegus monogyna Filipendula ulmaria	Meadowsweet	Rosaceae	3	Białowieża forest (leaves)
				, ,
Fragaria vesca	Wild Strawberry	Rosaceae	2	Białowieża forest
Geum rivale	Water Avens	Rosaceae	2	Białowieża forest
Malus sp.	An apple tree	Rosaceae	2	Osowe
Potentilla argentea	Silvery Cinquefoil	Rosaceae	3	Siemianówka lake
Prunus padus	Bird Cherry	Rosaceae	1	Dojlidy
Rubus idaeus	Red Raspberry	Rosaceae	3	Białowieża forest (leaves)
Sorbus aucuparia	Rowan	Rosaceae	3	Siemianówka lake
Cruciata laevipes	Crosswort	Rubiaceae	2	Białowieża forest
Galium aparine	Catchweed Bedstraw	Rubiaceae	2	Białowieża forest
Galium odoratum	Sweet Woodruff	Rubiaceae	2	Białowieża forest
Populus × canescens	Grey Poplar	Salicaceae	1	Dojlidy
Populus nigra	Aspen	Salicaceae	1	Warsaw
Populus tremula	European Aspen	Salicaceae	3	Siemianówka lake
Salix alba	White Willow	Salicaceae	8	Biebrza marshes
Salix cinerea	Grey Willow	Salicaceae	1	Dojlidy
Salix euxina	Crack Willow	Salicaceae	1	Dojlidy
Salix myrsinifolia	Dark-leaved Willow	Salicaceae	3	Siemianówka lake
Salix purpurea	Purple Willow	Salicaceae	1	Dojlidy
Thesium ebracteatum	A bastard-toadflax	Santalaceae	4	Białowieża forest
Viscum album	Common Mistletoe	Santalaceae	2	Białowieża forest
Acer negundo	Box Elder	Sapindaceae	1	Dojlidy
Acer platanoides		·	2	Białowieża forest
Acer piatanoides Aesculus	Norway Maple	Sapindaceae		DIGIOWICZG IOIESL
	Horse Chestnut	Sapindaceae	2	Białowieża (planted)
Chrysosplenium	Alternate-leaved Golden			
alternifolium	Saxifrage	Saxifragaceae	2	Białowieża forest
Aesculus hippocastanum Chrysosplenium alternifolium Daphne mezereum	Alternate-leaved Golden			

Latin name	English name	Family	Day	Location
Urtica dioica	Great Stinging Nettle	Urticaceae	2	Białowieża forest
Sambucus nigra	Elder	Viburnaceae	1	Dojlidy
Viburnum opulus	Guelder Rose	Viburnaceae	8	Biebrza marshes
Viola arvensis	European Field Pansy	Violaceae	3	Siemianówka lake
Viola cfr.				
reichenbachiana	Early Dog-violet	Violaceae	2	Białowieża forest
Viola cfr. canina	Heath Dog Violet	Violaceae	4	Białowieża forest
Viola cfr. tricolor	Wild Pansy	Violaceae	4	Narew
Monocots	Monocotyledons			
Alisma plantago-	European Water-			
aquatica	Plantain	Alismataceae	6	Biebrza marshes
Allium ursinum	Ramsons	Amaryllidaceae	2	Białowieża forest
Lemna sp.	A duckweed	Araceae	2	Białowieża forest
Convallaria majalis	Lily-of-the-Valley	Asparagaceae	4	Białowieża forest
Maianthemum biflorum	May Lily	Asparagaceae	2	Białowieża forest
Ornithogalum sp.	A star-of-Bethlehem	Asparagaceae	1	Dojlidy
Polygonatum		, ,		
multiflorum	Solomon's Seal	Asparagaceae	2	Białowieża forest
Carex acuta	Slender Tufted-Sedge	Cyperaceae	4	Białowieża forest
Carex cfr. acutiformis	Lesser Pond Sedge	Cyperaceae	1	Dojlidy
Carex appropinquata	Fibrous Tussock-Sedge	Cyperaceae	7	Biebrza marshes
Carex cespitosa	Hassock-Grass	Cyperaceae	4	Białowieża forest
Carex hirta	Hairy Sedge	Cyperaceae	8	Biebrza marshes
Carex nigra	Smooth Black Sedge	Cyperaceae	6	Biebrza marshes
Iris pseudacorus	Yellow Iris	Iridaceae	6	Biebrza marshes
Luzula cfr. campestris	Field Woodrush	Juncaceae	2	Białowieża forest
Fritillaria meleagris	Snake's-head Fritillary	Liliaceae	7	Biebrza marshes (fruits)
Nuphar lutea	Yellow Water-lily	Nymphaeaceae	2	Białowieża
Dactylorhiza majalis Alopecurus cfr.	Broad-leaved Marsh Orchid	Orchidaceae	4	Narew
pratensis	Golden Foxtail Grass	Poaceae	1	Dojlidy
Dactylis glomerata	Orchard Grass	Poaceae	8	Biebrza marshes
Festuca cfr. rubra	Red Fescue	Poaceae	8	Biebrza marshes
Melica nutans	Mountain Melick	Poaceae	8	Biebrza marshes
Phragmites australis	Common Reed	Poaceae	1	Dojlidy
Poa cfr. trivialis	Rough Meadow-grass	Poaceae	1	Dojlidy
Potamogeton nodosus	Longleaf Pondweed	Potamogetonaceae	4	Białowieża forest
Typha cfr. latifolia	Broadleaf Cattail	Typhaceae	1	Dojlidy
Agaricomycetes	FUNGI			
Fomitopsis pinicola	Red-banded Polypore	Fomitopsidaceae	2	Białowieża forest
Apioperdon pyriforme	Pear-shaped Puffball	Lycoperdaceae	2	Białowieża forest
Fomes fomentarius	Hoof Fungus	Polyporaceae	2	Białowieża forest
. omoo fomontalias	110011 diliguo	. oryporadoad		DIGIOWIOZU IOIGGE
Lecanoromycetes	LICHENS			
Cladonia coniocraea	Common Powderhorn	Cladoniaceae	3	Białowieża forest
Cladonia digitata	Finger Cup Lichen	Cladoniaceae	4	Białowieża forest
Cladonia rangiferina	Gray Reindeer Lichen	Cladoniaceae	4	Białowieża forest

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Latin name	English name	Family	Day	Location
Evernia prunastri	Oakmoss	Parmeliaceae	3	Białowieża forest
Hypogymnia physodes	Hooded Tube Lichen	Parmeliaceae	3	Białowieża forest
Parmelia sulcata	Shield Lichen	Parmeliaceae	2	Białowieża forest
	Common Sunburst			
Xanthoria parietina	Lichen	Teloschistaceae	2	Białowieża forest



Yellow-spotted White-faced Darter



Roe Deer