

# SLOVENIA and HUNGARY

## *Butterflies and Wildlife*

15 – 22 July 2014

### **Leader:**

Attila Steiner

### **Local Guides and Experts:**

Rudi Verovnik (butterflies, Slovenia)

Szabolcs ("Safi") Sáfián (butterflies and moths, Hungary)

Tibor Danyik (general entomology, Hungary)

### **Participants:**

Judy Dunworth

Dave Holberton-Jones

Susan and Stephen Place

### **INTRODUCTION**

Slovenia and the adjoining part of Hungary is an area particularly rich in butterflies. It is relatively sparsely populated and has extensive forests and meadowlands. Within this relatively small area there is also a considerable variety of habitat brought about by differences in altitude and geology. In the south of Slovenia the landscape is hilly; to the north are the Julian Alps; and the east of the country and adjoining Hungary are lowland. These differences make for a considerable variety of meadow types with a consequent diversity of wild flowers. These ecosystems have undergone rapid change over the last 50 years with modernisation of agricultural practices, the most notable of which has been the reduction in animal husbandry throughout the region. This has led to the area of forest covering Slovenia doubling – to about 60% – as pasture has been abandoned. Forest grazing has also been discontinued. Upland grazing by sheep and goats used to favour low-growing plants, so the larval foodplants of some species, such as False Grayling, Tree Grayling and Apollo have become scarcer leading to a significant decline in their numbers whilst the Danube Clouded Yellow has been lost to the area completely.

The aim of the trip was to visit a selection of the major habitat types to see as much as possible of the butterfly fauna, which includes a wide variety of blues (including all of the European *Maculinea* large blues) and fritillaries and, at higher altitudes, ringlets. We were also looking in these habitats for other taxa, particularly invertebrates.

### **SUMMARY**

Overall, our tour was extremely successful. We achieved our objective of seeing all four currently-recognised species of large blue, including upland and lowland forms of both "common" Large Blue and Alcon Blue. We saw the majority of the upland ringlets possible at this time of year, including both Styrian and Stygian Ringlets and the eastern alpine endemic Lorkovic's Brassy Ringlet. In total we saw 116 species of butterfly.

Good weather conditions meant that we were able to fully appreciate the major habitat types we visited. In particular, the many types of meadow were spectacularly flowery and the diversity of plants supported a wonderfully diverse population of invertebrates. Our small party was also able to benefit considerably from the great expertise of all of the local guides and experts used.

## **DAILY REPORT**

**Tuesday 15 July**

### **Ljubljana to Pivka**

The afternoon flight from Stansted to Ljubljana arrived on time and we were quickly on our way towards Pivka, where we were staying at a small farm that provided excellent accommodation just outside the town.

We had sufficient time before dinner to make a brief exploration of the valley at around 500 metres above sea level, which was principally meadowland with a few small strips of crops and produce surrounded by forest. A strip of Indian Hemp *Cannabis sativa* was particularly attractive to Stonechats and Whinchats. Other birds heard or seen included Raven, Hawfinch, Serin and Linnet. Butterflies were limited to common grassland species, including the very dark local form of Marbled White. Our first mammal for the trip was a Brown Hare.

**Wednesday 16 July**

### **The South-West Littoral Region and the Slovenian Karst Rim**

At breakfast Rudi joined us and we set off on the short journey into the south-western corner of Slovenia, which is bounded by the Italian and Croatian borders and the Adriatic Sea.

Our first stop was at 1,000 metres at the top of Mount Slavnik, which we accessed up an unmade road through forest containing much Hornbeam. From here we had a good view of Trieste and, in theory at least, it was also possible to see Venice. The hillside was very exposed and the wind limited numbers of butterflies flying. Nevertheless we saw Scotch Argus, Woodland and Great-banded Graylings, Great Sooty Satyr, Mountain Brown Argus, and Blue-spot Hairstreak. Fritillaries included Dark-green, Silver-washed, Niobe and Spotted. Plants along the track included many Dark-red Helleborine.



Great Sooty Satyr (*Satyrus ferula*) male at Mount Slavnik © David Holberton-Jones

From there we headed to the more sheltered Sočerga, where we almost immediately found an Italian Wall Lizard. Butterflies at this location included: Idas, Reverdin's, Chapman's, Eastern Baton, and Long-tailed Blues; Cardinal and Wall. The Long-tailed Blue was found in an extensive area of one of its larval foodplants, Bladder Senna *Colutea arborescens*. Another common plant in at this location was the Eurasian Smoketree *Cotinus coggygria*. Birds were also good with numbers of Red-backed Shrikes, Corn Buntings and Woodlarks. A Honey Buzzard and a Short-toed Eagle both gave good in-flight views while we lunched.

We made a couple of stops in Alfalfa (*Lucerne Medicago sativa*) fields near Hrastovlje but saw little new. From there we went to the village of Osp, nestling under the Karst Rim cliffs, which were home to large numbers of Alpine Swifts and House Martins. As we walked down to the village we saw a handsome Dalmatian Algyroides with a bright blue chin. Butterflies here included Southern Small White, Southern White Admiral, Southern Comma, and Chequered Blue. A Griffon Vulture flew high over the cliff.

After a stop for ice cream and a beer we went to our final location, a stony hillside where once there had been Tree Grayling, now likely lost due to lack of grazing. However, we did see Purple Hairstreak and saw our third *Plebejus* of the day – Silver-studded Blue, taking our total butterfly count for the day past 60. The possible highlight of this site was the grasshopper *Prionotropis hystrix*, in which the male is large and yellowish in colour and the female even larger and brown.

We returned to our accommodation for an excellent meal and some samples from the farm's cellar of home-made liqueurs.

**Thursday 17 July**

**Mount Nanos and the Croatian Border**

Our principal objective for the day was to explore Mount Nanos, a large standing stone plateau, 12 kilometres long by 6 kilometres wide. At its highest point it stands 1,313 metres above sea level. We concentrated on the western slopes, part of a 2,600 hectare national park, which we accessed by driving to the church of Saint Jerome below the Pleša Peak.

Our journey there contained much of interest. *En route* we were surprised to see a Black Stork flying overhead. The twisty road up the western slope was used to bask by Common Wall Lizards and we found two splendid beetles: a very fresh small male Stag Beetle and the beech and oak specialist longhorn beetle *Morimus funereus*. After parking near the church virtually the first butterfly we found was a Tufted Marbled Skipper. Other butterflies seen here included a male of the dry grassland form of the Alcon Blue (until recently was generally regarded as a separate species, Mountain Alcon Blue *Maculinea rebeli*); many Great Sooty Satyrs; Twinspot, Heath and Lesser Marbled Fritillaries; Blue-spot and Sloe Hairstreaks; and Meleager's Blue.

We then drove a little way back down the hill to a spring with very welcome cool drinking-water. On the rock-faces here we finally located Styrian Ringlet and saw more Dalmatian Algyroides. Other things of note here were a Balkan Emerald Dragonfly and Mueller's Helleborine *Epipactis muelleri*.



Styrian Ringlet (*Erebia stirijs*) at Mount Nanos © Attila Steiner

Our next destination was Babno Polje on the Croatian border, which is statistically the coldest place in Slovenia. The first forest trail we walked was very flowery, with great drifts of the pretty blue and yellow cow-wheat *Melampyrum bihariense* and both Martagon and Carniolan Lilies *Lilium martagon* and *L. carniolicum*. The weather here, however, was rather too dull and damp for

butterflies. We drove on a little way, re-entering the forest near some bee-hives protected from predation by bears by electric fences. In this area two of us had a brief view of a Woodland Brown, and we also saw Arran Browns and a Marbled Fritillary. This area had many Dark Red Helleborines and Fragrant Orchids. As we left a flock of about 20 Fieldfares was moving through nearby meadows.

We drove back to our accommodation virtually all the way through vast tracts of forest – principally pine and beech – in the faint hope of seeing bears. This natural forest is best for Brown Bears in Slovenia and also contains Wolf and European Lynx but, unsurprisingly, we saw none of them. The drive through the forest was nevertheless very interesting as the forest, like many of the trees near where we were staying, had sustained great damage during the winter from a downpour of freezing rain that had left all trees coated in five or more centimetres of ice and was then followed by very strong winds. Throughout this forest virtually all trees had sustained some damage and in some areas 10-20% of them had been blown down.

### **Friday 18 July**

#### **To the Julian Alps**

We made an earlier start than usual to drive to our second base beneath the Julian Alps near the Italian border. In order to have as much time there as possible we took the motorway until Nova Gorica.

Our first stop was at Log, where we set off on a trail along the Soca river much used by rafters and kayakers until a point where a landslip had completely obliterated the path. Here we saw our first “common” Large Blue of the trip and the hillside contained several Apollos. Other butterflies here included Mountain Small White; numerous Sooty Coppers and a few Purple-shot Coppers; Ringlet; Dryad; and Chalkhill and Adonis Blues. Other taxa included a Goshawk circling a distant mountain-top and both Green and Viviparous Lizards.



Apollo (*Parnassius apollo*) at Log © Attila Steiner

Rudi's first-choice site for Stygian Ringlet had been on the escarpment beyond where the path now ended so we went to an alternative site, the Boka waterfall near the village of Bovec. After climbing to a viewpoint to admire the 100+ metre drop of the waterfall we clambered down to the boulder-strewn river-bed below, where we saw a couple of Stygian Ringlets, one of which settled on a distant boulder giving us reasonably good telescope views.

We then went higher to the Vršič Pass at 1,600 metres above sea level. Here, the butterfly fauna was markedly different with Mountain Green-veined White and Alpine Heath the dominant species. Other species seen included Asian Fritillary; and Bright-eyed, Dewy, Mountain, Blind and Large Ringlets. A rather worn Narrow-bordered Bee-hawk Moth was also seen.



Asian Fritillary (*Euphydryas intermedia*) male at Vrsic Pass © David Holberton-Jones

Our final stop for the evening was on a rocky hillside near Soča, which Rudi had previously found good for basking Nose-horned Vipers. We were unable to locate any vipers but the stop was made worthwhile by finding a Marbled White of the occasional female form *leucomelas* that has a plain yellowish-white underside hind-wing.

Our hotel accommodation in the village of Log pod Mangartom was pleasant as was an associated restaurant nearby in the village where we dined.

### **Saturday 19 July**

#### **Higher in the Julian Alps**

We drove up Mount Mangart to a height of approximately 2,000 metres. From the car park we walked up to a meadow favoured by hang-glider enthusiasts and then took a level but rocky path a kilometre or so across to a lovely flowery alpine meadow, which we had to ourselves despite the large numbers of holidaymakers and weekenders at the car park. The flora included large numbers of Black Vanilla Orchid *Nigritella nigra* and Small White Orchid *Pseudorchis albida*. Butterflies included the diminutive high altitude form of the Woodland Ringlet and rather dusky Marsh Fritillaries. We also found Lorkovic's Brassy Ringlet but failed to find our other target species of Yellow-spotted Ringlet. The birdlife at this altitude was also different and included Alpine Chough, Alpine Accentor and Water Pipit. The avian highlight was a Raven mugging an Alpine Chough and circling down to catch in mid-air the piece of food the chough had been forced to drop.



Marsh Fritillary (*Euphydryas aurinia*) on Mangart © David Holberton-Jones

We ate our picnic lunch a couple of hundred metres lower. Afterwards, we explored the nearby rocky meadows which were very productive for butterflies. Within the course of 10 minutes we were able to examine a Silky Ringlet that Rudi had netted, followed in quick succession by a Warren's Skipper and a Large Blue. This mountainside is the only location known for Warren's Skipper in Slovenia. The Large Blue was of the darker mountain form and although not as dark as is possible very handsome.

After heading back down the mountain we visited two more sites. The first was a hillside near the village where we were staying where we saw several more Styrian Ringlets. From there we visited meadows at Bavšica, which yielded a further six Apollos.

After dinner it was time to say our farewells to Rudi, who had made a splendid contribution to the success of the trip.

### **Sunday 20 July**

#### **To the Hungarian Border**

We made a brief stop in woodland near our hotel while we waited for our packed lunches to be completed, where we saw Crested Tits and heard Grey Wagtail. We took the quickest route out of Log pod Mangartom, which briefly took us into Italy. On re-entering Slovenia we stopped at Planica near the little town of Kranjska Gora to visit a hillside site recommended by Rudi. Here we quickly located Geranium Argus and saw several False Heath Fritillaries. We watched what was unmistakably a Poplar Admiral crossing the meadow below the hill and found a Ruddy Darter dragonfly.

We then drove to the Órség National Park in Hungary, near the border at Kercaszomor, stopping only at a service area to take lunch. Upon arrival, we met up with Tibor and set off into the

reserve, where we quickly located our first Scarce Large Blues. We were soon joined there by Szabolcs Sáfián (“Safi”), director of conservation for the reserve, who hosted our visit to the site. He quickly found us a population of Dusky Large Blues, explaining that these insects prefer shade in the heat of the afternoon. Both Scarce and Dusky Large Blues use burnet plants as their larval foodplants and we were able to watch females of both ovipositing on Great Burnet *Sanguisorba officinalis*, Scarce on buds, Dusky on fully opened flowers. We also saw the lowland form of Alcon Blue and clusters of its white eggs on the flowers of Marsh Gentian *Gentiana pneumonanthe*. Other butterflies seen here included Map; Duke of Burgundy; and Small Pearl-bordered and Weaver’s Fritillaries. Other insects included Wart-biter (cricket) *Decticus verrucivorus*. Birds, which seemed more numerous generally on the Hungarian side of the border, included White Storks and Turtle Dove and the much damper habitat provided our first amphibian, a large Agile Frog.



Scarce Large Blue (*Macquinea teleius*) male at Kercaszomor © David Holberton-Jones

We then re-crossed the border back into Slovenia to our final hotel, another comfortable place in the unprepossessing spa town of Moravske Toplice.

### **Monday 21 July**

#### **Revisit Őrség National Park and surrounding area**

After breakfast, which featured a platter of splendid home-cured meats and sausages made by the proprietor, we headed back to Őrség, where Safi showed us several more areas of this beautiful reserve and described the conservation methods being employed. Although the weather was a little more overcast we saw good butterflies, including Dryad, Scarce Copper, Short-tailed Blue, Common Glider and both Grizzled and Oberthur’s Grizzled Skippers, in addition to many more large blues.



Large Chequered Skipper (*Heteropterus morpheus*) at Kercaszomor © Attila Steiner

The second site we visited produced the greatest highlights. First, we had our first definite sightings of the very pretty Large Chequered Skipper, which has a very characteristic flight pattern. Then Safi found us a male Large Copper with a seemingly uncommon aberration in which several of the black spots on the underside are elongated into streaks. Other insects seen included the dragonflies Blue Featherleg, Balkan Emerald and Blue-eyed Hawker; Praying Mantis *Mantis religiosa*; larvae of the Pine Jewel Beetle *Buprestis mariana*; Great Diving-beetle *Dytiscus marginalis*; and Water Scorpion *Nepa cinerea*. During the day amphibians included Yellow-bellied Toads and birds were good again, with good numbers of Hawfinches, Turtle Doves and Tree Sparrows. We also saw a European crayfish *Astacus astacus* that Tibor wrangled from a stream for us to inspect closely.



Large Copper (*Lycaena dispar*) male aberration at Kercaszomor © David Holberton-Jones

We took supper at an excellent local restaurant that specialised in fish dishes before going back to Safi's house where he ran a couple of moth traps. Moth highlights from the traps included good numbers of Small Elephant Hawks; Pine Hawks; and Plum Lappet *Odonestis pruni*. The most notable other insect attracted to the traps was a Mantis Fly *Mantispa styriaca*. Slightly the worse for wear, we said thanked Safi for his hospitality and providing us with so many excellent insights into his conservation work.

## **Tuesday 23 July**

### **River Mura and return to Ljubljana**

The plan for our last morning was to again cross the border into Hungary to look for Freyer's Purple Emperor in the riparian woodlands of the River Mura. However, the weather was against us and we were happy to be able to walk this wetland habitat before the rain set in in earnest. The wet underfoot conditions meant that wildlife was dominated by molluscs, particularly the highly invasive, non-native Spanish Slug *Arion vulgaris*. Birds included Golden Oriole, Black Stork, Marsh Harrier and our first Black Kite. Our best insect sighting was the dragonfly Western Willow Spreadwing *Lestes viridis*. Sadly the time had come to bid farewell to Tibor and for the rest of us to return Ljubljana for the return flight to London.

## SPECIES LIST

### BUTTERFLIES

Dingy Skipper	<i>Erynnis tages</i>	common
Mallow Skipper	<i>Carcharodus alceae</i>	Hrastovlje
Tufted Marbled Skipper	<i>Carcharodus flocciferus</i>	1 at Nanos
Grizzled Skipper	<i>Pyrgus malvae</i>	Kercaszomor
Oberthür's Grizzled Skipper	<i>Pyrgus armoricanus</i>	1 at Kercaszomor
Warren's Skipper	<i>Pyrgus warrenensis</i>	1 at Mangart
Large Chequered Skipper	<i>Heteropterus morpheus</i>	4 at Kercaszomor
Essex Skipper	<i>Thymelicus lineola</i>	fairly common
Small Skipper	<i>Thymelicus silvestris</i>	common
Large Skipper	<i>Ochlodes sylvanus</i>	common
Apollo	<i>Parnassius apollo</i>	8 at Log, 6 at Bavsica
Clouded Apollo	<i>Parnassius mnemosyne</i>	Mangart
Swallowtail	<i>Papilio machaon</i>	common
Scarce Swallowtail	<i>Iphiclides podalirius</i>	Slavnik, Nanos, Kercaszomor
Wood White	<i>Leptidea sinapis</i>	common
Black-veined White	<i>Aporia crataegi</i>	Babno Polje, Planica,
Kercaszomor		fairly common
Large White	<i>Pieris brassicae</i>	fairly common
Green-veined White	<i>Pieris napi</i>	common
Mountain Green-veined White	<i>Pieris bryoniae</i>	Vrsic Pass, Mangart
Small White	<i>Pieris rapae</i>	common
Southern Small White	<i>Pieris mannii</i>	Osp, Nanos
Mountain Small White	<i>Pieris ergane</i>	Log, Moznica
Eastern Bath White	<i>Pontia edusa</i>	Hrastovlje
Clouded Yellow	<i>Colias croceus</i>	Pivka, Hrastovlje, Mangart
Berger's Pale Clouded Yellow	<i>Colias alfacariensis</i>	Hrastovlje
Brimstone	<i>Gonepteryx rhamni</i>	common
Duke of Burgundy	<i>Hamearis lucina</i>	Kercaszomor
Small Copper	<i>Lycaena phlaeas</i>	Socerga (leader only)
Sooty Copper	<i>Lycaena tityrus</i>	fairly common
Scarce Copper	<i>Lycaena virgaureae</i>	2 at Kercaszomor
Purple-shot Copper	<i>Lycaena alciphron</i>	Log, Soca, Planica
Purple-edged Copper	<i>Lycaena hippothoe</i>	Vrsic Pass, Kercaszomor
Large Copper	<i>Lycaena dispar</i>	1 aberration form at Kercaszomor
Purple Hairstreak	<i>Neozephyrus quercus</i>	Kastelec, Nanos, Kercaszomor
Blue-spot Hairstreak	<i>Satyrium spini</i>	Slavnik, Nanos
Sloe Hairstreak	<i>Satyrium acaciae</i>	Nanos
Long-tailed Blue	<i>Lampides boeticus</i>	1 at Socerga
Geranium Bronze	<i>Cacyreus marshalli</i>	Osp
Little Blue	<i>Cupido minimus</i>	common
Short-tailed Blue	<i>Cupido argiades</i>	Kercaszomor
Provençal Short-tailed Blue	<i>Cupido alctas</i>	Hrastovlje
Holly Blue	<i>Celastrina argiolus</i>	Hrastovlje
Eastern Baton Blue	<i>Pseudophilotes vicrama</i>	Socerga, Kercaszomor
Chequered Blue	<i>Scoliantides orion</i>	Osp, Nanos, Log
Large Blue	<i>Maculinea arion</i>	Log, Mangart

Scarce Large Blue	<i>Maculinea teleius</i>	Kercaszomor
Dusky Large Blue	<i>Maculinea nausithous</i>	Kercaszomor
Alcon Blue	<i>Maculinea alcon</i>	Nanos, Kercaszomor
Silver-studded Blue	<i>Plebejus argus</i>	Kastelec, Planica
Idas Blue	<i>Plebejus idas</i>	Slavnik, Nanos, Kercaszomor
Reverdin's Blue	<i>Plebejus argyrognomon</i>	Hrastovlje, Nanos
Geranium Argus	<i>Aricia eumedon</i>	4 at Planica
Brown Argus	<i>Aricia agestis</i>	Socerga, Nanos, Kercaszomor
Mountain Argus	<i>Aricia artaxerxes</i>	Slavnik, Vrsic Pass, Soca,
Mangart, Moznica		
Mazarine Blue	<i>Cyaniris semiargus</i>	Vrsic Pass, Mangart, Kercaszomor
Chapman's Blue	<i>Polyommatus thersites</i>	Hrastovlje
Common Blue	<i>Polyommatus icarus</i>	common
Meleager's Blue	<i>Polyommatus daphnis</i>	Nanos
Adonis Blue	<i>Polyommatus bellargus</i>	Log
Chalk-hill Blue	<i>Polyommatus coridon</i>	Log, Soca, Moznica, Bavsica
Silver-washed Fritillary	<i>Argynnis paphia</i>	common
Cardinal	<i>Argynnis pandora</i>	1 at Socerga
Dark Green Fritillary	<i>Argynnis aglaja</i>	common
Niobe Fritillary	<i>Argynnis niobe</i>	Slavnik
Queen of Spain Fritillary	<i>Issoria lathonia</i>	Slavnik, Nanos, Kercaszomor
Lesser Marbled Fritillary	<i>Brenthis ino</i>	Nanos
Marbled Fritillary	<i>Brenthis daphne</i>	Babno Polje
Twin-spot Fritillary	<i>Brenthis hecate</i>	Slavnik, Nanos, Planica
Small Pearl-bordered Fritillary	<i>Boloria selene</i>	Kercaszomor
Weaver's Fritillary	<i>Boloria dia</i>	Kercaszomor
Asian Fritillary	<i>Euphydryas intermedia</i>	3 at Vrsic Pass
Marsh Fritillary	<i>Euphydryas aurinia</i>	Mangart
Knapweed Fritillary	<i>Melitaea phoebe</i>	Hrastovlje, Planica
Spotted Fritillary	<i>Melitaea didyma</i>	common
False-heath Fritillary	<i>Melitaea diamina</i>	Planica
Heath Fritillary	<i>Melitaea athalia</i>	Nanos, Log, Soca, Mangart,
Kercaszomor		
Red Admiral	<i>Vanessa atalanta</i>	common
Painted Lady	<i>Vanessa cardui</i>	common
Peacock Butterfly	<i>Inachis io</i>	common
Small Tortoiseshell	<i>Aglais urticae</i>	common in the mountains
Comma Butterfly	<i>Polygonia c-album</i>	Slavnik, Babno Polje, Log
Southern Comma	<i>Polygonia egea</i>	1 at Osp
Large Tortoiseshell	<i>Nymphalis polychloros</i>	Kastelec, Nanos
Map Butterfly	<i>Araschnia levana</i>	2nd brood at Kercaszomor
White Admiral	<i>Limenitis camilla</i>	Babno Polje, Log pod Mangartom
Southern White Admiral	<i>Limenitis reducta</i>	Osp, Nanos
Poplar Admiral	<i>Limenitis populi</i>	1 in flight at Planica
Common Glider	<i>Neptis sappho</i>	Szóce
Speckled Wood	<i>Pararge aegeria</i>	common
Large Wall Brown	<i>Lasiommata maera</i>	Nanos, Vrsic Pass, Moznica
Wall Brown	<i>Lasiommata megera</i>	Slavnik, Nanos, Kercaszomor
Woodland Brown	<i>Lasiommata achine</i>	Babno Polje

Gatekeeper	<i>Pyronia tithonus</i>	Hrastovlje
Ringlet	<i>Aphantopus hyperanthus</i>	Log, Kercaszomor
Meadow Brown	<i>Maniola jurtina</i>	common
Small Heath	<i>Coenonympha pamphilus</i>	common
Chestnut Heath	<i>Coenonympha glycerion</i>	Slavnik, Nanos
Pearly Heath	<i>Coenonympha arcania</i>	common in Slovenia
Alpine Heath	<i>Coenonympha gardetta</i>	Vrsic Pass, Mangart
Arran Brown	<i>Erebia ligea</i>	Babno Polje
Large Ringlet	<i>Erebia euryale</i>	Vrsic Pass
Woodland Ringlet	<i>Erebia medusa</i>	Mangart
Bright-eyed Ringlet	<i>Erebia oeme</i>	common at Vrsic Pass, Mangart
Styrian Ringlet	<i>Erebia stirijs</i>	Nanos, Vrsic Pass, Moznica
Stygian Ringlet	<i>Erebia styx</i>	3-4 at Boka waterfall
Scotch Argus	<i>Erebia aethiops</i>	Slavnik, Moznica
Blind Ringlet	<i>Erebia pharte</i>	1 at Vrsic Pass
Silky Ringlet	<i>Erebia gorge</i>	Mangart
Mountain Ringlet	<i>Erebia epiphron</i>	Vrsic Pass, Mangart
Dewy Ringlet	<i>Erebia pandrose</i>	Vrsic Pass, Mangart
Lorkovic's Ringlet	<i>Erebia calcaria</i>	Mangart
Marbled White	<i>Melanargia galathea</i>	common
Great Sooty Satyr	<i>Satyrus ferula</i>	Slavnik, Nanos, Log
Dryad	<i>Minois dryas</i>	Log, Kercaszomor
Great Banded Grayling	<i>Brinthesia circe</i>	Slavnik, Nanos, Kercaszomor
Woodland Grayling	<i>Hipparchia fagi</i>	Slavnik, Nanos
Grayling	<i>Hipparchia semele</i>	Slavnik

## MOTHS

<i>Pyrausta cingulata</i>		Mangart
<i>Zeuzera pyrina</i>	Leopard Moth	Kercaszomor moth evening
<i>Zygaena filipendulae</i>	Six-spot Burnet	Slavnik
<i>Zygaena transalpina</i>		Nanos
<i>Zygaena trifolii</i>	Five-spot Burnet	Slavnik
<i>Dendrolimnus pini</i>	Pine-tree Lappet	Kercaszomor moth evening
<i>Lasiocampa quercus</i>	Oak Eggar	Mangart, Kercaszomor
<i>Odonestis pruni</i>	Plum Lappet	Kercaszomor moth evening
<i>Phyllodesma tremulifolia</i>	Aspen Lappet	Kercaszomor moth evening
<i>Hyloicus pinastris</i>	Pine Hawkmoth	Kercaszomor moth evening
<i>Deilephila porcellus</i>	Small Elephant Hawkmoth	Kercaszomor moth evening
<i>Hemaris tytijs</i>	Narrow-bordered Bee Hawkmoth	Vrsic Pass
<i>Macroglossum stellatarum</i>	Hummingbird Hawkmoth	Slavnik
<i>Drepana falcataria</i>	Pebble Hook-tip	Kercaszomor moth evening
<i>Habrosyne pyritoides</i>	Buff Arches	Kercaszomor moth evening
<i>Thyatira batis</i>	Peach Blossom	Kercaszomor moth evening
<i>Acronicta alni</i>	Alder Moth	Kercaszomor moth evening
<i>Ascotis selenaria</i>	Giant Looper	Kercaszomor moth evening
<i>Biston betularia</i>	Peppered Moth	Kercaszomor moth evening
<i>Catarhoe rubidata</i>	Ruddy Carpet	Kercaszomor moth evening
<i>Chiasmia clathrata</i>	Latticed Heath	Log pod Mangartom

Chlorissa cloraria	Southern Grass Emerald	Kercaszomor moth evening
Cyclophora linearia	Clay Triple-lines	Kercaszomor moth evening
Ematurga atomaria	Common Heath	Kercaszomor moth evening
Hypomecis punctinalis	Pale Oak Beauty	Kercaszomor moth evening
Hypomecis roboraria	Great Oak Beauty	Log, Kercaszomor moth evening
Hypoxystis pluviaria		Kercaszomor moth evening
Idea aversata	Riband Wave	Kercaszomor moth evening
Ligdia adustata	Scorched Carpet	Kercaszomor moth evening
Lomographa bimaculata	White-pinion Spotted	Kercaszomor moth evening
Macaria liturata	Tawny-barred Angle	Kercaszomor moth evening
Noctua interjecta	Least Yellow Underwing	Kercaszomor moth evening
Noctua pronuba	Large Yellow Underwing	Mangart
Polypogon tentacularia		Kercaszomor moth evening
Pseudopanthera macularia	Speckled Yellow	Mangart
Rivula sericealis	Straw Dot	Kercaszomor moth evening
Scotopteryx chenopodiata	Shaded Broad-bar	Planica
Drymonia obliterata	Indistinct Marbled Brown	Kercaszomor moth evening
Gluphisia crenata	Dusky Marbled Brown	Kercaszomor moth evening
Notodonta dromedarius	Iron Prominent	Kercaszomor moth evening
Phalera bucephala	Buff-tip	Kercaszomor moth evening
Ptilodon cucullina	Maple Prominent	Kercaszomor moth evening
Spatalia argentina	Argentine	Kercaszomor moth evening
Lymantria dispar	Gypsy Moth	Kercaszomor moth evening
Penthopha murio		Kercaszomor
Amata phegea	Nine-spotted Moth	common
Eilema complana	Scarce Footman	Kercaszomor moth evening
Eilema sororcula	Orange Footman	Kercaszomor moth evening
Lithosia quadra	Four-spotted Footman	Kercaszomor moth evening
Callimorpha dominula	Scarlet Tiger	Babno Polje
Diacrisia sannio	Clouded Buff	Kercaszomor
Euplagia quadripunctaria	Jersey Tiger	Kercaszomor
Parasemia plantaginis	Wood Tiger	Mangart
Phragmatobia fuliginosa	Ruby Tiger	Kercaszomor moth evening
Spilosoma lubricipeda	White Ermine	Kercaszomor moth evening
Autographa gamma	Silver Y	common
Colocasia coryli	Nut-tree Tussock	Kercaszomor moth evening
Colobochoyla salicalis	Lesser Belle	Kercaszomor moth evening
Cryphia algae	Tree-lichen Beauty	Kercaszomor moth evening
Deltote bankiana	Silver Barred	Kercaszomor moth evening
Euclidia glyphica	Burnet Companion	Kastelec
Laspeyria flexula	Beautiful Hook-tip	Kercaszomor moth evening
Melanchra persicariae	Dot Moth	Kercaszomor moth evening
Phytometra viridaria	Small Purple-barred	Mangart
Pseudoips prasinana	Green Silver-lines	Kercaszomor moth evening

## DRAGONFLIES

Beautiful Demoiselle	Calopteryx virgo	Hrastovlje, Kercaszomor
Western Willow Spreadwing	Lestes viridis	Letenye

Blue Featherleg	<i>Platycnemis pennipes</i>	Kercaszomor
Blue-eyed Hawker	<i>Aeshna affinis</i>	Kercaszomor
Balkan Emerald	<i>Somatochlora meridionalis</i>	Nanos, Kercaszomor
Broad-bodied Chaser	<i>Libellula depressa</i>	Osp
Keeled Skimmer	<i>Orthetrum coerulescens</i>	Szóce
Ruddy Darter	<i>Sympetrum sanguineum</i>	Planica, Kercaszomor
Moustached Darter	<i>Sympetrum vulgatum</i>	Kercaszomor
Southern Darter	<i>Sympetrum meridionale</i>	Kercaszomor
<b>OTHER INSECTS</b>		
Raft-spider	<i>Dolomedes fimbriatus</i>	Szóce
Noble crayfish	<i>Astacus astacus</i>	Szóce
Water Scorpion	<i>Nepa cinerea</i>	Kercaszomor
Praying Mantis	<i>Mantis religiosa</i>	Mt Nanos, Kercaszomor
Blue-winged Grasshopper	<i>Oedipoda coerulescens</i>	Kercaszomor
Large Conehead	<i>Ruspolia nitidula</i>	Kercaszomor
Short-winged Conehead	<i>Conocephalus dorsalis</i>	Kercaszomor
	<i>Prionotropis hystrix</i>	Kastelec
Saw-tailed Bush-cricket	<i>Barbitistes serricauda</i>	Mt Nanos
Roesel's Bush-cricket	<i>Metrioptera roeseli</i>	Mt Slavnik
Green Mountain Grasshopper	<i>Miramella alpina</i>	Mt Slavnik
Wart-biter	<i>Decticus verrucivorus</i>	Kercaszomor
	<i>Libelloides macaronius</i>	Mt Slavnik
European Mantid Fly	<i>Mantispa styriaca</i>	Kercaszomor
Large Pied-hoverfly	<i>Volucella pellucens</i>	Babno Polje
	<i>Scolia hirta</i>	Kercaszomor
Dead-nettle Leaf Beetle	<i>Chrysolina fastuosa</i>	Mangart
Flatheaded Pine Borer	<i>Chalcophora mariana</i>	larvae, Kercaszomor
Great Diving-beetle	<i>Dytiscus marginalis</i>	Kercaszomor
Poplar Leaf Beetle	<i>Chrysomela populi</i>	Kercaszomor
Spotted Longhorn Beetle	<i>Rutpela maculata</i>	Mt Nanos
Capricorn Beetle	<i>Cerambyx scopolii</i>	Log
	<i>Morimus funereus</i>	Mt Nanos
Stag Beetle	<i>Lucanus cervus</i>	Mt Nanos
	<i>Hoplia argentea</i>	Mt Nanos
	<i>Trichius fasciatus</i>	Mt Nanos
	<i>Otiorhynchus cardiniger</i>	Mt Nanos
	<i>Cteniopus sulphureus</i>	Mt Nanos
<b>BIRDS</b>		
Mute Swan	<i>Cygnus olor</i>	2 on river Drava en route
Mallard	<i>Anas platyrhynchos</i>	1 on river Soca
Black Stork	<i>Ciconia nigra</i>	1 seen from motorway near Nanos, 1 in a field near Letenye
White Stork	<i>Ciconia ciconia</i>	first at Lake Cerknica, many in Hungary
Grey Heron	<i>Ardea cinerea</i>	1 on river Soca, 1 in a field near Kercaszomor
Griffon Vulture	<i>Gyps fulvus</i>	1 flying high at Osp

Black Kite	<i>Milvus migrans</i>	1 in a field near Letenye
European Honey Buzzard Nanos	<i>Pernis apivorus</i>	1 in flight at Socerga, 1 at Mt
Short-toed Snake Eagle	<i>Circaetus gallicus</i>	1 at Socerga
Northern Goshawk	<i>Accipiter gentilis</i>	1 circling high at Log
Western Marsh Harrier near Letenye	<i>Circus aeruginosus</i>	1 at Lake Cerknica, 6 in a filed
Common Buzzard	<i>Buteo buteo</i>	seen every day
Common Kestrel	<i>Falco tinnunculus</i>	seen every day
Eurasian Hobby Pivka	<i>Falco subbuteo</i>	1 seen by David in the morning at
Green Sandpiper	<i>Tringa ochropus</i>	1 seen in flight near Letenye
Feral Dove	<i>Columba livia feral</i>	seen every day
Common Wood Pigeon	<i>Columba palumbus</i>	fairly common in the lowlands
European Turtle Dove region	<i>Streptopelia turtur</i>	heard and seen in the Órség
Eurasian Collared Dove Goricko and Órség	<i>Streptopelia decaocto</i>	common in villages and towns in
Alpine Swift seen also in Log pod Mangartom	<i>Tachymarptis melba</i>	breeding on the high crags at Osp,
Common Swift	<i>Apus apus</i>	seen frequently in the first 5 days
European Bee-eater near Szóce in Órség	<i>Merops apiaster</i>	2 birds hunting from the wire
Middle Spotted Woodpecker	<i>Dendrocopos medius</i>	1 heard at Szóce study trail
Syrian Woodpecker	<i>Dendrocopos syriacus</i>	heard in Moravske Toplice
Great Spotted Woodpecker	<i>Dendrocopos major</i>	seen in Kercaszomor
European Green Woodpecker	<i>Picus viridis</i>	heard and seen in Kercaszomor
Red-backed Shrike regions	<i>Lanius collurio</i>	fairly common in the lower
Eurasian Golden Oriole Órség and several heard near Letenye	<i>Oriolus oriolus</i>	1 seen perched for a short time in
Eurasian Jay	<i>Garrulus glandarius</i>	seen on five days in woodlands
Eurasian Magpie	<i>Pica pica</i>	common roadside bird
Alpine Chough	<i>Pyrrhocorax graculus</i>	several flocks on Mangart
Hooded Crow	<i>Corvus cornix</i>	common
Northern Raven	<i>Corvus corax</i>	seen near Pivka and on Mangart
Marsh Tit	<i>Poecile palustris</i>	fairly common, seen on 5 days
Willow Tit	<i>Poecile montanus</i>	seen at Vrsic Pass
Coal Tit	<i>Periparus ater</i>	heard in the Julian Alps
European Crested Tit	<i>Lophophanes cristatus</i>	seen in Log pod Mangartom
Great Tit	<i>Parus major</i>	fairly common
Eurasian Blue Tit	<i>Cyanistes caeruleus</i>	heard or seen on 3 days only
Crested Lark	<i>Galerida cristata</i>	seen twice en route
Woodlark	<i>Lullula arborea</i>	1 singing bird at Socerga
Eurasian Skylark	<i>Alauda arvensis</i>	seen at Kastelec
Barn Swallow	<i>Hirundo rustica</i>	seen every day
Common House Martin	<i>Delichon urbicum</i>	seen every day
Eurasian Crag Martin in Moznica	<i>Ptyonoprogne rupestris</i>	4 seen at the Styrian Ringlet site

Long-tailed Tit	<i>Aegithalos caudatus</i>	heard at Kercaszomor
Common Chiffchaff	<i>Phylloscopus collybita</i>	heard or seen most days
Western Bonelli's Warbler	<i>Phylloscopus bonelli</i>	a family seen well at Log, several
at Log pod Mangartom during morning walks		
Eurasian Blackcap	<i>Sylvia atricapilla</i>	heard or seen most days
Common Whitethroat	<i>Sylvia communis</i>	1 near Pivka
Subalpine Warbler	<i>Sylvia cantillans</i>	1 heard calling at Hrastovlje
Eurasian Nuthatch	<i>Sitta europaea</i>	heard and seen in Kercaszomor
Short-toed Treecreeper	<i>Certhia brachydactyla</i>	1 heard by Attila near Letenye
Common Starling	<i>Sturnus vulgaris</i>	seen most days
Common Blackbird	<i>Turdus merula</i>	seen most days
Song Thrush	<i>Turdus philomelos</i>	seen on Nanos and in Szőce
Mistle Thrush	<i>Turdus viscivorus</i>	only seen at Log pod Mangartom
Fieldfare	<i>Turdus pilaris</i>	a post breeding flock seen at
Babno Polje		
European Robin	<i>Erithacus rubecula</i>	heard on 4 days in woodlands
Common Nightingale	<i>Luscinia megarhynchos</i>	heard calling at Hrastovlje
Black Redstart	<i>Phoenicurus ochruros</i>	seen on 5 days in villages
European Stonechat	<i>Saxicola rubicola</i>	seen near Kmetija na Meji and
Kercaszomor		
Whinchat	<i>Saxicola torquata</i>	common near Kmetija na Meji
Spotted Flycatcher	<i>Muscicapa striata</i>	seen at Osp and Kercaszomor
House Sparrow	<i>Passer domesticus</i>	common
Eurasian Tree Sparrow	<i>Passer montanus</i>	seen near Kmetija na Meji and
Kercaszomor		
Alpine Accentor	<i>Prunella collaris</i>	3 singing birds on Mangart
Dunnock	<i>Prunella modularis</i>	heard singing at Vrsic Pass
Grey Wagtail	<i>Motacilla cinerea</i>	1 at Log pod Mangartom
White Wagtail	<i>Motacilla alba</i>	common
Water Pipit	<i>Anthus spinoletta</i>	1 seen and several heard calling
on Mangart		
Common Chaffinch	<i>Fringilla coelebs</i>	common
Hawfinch	<i>Coccothraustes coccothraustes</i>	1 near Pivka, 6 seen perched at
Kercaszomor		
European Greenfinch	<i>Chloris chloris</i>	common
Common Linnet	<i>Linaria cannabina</i>	heard or seen on 3 days
European Goldfinch	<i>Carduelis carduelis</i>	fairly common, seen on 4 days
European Serin	<i>Serinus serinus</i>	common, seen on 6 days
Eurasian Siskin	<i>Spinus spinus</i>	heard at Vrsic Pass
Corn Bunting	<i>Emberiza calandra</i>	only at Socerga
Yellowhammer	<i>Emberiza citrinella</i>	heard at Socerga and seen at
Kercaszomor		
Rock Bunting	<i>Emberiza cia</i>	seen at Slavnik and Nanos, heard
at Soca		
Cirl Bunting	<i>Emberiza cirlus</i>	heard singing at Osp and Kastelec

## MAMMALS

Brown Hare	<i>Lepus europaeus</i>	1 near Pivka, 1 at Kercaszomor
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Red Fox Meji	<i>Vulpes vulpes</i>	1 seen by David at Kmetija na
Alpine Marmot	<i>Marmota marmota</i>	several heard on Mangart
Roe Deer	<i>Capreolus capreolus</i>	seen on 4 days

#### REPTILES

Dalmatian Algyroides	<i>Algyroides nigropunctatus</i>	seen at Osp and Mt Nanos
European Green Lizard	<i>Lacerta viridis</i>	1 at Log
Viviparous Lizard	<i>Zootoca vivipara</i>	1 at Log
Common Wall Lizard	<i>Podarcis muralis</i>	seen at Mt Nanos
Italian Wall Lizard	<i>Podarcis siculus</i>	1 seen at Socerga

#### AMPHIBIANS

Yellow-bellied Toad Szóce	<i>Bombina variegata</i>	several in a roadside pool at
Agile Frog	<i>Rana dalmatina</i>	1 at Kercaszomor
Marsh Frog	<i>Pelophylax ridibundus</i>	several near Letenye

#### FLOWERS

Fragrant Orchid Polje	<i>Gymnadenia conopsea</i>	common, first seen at Babno
Dark-red Helleborine	<i>Epipactis atrorubens</i>	common, first seen at Mt Slavnik
Mueller's Helleborine	<i>Epipactis muelleri</i>	Babno Polje
Broad-leaved Helleborine	<i>Epipactis helleborine</i>	Log pod Mangartom
Black Vanilla Orchid	<i>Nigritella nigra</i>	Mangart
Small White Orchid	<i>Pseudorchis albida</i>	Mangart
Red Helleborine	<i>Cephalanthera rubra</i>	Vrsic Pass
Wood Cow-wheat	<i>Melampyrum bihariense</i>	Babno Polje
Martagon Lily	<i>Melampyrum nemorosum</i>	Kercaszomor
Carnic Lily	<i>Lilium martagon</i>	Babno Polje, Mangart
Orange Lily	<i>Lilium carnolicum</i>	Babno Polje
Edelweiss	<i>Lilium bulbiferum</i>	Nanos, Mangart
Marsh Gentian	<i>Leontopodium albinum</i>	Mangart
Great Burnet	<i>Gentiana pneumonanthe</i>	Kercaszomor
	<i>Sanguisorba officinalis</i>	Kercaszomor

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**Budapest**

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