

Butterflies & Botany of the Eastern French Pyrenees 2016

Holiday Report 26 May- 02 June 2016

Led by Richard Lewington, David Moore and Yiannis Christofides



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Introduction

This spring butterfly and botanical holiday was based in the foothills of Mt Canigou, the sacred mountain for Catalonians on both sides of the French-Spanish border. Rising to 2,784 metres it dominates the eastern end of the Pyrenees near the French border with Spain and Andorra. The area is often referred to as French Catalonia and a minority of the population still speak the Catalan language. The dominant climatic influence of the Eastern Pyrenees is the Mediterranean and so the climate is warmer and the days sunnier than elsewhere in the Pyrenees. The area boasts a wide variety of habitats, including Mediterranean Garrigue, Holm, Downy Oak and Beech woods, schist and calcareous grasslands and alpine screes, all of which are home to a wealth of interesting butterflies and plants, a good number of which we were hoping to see. The holiday was led by Richard Lewington, David Moore and Yiannis Christofides. We stayed at a small hotel in Vernet-les-Bains. The guests joining us were Marilyn, Cynthia, Brian, John, Tony, Peter, Helen, Robert, Geoff, John, Carol, David and Barbara. What follows is a daily diary for the week, followed by gallery and species lists.

Day 1, Thursday 26th May, arrival at Perpignan and visit to Canigo foothills.

Our guests appeared through the gates at Perpignan Airport at 10:20 am and once everyone had been introduced, we made the hour's drive to our hotel. After unloading our cases, followed by a quick chat about the week's programme and lunch, we went out in search of butterflies. Though the weather forecast was good, the clouds obviously weren't paying attention. With little chance of any butterflies lower down, we ascended Canigou to try and find sunshine above the clouds.

Stop 1. We explored the roadside verges and soon found Sooty Copper, Adonis blue, Common Blue and Large Skipper. All were rather torpid after the morning cloud but some were just starting to climb up the grass and flower stems for warmth. Yiannis gave a little classroom on vetches.



Common Blue (f) © Peter



Sooty Copper © Peter

Stop 2. By about 2.30, we'd moved to a little meadow in the foothills and a few butterflies began flying. These included Red-underwing Skipper, Adonis Blue, Provençal Short-tailed Blue, Short-tailed Blue, Brown Argus, Provence Orange Tip, Small Heath, Oberthur's Grizzled Skipper, Southern Grizzled Skipper, Common Blue, and Red Admiral.

Stop 3. We ascended higher, reaching about 1,500 metres. Here the sun was shining and most welcome. Clouded Apollo, more Provence Orange Tips dashing past (seldom settling) Wood White, Glanville Fritillary, Small Blue, Green-underside Blue, Pearl-bordered Fritillary, Meadow Fritillary, Small Tortoiseshell, and Queen of Spain, plus a few De Prunner's Ringlets livened up the scene.



Provençal Short-tailed Blue © Peter



Short-tailed Blue © David M



Large Skipper © Peter



Oberthur's Grizzled Skipper © David C

The habitat visited today consisted of meadows and mixed woodland. The verges were particularly rich in plants and we saw many species belonging to the Fabaceae family, such as *Vicia sepia* and *Vicia tenuifolia*. Other plants present were *Stellaria holostea* (Greater stitchwort), *Chelidonium majus*, and *Cruciata laevis*. In the drier stone walls *Umbilicus rupestris* was particularly common, as well as the attractive *Saponaria ocymoides* and *Saxifraga granulata*. Two species of *Euphorbia* were seen, the tall *E. characias* with the attractive dark glands and the much commoner smaller species occupying the verges, *E. cyparissias*.

Day 2, Friday 27th May, west towards Andorra.

The day started with low cloud in Vernet-Les-Bains and with blue sky peeping through, we decided to visit sites near Llo and Llivia. After a continental breakfast, we set out at 9am. The forecast had promised sun and sure enough, as we gained altitude, the skies cleared dramatically.

Stop 1 We arrived at our first location around 10.30am and the temperature had reached 20 Celsius. The first butterflies were Marsh Fritillary and Berger's Clouded Yellow, followed by Meadow Fritillary. Richard took the time to explain the diagnostic feature of the latter species, a dark oblique mark near the base of the upperside fore-wing. There were several flying, so most of us had a good view. The butterfly was very different looking from the also-present Marsh Fritillary which has obvious two-tone colouration and the plentiful Glanville Fritillary with its post discal black spots.

David identified the selection of skippers on show: Safflower, Mallow, Red-underwing, Dingy, Grizzled and Large Grizzled were present. We also found hybrid Adonis x Chalkhill Blue (*P. polonus*).



Marsh Fritillary © Helen



Meadow Fritillary © P Gravett

Slightly challenging were the De Prunner's Ringlets. They never really stopped still long enough for a good look but photos were taken and pronouncements made. The lovely custard-yellow Berger's Clouded Yellow became more frequent too, whizzing past but never settling. Peter was pleased to see so many Adonis Blues and managed to photograph a pair 'in cop'. Red-underwing Skipper, Orange Tips, Common Blues, and several Green Hairstreaks were also seen. A Golden Eagle flew over, making for a nice avian distraction and finally, Helen, who had wandered off in search of Marsh Fritillaries, found our first Violet Copper. Eventually David found more and our little troop were able to get close and appreciate this rather rare and extremely beautiful creature. We spent a good time studying the species before leaving, deciding that *helle* had some need of privacy...

Yiannis was able to point out many wonderful flowers, starting with the wonderfully fragrant *Narcissus poeticus*, *Sanguisorba minor*, *Alchemilla*, and a few *Orchis ustulata* (Burnt orchid). *Caltha palustris* (Kingcup) was growing in profusion by the stream, with deep golden yellow flowers interspersed here and there with River Avens. Cowslips were still in flower up the slope.



Red-underwing Skipper © John & Carol



Violet Copper © Geoff

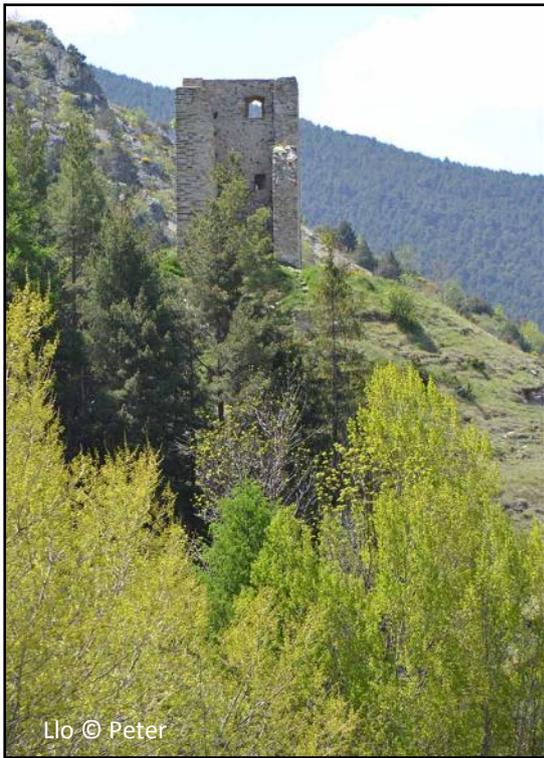
Stop 2. At Llo, with its lovely hillside and folly, we walked to the small stream and had our picnics of lentils, cake, cheese and puréed apple. It was 12:30pm and the thermometer was reading 28 Celsius, so we made the most of the cool air while we ate.

Our first butterfly was Provence Short-tailed Blue, followed by Green Hairstreak, Clouded Apollo and beautiful Provence Orange Tips. These were mainly males but with an occasional female. Duke of Burgundy was present, unsurprising



Greenwingers © John & Carol

because of the amount of their foodplant, Cowslip. We spied a Spanish Swallowtail and we also homed in on a settled Camberwell Beauty, which occasionally basked to reveal the wonderful maroon uppersides and beautiful cream 'petticoat'. Here Peter photographed Red-underwing Skippers and on cardamines, Green-veined White was nectaring with Small Tortoiseshell. Richard also pointed out the ova of Small Blue on Kidney Vetch, the tiny little pale green eggs laid on the flowers. Glanville Fritillary and Large White were also seen.



Stop 3. We moved higher up the track towards the grassy slopes, stopping for a wonderful freshly emerged male Turquoise Blue. The specimen had clear orange lunules and bold markings throughout the undersides. Beyond, more Duke of Burgundy and Green-veined Whites, as well as a Hummingbird Hawk-moth were seen. Richard also showed us female Chapman's Blue, again pointing out the diagnostic features. There were more Green Hairstreaks, Common and Adonis Blues here. We also had a flyby of 2 Griffon Vultures.

Before leaving, we stopped at some Sainfoin for Osiris Blue. A small number of males were present. Flower-wise, we saw *Vicia pannonica*, *Gentiana verna*, *Onobrychis* sp. in the verge, and *Linum*

narbonense, the latter a beautiful deep blue flower.



Stop 4. Our final stop was at Caranças Gorge. We'd been in the sun most of the day so it was time for a bit of shade and a well earned drink or ice cream. The river and gorge cut deep into the mountains and was blessed with the obligatory nesting Grey Wagtails. Butterflies present included Camberwell Beauties (near the river), Chequered Blue, Wall, Speckled Wood and Glanville Fritillary.



With the change in geology, several plants more suited to a chalky substrate were noted. These included *Biscutella cichoriifolia*, *Ranunculus tuberosus*, *Rhinanthus pumilus*, *Vicia cracca*, *Vicia onobrychioides*, *Silene ciliata* and *Veronica austriaca*. Among the other birds seen today were Crested Tit, Firecrest, House Martin, Black Redstart, Griffon Melodious Warbler, Swift and Crag Martin.

We arrived home at 6pm after collecting a few provisions at the Intermarché in Vernet.

Day 3, Saturday 28th May, Sournia and Sahorre.

The weather forecast on meteo.fr suggested a day of hazy sunshine. Marilyn and Cynthia had already photographed Serin in the hotel garden first thing, so we set off in a north-easterly direction after breakfast in high spirits, looking forward to a good day in the field. Our outlook changed quickly though, as increasing cloud suggested that the forecasters had got their prediction wrong.

Stop 1. We persevered and made an impromptu roadside stop at 980 metres. Flowers included *Silene italica*, and *Helichrysum stoechas*. Marilyn saw Hoopoe, to go with Woodlark, Nightingale and Subalpine Warbler. Southern White Admiral ova were found on Honeysuckle.

Stop 2. We moved on and ascended a small hillside, noting Chequered, Blue, Chapman's Blue and Cream Spot Tigers on the way. The cloud stayed with us so we scoured the hillside for butterflies finding Wall, Painted Lady and Western Marbled White. On the way down, Helen found Dusky Heath, a remarkable find given the conditions.



Some beautiful orchids were growing here, including *Anacamptis pyramidalis* (Pyramidal Orchid), *Ophrys scolopax* (Woodcock Orchid), and one specimen each of *Orchis anthropophorum* (Man Orchid), *Ophrys lutea* (Yellow Bee Orchid) and *Ophrys insectifera* (Fly Orchid).

Clouded Apollo © John & Carol



Other plants included *Linum narbonense*, *Crupina crupinastrum*, *Anthericum liliago* (St. Bernard's Lily), *Aristolochia rotunda* and *Muscari neglectum*. *Aphyllanthes monspeliensis* was growing everywhere, but the flowers were closed because of the cloudy weather.

By about 1.30, we decided to call it a day at this spot and moved back down the slopes to our vehicles for lunch. We then took the decision to move to a new location in the hope of sunshine.

Apollo © Peter

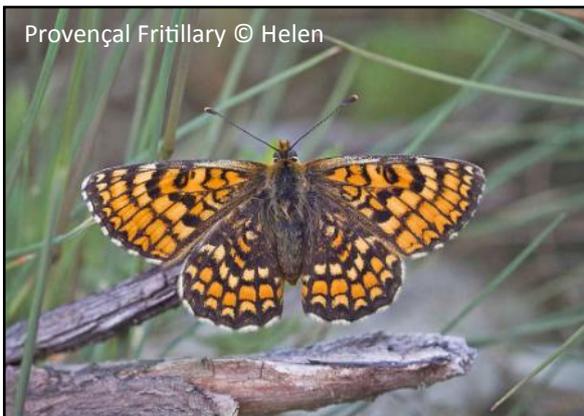


Stop 3. Thus we drove to Py and at around 1,500m rose above the cloud and found sunshine all around. Looking across the valley, the massif was bathed in golden light too and all around us, butterflies were flying merrily. We soon found Spotted Fritillary, with the lovely tangerine coloured males, Meadow Fritillary, Adonis Blue, Small Blue, Chapman's Blue, Red-underwing Skipper, Clouded Apollo, Orange Tip, Provence Orange Tip, Provençal Fritillary, De Prunner's Ringlet and finally Apollo. It was good to be in the sunshine once again and better still to be amongst the butterflies and flowers!

Day 4, Sunday 29th May, Col de Jou, Torre de Goa and Tautavel.

Stop 1. We arrived at the parking spot of the Col de Jou at 9.30 with only 18 Celsius showing on the thermometer. However, the sun was beginning to break through and as we walked the track up towards the tower, our first butterflies soon showed. They included very small male Queen of Spain Fritillaries, Small White, Spanish Swallowtail, Weaver's Fritillary, Knapweed Fritillary, Wall, Adonis Blue and a beautifully marked Provençal Fritillary. The latter posed superbly for photos and it was easy to see its diagnostic orange palpi.

Provençal Fritillary © Helen



Spanish Swallowtail © David C

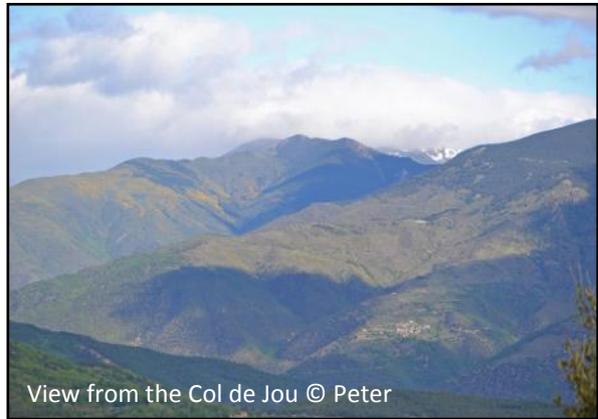


Flowers on the track included *Lavandula stoechas*, *Saponaria ocymoides*, *Veronica arvensis*, *Linaria micrantha*, *Echium plantagineum*, *Geranium columbinum*, *Viola tricolor*, *Centaurea pectinata* and *Lathyrus pratense*. Marilyn and Cynthia spotted Rock Bunting on the way up, and Raven was heard

calling. The views at the tower were impressive. Butterflies on the way back down included De Prunner's Ringlet, Small Tortoiseshell, Southern Grizzled Skipper and Red-underwing Skipper and Chequered Blue and Duke of Burgundy in a glade. Peter ever enthusiastic for any yellows, found Berger's Clouded Yellow and Clouded Apollo along a woodland track.



Walking the track © David C



View from the Col de Jou © Peter



Berger's Clouded Yellow © Peter



Chequered Blue © Geoff



Weaver's Fritillary © Helen



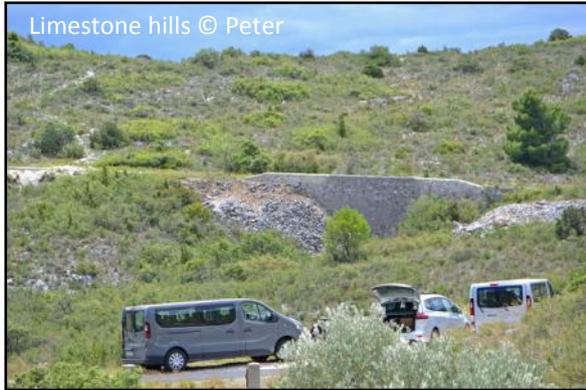
Knapweed Fritillary © D Moore

Stop 2. After lunch, we drove to a limestone hillside near Tautavel and the Med, where Spanish Gatekeeper was abundant. John found Blue-spot Hairstreak, and a small forward party found Ilex Hairstreak. These were new additions to our holiday butterfly list. As was Provence Chalkhill Blue, another species we'd targeted today. We also saw Western Marbled White, a species we'd already noted on the trip but which few of us had had a good look at, Bath White and Lulworth Skipper. White Collared Burnet moth was also seen.

Flowers here included *Urospermum dalechampii*, *Psoralea bituminosa*, *Dipcadi serotinus*, *Phlomis*

lychnitis, Cneorum tricocon, Lonicera etrusca, and Galactites tomentosa. The dry limestone garrigue - type habitat certainly had a very different feel to it than that of the mountains.

In the evening, we dined out at L'Echougette restaurant in Villefranche de Conflent, the historic town below Vernet-les-Bains. Dinner was excellent, as was the convivial atmosphere.



Limestone hills © Peter



Limestone hills © Peter



White-collared Burnet © Helen



Spanish Gatekeeper © David C



Lulworth Skipper © Peter



Provence Chalkhill Blue © Peter

Day 5, Monday 30th May, towards Col de Jau.

With rain forecast for the afternoon, we set out slightly earlier than normal, to make the best of our planned itinerary. Our aim was to get into the Aude department, near Rebenty.

Stop 1. After an hour's travelling north, we made a roadside stop by some interesting verges. These produced Chimney Sweeper moth, Common Blue and some lovely orchids. By the time we reached

the Col de Jau, grey clouds were gathering overhead and the rain wasn't far behind, so we turned back to a couple of meadows at a lower elevation where there was sunshine.

Stop 2. Here, Large Grizzled Skipper and Amanda's Blue were the probable highlights but other butterflies included Weaver's, Meadow, Pearl-bordered and Glanville Fritillaries, Small Heath, Green-veined White, Clouded Yellow, Mazarine Blue, Brown Argus, Sooty and Small Coppers and Duke of Burgundy. Silver-washed and Heath Fritillary larvae added interest, as did Forester moth, Small Elephant Hawkmoth, Burnet moth larvae and Owlly Sulphur (*Libelloides coccajus*).



Large Grizzled Skipper © John & Carol



Mazarine Blue © Peter

The area held good specimens of mostly subalpine plants, including *Trifolium pratense* (Red Clover), *Orchis morio* (Green-winged Orchid), *Orchis olbiensis* (Early Purple Orchid sp.), *Dactylorhiza sambucina* (Elderflower Orchid), *Polygonatum multiflorum* (Solomon's Seal), *Orchis ustulata* (Burnt tip Orchid), *Lathraea clandestina* (Purple Toothwort), Yellow Rattle, and White Asphodel.



Burnt tip Orchid © Peter



Amanda's Blue on vetch © Peter



In the meadow © Peter



Purple Toothwort © Helen

Stop 3. After lunch came showers, so we moved further down the mountain for sun and made a roadside stop in the hope of finding a few new species. Helen, Marilyn and Cynthia found Adonis Blue in a Crab Spider's web, and in a small neglected vineyard, the sunshine tempted Large Skipper, Small White, Red Admiral, Glanville Fritillary and a Broad-bordered Bee Hawk-moth. Peter found *Trichodes alvearius*, a beautiful red and black beetle of the Cleridae. We also saw and photographed Large *Psammodes* lizard.

Cytinus hypocistis, the hemi parasite of Rock rose was the most notable plant here, along with *Trifolium arvense*, *Trifolium cherleri*, *Silene alba*, *Silene vulgaris*, *Osyris alba* and *Malva sylvestris* and a species of Broomrape. On the way back to the hotel, we stopped off in Villefranche de Conflent to make the most of the opportunity to visit the Medieval town.

Day 6, Tuesday 31st May, Fort Liberia and Sahorre.

Stop 1. After breakfast, we set out towards Fort Liberia. Unfortunately, the rain of the previous afternoon appeared to have had an ill effect, with only Spanish Gatekeeper, Adonis Blue, and Large White seen for all our efforts. A few Wall Lizards were noticed on the steep banks and rocks.

Flowers seen included *Psoralea bituminosum*, *Helichrysum stoechas*, *Lonicera etrusca*, *Linum narbonense*, *Aphyllanthes monspeliensis*, *Coronilla scorpioides*, and *Centaurea aspera*.

Birds included Snake Eagle, Common Buzzard, Subalpine Warbler, Serin, and Crag Martins, all seen as we ascended to the fort. Near the parking area at the bottom on the way down, Great Spotted Woodpecker and mud-gathering House Martins were noted. With very little butterfly interest at the fort, and with sunshine still available, we decided to head into the mountains and maximise the good weather there.

Stop 2. At our first parking spot near Sahorre we were able to see Pearly Heath, Wall, Speckled Wood, Tufted Marbled Skipper, Sooty Copper, and Glanville Fritillary.

Stop 3. With the weather clear, we moved up to an area of higher meadows. Although it was still damp underfoot, we were able to find butterflies, many of them resting on grass stems and flowers. A beautiful Spotted Fritillary female of the



Meridionalis form, with smoky grey upperside forewings was found by Richard. Provence Short-tailed Blue, Wood White, Large White, Short -tailed Blue, Mazarine Blue and Clouded Apollo were soon added. Orange tips drifted up and down the roadside, along with the occasional Small White. In the meadow, A pristine Black-veined White was photographed by Peter, once it had eventually shaken off the attentions of a Clouded Apollo.



Spotted Fritillary (f) © Richard



Black-veined White © Peter



Provence Orange Tip (f) © Richard



Provence Orange Tip (m) © Helen

Stop 4. After lunch, we moved up higher to about 1,500m near the village of Py. The sun was shining and butterflies were flying and very soon, a beautiful Knapweed Fritillary specimen was seen by Brian. Clouded Apollos were found right by the spot where we'd parked, more often than not feeding off Tufted Vetch flowers. Richard pointed out the sphragus (a waxy like plug) of a female which had been mated and explained how the feature is common to all Parnassius species. Also seen were Meadow Fritillary, Wood White, Adonis Blue, Sooty Copper, Small Copper, and for Helen, Green-underside Blue. There were a number of Provence Orange Tips also, and pretty soon, Parnassius Apollo. As we wandered down the road, we eventually found 4 more of these fabulous creatures. One or two settled for photos either in the grass, or on the plentiful *Saponaria ocymoides*. Oberthur's Grizzled Skipper, Glanville Fritillary, Small Heath and Common Blue were also seen.

Flowers included *Rhinanthus minor*, *Geranium lucidum*, *G. sanguineum*, and *G. sylvaticum*.

The clouds eventually caught up with us, covering the blue. Even Canigo, which had been dusted with snow overnight and had earlier looked resplendent against the blue sky, disappeared from view. It was time to head back to the hotel in preparation for dinner at a small family restaurant called Le Gren du Sel in Casteil.

Day 7, Wednesday 1st June, second visit to Sournia.

After breakfast, we set out towards Sournia to return to the site we'd visited earlier in the week. Conditions were warm, and blue skies appeared to the northwest.

Stop 1. We walked the track and flower rich slopes and within an hour the sun began to shine. Our first butterflies were Osiris Blue, Common Blue and an emerging Marsh Fritillary, of the form *Beckeri*. This stunning insect had a much brighter appearance than the nominate form. As did a female Osiris Blue which David C photographed. Clouded Yellows buzzed past, never really stopping but female Chapman's and Provence Short-tailed Blues, Tufted Marbled Skipper, Cleopatra and Large Wall Brown were more obliging. Here, Western Marbled White, Spotted Fritillary, Green-underside Blue, Small Blue, Black-veined White, Small Heath and Queen of Spain were also present. Unfortunately, Spanish Fritillary did not show and A visit up the hill in an effort to find it proved fruitless. *Zygaena fausta* (Chalk Burnet) and *Zygaena rhadamanthus* (Algarve Burnet) were also present.



Marsh Fritillary *beckeri* © Richard



Marsh Fritillary *beckeri* © Helen



Osiris Blue -exceptionally blue- (f) © David C

Beautiful flowers abounded, with *Aphyllanthes monspeliensis*, *Dorycnium pentaphyllum*, *Linum narbonense*, *Anthyllis vulneraria*, *Tragopogon* sp., *Leuzea conifera*, *Dianthus hispanicus*, *Hyoscyamus niger*, *Aceras anthropophorum*, *Anacamptis pyramidalis*, and *Bupleurum fruticosum*.

Stop 2. At 1pm we moved back to the vehicles for lunch and then drove to a local quarry in the hope of more butterflies. Unfortunately the clouds gathered and fewer butterflies were on the wing now. Chequered Blue, Berger's Clouded Yellow, Large Wall and Adonis Blue were seen as well as our first and only Meadow Brown of the trip. Plants included *Campanula rapunculus*, *Centaurea aspera*, *Centaurea nigra*, *Helianthemum apenninum* and a wonderful *Himantoglossum hircinum* (Lizard Orchid).



Cleopatra © John & Carol



Large Wall Brown © D Moore



Osiris Blues © John & Carol



Chalk Burnet © Peter



Adonis Blue © Peter



Spotted Fritillary larva © Peter

Day 8, Thursday 2nd June, return to UK.

After saying goodbye to our hosts, we set off for Perpignan at around 7am, arriving at the airport about an hour later for the flight back to the UK.

Footnote

The total number of butterfly species seen was 76, which is a very good spring tally. Key species such as Violet Copper, Apollo and Spanish Swallowtail were all found but Spanish Fritillary was sadly absent. An added bonus was the discovery of Adonis x Chalkhill Blue hybrid. A fantastic array of over 170 plants species was also seen including a good number of orchids.

Acknowledgements. Greenwings would like to thank all their guests on this trip for their good company and humour throughout. Special thanks must also go to Richard, David and Yiannis for their expert guiding.

Photo gallery and species list overleaf



Knapweed Fritillary © Richard



Mazarine Blue © Helen



Chapman's Blue female © Richard



Chapman's Blue © Richard



De Prunner's Ringlet © D Moore



Glanville Fritillary © Peter



Safflower Skipper © Peter



Clouded Yellow © Peter



Provencal Short-tailed Blue © David M



Pearl-bordered Fritillary © Peter



Heath Fritillary larva © Peter



Adonis Blue © Peter



Sooty Copper © David C



Provençal Fritillary © David C



Meadow Fritillary © John & Carol





Algarve Burnet © Peter



Ruby Tiger © Peter



Provence Short-tailed Blue © David C



Western Marbled White © Peter



Bath White © Peter



Amanda's Blue © David M



Heath Fritillary © Peter



Dingy Skipper Peter



Violet Copper © Peter



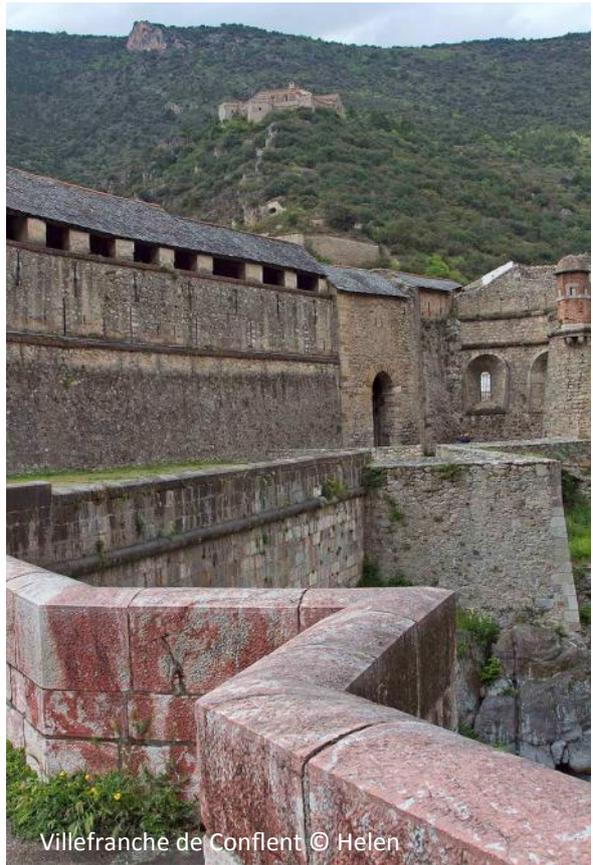
Common Blue © Peter



Small Copper © Peter



Landscape © David M



Villefranche de Conflent © Helen



In the meadow © Peter



Flowery bank © Peter



Vernet-les-Bains © Helen



Dinner © Marilyn



Trichodes alvearius © Peter



Large Psammodoros © Helen



Libelloides coccajus © Peter



Wall Lizard sp. © Helen



Serin © Marilyn



Rock Bunting © Marilyn



Small Elephant Hawkmoth © Marilyn



Mantid © Marilyn

Queen of Spain © Peter



Spotted Fritillary © Peter



Weaver's Fritillary © Geoff



False Ilex Hairstreak © David M



Wood White © Marilyn





Western Marbled White © Geoff



Violet Copper © David C



Pearly Heath © John & Carol



Marsh Fritillary © John & Carol



Chalkhill Blue x Adonis Blue hybrid © David M



Apollo © Peter



Dianthus hispanicus © Yiannis



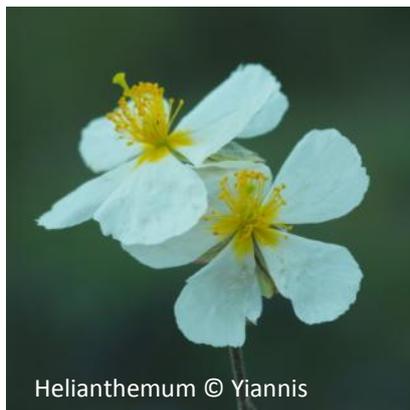
Dipcadi serotinum © Yiannis



Orchis sambucina © Helen



Orchis ustulata © Helen



Helianthemum © Yiannis



Hyoscamus © Yiannis



Tragopogon © Yiannis



Broomrape © Helen



Man Orchid © Helen



Orchis olbiensis © Helen



Orchis sambucina © Helen



Caltha palustris © Peter

Butterflies and Botany of the Eastern French Pyrenees, 26th May-02nd June 2016 species checklist			Thu 26 May	Fri 27 May	Sat 28 May	Sun 29 May	Mon 30 May	Tue 31 May	Wed 01 June
Butterflies			day 1	day 2	day 3	day 4	day 5	day 6	day 7
Family <i>Hesperiidae</i>									
1	Dingy Skipper	<i>Erynnis tages</i>		✓	✓		✓	✓	
2	Mallow Skipper	<i>Carcharodus alceae</i>			✓				
3	Tufted Marbled Skipper	<i>Carcharodus flocciferus</i>	✓	✓				✓	✓
4	Red-underwing Skipper	<i>Spialia sertorius</i>	✓	✓	✓	✓	✓		✓
5	Southern Grizzled Skipper	<i>Pyrgus malvoides</i>	✓	✓	✓	✓	✓	✓	
6	Oberthur's Grizzled Skipper	<i>Pyrgus armoricanus</i>	✓				✓	✓	
7	Safflower Kipper	<i>Pyrgus carthami</i>		✓					
8	Large Grizzled Skipper	<i>Pyrgus alveus</i>		✓			✓		
9	Large Skipper	<i>Ochlodes sylvanus</i>	✓				✓	✓	
10	Lulworth Skipper	<i>Thymelicus acteon</i>				✓			
Family <i>Papilionidae</i>									
11	Apollo	<i>Parnassius apollo</i>			✓			✓	
12	Clouded Apollo	<i>Parnassius mnemosyne</i>	✓	✓	✓	✓		✓	
13	Spanish Swallowtail	<i>Iphiclides feisthamelii</i>		✓	✓	✓			✓
14	Swallowtail	<i>Papilio machaon</i>		✓					
Family <i>Pieridae</i>									
15	Wood White	<i>Leptidea sinapis</i>	✓	✓	✓	✓	✓	✓	✓
16	Black-veined White	<i>Aporia crataegi</i>		✓				✓	✓
17	Large White	<i>Pieris brassicae</i>	✓	✓	✓	✓		✓	✓
18	Small White	<i>Pieris rapae</i>		✓	✓	✓	✓	✓	✓
19	Green-veined White	<i>Pieris napi</i>		✓	✓		✓		✓
20	Bath White	<i>Pontia daplidice</i>				✓			
21	Orange Tip	<i>Anthocharis cardamines</i>	✓	✓	✓	✓	✓	✓	✓
22	Provence Orange Tip	<i>Anthocharis euphenoides</i>	✓	✓	✓			✓	
23	Berger's Clouded Yellow	<i>Colias alfacariensis</i>		✓		✓			✓
24	Clouded Yellow	<i>Colias crocea</i>	✓	✓	✓	✓		✓	✓
25	Cleopatra	<i>Gonepteryx cleopatra</i>							✓
26	Brimstone	<i>Gonepteryx rhamni</i>		✓					
Family <i>Lycaenidae</i>									
27	False Ilex Hairstreak	<i>Satyrium esculi</i>				✓			
28	Green Hairstreak	<i>Callophrys rubi</i>		✓			✓	✓	
29	Blue Spot Hairstreak	<i>Satyrium spini</i>				✓			
30	Sooty Copper	<i>Lycaena tityrus</i>	✓	✓	✓		✓	✓	
31	Small Copper	<i>Lycaena phlaeas</i>	✓	✓	✓		✓		✓
32	Violet Copper	<i>Lycaena helle</i>		✓					
33	Short-tailed Blue	<i>Cupido argiades</i>	✓					✓	
34	Provençal Short-tailed Blue	<i>Cupido alcetas</i>	✓	✓				✓	✓
35	Small Blue	<i>Cupido minimus</i>	✓	✓	✓			✓	✓
36	Osiris Blue	<i>Cupido osiris</i>		✓	✓				✓
37	Holly Blue	<i>Celastrina argiolus</i>		✓	✓			✓	

	Butterflies		day 1	day 2	day 3	day 4	day 5	day 6	day 7
38	Green-underside Blue	<i>Glauopsyche alexis</i>	✓				✓	✓	✓
39	Baton Blue	<i>Pseudophilotes baton</i>			✓				✓
40	Chequered Blue	<i>Scolitantides orion</i>		✓	✓	✓			✓
41	Mazarine Blue	<i>Cyaniris semiargus</i>	✓		✓		✓	✓	✓
42	Turquoise Blue	<i>Polyommatus dorylas</i>		✓					✓
43	Amanda's Blue	<i>Polyommatus amandus</i>					✓		
44	Chapman's Blue	<i>Polyommatus thersites</i>		✓	✓				✓
45	Common Blue	<i>Polyommatus icarus</i>	✓	✓	✓	✓	✓	✓	✓
46	Adonis Blue	<i>Lysandra bellargus</i>		✓	✓	✓	✓	✓	✓
47	Provence Chalk Hill Blue	<i>Lysandra hispana</i>				✓			
48	Brown Argus	<i>Aricia agestis</i>	✓	✓	✓		✓	✓	
		Family <i>Nymphalidae</i>							
49	Southern White Admiral	<i>Limenitis reducta</i>			ova				
50	Camberwell Beauty	<i>Nymphalis antiopa</i>		✓	✓				
51	Small Tortoiseshell	<i>Aglais urticae</i>	✓	✓	✓	✓			
52	Peacock	<i>Inachis io</i>						✓	
53	Red Admiral	<i>Vanessa atalanta</i>	✓	✓	✓	✓	✓		
54	Painted Lady	<i>Vanessa cardui</i>	✓	✓	✓	✓	✓		✓
55	Glanville Fritillary	<i>Melitaea cinxia</i>	✓	✓	✓	✓	✓	✓	
56	Knapweed Fritillary	<i>Melitaea phoebe</i>				✓		✓	
57	Spotted Fritillary	<i>Melitaea didyma</i>			✓	✓		✓	✓
58	Heath Fritillary	<i>Melitaea athalia</i>		✓				✓	
59	Provençal Fritillary	<i>Melitaea deione</i>		✓	✓	✓			
60	Meadow Fritillary	<i>Melitaea parthenoides</i>	✓	✓	✓		✓	✓	
61	Marsh Fritillary	<i>Euphydryas aurinia</i>		✓		✓			✓
62	Queen of Spain Fritillary	<i>Issoria lathonia</i>		✓	✓				✓
63	Pearl-bordered Fritillary	<i>Boloria euphrosyne</i>	✓		✓		✓		
64	Weaver's Fritillary	<i>Boloria dia</i>	✓	✓		✓	✓		
65	Silver-washed Fritillary	<i>Argynnis paphia</i>					larva		
66	Speckled Wood	<i>Pararge aegeria</i>		✓	✓	✓	✓	✓	✓
67	Wall Brown	<i>Lasiommata megera</i>	✓	✓	✓	✓	✓	✓	✓
68	Large Wall Brown	<i>Lasiommata maera</i>							✓
69	Pearly Heath	<i>Coenonympha arcania</i>						✓	
70	Small Heath	<i>Coenonympha pamphilus</i>	✓	✓		✓	✓	✓	✓
71	Dusky Heath	<i>Coenonympha dorus</i>			✓				
72	Spanish Gatekeeper	<i>Pyronia bathseba</i>				✓		✓	✓
73	De Prunner's Ringlet	<i>Erebia triaria</i>		✓	✓	✓			
74	Meadow Brown	<i>Maniola jurtina</i>							
75	Western Marbled White	<i>Melanargia occitanica</i>			✓	✓			✓
		Family <i>Riodinidae</i>							
76	Duke of Burgundy	<i>Hamearis lucina</i>		✓		✓	✓		

Notable Plants		
PTERYDOPHYTES		Day
Aspleniaceae		
1	Asplenium trichomanes - Maidenhair Spleenwort	6
2	Ceterach officinarum - Rusty back Fern	7
Polypodiaceae		
3	Polypodium cambricum - Welsh Polypody	6
GYMNOSPERMS		
Pinaceae		
4	Pinus sylvestris - Scots Pine	1
Cupressaceae		
5	Juniperus communis	7
ANGIOSPERMS		
DICOTYLEDONS		
Aceraceae		
6	Acer monspessulanum - Montpellier Maple	4
Apiaceae		
7	Bupleurum fruticosum - Shrubby Hare's ear	2-7
8	Foeniculum vulgare - Fennel	6
Anacardiaceae		
9	Pistacia terebinthus - Terebinth	3
Aristolochiaceae		
10	Aristolochia rotunda - a birthwort	3
Asteraceae		
11	Carduus nutans- stems not winged, naked below the head	3
12	Centaurea aspera - Rough Star-thistle	6
13	Centaurea pectinata	4
14	Centaurea solstitialis - St. Barnaby's Thistle	4
15	Centaurea sp	7
16	Centaurea sp	7
17	Crupina crupinastrum - Southern Crupina	3
18	Galactites tomentosa - Purple Milk thistle	4
19	Lactuca perennis	3
20	Leuzea conifera	7
21	Pallenis spinosa - Spiny Starwort	6

22	Tragopogon crocifolius - Goatsbeard Salsify	3
23	Urospermum dalechampii - Smooth Golden Fleece4	4
	Boraginaceae	
24	Anchusa italica - Italian Bugloss	4
25	Echium vulgare -Viper's Bugloss	5
26	Echium plantagineum - Purple Viper's Bugloss	4
	Brassicaceae	
27	Biscutella cichoriifolia	2
28	Capsella bursa-pastoris - Shepherd's Purse	2
29	Cardamine hirsuta - Hairy Bittercress	
30	Cardamine pratensis - Lady's smock	2
31	Cardamine raphanifolia	2
	Campanulaceae	
32	Campanula rapunculus - Rampion Bellflower	7
	Caprifoliaceae	
33	Lonicera etrusca - Etruscan Honeysuckle	4
	Caryophyllaceae	
34	Dianthus carthusianorum - Carthusian Pink	5
35	Dianthus hispanicus	7
36	Herniaria glabra	2
37	Saponaria ocymoides - Rock Soapwort	2
38	Silene alba - White Campion	2
39	Silene ciliata	1
40	Silene vulgaris - Bladder Campion	5
41	Stellaria holostea, Greater Stitchwort	3-5
42	Paronychia argentea - Nailwort	4
	Cistaceae	
43	Cistus albidus	3
44	Cistus laurifolius - Laurel-leaved Rockrose	3
45	Cistus monspeliensis - Montpellier Cistus	4
46	Helianthemum apenninum	7
47	Helianthemum nummularium ssp. glabrum - Common Rockrose	6
	Convolvulaceae	
48	Convolvulus althaeoides	4
49	Convolvulus cantabrica	4

	Crassulaceae	
50	<i>Umbilicus rupestris</i> - Navelwort	1
	Cucurbitaceae	
51	<i>Bryonia cretica</i> - White Bryony	5
	Cytinaceae	
52	<i>Cytinus hypocistis</i>	5
	Euphorbiaceae	
53	<i>Euphorbia amygdaloides</i> - Wood Spurge	
54	<i>Euphorbia characias</i>	1
55	<i>Euphorbia cyparissias</i> - Cypress Spurge	1
56	<i>Euphorbia exigua</i> - Dwarf Spurge	3
57	<i>Euphorbia myrsinites</i>	3
58	<i>Euphorbia serrata</i>	3
	Fabaceae	
59	<i>Anthyllis vulneraria</i> ssp. <i>forondae</i> Kidney Vetch	3
60	<i>Coronilla scorpioides</i> - Annual Scorpion-vetch	6
61	<i>Coronilla vaginalis</i>	7
62	<i>Dorycnium pentaphyllum</i> - Prostrate Canary clover	7
63	<i>Hippocrepis comosa</i> - Horseshoe Vetch	4
64	<i>Lathyrus latifolius</i> - Everlasting Pea	5
65	<i>Lathyrus pratensis</i> - Meadow Pea	2
66	<i>Lotus corniculatus</i> - Birdsfoot Trefoil	3
67	<i>Medicago arabica</i> - Spotted Medick	4
68	<i>Medicago minima</i> - Bur Medick	3
69	<i>Onobrychis supina</i>	6
70	<i>Onobrychis viciifolia</i> - Common Sainfoin	5
71	<i>Psoralea bituminosa</i> - Pitch Trefoil	6
72	<i>Spartium junceum</i> - Spanish Broom	4
73	<i>Trifolium arvense</i> - Hare's-foot Clover	5
74	<i>Trifolium aureum</i> - Golden Clover	6
75	<i>Trifolium campestre</i> - Hop Trefoil	5
76	<i>Trifolium cherleri</i>	5
77	<i>Trifolium incarnatum</i> - Crimson Clover	5
78	<i>Trifolium montanum</i> - Mountain Clover	5
79	<i>Trifolium pratense</i> - Red Clover	5

80	Vicia cracca - Tufted Vetch	2
81	Vicia onobrychioides	2
82	Vicia pannonica	2
83	Vicia sativa - Common Vetch	1
84	Vicia sepium - Bush Vetch	1
85	Vicia tenuifolia - Fine-leaved Vetch	1
86	Vicia villosa - Fodder Vetch	3
	Fagaceae	
87	Castanea sativa - Sweet Chestnut	2
88	Quercus coccifera - Kermes Oak	7
89	Quercus pubescens - Downy Oak	4
	Gentianaceae	
90	Gentiana verna - Spring Gentian	2
	Geraniaceae	
91	Erodium cicutarium - Stork's Bill	3
92	Erodium malacoides - Mediterranean Storksbill	
93	Geranium columbinum - Longstalk Cranesbill	4
94	Geranium lucidum - Shining Cranesbill	6
95	Geranium pyrenaicum - Mountain Cranesbill	1
96	Geranium robertianum - Herb Robert	6
97	Geranium rotundifolium - Round-leaved Cranesbill	1
98	Geranium sanguineum - Bloody Cranesbill	6
99	Geranium sylvaticum - Wood Cranesbill	6
	Hypericaceae	
100	Hypericum perforatum - Perforate St John's-wort	4
	Lamiaceae	
101	Ajuga pyramidalis - Pyramidal Bugle	5
102	Lamium album - White Dead-nettle	2
103	Lamium garganicum	6
104	Lavandula angustifolia - Lavender	7
105	Lavandula stoechas - French Lavender	3
106	Phlomis lychnitis	4
107	Rosmarinus officinalis - Rosemary	4
108	Teucrium aureum	3
109	Thymus pulegioides - Large Wild-thyme	4

110	Thymus serpyllum - Wild Thyme	4
111	Thymus vulgaris - Thyme	2
	Linaceae	
112	Linum bienne - Pale Flax	3
113	Linum narbonense	2
	Malvaceae	
114	Malva neglecta - Dwarf Mallow	2
115	Malva sylvestris - Common Mallow	
	Orobanchaceae	
116	Lathraea clandestina, Purple toothwort	5
117	Orobanche caryophyllacea	7
	Oleaceae	
118	Jasminum fruticans - Wild Jasmine	6
	Papaveraceae	
119	Chelidonium majus - Greater Celandine	1
120	Papaver dubium - Long-headed Poppy	3
121	Papaver rhoeas - Corn Poppy	3
122	Papaver somniferum - Opium Poppy	6
	Polygalaceae	
123	Polygala sp.	2
	Primulaceae	
124	Anagallis arvensis - Scarlet Pimpernel	3
125	Primula veris - Cowslip	2
	Ranunculaceae	
126	Aquilegia vulgaris - Columbine	3
127	Caltha palustris	2
128	Nigella damascena - Love-In-A-Mist	6
129	Ranunculus tuberosus	2
	Resedaceae	
130	Reseda lutea - Wild Mignonette	6
131	Reseda phyteuma - Corn Mignonette	3
	Rhamnaceae	
132	Rhamnus alaternus - Mediterranean Buckthorn	3
	Rosaceae	
133	Aphanes arvensis	4

134	Geum rivale - Avens	3
135	Geum urbanum - Herb Benet	6
136	Potentilla argentea - Silvery Cinquefoil	6
137	Sanguisorba minor - Salad Burnet	2
	Rubiaceae	
138	Cruciata laevipes	1
139	Sherardia arvensis - Field Madder	4
	Rutaceae	
140	Cneorum tricoccon - Spurge Olive	4
141	Ruta angustifolius	5
	Santalaceae	
142	Osyris alba	3
	Saxifragaceae	
143	Saxifraga granulata, Meadow saxifrage	2
144	Saxifraga paniculata	3
	Scrophulariaceae	
145	Antirrhinum siculum - Sicilian Snapdragon	3
146	Linaria micrantha	4
147	Misopates orontium - Weasel's Snout	4
148	Rhinanthus	6
149	Veronica arvensis - Wall Speedwell	4
150	Veronica austriaca -	4
	Solanaceae	
151	Hyoscyamus	7
	MONOCOTYLEDONS	
	Amaryllidaceae	
152	Narcissus poeticus - Poet's Narcissus	2
	Liliaceae	
153	Anthericum liliago - St Bernard's Lily	3
154	Aphyllanthes monspeliensis - Blue Grass Lily	3
155	Asphodelus fistulosus - Hollow-stemmed Asphodel	4
156	Asphodelus albus - White Asphodel	5
157	Dipcadi serotinum - Dipcadi	4
158	Muscari comosum - Tassel Hyacinth	1
159	Muscari neglectum - Grape Hyacinth	3

160	Polygonatum multiflorum - Solomon's Seal	5
161	Ruscus aculeatus - Butcher's Broom	6
Orchidaceae		
162	Orchis anthropophorum - Man Orchid	3
163	Anacamptis pyramidalis - Pyramidal Orchid	3
164	Cephalanthera longifolia - Sword-leaved Helleborine	4
165	Dactylorhiza sambucina - Elderflower Orchid (Red and Yellow forms)	3
166	Himantoglossum hircinum - Lizard Orchid	7
167	Ophrys insectifera - Fly Orchid	3
168	Ophrys lutea - Yellow Bee Orchid	3
169	Ophrys scolopax - Woodcock Orchid	3
170	Orchis olbiensis-Southern Early Purple	5
171	Orchis ustulata - Burnt-tip Orchid	2
172	Platanthera chlorantha - Greater Butterfly-orchid	3

Burnets & notable moths			day 1	day 2	day 3	day 4	day 5	day 6	day 7
1	Auspicious Burnet	<i>Zygaena fausta</i>							✓
2	White-collared burnet	<i>Zygaena lavandulae</i>				✓			
3	Algarve Burnet	<i>Zygaena rhadamanthus</i>							✓
4	Forester	<i>Adscita sp</i>					✓		
5	Chimney Sweep	<i>Odezia atrata</i>					✓		
6	Mother Shipton	<i>Callistege mi</i>		✓					
7	Burnet Companion	<i>Euclidia glyphica</i>			✓				
8	Hummingbird Hawk-moth	<i>Macroglossum stellatarum</i>			✓				
9	Small Elephant Hawk	<i>Deilephila porcellus</i>					✓		✓
10	Broad Bordered Bee Hawk	<i>Hemaris fuciformis</i>					✓		
11	Cream Spot Tiger	<i>Arctia villica</i>			✓				
12	Ruby Tiger	<i>Phragmatobia fuliginosa</i>		✓					
13	Frosted Yellow	<i>Isturgia limbaria</i>			✓				

Other Notable Wildlife		
1	Owlfly	<i>Libelloides coccajus</i>
2	Owlfly	<i>Libelloides hispanica</i>
3	Emperor Dragonfly	<i>Anax imperator</i>
4	Norfolk Hawker	<i>Aeschna isoceles</i>
5	Mantis	<i>Empusa sp.</i>
6	Brown Banded Carder Bee	<i>Bombus humilis</i>
7	Beetle	<i>Trichodes alvearius</i>
8	Green Lizard	<i>Lacerta viridis</i>
9	Wall Lizard	<i>Podarcis muralis</i>
10	Large Psammodromus	<i>Psammodromus algirus</i>
11	Red Squirrel	<i>Sciurus vulgaris</i>
12	Roe Deer	<i>Capreolus capreolus</i>

	Birds seen or heard		1	2	3	4	5	6	7
1	Common Swift	<i>Apus apus</i>	✓					✓	
2	Crag Martin	<i>Ptyonoprogne rupestris</i>		✓				✓	
3	Barn Swallow	<i>hirundo rustica</i>	✓		✓			✓	✓
4	House Martin	<i>Delichon urbicum</i>		✓	✓				
6	Black Redstart	<i>Phoenicurus ochruros</i>	✓	✓	✓	✓	✓	✓	✓
7	Nightingale	<i>Luscinia megarhynchos</i>				✓		✓	✓
8	Subalpine Warbler	<i>Sylvia cantillans</i>				✓			✓
9	Melodious Warbler	<i>Hippolais polyglotta</i>		✓					
10	Bonelli's Warbler	<i>Phylloscopus bonelli</i>						✓	
11	Garden Warbler	<i>Sylvia borin</i>				✓			
12	Goldcrest	<i>Regulus regulus</i>		✓	✓				
13	Firecrest	<i>Regulus ignicapilla</i>			✓			✓	✓
14	Blackbird	<i>Turdus merula</i>			✓				
15	Crested Tit	<i>Lophophanes cristatus</i>		✓	✓	✓			
16	Blue Tit	<i>Cyanistes caeruleus</i>			✓			✓	
17	Great Tit	<i>Parus major</i>			✓				✓
18	Coal Tit	<i>Periparus ater</i>			✓			✓	
19	Woodlark	<i>Lullula arborea</i>			✓				
20	Cirl Bunting	<i>Emberiza cirlus</i>							✓
21	Rock Bunting	<i>Emberiza cia</i>			✓	✓			
22	Goldfinch	<i>Carduelis carduelis</i>		✓					
23	Linnet	<i>Carduelis cannabina</i>							✓
24	Serin	<i>Serinus serinus</i>	✓	✓	✓	✓			
25	Raven	<i>Corvus corax</i>						✓	
26	European Jay	<i>Garrulus glandarius</i>			✓			✓	✓
27	Magpie	<i>Pica pica</i>			✓	✓		✓	
28	Golden Oriole	<i>Oriolus oriolus</i>							✓
29	Gt. Spotted Woodpecker	<i>Dendrocopos major</i>						✓	
30	Green Woodpecker								
31	Common Cuckoo	<i>Cuculus canorus</i>		✓	✓				✓
32	Grey Wagtail	<i>Motacilla cinerea</i>		✓					
33	Common Buzzard	<i>Buteo buteo</i>				✓			
34	Short-toed Eagle	<i>Circaetus gallicus</i>						✓	✓
35	Golden Eagle	<i>Aquila chrysaetos</i>		✓					
36	Griffon Vulture	<i>Gyps fulvus</i>		✓					
37	Kestrel	<i>Falco tinnunculus</i>						✓	