



**Butterflies & Botany of the Eastern  
French Pyrenees**

23 - 30 May 2019



**Greenwings Wildlife Holidays**

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# Butterflies & Botany of the Eastern French Pyrenees 2019

## Holiday Report 23 May - 30 May

### Introduction

This 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 2784 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 dialect. 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 scree, all of which are home to a wealth of interesting butterflies and plants. The holiday was led by David Moore and Yiannis Christofides. The hotel used was the same one as in 2017 and 2018, in the town of Prades, although it is now part of the Best Western chain rather than privately run. The guests joining us were John & Isla, Greg & Valerie, Dave P, Dave W, Andrew, Trevor, Roy, Colin and Paul.

What follows is a daily diary for the week, followed by gallery and species lists.

**Day 1, Thursday 23rd May:** Arrival at Perpignan airport, transfer to hotel and visit to Py.

**Day 2, Friday 24th May:** Beyond Mosset, Col de Jau

**Day 3, Saturday 25th May:** Força Real and Sournia

**Day 4, Sunday 26th May:** Sournia and quarries

**Day 5, Monday 27th May:** Porté-Puymorens, Eyne, Llo & Caranças Gorge

**Day 6, Tuesday 28th May:** Tour de Goa, Conat

**Day 7, Wednesday 29th May:** Col de Jau, Aunat (Aude Department)

**Day 8, Thursday 30th May:** Return to UK.



## Day 1, Thursday 23<sup>rd</sup> May, arrival at Perpignan and visit to Py.

Our guests came through the gates at Perpignan Airport without any serious delays and so once everyone had got acquainted, we made the 50 minute drive to our hotel. After unloading our belongings and a quick chat about the week's programme, provisions were purchased from the supermarket across the road and we went out in search of butterflies. The weather was almost perfect, around 24°C with minimal cloud cover, and by 1pm the group had arrived at the first stop, a series of grassy meadows and roadside verges just prior to the village of Py.

Promisingly, the first butterfly seen opposite the vans was a Clouded Apollo, which was happily nectaring on a brassica. The guide then spotted a scruffy Nettle Tree Butterfly, perching on a leaf tip several feet up in a tree. This was the first time this species had been recorded on this tour. Soon after, two different Camberwell Beauties were observed flying at speed. Dave P managed to catch up with one at the river further along the track.



Clouded Apollo © David Moore



Provence Orange Tip © Dave Potter

Several delightful Provence Orange Tips were seen, along with the Orange Tips we're familiar with in the UK. Pleasingly, several came to rest and everyone was able to get some images. Safflower Skipper, Tufted Marbled Skipper and Large Grizzled Skipper were all recorded, whilst many Lycaenids were present, such as Sooty Copper, Green Underside Blue & Adonis Blue. Dave W also brought the group's attention to a couple of Mazarine Blues taking minerals from damp soil by

the roadside.

Provençal and Glanville were the commonest Fritillaries, with the former looking particularly fresh. As we ascended in altitude, a few Queen of Spain Fritillaries were noted, although the highlight was undoubtedly the sight of several Apollos floating around the steep rock faces which they so favour. In the gully at the bottom of the slope were numerous Adonis Blues, whilst a gleaming Spotted Fritillary was nectaring contentedly.



Glanville Fritillary © Dave Potter



One last stop at lower levels was productive in the sense that butterflies became partly becalmed due to the increasing cloud. This allowed close approaches to normally skittish species such as De Prunner's Ringlet and Provence Orange Tip.

The first night's count showed that 45 butterfly species had been recorded in a single afternoon, which was very encouraging.

The evening meal was a buffet affair, and most of the group retired to bed fairly early given how long a day they'd had, with the flight departing Stansted prior to 7am!

## Day 2, Friday 24th May, Beyond Mosset to Col de Jau

From a butterfly perspective, this was a blank day. Grey skies, light rain and high winds were on the menu all day, so it was decided to visit a site which is particularly good for flowers to allow the botanists to indulge themselves.



Sword-leaved Helleborine  
© Yiannis Christofides

Beyond the attractive town of Mosset is a series of grassy meadows, where many orchids grow, although the most notable sighting was an amphibian, found by Greg nonchalantly crossing the damp road surface. This was a striking looking creature, black with vivid yellow stripes – a Fire Salamander.

A brief stop was made at the top of the 1,700m col, although warm clothing was required as temperatures in this exposed spot were a mere 8c!!

Lunch was taken on the north side of the col, where Sword-Leaved Helleborines were growing.

Due to the poor weather persisting, the group returned to Prades rather earlier than is normal,

with hopes that the following day would see more benign conditions.

## Day 3, Saturday 25th May, Força Real and Sournia

There was more frustration this morning, as the grey skies refused to break up, meaning that the visit to Força Real, a 500m lookout post a mere 20 minute drive from Perpignan, was again bereft of butterfly activity, although the botanists in the group got to see some of the plant species more associated with the Mediterranean habitat, and everyone was able to enjoy the views from the hermitage at the summit.

The brightest area of sky seemed to be to the north west, so it was decided that a visit to the quarry at nearby Sournia might provide some action.

Upon arrival, things did improve, but they were still borderline and butterflies were hard to come by. In spite of that, a Southern Small White was seen and identified, whilst certain members of the group got to see Spanish Gatekeeper. A small number of Turquoise Blues were also seen, but the most welcome newcomer was Western Marbled White, probably the most striking of all the European *melanargia* genus.



Spanish Gatekeeper © Dave Wright



Western Marbled White © David Moore



Western Marbled White © Dave Wright

#### Day 4, Sunday 26th May, Sournia and the three quarries

After two frustrating days, the group were eager to depart early in pleasant sunshine although temperatures were still on the cool side. By just gone 10am, everyone was on the lower track of the south-facing hillside at Sournia, and although things were slow given the temperatures, butterflies were still active, and several notable orchids were seen too.



Spanish Festoon © Dave Wright

The week's first Spanish Festoon was recorded, and other desirables were plenty more Western Marbled Whites, Swallowtail, Berger's Clouded Yellow & Chequered Blue.

As time passed, a plume of cloud developed which seemingly covered the area directly beneath which the group were exploring, but nowhere else! The guide decided to move 1km west to the small quarry but this cloud refused to shift. Lunch was taken, and things started to look worse when a series of showers passed over, but

this seemed to clear the air; the sun returned and the group headed on to the main quarry.

A Southern White Admiral was spotted in the gully by the bridge, along with a couple of Holly Blues. Finally, the *beckeri* form of Marsh Fritillary showed itself, with its beautiful brick red appearance and its unusual tendency to behave like a Duke of Burgundy; perching on



leading leaf tips and intercepting other passing insects.

In the main quarry, Turquoise, Adonis, Chapman's and Chequered Blues were easy to find, whilst Dave P encountered the only Cardinal of the week.

In the greener area at the top of the quarry, Iberian Scarce Swallowtails were recorded, along with the week's first Berger's Clouded Yellows. In fact, this sheltered area was teeming with butterflies, as if they were all eager to take cover from the strong wind that followed the group around for much of the week.

Both Cleopatra and Bath White were seen in this area, whilst Large Wall and Speckled Wood were around too albeit in small numbers.



Beckeri form Marsh Fritillary © Dave Wright



Queen of Spain Fritillary © Dave Potter

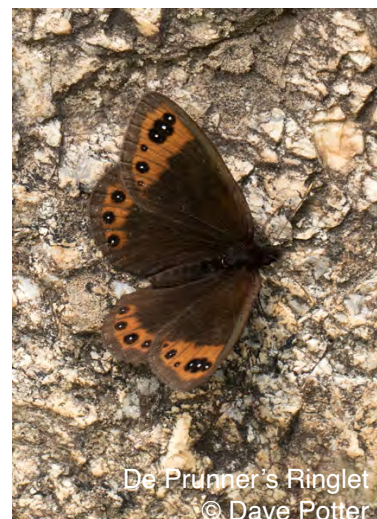
Sadly, the extremely rare Spanish Fritillary was not encountered, but the group had a further satisfying half hour or so at a smaller quarry further up the main road. A patch of thyme was attracting Queen of Spain Fritillaries and Western Marbled Whites, and it was nice to finally bask in warm, sunny conditions after a frustrating morning preceded by two cloudy, damp days.

#### **Day 5, Monday 27<sup>th</sup> May, Eyne, Porté-Puymorens, Llo and Caranças Gorge**

After a lacklustre couple of days, Monday finally came up trumps and provided redemption. It was a busy day, with a 9am start seeing the group arrive at a damp site in the village of Eyne at 10.15. At 1,600m, it was cool at around 13c, and the vegetation was reminiscent of that seen in the UK at the beginning of April, with dandelions abounding and the leaves on the trees yet to fully unfurl.

The guide swept the lower, boggy field, with Dave W on patrol too, in order to see if any Violet Coppers were about. Sadly, there were not, but the group did encounter the altitude form of Marsh Fritillary, along with Dingy Skippers, Green Hairstreaks, De Prunner's Ringlets and some beautiful wild narcissi.

Time then for the 40 minute drive towards the Andorran border, and thankfully two male Violet Coppers were seen in the boggy terrain in the wayleaf area beneath the power lines at Porté-Puymorens. Fresh Pearl Bordered Fritillaries were



De Prunner's Ringlet © Dave Potter

Elderflower Orchid  
© Dave Potter



recorded here too, and a walk into the field on the other side of the road saw the week's first Meadow Fritillary, along with some fine Elderflower Orchids.

Returning to the plateau around Llo, another Camberwell Beauty was seen, along with some striking gentians and a handful of Dukes of Burgundy, however butterfly numbers were rather disappointing as cloud had encroached once again, forcing the guide to suggest moving on to Caranças Gorge further down the valley.

The drive was spectacular, with excellent views of the surrounding mountains, not to mention the feats of human engineering along the railway track upon which the *petit train jaune* runs.

Guests were delighted to have a sit down and a drink at the gorge, and whilst there were no Camberwells this afternoon at this site, a few Provençal Short Tailed Blues were observed, meaning that in spite of indifferent weather a total of 67 species had been recorded by the end of Day 5.

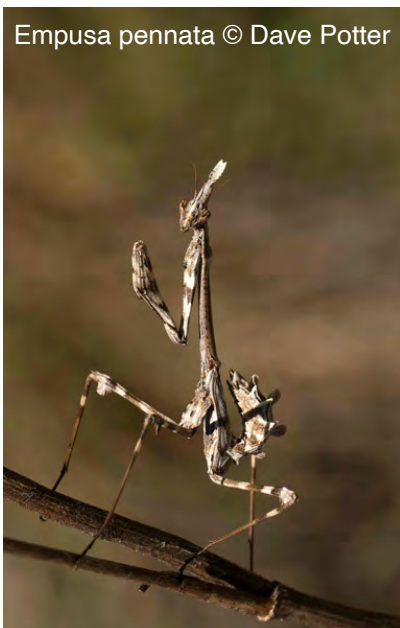
#### Day 6, Tuesday 28th May, Tour de Goa, Conat

Although the sun had returned this morning, the wind was near gale force outside the hotel, so it was something of a surprise when the group emerged into becalmed conditions at 1,100m on Tour de Goa, a mere half hour drive away.

Provençal Short-Tailed Blue  
© Dave Potter



Empusa pennata © Dave Potter



There are two tracks to choose between here, and a walk down the lower track provided a few Green Hairstreaks but not much else, as it was still largely in the morning shade, although a praying mantis was a welcome diversion from the butterflies.

So, most of the group walked up to the tower at the top of the uphill track, from where splendid panoramic views were enjoyed. Wall Browns were numerous, and the group finally realised where most of the Iberian Scarce Swallowtails were this week – hilltopping!! Quite a few were zooming about, and many settled nicely on the as yet unfurled cistus buds. A real highlight was the presence at the top of the hill of the week's only Purple-Shot Copper. This glorious insect was tricky to photograph, however, as he was seemingly intent on fighting the many Wall Browns that encroached into his territory.



In the afternoon, a trip to the roadside meadows near the village of Conat was undertaken. Sadly, clouds increased as time wore on, but the week's first Pearly Heath was spotted flying amongst the scrub, while the only False Heath Fritillary of the trip was seen nectaring at the roadside. Dave P came up trumps with a mating pair of Beckeri Marsh Fritillaries, whilst a couple of fresh Knapweed Fritillaries were also recorded.

### Day 7, Wednesday 29<sup>th</sup> May, Col de Jau, Aunat (Aude Department)



Amanda's Blue © David Moore

The return of the sunshine allowed the group to try and catch up with time lost earlier in the trip due to cloud and rain. An early start on the road past Mosset towards Col de Jau saw everybody arrive at a series of roadside meadows just after 10am, and it wasn't long before a new species for the week, Olive Skipper, was located.

Whilst temperatures were cool, the late May sunshine was sufficient to get butterflies active, and Colin spotted a blue butterfly feasting on tufted vetch by the roadside which turned out to be a beautiful, fresh Amanda's Blue, one of the most stunning Lycaenids of the region.

Soon after, another beautiful Lycaenid was seen – a male Purple Edged Copper, which posed well for images as is usual with this group of butterflies.

With the weather holding, the guide decided to risk the longish drive into the Aude department, and this turned out to be possibly the highlight of the week. Whilst taking lunch at the roadside, Silver Studded Blues were spotted, whilst Andrew had the pleasure of a persistent male Amanda's Blue on his hand, no doubt attracted by the fruit he was eating for lunch!

Not long afterwards, Greg spotted a Chequered



Purple-edged Copper © Dave Wright



Chequered Skipper © Dave Wright

Skipper taking minerals from the bank at the roadside. Two or three other individuals were seen nearby to the delight of the group.

Then, Roy informed the guide that he had seen a Map Butterfly, and after returning to the spot where it had first been observed, it wasn't long before it was seen again along with a couple of other individuals, one of which was a female in good



condition which was fluttering round the nettles inspecting the LHP with a view to ovipositing.

The guide then alerted those nearby to an *erebia* that flew by. It was clear in flight that this was not a De Prunner's Ringlet, which is usually the only member of this group on the wing in this area at the end of May. Thankfully, the insect settled briefly and was identified as the week's only Bright-Eyed Ringlet.

The journey into the Aude had definitely been worthwhile, but there was still time for the group to split into two, with the botanists returning to col de Jau and the butterflyers heading to Força Real for a second time. In spite of very windy conditions, Spanish Gatekeepers and Western Marbled Whites were seen on the lower slopes, whilst another first for the trip was notched up with a handful of Lulworth Skippers sighted. Usually, on the last day of this tour new species are hard to come by, but this final day had seen eight added to the tally, which finished up a respectable 81.

#### **Footnote**

The total number of butterfly species seen was ten better than in 2018, although it fell short of the incredible 98 on the 2017 trip, which was warm and sunny throughout. In spite of sometimes difficult weather conditions and a retarded season (particularly at altitude), all the iconics were seen except for Spanish Fritillary, which is always a bit of a frustration to find, being so rare in this region. A fantastic array of plants was also seen which was appreciated by the botanists in the group.

Thankfully, the return journey to the airport was quiet traffic-wise and problem free, with it being a Bank Holiday due to Ascension Day, and the flight back to Stansted took off to schedule the end to a highly satisfactory week in this beautiful, wildlife-rich area of south west France.

**Acknowledgements.** Greenwings would like to thank all the guests on this trip for their convivial company throughout the week. The hotel staff did a great job ensuring everybody was comfortable and whilst the evening main course tended to be a little unimaginative, the breakfast offerings were exceptionally diverse and guests were able to choose their own lunches in the handily located supermarket opposite the hotel.

This was the second year in succession that a late season adversely affected butterfly numbers, and it was disappointing that a day and a half was lost due to inclement weather. The schedule had to be kept flexible due to the changing forecasts, but in the end all the advertised sites were visited bar one, and when cloud and light rain DID interfere, it gave everyone the opportunity to study the fabulous array of plant species that grow in this region, particularly the wonderful orchids.



Map Butterfly © David Moore

Eastern French Pyrenees 2019 species checklist			Thu 23rd May	Fri 24th May	Sat 25th May	Sun 26th May	Mon 27th May	Tue 28th May	Wed 29th May
Butterflies			day 1	day 2	day 3	day 4	day 5	day 6	Day 7
	<b>Apollos &amp; Swallowtails</b>	Family <b>Papilionidae</b>							
1	Swallowtail	<i>Papilio machaon</i>	✓			✓	✓	✓	
2	Iberian Scarce Swallowtail	<i>Iphiclides feisthamelii</i>	✓			✓		✓	
3	Spanish Festoon	<i>Zerynthia rumina</i>				✓		✓	
4	Apollo	<i>Parnassius apollo</i>	✓				✓	✓	
5	Clouded Apollo	<i>Parnassius mnemosyne</i>	✓						✓
	<b>Whites &amp; Yellows</b>	Family <b>Pieridae</b>							
6	Black-veined White	<i>Aporia crataegi</i>	✓			✓		✓	
7	Large White	<i>Pieris brassicae</i>	✓			✓	✓		
8	Small White	<i>Pieris rapae</i>	✓			✓	✓	✓	
9	Southern small white	<i>Pieris mannii</i>			✓	✓			
10	Green-veined White	<i>Pieris napi</i>	✓			✓	✓	✓	✓
11	Bath White	<i>Pontia daplidice</i>				✓		✓	
	Western Dappled White	<i>Euchloe crameri</i>							
12	Orange Tip	<i>Anthocharis cardamines</i>	✓				✓	✓	✓
13	Provence Orange Tip	<i>Anthocharis euphinoides</i>	✓					✓	✓
14	Berger's Clouded Yellow	<i>Colias alfacariensis</i>				✓	✓	✓	
15	Clouded Yellow	<i>Colias crocea</i>	✓			✓	✓	✓	✓
16	Brimstone	<i>Gonepteryx rhamni</i>	✓			✓	✓	✓	✓
17	Cleopatra	<i>Gonepteryx cleopatra</i>				✓			
18	Wood White	<i>Leptidea sinapis</i>	✓				✓	✓	✓
	<b>Blues, Coppers &amp; Hairstreaks</b>	Family <b>Lycaenidae</b>							
	Sloe Hairstreak	<i>Satyrium acaciae</i>							
	False ilex hairstreak	<i>Satyrium esculi</i>							
	Blue-spot Hairstreak	<i>Satyrium spini</i>							
19	Green Hairstreak	<i>Callophrys rubi</i>	✓			✓	✓	✓	
20	Violet Copper	<i>Lycaena helle</i>					✓		
21	Small Copper	<i>Lycaena phlaeas</i>	✓			✓		✓	



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Butterflies			day 1	day 2	day 3	day 4	day 5	day 6	Day 7
22	Sooty Copper	<i>Lycaena tityrus</i>	✓				✓		✓
23	Purple-shot Copper	<i>Lycaena alciphron</i>						✓	
24	Purple-edged Copper	<i>Lycaena hippothoe</i>							✓
25	Lang's Short-tailed Blue	<i>Leptotes pirithous</i>						✓	
26	Provençal Short Tailed Blue	<i>Cupido alcetas</i>					✓	✓	✓
27	Holly Blue	<i>Celastrina argiolus</i>				✓		✓	
28	Small Blue	<i>Cupido minimus</i>	✓			✓	✓	✓	✓
	Osiris Blue	<i>Cupido osiris</i>							
29	Green-underside Blue	<i>Glaucopsyche alexis</i>	✓			✓	✓	✓	✓
30	Chequered Blue	<i>Scolitantides orion</i>				✓	✓	✓	
31	Silver-studded Blue	<i>Plebejus argus</i>							✓
	Geranium Argus	<i>Aricia eumedon</i>							
32	Brown Argus	<i>Aricia agestis</i>	✓			✓	✓	✓	
33	Mazarine Blue	<i>Cyaniris semiargus</i>	✓		✓	✓	✓		✓
	Escher's Blue	<i>Polyommatus escheri</i>							
34	Amanda's Blue	<i>Polyommatus amandus</i>							✓
35	Chapman's Blue	<i>Polyommatus thersites</i>				✓			
36	Turquoise Blue	<i>Polyommatus dorylas</i>			✓	✓	✓		
37	Adonis Blue	<i>Polyommatus bellargus</i>	✓			✓	✓	✓	
38	Common Blue	<i>Polyommatus icarus</i>	✓			✓	✓	✓	✓
	<b>Aristocrats and Browns</b>	Family <b>Nymphalidae</b>							
39	Duke Of Burgundy	<i>Hamearis lucina</i>	✓				✓	✓	
40	Nettle-Tree Butterfly	<i>Libythea celtis</i>	✓					✓	
41	Southern White Admiral	<i>Limenitis reducta</i>				✓		✓	
	White Admiral	<i>Limenitis camilla</i>							
42	Camberwell beauty	<i>Nymphalis antiopa</i>	✓				✓	✓	
43	Peacock	<i>Inachis io</i>	✓						
44	Small Tortoiseshell	<i>Aglais urticae</i>	✓			✓	✓	✓	✓
	Large Tortoiseshell	<i>Nymphalis polychloros</i>							

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Butterflies			day 1	day 2	day 3	day 4	day 5	day 6	Day 7
45	Red Admiral	<i>Vanessa atalanta</i>				✓	✓	✓	✓
46	Map Butterfly	<i>Araschnia levana</i>							✓
47	Painted Lady	<i>Vanessa cardui</i>				✓		✓	
48	Queen of Spain Fritillary	<i>Issoria lathonia</i>	✓			✓	✓	✓	✓
49	Comma	<i>Polygonia c-album</i>	✓					✓	
50	Cardinal Fritillary	<i>Argynnis pandora</i>				✓			
	Dark Green Fritillary	<i>Argynnis aglaja</i>							
	High Brown Fritillary	<i>Argynnis adippe</i>							
	Marbled Fritillary	<i>Brenthis daphne</i>							
	Lesser Marbled Fritillary	<i>Brenthis ino</i>							
51	Pearl-bordered Fritillary	<i>Boloria euphrosyne</i>					✓		✓
52	Weaver's Fritillary	<i>Boloria dia</i>	✓				✓	✓	
53	Glanville Fritillary	<i>Melitaea cinxia</i>	✓		✓	✓	✓	✓	✓
54	Knapweed Fritillary	<i>Melitaea phoebe</i>	✓			✓		✓	✓
55	False Heath Fritillary	<i>Melitaea diamina</i>						✓	
56	Spotted Fritillary	<i>Melitaea didyma</i>	✓			✓		✓	✓
57	Heath Fritillary	<i>Melitaea athalia</i>				✓			
58	Provençal Fritillary	<i>Mellicta dejone</i>	✓			✓		✓	
59	Meadow Fritillary	<i>Melitaea parthenoides</i>					✓		✓
	Spanish Fritillary	<i>Euphydryas desfontainii</i>							
60	Marsh Fritillary	<i>Euphydryas aurinia</i>				✓	✓	✓	
	Iberian Marbled White	<i>Melanargia Lachesis</i>							
61	Western Marbled White	<i>Melanargia occitanica</i>			✓	✓			✓
	Grayling	<i>Hipparchia semele</i>							
62	De Prunner's Ringlet	<i>Erebia triaria</i>	✓				✓	✓	
63	Bright-eyed Ringlet	<i>Erebia oeme</i>							✓
64	Meadow Brown	<i>Maniola jurtina</i>	✓		✓	✓			
65	Spanish Gatekeeper	<i>Pyronia bathseba</i>				✓			✓
66	Small Heath	<i>Coenonympha pamphilus</i>	✓		✓	✓	✓		✓



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	Dusky Heath	<i>Coenonympha dorus</i>							
67	Pearly Heath	<i>Coenonympha arcania</i>						✓	✓
68	Speckled Wood	<i>Pararge aegeria</i>	✓		✓	✓	✓	✓	✓
69	Wall	<i>Lasiommata megera</i>	✓		✓	✓	✓	✓	✓
70	Large Wall	<i>Lasiommata maera</i>	✓			✓			✓
	<b>Skippers</b>	Family <b>Hesperiidae</b>							
71	Southern grizzled Skipper	<i>Pyrgus malvoides</i>	✓			✓	✓	✓	✓
72	Large Grizzled Skipper	<i>Pyrgus alveus</i>	✓				✓		
73	Oberthür's grizzled skipper	<i>Pyrgus armoricanus</i>					✓		✓
74	Olive Skipper	<i>Pyrgus serratulae</i>							✓
75	Safflower Skipper	<i>Pyrgus carthami</i>	✓						
76	Red-underwing Skipper	<i>Spialia sertorius</i>	✓			✓	✓	✓	✓
	Mallow Skipper	<i>Carcharodus alceae</i>							
77	Tufted Marbled Skipper	<i>Carcharodus flocciferus</i>	✓			✓			
78	Dingy Skipper	<i>Erynnis tages</i>				✓	✓		✓
79	Chequered Skipper	<i>Carterocephalus palaemon</i>							✓
80	Lulworth Skipper	<i>Thymelicus acteon</i>							✓
	Small Skipper	<i>Thymelicus sylvestris</i>							
81	Large Skipper	<i>Ochlodes sylvanus</i>				✓		✓	✓



Notable Plants		
	PTERIDOPHYTES	Day
	<b>Aspleniaceae</b>	
1	<i>Asplenium septentrionale</i> - Forked Spleenwort	7
2	<i>Asplenium trichomanes</i> - Maidenhair Spleenwort	1
3	<i>Asplenium ruta-muraria</i>	2
4	<i>Asplenium viridis</i>	5
5	<i>Ceterach officinarum</i> - Rusty back Fern	3
	<b>Polypodiaceae</b>	
6	<i>Polypodium cambricum</i> - Welsh Polypody	1
	<b>GYMNOSPERMS</b>	
	<b>Pinaceae</b>	
7	<i>Pinus sylvestris</i> - Scots Pine	5
8	<i>Pinus mugo</i>	5
9	<i>Picea abies</i>	5
	<b>Cupressaceae</b>	
10	<i>Cypressus sempervirens</i>	3
11	<i>Juniperus communis</i>	3
12	<i>Juniperus horizontalis</i>	3
	<b>ANGIOSPERMS</b>	
	<b>DICOTYLEDONS</b>	
	<b>Apiaceae</b>	
13	<i>Bupleurum fruticosum</i> - Shrubby Hare's ear	3
14	<i>Foeniculum vulgare</i> - Fennel	3
15	<i>Pimpinella saxifraga</i>	5
	<b>Aristolochiaceae</b>	
16	<i>Aristolochia rotunda</i> - a birthwort	4
	<b>Asclepiadaceae</b>	
17	<i>Vincetoxicum hirundinaria</i> ssp. <i>intermedium</i>	3
	<b>Asteraceae</b>	
18	<i>Andryala integrifolia</i>	3
19	<i>Anthemis tinctoria</i>	3
20	<i>Carduus nigrescens</i>	2



21	<i>Catananche caerulea</i>	4
22	<i>Centaurea aspera</i>	3
23	<i>Centaurea cyanus</i>	4
24	<i>Centaurea jacea</i>	3
25	<i>Centaurea pectinata</i>	6
26	<i>Crupina crupinastrum</i>	3
27	<i>Galactites tomentosa</i>	3
28	<i>Cirsium eriophorum</i>	2
29	<i>Filago gallica</i>	3
30	<i>Leucanthemum vulgare</i>	3
31	<i>Leuzea conifera</i>	4
32	<i>Pallenis spinosa</i>	3
33	<i>Phagnalon sordidum</i>	1
34	<i>Reichardia picroides</i>	3
35	<i>Senecio inaequidens</i>	6
36	<i>Silybum marianum</i>	2
37	<i>Tolpis barbata</i>	3
38	<i>Tragopogon crocifolius</i> - Goatsbeard Salsify	4
39	<i>Urospermum dalechampii</i> - Smooth Golden Fleece	3
	<b>Boraginaceae</b>	
40	<i>Anchusa italica</i> - Italian Bugloss	
41	<i>Buglossoides arvensis</i>	1
42	<i>Echium vulgare</i> -Viper's Bugloss	3
43	<i>Echium plantagineum</i> - Purple Viper's Bugloss	5
44	<i>Lithospermum purpureum</i>	
45	<i>Pulmonaria affinis</i>	5
	<b>Brassicaceae</b>	
46	<i>Aethionema saxatile</i>	3
47	<i>Alliaria petiolata</i>	2
48	<i>Arabis hirsuta</i>	1
49	<i>Arabis turrilis</i>	1
50	<i>Barbarea sp.</i>	2
51	<i>Biscutella cichoriifolia</i>	1

52	<i>Cardamine heptaphylla</i>	2
53	<i>Cardamine raphanifolia</i>	1
54	<i>Lunaria annua</i>	7
	<b>Campanulaceae</b>	
55	<i>Campanula persicifolia</i>	6
56	<i>Campanula rapunculus</i> - Rampion Bellflower	4
57	<i>Campanula speciosa</i>	7
58	<i>Jasione laevis</i>	1
	<b>Caprifoliaceae</b>	
59	<i>Lonicera etrusca</i> - Etruscan Honeysuckle	3
	<b>Caryophyllaceae</b>	
60	<i>Arenaria serpyllifolia</i>	6
61	<i>Dianthus carthusianorum</i> - Carthusian Pink	7
62	<i>Dianthus hispanicus</i>	3
63	<i>Cerastium cerastoides</i>	6
64	<i>Herniaria glabra</i>	6
65	<i>Petrohragia prolifera</i>	3
66	<i>Saponaria ocymoides</i> - Rock Soapwort	1
67	<i>Silene alba</i> - White Campion	2
68	<i>Silene dioica</i> - Red Campion	2
69	<i>Silene vulgaris</i> - Bladder Campion	2
70	<i>Stellaria holostea</i> - Greater Stitchwort	1
	<b>Celastraceae</b>	
71	<i>Euonymus europaeus</i>	6
	<b>Cistaceae</b>	
72	<i>Cistus albidus</i>	3
73	<i>Cistus laurifolius</i> - Laurel-leaved Rockrose	3
74	<i>Cistus monspeliensis</i> - Montpellier Cistus	3
75	<i>Helianthemum apenninum</i>	3
76	<i>Helianthemum canum</i>	6
77	<i>Helianthemum nummularium</i> ssp. <i>glabrum</i> - Common Rockrose	4
	<b>Convolvulaceae</b>	
78	<i>Convolvulus althaeoides</i>	3

79	<i>Convolvulus cantabrica</i>	2
80	<i>Convolvulus lanuginosus</i>	3
	<b>Cornaceae</b>	
81	<i>Cornus mas</i>	6
	<b>Crassulaceae</b>	
82	<i>Sedum dasyphyllum</i>	2
83	<i>Umbilicus rupestris</i> - Navelwort	1
	<b>Cytinaceae</b>	
84	<i>Cytinus hypocistis</i>	6
	<b>Dipsacaceae</b>	
85	<i>Knautia dipsacifolia</i> - Wood scabious	7
	<b>Euphorbiaceae</b>	
86	<i>Euphorbia amygdaloides</i> - Wood Spurge	7
87	<i>Euphorbia characias</i>	3
88	<i>Euphorbia cyparissias</i> - Cypress Spurge	1
89	<i>Euphorbia lathyris</i>	6
90	<i>Euphorbia peplis</i>	3
91	<i>Euphorbia serrata</i>	3
	<b>Fabaceae</b>	
92	<i>Anthyllis vulneraria</i> ssp. <i>forondae</i> Kidney Vetch	1
93	<i>Coronilla emerus</i>	3
94	<i>Coronilla scorpioides</i> - Annual Scorpion-vetch	3
95	<i>Dorycnium pentaphyllum</i> - Prostrate Canary clover	3
96	<i>Genista sagittalis</i>	1
97	<i>Hippocrepis comosa</i> - Horseshoe Vetch	3
98	<i>Lathyrus aphaca</i>	6
99	<i>Lathyrus glycyphyllos</i>	1
100	<i>Lathyrus pratensis</i> - Meadow Pea	6
101	<i>Lathyrus setifolius</i>	1
102	<i>Medicago lupulina</i>	2
103	<i>Medicago minima</i> - Bur Medick	3
104	<i>Onobrychis supina</i>	3
105	<i>Onobrychis viciifolia</i> - Common Sainfoin	5



106	<i>Ononis spinosa</i>	3
107	<i>Ononis natrix</i>	3
108	<i>Psoralea bituminosa</i> - Pitch Trefoil	3
109	<i>Spartium junceum</i> - Spanish Broom	3
110	<i>Tetragonolobus maritimus</i>	7
111	<i>Trifolium arvense</i> - Hare's-foot Clover	3
112	<i>Trifolium campestre</i> - Hop Trefoil	3
113	<i>Trifolium incarnatum</i> - Crimson Clover	4
114	<i>Trifolium leucanthum</i>	3
115	<i>Trifolium montanum</i> - Mountain Clover	7
116	<i>Trifolium pratense</i> - Red Clover	1
117	<i>Trifolium stellatum</i>	3
118	<i>Vicia cracca</i> - Tufted Vetch	1
119	<i>Vicia onobrychioides</i> - False Sainfoin	1
120	<i>Vicia sativa</i> - Common Vetch	1
121	<i>Vicia sepium</i> - Bush Vetch	1
122	<i>Vicia villosa</i> - Fodder Vetch	1
	<b>Fagaceae</b>	
123	<i>Quercus coccifera</i> - Kermes Oak	3
	<b>Gentianaceae</b>	
124	<i>Gentiana clusii</i>	7
125	<i>Gentiana verna</i> - Spring Gentian	5
	<b>Geraniaceae</b>	
126	<i>Erodium cicutarium</i> - Stork's Bill	6
127	<i>Geranium lucidum</i> - Shining Cranesbill	1
128	<i>Geranium pyrenaicum</i> - Mountain Cranesbill	1
129	<i>Geranium robertianum</i> - Herb Robert	1
130	<i>Geranium rotundifolium</i> - Round-leaved Cranesbill	1
131	<i>Geranium sanguineum</i> - Bloody Cranesbill	6
132	<i>Geranium sylvaticum</i> - Wood Cranesbill	7
	<b>Globulariaceae</b>	
133	<i>Globularia cordifolia</i>	3
134	<i>Globularia vulgaris</i>	6

	<b>Hypericaceae</b>	
135	<i>Hypericum perforatum</i> - Perforate St John's-wort	3
	<b>Lamiaceae</b>	
136	<i>Lamium album</i> - White Dead-nettle	1
137	<i>Lamium galeobdolon</i>	2
138	<i>Lamium garganicum</i>	1
139	<i>Lavandula angustifolia</i> - Lavender	4
140	<i>Lavandula stoechas</i> - French Lavender	3
141	<i>Melilithis melissophyllum</i>	4
142	<i>Nepeta latifolia</i>	5
143	<i>Rosmarinus officinalis</i> - Rosemary	3
144	<i>Salvia verbenaca</i> - Wild Clary	3
145	<i>Stachys recta</i>	1
146	<i>Teucrium aureum</i>	3
147	<i>Thymus vulgaris</i> - Thyme	4
	<b>Linaceae</b>	
148	<i>Linum trigynum</i>	4
149	<i>Linum narbonense</i>	3
	<b>Malvaceae</b>	
150	<i>Malva neglecta</i> - Dwarf Mallow	2
151	<i>Malva sylvestris</i> - Common Mallow	2
	<b>Orobanchaceae</b>	
152	<i>Lathraea clandestina</i> - Purple toothwort	2
153	<i>Orobanche gracile</i>	4
	<b>Oleaceae</b>	
154	<i>Jasminum fruticans</i> - Wild Jasmine	4
	<b>Papaveraceae</b>	
155	<i>Chelidonium majus</i> - Greater Celandine	1
156	<i>Papaver rhoeas</i> - Corn Poppy	3
	<b>Plumbaginaceae</b>	
157	<i>Armeria maritima</i> - Thrift	7
	<b>Plantaginaceae</b>	
158	<i>Plantago afra</i>	2

159	<i>Plantago sempervirens</i>	3
	<b>Polygalaceae</b>	
160	<i>Polygala nicaeënsis</i>	1
161	<i>Polygala vulgaris</i>	2
	<b>Polygonaceae</b>	
162	<i>Persicaria bistorta</i>	7
	<b>Primulaceae</b>	
163	<i>Anagallis arvensis</i> - Scarlet Pimpernel	3
164	<i>Primula veris</i> - Cowslip	1
	<b>Ranunculaceae</b>	
165	<i>Aquilegia vulgaris</i> - Columbine	7
166	<i>Caltha palustris</i>	5
167	<i>Hepatica nobilis</i>	1
168	<i>Ranunculus bulbosus</i>	1
	<b>Resedaceae</b>	
169	<i>Reseda sp.</i>	3
170	<i>Reseda lutea</i> - Wild Mignonette	6
171	<i>Reseda phyteuma</i> - Corn Mignonette	
	<b>Rhamnaceae</b>	
172	<i>Rhamnus alaternus</i> - Mediterranean Buckthorn	
	<b>Rosaceae</b>	
173	<i>Aphanes arvensis</i>	6
174	<i>Geum urbanum</i> - Herb Bennet	6
175	<i>Potentilla argentea</i> - Silvery Cinquefoil	6
176	<i>Sanguisorba minor</i> - Salad Burnet	3
	<b>Rubiaceae</b>	
177	<i>Cruciata laevipes</i>	6
178	<i>Galium odoratum</i>	2
179	<i>Sherardia arvensis</i> - Field Madder	4
180	<i>Rubia peregrina</i>	3
	<b>Rutaceae</b>	
181	<i>Ruta angustifolius</i>	3
	<b>Santalaceae</b>	



182	<i>Osyris alba</i>	3
183	<i>Thesium catalaunicum</i>	4
	<b>Saxifragaceae</b>	
184	<i>Saxifraga granulata</i> - Meadow saxifrage	1
185	<i>Saxifraga paniculata</i>	5
186	<i>Saxifraga rotundifolia</i>	1
187	<i>Saxifraga geranioides</i>	6
	<b>Scrophulariaceae</b>	
188	<i>Antirrhinum siculum</i> - Sicilian Snapdragon	2
189	<i>Asarina procumbens</i>	5
190	<i>Digitalis lutea</i>	6
191	<i>Erinus alpinus</i>	6
192	<i>Linaria micrantha</i>	1
193	<i>Misopates orontium</i> - Weasel's Snout	3
194	<i>Rhinanthus angustifolius</i>	1
195	<i>Scrophularia canina</i>	3
196	<i>Veronica chamaedrys</i>	1
	<b>Valerianaceae</b>	
197	<i>Centranthus angustifolia</i>	3
198	<i>Centranthus rubra</i>	2
199	<i>Valeriana montana</i>	6
200	<i>Valerianella sp</i>	1
	<b>Violaceae</b>	
201	<i>Viola tricolor</i>	2
	<b>MONOCOTYLEDONS</b>	
	<b>Amaryllidaceae</b>	
202	<i>Narcissus poeticus</i> - Poet's Narcissus	2
	<b>Liliaceae</b>	
203	<i>Anthericum liliago</i> - St Bernard's Lily	4
204	<i>Aphyllanthes monspeliensis</i> - Blue Grass Lily	7
205	<i>Dipcadi serotinum</i> - Dipcadi	3
206	<i>Erythronium des-canis</i>	2
207	<i>Muscari comosum</i> - Tassel Hyacinth	1

208	<i>Polygonatum odoratum</i>	4
209	<i>Ruscus aculeatus</i> - Butcher's Broom	
	<b>Orchidaceae</b>	
210	<i>Orchis anthropophorum</i> - Man Orchid	3
211	<i>Anacamptis morio</i> - Green-winged Orchid	2
212	<i>Anacamptis pyramidalis</i> - Pyramidal Orchid	3
213	<i>Cephalanthera longifolia</i> - Sword-leaved Helleborine	2
214	<i>Dactylorhiza maculata</i> - Heath Spotted Orchid	7
215	<i>Dactylorhiza sambucina</i> - Elderflower Orchid (Red and Yellow forms)	2
216	<i>Epipactis microphylla</i> - Small-leaved Helleborine	4
217	<i>Neottia ovata</i> - Common Twayblade	7
218	<i>Ophrys argensonensis</i>	3
219	<i>Ophrys insectifera</i> - Fly Orchid	4
220	<i>Ophrys scolopax</i> - Woodcock Orchid	4
221	<i>Orchis militaris</i> - Military Orchid	7
222	<i>Orchis olbiensis</i> - Southern Early Purple	2
223	<i>Orchis purpurea</i> - Lady Orchid	7
224	<i>Orchis ustulata</i> - Burnt-tip Orchid	2
225	<i>Platanthera chlorantha</i> - Greater Butterfly-orchid	7
	<b>Xanthorrhoeaceae</b>	
226	<i>Asphodelus albus</i>	1





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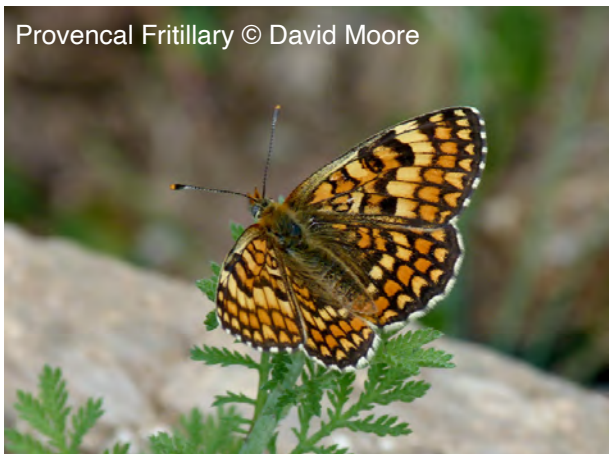


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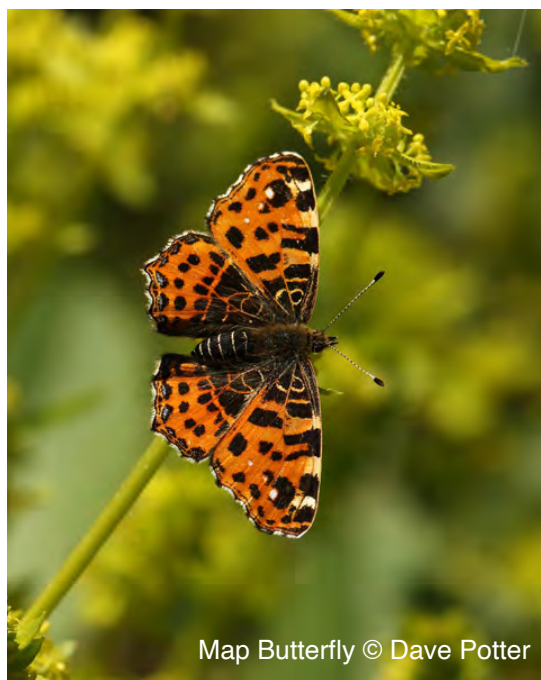
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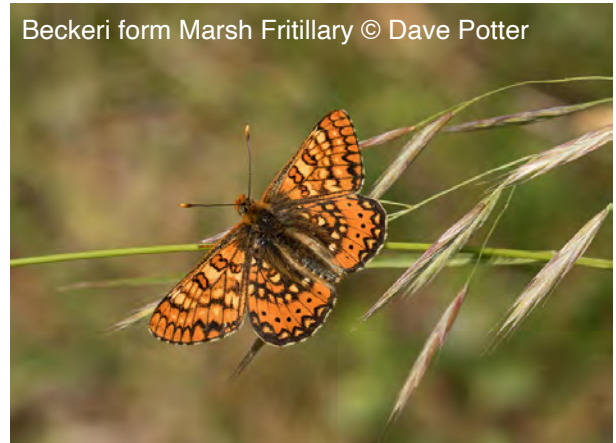


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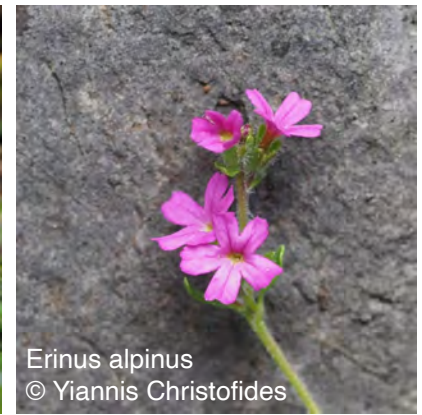
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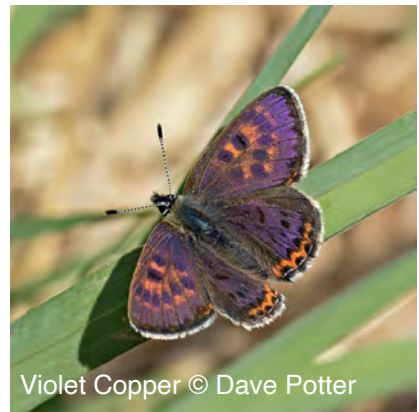
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