# Flowers of Italy's Gargano Peninsula

Naturetrek Tour Report 20 - 27 April 2008

Orchid meadow

Man Orchid

Green Underside Blue

Iris Meadow

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## Day 1 Saturday 18th April

### Mainly cloudy, rain later

Jessica and Andy met most of the group members at Gatwick airport, for our 12.30 flight to Bari, where we met with Roger and Robin. Having collected the minibuses, we managed to locate a supermarket, before heading north for the Gargano. We made good time on the autostrada, before taking a road towards the coast, along which there was alot of Giant Fennel (*Ferula communis*). As the light failed, the rain started, we reached the Hotel Santangelo ready for delicious pizzas.

## Day 2 Sunday 19th April

### Weather: Grey at first, becoming bright. Heavy showers later

The overnight rain stopped, and after a leisurely breakfast, we left shortly after 9am to begin our first full day botanising the meadows along the road from the hotel. Our first stop was an unfenced meadow all of 300m away. Looking quite bare at a distance, we were impressed by the array of orchids at our feet, especially the yellow *Ophrys*, both *O. lutea* and, in greater quantity, *O. sicula*, told by its brown V on the margin of the lip. We also started to find the dark Ophryses: the larger Gargano Ophrys (*O. passionis garganica*), the endemic Promontory Ophrys (*O. promontoria*), the dark Ophrys (*O. incubacea*), and the delightful Bertolonii's Ophrys (*O. bertolonii*) with its 'ski-slope' lip.

As we wandered up the slope, we also started to find Pink Butterfly Orchids (*Orchis papilionacea*), and Green-winged Orchid (*Orchis morio*), and other plants such as the little pink flowered Sainfoin (*Onobrychis aequidentata*), and the blue Dyers Alkanet (*Alkanna lehmannii*). In the meadow opposite there was a beautiful stand of the delicate lemon-yellow *Iris pseudopumila*, growing on the roof of an old shepherd's hut.

We proceeded a little further down the road, stopping by a track to a radio mast. Exploring the meadow below the road we found more *Ophrys* specimens including the Sawfly Ophrys (*Ophrys tenthredinifera)* and a fairly pure *Ophrys sipontensis*. We also found the yellow and white rockroses (*Helianthemum nummularium* and *H. apenninum)*, the red vetch *Lathyrus cicera* and Shepherd's Needles (*Scandix pectin-veneris*).

Eventually, we started up the track towards the mast. The flowers here were even more stunning and first we found a magnificent specimen of the Giant Orchid (*Himantoglossum robertianum*): an unusual sight, as it is a very early flowerer, and spikes of Lady Orchid (*Orchis purpurea*) coming into bloom. Pink Butterfly Orchid (*Orchis papilionacea*), Green-winged Orchids (*Orchis morio*), Man Orchid (*Orchis anthropophora*), and Naked Man Orchid (*Orchis italica*) and Milky Orchid (*O. lactea*) were in profusion. We found some interesting hybrids between Pink Butterfly and Green-winged Orchids (*Orchis papilionacea x morio*), and started to recognise some of the *Ophrys* hybrids. We also found the third in the trio of rockroses, the much smaller flowered, yellow, Hoary Rockrose (*H. oelandicum ssp canum*).

We had excellent views of Subalpine Warbler, singing in a tree, and also heard Crested Lark and Wood Lark. Butterflies were fairly scarce, due to the low temperatures, but when the sun came out we saw, amongst others, Orange tips flying, together with Small Copper, Baton Blue and Small Heath.

After our picnic lunch of local hams and cheeses, we continued our slow progress along the road. Driving through fields of Asphodel (*Asphodelus aestivus*) we came to the monastery of Sante Madre di Dio at Pulsano. Here on the rocks, we found the endemic Pale Goldendrop (*Onosma lucana*), and the tiny *Evax pygmaea*, Yellow Asphodel (*Asphodeline lutea*), Ground Pine (*Ajuga chamaepitys*) and a colony of the Bumblebee Ophrys (*Ophrys bombyliflora*). A member of the group found, and caught, an Italian Three-toed Skink, which we were able to see close up, before it was released.

Some of the group visited the abbey church, built into the cliff, with its fine carvings and large plant of White Henbane (*Hyoscyamus albus*) near the door. The rain started as we left, so we made our way back to the hotel for coffee and tea, and some time to relax before dinner.

## Day 3 Monday 20th April

### Weather: Early fog and rain, becoming bright

Low cloud and rain had eased by the time we left the hotel to explore the wooded interior of Gargano: the Bosco Quarto. Our first stop was as we entered the Valle Carbonara, as we realised that the yellow flowers in the fields were Wild Tulips, *Tulipa sylvestris*. Here we also found *Bellevalia dubia,* with its blue flowers which turn brown as they open.

Moving on, our next stop was at some rocky meadows by a road junction, where we saw plenty of the lemon *Iris pseudopumila* and the Gargano Ophrys (*Ophrys passionis garganica*).

As we went up the path opposite, we found the Spectacled Ophrys, *Ophrys biscutella*, with its pink sepals and petals, and double shield-shaped markings on the lip. A cuckoo was seen and heard, as well as Tree Pipit. Further along the track we found plenty of the delicate pansy *Viola heterophylla ssp graeca* which occurs in Gargano, Albania and Greece.

We then continued down the road towards the Bosco Quarto, very soon stopping to admire a bank covered with Peonies (*Paeonia mascula*), while being serenaded by a nightingale. Here we also found Black Vetch (*Vicia melanops*) and Tassel Hyacinth (*Muscari commosum*), and a scorpion under a rock. Our next stop was to admire carpets of Pheasant's-eye Narcissus (*Narcissus poeticus*), the blue and white *Anemone apennina,* growing next to the pink *Anemone hortensis,* more Widow Iris (*Hermodactylus tuberosus*) and yellow Heart-leaved Leopardsbane (*Doronicum columnae*). Moving on, we stopped next for the Roman Orchid (*Dactylorhiza romana*), and here we also found a specimen of Violet Limodore, also called Violet Bird's-Nest Orchid (*Limodorun abortivum*), not yet out, and leaves of Broad-leaved Helleborine (*Epipactis helleborine*). Our picnic site was by some lovely old Eastern Hornbeams (*Carpinus orientalis*).

Setting off after lunch, through the trees, mainly Downy Oak (*Quercus pubescens*), we found fine examples of Lungwort (*Pulmonaria sp.* probably *P. saccharata*), Coralroot Bittercress (*Cardamine bulbifera*) with its black bulbils in the leaf axils, and its smaller relative, Ivy-leaved Bittercress (*Cardamine plumieri*), and Bird-in-a-Bush (*Corydalis solida*). At the wood edge we found Green Hairstreak and Southern Festoon butterflies.We crossed a field, meeting a very helpful farmer who insisted on cutting his fence to let us onto the track more easily. As we walked along the track, we had good views of a two Hobbies, flying fast. Cattle and horses were grazing, making a melody with their bells.

At a couple of pools, white with Water Crowfoot (*Ranunculus aquatilis*) we saw three Yellow wagtails, of the Blue-headed and Grey-headed races. The path then went uphill, where we paused to enjoy a rocky hillside and the endemic *Ophrys bertiloniiformis* was found. The slope was covered with *Iris lutescens* mainly in purple, but also cream. Continuing along the path, a Green Lizard was seen. We re-entered the wood, returning to the buses, and back to the hotel.

## Day 4 Tuesday 21st April

### Weather: Very low cloud, rain early and late, windy

Today our destination was due to be Monte Sacro, the Sacred Mountain. However, in Monte Sant'Angelo we were in thick fog, so we weren't sure whether we could get there. Following the twisty road out of Monte St Angelo, we descended to Mattinata, coming out of the cloud as we reached the plains. Giovanni, the author of the local orchid book met us at Mattinata and confirmed that it was indeed too foggy to attempt Monte Sacro, but led us to another site, Coppa Rotonda, about 1km past the Monte Sacro road. This was a steep hillside next to the road, where there were many fine specimens of the endemic *Ophrys apulica*, with its bright pink petals and sepals and well-marked lip. We also found two species of Tongue Orchid in flower: the Small-Flowered Tongue Orchid (*Serapias parviflora*) with its tiny lip, and the commoner Tongue Orchid (*Serapias lingua*). Another new orchid on the slope was the Dark Ophrys (*Ophrys fusca*), and several specimens of another *Ophrys lutea* type, with far more extensive brown on the lip. This is named by the author of the local orchid book as *Ophrys melena*, whereas Delforge reckons it is closer to *O. numida*, and possibly an undescribed taxon (Delforge p.417).

We then repaired to Mattinata, for a well-deserved coffee, enjoying the bustle of a local cafe, and also finding the opportunity for buying postcards. We then drove down to the sea, but as the wind was cold, we had our picnic on the balcony of a cafe, where there was shelter.

In the afternoon, we drove south of Manfredonia, to explore the coastal plain, marsh and Salines (Palude ex Daunia-Risi). Passing many very fine specimens of Giant Fennel (*Ferula communis*) our first stop was among carpets of golden and some bi-coloured Crown Daisies (*Glebionis coronarium*), with Common Mallow (*Malva sylvestris*), Poppies (*Papaver rhoeas*) and Field Marigold (*Calendula arvensis*). In the pines were both Tree Sparrows and Spanish Sparrows, while good views were had of a Common Sandpiper, and a Hoopoe was seen briefly. On the other side of the road, over the reed beds, a Marsh Harrier was seen, and excellent views of a Purple Heron.

Moving on, we stopped by some pools (Salines) where a flock of Greater Flamingos gave much pleasure, and good views were had of Avocets, a Spoonbill, Black-winged Stilts, Slender-billed Gulls, Sandwich Terns and Little Terns. After this diversion into birding, we then returned to the hotel.

## Day 5 Wednesday 22nd April

### Weather: Cloudy early, becoming bright, with some sun

As the weather was better today, we decided to head again for Monte Sacro, driving up the steep road to the base of the footpath, where we left the buses. We set out up the rocky path, soon finding a new species in the Dense-flowered Orchid (*Orchis intacta*, was *Neotinia maculata*). There were also many fine specimens of now familiar species such as Apulian Orchid (*Ophrys apulica*) and Dull Ophrys (*Ophrys incubacea*). Continuing up the path, through light woodland of Holm Oak, *Quercus ilex,* we encountered another new species, the yellow Sparse-flowered Orchid (*Orchis pauciflora*) in wonderfully great profusion, together with some early Four-spotted Orchids (*Orchis quadripunctata*). We also saw the delicate blue *Anchusa cretica*, more white rockroses (*Helianthemum apenninum*) and purple and cream *Iris lutescens,* while cuckoos called. We eventually reached a little shrine with benches, for a well-deserved rest.

Some of the group continued to the top of the mountain, to the ruined monastery; where we enjoyed the architecture and ambience of this ancient building. On the walls of the monastery we found the leaves of the endemic bellflower *Campanula garganica*, and the tiny mauve Spring Rockcress, *Arabis verna*.. A Scorpion was found under a stone: this is the other European species to the one found on Monday and is harmless. There were also more specimens of the Roman Orchid (*Dactylorhiza romana*) looking at a distance, very similar to the Sparse-flowered Orchids.On the hillside we found some early specimens of Sword-leaved Helleborine, *Cephalanthera longifolia*, just coming into flower. Descending to the buses, we enjoyed our picnic on a rocky bank, with Whitethroats and a pair of Cirl Buntings.

Setting out for home, we stopped on the Mattinata-Manfredonia road at the junction for Monte Sant'Angelo. Here we walked along a track, through maquis. Species seen included Sage-leaved Cistus (*Cistus salvifolius*), the smaller white flowered Narrow-leaved Cistus (*Cistus monspeliensis*), the Mastic (*Pistacia lentiscus*), Rosemary (*Rosmarinus officinalis*) and Prasium (*Prasium majus*). A fine male Italian Wall Lizard was seen at close quarters, and butterflies included numbers of Painted Ladies. We were also accompanied by two very affectionate local dogs!

We then returned to Monte St Angelo, where some group members had the opportunity to explore the ancient town with its castle and medieval church, while others returned to the hotel or revisited the fields down the road.

## Day 6 Thursday 23rd April

### Weather: grey, with bright intervals; heavy thunderstorms midday

Today it was time to pack and move on to our second hotel at Peschici. We started the day with a short trip down Via Pulsano, to see the Man Orchid x Naked Man Orchid hybrid (*Orchis anthropophora x italica*), a fine plant, strikingly different from either parent. Some braved the bank and fence to get close, while others had excellent views through Andy's telescope. Moving on, we then walked part of the Pilgrim's Path, down from Monte St Angelo, enjoying the shelter of the hillside. The rocks along the way were covered in patches of mauve Aubretia (*Aubretia columnae italica*), an endemic subspecies, and the contrasting Rockcresses: *Arabis caucasia*, with its large white flowers, probably naturalized, and Spring Rockcress, *Arabis verna.* Also endemic there was the buttercup *Ranunculus garganicus* (very similar to the common *Ranunculus millefoliatus*), and we also saw several patches of the unusual green and black flowered Black Vetch (*Vicia melanops*). There were plenty of orchids along the path, including specimens of *Ophrys passionis garganica, Ophrys incubacea, Ophrys promontorii,* and many hybrids. Lady Orchids (*Orchis purpurea*) were just coming into flower. Blackcap, Stonechat, Nightingale and Cuckoo were all heard, and a few butterflies were on the wing, including a Swallowtail, several Painted Ladies, and a couple of very tattered Large Tortoiseshells.

Having done a shuttle with the vehicles, we were soon all aboard, and were on our way north. Our route took us through the Foresta Umbra, which is predominantly Beech (*Fagus sylvatica*), with some ancient Yews (*Taxus baccata*). As we approached the forest, the skies darkened, and as we stopped at our proposed picnic site, the heavens opened. We eventually found shelter on the balcony of a closed-up building, and enjoyed our dry picnic watching the tropical style rain, while thunder cracked overhead. The fresh young foliage of the Beech looked very beautiful in the rain and mist, but otherwise our natural history interest was limited!

The rain eased as we dropped down towards Peschici, and we stopped at 'the Fly Tip Stop', a layby next to a meadow. Here we found Plough-share Tongue Orchid (*Serapias vomeracea*) in flower, together with the Small-flowered Tongue Orchid (*Serapias parviflora*), and a very fine stand of the Apulian Ophrys (*Ophrys apulica*). Moving on, we decided to explore the road from Peschici towards Vieste, an area new to us. Looking at first unpromising, with holiday developments and limited access, we pulled into a lay-by on a hill at Calalunga, to survey the scene. Here we were delighted to discover some fine specimens of a new species of *Ophrys* for us: the Woodcock Orchid, (*Ophrys scolopax*).

We could see a promising looking bay between two once-fortified headlands, and a track across a meadow by a marshy area, to the sea. The meadow held a variety of botanical delights, being blue with Tassel Hyacinth (*Muscari commosum*), the Alkanet *Alkanna lehmannii*, Large Blue Alkanet (*Anchusa azurea*), and Blue Hound's Tongue (*Cynoglossum creticum*), and there were spikes of *Gladiolus italicus* just coming into flower. However, it was the colour of the dunes that stunned us, being bright pink with *Silene colorata* and golden yellow with *Lotus cytisoides*. We explored the beach and dunes, John W. finding a colony of termites (*Reticulitermes lucifagus*) in some old wood, while overhead was a passage of Marsh Harriers, with 15 being noted. As we were leaving, we had excellent views of one of the Harriers flying low and feeding.

By now it was time to head for the Hotel Elisa, on the Harbour road at Peschici, our base for the next two nights, where we quickly settled in, and enjoyed an excellent meal.

## Day 7 Friday 24th April

### Weather: Heavy rain, easing to cloud

Today was our last whole day in the field, so we planned to explore the northern slopes of the Gargano. Unfortunately the rain returned in the night, and became heavier and more persistent as we headed out. Our route took us up the winding road out of Peschici to the much straighter main road south-west, where we turned off in the direction of Sannicandro Garganico. We soon added two more Orchid species to our swelling total: Pyramidal Orchid (*Anancamptis pyramidalis*) and Late Spider Orchid (*Ophrys fuciflora*), both growing by the roadside. We also found the extremely attractive Purple Mullein (*Verbascum phoeniceum*), the very spiny tree Christ's Thorn (*Paliurus spina-christi*), and Greater Honeywort (*Cerinthe major*), which had also been seen by some outside the supermarket on day 1.

In need of some hot refreshment, our next stop was a cafe in Sannicandro, where we took stock of the weather. We decided to take a chance on sticking to our original plans and so headed north out of Sannicandro and up into the hills – and as we did so, the rain eased. Our destination was the 'Bosco di Spina Pulci', up an extremely steep and pot-holed track. Near the top, amongst boulder strewn meadows with scrub and light woodland, we stopped for exploration and lunch. Golden Orioles were singing, and some of the group saw three (a female pursued by two males) fly across the track. The thorny scrub was mainly Mediterranean Buckthorn (*Rhamnus alaternus*) and the small red-foliaged trees were Turpentine Trees (*Pistacia terebinthus*). Still finding new species, we found the beautiful and dramatic Heart-flowered Serapias (*Serapias cordigera*) and many fine specimens of the rare *Ophrys parvimaculata*. In the woods were two yellow orchids: the familiar Roman Orchid (*Dactylorhiza romana*) but also the new Provence Orchid (*Orchis* provincialis) with its spotted leaves, and carpets of Spring Cyclamen (*Cyclamen repandum*). However, despite extensive searching, particularly by Andy M, the Fragrant Orchid (*Orchis fragans*) eluded us. A stop further down the road provided further specimens of familiar species, including a fine *Ophrys bertiloniiformis*.

On the way back, we paused overlooking the bay and Peschici, and the large wooden structure on the headland, which we deduced to be to do with fishing. (They are in fact *Trabucchi*, fishing 'machines' which are characteristic of this area.) The flora here was more typically Mediterranean, with *Cistus*, Carob (*Ceratonia siliqua*), False Senna (*Coronilla emerus ssp emeroides*) and Prasium (*Prasium majus*). The local *Antirrhinum siculum* occurs here, and a particularly interesting find was Jupiter's Beard (*Anthyllis barba-jovis*) as its only location on the east coast of Italy is on this stretch of coast. Having taken our photos, we then returned for our final evening at Peschici.

## Day 8 Saturday 25th April

### Weather: brighter, becoming warm and sunny

Today we had to head home, so with the buses loaded we retraced our route westwards, stopping on the road out of Peschici to photograph some especially fine specimens of Lady Orchid (*Orchis purpurea*) in full flower.

We also made a detour to explore the Passo d'Ingrano, but access from the main road was difficult. We found many familiar species, although not in such great numbers as earlier in the week, but we enjoyed seeing them in the dry! The sun was bringing out both flowers, such as the Pink Hawksbeard (*Crepis rubra*) and maroon goatsbeard *Tragopogon sinuatus*, and butterflies including Swallowtail, Painted ladies and Orange-tips.

However, it was soon time to return to the main road and take the A14 autostrada for Bari airport, where we said goodbye to John and Janice, and Robin and Roger, before the rest of us returned to Gatwick. Despite the weather ('unprecented' according to a local paper) we all agreed that the flowers had been stunning, especially the wealth and variety of orchids.

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# Species Lists

## Plants

| *Scientific Name* | **Common name** | **Location** |
|---|---|---|
| ***PTERIDOPHYTES* (Ferns)** | | |
| ***Aspleniaceae*** | | |
| *Asplenium trichomanes* | Maidenhair Spleenwort | Bosco Quarto, old wall |
| *Ceterach officinarum* | Rustyback | Rocks and walls in pastures |
| *Phyllitis scolopendrium* | Hart's-tongue Fern | Foresta Umbra |
| ***Dennstaedtiaceae*** | | |
| *Pteridium aquilinum* | Bracken | Pastures |
| ***Dryopteridaceae*** | | |
| *Polystichum setiferum* | Soft-shield Fern | Bosco Quarto |
| ***PINOPSIDA (Gymnosperms* - Conifers*)*** | | |
| ***Cupressaceae*** | **Juniper Family** | |
| *Cupressus sempervirens* | Italian Cypress | Widespread |
| *Juniperus oxycedrus* | Prickly Juniper | Rocky pastures Monte Sant' Angelo |
| ***Pinaceae*** | **Pine Family** | |
| *Pinus halapensis* | Aleppo Pine | Widespread |
| *Pinus pinaster* | Maritime Pine | En route |
| *Pinus pinea* | Stone or Umbrella Pine | En route |
| ***Taxaceae*** | **Yew Family** | |
| *Taxus baccata* | Yew | Foresta Umbra |
| **MAGNOLIOPSIDA (Angiosperms - Flowering Plants)** | | |
| ***Magnoliidae (Dicotyledons)*** | | |
| ***Aceraceae*** | **Maple Family** | |
| *Acer pseudoplatanus* | Sycamore | Bosco Quarto |
| *Acer obtusatum* | | Monte Sant' Angelo |
| *Acer opalus* | Italian Maple | Bosco Quarto |
| ***Aizoaceae*** | **Dew-plant Family** | |
| *Carpobrotus acinaciformis* | Hottentot Fig | Peschici |
| ***Anacardiaceae*** | **Sumach Family** | |
| *Pistacia lentiscus* | Mastic Tree | Monte Sacro |
| *Pistacia terebinthus* | Turpentine Tree | Bosci di Spina Pulci |

| *Scientific Name* | Common name | Location |
|---|---|---|
| ***Apiaceae (Umbelliferae)*** | **Carrot Family** | |
| *Daucus carota* (lvs) | Wild Carrot | Rocky pastures, Monte Sant' Angelo |
| *Eryngium campestre* (lvs) | Field Eryngo | Rocky pastures, Monte Sant' Angelo |
| *Ferrula communis* | Giant Fennel | Widespread, roadsides |
| *Laserpitium latifolium* (lvs) | Broad-leaved Sermountain | Pilgrim's Path |
| *Sanicula europaea* | Sanicle | Bosco Quarto |
| *Scandix pecten-veneris* | Shepherd's Needle | Rocky pastures, Monte Sant' Angelo |
| *Smyrnium perfoliatum* | Perfoliate Alexanders | Bosco Quarto |
| *Smyrnium rotundifolium* | | Monte Sacro |
| *Thapsia garganica* | Thapsia | Rocky pastures, Monte Sant' Angelo |
| *Tordylium apulum* | Tordylium | Mullein stop |
| ***Apocynaceae*** | **Periwinkle Family** | |
| *Nerium oleander* | Oleander | Roadsides en route |
| *Vinca major* | Periwinkle | Mullein stop |
| ***Aquifoliaceae*** | **Holly Family** | |
| *Ilex aquifolium* | Holly | Foresta Umbra |
| ***Aralaceae*** | **Ivy Family** | |
| *Hedera helix* | Ivy | Bosco Quarto |
| ***Aristolochiaceae*** | **Birthwort Family** | |
| *Aristolochia rotunda* | A Birthwort | Bosco Quarto |
| ***Asteraceae (Compositae)*** | **Daisy Family** | |
| *Andryala integrifolia* | Andryala | Rocky pastures Monte Sant' Angelo |
| *Bellis perennis* | Daisy | Rocky pastures Monte Sant' Angelo |
| *Bellis sylvestris* | Southern Daisy | Rocky pastures Monte Sant' Angelo |
| *Calendula arvensis* | Field Marigold | Roadside near Salines |
| *Carduus chrysacanthus* | Apennine Thistle | Rocky pastures Monte Sant' Angelo |
| *Cirsium tenoreanum* (lvs) | A Woolly Thistle | Bosco Quarto |
| *Crepis rubra* | Pink Hawksbeard | Mullein stop |
| *Crupina crupinastrum* | Crupina | Monte Sacro road |
| *Dittrichia viscosa* | Woody Fleabane | Monte Sacro road |
| *Doronicum columnae* | Heart-leaved Leopardsbane | Bosco Quarto |
| *Evax pygmaea* | | Pulsano Monastery |
| *Galactites tomentosa* | Galacitites | Meadow at Calalunga |
| *Glebionis (Chrysanthemum) coronarium* | Crown Daisy | Roadside near Salines |
| *Glebionis (Chrysanthemum) segetum* | Corn Marigold | Roadside near Salines |
| *Helichrysum stoechas* | A Curry Plant | Rocky pastures Monte Sant' Angelo |
| *Hyoseris radiata* | | Rocky pastures Monte Sant' Angelo |

| *Scientific Name* | **Common name** | **Location** |
|---|---|---|
| *Inula verbascifolia* | | Pulsano Monastery |
| *Jurinea mollis* | A thistle | Bosci di Spina Pulci |
| *Scorzonera lacinata* | Cut-leaved Viper's-grass | Rocky pastures Monte Sant' Angelo |
| *Scorzonera villosa* | Hairy Viper's Grass | Rocky pastures Monte Sant' Angelo |
| *Silybum marianum* | Milk Thistle | Bosco Quarto roadside |
| *Taraxacum agg.* | A Dandelion | Bosco Quarto |
| *Tragopogon sinuatus* | A Goat's-beard | Rocky pastures Monte Sant' Angelo |
| *Urospermum dalechampii* | Urospermum | Monte Sacro |
| ***Betulaceae*** | **Birch Family** | |
| *Corylus avellana* | Hazel | En route |
| *Carpinus orientalis* | Eastern Hornbeam | Bosco Quarto |
| *Ostrya carpinifolia* | Hop Hornbeam | Roadside Monte Sant' Angelo |
| ***Boraginaceae*** | **Forget-me-not Family** | |
| *Alkanna lehmanii* | Dyer's Alkanet | Rocky pastures Monte Sant' Angelo |
| *Anchusa cretica* | | Monte Sacro |
| *Anchusa Italica (azurea)* | Large Blue Alkanet | Meadow at Calalunga Bay |
| *Borago officinalis* | Borage | Roadsides in north |
| *Buglossoides arvensis* | Corn Gromwell | Peony Stop |
| *Cerinthe major* | Greater Honeywort | Mullein stop |
| *Echium plantagineum* | Purple Vipers Bugloss | Fly Tip stop |
| *Myosotis arvensis* | Field Forget-me-mot | Bosco Quarto |
| *Myosotis ramosissima* | A Forget-me-not | Rocky pastures Monte Sant' Angelo |
| *Myosotis sylvatica* | Wood Forget-me-not | Bosco Quarto |
| *Onosma lucana (endemic)* | a Goldendrop | Pulsano Monastery |
| *Pulmonaria saccharata* | A Lungwort | Bosco Quarto |
| ***Brassicaceae (Cruciferae)*** | **Cabbage Family** | |
| *Aethionema saxatile* | Burnt Candytuft | Rocky pastures Monte Sant' Angelo |
| *Alliaria petiolata* | Garlic Mustard | Bosco Quarto |
| *Alyssoides sinuata* | Alyssoides | Monte Sacro |
| *Alyssum montanum* | Mountain Alyssum | Rocky pastures Monte Sant' Angelo |
| *Alyssum saxatile* | Yellow Alyssum | Rocky pastures Monte Sant' Angelo |
| *Arabis caucasica* | Garden Rockcress | Monte Sant'Angelo and Pilgrims Path |
| *Arabis hirsuta* | Hairy Rockcress | Monte Sacro |
| *Arabis verna* | Spring Rockcress | Monte Sant'Angelo, Pilgrims Path |
| *Aubretia columnae ssp italica* | An Aubretia | Monte Sant' Angelo and Pilgrims Path |
| *Biscutella didyma* | Biscutella | Rocky pastures Monte Sant' Angelo |
| *Capsella bursa-pastoris* | Shepherd's Purse | Pulsano Monastery |
| *Cardamine bulbifera* | Coralroot | Bosco Quarto |
| *Cardamine plumieri* | Ivy-leaved Bittercress | Bosco Quarto |

| ***Scientific Name*** | **Common name** | **Location** |
|---|---|---|
| *Fourraea alpina* | | Roadside near Monte Sacro |
| *Isatis tinctoria* | Woad | En route |
| *Lepidium (Cardaria) draba* | Hoary Cress | Pulsano Monastery |
| *Matthiola incana* | Hoary Stock | Cliffs near Peschici |
| *Sinapis arvensis* | Charlock | Rocky pastures Monte Sant' Angelo |
| *Sisymbrium officinale* | Hedge Mustard | Roadside near Manfredonia |
| ***Cactaceae*** | **Cactus Family** | |
| *Opuntia ficus-indica* | Prickly Pear | En route |
| ***Campanulaceae*** | **Bellflower Family** | |
| *Campanula garganica (endemic)* | a Bellflower | Leaves only Monte Sacro Monastery |
| ***Caprifoliaceae*** | **Honeysuckle Family** | |
| *Lonicera periclymenum* | Honeysuckle | Bosco Quarto |
| *Sambucus nigra* | Elder | En route |
| ***Caryophyllaceae*** | **Pink Family** | |
| *Cerastium fontanum* | Common Mouse-ear | Rocky pastures Monte Sant' Angelo |
| *Kohlrauschia velutina* | Kohlrauschia | Meadow, Calalunga Bay |
| *Minuartia serpyllifolia* | A Sandwort | Rocky pastures Monte Sant' Angelo |
| *Silene colorata* | | Dunes, Calalunga Bay |
| *Silene conica* | Sand Catchfly | Rocky pastures Monte Sant' Angelo |
| *Silene gallica* | Small-flowered Catchfly | Mullein stop |
| *Silene italica* | Italian Catchfly | Mullein stop |
| *Silene latifolia* | White Campion | Monte Sacro |
| *Silene vulgaris* | Bladder Campion | Pulsano Monastery |
| *Stellaria media* | Common Chickweed | Bosco Quarto |
| *Stellaria nemorum* | Wood Stitchwort | Bosco Quarto |
| ***Celastraceae*** | **Spindle Family** | |
| *Euonymus europaeus* | Spindle | Bosco Quarto |
| ***Cistaceae*** | **Rock-rose Family** | |
| *Cistus creticus* | Pink Cistus | Roadside en route Monte Sacro |
| *Cistus monspeliensis* | Narrow-leaved Cistus | Track near Mattinata |
| *Cistus salvifolius* | Sage-leaved Cistus | Track near Mattinata |
| *Helianthemum apenninum* | White Rockrose | Rocky pastures Monte Sant'Angelo |
| *Helianthemum oelandicum canum* | Hoary Rockrose | Rocky pastures Monte Sant'Angelo |
| *Helianthemum nummularium* | Rockrose | Rocky pastures Monte Sant'Angelo |

| *Scientific Name* | **Common name** | **Location** |
|---|---|---|
| ***Convolvulaceae*** | **Bindweed Family** | |
| *Calystegia sp.* | A Bindweed | Peschici |
| *Convolvulus althaeoides* | Mallow-leaved Bindweed | Meadow, Calalunga Bay |
| *Convolvulus althaeoides tenuissima* | Fine-leaved Bindweed | Meadow Calalunga Bay |
| *Cuscuta epithymum* | Common Dodder | Rocky pastures Monte Sant' Angelo |
| ***Crassulaceae*** | **Stonecrop Family** | |
| *Sedum rubens* | Reddish Stonecrop | En route |
| *Umbilicus rupestris* | Wall Pennywort | Wall, Rocky pastures Monte Sant'Angelo |
| ***Dipsacaceae*** | **Teasel Family** | |
| *Dipsacus fullonum* | Wild Teasel | Road verge Monte Sant'Angelo |
| ***Ericaceae*** | **Heather Family** | |
| *Erica arborea* | Tree Heather | Edge of Foresta Umbra |
| ***Euphorbiaceae*** | **Spurge Family** | |
| *Euphorbia amygdaloides* | Wood Spurge | Bosco Quarto |
| *Euphorbia characias* | Mediterranean Spurge | Monte Sacro |
| *Euphorbia helioscopia* | Sun Spurge | Rocky pastures Monte Sant' Angelo |
| *Euphorbia myrsinites* | Broad-leaved Glaucous Spurge | Rocky pastures Monte Sant' Angelo |
| *Euphorbia nicaeensis* | | Peony stop, Bosco Quarto |
| *Euphorbia spinosa* | Spiny Spurge | Pulsano |
| *Euphorbia terracina* | | Calalunga Bay |
| *Mercurialis perennis* | Dog's Mercury | Bosco Quarto |
| ***Fabaceae (Leguminosae)*** | **Pea Family** | |
| *Anthyllis barba-jovis* | Jupiter's Beard | Cliffs above Peschici |
| *Anthyllis vulneraria ssp praepropera* | Kidney Vetch (pink) | Rocky pastures Monte Sant' Angelo |
| *Astragalus hamosus* | A Milk Vetch | Iris meadow Bosco Quarto |
| *Calycotome infesta* | Spiny Broom | En route Monte Sacro |
| *Ceratonia siliqua* | Carob | Cliffs near Peaschici |
| *Cercis siliquastrum* | Judas Tree | Pulsano |
| *Coronilla scorpioides* | Annual Scorpion Vetch | Bari Airport |
| *Cytisus decumbens ssp. elatior* | Prostrate Broom | Rocky pastures Monte Sant' Angelo |
| *Hippocrepis emerus emeroides* | False Senna | Pulsano |
| *Hippocrepis glauca* | A Horseshoe Vetch | Rocky pastures Monte Sant' Angelo |
| *Lathyrus aphaca* | Yellow Vetchling | Bosco Quarto |
| *Lathyrus cicera* | A Vetchling | Rocky pastures Monte Sant' Angelo |
| *Lathyrus ochrus* | | Peony stop, Bosco Quarto |
| *Lathyrus setifolius* | Red Grass Vetchling | Rocky pastures Monte Sant' Angelo |

| ***Scientific Name*** | **Common name** | **Location** |
|---|---|---|
| *Lotus corniculatus* | Bird's-foot Trefoil | Monte Sacro |
| *Lotus cytisoides* | A trefoil | Dunes Calalunga Bay |
| *Lupinus micranthus* | Hairy Lupin | Meadow Calalunga Bay |
| *Medicago arabica* | Spotted Medick | Bosco Quarto |
| *Medicago marina* | Sea Medick | Dunes Calalunga Bay |
| *Onnobrychis aquidentata* | | Rocky pastures Monte Sant' Angelo |
| *Onobrychis caput-galli* | Cockscomb Sainfoin | Pulsano |
| *Onobrychis saxatilis* | Rock Sainfoin | Pulsano |
| *Pisum sativum ssp. elatior* | Cultivated Pea | Meadow, Calalunga Bay |
| *Psoralea bituminosa*(lvs only) | Pitch Trefoil | Pulsano |
| *Robinia pseudacacia* | False Acacia | En route |
| *Securigera (Coronilla) varia* | Crown Vetch | Rocky pastures Monte Sant' Angelo |
| *Spartium junceum* | Spanish Broom | En route |
| *Trifolium campestre* | Hop Trefoil | Pulsano |
| *Trifolium incarnatum* | Crimson Clover | Road verges |
| *Trifolium repens* | White Clover | Pulsano |
| *Trifolium stellatum* | Star Clover | Very common |
| *Trifolium tomentosum* | Woolly Trefoil | Passo d'Ingrano |
| *Vicia bithynica* | | Passo d'Ingrano |
| *Vicia cracca* | Tufted Vetch | Nr Peschici |
| *Vicia hirsuta* | Hairy Tare | Bosco Quarto |
| *Vicia lutea* | Yellow Vetch | Bosco Quarto |
| *Vicia melanops* | Black Vetch | Peony Stop |
| *Vicia narbonensis* | | Passo d'Ingrano |
| *Vicia peregrina* | Broad pod vetch | Passo d'Ingrano |
| *Vicia sativa* | Common Vetch | Bosco Quarto |
| *Vicia villosa* | Fodder Vetch | Rocky pastures Monte Sant' Angelo |
| ***Fagaceae*** | **Beech Family** | |
| *Quercus coccifera* | Spanish Oak | Monte Sacro |
| *Quercus cerris* | Turkey Oak | Bosco Quarto |
| *Quercus ilex* | Holm Oak | Monte Sacro |
| *Quercus pubescens* | Downy Oak | Monte Sacro |
| *Fagus sylvatica* | Beech | Foresta Umbra |
| ***Fumariaceae*** | **Fumitory Family** | |
| *Corydalis solida* | Bird-in-a-bush | Bosco Quarto |
| *Fumaria capreolata* | Tall Ramping Fumitory | Monte Sacro |
| *Fumaria officinalis* | Common Fumitory | Rocky pastures Monte Sant' Angelo |
| ***Geraniaceae*** | **Crane's-bill Family** | |
| *Erodium cicutarium* | Common Stork's-bill | Common |
| *Erodium malacoides* | Mallow-leaved Stork's-bill | Rocky pastures Monte Sant' Angelo |

| ***Scientific Name*** | **Common name** | **Location** |
|---|---|---|
| *Geranium columbinum* | Long-stalked Crane's-bill | Monte Sacro |
| *Geranium lucidum* | Shining Crane's-bill | Common |
| *Geranium molle* | Dove's-foot Crane's-bill | Common |
| *Geranium purpureum* | Little Robin | Pilgrims Path Monte Sant' Angelo |
| *Geranium robertianum* | Herb Robert | Walls Monte Sant' Angelo |
| *Geranium rotundifolium* | Round-leaved Crane's-bill | Rocky pastures Monte Sant' Angelo |
| *Geranium sanguineum* | Bloody Crane's-bill | Peony stop |
| ***Lamiaceae (Labiatae)*** | **Deadnettle Family** | |
| *Ajuga chamaepitys* | Ground Pine | Pulsano |
| *Ajuga genevensis* | Blue Bugle | Bosco Quarto |
| *Clinopodium acinos* | Basil-thyme | Rocky pastures Monte Sant' Angelo |
| *Lamium bifidum* | | Bosco Quarto |
| *Lamium garganicum* | Large Red Deadnettle | Bosco Quarto |
| *Lamium maculatum* | Spotted Deadnettle | Bosco Quarto |
| *Marrubium vulgare* | White Horehound | Bosco Quarto |
| *Origanum vulgare* | Oregano | Rocky pastures Monte Sant' Angelo |
| *Prasium majus* | Prasium | Track near Mattinata |
| *Rosmarinus officinalis* | Rosemary | Track near Mattinata |
| *Salvia argentea* | Silver Sage | Rocky pastures Monte Sant' Angelo |
| *Salvia verbenaca* | Wild Clary | Rocky pastures Monte Sant' Angelo |
| *Satureja hortensis* | Savory | Monte Sacro |
| *Sideritis romana* | Common Sideritis | Above Calalunga Bay |
| *Sideritis syriaca* | A Sideritis | Rocky pastures Monte Sant' Angelo |
| *Thymus capitatus* | A Thyme | Rocky pastures Monte Sant' Angelo |
| ***Linaceae*** | **Flax Family** | |
| *Linum bienne* | Pale Flax | Rocky pastures Monte Sant' Angelo |
| *Linum narbonense* | Beautiful Flax | Bosco Quarto open ground |
| *Linum perenne* | Perennial Flax | Rocky pastures Monte Sant' Angelo |
| ***Malvaceae*** | **Mallow Family** | |
| *Lavatera arborea* | Tree Mallow | Nr Peschici |
| *Malva neglecta* | Dwarf Mallow | Bosco Quarto |
| *Malva sylvestris* | Common Mallow | Roadside near Manfredonia |
| ***Moraceae*** | **Mulberry Family** | |
| *Ficus carica* | Fig | En route |
| ***Oleaceae*** | **Olive Family** | |
| *Fraxinus ornus* | Flowering Ash | Bosco di Spinapulci |
| *Ligustrum vulgare* | Privet | Bosco Quarto |
| *Olea europaea* | Olive | Rocky pastures Monte Sant' Angelo |

| *Scientific Name* | **Common name** | **Location** |
|---|---|---|
| ***Orobanchaceae*** | **Broomrape Family** | |
| *Orobanche minor* | Common Broomrape | Monte Sacro |
| *Orobanche ramosa* | Branched Broomrape | Above Calalunga |
| ***Paeoniaceae*** | **Peony Family** | |
| *Paeonia mascula* | A Peony | Peony stop, Bosco Quarto |
| ***Papaveraceae*** | **Poppy Family** | |
| *Papaver apulum* | | Pulsano |
| *Papaver rhoeas* | Common Poppy | Roadsides near Manfredonia |
| ***Plantaginaceae*** | **Plantain Family** | |
| *Plantago lanceolata* | Ribwort Plantain | Monte Sant' Angelo |
| *Plantago maritima* | Sea Plantain | Bosco Quarto |
| ***Polygalaceae*** | **Milkwort Faqmily** | |
| *Polygala vulgaris* | Common Milkwort | Monte Sacro |
| ***Primulaceae*** | **Primrose Family** | |
| *Anagallis arvensis* | Scarlet Pimpernel | Rocky pastures Monte Sant' Angelo |
| *Cyclamen hederifolium* | Ivy-leaved Sowbread | Bosco Quarto (lvs) |
| *Cyclamen repandum* | Spring Cyclamen | Bosco di Spinapulci |
| ***Ranunculaceae*** | **Buttercup Family** | |
| *Anemone apennina* | Blue Anemone | Bosco Quarto |
| *Anemone hortensis* | | Rocky pastures Monte Sant' Angelo |
| *Clematis ficaria* | a Clematis | Rocky pastures Monte Sant' Angelo |
| *Ranunculus acris* | Meadow Buttercup | Bosco Quarto |
| *Ranunculus aquatilis* | Common Water-crowfoot | Bosco Quarto |
| *Ranunculus bulbosus* | Bulbous Buttercup | Bosco Quarto |
| *Ranunculus ficaria* | Lesser Celandine | Pilgrim's Path Monte Sant' Angelo |
| *Ranunculus millefoliatus* | | Rocky pastures Monte Sant' Angelo |
| *Ranunculus muricatus* | Rough-fruited Buttercup | Fly tip stop |
| *Ranunculus velutinus* | | Bosco Quarto |
| ***Resedaceae*** | **Mignonette Family** | |
| *Reseda alba* | White Mignonette | Rocky pastures Monte Sant' Angelo |
| *Reseda lutea* | Wild Mignonette | Rocky pastures Monte Sant' Angelo |
| *Reseda phyteuma* | Corn Mignonette | Salines |
| ***Rhamnaceae*** | **Buckthorn Family** | |
| *Palliurus spina-christi* | Christ’s Thorn | Bosco di Spinapulci |
| *Rhamnus alaternus* | Mediterranean Buckthorn | Bosco di Spinapulci |

| *Scientific Name* | Common name | Location |
|---|---|---|
| ***Rosaceae*** | **Rose Family** | |
| *Aremonia agrimonoides* | Bastard Agrimony | Bosco Quarto |
| *Crataegus monogyna* | Hawthorn | Rocky pastures |
| *Fragaria vesca* | Wild Strawberry | Bosco Quarto |
| *Geum urbanum* | Wood Avens | Bosco Quarto |
| *Malus sylvestris* | Crab Apple | Bosco Quarto open ground |
| *Potentilla hirta* | Hairy Cinquefoil | Rocky pastures Monte Sant' Angelo |
| *Poterium verrucosum* | Mediterranean Salad Burnet | Rocky pastures Monte Sant' Angelo |
| *Prunus dulcis* | Almond | Rocky pastures Monte Sant' Angelo |
| *Prunus spinosa* | Blackthorn | Bosco Quarto |
| *Pyrus amygdaliformis* | Almond-leaved Pear | Rocky pastures Monte Sant' Angelo |
| *Rosa sp.* | A Rose | Bosco Quarto |
| *Rubus sanctus* | Bramble | Bosco Quarto |
| *Sorbus aucuparia* | Rowan | Roadside Monte Sant' Angelo |
| *Sorbus torminalis* | Wild Service Tree | Bosco Quarto |
| ***Rubiaceae*** | **Bedstraw Family** | |
| *Cruciata laevipes* | Crosswort | Peony stop |
| *Galium aparine* | Cleavers | Rocky pastures Monte Sant' Angelo |
| *Galium verum* | Lady's Bedstraw | Rocky pastures Monte Sant' Angelo |
| *Rubia peregrina* | Wild Madder | Monte Sacro |
| *Sheradia arvensis* | Field Madder | Rocky pastures Monte Sant' Angelo |
| ***Rutaceae*** | **Rue Family** | |
| *Ruta chalepensis* | Fringed Rue | Pulsano |
| ***Saxifragaceae*** | **Saxifrage Family** | |
| *Saxifraga bulbifera* | Bulbous Saxifrage | Rocky pastures Monte Sant' Angelo |
| *Saxifraga granulata* | Meadow Saxifrage | Bosco Quarto |
| *Saxifraga tridactylites* | Rue-leaved Saxifrage | Rocky pastures Monte Sant' Angelo |
| ***Scrophulariaceae*** | **Figwort Family** | |
| *Antirrhinum siculum* | Sicilian Snapdragon | Peschici |
| *Cymbalaria muralis* | Ivy-leaved Toadflax | Rocky pastures Monte Sant' Angelo |
| *Euphrasia agg.* | An Eyebright | Bosco Quarto open ground |
| *Parentucella latifolia* | Southern Red Bartsia | Rocky pastures Monte Sant' Angelo |
| *Parentucella viscosa* | Yellow Bartsia (white) | Meadow at Calalunga Bay |
| *Scrophularia canina* | Dog (French) Figwort | Bosco Quarto |
| *Scrophularia peregrina* | Italian (Nettle-leaved) Figwort | Bosco di Spinapulci |
| *Verbascum thapsus* | Aaron's Rod | En route |
| *Verbascum undulatum* | | Peschici |
| *Veronica cymbalaria* | Cymbalaria-leaved Speedwell | Rocky pastures Monte Sant' Angelo |
| *Veronica hederifolia* | Ivy-leaved Speedwell | Bosco Quarto |
| *Veronica serpyllifolia* | Thyme-leaved Speedwell | Bosco Quarto |

| *Scientific Name* | **Common name** | **Location** |
|---|---|---|
| ***Solanaceae*** | **Nightshade Family** | |
| *Hyoscyamus alba* | White Henbane | Pulsano |
| ***Thymelaeaceae*** | **Daphne Family** | |
| *Daphne laureola* | Spurge Laurel | Bosco Quarto |
| ***Ulmaceae*** | **Elm Family** | |
| *Ulmus sp.* | An Elm | Monte Sant' Angelo |
| ***Urticaceae*** | **Nettle Family** | |
| *Parientaria judaica* | Pellitory of the Wall | Pulsano |
| *Urtica dioica* | Nettle | Monte Sant' Angelo |
| ***Valerianaceae*** | **Valerian Family** | |
| *Centranthus ruber* | Red Valerian | En route |
| *Valeriana tuberosa* | | Rocky pastures Monte Sant' Angelo |
| *Valerianella sp.* | A Cornsalad | Rocky pastures Monte Sant' Angelo |
| ***Violaceae*** | **Violet Family** | |
| *Viola arvensis* | Field Pansy | Bosco Quarto |
| *Viola heterophylla ssp. graeca* | | Bosco Quarto |
| *Viola riviniana* | Common Dog Violet | Bosco Quarto |
| ***Vitaceaea*** | **Grape-vine Family** | |
| *Vitis vinifera* | Grape | En route |
| ***MONOCOTYLEDONS*** | | |
| ***Liliidae (Monocotyledons)*** | | |
| ***Araceae*** | **Arum Family** | |
| *Arum italicum* | Large Cuckoo Pint | Bosco di Spinapulci |
| *Arum maculatum* | Cuckoo Pint | Monte Sacro |
| ***Cyperaceae*** | **Sedge Family** | |
| *Luzula campestris* | Field Wood-rush | Monte Sacro |
| *Luzula forsteri* | Southern Wood-rush | Bosco Quarto |
| ***Dioscoreaceae*** | **Black Bryony Family** | |
| *Tamus communis* | Black Bryony | Bosco Quarto |
| ***Iridaceae*** | **Iris Family** | |
| *Crocus sp.*(lvs) | A Crocus | Monte Sacro |

| ***Scientific Name*** | **Common name** | **Location** |
|---|---|---|
| *Gladiolus italicus* | Field Gladiolus | Field at Calalunga |
| *Hermodactylus tuberosus* | Widow or Snake's-head Iris | Bosco Quarto |
| *Iris lutescens (endemic)* | | Bosco Quarto open ground |
| *Iris pseudopumilla (endemic)* | | Rocky pastures Monre Sant' Angelo |
| ***Liliaceae*** | **Lily Family** | |
| *Allium roseum* | Rose Garlic | Mullein stop |
| *Allium subhirsutum* | Hairy Garlic | Pulsano |
| *Allium subvillosum* | | Calalunga |
| *Allium ursinum* | Ramsons | Foresta Umbra |
| *Asparagus acutifolius* | Spiny Asparagus | Peony stop |
| *Asphodeline lutea* | Yellow Asphodel | Pulsano |
| *Asphodelus aestivus* | Common Asphodel | Pulsano |
| *Asphodelus fistulosus* | Hollow-leaved Asphodel | Pulsano |
| *Bellevalia dubia* | Bellevalia | Valle Carbonara |
| *Muscari comosum* | Tassel Hyacinth | Peony stop |
| *Muscari neglecta* | Dark Grape Hyacinth | Rocky pastures Monte Sant' Angelo |
| *Narcissus poeticus* | Pheasant's-eye Daffodil | Bosco Quarto |
| *Ornithogalum montanum* | A Star of Bethlehem | Rocky pastures Monte Sant' Angelo |
| *Ornithogalum umbellatum* | Common Star of Bethlehem | Rocky pastures Monte Sant' Angelo |
| *Polygonatum multiflorum* | Solomon's Seal | Bosco Quarto |
| *Ruscus aculeatus* | Butcher's Broom | Bosco Quarto |
| *Tulipa sylvestris* | Wild Tulip | Valle Carbonara |
| *Urginea maritima (leaves)* | Sea Squill | Bosco di Spinapulci |
| ***Orchidaceae*** | **Orchid Family** | |
| *Anacamptis pyramidalis* | Pyramidal Orchid | Roadside stop nr Sannicandro Garganico |
| *Cephalanthera longifolia* | Sword-leaved Helleborine | Monte Sacro |
| *Dactylorhiza fuchsii (leaves)* | Common Spotted-orchid | Bosco Quarto |
| *Dactylorhiza romana* | Roman Orchid | Bosco Quarto |
| *Gymnodenia conopsea* | Fragrant Orchid | Bosco di Spinapulci |
| *Himantoglossum robertianum (Barlia robertiana)* | Giant Orchid | Rocky pastures Monte Sant' Angelo |
| *Limodorum arbortivum* | Violet Limodore (V. Bird's nest) | Bosco Quarto |
| *Ophrys apulica (endemic)* | Apulian Ophrys | Coppa Rotonda |
| *Ophrys bertoloniformis (endemic)* | | Bosco Quarto Iris Meadow |
| *Ophrys bertolonii* | Bertoloni's Ophrys | Rocky pastures Monte Sant' Angelo |
| *Ophrys biscutella* | Spectacled Ophrys | Bosco Quarto pasture |
| *Ophrys bombyliflora* | Bumblebee Ophrys | Pulsano Monastery |
| *Ophrys cornuta* | | Above Calalunga Bay |
| *Ophrys fuciflora* | Late Spider Orchid | Day 7 near Mullein stop |
| *Ophrys fusca* | Dull Ophrys | Coppa Rotonda |
| *Ophrys passionis var.garganica (O. garganica)* | Gargano Ophrys | Rocky pastures Monte Sant' Angelo |
| *Ophrys incubacea* | Dark Ophrys | Rocky pastures Monte Sant' Angelo |

| ***Scientific Name*** | **Common name** | **Location** |
|---|---|---|
| *Ophrys lutea* | Yellow Ophrys | Rocky pastures Monte Sant' Angelo |
| *Ophrys melena/numida* | A yellow Ophrys | Coppo Rotonda |
| *Ophrys promontorii (endemic)* | Promontory Ophrys | Rocky pastures Monte Sant' Angelo |
| *Ophrys sicula* | A yellow Ophrys | Rocky pastures Monte Sant' Angelo |
| *Ophrys tenthredinifera* | Sawfly Ophrys | Rocky pastures Monte Sant' Angelo |
| *Orchis anthropophorum* | Man Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis intacta (Neotinea maculata)* | Dense-flowered Orchid | Monte Sacro |
| *Orchis italica* | Naked Man Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis lactea* | Milky Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis morio* | Green-winged Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis picta (O. morio var. picta)* | | Bosco Quarto pasture |
| *Orchis papilionacea* | Pink Butterfly Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis pauciflora* | Sparse Flowered Orchid | Monte Sacro |
| *Orchis provincialis* | Provence Orchid | Bosco di Spinapulci |
| *Orchis purpurea* | Lady Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis quadripunctata* | Four-spotted Orchid | Rocky pastures Monte Sant' Angelo |
| *Orchis ustulata* | Burnt Tip Orchid | Rocky pastures Monte Sant' Angelo |
| *Serapias cordigera* | Heart-flowered Tongue Orchid | Bosco di Spinapulci |
| *Serapias lingua* | Tongue Orchid | Coppo Rotonda |
| *Serapias parviflora* | Small-flowered Tongue Orchid | Coppo Rotonda |
| *Serapias vomeracea* | Plough-share Tongue Orchid | Fly Tip stop |
| ***Hybrids (a selection)*** | | |
| *Ophrys incubacea x Ophrys garganica* | | Rocky pastures Monte Sant' Angelo |
| *Ophrys incubacea x Ophrys bertolonii* | | Bosco Quarto pasture |
| *Orchis anthropophorum x Orchis italica (Orchis x bivonae)* | | Rocky pastures Monte Sant' Angelo |
| *Orchis morio x Orchis papilionacea* | | Rocky pastures Monte Sant' Angelo |
| ***Poacaea*** | **Grass Family** | |
| *Aegilops geniculata* | | Passo d'Ingrano |
| *Anisantha sterilis* | Barren Brome | |
| *Arundo donax* | Giant Reed | Salines |
| *Avena sp.* | A Wild Oat | Monte Sacro |
| *Briza maxima* | Large Quaking Grass | Rocky pastures Monte Sant' Angelo |
| *Briza media* | Quaking grass | Dolina |
| *Catapodium rigidum* | Fern Grass | Monte Sacro |
| *Festuca vivipera* | Viviparous Fescue | Rocky pastures Monte Sant' Angelo |
| *Hordeum sp.* | A Barley | Passo d'Ingrano |
| *Lagurus ovatus* | Hare's-foot Grass | Rocky pastures Monte Sant' Angelo |
| *Melica uniflora* | Wood Melick | Bosco Quarto |
| *Phragmites australis* | Common Reed | Salines |
| *Stipa sp.* | A Feather Grass | Roadside nr Monte Sant' Angelo |

## Birds (H = heard only)

It should be noted that the main focus of this trip is the flora. However, this year we were pleased to welcome Andy Smith as an excellent ornithologist and naturalist as second leader, so the bird list is more complete than usual.

| | | | April | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Common name** | **Scientific name** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** |
| 1 | Little Egret | *Egretta garzetta* | | | | 50 | | | | |
| 2 | Purple Heron | *Ardea purpurea* | | | | 1 | | | | |
| 3 | Spoonbill | *Platalea leucorodia* | | | | 1 | | | | |
| 4 | Greater Flamingo | *Phoenicopterus ruber* | | | | 30 | | | | |
| 5 | Shelduck | *Tadorna tadorna* | | | | 1 | | | | |
| 6 | Marsh Harrier | *Circus aeruginosus* | 1 | | | 2 | | 15 | | **8** |
| 7 | Buzzard | *Buteo buteo* | | 3 | 1 | | 1 | 3 | 2 | 2 |
| 8 | Eurasian Sparrowhawk | *Accipiter nisus* | | 1 | | | | 2 | | 1 |
| 9 | Kestrel | *Falco tinnunculus* | | 2 | 2 | 6 | 2 | 3 | 1 | 4 |
| 10 | Eurasian Hobby | *Falco subbuteo* | | | 2 | | 1 | | | |
| 11 | Peregrine Falcon | *Falco peregrinus* | | | | | | | | 1 |
| 12 | Pied Avocet | *Recurvirostra avosetta* | | | | 40 | | | | |
| 13 | Black-winged Stilt | *Himantopus himantopus* | | | | 10 | | | | |
| 14 | Oystercatcher | *Haematopus ostralegus* | | | | 1 | | | | |
| 15 | Kentish Plover | *Charadrius alexandrinus* | | | | 5 | | | | |
| 16 | Dunlin | *Calidris alpina* | | | | 5 | | | | |
| 17 | Little Stint | *Calidris minuta* | | | | 3 | | | | |
| 18 | Greenshank | *Tringa nebularia* | | | | 2 | | | | |
| 19 | Common Sandpiper | *Actitis hypoleuca* | | | | 1 | | 1 | 1 | 1 |
| 20 | Slender-billed Gull | *Larus genei* | | | | 75 | | | | |
| 21 | Mediterranean Gull | *Larus melanocephalus* | | | | 10 | | | | |
| 22 | Black-headed Gull | *Larus ridibundus* | | | | 10 | | | | |
| 23 | Yellow-legged Gull | *Larus cachinnans* | 10 | 1 | 4 | 35 | | 25 | 100's | 100's |
| 24 | Lesser Black-backed Gull | *Larus fuscus* | | | | | | | 1 | |
| 25 | Sandwich Tern | *Sterna sandvicensis* | | | | 30 | | | | |
| 26 | Little Tern | *Sterna albifrons* | | | | 12 | | | | |
| 27 | Common Wood Pigeon | *Columba palumbus* | | | 3 | | 2 | 6 | 5 | |
| 28 | Eurasian Collared Dove | *Streptopelia decaocto* | 10 | | | 6 | 3 | 7 | 5 | 10 |
| 29 | European Turtle Dove | *Streptopelia turtur* | | | 2 | | | | | |
| 30 | Feral Pigeon | *Columba livia* | 10 | | | 10 | | 6 | | |
| 31 | Common Cuckoo | *Cuculus canorus* | | | 2 | | 3 | 1 | 1 | |
| 32 | Tawny Owl | *Strix aluco* | | | | | | H | H | |
| 33 | Little Owl | *Athene noctua* | 1 | | | | | | | |
| 34 | Common Swift | *Apus apus* | 50 | 40 | 30 | 20 | 100 | 100 | 100 | 50 |
| 35 | Alpine Swift | *Apus melba* | | 1 | | 1 | | 1 | 10 | 10 |
| 36 | Eurasian Hoopoe | *Upupa epops* | | | 1 | 1 | | 3 | | 1 |
| 37 | Green Woodpecker | *Picus viridis* | | | H | | H | | H | |
| 38 | Great Spotted Woodpecker | *Dendrocopos major* | | | H | | | | | |
| 39 | Common Skylark | *Alauda arvensis* | | | 1 | | | | | 1 |
| 40 | Crested Lark | *Galerida cristata* | 5 | 3 | | | 2 | 3 | | 8 |
| 41 | Woodlark | *Lullula arborea* | | 3 | 1 | | 1 | 3 | | |
| 42 | Barn Swallow | *Hirundo rustica* | | 10 | 15 | 20 | 10 | 30 | 25 | 50 |

| | Common name | Scientific name | April | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 43 | Red-rumped Swallow | *Hiruundo daurica* | | | | | | | | 1 |
| 44 | Common House Martin | *Delichon urbica* | | 2 | | 5 | 3 | | 25 | 20 |
| 45 | Tree Pipit | *Anthus trivialis* | | | 8 | | 5 | | | 15 |
| 46 | White Wagtail | *Motacilla alba* | | 1 | | 2 | 1 | | 1 | 4 |
| 47 | Yellow Wagtail (blue-headed race) | *Motacilla flava flava* | | | 2 | 1 | | | | 1 |
| 48 | Yellow Wagtail (ashy-headed race) | *Motacilla flava cinereocapilla* | | | 1 | | | | | |
| 49 | Winter Wren | *Troglodytes troglodytes* | | 3 | 5 | | 1 | 4 | | |
| 50 | Robin | *Erithacus rubecula* | | 2 | 4 | | 1 | | | |
| 51 | Nightingale | *Luscinia megarhynchos* | | | 5 | | 1 | 3 | 2 | 1 |
| 52 | Northern Wheatear | *Oenanthe oenanthe* | | 6 | 1 | | 1 | 2 | | 1 |
| 53 | Black-eared Wheatear | *Oenanthe hispanica* | | | 1 | | 7 | 1 | | |
| 54 | Common Redstart | *Phoenicurus phoenicurus* | | | | | | | 1 | |
| 55 | Whinchat | *Saxicola rubetra* | | | | | 1 | 7 | 4 | 4 |
| 56 | Common Stonechat | *Saxicola torquata* | | 1 | 4 | 1 | 3 | 4 | | |
| 57 | Blue Rock Thrush | *Monticola solitarius* | | 1 | 1 | | 2 | 1 | | |
| 58 | Song Thrush | *Turdus philomelos* | | | H | | | | | |
| 59 | Mistle Thrush | *Turdus viscivorus* | | | | | | | | 1 |
| 60 | Common Blackbird | *Turdus merula* | | | 4 | | 1 | 1 | | |
| 61 | Blackcap | *Sylvia atricapilla* | | 1 | 15 | | 2 | 4 | 3 | 2 |
| 62 | Sardinian Warbler | *Sylvia melanocephala* | | 1 | | 3 | 5 | 5 | 5 | 4 |
| 63 | Common Whitethroat | *Sylvia communis* | | | 1 | | 10 | 1 | 1 | 1 |
| 64 | Subalpine Warbler | *Sylvia cantillans* | | 8 | 2 | 1 | 8 | 10 | 5 | 5 |
| 65 | Zitting Cisticola | *Cisticola juncidis* | 1 | | | 4 | | 1 | | 1 |
| 66 | Cetti's Warbler | *Cettia cetti* | | | | | | 2H | 1H | 2H |
| 67 | Great Reed Warbler | *Acrocephalus arundinaceus* | | | | | | | | 2 |
| 68 | Wood Warbler | *Phylloscopus sibilatrix* | | | | | 2 | | | 1 |
| 69 | Bonelli's Warbler | *Phylloscopus bonelli* | | | 1H | | | | | |
| 70 | Chiffchaff | *Phylloscopus collybita* | | | 3H | | | | | |
| 71 | Firecrest | *Regulus ignicapillus* | | | 6 | | | | | |
| 72 | Spotted Flycatcher | *Muscicapa striata* | | | | | | | 1 | 1 |
| 73 | European Pied Flycatcher | *Ficedula hypoleuca* | | | 1 | | 3 | | 1 | |
| 74 | Great Tit | *Parus major* | 1 | 4 | 3 | 2 | 6 | 10 | 2 | 2 |
| 75 | Blue Tit | *Cyanistes caeruleus* | | 2 | 5 | | 5 | 4 | | |
| 76 | Long-tailed Tit | *Aegithalos caudatus* | | | H | | | | | |
| 77 | Eurasian Nuthatch | *Sitta europaea* | | | 2 | | | | | |
| 78 | Short-toed Treecreeper | *Certhis brachydactyla* | | | 2 | | | | | |
| 79 | Common Treecreeper | *Certhia familiaris* | | | H | | | | | |
| 80 | Common Magpie | *Pica pica* | 10 | 8 | 5 | 6 | 8 | 10 | 5 | 12 |
| 81 | Eurasian Jay | *Garrulus glandarius* | 1 | 1 | 2 | | | 2 | 2 | 1 |
| 82 | Western Jackdaw | *Corvus monedula* | 6 | 12 | 10 | 5 | 12 | 20 | 30 | 20 |
| 83 | Hooded Crow | *Corvus corone* | | 5 | 10 | 20 | 20 | 15 | 10 | 10 |
| 84 | Common Raven | *Corvus corax* | | 3 | 1 | | | | | |
| 85 | Common Starling | *Sturnus vulgaris* | 5 | | | | | | | 5 |
| 86 | Golden Oriole | *Oriolus oriolus* | | | | | | | 3 | |
| 87 | Italian Sparrow | *Passer x italicus* | 20 | 40 | 50 | 25 | 120 | 200 | 35 | 50 |
| 88 | Spanish Sparrow | *Passer hispaniolensis* | | | | 20 | | | | 12 |
| 89 | Eurasian Tree Sparrow | *Passer montanus* | | | | 6 | | | 3 | 25 |

| | Common name | Scientific name | April | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 90 | Rock Sparrow | *Petronia petronia* | | 1 | | | 2 | | | |
| 91 | Common Chaffinch | *Fringilla coelobs* | | 3 | 10 | 2 | 4 | 2 | 2 | |
| 92 | Common Linnet | *Carduelis cannabina* | | 5 | 3 | 2 | 5 | | | 1 |
| 93 | European Goldfinch | *Carduelis carduelis* | | 10 | 5 | 5 | 5 | 6 | 2 | 8 |
| 94 | European Greenfinch | *Carduelis chloris* | | | | | | | 1 | 1 |
| 95 | European Serin | *Serinus serinus* | 4 | 8 | 5 | 4 | 15 | 15 | 10 | 10 |
| 96 | Cirl Bunting | *Emberiza cirlus* | | 3 | 4 | 2 | 10 | 10 | 2 | 1 |
| 97 | Corn Bunting | *Miliaria calandra* | | 3 | 25 | 5 | 3 | 5 | | 20 |

## Butterflies

| | Common name | Scientific name | Seen on trip |
|---|---|---|---|
| | ***Hesperiidae*** | | |
| 1 | Mallow Skipper | *Carcharodus alceae* | X |
| | | ***Papilionidae*** | |
| 2 | Swallowtail | *Papilio machaon* | X |
| 3 | Scarce Swallowtail | *Iphicides podalirius* | X |
| 4 | Southern Festoon | *Zerynthia polyxena* | X |
| | ***Pieridae*** | | |
| 5 | Clouded Yellow | *Colias crocea* | X |
| 6 | Large White | *Pieris brassicae* | X |
| 7 | Orange Tip | *Anthocharis cardamines* | X |
| 8 | Eastern Dappled White | *Euchloe ausonia* | X |
| 9 | Green Hairstreak | *Callophrys rubi* | X |
| 10 | Small Copper | *Lycaena phlaeas* | X |
| 11 | Brown Argus | *Aricia agestis* | X |
| 12 | Little Blue | *Cupido minimus* | X |
| 13 | Green-underside Blue | *Glaucopsyche alexis* | X |
| 14 | Common Blue | *Polyommatus icarus* | X |
| 15 | Baton Blue | *Pseudophilotes baton* | X |
| | ***Nymphalidae*** | | |
| 16 | Painted Lady | *Vanessa cardui* | X |
| 17 | Red Admiral | *Vanessa atalanta* | X |
| 18 | Large Tortoiseshell | *Nymphalis polychloros* | X |
| 19 | Wall Brown | *Lasiommata megera* | X |
| 20 | Small Heath | *Coenonympha pamphilus* | X |
| | | | |
| | **MOTHS:** | | |
| 1 | Nine Spot Moth | *Syntomis phegea* | X |
| 2 | Brown-tail moth caterpillars | *Euproctis chrysorrhoea* | X |

## Other Invertebrates (not comprehensive list)

| | |
|---|---|
| Field Cricket | *Gryllus campestris* |
| Churchyard Beetle | *Blaps mucronata* |
| Yellow-haired Barbary Bug | *Tropinota squalida* |
| Knotgrass Leaf Beetle | *Chrysolina polita* |
| Termite | *Reticulitermes lucifagus* |

| | |
|---|---|
| Scorpion | *Buthus occitanus* |
| Scorpion | *Euscorpius flavicaudis* |
| Giant centipede | *Scolopendra cingulatus* |
| Roman snail | *Helix pomatia* |

## Reptiles and Amphibians

| | |
|---|---|
| Green Lizard | *Lacerta viridis* |
| Italian Wall Lizard | *Podarcis sicula* |
| Italian Three-toed Skink | *Chalcides chalcides* |
| Western Whip Snake | *Coluber viridiflavus* |
| Edible Frog | *Rana esculenta* |

## Mammals

| | |
|---|---|
| Red Fox | *Vulpes vulpes* |

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