

The Gargano

Italy's Secret Garden

A Greentours Tour Report

19th to 28th April 2007

Led by Paul Cardy

Daily Reports and Systematic Lists by Paul Cardy

Day 1 Thursday 19th April Arrival and Transfer to Peschici

Having arrived in Bari the previous evening from Sardinia, I did all the picnic shopping in the morning and then met Wallace and March at the airport. The remainder of the team arrived in the afternoon and we were soon on our way north towards the Gargano Peninsula. Initially the journey took us across the extensive agricultural Tavoliere Plain, then along the north coast of the Gargano peninsula, with flowery roadside verges, and the weather was fine. A short stop yielded *Orchis italica*, Man Orchid, *Pisum sativum* and many common plants and a female Montagu's Harrier hunted over the fields near Lesina.

On arrival at our hotel in Peschici we settled in and reconvened for a welcome dinner and looked forward to the coming tour. Bee-eaters called overhead as I unloaded the car.

Day 2 Friday 20th April Peschici and Vieste

The weather was fine this morning, with clear blue skies, and remained so for the whole day, becoming very hot later on. The sea was very calm. We didn't have far to travel on our first morning, and first of all we headed a short distance west along the coast, driving down to a beach near Peschici. The beautiful shrub *Anthyllis barba-jovis*, together with tamarisk, formed a belt behind the beach, whilst on the shore was a typical littoral community of *Cakile maritima*, *Medicago marina*, *Medicago littoralis*, and *Calystegia soldanella*. Initially our progress was slow, as we were seeing everything for the first time. Even the weeds were interesting, with abundant *Silybum marianum*, and *Erodium malacoides* among others. The arable fields were full of Grey-headed Yellow Wagtails, with some on the beach too, and we had superb views of this most attractive bird. A female Wheater sat on the fence and Tawny Pipit was a good record. The first butterflies were the rather prosaic Small and Large Whites, Red Admiral and Painted Ladies.

It was soon apparent that the season was somewhat advanced, even more so than the previous year. This was immediately obvious by the many pink blooms of *Cistus creticus* on the roadsides, a species usually not in flower at all at this time. The many *Orchis papilionacea* here were mostly already over, as was *Orchis italica*, but a few *Ophrys tenthredinifera* remained in

good condition. After much searching we found the hoped for *Ophrys cornuta*, which was duly photographed. Indeed some five spikes were found in fine condition. This is the only site we know of for this species in the Gargano and we did not see it again. The very attractive *Ophrys apulica* was also here in very good condition. *Serapias parviflora*, *Serapias vomeracea* and *Serapias lingua* were all in bloom.

The habitat here is much disturbed and has been recently cleared and burnt, but the surviving trees and bushes shelter such species as *Prasium majus* and *Cyclamen repandum*, the latter however was all over this year. Among the many other plants here were *Coronilla emerus*, *Buglossoides purpureo-caerulea*, *Tetragonolobus purpureus*, *Trifolium resupinatum*, and *Acinos alpinus*. The lovely *Crepis rubra* was in flower, with red flowered *Anthyllis vulneraria*; *Fumaria capreolata*; *Silene italica*; *Cistus monspeliensis*; *Dorycnium hirsutum*; *Allium subhirsutum* and *Arum italicum* adding to the great floral variety of our first stop. Yellow-legged Gulls were numerous, and Sardinian Warblers called from the mastic scrub, and we occasionally glimpsed them. Among other butterflies on the wing were Small Copper, Green Hairstreak, Mallow Skipper and Wall Brown. Several Italian Wall Lizards were active in the sunshine. Doreen made the excellent find of the large black and white Buprestid beetle *Capnodis cariosa*, a species associated with mastic.

We drove a very short distance inland to an olive grove and a hidden abandoned house. Here we found a few impressive Lady Orchids. There was much *Crepis rubra* here too and several plants such as *Bunias erucago*, Branched Broomrape and Love-in-a-mist were added to the list. Whilst the group explored I set out the extensive picnic. We ate amid the flowers in this tranquil spot under the shade of the olives.

Early afternoon saw us stopping at an old defensive tower looking out to sea. *Matthiola incana* was in flower on the cliffs and the rosettes of the endemic *Campanula garganica* that grow on the walls of the tower were in superb flower this year due to the early season. The White Henbane was also in bloom. Blue Rock Thrush sat atop the tower and Cirl Bunting was seen well. After a brief stop at the hotel to put the picnic supplies in the fridge, we made a somewhat longer drive east to near Vieste allowing time for a snooze. At the first stop we saw many Pyramidal Orchids in fine flower this year, another indication of a rather early season. Indeed these were not the only ones seen, as is usually the case, and we saw a few other sites during the tour. *Ophrys incubacea* was also here, as was the foul smelling *Ruta chalepensis*. Tassel Hyacinths were common, and there was a lot of Rosy Garlic. Among the many other flowers were *Onobrychis aequidentata*, *Alkanna tinctoria* and *Orobanche lavandulacea*. Little Blue and Adonis Blue were on the wing and a Scarce Swallowtail sat atop a small pine allowing prolonged views. Swallowtail was here too.

At the next stop was another good selection of orchids, including *Ophrys lutea*, *Ophrys tenthredinifera* and some really superb *Ophrys apulica*. Among the other flowers were *Parentucellia latifolia*, *Tordylium apulum* and *Scorzonera hirsuta*. Red-underwing Skipper and Grizzled Skipper were both noted. This was the only known site for us for *Orchis fragrans*, but we had not seen it here for some years. I was delighted when we found the first one in fine flower, but this was followed by an unprecedented fifteen or so! Fortunately the two very cute and very young bleating lambs here hadn't eaten all the flowers. The mantid *Empusa pennata* provided some variety and sat on my hand for the photographers. To round things off a flock

of Bee-eaters appeared flying and calling very close overhead. We took a minor road back to Peschici, arriving back at the hotel with time for a rest and to catch up with notes before enjoying dinner in the restaurant.

Day 3 Saturday 21st April Passo Ingarano, Dolina Pozzatina
and Spina Pulci

We drove through thick fog this morning, as we headed to the Passo Ingarano, but this soon cleared to leave another fine hot day. We spent the whole morning exploring the hillsides here. Among the orchids we did see were widespread species such as *Ophrys tenthredinifera*, *Ophrys sicula* and *Ophrys bombyliflora* and also the more localised specialities *Ophrys archipelagi*, *Ophrys incubacea*, and *Ophrys parvimaculata* (several good specimens). Both *Orchis italica* and *Orchis papilionacea* were here, and several Man Orchids were found. *Serapias lingua* was numerous. There was a lone Burnt-tip Orchid, and *Orchis tridentata* was a good find.

The yellowish mounds of *Euphorbia spinosa* were very attractive, the lovely purple flowered *Verbascum phoeniceum* was particularly fine, and *Pisum sativum* and *Vicia benghalensis* were in good bloom. *Paliurus spina-christi* provided a rather prickly scrub covered hillside. The *Iris lutescens* were more or less over this year although we saw a few still in flower, and there were some fine cyclamen higher up the slope. Among the other species were *Lathyrus cicera*, *Lupinus varius*, *Helianthemum salicifolium*, *Alyssoides sinuata*, *Linaria pelisseriana* and *Sedum caespitosum*. Subalpine Warblers were active in the scrub, and performed display flights, whilst many Swifts sped overhead, and Corn Buntings called from prominent perches. The song of the Nightingale was a regular feature of the site. Cleopatra and Brimstone were both on the wing. Green Lizards were active in the sunshine and I surprised a large Western Whip Snake that soon disappeared into the undergrowth.

It was time to leave this productive site, and we drove to the impressive Dolina Pozzatina, a bowl shaped depression formed by the collapse of the limestone roof, the largest of its kind in the Gargano. It was time for our picnic but I was dismayed to see that the whole area had been fenced off very efficiently. Fortunately nearby was a very pleasant spot with some shade, and there also a fine show of Pink Butterfly and Green-winged Orchids. Hoopoe and Quail called whilst we ate and Subalpine Warblers performed display flights. Three Glanville Fritillaries were the first of several we would see during the week. Nearby was a large meadow coloured pink by the masses of *Orchis morio* and *Orchis papilionacea*. There were also some fine and obvious examples of hybrids between the two. On the road was a dead Aesculapian Snake.

We headed up a minor road to the beautiful Oak-Hornbeam woods of the Bosco di Spina Pulci, where the trees had just burst into leaf and were a startlingly fresh green. Feral horses and a flock of noisy goats munched on the vegetation but there were still many plants to see. The forest floor was covered with *Anemone apennina*, *Cyclamen repandum* and *Allium pendulinum*. We strolled through the lovely woodland and found many other plants including *Viola graeca*, Wood Spurge, *Cardamine graeca*, a few *Narcissus poeticus* still in flower, and *Doronicum orientale*. A highlight was several fine specimens of *Ophrys biscutella*, but remarkably there were only two *Dactylorhiza romana* here this year. The diminutive *Asterolinon linum-stellatum* was a pleasing

discovery and there were many other small gems such as *Aphanes inexpectata*. *Ornithogalum montanum*, *Aspodeline lutea*, and *Muscari commutatum* were here too. Eastern Fescue was flying, and we saw its foodplant *Aristolochia longa*. Nuthatch and Green Woodpecker called and later both Green and Great Spotted Woodpeckers were seen. Our last stop, at a limestone outcrop, yielded the pretty *Anchusa cretica* as well as *Polygala vulgaris*, *Minuartia verna* and *Acinos alpinus*. Rusty-back Fern grew on the rocks.

Day 4 Sunday 22nd April Lake Varano, Lake Lesina & Carpino area

Once again we were blessed with superb weather for the whole day. After a short shopping stop in Rodi, where only one shop was open, we headed west along the coast and the bar that runs along the northern shore of Lake Varano. Along the coast was a fine show of *Silene colorata* and Tree Mallow. Along the sides of the path patches of beautiful deep blue were provided by *Alkanna tinctoria* and the typical sand dune species *Silene conica* and *Lotus cytisoides* were common, whilst Myrtle, *Phillyrea angustifolia* and Mediterranean Buckthorn were among the shrubs. White Mignonette was here, Sweet Alison was common, and Ground Pine was a good find. The *Acacia cyanophylla* was in impressive flower. Cetti's Warblers called regularly. The water channel behind the beach produced little today but there was a chorus of calling Italian Hybrid Frogs and a Little Bittern flying out of the reeds was a highlight. On the dunes was a fine flora including Sea Holly, Sea Medick, Cottonweed, *Anthemis maritima*, *Ononis variegata*, Sea Spurge and Sea Bindweed.

A little further along a wider sandy track took us down to the shore. *Verbascum phlomoides* and *Cistus salvifolius* were in flower, and *Lonicera etrusca* and *Dorynium hirsutum* were growing in the dunes. We again reached the beach and had a quick look at the typical flora. Common Blue, Wall Brown and Clouded Yellow were among the butterflies flying in the fine weather. After a short stop to buy bread and water we went to Lake Lesina and walked down to the reed beds along the shore. There followed some fine birding.

Great Reed Warbler sang from the reed tops and Reed Warbler was heard. Some five Squacco Herons frequented the arable fields and ditches, and we had very good views of them. Great Egrets was seen and on the lake were many Coots and a few Little and Great Crested Grebes. A Wood Sandpiper fed on the mud, whilst Marsh Harriers hunted over the reeds. Bearded Tit was seen very well, as were two Penduline Tits gathering nesting material from the tamarisks. Crested Lark, Little Ringed Plover and Tree Sparrow were all here too and Water Rail called distinctively from dense cover. Mallow Skipper was on the wing.

For lunch we drove inland to escape the crowds who were attracted to the coast by the superb weather. The *Paeonia peregrina* I was hoping to see was another victim of the early season, with all plants being in fruit. Often this species is only in bud at this time. There were a few orchids at this site, and it was very peaceful, the narrow lane here now being a dead end and we saw no-one apart from a farmer checking his flock.

By way of a contrast the afternoon was spent exploring a few sites above Carpino and Cagnano. The first was on a fine rocky limestone hillside that supported many plants. Below us were Lake Varano and the calm blue sea. This site has a population of the endemic Iris

bicapitata, but all had gone over this year. Usually we find both purple and yellow forms still in good flower. The orchids too had suffered, and there were none of the usual *Ophrys promontorii*, although we would see many of that species in the south. There were however Burnt-tip Orchid and Man Orchid with some fine examples. Orange-tips were on the wing. The natural rock garden held many fine flowers, with crucifers a feature. Here were Burnt Candytuft, *Thlaspi praecox*, and *Alyssum minus*. *Anchusa cretica* and *Ajuga genevensis* provided some lovely blue splashes of colour. *Minuartia verna* was numerous and there were extensive patches of *Parentucellia latifolia*.

The next stop was to look for Dense-flowered Orchid at the one site we knew for it, where if we find it at all it's usually only one plant. No fewer than five were here today, with some rather robust examples of this diminutive species. *Viola graeca* was here in both purple and yellow forms, and *Viola riviniana* was found too. The first of many *Dactylorhiza romana* were in flower. *Cruciata laevipes*, *Aremonia agrimonioides*, *Lamium garganicum* and *Ranunculus millefoliatus* were all in bloom.

Day 5 Monday 23rd April to Monte St. Angelo via Foresta Umbra

It was time to say farewell to the hotel at Peschici, and head south, driving inland across the peninsula of the Gargano, to the next hotel in Monte St. Angelo. The weather was again superb. The first challenge was to find a bakery that was open and our search took us into the narrow streets of the old town of Vico. Once on our way again we first stopped in the northern part of the Foresta Umbra, a beautiful beech woodland, looking for various woodland orchids. After much searching we found just one of the rare (here) *Orchis provincialis* in flower, with several others that had gone over, and some young shoots of Violet Limodore. There was a good population of *Erica arborea* at the bottom of the slope, with which *Orchis provincialis* often grows. Cuckoo called and Blackcaps and other familiar woodland birds provided a beautiful chorus in this beautiful spot. At the top of the slope we located a single *Epipactis microphylla* shoot, and a few *Cephalanthera damasonium* with one in very good flower. Sanicle was already in bloom this year.

The second stop took us to the visitor centre of the Foresta Umbra, where a little museum displays a good number of stuffed local animals (mammals, birds, butterflies, moths, a few amphibians and reptiles). Just next door to the visitor centre there was an enclosure with some Fallow Deer. On the wall here were Wall Speedwell, Shining Cranesbill, Maidenhair Spleenwort, Hart's-tongue Fern, and Rusty-back Fern. A drive east along the road to Vieste took us through more superb woodland, much more like an eastern European forest rather than one in southern Italy. Here we were fortunate to spot one excellent spike of Sword-leaved Helleborine on the roadside. The woodland bird song was remarkable with a host of common species all singing together. *Cyclamen repandum* was in fine flower and on the road was a dead Roman Mole.

We ate lunch at one of the many picnic tables provided in the forest. There were several interesting plants here such as *Cardamine bulbifera* and Woodruff, and Ramsons in bloom this year. A very tame Nuthatch came to share our picnic.

Nearing Monte St. Angelo we made a stop at another orchid rich site, where we saw both *Ophrys bertolonii* and *Ophrys bertoloniiformis* for the first time, and remarkably *Ophrys garganica* for the first time, on Day 5! This really was a superb orchid site and the variety and numbers were much more representative of a normal year here, which boded well for our time in the south. Also new to us was *Ophrys promontorii*, and *Ophrys lutea*, *Ophrys sicula*, and *Ophrys phryganae* were all identified. With many common species here too there were perhaps fifteen orchid species at this site. The large blue flowered *Linum austriacum* was very beautiful and the white *Helianthemum apenninum* was here. Both Swallowtail and Scarce Swallowtail were on the wing.

Down in the Carbonara Valley we stopped for the tulips in the arable fields but they had all finished flowering this year. We arrived at the hotel in Monte St. Angelo mid-afternoon and settled into our comfortable rooms. As we drove through town we saw the white *Arabis alpina*, the pink *Lamium garganicum*, and the yellow *Doronicum columnae* in flower on the rocks.

The slope that we explored in the late afternoon supported a wealth of orchids with many beautiful examples of a good range of species. This really was a superb site today, with the breathtaking views down to Manfredonia and the coast as a backdrop. *Ophrys bertolonii* and *Ophrys bertoloniiformis* were here again and there was a lot of *Ophrys promontorii*. There were swathes of *Ophrys sicula* and *Ophrys garganica*. Man Orchids, Pink Butterfly Orchids, Green Winged Orchids, and *Ophrys tenthredinifera* were all here too. The aromatic *Sideritis italica* was even just in bloom and the buds of *Salvia argentea* were seen growing from the impressive silver hairy leaves. The hillside was yellow with *Aurinia saxatile* and blue with *Alkanna tinctoria*, and *Onobrychis alba* was in good flower. It was interesting to see the aniseed scented *Scandix australis* growing with the widespread *Scandix pecten-veneris*. Forester moths, Ascelaphids, Berger's Clouded Yellows and Chapman's Blues enjoyed the afternoon sunshine. What a contrast to my memories of some first afternoons up here when jumpers and coats and even gloves were necessary! We enjoyed a very good dinner in the hotel restaurant.

Day 6 Tuesday 24th April Pulsano Road and Gorge

A local day today, spent exploring the very productive Pulsano Road that leads to the sanctuary of the same name which overlooks the gorge where the road ends. Once again we had cloudless skies and the middle of the day was hot. Obviously orchids were a feature of this road and the many stops of the day produced a total of twenty six species, many in large numbers. The fact that there were such numbers here in the south made the comparative scarcity of orchids in the north even more puzzling.

Ophrys bertolonii, *Ophrys bertoloniiformis*, *Ophrys promontorii*, *Ophrys tenthredinifera*, *Ophrys garganica*, and *Ophrys sicula* were all in fine form. We added a new species to the list in the shape of two tiny brown bee orchids, *Ophrys funerea*, that I located in one of the few known sites for the species. At the first stop were some stunning hybrids, probably *Ophrys bertolonii* x *Ophrys tenthredinifera*. We continued to find new sites for *Orchis tridentata* but all the *Orchis lactea* had gone over this year, apart from one in bud. *Orchis quadripunctata* was locally numerous turning the ground pink. Common species such as Man Orchid, *Orchis italica* and *Orchis morio* were abundant, there were several Burnt-tip Orchids and *Serapias lingua* and

Serapias vomeracea were both common. We even found several Lizard Orchids in bud and some Lady Orchids in fine flower.

Surprisingly few raptors were flying in the fine weather, but we did see Buzzards and both species of Kestrel. Quail was heard and one was inadvertently flushed by Wallace as he sought out the best orchids to photograph. Butterflies were numerous and included both Swallowtails, Berger's Clouded Yellow, Little and Chapman's Blues, Brown Argus, and Glanville Fritillary. There were also many Ascelaphids on the wing. *Arabis verna* was in attractive flower in one shady spot and among other new plants were *Vicia peregrina*, *Helianthemum canum*, *Valantia muralis* and *Valeriana collina*.

We really had to seek out some shade for the picnic, and a lone Carob provided it. *Kohlrauschia velutina* was found here. Early afternoon saw us visiting the sanctuary where a noisy group of school children were ignoring the silencio notices. The views of the gorge were impressive, all the way down to the coast. The old walls here supported several interesting plants including *Seseli montanum*, *Hyoscyamus albus*, *Cymbalaria muralis*, Roman Nettle, *Chenopodium murale* and *Campanula erinus*. The walk along the gorge was rather hot this afternoon but the path is not difficult, and descends very gradually to the woods at the end of the gorge. The rocks supported three endemic plants, *Campanula garganica* which was in fine flower, *Scabiosa dallaportae* on which for the first time ever we found one very early flower, and *Inula verbascifolia* which blooms much later. *Chamaecytisus spinescens* and *Onosma echioides* were both very attractive. A single *Linum tenuifolium* was a new record for this tour. *Fumana ericoides*, *Sideritis romana*, *Euphrasia pectinata* and *Crupina crupinastrum* were among the many other plants here. Two *Ophrys apulica* were located, and Early Spider Orchid, *Ophrys sphegodes*, was added to our list. A lone *Orchis fragrans* growing along the gorge was an important record in a new location. A Spotted Fritillary was a pleasing addition to our Gargano butterfly list.

Day 7 Wednesday 25th April Bosco Quarto and Chiancate

Today was a national holiday (Liberation Day), and there were bound to be crowds wherever we went. This was certainly the case in the morning but in the afternoon we managed to see hardly a soul on the Chiancate. For a change the day started with rain in Monte St. Angelo and we expected a cooler day, and were quite happy about that. However at our first stop in the Carbonara Valley the sun soon broke through and the remainder of the day was again fine and very warm. *Ophrys bertolonii* and *Ophrys tenthredinifera* were among the orchids at the first stop and there was much *Linum austriacum* and *Helianthemum apenninum*. The unusual green and black flowered *Vicia melanops* was a good find, much rarer here than previously, this being the only place we have seen it on the last few visits. A black dog befriended us and a group of horseriders stopped and surrounded us to take our photo! Stonechats, Corn Buntings and a female Wheatear were among the birds.

At a site for *Paeonia mascula* all the plants were in fruit, but among the arable weeds were *Ranunculus arvensis*, *Buglossoides arvensis* and *Asperula arvensis*. Nightingales sang almost throughout the day. A roadside rock garden held the first of many *Narcissus poeticus* still in flower, as well as *Saxifraga carpetana*.

A Bird's-nest Orchid was almost in flower and a little later we found one in better bloom. There was much fine *Dactylorhiza romana*. Among the many other woodland plants were *Dorycnium orientale* and *Cardamine graeca*. Nuthatch and Wren were among the familiar woodland birds. A good find was four superb *Ophrys biscutella* on a little limestone outcrop inside the forest.

At another stop the woodland floor was covered in privet, among which grew *Polygonatum odoratum*, *Pulmonaria vallisae*, *Allium pendulinum*, *Anemone apennina*, *Viola suavis*, *Viola riviniana*, and *Aquilegia vulgaris*, of which I even found one in flower. Blackcaps sang continuously.

It was time for lunch which I prepared in a quiet spot away from the crowds. The diminutive *Aphanes inexpectata* grew in the short turf. As I was packing the things away our friend Claudio Del Fuoco appeared, with six other cars in tow! He and his family/friends were going out to a restaurant for lunch. We quickly exchanged information on the state of the various orchids here this year. It was a bizarre experience to suddenly be surrounded by about thirty people at our peaceful lunch stop! March managed to sleep through the whole thing!

The next stop produced some fine *Dactylorhiza romana* and a pair of Lesser Spotted Woodpeckers that we watched for some time. Nearby were our first Elder-flowered Orchid, a superb specimen, and a Marsh Fritillary, a species that may not have been recorded in the Gargano. We were surrounded by four Nightingales singing for all their worth. Southern Festoon was on the wing too.

A field that is usually full of *Corydalis cava* had only a few in flower this year, but here Wallace spotted two superb flowers of *Paeonia mascula*. There was also fine *Iris lutescens*, some twenty Burnt-tip Orchids, and *Orchis quadripunctata* and Doreen found *Viola arvensis*.

Once on the fine limestone upland of Chiancate we were treated to one of the floral highlights of the week. The *Orchis pauciflora* was in fine form, and a lone Dense-flowered Orchid at a new site was an important find. *Euphorbia myrsinites* was a feature of the site and *Centaurea triumfetti* and *Globularia alypum* were found in flower. A small umbellifer seen for the first time may have been *Conopodium capillifolium*. This is the only known site for the diminutive *Ophrys virescens* and I was pleased to find six of them, more so as Claudio had said there were only two here this year. Another fine Elder-flowered Orchid was located, and much *Orchis quadripunctata*. The large flowers of *Senecio tenorei* added to the variety. Golden Oriole was heard for the first time, and we would hear several over the next couple of days.

Day 8 Thursday 26th April
Wetlands and

Ruggiano Road, Manfredonia

Margherita Saltpans

At the first stop there was a selection of the commoner orchids, and *Orchis tridentata* was found at yet another new site. Close by was the site for the very local endemic *Ophrys sipontensis*, but sadly most had gone over this year. There were also a few hybrids of the species, possibly crossed with *Ophrys promontorii*. Golden Oriole sang at both sites. A stop beside the busy road

was necessary to see *Serapias apulica*, of which there was only one left in flower this year. *Linum trigynum* and *Gladiolus communis* were found during our brief visit.

Lunch at Manfredonia wetlands was particularly productive this year. The arable fields here were covered in water, and for the first time supported many waders and wetland birds, including several Greylag Geese, some with young. Purple Herons on the road punctuated our drive and we had superb close views of them, and a male Whinchat was seen.

We were welcomed by the very friendly and helpful Giuseppe who was in charge of a breeding programme of released White Storks. We saw the birds on a platform nest, and also here was at least one wild bird. Over the reeds and fields were many Red-footed Falcons, a beautiful bird, and I estimated there were about one hundred and fifty here today. It was possible to get ten or so in the scope at once, as many were perched on the ground. This was the species illustrated on the cover of Wallace's edition of Lars Jonsson. Squacco Heron and Spoonbill flew past during our lunch, and Hairy Dragonfly was among several species here. *Spergularia marina* grew in the wet grass.

After lunch we climbed the watch tower and watched the storks, Red-footed Falcons, several Marsh Harriers and distant Spoonbills. Great Reed Warblers and Sedge Warblers were seen in the reeds and Bearded Tit was heard. Giuseppe showed us the captive White-headed Duck breeding programme and we could admire this bizarre looking duck from a hide. We were even given notebooks with the duck on the cover. Having been armed with a length of rope we drove to a metal tower. The ladder was very steep, maybe even less than vertical, but Wallace and I made it up there, and pulled the telescope up with the rope! Our efforts were rewarded with views of some forty roosting Night Herons, flying Spoonbills, Ferruginous Ducks and a few White-winged Terns. Hoopoe was seen well on the track and Yellow Flags were in fine bloom. As we were leaving I spotted a very robust tongue orchid beside the track which prompted a photo stop. This was probably *Serapias orientalis*.

Back on the road we drove south to the extensive series of working saltpans at Margherita. At the first small roadside pond Avocets and Black-winged Stilts immediately caught our attention, and both were numerous in the area. Dunlin, Curlew Sandpiper, Spotted Redshank and Little Stint were all almost in distinctive breeding plumage. The great thing about this site is that we were able to stand so close to these birds without disturbing them. In the telescope we had particularly fine views. Scanning the waders we also saw Redshank, Greenshank, Kentish Plover, Common Sandpiper, Wood Sandpiper and Ruff. *Lavatera cretica* and Squirting Cucumber were among the plants. A feature of the site is the Slender-billed Gulls, which however had not fully developed their pink flushed breeding plumage. There were Flamingoes close too, allowing very good views. Shelduck and Zitting Cisticola added to the variety. Down on the shore, where the *Carpobrotus edulis* was in good flower, was a group of Oystercatchers.

We drove on to another site where we walked along a path between the saltpans. Flamingoes and Avocets were numerous, the former colouring the distant shore pink in places. A single Little Tern was seen and four Mediterranean Gulls in breeding plumage flew close to us. The flora included typical saltmarsh species such as *Arthrocnemum perenne*, *Arthrocnemum fruticosum*, *Suaeda vera* and *Camphorosma monspeliaca*. Small Scabious was in flower.

We headed back to Monte St. Angelo via an exciting series of hairpin bends, full of enthusiasm for the great afternoon's birding we had enjoyed.

Day 9 Friday 27th April Carbonara Valley, Monte Nero, Cento
Pozzi
Rignano and Borgo Celano

Our last day in the field was a mixed bag, with a variety of places still to visit. Again the day started miserably in Monte St. Angelo but the sun soon broke through the clouds. The first site near the Carbonara Valley had been somewhat disturbed by a new track but we still managed to find a variety of orchids including a small *Ophrys lupercalis* (according to Delforge *Ophrys bilunulata* does not occur here and this is the relevant species). There were Lizard Orchids in bud too, but at the next stop we found one of these most impressive orchids in full bloom.

The paved track that leads up Monte Nero is always a floral delight, having much in common with the nearby Chiancate. Thus we saw many more *Orchis pauciflora*, as well as a few Elder-flowered Orchids and some fine *Ophrys biscutella*. *Dactylorhiza maculata* was in bud and it was great to find two Dense-flowered Orchids at yet another new site. Green Woodpecker called, and there were fine views of the extensive woodland, with scattered exposed limestone outcrops on the hill tops. Among the many plants here were *Aristolochia rotunda*, *Anemone pavonina*, *Ranunculus millefoliatus*, *Saxifraga bulbifera*, *Viola heterophylla*, *Anchusa cretica*, and *Globularia punctata*. White Asphodel was a new species for the tour, being in early flower this year, and *Astragalus glycyphyllos* was in leaf

Our last picnic was eaten in the Cento Pozzi dolina where the ponds supported the usual green frogs, but no snakes were seen today. The slopes below Rignano were as expected rather dry by now, but *Convolvulus cantabrica* was new to us. The last stop of the day near Borgo Celano produced a fine singing male Black-eared Wheatear and both *Ophrys bertolonii* and *Ophrys bertoloniiformis*. We returned early to the hotel to allow time for packing or relaxing before tomorrow's journey, and Doreen visited some of the sites in town. The farewell dinner was another enjoyable affair with the usual good food and service.

Day 10 Saturday 28th April Departure

The trip was over and we said our farewells to Monte St. Angelo and descended to the plains, taking the coast road south to Bari. A short stop at the Margherita Saltpans allowed another look at the selection of waders, as well as the Flamingoes. Having reached Bari in good time we found the Best Western where Wallace and March were to spend two nights. At the airport we checked in for our respective flights, and reflected on what an enjoyable and productive tour it had been.

Systematic List Number 1

Plants

Species recorded on previous tours but not seen this year are annotated with the year in which they were last seen. Species seen for the first time this year are annotated 2007. A number of works are used for taxonomy and nomenclature, although in general the system of Flora Europaea is followed. The rather early season this year saw several usually later flowering species in bloom, whilst most of the regular species were seen too, producing an even richer list than usual.

Pteridophyta

<i>Adiantum capillus-veneris</i>	Maidenhair Fern	Peschici area 2007
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	Sheltered walls etc.
<i>Blechnum spicant</i>	Hard Fern	Foresta Umbra
<i>Ceterach officinarum</i>	Rusyback Fern	Widespread and locally common
<i>Dryopteris filix-mas</i>	Male Fern	Noted in the Foresta Umbra and Bosco Quarto
<i>Phyllitis scolopendrium</i>	Harts-tongue Fern	Noted in the Foresta Umbra and Bosco Quarto
<i>Polypodium vulgare</i>	Common Polypody	Foresta Umbra
<i>Polystichum setiferum</i>	Soft Shield Fern	Foresta Umbra
<i>Pteridium aquilinum</i>	Bracken	Widespread

Selaginellaceae

<i>Selaginella denticulata</i>	Mediterranean Selaginella	Local on shaded rocks and banks, 2007.
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Pinaceae

<i>Cedrus atlantica</i>	Atlas Cedar	Bosco Quarto Agriturismo 2006
<i>Larix decidua</i>	Larch	Foresta Umbra and Bosco di Spina Pulci
<i>Pinus halepensis</i>	Aleppo Pine	Widespread, forming woods in the north
<i>Pinus nigra</i>	Black Pine	Locally planted, e.g. Foresta Umbra
<i>Pinus pinea</i>	Stone Pine	Noted on journeys to and from Bari Airport
<i>Pinus sylvestris</i>	Scots Pine	Foresta Umbra
<i>Pseudotsuga menziesii</i>	Douglas Fir	Agriturismo in Bosco Quarto

Cupressaceae

<i>Cupressus macrocarpa</i>		Above Carpino
<i>Cupressus sempervirens</i>	Italian Cypress	Scattered
<i>Juniperus oxycedrus</i>	Prickly Juniper	North coast and Pulsano Gorge
<i>Juniperus phoenicea</i>	Phoenician Juniper	Noted along the north coast 2004

Taxacaceae

<i>Taxus baccata</i>	Yew	Foresta Umbra
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Corylaceae

<i>Carpinus betulus</i>	Hornbeam	Widespread in the hills – sometimes co-Dominant. Smooth grey bark.
<i>Carpinus orientalis</i>	Oriental Hornbeam	Widespread – tended to be commoner on lower slopes of the hills. Similar to the previous species but smaller leaves.
<i>Ostrya carpinifolia</i>	Hop Hornbeam	Locally numerous. Trunk brown and fissured.
<i>Corylus avellana</i>	Hazel	Pulsano Road

Fagaceae

<i>Castanea sativa</i>	Sweet Chestnut	Locally common
<i>Fagus sylvatica</i>	Common Beech	Locally dominant, as in parts of Foresta Umbra
<i>Quercus cerris</i>	Turkey Oak	Widespread in the forests
<i>Quercus ilex</i>	Holm Oak	Widespread everywhere
<i>Quercus pubescens</i>	Downy Oak	Scattered throughout
<i>Quercus robur</i>	Pedunculate Oak	Noted at Dolina Pozzantino

Salicaceae

<i>Salix babylonica</i>	Weeping Willow	Pulsano Road, Monte St Angelo.
<i>Populus nigra</i>	Black Poplar	North coast

Juglandaceae

<i>Juglans regia</i>	Walnut	Bosco Quarto
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Betulaceae

<i>Alnus cordata</i>	Oriental Alder	Foresta Umbra
<i>Betula pendula</i>	Silver Birch	Foresta Umbra

Ulmaceae

<i>Ulmus minor</i>	Small-leaved Elm	Scattered records
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Moraceae

<i>Ficus carica</i>	Fig	Widespread
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Loranthaceae

<i>Loranthus europaeus</i>		Noted in the southern hills, parasitic on oak, 2006. 2007 in Bosco Quarto, also on oak.
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Santalaceae

<i>Osyris alba</i>	Osyris	Peschici area
<i>Thesium humile</i>		Southern Bosco Quarto 2007

Urticaceae

<i>Parietaria judaica</i>	Pellitory of the Wall	Scattered
<i>Parietaria officinalis</i>	Common Pellitory	Scattered
<i>Urtica dioica</i>	Stinging Nettle	Common
<i>Urtica membranacea</i>	Membraneous Nettle	Peschici 2005
<i>Urtica pilulifera</i>	Roman Nettle	Santa Maria di Pulsano Sanctuary
<i>Urtica urens</i>	Annual Nettle	Recorded 2003

Cannabaceae

<i>Humulus lupulus</i>	Hop	Passo Ingarano 2002
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Aristolochiaceae

<i>Aristolochia clusii</i>		Widespread, ground cover in woods
<i>Aristolochia rotunda</i>		Noted in the Foresta Umbra and Bosco di Spina Pulci etc. Very short petioles.

Polygonaceae

<i>Polygonum aviculare</i>	Knotgrass	North coast
<i>Rumex acetosa</i>	Common Sorrel	Scattered records
<i>Rumex acetosella</i>	Sheep's Sorrel	Noted in the south, 2005.
<i>Rumex conglomeratus</i>	Clustered Dock	Margherita Saltpans
<i>Rumex crispus</i>	Curled Dock	Scattered records
<i>Rumex maritimus</i>	Golden Dock	Vasca del Lago Salso 2002
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Widespread
<i>Rumex palustris</i>	Marsh Dock	Manfredonia Wetlands 2005
<i>Rumex pulcher</i>	Fiddle Dock	Foresta Umbra 2006

Chenopodiaceae

<i>Arthrocnemum fruticosum</i>	Glasswort	Margherita Saltpans
<i>Arthrocnemum perenne</i>	Glasswort	Noted near Margherita Saltpans. Also north coast in 2006.
<i>Atriplex halimus</i>	Shrubby Orache	Lake Lesina 2004
<i>Atriplex prostrata</i>	Spear-leaved Orache	Margherita Saltpans
<i>Beta vulgaris</i>	Sea Beet	Scattered
<i>Camphorosma monspeliaca</i>		Margherita Saltpans
<i>Chenopodium album</i>	Fat Hen	Recorded
<i>Chenopodium murale</i>	Nettle-leaved Goosefoot	Santa Maria di Pulsano Sanctuary
<i>Halimione portulacoides</i>	Sea Purslane	Common in salt marshes at Margherita
<i>Salsola kali</i>	Prickly Saltwort	Varano Island. 2003.
<i>Suaeda vera</i>	Shrubby Seablite	Noted at Margherita Saltpans
<i>Suaeda splendens</i>		Margherita Saltpans
<i>Salicornia europaea</i>	Glasswort	Margherita Saltpans

Aizoaceae

<i>Carpobrotus edulis</i>	Hottentot Fig	Saltmarshes at Margherita Saltpans, and north coast
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Caryophyllaceae

<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	Pulsano Road
<i>Cerastium fontanum</i>	Mouse-ear Chickweed	Scattered
<i>Cerastium glomeratum</i>	Sticky Mouse-ear	Widespread
<i>Cerastium semidecandrum</i>	Little Mouse-ear	North coast and Pulsano Road
<i>Dianthus sylvestris</i>	Wood Pink	A few in seed, 2005.
<i>Herniaria glabra</i>	Smooth Rupturewort	Pulsano Road etc.
<i>Herniaria hirsuta</i>	Hairy Rupturewort	Scattered records
<i>Minuartia hybrida</i>	Fine-leaved Sandwort	Scattered records
<i>Minuartia verna</i>	Spring Sandwort	Widespread in the hills, locally common.
<i>Moehringia trinervia</i>	Three-veined Sandwort	Bosco Quarto 2006
<i>Petrohagia prolifera</i>	Proliferous Pink	Passo Ingarano 2002
<i>Petrohagia velutina</i>	Kohlrauschia	Scattered records, e.g. Pulsano road
<i>Polycarpon diphyllosum</i>	Two-leaved Allseed	Noted in the south
<i>Polycarpon tetraphyllum</i>	Four-leaved Allseed	North coast
<i>Sagina apetala</i>	Annual Pearlwort	Pulsano Road
<i>Sagina procumbens</i>	Procumbent Pearlwort	Scattered records
<i>Scleranthus annuus</i>	Annual Knawel	Noted on one day 2006
<i>Scleranthus perennis</i>	Perennial Knawel	Varano 'Island' 2002
<i>Silene alba</i>	White Campion	A few northern sites
<i>Silene colorata</i>		Very common on coastal dunes
<i>Silene conica</i>	Sand Catchfly	Pulsano Road and North Coast, mostly over this year
<i>Silene gallica</i>	Small-flowered Catchfly	Passo Ingarano
<i>Silene italica</i>	Italian Catchfly	Widespread and common
<i>Silene vulgaris</i>	Bladder Campion	Scattered

Spergularia marina
Spergularia rubra
Stellaria holostea
Stellaria media
Stellaria neglecta
Velezia rigida

Lesser Sea Spurrey
Sand-spurrey
Greater Stitchwort
Common Chickweed
Greater Chickweed

Manfredonia wetlands
Pulsano
Scattered in wooded areas
Widespread. Stamens 3 to 8.
Recorded. Stamens 10.
Vieste area 2003

Ranunculaceae

Adonis aestivalis
Adonis annua
Anemone apennina
Anemone hortensis
Anemone pavonina

a Pheasant's-eye
Pheasant's-eye
Blue Anemone

Rignano 2005
Carbonara Valley 2006
Locally co-dominant under trees in the hills
Only on Passo Ingarano
Widespread and common, although many
had finished flowering this year

Aquilegia vulgaris

Common Columbine

Leaves seen in the Bosco Quarto, with one
even in flower this year

Clematis flammula
Clematis vitalba
Eranthis hyemalis
Nigella arvensis
Nigella damascena
Ranunculus acris

Fragrant Clematis
Traveller's Joy
Winter Aconite

Scattered in the north, in leaf
Scattered – mostly in the north. In leaf.
In seed in Carbonara Valley 2006
Scattered in the north. 2002

Ranunculus arvensis
Ranunculus auricomus
Ranunculus bulbosus
Ranunculus ficaria
Ranunculus lanuginosus
Ranunculus millefoliatus
Ranunculus parviflorus
Ranunculus sardous
Ranunculus scleratus
Ranunculus trichophyllus

Corn Buttercup
Goldilocks
Bulbous Buttercup
Lesser Celandine
Woolly Buttercup

Small-flowered Buttercup
Hairy Buttercup
Celery-leaved Buttercup
Thread-leaved Water Dropwort

North coast
Pilgrim's Road, Monte St Angelo and near
Vieste
Noted near Bosco Quarto
Scattered records. 2002
Widespread
Bosco Quarto only
Scarce
Widespread and common
Vasca del Lago Salso 2002
Scattered records
Along the north coast 2002
Manfredonia wetlands 2005

Paeoniaceae

Paeonia mascula
Paeonia officinalis
Paeonia peregrina

a Peony
Common Peony
a Peony

In fine flower at one site near Bosco Quarto
In leaf at Monte Nero
In fruit this year at one site in the northern
coastal area

Capparaceae

Capparis ovata
Capparis spinosa

Caper
a Caper

Noted on the north coast 2002
Scattered records in leaf

Papaveraceae

Chelidonium majus
Papaver apulum
Papaver dubium
Papaver hybridum
Papaver rhoeas

Greater Celandine

Long-headed Poppy
Rough Poppy
Corn Poppy

Foresta Umbra
Scattered records
Pulsano Road 2006
Scattered records 2004
Widespread, some fine fields full of
flowers
Near Sannicandro 2007

Papaver somniferum

Opium Poppy

Fumariaceae

Corydalis cava

Bulbous Corydalis

Only a few left in flower this year.

<i>Fumaria agraria</i>		Dolina Pozzatina 2007
<i>Fumaria bastardii</i>		Pulsano Road
<i>Fumaria capreolata</i>	White Ramping-Fumitory	Widespread and common
<i>Fumaria densiflora</i>		Recorded 2002
<i>Fumaria officinalis</i>	Common Fumitory	Widespread and locally abundant
<i>Fumaria parviflora</i>	Small Fumitory	Pulsano Sanctuary
Cruciferae		
<i>Aethionema saxatile</i>	Burnt Candytuft	Common on open turf in the south
<i>Alliaria petiolata</i>	Garlic Mustard	Noted in woodlands
<i>Alyssoides sinuata</i>	Alyssoides	Scattered, e.g. Passo Ingarano
<i>Alyssum leucadeum</i>		Possibly this species seen along Pulsano Road 2004
<i>Alyssum minus</i>		Scattered records
<i>Arabidopsis thaliana</i>	Thale Cress	Scattered 2004
<i>Arabis alpina</i>	Alpine Rockcress	Monte St. Angelo, ssp. <i>caucasica</i> .
<i>Arabis collina</i>		Scattered records in the south, pinkish flowers
<i>Arabis glabra</i>	Tower Mustard	Scattered
<i>Arabis hirsuta</i>	Hairy Rockcress	Widespread
<i>Arabis turrata</i>	Towercress	Dolina Pozzatina
<i>Arabis verna</i>	Spring Rockcress	Only seen along the Pulsano Road
<i>Aubrieta columnae</i>		Widespread on walls or on short turf and rocks in the south. Not in flower 2007.
<i>Aurinia saxatile</i>		Widespread and common
<i>Barbarea bracteosa</i>	a Wintercress	Scattered records
<i>Biscutella didyma</i>	Biscutella	Widespread
<i>Brassica nigra</i>	Black Mustard	Scattered
<i>Brassica rapa</i>		Recorded
<i>Bunias erucago</i>	Bunias	Rather widespread and locally common
<i>Cakile maritima</i>	Sea Rocket	Noted on the shore in the north, and at Margherita
<i>Calepina irregularis</i>	White Ball Mustard	Arable field near Chiancate
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Widespread and common
<i>Capsella rubella</i>		Recorded
<i>Cardamine graeca</i>		Widespread in forests. White flowers.
<i>Cardamine hirsuta</i>	Hairy Bittercress	Bosco Quarto etc.
<i>Cardamine impatiens</i>	Narrow-leaved Bittercress	In woods above Carpino 2002
<i>Cardamanopsis arenosa</i>		Foresta Umbra 2003
<i>Cardaria draba</i>	Hoary Cress	Widespread, particularly in the north
<i>Clypeola jonthlaspi</i>	Clypeola	Local 2006
<i>Coronopus squamatus</i>	Swinecress	Noted at Lago di Lesina 2002
<i>Dentaria (Cardamine) bulbifera</i>		Scattered in woods
<i>Diplotaxis eruroides</i>		Near Peschici 2007
<i>Diplotaxis tenuifolia</i>	Perennial Wall Rocket	Pulsano Road, 2005
<i>Draba muralis</i>	Wall Whitflow-Grass	Scattered
<i>Erophila verna</i>		Scattered records in seed
<i>Eruca sativa</i>	Eruca	Widespread
<i>Erysimum cheiri</i>	Wallflower	Recorded 2004
<i>Erysimum sp.</i>	Treacle Mustard	Yellow flowers and fine grey leaves, Pulsano Road 2007
<i>Fibigia clypeata</i>	Fibigia	Passo di Ingarano 2002
<i>Hirschfeldia incana</i>	Hoary Mustard	Scattered records
<i>Hornungia petraea</i>	Hutchinsia	Very local
<i>Isatis tinctoria</i>	Woad	Widespread and often common
<i>Lobularia maritima</i>	Sweet Alison	Scattered in the north
<i>Matthiola incana</i>	Hoary Stock	Tower near Peschici
<i>Raphanus raphinistrum</i>	Wild Radish	Scattered
<i>Sinapis alba</i>	White Mustard	Widespread
<i>Sinapis arvensis</i>	Charlock	Widespread

<i>Sisymbrium irio</i>	London Rocket	Recorded
<i>Sisymbrium loeselii</i>		Pulsano Gorge
<i>Sisymbrium officinale</i>	Hedge Mustard	Scattered
<i>Sisymbrium orientale</i>		Recorded 2003
<i>Thlaspi montanum</i>		Pulsano Road 2003
<i>Thlaspi perfoliatum</i>	Perfoliate Pennycress	Scattered
<i>Thlaspi praecox</i>		Near Carpino
<i>Resedaceae</i>		
<i>Reseda alba</i>	White Mignonette	Widespread but local
<i>Reseda lutea</i>	Wild Mignonette	Pulsano Road
<i>Reseda luteola</i>	Weld	Noted in the north of the peninsula 2002
<i>Reseda phyteuma</i>	Corn Mignonette	Pulsano Road 2006
<i>Crassulaceae</i>		
<i>Crassula vaillanti</i>	Crassula	Scattered. 2002
<i>Sedum acre</i>	Biting Stonecrop	Scattered
<i>Sedum album</i>	White Stonecrop	Monte Nero
<i>Sedum caespitosum</i>		Widespread and locally common
<i>Sedum hispanicum</i>		Pulsano Gorge 2006
<i>Sedum ochroleucon</i>		Pulsano Road etc, in leaf
<i>Sedum reflexum</i>		Scattered. 2003
<i>Sedum stellatum</i>	Starry Stonecrop	Scattered records, in leaf
<i>Umbilicus rupestris</i>	Navelwort	Local on walls
<i>Saxifragaceae</i>		
<i>Saxifraga graeca (carpetana)</i>		Widespread but local
<i>Saxifraga bulbifera</i>		Scattered, has bulbils in leaf axils.
<i>Saxifraga tridactylites</i>	Rue-leaved Saxifrage	Noted in a variety of localities
<i>Platanaceae</i>		
<i>Platanus X hybrida</i>	London Plane	Noted en route from Bari to Peschici
<i>Hydrangeaceae</i>		
<i>Philadelphus coronarius</i>		Naturalised at the Dolina Pozzatina
<i>Pittosporaceae</i>		
<i>Pittosporum tobira</i>		Recorded
<i>Rosaceae</i>		
<i>Aphanes inexpectata</i>	a Parsley Piert	Noted at three sites in short woodland turf
<i>Aremonia agrimoides</i>	Bastard Agrimony	Widespread but local in woods
<i>Cotoneaster nebrodensis</i>		Possibly this species near Peschici
<i>Crataegus azarolus</i>	Medlar	Noted near Sannicandro. 2002
<i>Crataegus monogyna</i>	Hawthorn	Widespread
<i>Eriobotrya japonica</i>	Loquat	Noted in the north of the peninsula. 2002
<i>Filipendula vulgaris</i>	Dropwort	Leaves noted
<i>Fragaria moschata</i>	Hautbois Strawberry	Scattered in the hills
<i>Fragaria vesca</i>	Wild Strawberry	Local
<i>Fragaria viridis</i>		Recorded
<i>Geum urbanum</i>	Herb Bennet	Pulsano Gorge
<i>Malus sylvestris</i>	Crab Apple	Pulsano Road, Monte St Angelo, near Vico, and above Carpino
<i>Potentilla hirta</i>		Scattered in leaf
<i>Potentilla reptans</i>	Creeping Cinquefoil	Above Carpino 2002

<i>Potentilla micrantha</i>		Scattered, Spina Pulci and Bosco Quarto, 2006
<i>Prunus avium</i>	Wild Cherry	Scattered
<i>Prunus dulcis</i>	Almond	Commonly cultivated
<i>Prunus mahaleb</i>	St.Lucies' Cherry	Pulsano Gorge
<i>Prunus spinosa</i>	Blackthorn	Scattered
<i>Pyrus amygdaliformis</i>	Almond-leaved Pear	Widespread
<i>Pyrus communis</i>	Cultivated Pear	Recorded 2004.
<i>Rosa</i> spp.	Roses	Several species not identified
<i>Rubus canescens</i>		Widespread
<i>Rubus ulmifolius</i>		Widespread
<i>Rubus</i> spp.	Brambles	Several other species not identified
<i>Sanguisorba minor</i>	Salad Burnet	Scattered
<i>Sorbus aucuparia</i>	Rowan	Scattered
<i>Sorbus torminalis</i>	Wild Service Tree	Foresta Umbra 2005
 <i>Fabaceae</i>		
<i>Acacia cyanophylla</i>	Blue-leaved Wattle	Planted in northern lowlands
<i>Amorpha fruticosa</i>		Manfredonia wetlands (not seen 2007)
<i>Anagyris foetida</i>	Bean Trefoil	Scattered records
<i>Anthyllis barba-jovis</i>	Jupiter's Beard	Common along the edge of the beach near Peschici
<i>Anthyllis tetraphylla</i>	Bladder Vetch	Scattered in northern lowlands
<i>Anthyllis vulneraria</i>	Kidney Vetch	Subspecies <i>maura</i> and <i>praepropera</i> , both pink flowered, widespread and common
<i>Astragalus glycyphyllos</i>	Wild Liquorice	In leaf on Monte Nero
<i>Astragalus hamosus</i>		Locally quite frequent, mostly in seed
<i>Astragalus monspessulanus</i>	False Vetch	In flower at one site along Pulsano Road
<i>Astragalus montanus</i>		Pulsano Road
<i>Astragalus sesameus</i>		Noted in the south
<i>Ceratonia siliqua</i>	Carob Tree	Local
<i>Cercis siliquastrum</i>	Judas Tree	Scattered
<i>Chamaecytisus spinescens</i>		Noted by the Pulsano Road, Monte St Angelo, and along the roadsides south of the town
<i>Coronilla emerus</i>	Scorpion Senna	Widespread
<i>Coronilla scorpioides</i>	Annual Scorpion Vetch	Widespread
<i>Cytisus decumbens</i>		Locally very common around Monte St Angelo, in fine flower. Entire leaves.
<i>Cytisus scoparius</i>	Broom	Scattered
<i>Cytisus villosus</i>	Hairy Broom	Foresta Umbra
<i>Dorycnium hirsutum</i>	Dorycnium	Common in dunes and sandy areas in north Pulsano Road
<i>Genista sylvestris</i>		
<i>Genista tinctoria</i>	Dyer's Greenweed	Monte St Angelo and Bosco Quarto and above Carpino
<i>Hedysarum coronarium</i>	Italian Sainfoin	Scattered records, but not in 2006 or 2007?
<i>Hippocrepis biflora</i>		Recorded 2003
<i>Hippocrepis glauca</i>		Widespread and common
<i>Hippocrepis multisiliquosa</i>		Near Peschici
<i>Hippocrepis unisiliquosa</i>		Widespread
<i>Hymenocarpus circinnatus</i>	Disk Trefoil	Sannicandro area
<i>Lathyrus annuus</i>		Local 2004
<i>Lathyrus aphaca</i>	Yellow Vetchling	Scattered records
<i>Lathyrus articulatus</i>		North coast 2003
<i>Lathyrus cicera</i>		Widespread and locally common
<i>Lathyrus clymenum</i>		Only along Ruggiano road 2006
<i>Lathyrus ochrus</i>		Local
<i>Lathyrus setifolius</i>		Widespread
<i>Lathyrus sphaericus</i>		Bosco Quarto

<i>Lathyrus venetus</i>		Foresta Umbra and Bosco Quarto
<i>Lotus corniculatus</i>	Birdsfoot Trefoil	Scattered
<i>Lotus cytisoides</i>		North coast
<i>Lotus edulis</i>	Edible Lotus	Widespread – especially along coasts
<i>Lotus halophilus</i>		Very common locally in the north of the peninsula but seemed absent in the south
<i>Lotus uliginosus</i>	Greater Birdsfoot Trefoil	Bosco Quarto 2002
<i>Lupinus albus</i>	White Lupin	Fodder crop and seeded therefrom
<i>Lupinus varius</i>		As above
<i>Medicago arabica</i>	Spotted Medick	Widespread
<i>Medicago disciformis</i>		Scattered records
<i>Medicago littoralis</i>		Noted by the coast near Peschici
<i>Medicago lupulina</i>	Black Medick	Widespread
<i>Medicago marina</i>	Sea Medick	Along the shoreline near Peschici, and Varano island
<i>Medicago minima</i>		Recorded
<i>Medicago murex</i>		Local 2005
<i>Medicago orbicularis</i>	Large Disk Medick	Near Peschici
<i>Medicago polymorpha</i>	Toothed Medick	Scattered
<i>Medicago sativa</i>	Lucerne	Between Peschici and Bari Airport
<i>Medicago truncatula</i>		Recorded 2006
<i>Melilotus albus</i>	White Melilot	Noted by the coast near Peschici. 2002
<i>Melilotus elegans</i>		Near Vieste 2002
<i>Melilotus indicus</i>	Small Melilot	Recorded
<i>Melilotus infestus</i>		Recorded
<i>Melilotus italicus</i>		Recorded
<i>Melilotus segetalis</i>		Margherita salt pans
<i>Melilotus sulcata</i>		Recorded 2006
<i>Onobrychis aequidentata</i>		Widespread
<i>Onobrychis alba</i>		Very common around Monte St Angelo.
<i>Onobrychis caput-galli</i>	Cockscomb Sainfoin	Noted in the south
<i>Onobrychis viciaefolia</i>		Margherita Salt pans
<i>Ononis natrix</i>	Large Yellow Restharrow	Margherita Salt pans 2004
<i>Ononis reclinata</i>	Small Restharrow	Near Peschici
<i>Ononis variegata</i>		Locally common on the north coast
<i>Ononis viscosa</i>		Recorded in the north
<i>Ornithopus compressus</i>	Compressed Birdsfoot	Pulsano Gorge
<i>Pisum sativum</i>	Wild Pea	Widespread and locally common
<i>Psoralea bituminosa</i>	Pitch Trefoil	Widespread
<i>Robinia pseudacacia</i>	False Acacia	Locally planted
<i>Scorpiurus muricatus</i>		Scattered
<i>Securigera securidaca</i>		Widespread and common
<i>Spartium junceum</i>	Spanish Broom	Widespread
<i>Teline monspessulana</i>		Noted in the Foresta Umbra. 2002
<i>Tetragonolobus purpureus</i>	Asparagus Pea	Peschici area
<i>Trifolium arvense</i>	Hare's-foot Clover	Local
<i>Trifolium campestre</i>	Hop Trefoil	Near Peschici
<i>Trifolium cherleri</i>		Scattered records
<i>Trifolium medium</i>	Zigzag Clover	Pulsano Road
<i>Trifolium pratense</i>	Red Clover	Scattered
<i>Trifolium repens</i>	White Clover	Widespread
<i>Trifolium resupinatum</i>	Reversed Clover	Near Peschici
<i>Trifolium scabrum</i>	Rough Clover	Scattered records
<i>Trifolium stellatum</i>	Star Clover	Widespread and common
<i>Trifolium subterraneum</i>		Near Carpino etc.
<i>Trifolium tomentosum</i>	Woolly Clover	Scattered
<i>Trigonella</i> sp.		Cliffs south of Ruggiano. Yellow flowers.
<i>Vicia atropupurea (benghalensis)</i>		Passo Ingarano and other northern sites
<i>Vicia barbitziae</i>		Noted in the Foresta Umbra. 2002
<i>Vicia bithynica</i>		Widespread

<i>Vicia cassubica</i>		Recorded 2003
<i>Vicia cracca</i>	Tufted Vetch	Local
<i>Vicia faba</i>		Recorded
<i>Vicia hirsuta</i>	Hairy Vetchling	Near Vieste
<i>Vicia hybrida</i>	Hairy Yellow Vetchling	Various northern records
<i>Vicia incana</i>		Roadsides 2004
<i>Vicia lathyroides</i>	Spring Vetch	Pulsano Gorge
<i>Vicia lutea</i>	Yellow Vetch	South coast
<i>Vicia melanops</i>		Only at one site in the Carbonara Valley
<i>Vicia narbonensis</i>		Scattered in the north. 2002
<i>Vicia onobrychioides</i>	False Sainfoin	Scattered records
<i>Vicia peregrina</i>		Scattered records
<i>Vicia pubescens</i>		Near Peschici 2005
<i>Vicia sativa</i>	Common Vetch	Widespread and common

Oxalidaceae

<i>Oxalis pes-caprae</i>	Bermuda Buttercup	Locally dominant under olives in the north
<i>Oxalis articulata</i>		Northern coastal lowlands 2003

Geraniaceae

<i>Erodium botrys</i>		Passo Ingarano and North Coast
<i>Erodium ciconium</i>		Passo Ingarano
<i>Erodium cicutarium</i>	Common Stork's-bill	Widespread and common
<i>Erodium laciniatum</i>		Varano Island
<i>Erodium malacoides</i>	Mallow-leaved Stork's-bill	Widespread
<i>Erodium maritimum</i>		Near Peschici 2005
<i>Erodium moschatum</i>	Musk Stork's-bill	Recorded 2003
<i>Geranium columbinum</i>	Long-stalked Cranesbill	Near Peschici
<i>Geranium dissectum</i>	Cut-leaved Cranesbill	North coast
<i>Geranium lucidum</i>	Shining Cranesbill	Scattered throughout
<i>Geranium molle</i>	Dovesfoot Cranesbill	Widespread
<i>Geranium purpureum</i>	Little Robin	Scattered
<i>Geranium pyrenaicum</i>	Hedgerow Cranesbill	Recorded 2005
<i>Geranium robertianum</i>	Herb Robert	Widespread
<i>Geranium rotundifolium</i>	Round-leaved Cranesbill	Scattered
<i>Geranium sanguineum</i>	Bloody Cranesbill	Widespread but local
<i>Geranium tuberosum</i>	Tuberous Crane's-bill	Very local 2006

Linaceae

<i>Linum austriacum</i>		Locally common in the south. <i>Ssp.collinum</i> . Large blue flowers.
<i>Linum bienne</i>	Pale Flax	Scattered records
<i>Linum catharticum</i>	Purging Flax	Recorded 2003
<i>Linum strictum</i>	Upright Yellow Flax	Scattered – common by coasts. 2002
<i>Linum tenuifolium</i>		One in flower in Pulsano Gorge 2007
<i>Linum trigynum</i>		Near Manfredonia 2007

Euphorbiaceae

<i>Euphorbia aleppica</i>		North coast 2005
<i>Euphorbia amygdaloides</i>	Wood Spurge	Scattered in woods
<i>Euphorbia barrelieri</i>		Scattered in the south
<i>Euphorbia characias</i>	Large Mediterranean Spurge	Widespread and very common
<i>Euphorbia exigua</i>	Dwarf Spurge	Scattered
<i>Euphorbia falcata</i>		Recorded on one day
<i>Euphorbia helioscopia</i>	Sun Spurge	Widespread and common
<i>Euphorbia myrsinites</i>	Broad-leaved Glaucous Spurge	Chiancate
<i>Euphorbia paralias</i>	Sea Spurge	'Varano Island'

<i>Euphorbia peplus</i>	Petty Spurge	Scattered
<i>Euphorbia pinea</i>		Near Peschici
<i>Euphorbia spinosa</i>		Widespread on dry rocky turf
<i>Mercurialis annua</i>	Annual Mercury	Locally common in the north
<i>Mercurialis perennis</i>	Dog's Mercury	Local in woods
<i>Rutaceae</i>		
<i>Citrus aurantium</i>	Seville Orange	Cultivated in the north
<i>Citrus limon</i>	Lemon	Cultivated
<i>Ruta chalepensis</i>	Rue	Common near Vieste
<i>Meliaceae</i>		
<i>Melia azederach</i>	Persian Lilac	Noted in the north of the peninsula. 2002
<i>Polygalaceae</i>		
<i>Polygala flavescens</i>		Locally common in dry limestone turf
<i>Polygala monspeliaca</i>		Near Vieste and Pulsano
<i>Polygala nicaeensis</i>	Nice Milkwort	Noted in the south
<i>Polygala vulgaris</i>	Common Milkwort	Locally common
<i>Hippocastanaceae</i>		
<i>Aesculus hippocastanum</i>	Horse Chestnut	Recorded
<i>Anacardiaceae</i>		
<i>Pistacia lentiscus</i>	Mastic Tree	Widespread and common
<i>Pistacia terebrinthus</i>	Terebrinth	Scattered throughout
<i>Rhus coriaria</i>	Sumach	Noted in the north of the peninsula. 2003
<i>Aceraceae</i>		
<i>Acer campestre</i>	Field Maple	Widespread
<i>Acer opalus</i>	Italian Maple	Foresta Umbra 2002
<i>Acer monspessulanum</i>	Montpelier Maple	Chiancate
<i>Acer obtusatum</i>		Chiancate
<i>Acer pseudoplatanus</i>	Sycamore	Scattered records
<i>Rhamnaceae</i>		
<i>Paliurus spina-christi</i>	Christ's Thorn	Forming scrub on Passo Ingarano and elsewhere
<i>Rhamnus alaternus</i>	Mediterranean Buckthorn	Scattered records
<i>Rhamnus saxatilis</i>		Pulsano Gorge
<i>Vitaceae</i>		
<i>Vitis vinifera</i>	Grape	Widely cultivated
<i>Aquifoliaceae</i>		
<i>Ilex aquifolium</i>	Holly	In the Foresta Umbra and Bosco Quarto
<i>Tiliaceae</i>		
<i>Tilia platyphyllos</i>	Large-leaved Lime	Foresta Umbra
<i>Malvaceae</i>		
<i>Althaea hirsuta</i>	Rough Marsh-Mallow	Near Rignano 2006

<i>Lavatera cretica</i>	Smaller Tree-Mallow	Margherita Salt pans
<i>Lavatera arborea</i>	Tree Mallow	Locally common along the north coast
<i>Lavatera olbia</i>		Bari 2005
<i>Malva sylvestris</i>	Common Mallow	Widespread and common
<i>Malva neglecta</i>	Dwarf Mallow	Manfredonia etc.
<i>Malva parviflora</i>	Least Mallow	Manfredonia etc.

Thymelaeaceae

<i>Daphne laureola</i>	Spurge Laurel	Scattered in leaf in the Foresta Umbra and Bosco Quarto and around Monte St Angelo
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Violaceae

<i>Viola arvensis</i>	Field Pansy	Chiancate 2007
<i>Viola graeca</i>		= <i>V.heterophylla</i> . Widespread at higher levels. Both yellow and purple forms.
<i>Viola reichenbachiana</i>	Early Dog Violet	Local in woods
<i>Viola riviniana</i>	Common Dog Violet	Scattered in woods
<i>Viola suavis</i>		Bosco Quarto
<i>Viola tricolor</i>	Heartsease	Recorded 2004

Guttiferae

<i>Hypericum montanum</i>	Mountain St John's-Wort	Probably this species seen in leaf
<i>Hypericum perforatum</i>		Northern coastal lowlands, in bud
<i>Hypericum perforatum</i>	Perforate St John's-Wort	Scattered in leaf

Cistaceae

<i>Cistus creticus</i>		Locally common along the north coast and lower north-facing hills, with much already in flower this year
<i>Cistus monspeliensis</i>	Narrow-leaved Cistus	Locally common in the north of the peninsula
<i>Cistus salvifolius</i>	Sage-leaved Cistus	Locally common, as at Pulsano Gorge
<i>Fumana ericoides</i>		Pulsano Gorge
<i>Fumana thymifolia</i>	Thyme-leaved Fumana	Near Peschici 2007
<i>Helianthemum aegyptiacum</i>		Pulsano Road
<i>Helianthemum apenninum</i>	White Rockrose	Widespread in the south
<i>Helianthemum canum</i>	Hoary Rockrose	Common at one site along Pulsano Road
<i>Helianthemum lavandulaefolium</i>		Pulsano Sanctuary 2006
<i>Helianthemum nummularium</i>	Common Rockrose	Widespread
<i>Helianthemum salicifolium</i>	Willow-leaved Rockrose	Locally common

Tamaricaceae

<i>Tamarix gallica</i>	Tamarisk	By the beach near Peschici
<i>Tamarix africana</i>		Lake Lesina

Cucurbitaceae

<i>Bryonia dioica</i>		Above Carpino 2002
<i>Ecballium elaterium</i>	Squirting Cucumber	Margherita salt pans and near Peschici

Cactaceae

<i>Opuntia ficus-barbarus</i>	Prickly Pear	Widespread
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Myrtaceae

<i>Eucalyptus camaldulensis</i>	River Red Gum	Planted on 'Varano island'
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<i>Myrtus communis</i>	Common Myrtle	Scattered in the north
<i>Punicaceae</i>		
<i>Punica granatum</i>	Pomegranate	Cultivated along the northern coast
<i>Onagraceae</i>		
<i>Circaea lutetiana</i>	Enchanter's Nightshade	Common in leaf in woodlands
<i>Theligoniaceae</i>		
<i>Theligonium cynocrambe</i>		Widespread, e.g. Passo Ingarano
<i>Celastraceae</i>		
<i>Euonymus europaeus</i>	Spindle	Scattered in woodlands in the southern hills
<i>Cornaceae</i>		
<i>Cornus mas</i>	Cornelian Cherry	Recorded 2004
<i>Araliaceae</i>		
<i>Hedera helix</i>	Ivy	Local in woods
<i>Apiaceae</i>		
<i>Anthriscus sylvestris</i>	Cow Parsley	Noted in leaf Pulsano Road 2004
<i>Athamantha</i> sp.		Lake Lesina 2004
<i>Berula erecta</i>	Lesser Water Parsnip	Near Peschici 2005
<i>Bifora testiculata</i>		Scattered in southern hills 2002
<i>Caucalis platycarpus</i>	Small Bur Parsley	Foresta Umbra
<i>Chaerophyllum hirsutum</i>		Possibly this species seen in leaf
<i>Cnidium silaifolium</i>		Wetlands in the south
<i>Conium maculatum</i>	Hemlock	Possibly this species in flower on Chiancate 2007
<i>Conopodium capillifolium</i>		Cliffs around Peschici 2002
<i>Crithmum maritimum</i>	Rock Samphire	Lowlands south of Manfredonia etc.
<i>Daucus carota</i>	Wild Carrot	Other species possibly present
<i>Daucus</i> spp.		Leaves noted in northern dunes
<i>Echinophora spinosa</i>		Entire basal leaves noted in north
<i>Eryngium barrelieri</i>		Scattered in leaf
<i>Eryngium campestre</i>	Field Eryngo	Dunes and sandy shores along north coast, in leaf
<i>Eryngium maritimum</i>	Sea Holly	Widespread and locally abundant
<i>Ferula communis</i>	Giant Fennel	In leaf
<i>Foeniculum vulgare</i>	Fennel	Leaves noted 2003
<i>Laser trilobium</i>		Possibly this species seen in leaf 2006
<i>Laserpitium garganicum</i>		In leaf in the Carbonara Valley
<i>Opopanax hispidus</i>		Scattered
<i>Orlaya grandiflora</i>		In leaf
<i>Pimpinella saxifraga</i>	Burnet Saxifrage	In flower in Foresta Umbra and Bosco Quarto
<i>Sanicula europaea</i>	Sanicle	Locally common in the limestone turf in the southern hills. Has an aniseed aroma.
<i>Scandix australis</i>		Widespread and common
<i>Scandix pecten-veneris</i>	Shepherd's-needle	Pulsano Sanctuary, on the walls. ssp. <i>polyphyllum</i>
<i>Seseli montanum</i>		Noted near Vieste etc.
<i>Smyrniolum olusatrum</i>	Alexanders	

<i>Smyrniium perfoliatum</i>	Perfoliate Alexanders	Scattered records
<i>Thapsia garganica</i>		Widespread in leaf
<i>Tordylium apulum</i>	Tordylium	Widespread
<i>Tordylium officinale</i>		Scattered records
<i>Torilis japonica</i>		Noted near Vieste 2002
<i>Torilis nodosa</i>	Knotted Hedge Parsley	Vasca del Lago Salso 2002

Ericaceae

<i>Erica arborea</i>	Tree Heath	Very local, near Vico, and on roadsides on the northern slopes of the Carbonara Valley
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Primulaceae

<i>Anagallis arvensis</i>	Scarlet Pimpernel	Widespread, mostly the blue flowered form
<i>Anagallis foemina</i>		Recorded 2002
<i>Asterolinon linum-stellatum</i>		Scattered records. Very small!
<i>Cyclamen hederifolium</i>		Leaves widespread
<i>Cyclamen repandum</i>	Spring Sowbread	Widespread in woods in the north and centre of the peninsula, only a few left in flower this year

Plumbaginaceae

<i>Armeria canescens</i>		Above Carpino. 2002
<i>Limonium vulgare</i>	Common Sea-Lavender	Salt marshes at Margherita in leaf

Oleaceae

<i>Fraxinus ornus</i>	Manna Ash	Widespread in fine blossom
<i>Fraxinus excelsior</i>	Ash	Recorded
<i>Ligustrum vulgare</i>	Privet	Forming ground layer in Bosco Quarto
<i>Olea europea</i>	Olive	Widely cultivated along the north coast
<i>Phillyrea angustifolia</i>		Northern lowlands
<i>Phillyrea latifolia</i>		Peschici area

Apocynaceae

<i>Nerium oleander</i>	Oleander	Scattered along the north coast
<i>Vinca major</i>	Greater Periwinkle	Only at the Dolina Pozzatina

Asclepiadaceae

<i>Vincetoxicum hirundinaria</i>	Swallow-wort	Scattered on north-facing hills. 2002
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Gentianaceae

<i>Blackstonia perfoliata</i>	Yellow-wort	North coast, in leaf
<i>Centaureum erythraea</i>	Common Centaury	Noted on the Pulsano Road in leaf, one in flower near Peschici

Rubiaceae

<i>Asperula arvensis</i>	Blue Woodruff	One site in the Carbonara Valley
<i>Cruciata laevipes</i>	Cross-wort	Scattered
<i>Cruciata pedemontana</i>		Recorded 2003
<i>Cruciata glabra</i>		Carbonara Valley
<i>Galium aparine</i>	Cleavers	Scattered throughout
<i>Galium lucidum</i>		Recorded 2002
<i>Galium mollugo</i>	Hedge Bedstraw	Scattered records
<i>Galium murale</i>		North coast

<i>Galium odoratum</i>	Woodruff	Foresta Umbra
<i>Galium verum</i>	Lady's Bedstraw	In leaf
<i>Galium verrucosum</i>		Local
<i>Rubia peregrina</i>	Wild Madder	Peschici, in good flower
<i>Sherardia arvensis</i>	Sherardia	Widespread and common
<i>Valantia muralis</i>		Pulsano Road

Convolvulaceae

<i>Calystegia soldanella</i>	Sea Bindweed	North coast with one in flower
<i>Calystegia sylvatica</i>	Great Bindweed	Noted in the north
<i>Convolvulus arvensis</i>	Field Bindweed	Recorded 2006
<i>Convolvulus cantabrica</i>	Pink Convolvulus	Near Rignano 2007
<i>Convolvulus elegantissimus</i>	Mallow-leaved Bindweed	Also known a <i>Convolvulus althaeoides</i> subspecies <i>elegantissimus</i> . Widespread. Noted in the lowlands on both sides of the Peninsula. 2002
<i>Convolvulus lineatus</i>		
<i>Convolvulus siculus</i>	Small Blue Convolvulus	Hillsides 4km inland of Vieste, seen in 2006 for the first time since 2002
<i>Cuscuta epithymum</i>	Common Dodder	Scattered records in the north

Boraginaceae

<i>Alkanna tinctoria</i>	Dyer's Alkanet	Widespread and common
<i>Anchusa cretica</i>		Locally common, e.g. Bosco Quarto and Chiancate
<i>Anchusa italica</i>	Large Blue Alkannet	North coast
<i>Borago officinalis</i>	Borage	Locally common in the north
<i>Buglossoides arvensis</i>	Corn Gromwell	Carbonara Valley
<i>Buglossoides purpureoaeerulea</i>	Purple Gromwell	Locally common in woods
<i>Cerinthe major</i>	Honeywort	Locally common in the north
<i>Cynoglossum cheirifolium</i>		Near Rignano
<i>Cynoglossum creticum</i>	Blue Hound's-Tongue	Scarce near Peschici
<i>Echium italicum/asperrinum</i>	Pyramidal Bugloss	Last years flower spikes scattered throughout – one or both species present
<i>Echium parviflorum</i>	Small-flowered Viper's-Bugloss	Pulsano Gorge
<i>Echium plantagineum</i>	Purple Viper's-Bugloss	Widespread
<i>Echium vulgare</i>	Viper's-Bugloss	Recorded 2004
<i>Myosotis arvensis</i>	Field Forget-me-not	Scattered
<i>Myosotis ramosissima</i>	Early Forget-me-not	Scattered
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Local in woods
<i>Onosma echioides</i>		Pulsano Gorge etc.
<i>Pulmonaria vallarsae</i>		Scattered in woodlands
<i>Symphytum bulbosum</i>		Monte Nero 2006
<i>Symphytum tuberosum</i>	Tuberous Comfrey	Noted in the Bosco di Spina Pulci 2006

Verbenaceae

<i>Verbena officinalis</i>	Vervain	Recorded 2003
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Lamiaceae

<i>Acinos alpinus</i>	Alpine Basil-Thyme	Widespread and common
<i>Acinos arvensis</i>	Basil-Thyme	Recorded in the south, e.g. Pulsano Gorge
<i>Ajuga chamaepitys</i>	Ground Pine	Pulsano Gorge and Varano Island etc.
<i>Ajuga genevensis</i>	Blue Bugle	Above Carpino
<i>Ballota nigra</i>	Black Horehound	Noted in leaf
<i>Calamintha nepeta</i>	Lesser Calamint	Recorded 2003
<i>Clinopodium vulgare</i>	Wild Basil	Noted near Peschici 2003
<i>Corydothymus capitatus</i>		Pulsano Road, in leaf
<i>Lamium album</i>	White Deadnettle	Recorded 2003

<i>Lamium amplexicaule</i>	Henbit Deadnettle	Scattered records
<i>Lamium garganicum</i>	Large Red Deadnettle	Widespread, e.g on walls and cliffs around Monte St. Angelo
<i>Lamium hybridum</i>		Recorded
<i>Lamium maculatum</i>	Spotted Deadnettle	Scattered
<i>Lavandula angustifolia</i>		Recorded 2003
<i>Lycopus europaeus</i>	Gypsywort	Manfredonia wetlands 2003
<i>Marrubium incanum</i>		Leaves widespread
<i>Marrubium vulgare</i>	White Horehound	Leaves noted
<i>Melissa officinale</i>		Recorded. 2002
<i>Mentha arvensis</i>	Corn Mint	In leaf
<i>Micromeria graeca</i>		North coast. 2004.
<i>Origanum heracleoticum</i>		In leaf
<i>Origanum vulgare</i>	Marjoram	Leaves noted
<i>Phlomis herba-venti</i>		Leaves noted in the north
<i>Prasium majus</i>	Prasium	Local, e.g. near Peschici and Pulsano Gorge
<i>Prunella vulgaris</i>	Self Heal	In leaf
<i>Rosmarius officinalis</i>	Rosemary	Cliffs south of Monte St. Angelo
<i>Salvia argentea</i>	Silver Sage	Widespread in leaf, and in late bud this year
<i>Salvia horminioides</i>		Passo Ingarano 2002
<i>Salvia officinalis</i>	Sage	In leaf
<i>Salvia verbenacea</i>	Wild Clary	Widespread and common
<i>Salvia verticillata</i>	Whorled Clary	Scattered
<i>Satureja hortensis</i>	Summer Savory	Pulsano Road 2004
<i>Satureja montana</i>	Winter Savory	Scattered records
<i>Sideritis romana</i>		Pulsano Gorge
<i>Sideritis syriaca</i>		= <i>S.italica</i> . Very advanced this year with a few even in flower.
<i>Stachys cretica</i>		Widespread in the north with several already in flower
<i>Stachys officinalis</i>	Betony	In leaf
<i>Stachys sylvatica</i>	Hedge Woundwort	Hills above Carpino. 2002
<i>Teucrium chamaedrys</i>	Wall Germander	In leaf
<i>Teucrium polium</i>	Felty Germander	In leaf in the north
<i>Thymus pulegioides</i>	Large Thyme	Scattered
<i>Thymus vulgaris</i>		Pulsano Gorge
 <i>Solanaceae</i>		
<i>Hyoscyamus albus</i>	Henbane	In flower on the walls of Pulsano Sanctuary and the tower near Peschici
<i>Solanum nigrum</i>	Black Nightshade	Near Peschici
<i>Solanum sodomium</i>	Apple of Sodom	Noted near Peschici
<i>Datura stramonium</i>	Thornapple	Previous years' fruiting plants by Lake Lesina 2005
 <i>Buddlejaceae</i>		
<i>Buddleja davidii</i>	Buddleja	Scattered – naturalised or planted
 <i>Scrophulariaceae</i>		
<i>Antirrhinum siculum</i>	Sicilian Snapdragon	Common along roads in the north
<i>Bellardia trixago</i>	Bellardia	Widespread in leaf
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	On walls at Pulsano Sanctuary
<i>Digitalis ferruginea</i>	Rusty Foxglove	Scattered in leaf
<i>Euphrasia pectinata</i>	an Eyebright	Pulsano Gorge
<i>Linaria pelisseriana</i>	Jersey Toadflax	Passo Ingarano and Ruggiano
<i>Linaria purpurea</i>	Purple Toadflax	Passo Ingarano 2002
<i>Linaria simplex</i>		Scattered records 2004
<i>Linaria vulgaris</i>	Common Toadflax	Near Peschici 2007

<i>Misopates orontium</i>		Pulsano Gorge 2006
<i>Parentucellia latifolia</i>	Southern Red Bartsia	Locally abundant in the hills
<i>Parentucellia viscosa</i>		Scattered in leaf
<i>Scrophularia canina</i>	French Figwort	Scattered records, several in flower
<i>Scrophularia peregrina</i>	Nettle-leaved Figwort	Carbonara Valley 2006
<i>Scrophularia vernalis</i>		Noted in leaf
<i>Verbascum densiflorum</i>		Roadsides
<i>Verbascum lychnitis</i>	White Mullein	Near Sannicandro. 2002
<i>Verbascum phlomooides</i>	Orange Mullein	Scattered localities in the north of the peninsula
<i>Verbascum phoeniceum</i>	Purple Verbascum	Common on Passo Ingarano
<i>Verbascum pulverulentum</i>		Recorded
<i>Verbascum sinuatum</i>		In leaf
<i>Verbascum thapsus</i>	Aaron's Rod	North Coast
<i>Veronica arvensis</i>	Wall Speedwell	Walls in Foresta Umbra
<i>Veronica beccabunga</i>	Brooklime	In a pond high in the Foresta Umbra 2002
<i>Veronica chamaedrys</i>	Germander Speedwell	Foresta Umbra
<i>Veronica cymbalaria</i>	White Speedwell	Scattered 2006
<i>Veronica hederifolia</i>		Near Peschici 2005
<i>Veronica montana</i>	Wood Speedwell	Spina Pulci 2003
<i>Veronica persica</i>	Persian Speedwell	Scattered records
<i>Veronica polita</i>		Bosco Quarto 2004
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Foresta Umbra 2002

Orobanchaceae

<i>Orobanche amethystea</i>		On <i>Eryngium campestre</i> , noted on one day
<i>Orobanche caryophyllacea</i>	Clove-scented Broomrape	Beside the north coast road, parasitic on <i>Galium</i>
<i>Orobanche gracilis</i>		Several in Pulsano Gorge, on legumes
<i>Orobanche lavandulacea</i>		On <i>Psoralea bituminosa</i> , near Peschici
<i>Orobanche loricata</i>	Oxtongue Broomrape	Probably this species on the last day
<i>Orobanche minor</i>	Common Broomrape	Local in the south
<i>Orobanche pubescens</i>		Probably this species on the first day
<i>Orobanche ramosa</i>	Branched Broomrape	Scattered records, e.g. Pulsano Gorge

Globulariaceae

<i>Globularia punctata</i>		Monte Nero and Chiancate
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Plantaginaceae

<i>Plantago afra</i>		Widespread
<i>Plantago arenaria</i>		Scattered
<i>Plantago coronopus</i>	Buck's-horn Plantain	North coast
<i>Plantago lagopus</i>		Widespread
<i>Plantago lanceolata</i>	Ribwort Plantain	Scattered throughout
<i>Plantago major</i>	Greater Plantain	Local
<i>Plantago serraria</i>		Locally frequent particularly in the north
<i>Plantago subulata</i>		Chiancate

Caprifoliaceae

<i>Lonicera caprifolium</i>		Bosco Quarto
<i>Lonicera etrusca</i>		In leaf
<i>Lonicera implexa</i>		North coast, in flower
<i>Lonicera xylosteum</i>	Fly Honeysuckle	Bosco Quarto in leaf
<i>Sambucus ebulus</i>	Dwarf Elder	Noted in the north of the peninsula, in leaf
<i>Sambucus nigra</i>	Elder	Recorded

Valerianaceae

<i>Centranthus ruber</i>	Red Valerian	Locally common on roadsides
<i>Valeriana collina</i>		Locally common in limestone turf in the south
<i>Valerianella dentata</i>		Scattered in the north
<i>Valerianella locusta</i>		Widespread. Other species possibly present.

Dipsacaceae

<i>Cephalaria transylvanica</i>		Passo Ingarano in bud
<i>Dipsacus fullonum</i>	Wild Teasel	Last years' dead seed heads in Carbonara Valley
<i>Scabiosa columbaria</i>	Small Scabious	Margherita Salt pans
<i>Scabiosa dallaportae</i>		In leaf along Pulsano Gorge, with one very early flower this year

Campanulaceae

<i>Campanula erinus</i>		Pulsano Gorge
<i>Campanula garganica</i>		Endemic. In good flower this year in Pulsano Gorge and near Peschici.
<i>Campanula rapunculoides</i>	Creeping Bellflower	Passo Ingarano. 2002
<i>Campanula trachelium</i>	Nettle-leaved Bellflower	Foresta Umbra. 2002
<i>Legousia hybrida</i>		Dolina Pozzatina 2006

Asteraceae

<i>Achillea millefolium</i>	Yarrow	In leaf
<i>Anacyclus tomentosus</i>		Recorded 2003
<i>Anthemis altissima</i>		Possibly this species at Margherita
<i>Anthemis arvensis</i>	Corn Chamomile	Scattered
<i>Anthemis cotula</i>	Stinking Chamomile	Scattered records
<i>Anthemis maritima</i>		Noted along the north coast, in flower
<i>Anthemis praecox</i>		Possibly this species in Pulsano Gorge
<i>Anthemis tinctoria</i>	Yellow Chamomile	Noted from the north of the peninsula 2003
<i>Artemisia arborescens</i>		Roadside near Peschici
<i>Artemisia campestris</i>	Field Wormwood	Recorded in the south
<i>Aster tripolium</i>	Sea Aster	In flower at Lake Lesina
<i>Bellis annua</i>	Annual Daisy	Vasca del Lago Salso 2002
<i>Bellis perennis</i>	Daisy	Widespread
<i>Bellis sylvestris</i>	Southern Daisy	Widespread
<i>Calendula arvensis</i>	Field Marigold	Scattered
<i>Carduus acicularis</i>		Widespread
<i>Carduus macrocephalus</i>		Widespread in flower this year
<i>Carduus pycnocephalus</i>		Recorded in the north
<i>Carlina corymbosa</i>		Scattered old flowering heads
<i>Carlina vulgaris</i>		Old flowering heads widespread
<i>Centaurea calcitrapa</i>	Red Star Thistle	Scattered records in leaf
<i>Centaurea jacea</i>	Brown Knapweed	Scattered 2003
<i>Centaurea melitensis</i>		In leaf
<i>Centaurea nicaeensis</i>		Recorded in bud at Manfredonia
<i>Centaurea sostitialis</i>	Yellow Star Thistle	Peschici area 2002
<i>Centaurea triumfetti</i>		In flower on Chiancate 2007
<i>Chrysanthemum coronarium</i>	Crown Daisy	Scattered, northern lowlands and Margherita
<i>Chrysanthemum segetum</i>		Noted in the north
<i>Cichorium intybus</i>	Chicory	Roadsides in the south
<i>Cirsium arvense</i>	Creeping Thistle	Scattered
<i>Conyza canadensis</i>		North coast
<i>Crepis rubra</i>	Pink Hawksbeard	Widespread throughout

<i>Crepis vesicaria</i>		Noted in the south
<i>Crepis</i> spp.		Several other species not identified
<i>Crupina crupinastrum</i>		Widespread, Several in flower this year.
<i>Cynara cardunculus</i>	Cardoon	In leaf near Peschici 2005
<i>Dittrichia viscosa</i>		Scattered in leaf
<i>Doronicum columnae</i>		Rockfaces in the southern hills
<i>Doronicum orientale</i>		Widespread in woods
<i>Evax pygmaea</i>		Pulsano Gorge and near Peschici
<i>Filago pyramidata</i>	Broad-leaved Cudweed	Pulsano Gorge
<i>Galactites tomentosa</i>		Widespread
<i>Hedynois rhagadioloides</i>		Local
<i>Helichrysum italicum</i>		Near Peschici 2005
<i>Helichrysum stoechas</i>		Widespread
<i>Hieracium</i> spp.		Various species not identified
<i>Hyoseris radiata</i>		Scattered
<i>Hypochoeris achyrophorus</i>	Mediterranean Cat's-ear	Scattered
<i>Inula crithmoides</i>	Golden Samphire	In leaf on north coast
<i>Inula graveolens</i>	Stink Aster	Scattered in salt marshes and coastal areas
<i>Inula verbascifolia</i>		In leaf along Pulsano Road
<i>Jurinea mollis</i>		In bud at Chiancate 2006
<i>Lapsana communis</i>	Nipplewort	Recorded
<i>Matricaria chamomilla</i>		Coastal areas 2003
<i>Otanthus maritimus</i>	Cottonweed	North coast, in leaf.
<i>Pallenis spinosa</i>		Scattered
<i>Phagnalon graecum</i>		Noted near Vieste. 2002
<i>Phagnalon rupestre</i>		Cliffs at Monte St Angelo
<i>Picris echioides</i>	Bristly Ox-Tongue	Scattered records
<i>Reichardia picroides</i>		Scattered in the north
<i>Rhagadiolus edulis</i>		Noted in the north 2005
<i>Rhagadiolus stellatus</i>	Star Hawk-bit	Near Peschici and Pulsano Gorge
<i>Scorzonera hirsuta</i>		Widespread and locally common
<i>Scorzonera laciniata</i>		Scattered records in the south
<i>Senecio rupestris</i>		Probably this species in Carbonara Valley
<i>Senecio tenorei</i>		Chiancate
<i>Senecio vulgaris</i>	Groundsel	Scattered
<i>Silybum marianum</i>	Milk Thistle	Scattered throughout
<i>Sonchus arvensis</i>	Field Sow-Thistle	Near Peschici
<i>Sonchus asper</i>	Prickly Sow-thistle	Widespread
<i>Sonchus oleraceus</i>	Smooth Sow-Thistle	Scattered records
<i>Sonchus tenerrimus</i>		Scattered records
<i>Taraxacum officinale</i>	Dandelion	Scattered
<i>Tragopogon australis</i>		= <i>T. sinuatus</i> . Scattered. Purple flowers much exceeded by the bracts.
<i>Urospermum dalechampi</i>		Widespread
<i>Urospermum picroides</i>		Recorded 2003
<i>Xanthium strumarium</i>	Rough Cocklebur	Noted in damp lowland areas 2006

Monocotyledons

Lemnaceae

Lemna minor Common Duckweed Pools at 100 Dolinas

Liliaceae

Allium neapolitanum Naples Garlic Local along the north coast
Allium nigrum Noted in the north of the peninsula. 2002
Allium pendulinum Locally common in hill woods
Allium roseum Rosy Garlic Local, e.g. near Vieste
Allium sphaerocephalum Round-headed Leek Noted between Manfredonia and Bari. 2002
Allium subhirsutum Scattered, locally common.
Allium ursinum Ramsons Foresta Umbra, in flower this year
Asparagus acutifolius Widespread
Asparagus maritimus Salt Marshes at Margherita Salt pans 2002
Asparagus tenuifolius Recorded 2003
Asphodeline lutea Yellow Asphodel Widespread throughout and locally common
Asphodeline liburnica Noted in leaf at various sites
Asphodelus albus White Asphodel In flower on Monte Nero 2007
Asphodelus fistulosus Hollow-stemmed Asphodel Common and widespread
Asphodelus microcarpus Widespread and very common
Bellevalia romana 1 near Peschici 2005
Colchicum cupanii Noted in seed 2005
Gagea foliosa Possibly this species in Bosco Quarto 2005
Lilium bulbiferum Orange Lily Leaves in Bosco Quarto
Muscari commutatum Passo Ingarano
Muscari comosum Tassel Hyacinth Widespread
Muscari neglectum Widespread and reasonably common
Ornithogalum collinum Scattered records
Ornithogalum divergens Widespread in the north
Ornithogalum montanum Scattered, mostly in the southern hills
Ornithogalum pyrenaicum Bath Asparagus Noted in the Carbonara Valley 2002
Ornithogalum umbellatum Star-of-Bethlehem Scarce in the north
Polygonatum multiflorum Bosco Quarto 2006
Polygonatum odoratum Bosco Quarto
Ruscus aculeatus Butcher's Broom Scattered records
Scilla bifolia 1 on Chiancate 2005
Smilax aspera Scattered – quite common in the north
Tulipa sylvestris Wild Tulip Locally abundant in the Carbonara Valley, many arable fields 'full' of tulips, although all had gone over this year
Urginea maritima Sea Squill Widespread in leaf

Agavaceae

Agave americana Century Plant In the north.

Amaryllidaceae

Galanthus nivalis Snowdrop Leaves seen in Foresta Umbra 2002
Narcissus poeticus Pheasant's-eye Daffodil Locally common in the hills
Narcissus tazetta Polyanthus Narcissus Chiancate, but none still in flower this year
Pancratium maritimum Sea Daffodil Leaves noted at several north coast localities

Dioscoraceae

Tamus communis Black Bryony Scattered

Iridaceae

Gladiolus communis Manfredonia area
Gladiolus italicus Field Gladiolus Very scarce this year
Crocus longiflorus In leaf at Chiancate and in Bosco Quarto, 2006
Hermodactylus tuberosus Widow Iris Widespread but all in seed this year
Iris bicapitata A good colony of this endemic species south of Carpino, both yellow and purple flowered forms usually, but all had gone over this year
Iris foetidissima Gladdon In fruit and leaf in Foresta Umbra
Iris germanica Scattered by roadsides etc.
Iris lutescens Widespread and locally abundant – this iris is usually purple, although a few yellow flowered forms seen near Ruggiano
Iris pseudacorus Yellow Flag Vasca del Lago Salso, in fine flower
Iris pseudopumila Widespread and common. None in flower 2007!
Gynandiris sisyrinchium Barbary Nut Seen on Day 3, 2005.
Romulea bulbocodium Just 1 on Chiancate 2006

Palmae

Phoenix dactylifera Date Palm Noted in the north

Araceae

Arisarum vulgare Friar's Cowl Near Peschici 2006
Arum italicum Italian Lords-and-Ladies Widespread

Juncaceae

Luzula campestris Field Woodrush Carpino area etc.
Luzula pilosa Hairy Woodrush Scattered records in centre of peninsula
Luzula forsteri Narrow-leaved Woodrush Foresta Umbra
Juncus acutus Sharp Rush Margerita area
Juncus littoralis Lake Lesina
Juncus maritimus Sea Rush Margherita saltmarshes

Poaceae

Aegilops geniculata Passo Ingarano
Ammophila arenaria Marram-grass North coast dunes
Ampelodesmos mauretanicus North coast lakes etc.
Anisantha diandra Great Brome Scattered
Anisantha madritensis Compact Brome Pulsano Gorge
Anthoxanthum odoratum Sweet Vernal-grass Widespread and very common
Arundo donax Giant Reed Locally common
Avena barbata Bearded Wild-oat Local
Avena fatua Common Wild-oat Scattered
Briza maxima Large Quaking-grass Locally very common
Bromus hordeaceus Soft Brome Scattered
Bromus madritensis Compact Brome Pulsano Gorge
Bromus rigidus Stiff Brome
Catapodium maritimum Darnel-fescue North coast dunes
Catapodium rigidum Fern-grass Scattered in the north
Dactylis glomerata Cock's-foot Widespread and frequent

<i>Elytiglia farcta</i>	Sand Couch	North coast dunes
<i>Festuca gigantea</i>	Giant Fescue	Scattered
<i>Festuca rubra</i>	Red Fescue	Near Carpino
<i>Hordeum hystrix</i>		Margherita saltmarshes
<i>Hordeum murinum</i>	Wall Barley	Locally abundant
<i>Lagurus ovatus</i>	Hare's-tail	Scattered
<i>Lolium perenne</i>	Perennial Rye-grass	Scattered
<i>Melica nutans</i>	Mountain Melick	Near Peschici
<i>Phleum pratense</i>	Timothy	Scattered
<i>Phragmites australis</i>	Reed	Forming extensive beds on lake shores
<i>Poa annua</i>	Annual Meadow-grass	Widespread and common
<i>Poa bulbosa</i>	Bulbous Meadow-grass	Viviparous. Common.
<i>Poa compressa</i>	Flattened Meadow-grass	Local
<i>Poa pratensis</i>	Smooth Meadow-grass	Scattered
<i>Stipa capensis</i>	Mediterranean Needle-grass	Locally dominant
<i>Stipa pennata</i>		this species in the Vieste area?

Cyperaceae

<i>Carex caryophylla</i>	Spring Sedge	Widespread in grassland
<i>Carex flacca</i>	Glaucous Sedge	Locally common in grassland
<i>Carex sylvatica</i>	Wood Sedge	Scattered records
<i>Eleocharis palustris</i>	Common Spike-rush	Recorded
<i>Schoenus nigricans</i>	Black Bog-rush	Lake Lesina

Orchidaceae

<i>Aceras anthropophorum</i>	Man Orchid	Widespread and common – probably the finest range of colours and sizes anywhere in Europe! Seen on 7 days.
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	The usual colony near Vieste was in fine flower and we saw the species at several other new sites this year due to the early season
<i>Barlia robertiana</i>	Giant Orchid	Widespread. 2006:- many had finished flowering, but 1 still in flower at Dolina Pozzatina, and some 20 in San Giovanni Rotundo. 2007:- only a few dead spikes seen.
<i>Cephalanthera damasium</i>	White Helleborine	2 in fine flower, near Vico del Gargano
<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	1 in fine flower in Foresta Umbra
<i>Dactylorhiza maculata</i>		2006:- 2 in fine flower near Chiancate
<i>Dactylorhiza romana</i>	Roman Orchid	2007:- only in leaf and bud
<i>Dactylorhiza sambucina</i>	Elder-flowered Orchid	Noted in the Bosco di Spina Pulci, several above Carpino and as quite common in the Foresta Umbra and Bosco Quarto. All of the yellow form.
<i>[Epipactis helleborine]</i>	Broad-leaved Helleborine	Small numbers in the Bosco Quarto and Monte Nero areas.
<i>Epipactis microphylla</i>	Small-leaved Helleborine	Leaves seen near Vico del Gargano 2003]
<i>Himantoglossum hircinum</i>	Lizard Orchid	Leaves seen near Vico del Gargano
<i>Limodorum abortivum</i>	Violet Bird's-nest	1 in good flower in San Giovanni Rotundo, a few in bud elsewhere
<i>[Listera ovata]</i>	Common Twayblade	Several seen near Vico, all only early shoots
<i>Neotinea intacta</i>	Dense-flowered Orchid	Leaves and early shoots of possibly this species at Monte Nero 2006]
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	5 near Carpino, 1 on Chiancate, and 2 at Monte Nero. More seen than ever before here.
		Old seed heads noted in hill forests, and

<i>Ophrys apulica</i>	Apulian Ophrys	2 in flower in Bosco Quarto. Endemic. This fine large and bright flowered species seen near Peschici and near Vieste. Also found in the hills in the south. Noted on 2 days.
<i>Ophrys archipelagi</i>		This odd bee orchid was formerly included in the ' <i>arachnitiformis</i> ' species complex. Still little understood. Only 1 on Passo Ingarano, with most already over this year.
<i>Ophrys bertolonii</i>	Bertoloni's Ophrys	A very beautiful species. Quite common around Monte St Angelo where often grew with the following species. Quite a number seemed close to the ' <i>saratoi</i> ' form with a pink-hued speculum. Seen on 5 days.
<i>Ophrys bertoloniiformis</i>		Endemic. Quite common around Monte St Angelo and elsewhere in the southern hills. Seen on 3 days.
<i>Ophrys bilunulata</i>		Just one seen, near the Carbonara Valley. This should probably now be called <i>Ophrys lupercalis</i> .
<i>Ophrys biscutella</i>	Spectacle Ophrys	Endemic to southern Italy. Noted in small numbers at several localities in the hills in the north of the peninsula – and rather commoner in places in the south – always very local though. Varies greatly in basic colouration but pattern always distinctive.
<i>Ophrys bombyliflora</i>	Bumble-Bee Orchid	Widespread but scarce this year. Seen near Peschici and along Ruggiano Road.
<i>Ophrys funerea</i>	Dull Ophrys	Very scarce. A few near Carbonara Valley, and 2 along Pulsano Road.
<i>Ophrys garganica</i>	Gargano Ophrys	Endemic to Southern Italy. Widespread and often very common. Noted on 5 days. A vast colony of very robust specimens along the Pilgrim's Road near Monte St Angelo were particularly fine. Remarkably not seen until day 5 this year!
<i>Ophrys incubacea</i>	Dark Ophrys	Rather common and widespread though often in low numbers.
<i>Ophrys lutea</i>	Yellow Bee Orchid	Very similar to <i>O.sicula</i> and <i>O.phryganae</i> – but a lot larger in flower. The three are perhaps questionably separate. Scattered.
<i>Ophrys oestriifera</i>		Nominate subspecies. Noted from near Peschici only – c.5 plants. (<i>O.cornuta</i>)
<i>Ophrys parvimaculata</i>	Small-patterned Ophrys	Endemic. A distinctive rather pastel-shaded species. Several on Passo Ingarano.
<i>Ophrys phryganae</i>		Widespread and reasonably common.
<i>Ophrys promontorii</i>		Endemic. Quite common in the hills around Monte St Angelo.
<i>Ophrys sicula</i>		Locally very common – and noted on most days.
<i>Ophrys sipontensis</i>	Siponto Ophrys	A very rare local endemic. Mostly gone over this year, along the Ruggiano Road
<i>Ophrys sphegodes</i>	Early Spider Orchid	Scattered. Rather uncommon. Seen on 2 days.
<i>Ophrys tenthredinifera</i>	Sawfly Orchid	Widespread and locally common
<i>Ophrys virescens</i>		Very local on Chiancate. 6 plants seen.
<i>Ophrys bertolonii x promontorii</i>		Probably this hybrid along the Pulsano Road
<i>Ophrys bertolonii x tenthredinifera</i>		Probably this species along Pulsano Road, several fine plants

<i>Ophrys promontorii</i> x <i>sipontensis</i>		Probably this hybrid along the Ruggiano Road
[<i>Orchis collina</i> <i>Orchis fragrans</i>	Fan-lipped Orchid Fragrant Bug Orchid	Common at one site 2005.] Some 15 in fine flower near Vieste, not seen there since 2003. Also one in Pulsano Gorge.
<i>Orchis italica</i> <i>Orchis lactea</i>	Naked Man Orchid Milky Orchid	Widespread and very common. Seen daily. Only along the Pulsano Road near Monte St Angelo where only one in bud, mostly over.
<i>Orchis morio</i>	Green-winged Orchid	Widespread – very common in the hills. Seen almost daily.
<i>Orchis picta</i>		The Mediterranean vicariant of Green-winged Orchid and perhaps doubtfully distinct. A few plants noted on 2 days.
<i>Orchis papilionacea</i>	Pink Butterfly Orchid	Widespread and often very abundant. Swarms of thousands seen in some localities in the northern hills. Seen daily.
<i>Orchis pauciflora</i>	Sparse-flowered Orchid	Locally common on Chiancate where some unusually robust specimens were perhaps some of the most beautiful orchids of the holiday.
<i>Orchis provincialis</i>	Provence Orchid	Very scarce. Seen only in the northern part of Foresta Umbra, where only 1 in flower.
<i>Orchis purpurea</i>	Lady Orchid	Widespread in very small numbers – noted on 5 days.
<i>Orchis quadripunctata</i>	Four-spotted Orchid	Locally frequent on dry southern slopes. Many exceptional specimens especially along the Pilgrim's Road near Monte St Angelo.
<i>Orchis tridentata</i>	Toothed Orchid	Seen at more sites than ever this year due to the early season. Found on 5 days.
<i>Orchis ustulata</i>	Burnt-tip Orchid	Widespread though usually in small numbers – though quite common in places along the Pulsano Road, Monte St Angelo.
<i>Orchis morio</i> x <i>papilionacea</i>		Not uncommon where the two parents grew together
[<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	A number of plants seen in bud or leaf in the Bosco Quarto and in the Foresta Umbra. Not seen in 2004, 2005, 2006 or 2007.]
<i>Serapias apulica</i>	Apulian Serapias	Endemic to Southern Italy. Seen beside the Motorway near Manfredonia, where most over this year!
[<i>Serapias cordigera</i>		Noted along the North Coast. Not in 2004, 2005, 2006 or 2007.]
<i>Serapias lingua</i> <i>Serapias parviflora</i> <i>Serapias orientalis</i>	Tongue Orchid Small-flowered Serapias	Widespread and common this year Only at two northern sites A very robust specimen at Manfredonia Wetlands
<i>Serapias vomeracea</i>	Plough-share Serapias	Widespread – the commonest tongue orchid. Some fine tall specimens seen.
[<i>Serapias laxiflora</i>		Seen at one site near Rignano 2006]

Systematic List Number 2 Butterflies

The taxonomy and systematic order follows that found in ‘Butterflies of Britain and Europe’, a Harper Collins guide, by Tolman. The early season produced more species than any previous year.

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Widespread in small numbers, e.g. Passo Ingarano and North Coast. Seen on 4 days.
Scarce Swallowtail	<i>Iphiclides podalirius</i>	Scattered records, seen on 4 days
Southern Festoon	<i>Zerynthia polyxena</i>	Rather scarce this year, singletons only in Spina Pulci and along Pulsano Road

Pieridae

Large White	<i>Pieris brassicae</i>	Widespread in small numbers
Small White	<i>Artogeia rapae</i>	Widespread in small numbers
[Green-veined White	<i>Artogeia napi</i>	Scattered records 2006]
[Southern Small White	<i>Artogeia manni</i>	4 near Pulsano Sanctuary. 2005]
[Mountain Small White	<i>Artogeia ergane</i>	1 near Carbonara Valley, on <i>Aethionema saxatile</i> , a new Gargano record? 2005]
[Eastern Bath White	<i>Pontia edusa</i>	Scattered records. 2005]
Eastern Dappled White	<i>Euchloe ausonia</i>	North coast and changeover day
Orange-Tip	<i>Anthocharis cardamines</i>	Widespread in small numbers
Clouded Yellow	<i>Colias crocea</i>	Widespread in small numbers
Berger’s Clouded Yellow	<i>Colias alfacariensis</i>	Several along the Pulsano Road
Cleopatra	<i>Gonepteryx cleopatra</i>	Noted on two days
Brimstone	<i>Gonepteryx rhamni</i>	Scattered records
Wood White	<i>Leptidea sinapis</i>	Noted on two days

Lycaenidae

Green Hairstreak	<i>Callophrys rubi</i>	Scattered records, e.g. near Peschici. Seen on 3 days
Small Copper	<i>Lycaena phlaeas</i>	1 on day 5
Little Blue	<i>Cupido minimus</i>	Widespread in small numbers
Holly Blue	<i>Celastrina argiolus</i>	Scattered records
Green-underside Blue	<i>Glaucopsyche alexis</i>	Small numbers on 4 days
Baton Blue	<i>Pseudophilotes baton</i>	Passo Ingarano and Pulsano Gorge
Brown Argus	<i>Aricia agestis</i>	A few records along Pulsano Road
Chapman’s Blue	<i>Agrodiaetus thersites</i>	Pulsano Road and Ruggiano Road, where common
Adonis Blue	<i>Lysandra bellargus</i>	Noted on two days
Common Blue	<i>Polyommatus icarus</i>	Scattered records

Nymphalidae

[Large Tortoiseshell	<i>Nymphalis polychloros</i>	1 in Bosco Quarto and 1 on Chiancate 2006]
Painted Lady	<i>Cynthia cardui</i>	Locally common as on the first day near Peschici
Red Admiral	<i>Vanessa atalanta</i>	Seen on two days
Queen-of-Spain Fritillary	<i>Issoria lathonia</i>	1 on Chiancate
Glanville Fritillary	<i>Melitaea cinxia</i>	Several new colonies found due to the early season
Spotted Fritillary	<i>Melitaea didyma</i>	1 in Pulsano Gorge was a new record for us in the Gargano
Heath Fritillary	<i>Mellicta athalia</i>	Rather widespread as larvae, on <i>Plantago</i> , but also found on some very odd plants such as <i>Iris</i> .
Marsh Fritillary	<i>Euphydryas aurinia</i>	1 on Chiancate was the first we had ever seen in the Gargano and may be a new record for the promontory

Satyridae

Small Heath	<i>Coenonympha pamphilus</i>	Widespread and locally common
Wall Brown	<i>Lasiommata megera</i>	Widespread and rather common
Speckled Wood	<i>Pararge aegeria</i>	Local in woods

Hesperiidae

Grizzled Skipper	<i>Pyrgus malvae</i>	Scattered records
Rosy Grizzled Skipper	<i>Pyrgus onopordae</i>	Pulsano Road
Red Underwing Skipper	<i>Spialia sertorius</i>	1 near Vieste
Mallow Skipper	<i>Carcharodus alceae</i>	Scattered records, near Peschici and Pulsano
Dingy Skipper	<i>Erynnis tages</i>	1 on Chiancate

Systematic List Number 3 Birds

The taxonomy and order of the following list largely follows Voous (1977, List of Recent Holarctic Bird Species).

Little Grebe	<i>Tachybaptus ruficollis</i>	2 at Lake Lesina
Great Crested Grebe	<i>Podiceps cristatus</i>	Lake Lesina and Margherita salt pans
Cormorant	<i>Phalacrocorax carbo</i>	1 only at Manfredonia wetlands
Greater Flamingo	<i>Phoenicopterus phoenicopterus</i>	1,000's at the Margherita Salt pans
Little Bittern	<i>Ixobrychus minutus</i>	1 on Varano 'island'
Night Heron	<i>Nycticorax nycticorax</i>	c.40 roosting at Manfredonia
Squacco Heron	<i>Ardeola ralloides</i>	5 at Lake Lesina and a few at Manfredonia
Little Egret	<i>Egretta garzetta</i>	Manfredonia wetlands
Great Egret	<i>Egretta alba</i>	A few at Lake Lesina and Manfredonia
Purple Heron	<i>Ardea purpurea</i>	c.10 at Manfredonia wetlands, several on the roads
White Stork	<i>Ciconia ciconia</i>	Released birds nesting at Manfredonia but also at least one wild bird there too
Spoonbill	<i>Platalea leucorodia</i>	c.8 in the Margherita area
Greylag Goose	<i>Anser anser</i>	Several at Manfredonia, some with young
Shelduck	<i>Tadorna tadorna</i>	Margherita Salt pans
Mallard	<i>Anas platyrhynchos</i>	Manfredonia
Shoveler	<i>Anas clypeata</i>	2 at Manfredonia
Ferruginous Duck	<i>Aythya nyroca</i>	2 at Manfredonia
Buzzard	<i>Buteo buteo</i>	Widespread in low numbers – noted on 4 days
Marsh Harrier	<i>Circus aeruginosus</i>	Several at Lake Lesina and Manfredonia
Montagu's Harrier	<i>Circus pygargus</i>	A female over fields near Lesina the evening we arrived
Lesser Kestrel	<i>Falco naumanni</i>	Noted on two days
Kestrel	<i>Falco tinnunculus</i>	Widespread. Noted on 5 days.
Red-footed Falcon	<i>Falco vespertinus</i>	An estimated 150 over the fields and reed beds at Manfredonia
Quail	<i>Coturnix coturnix</i>	Heard near Dolina Pozzatina and one flushed along Pulsano Road
Water Rail	<i>Rallus aquaticus</i>	Heard at Lake Lesina
Coot	<i>Fulica atra</i>	Numerous on Lake Lesina and at Margherita
Oystercatcher	<i>Haematopus ostralegus</i>	3 on the shore at Margherita
Black-winged Stilt	<i>Himantopus himantopus</i>	Numerous at the Margherita Salt pans
Avocet	<i>Recurvirostra avosetta</i>	Many at Margherita Salt pans
Little Ringed Plover	<i>Charadrius dubius</i>	1 at Lake Lesina
Kentish Plover	<i>Charadrius alexandrinus</i>	Several at Margherita Salt pans

Little Stint	<i>Calidris minutus</i>	A few at Margherita Salt pans
Curlew Sandpiper	<i>Calidris ferruginea</i>	A few at Margherita Salt pans
Dunlin	<i>Calidris alpina</i>	Margherita Salt pans, mostly in breeding plumage
Ruff	<i>Philomachus pugnax</i>	Several at Margherita Salt pans
Spotted Redshank	<i>Tringa erythropus</i>	A few at Margherita Salt pans
Common Redshank	<i>Tringa totanus</i>	A few at Margherita Salt pans
Greenshank	<i>Tringa nebularia</i>	A few at Margherita Salt pans
Wood Sandpiper	<i>Tringa glareola</i>	A few at Margherita Salt pans and 1 at Lake Lesina
Common Sandpiper	<i>Actitis hypoleuca</i>	A few at Margherita Salt pans and 1 at Lake Lesina
Mediterranean Gull	<i>Larus melanocephalus</i>	4 adults at Margherita Salt pans
Yellow-legged Herring Gull	<i>Larus cachinnans</i>	Widespread and locally numerous
Slender-billed Gull	<i>Larus genei</i>	Several at Margherita Salt pans
Little Tern	<i>Sterna albifrons</i>	2 at Margherita Salt pans
White-winged Tern	<i>Chlidonias leucopterus</i>	3+ at Manfredonia wetlands
Rock Dove	<i>Columba livia</i>	Widespread near habitation
Wood Pigeon	<i>Columba palumbus</i>	Widespread in small numbers
Collared Dove	<i>Streptopelia decaocto</i>	Scattered in the north. Noted on 5 days.
Cuckoo	<i>Cuculus canorus</i>	Heard often
Swift	<i>Apus apus</i>	Widespread and common
Pallid Swift	<i>Apus pallidus</i>	Scattered records
Bee-eater	<i>Merops apiaster</i>	Heard over the hotel on the first evening, and seen well near Vieste the following day
Hoopoe	<i>Upupa epops</i>	Scattered records, with some fine views, and often heard
Green Woodpecker	<i>Picus viridis</i>	Heard several times in the forested hills, and seen once
Great Spotted Woodpecker	<i>Dendrocopus major</i>	2 in the Bosco Quarto, and heard elsewhere
Lesser Spotted Woodpecker	<i>Dendrocopus minor</i>	2 seen very well near Chiancate
Crested Lark	<i>Galerida cristata</i>	Widespread and reasonably common
Woodlark	<i>Lullula arborea</i>	Heard only this year
Skylark	<i>Alauda arvensis</i>	Margherita
Swallow	<i>Hirundo rustica</i>	Widespread and common
House Martin	<i>Delichon urbica</i>	Daily around the hotel in the north
Tawny Pipit	<i>Anthus campestris</i>	1 on the beach near Peschici
Grey-headed Wagtail	<i>Motacilla flava cinereocapilla</i>	c.100 on arable fields near Peschici
White Wagtail	<i>Motacilla alba</i>	Widespread. Noted on 4 days.
Wren	<i>Troglodytes troglodytes</i>	Scattered records. Heard often.
Northern Wheatear	<i>Oenanthe oenanthe</i>	Females on beach near Peschici and in Carbonara Valley.
Black-eared Wheatear	<i>Oenanthe hispanica</i>	2 males near Borgo Celano
Blue Rock Thrush	<i>Monticola solitarius</i>	A male seen twice atop the tower near Peschici
Whinchat	<i>Saxicola rubetra</i>	A male at Manfredonia wetlands
Stonechat	<i>Saxicola torquata</i>	Scattered in the south
Robin	<i>Erithacus rubecula</i>	Seen on 3 days, heard on others
Nightingale	<i>Luscinia megarhynchos</i>	Heard on several days
Blackbird	<i>Turdus merula</i>	Scattered records
Song Thrush	<i>Turdus philomelos</i>	Heard in the Pulsano Gorge
Cetti's Warbler	<i>Cettia cetti</i>	Heard often
Fan-tailed Warbler	<i>Cisticola juncidis</i>	North coast and Margherita
Great Reed Warbler	<i>Acrocephalus arundinaceus</i>	Seen at Lake Lesina and Vasco di Lago Salso
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Heard at Lake Lesina
Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	Seen at Manfredonia wetlands
Sardinian Warbler	<i>Sylvia melanocephala</i>	Widespread and reasonably common
Subalpine Warbler	<i>Sylvia cantillans</i>	Widespread in small numbers

Lesser Whitethroat	<i>Sylvia curruca</i>	100 Dolinas
Blackcap	<i>Sylvia atricapilla</i>	Widespread and reasonably common
Chiffchaff	<i>Phylloscopus collybita</i>	Heard occasionally
Firecrest	<i>Regulus ignicapillus</i>	Heard occasionally
Bearded Tit	<i>Panurus biarmicus</i>	Seen well at Lake Lesina and heard at Manfredonia
Blue Tit	<i>Parus caeruleus</i>	Widespread in wooded hills
Great Tit	<i>Parus major</i>	Widespread. Noted almost daily.
Nuthatch	<i>Sitta europaea</i>	Widespread in woodlands
Penduline Tit	<i>Remiz pendulinus</i>	Seen well at Lake Lesina
Golden Oriole	<i>Oriolus oriolus</i>	Heard only this year, at various sites in the south
Magpie	<i>Pica pica</i>	Very common. Noted daily.
Jay	<i>Garrulus glandarius</i>	Widespread and reasonably common
Jackdaw	<i>Corvus monedula</i>	Scattered, locally common
Hooded Crow	<i>Corvus corone cornix</i>	Widespread. Noted daily.
Italian Sparrow	<i>Passer domesticus italiae</i>	Widespread. Noted daily.
Tree Sparrow	<i>Passer montanus</i>	Lake Lesina
Chaffinch	<i>Fringilla coelebs</i>	Widespread and reasonably common
Serin	<i>Serinus serinus</i>	Widespread in small numbers
Greenfinch	<i>Carduelis chloris</i>	Scattered records
Goldfinch	<i>Carduelis carduelis</i>	Widespread and common
Linnnet	<i>Carduelis cannabina</i>	Only on one day in the south
Corn Bunting	<i>Miliaria calandra</i>	Widespread
Cirl Bunting	<i>Emberiza cirlus</i>	Scattered records, not uncommon

Systematic List Number 4

Italian Hybrid Frog	<i>Rana kl.hispanica</i>
[Green Toad	<i>Bufo viridis</i>
[European Pond Terrapin	<i>Emys orbicularis</i>
[Moorish Gecko	<i>Tarentola mauretanic</i>
Green Lizard	<i>Lacerta trilineata</i>
Italian Wall Lizard	<i>Podarcis sicula</i>
Italian Three-toed Skink	<i>Chalcides chalcides</i>
[Slow Worm	<i>Anguis fragilis</i>
Western Whip Snake	<i>Coluber viridiflavus</i>
[Four-lined Snake	<i>Elaphe quatuorlineata</i>
Aesculapian Snake	<i>Elaphe longissima</i>
[Grass Snake	<i>Natrix natrix</i>
[Dice Snake	<i>Natrix tessellata</i>
[Southern Smooth Snake	<i>Coronella girondica</i>
[Asp Viper	<i>Vipera aspis</i>

Amphibians and Reptiles

Manfredonia wetlands, Lake Lesina and
Camping Viola and numerous at 100
Dolinas
Heard only. 2005]
Lake Lesina. 2004]
Pulsano and Margherita. 2002]
Scattered records, often crossing roads
Widespread and reasonably common
Hillside near Vieste and Borgo Celano
1 in Carbonara Valley, and Pulsano Road.
2004.]
Above Carpino and one on Passo Ingarano
A fine example at Lake Lesina caught by
Stefano 2006]
A road casualty near Dolina Pozzatina
100 Dolinas 2005]
1 in a pond at 100 Dolinas 2006]
Peschici and Passo Ingarano 2006]
One dead at Passo Ingarano. 2003]

Systematic List Number 5

Western Hedgehog	<i>Erinaceus europaeus</i>
Roman Mole	<i>Talpa romana</i>
Beech Marten	<i>Martes foina</i>
[Fox	<i>Vulpes vulpes</i>
[Badger	<i>Meles meles</i>
Red Squirrel	<i>Sciurus vulgaris</i>
Savi's Pine Vole	<i>Pitymys savii</i>
[Edible Dormouse	<i>Glis glis</i>
[Hare	<i>Lepus europaeus</i>

Mammals

Road casualties
Hills common and a dead animal in Foresta
Umbra
One approached very close outside the
Hotel Rotary. 2001. 2007 two road
casualties
One road casualty. 2005]
One seen by Stefano and PGC near Carpino
before the groups arrived. 2001]
Pinecones eaten by, north coast.
Burrows noted
A road casualty near Peschici. 2005]
Carbonara Valley. 2005]