

The Gargano

Italy's Secret Garden

A Greentours Tour Report

20th to 29th April 2015

Led by Paul Cardy and Stefano Doglio

Daily Reports and Systematic Lists by Paul Cardy

Day 1 Monday 20th April

Arrival and transfer to Gargano

Having travelled from Corsica via Sardinia and then Rome I had arrive the previous day in Bari. The group arrived there on schedule and we were soon on our way north towards the Gargano peninsula, initially the journey taking us across the extensive agricultural Tavoliere plain, roadsides yellow with *Chrysanthemum coronarium*. A few kilometres north of Bari a small flock of Ring-necked Parakeets flew across the road in exactly the same spot I'd seen the species several times in the past. The journey was uneventful through mainly olive plantations, and a motorway service station provided an atypically unattractive but convenient spot in which to eat lunch, Italian Sparrows in attendance.

There was some way north to travel along the quiet motorway, but having left that our route took us east along the north coast of the Gargano peninsula, the roadside verges colourful with flowers. Montagu's Harrier, probably two birds, were seen as we drove.

We made a welcome and productive stop at our traditional *Paeonia peregrina* site, where this striking plant was in perfect flower this year. Pink Butterfly Orchids were much in evidence, with several Green-winged Orchids. The attractive umbellifer *Tordylium apulum* was a feature, in flower and fruit, as was Large Mediterranean Spurge, *Medicago disciformis* was identified, and there were many *Ornithogalum divergens* in flower.

Italian Wall Lizards basked on rocks, Wall Brown was the first butterfly seen, and Southern Festoon was still on the wing here. Bird activity was rather limited, but Sardinian Warblers were active in the scrub. There were fine views down to the coast, Lake Lesina, and the Isole Tremiti. Hairy Hawker was on the wing, seen here also the previous year when apparently a new record for the peninsula, surely only due to lack of dragonfly recorders.

Back in the vehicles we continued east, through Rodi Garganico, and to our first hotel on the north coast, amid olive groves. Stefano was there to meet us. Having settled in, we enjoyed our first dinner and looked forward to the tour ahead.

Day 2 Tuesday 21st April

Peschici and Vieste areas

Fine weather again today as we headed east to a beach site near Peschici where the partly forested slopes behind the dunes support a wealth of plants. 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*.

This year a feature was the number of attractive legumes in both flower and fruit in what was basically a parking area below the slope we had come to explore. Here were *Tetragonolobus maritimus*, *Lotus edulis*, *Lotus ornithopodioides*, *Medicago polymorpha*, *Securigera securidaca*, *Coronilla cretica*, and *Coronilla scorpioides*.

The white *Cistus monspeliensis* and pink *Cistus creticus* bloomed on the slopes behind the beach. Most of the *Orchis papilionacea* here were starting to go over, but several of the striking *Ophrys apulica* remained in fine condition. Tongue Orchids were represented by *Serapias vomeracea*, *Serapias lingua* and *Serapias parviflora*. There were Bumblebee Orchids and various representatives of the yellow bee orchid complex, and a very fine Man Orchid. After a little searching we found the hoped for *Ophrys cornuta* but unusually only one plant today, where usually there are several. This is one of the few sites in the Gargano for this species and we did not see it again.

A feature this year was several species in bloom that are hardly ever at this time, among them *Hypericum perforatum*, *Centaureum erythraea*, and *Centaurea alba*.

Among the many other plants here were *Coronilla emerus*, *Buglossoides purpureocaerulea*, *Prasium majus*, and *Trifolium stellatum*. The lovely *Crepis rubra* was commonly in flower, with red flowered *Anthyllis vulneraria*, *Fumaria capreolata*, *Urospermum dalechampii*, *Dorycnium hirsutum*, *Allium subhirsutum*, and *Arum italicum* adding to the great floral variety of our first main stop. I was pleased to find the wiry grass *Parapholis incurva*.

Yellow-legged Gulls were numerous along the coast, and Sardinian Warblers called from the mastic scrub, and we occasionally glimpsed them. Among butterflies on the wing were Eastern Dappled White, Green Hairstreak, Holly Blue, Swallowtail, and Wall Brown. The weeds attracted us with among the many species here mostly blue, but also some red, Scarlet Pimpernel, Mallow-leaved Stork's-bill, and Buck's-horn Plantain. Several Italian Wall Lizards were active in the sunshine.

A nearby Napoleonic tower had much of the endemic *Campanula garganica*, but surprisingly this year only one plant with any flowers at all! There was however much *Antirrhinum siculum* in flower, White Henbane, and *Matthiola incana*.

Our usual olive grove lunch site was being ploughed as we arrived, but before they went under the soil we saw *Nigella damascena*, *Hedypnois rhagadioloides*, and *Orobanche ramosa*. So another more suitable picnic site was found further to the east, peaceful apart from the cow bells, with many fine cyclamen in flower, and much more purple gromwell.

A somewhat longer drive east took us to near Vieste, where we saw many Pyramidal Orchids in fine flower, although we would see this species at several other sites this year. *Ophrys incubacea* was also here, Tassel Hyacinths were numerous, and there was a lot of Rosy Garlic. There were several *Orobanche pubescens*, and *Convolvulus pentapetaloides* was a pleasing find. A female Montagu's Harrier was in the air and Woodchat Shrike was perched. Green-underside Blue was on the wing. Among the many other flowers were *Onobrychis aequidentata* and *Scorzonera hirsuta*.

At the last stop of the day was a good selection of *Ophrys*, which were much examined and photographed.

We arrived back at the hotel with time for a rest, or paperwork, before enjoying dinner in the restaurant.

Day 3 Wednesday 22nd April Passo Ingarano, Dolina Pozzatina and Spina Pulci

We enjoyed superb weather all day. Heading west, we drove towards the Passo Ingarano, arriving after about an hour. This used to be one of the most productive orchid sites on the whole peninsula but grazing pressure and encroaching thorny scrub over the last few years have made it less so, but it is still an important site to visit. Today in fact was very productive for all sorts of things. We parked in an impressive 'forest' of Giant Fennel.

We spent the whole morning exploring the hillsides here and found much of interest. A ploughed field had much *Legousia hybrida*, with several white flowered examples, a species only seen a few times on the tour before. Having accessed a stony slope we immediately started to see orchids, with widespread species such as *Ophrys bombyliflora*, *Orchis italica* and *Orchis papilionacea*. Higher up were a few of the southern Italian endemic *Ophrys parvimaclulata* in fine flower, and the Adriatic endemic *Ophrys archipelagi* also still in flower this year.

The yellowish mounds of *Euphorbia spinosa* were a feature, the lovely purple flowered *Verbascum phoeniceum* was particularly fine, and *Vicia benghalensis* was in good bloom. *Paliurus spina-christi* provided a rather prickly scrub covered hillside, spreading ever further across the lower slopes. The *Iris lutescens* were in fine flower, all of the purple form. Among the other plants here were *Lathyrus cicera*, *Helianthemum salicifolium*, *Parentucellia latifolia*, and *Scorzonera hirsuta*. Subalpine Warblers were active in the scrub, and Corn Buntings called from prominent perches. Alpine Swifts, and a dark phase Booted Eagle, flew over. Butterflies included Brimstone, Eastern Dappled White, and Baton Blue.

Land snails are a feature of these limestone slopes. *Pomatias elegans* was attractive; *Rumina decolata* had a characteristic truncated shell; members of the Clausilidae represented a very large family; and a large Vitrinid shell, a glass snail, was characteristically light.

I started turning over stones and soon located the the small scorpion *Buthus occitanus*. In a bush was a fine pair of Green Lizards, very large and strikingly coloured, which all the group managed to approach and photograph.

Back near the vehicles a coincidence occurred as Mark found a Fox moth larva at just the same time I spotted a fox (mammal not moth!), down by the railway line.

It was time to leave this productive site, and we drove a few kilometres 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 which we set out in the back of the vehicle whilst the group admired the verdant dolina, surprisingly an arable field on its floor. Here the *Paeonia mascula* was in fine form this year, thankfully having survived the seemingly unnecessary weed killing on the verges.

Nearby was a large meadow coloured pink by the masses of *Orchis morio* and *Orchis papilionacea*, with some hybrids between the two, and many Sawfly Orchids. On the road was a dead Western Whip Snake. The peonies here (*mascula* again) were also in flower, as was much *Fragaria moschata*.

Next we headed up a minor road to the beautiful oak-hop hornbeam woodland of the Bosco di Spina Pulci, where the trees had just burst into leaf and were a startlingly fresh green. 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*, *Narcissus poeticus* still in flower, and *Doronicum orientale*. A highlight was several fine specimens of *Ophrys biscutella*, several *Ophrys garganica*, and several yellow *Dactylorhiza romana* here this year. The diminutive *Asterolinon linum-stellatum* was common and *Aphanes inexpectata* was numerous for those who appreciate the tiniest of plants. *Vicia grandiflora*, *Saxifraga bulbifera*, *Bellis sylvestris*, and *Muscari commutatum* were noted too. The foodplant of Southern Festoon, *Aristolochia longa*, was rather common. Nuthatch, Green Woodpecker, and Great-spotted Woodpecker called.

Again after dinner we met for a run through of the flora we had seen so far.

Day 4 Thursday 23rd April Lake Varano, Lake Lesina, and Cagnano and Carpino

Today we headed west along the northern shores of the peninsula. Having negotiated the strange deserted resort town of Lido del Sole, our first stop was a sandy track that leads down over a bridged channel and to the coast. Along the sides of the path patches of beautiful deep blue were

provided by *Alkanna tinctoria*. The typical sand dune species *Silene colorata*, *Silene conica* and *Lotus cytisoides* were common, whilst Myrtle, *Phillyrea angustifolia* and Mediterranean Buckthorn were among the shrubs. White Mignonette was here, and Sweet Alison was common. The *Acacia cyanophylla* was in impressive flower and the grass *Lagurus ovatus* was very attractive. On the dunes was a fine flora including Sea Holly, Sea Medick, Cottonweed, *Anthemis maritima* (much in flower), *Ononis variegata*, Sea Spurge and Sea Bindweed, and the spiky leaves of *Echinophora spinosa* were found. Pelicans-foot, *Aporrhais pespelicani* was among the shells on the beach. The lovely *Cyperus capitatus* was here too and *Cladium mariscus* was added to the plant list. There were many pine cones showing Red Squirrel feeding activity.

Green Frogs (Italian Hybrid Frogs) rasped continuously whilst Cetti's Warbler periodically gave its explosive song.

A little further along a wider sandy track again took us down to the shore. *Verbascum phlomoides* and *Cistus salvifolius* were in flower, and *Lonicera implexa* and *Dorycnium hirsutum* were growing in the dunes. We again reached the beach and had a look at the typical flora. Sanderling was on the shore.

Next we drove west to Lake Lesina, reaching the northern shores, and walked down to the fringing reed beds, where there followed some good birding.

There were several Little Egrets, and on the lake were many Coots. Black-winged Stilts fed in the shallows, whilst Marsh Harriers hunted over the reeds. Squacco Herons were seen very well, and a Pygmy Cormorant was a significant record this year. Penduline Tits were seen superbly well gathering nesting material from the reeds. The photographers spent much time as the birds returned regularly with nesting material and added it to their nest in the tamarisks.

On the lake were a few Little and Great Crested Grebes, Ferruginous Ducks and Pochard. Water Rail called from the reeds and Zitting Cisticolas performed display flights.

Lunch was eaten a little further west, where was a typical salt marsh flora here. Several Lesser Kestrels were here, and Common Kingfisher was seen.

In the afternoon we headed inland, initially above Cagnano. We then drove along the periphery of the Bosco Quarto where the flowers were stunning, a taster of what we would see in a few days time. A stop was prompted by some fine yellow-flowered *Cachrys* in early flower on one short stretch of roadside, new for the tour.

The next stop was to look for Dense-flowered Orchid at one of the few sites where it it may already be in flower at this time, where if do we find it at all it's usually only one plant. Searching today yielded just one, in late bud. *Viola graeca* was here in both purple and yellow forms, and *Viola suavis* was found too. *Cruciata laevipes*, *Aremonia agrimonioides*, *Lamium garganicum* and *Ranunculus millefoliatus* were all in bloom, and there were several Lady Orchids.

The last stop of the day had *Iris bicapitata*, and our first *Ophrys promontorii*, and a good selection of other orchids.

Day 5 Friday 24th April Transfer to Monte St. Angelo via Foresta Umbra

Practicalities sorted we said our farewells at the hotel near Rodi and headed south, driving inland across the peninsula of the Gargano, to our next hotel, in Monte St. Angelo. Clear blue skies again greeted us today. Our first scheduled stop was to admire what for several years has been a fine show of Lady Orchids under an olive grove. The obsessive chemical spraying of roadsides had spread to most of the olive groves but one area was still untouched, with a large colony of simply superb spikes of this most impressive orchid. We spent some time with them.

Once through the town of Vico we reached the northern edge of the Foresta Umbra. With areas comprising various woodland communities, here beautiful beech woodland, we stopped to search for various woodland orchids. We found a few of the rare (here) *Orchis provincialis* in flower, young spikes of *Epipactis*, and *Cephalanthera damasonium* in leaf. There was a good population of *Erica arborea* at the bottom of the slope, with which *Orchis provincialis* often grows. Sanicle was in bloom on the forest floor. The forest was alive with birdsong. Butterflies included Scarce Swallowtail, Brimstone, Cleopatra, and Green Hairstreak.

The next stop took us to the small visitor centre of the Foresta Umbra, where a little museum displays a large number of stuffed local animals (mammals, birds, butterflies, moths, a few amphibians and reptiles), and the small shop has a reasonable selection of publications and postcards. 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. We ate lunch at one of the many picnic tables provided in the forest, under the shade of Wych Elms. Nearby were many typical woodland plants including *Cardamine chelidonia*, Ramsons, Northern Bedstraw, Woodruff, Male Fern, Hard and Soft Shield Ferns, and Black Spleenwort. A robust white flowered rubiaceous herb was *Asperula taurina*. Wood White was on the wing.

Once out of the forest a stop among open fields yielded many *Orchis morio* including a white example, and Lizard Orchids were in early bud. White Rockrose and *Euphorbia barrelieri* were new to us.

Nearing Monte St. Angelo we made a stop at an orchid rich site where we saw *Ophrys bertoloniformis* and *Ophrys bertolonii* for the first time. *Linum austriacum* was in fine flower and there were more advanced Lizard Orchids. The *Bellis sylvestris* here was rather tall, and Tree Heath was a feature of the roadsides in the area.

We arrived at the hotel in Monte St. Angelo late afternoon and settled into our very comfortable rooms. As we drove through town we saw the purple *Aubrieta columnae*, white *Arabis alpina*, the

pink *Lamium garganicum*, and the yellow *Doronicum columnae* in flower on the rocks. Dinner was enjoyed in the good hotel restaurant.

**Day 6 Saturday 25th April Ruggiano Road, Villa Rosa, and
Margherita Saltpans**

Again under clear blue skies we set out on a varied day. Monte St. Angelo was already busy with visitors on what would obviously be an extremely busy day, this being a national holiday as well as a weekend. Whilst the group enjoyed the flowers at the first stop I drove Stefanie back to the hotel to get her forgotten telescope. At this first stop there was a selection of the commoner orchids, and the highlight a slightly going over *Ophrys sipontensis* at a new site for this most special endemic. There were pale blue patches of *Linum austriacum* and several *Iris pseudopumila*.

At the next slope there were many more fine irises, and we again heard Golden Oriole. The sun brought out many butterflies, particularly in one sheltered gully, among them Swallowtail, Eastern Dappled White, Brimstone, Small Copper, and Chapman's Blue. An ascelaphid, *Libelloides coccajus* was flying here. *Linaria pelisseriana* was found, and there were quite a number of ophrys including *Ophrys promontorii*, *Ophrys bertolonii*, *Ophrys biscutella* and several hybrids.

Next we visited our main site for the very local endemic *Ophrys sipontensis*, where some were in fine flower this year, although most plants showed some degree of hybridisation. Also here the close proximity of *Ophrys bertolonii* and *Ophrys bertoloniiiformis* to one another allowed the two to be compared. *Potentilla hirta* was in leaf and there were also a few Burnt-tip Orchids. A man gathering asparagus was keen to have his photo taken.

A viewpoint stop yielded fine views of Manfredonia and Siponto down on the plains. Blue Rock Thrush and Black-eared Wheatear were both here. In leaf on the cliffs was the endemic *Centaurea subtilis*, and *Tyrimnus leucographus* was added to the plant list. Among the many butterflies was the very special Italian Marbled White, and Moorish Geckos basked on the rocks.

We set out the picnic in a beautiful olive grove near the locked gates of a interesting large ruined house, which showed an eclectic range of architectural styles, with a selection of associated follies and outbuildings. One of our targets here was again Italian Marbled White, which was however elusive this year. There was however a fine selection of insect life generally, many nectaring on the impressive Giant Fennel in particular.

Back on the road we drove south to the extensive series of working saltpans at Margherita where we soon saw the first of very many Flamingos, and we had some fine close sightings. Three Spoonbills were seen well, and among the waders were Oystercatcher, Black-winged Stilts, Ruff, Kentish Plover, Wood Sandpiper, Greenshank, and Spotted Redshank. Pygmy Cormorant was here, and there were a few Garganey on the water.

The area usually holds some surprises and today four Red-breasted Merganser were new for the tour. Several Lesser Kestrels were in the air and one area had many Red-footed Falcons on and around the wires. There was even a Squacco Heron on a wire too!

A feature of the site is the Slender-billed Gulls, in fully developed pink-flushed breeding plumage, and many were here today. Mediterranean Gulls were in breeding plumage, but only seen in flight this year. Shelduck were much in evidence, and there were a few Avocets. The flora included typical saltmarsh species such as *Arthrocnemum macrostachya*, *Suaeda vera* and *Camphorosma monspeliaca*. Cream-spot Tiger was admired.

At the southern most point of our excursion Stefano left us to spend a couple of days exploring further south. We meanwhile headed back to Monte St. Angelo via an exciting series of hairpin bends.

Day 7 Sunday 26th April

Pulsano Road and Gorge

A local day today, spent exploring the very productive Pulsano Road that leads from Monte St. Angelo to the sanctuary of the same name which overlooks a gorge where the road ends. The weather was again superb.

Orchids are a feature of the area, and very many were seen today. *Ophrys bertolonii*, *Ophrys bertoloniformis*, *Ophrys promontorii*, *Ophrys tenthredinifera*, *Ophrys garganica*, and *Ophrys sicula* were all in fine form, although the *Orchis lactea*, new to us, was already over this year. Common species such as Man Orchid, *Orchis italica* and *Orchis morio* were numerous. At one site was a particularly fine patch of *Orchis quadripunctata*, and there were several Lady Orchids. The hybrid *Orchis italica* x *Aceras anthropophorum* was very impressive, and there were a number of ophrys hybrids including *Ophrys tenthredinifera* x *Ophrys promontorii*.

We saw a good number of butterflies today. At the first site were a remarkable number of Chapman's Blues, whilst Little Blues, Baton Blue, Green-underside Blue, and Adonis Blue were seen during the day. *Arabis verna* was in attractive flower in one shady spot and among new plants were *Astragalus monspessulanus*, *Scandix australis*, *Valantia muralis* and *Valeriana collina*. The woolly leaves of *Salvia argentea* were very attractive. Lifting stones yielded another impressive *Scolopendra* centipede, and communal masses of larvae of the lackey moth *Malacosoma franconicum* were numerous in the area.

Cuckoo was seen, and singing Subalpine Warblers displayed. Queen of Spain and Glanville Fritillaries were both on the wing.

At an attractive shady picnic site were *Helianthemum canum*, *Ophrys lupercalis* new to us, and a rather eclectic selection of abandoned books.

Early afternoon saw us visiting the Pulsano sanctuary from where 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*, *Fumaria parviflora*, *Capparis spinosa* and *Cymbalaria muralis*, although many of the plants had been destroyed by an extensive 'clean up' of the site, and the sanctuary was closed this year.

Setting out on the gentle track that leads along the side of the gorge, the rocks supported three endemic plants. *Campanula garganica* had a few fine flowers, *Scabiosa dallaportae* was surprisingly not even in bud, whilst the *Inula verbascifolia* blooms much later. *Chamaecytisus spinescens* and *Onosma echioides* were both very attractive. There were some impressive broomrape spikes, *Orobanche caryophyllacea*, parasitising *Galium*. Several *Ophrys apulica* were located, and Early Spider Orchid, *Ophrys sphegodes*, was in flower. *Silene subconica* was seen. A highlight was a few *Serapias orientalis*, and addition to the orchid list.

This has always been one of my favourite sites of the tour, but sadly it has been somewhat 'improved' and the whole path lined with a fence, and interpretation boards about the plants installed. A commendable thing but sadly most of the plants described are not close to where the boards have been positioned, and for those who don't know the plants there is little chance of locating them.

Eastern Bath Whites, Eastern Dappled White, Berger's Clouded Yellow, Cleopatra, Comma, and Mallow Skipper, were flying.

A highlight was a superb Four-lined Snake, a large individual on a vertical cliff, and on our return walk was a mating pair that we saw superbly. Several Moorish Geckos scuttled into shelter as we walked.

Day 8 Monday 27th April

Bosco Quarto and Chiancate

Today, once we had left the 'main' road we saw almost nobody at all during our time in the beautiful Bosco Quarto, and very few vehicles on Chiancate either. As we left Monte St. Angelo we admired the cliffs covered in *Aubrietia columnae*, *Arabis alpina*, *Doronicum columnae*, and *Lamium garganicum*, but the rosettes of *Campanula garganica* were not in flower.

Fine irises and quite a selection of orchids featured at the first stop.

At a site for *Paeonia mascula* a few were in reasonable bloom. A roadside rock garden held many *Narcissus poeticus*, abundant *Anemone apennina*, *Ophrys sphegodes*, and *Saxifraga carpetana*.

Now in the woods, there were many fine *Dactylorhiza romana*. Among the many other woodland plants were Spurge Laurel, *Stellaria holostea*, *Dorycnium orientale* and *Cardamine graeca*. Much searching at first failed to locate any Bird's-nest Orchids (only a few old spikes), sometimes in good flower at this time, but as we drove away I spotted some from the vehicle. A bonus was some fine morels. The woodland bird song was a constant soundtrack.

At another stop the woodland floor was covered in privet, among which grew *Polygonatum multiflorum*, *Pulmonaria vallisarsae*, *Allium pendulinum*, *Anemone apennina*, *Viola suavis*, and *Viola riviniana*. Blackcaps sang continuously.

It was time for lunch which I prepared at one of the many deserted picnic areas. The *Gagea chrysantha* was in flower this year.

An arable field had many *Corydalis cava* in flower this year, but the *Paeonia mascula* here was in bud. There was also fine *Iris lutescens* and our first *Euphorbia myrsinites*, surely one of the most striking plants of the tour.

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, with many in flower. This is the only known site for the diminutive *Ophrys virescens* on the peninsula, and I was pleased to find some forty five of them today. Several more fine Elder-flowered Orchids were located. There was much more *Euphorbia myrsinites*, and *Alyssum minus*, amid a fine selection of species already familiar to us. The *Narcissus tazetta* was all in fruit already this year. The limestone hills made an impressive backdrop. Butterflies today included Southern Fестoon, Orange-tip, Little Blue, and Wall Brown.

**Day 9 Tuesday 28th April Monte Nero, Borgo Celano, Cento
Pozzi, and
Manfredonia**

Our last day in the field saw us visiting a mixed selection of sites. Initially we headed a little further west to start a leisurely walk up Monte Nero, which today would take most of the morning. 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 many Elder-flowered Orchids, and *Dactylorhiza maculata* was in leaf. Lesser-spotted Woodpecker called, and Blackcaps sang. There were fine views of the extensive surrounding woodland, with scattered exposed limestone outcrops on the hill tops. Among the many plants here were *Aristolochia longa*, *Anemone pavonina*, *Ranunculus millefoliatus*, *Saxifraga bulbifera*, *Viola heterophylla*, and *Anchusa cretica*. *Symphytum bulbosum* and White Asphodel were new species for the tour. After much searching I located *Plantago subulata* and there was much *Laserpitium garganicum* in leaf. There were a few *Globularia punctata* in flower and *Senecio tenorei* was in bud. Near Borgo Celano we saw several *Serapias vomeracea* and Burnt-tip Orchids, as well as a selection of *Ophrys*.

Our last picnic was eaten in the Cento Pozzi dolina where the ponds supported the usual Italian Hybrid Frogs and Italian Crested Newts. I had been dismayed at the amount of litter at this site in previous years, discarded by thoughtless visitors, but thankfully the last couple of years there has been almost none. Subalpine Warbler and Nightingale sang throughout our visit. Stefano re-joined us here for the last day of the tour. The last site of the tour was near Manfredonia, where

the highlight of several fine *Serapias apulica* was an ideal finish to the trip. There was also a selection of other interesting Mediterranean plants.

Day 10 Wednesday 29th April To Bari and Departure

We said our farewells to Monte St. Angelo and descended to the plains, via the Ruggiano road, to Foggia, then taking the autostrada south to Bari. We reached the airport exactly at the intended time, and there said our fond farewells.

Gargano Systematic Lists 2015

Compiled by Paul Cardy

Itinerary

Day 1. 20th April. Arrival. Transfer to Rodi Garganico. *Paeonia peregrina* site.

Day 2. 21st April. Beach near Peschici, sites west of Vieste.

Day 3. 22nd April. Passo Ingarano, Dolina Pozzatina, Bosco di Spina Pulci.

Day 4. 23rd April. Varano Island, Lake Lesina, sites above Carpino and Cagnano.

Day 5. 24th April. Vico, Foresta Umbra, Carbonara Valley, Monte St. Angelo.

Day 6. 25th April. Carbonara Valley, Ruggiano Road, Villa Rosa, Margherita salt pans.

Day 7. 26th April. Pulsano road and gorge.

Day 9. 27th April. Carbonara Valley. Bosco Quarto. Chiancate.

Day 10. 28th April. Monte Nero, Borgo Celano, Cento Pozzi, *Serapias apulica* site.

Day 10. 29th April. To Bari and departure.

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. Even after 15 years or so of tours here we continue to add new species to the list. Species seen for the first time this year are annotated 2015. A number of works are used for taxonomy and nomenclature, although in general the system of Flora Europaea is followed. ‘An Annotated Checklist of the Italian Vascular Flora’ by Conti et al, 2005, is invaluable. ‘Bestimmungsschlüssel zur Flora des Gargano’ by Wolfgang Licht, 2008, is a good flora for those who speak German!

Pteridophyta

<i>Adiantum capillus-veneris</i>	Maidenhair Fern	Peschici area 2007!
<i>Anogramma leptophylla</i>	Jersey Fern	Carbonara Valley, one plant, new in 2014
<i>Asplenium adiantum-nigrum</i>	Black Spleenwort	Foresta Umbra and Bosco Quarto
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	Sheltered walls etc., locally common, e.g. Foresta Umbra
<i>Blechnum spicant</i>	Hard Fern	Foresta Umbra
<i>Ceterach officinarum</i>	Rustyback Fern	Widespread and locally common
<i>Cystopteris fragilis</i>	Brittle Bladder Fern	A few records, e.g. Monte Nero and Bosco Quarto
<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, where locally common, and Bosco Quarto
<i>Polypodium cambricum</i>	Southern Polypody	Foresta Umbra etc.
<i>Polypodium vulgare</i>	Common Polypody	Foresta Umbra and Bosco Quarto
<i>Polystichum aculeatum</i>	Hard Shield Fern	Foresta Umbra 2015
<i>Polystichum setiferum</i>	Soft Shield Fern	Foresta Umbra
<i>Pteridium aquilinum</i>	Bracken	Widespread
<i>Selaginella denticulata</i>	Mediterranean Selaginella	Locally common on shaded rocks and Banks, e.g. Passo Ingarano

Gymnospermae

Pinaceae

<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

Cupressaceae

<i>Cupressus macrocarpa</i>	Monterey Cypress	Above Carpino etc.
<i>Cupressus sempervirens</i>	Italian Cypress	Scattered
<i>Juniperus oxycedrus</i>	Prickly Juniper	North coast, and Pulsano Gorge and road

Taxacaceae

<i>Taxus baccata</i>	Yew	Foresta Umbra
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Angiospermae *Dicotyledones*

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. e.g. Spina Pulci
<i>Corylus avellana</i>	Hazel	Pulsano road

Fagaceae

<i>Castanea sativa</i>	Sweet Chestnut	Local, e.g. Chiancate
<i>Fagus sylvatica</i>	Common Beech	Locally dominant, as in parts of Foresta Umbra
<i>Quercus cerris</i>	Turkey Oak	Widespread in the forests, e.g. dominant Soina Pulci
<i>Quercus ilex</i>	Holm Oak	Widespread
<i>Quercus pubescens</i>	Downy Oak	Scattered throughout, forest on Monte Nero
<i>Quercus robur</i>	Pedunculate Oak	Noted at Dolina Pozzolino in previous years

Salicaceae

<i>Salix babylonica</i>	Weeping Willow	Pulsano Road, Monte St Angelo.
<i>Populus nigra</i>	Black Poplar	North coast
<i>Populus tremula</i>	Aspen	A few in Foresta Umbra

Juglandaceae

<i>Juglans regia</i>	Walnut	Near Bosco Quarto and in the north
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Betulaceae

<i>Betula pendula</i>	Silver Birch	Foresta Umbra
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Ulmaceae

<i>Ulmus glabra</i>	Wych Elm	Foresta Umbra
<i>Ulmus minor</i>	Small-leaved Elm	Scattered records, e.g. Passo Ingarano

Moraceae

Ficus carica

Fig

Widespread

Loranthaceae

Loranthus europaeus

a mistletoe

Parasitic on one oak near Ruggiano junction

Santalaceae

Osyris alba

Osyris

Near Peschici

Thesium humile

a bastard toadflax

Pulsano gorge and Spina Pulci

Urticaceae

Parietaria judaica

Pellitory of the Wall

Scattered

Parietaria officinalis

Common Pellitory

Pulsano Sanctuary

Urtica dioica

Stinging Nettle

Common

Urtica membranacea

Membraneous Nettle

Pulci tower

Urtica pilulifera

Roman Nettle

Northern roadsides

Urtica urens

Annual Nettle

Ruggiano viewpoint 2014

Aristolochiaceae

Aristolochia clusii

a birthwort

Scattered records, ground cover in woods. Synonym *A. longa*. Some affected by a rust. Noted in the Bosco Quarto and Bosco di Spina Pulci etc. Very short petioles.

Aristolochia rotunda

a birthwort

Polygonaceae

Polygonum aviculare

Knotgrass

South coast

Polygonum maritimum

Sea Knotgrass

North coast dunes, new in 2014

Rumex acetosa

Common Sorrel

Scattered records

Rumex acetosella

Sheep's Sorrel

Near Dolina Pozzatina 2013

Rumex conglomeratus

Clustered Dock

Margherita Saltpans

Rumex crispus

Curled Dock

Scattered records

Rumex obtusifolius

Broad-leaved Dock

Scattered records

Rumex palustris

Marsh Dock

Manfredonia Wetlands in the past

Rumex pulcher

Fiddle Dock

Foresta Umbra in the past

Chenopodiaceae

Arthrocnemum macrostachya

Glasswort

Margherita Saltpans and Lake Lesina

Atriplex halimus

Shrubby Orache

Lake Lesina in previous years

Atriplex prostrata

Spear-leaved Orache

Lake Lesina and near Peschici 2013

Beta vulgaris

Sea Beet

Near Peschici

Camphorosma monspeliaca

Fat Hen

Margherita Saltpans

Chenopodium album

Fat Hen

Near Peschici 2012

Chenopodium murale

Nettle-leaved Goosefoot

Santa Maria di Pulsano Sanctuary

Chenopodium vulvaria

Stinking Goosefoot

Near Peschici 2011

Halimione portulacoides

Sea Purslane

Salt marshes at Margherita and Lesina

Salicornia europaea

Glasswort

Margherita Saltpans

Salsola kali

Prickly Saltwort

Varano Island 2012

Suaeda vera

Shrubby Seablite

Noted at Margherita Saltpans

Suaeda splendens

a seablite

Margherita Saltpans

Aizoaceae

Carpobrotus edulis

Hottentot Fig

Saltmarshes at Margherita Salt pans,
and north coast
In leaf 2014

Mesembryanthemum nodiflorum

Caryophyllaceae

Arenaria leptoclados

Lesser Thyme-leaved Sandwort

Scattered records

Arenaria serpyllifolia

Thyme-leaved Sandwort

Pulsano Road, Peschici area etc.

Cerastium fontanum

Mouse-ear Chickweed

Scattered records, e.g. Passo Ingarano

Cerastium glomeratum

Sticky Mouse-ear

Widespread

Cerastium semidecandrum

Little Mouse-ear

North coast

Dianthus sylvestris

Wood Pink

A few in leaf at Ruggiano viewpoint

Herniaria glabra

Smooth Rupturewort

Bosco di Spina Pulci

Herniaria hirsuta

Hairy Rupturewort

North coast

Minuartia hybrida

Fine-leaved Sandwort

Scattered records, e.g. Spina Pulci

Minuartia verna

Spring Sandwort

Widespread in the hills

Moehringia trinervia

Three-veined Sandwort

Foresta Umbra 2014

Petrohagia velutina

Kohlrauschia

Scattered records, e.g. Ruggiano road

Polycarpon diphyllosum

Two-leaved Allseed

Pulsano Sanctuary

Polycarpon tetraphyllum

Four-leaved Allseed

North coast etc.

Sagina apetala

Annual Pearlwort

Pulsano Road

Sagina procumbens

Procumbent Pearlwort

Scattered records

Scleranthus annuus

Annual Knawel

Monte Nero 2008

Scleranthus perennis

Perennial Knawel

Recorded 2011

Silene alba

White Campion

Scattered records

Silene colorata

a catchfly

Very common on coastal dunes

Silene conica

Sand Catchfly

North Coast dunes

Silene gallica

Small-flowered Catchfly

Passo Ingarano

Silene italica

Italian Catchfly

Scattered, e.g. Pulsano Gorge

Silene subconica

a catchfly

Pulsano road and gorge, and Ruggiano road

Silene vulgaris

Bladder Campion

Scattered, e.g. Varano Island

Spergularia marina

Lesser Sea Spurrey

Manfredonia wetlands 2008

Spergularia rubra

Sand-spurrey

Peschici etc.

Stellaria holostea

Greater Stitchwort

Scattered in wooded areas, e.g. Bosco
Quarto

Stellaria media

Common Chickweed

Widespread. Stamens 3 to 8.

Stellaria neglecta

Greater Chickweed

Chiancate. Stamens 10.

Velezia rigida

Velezia

In leaf at the lunch site near Peschici, 2014

Ranunculaceae

Adonis annua

Pheasant's-eye

Carbonara Valley 2006 and 2013

Anemone apennina

Blue Anemone

Locally co-dominant under trees in the
hills, including much of the white form
var. albiflora

Anemone hortensis

an anemone

Scattered records. Tepals 12 to 19.

Anemone pavonina

Peacock Anemone

Widespread and common. Tepals 7 to 12.

Aquilegia vulgaris

Common Columbine

In leaf this year in the Bosco Quarto

Clematis flammula

Fragrant Clematis

Scattered in the north, in leaf

Clematis vitalba

Traveller's Joy

Scattered – mostly in the north. In leaf.

Eranthis hyemalis

Winter Aconite

In seed in Carbonara Valley

Nigella damascena

Love-in-a-mist

Peschici olive grove etc.

Ranunculus acris

Meadow Buttercup

Pilgrim's Road, Monte St Angelo and near
Vieste

Ranunculus arvensis

Corn Buttercup

Carbonara 'tulip fields' 2012

Ranunculus bulbosus

Bulbous Buttercup

Widespread

<i>Ranunculus ficaria</i>	Lesser Celandine	Bosco di Spina Pulci, Monte Nero etc.
<i>Ranunculus garganicus</i>	a buttercup	Sepals pubescent. Not seen?
<i>Ranunculus lanuginosus</i>	Woolly Buttercup	Foresta Umbra
<i>Ranunculus millefoliatus</i>	a buttercup	Widespread and common. Sepals glabrous.
<i>Ranunculus muricatus</i>	a buttercup	Foresta Umbra 2013
<i>Ranunculus paludosus</i>	Jersey Buttercup	In leaf
<i>Ranunculus parviflorus</i>	Small-flowered Buttercup	Foresta Umbra
<i>Ranunculus sardous</i>	Hairy Buttercup	Widespread
<i>Ranunculus scleratus</i>	Celery-leaved Buttercup	Rodi Garganico
<i>Ranunculus trichophllylus</i>	Thread-leaved Water Dropwort	Manfredonia wetlands 2008

Paeoniaceae

<i>Paeonia mascula</i>	a Peony	In flower this year in Carbonara valley, near Dolina Pozzatina, and near Chiancate.
<i>Paeonia peregrina</i>	a Peony	3 in flower this year in the north.

Capparaceae

<i>Capparis spinosa</i>	a Caper	Pulsano sanctuary
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Papaveraceae

<i>Chelidonium majus</i>	Greater Celandine	Foresta Umbra
<i>Papaver apulum</i>	a poppy	Scattered records in north, mainly roadsides
<i>Papaver dubium</i>	Long-headed Poppy	Recorded in the north
<i>Papaver hybridum</i>	Rough Poppy	1 small example west of Peschici
<i>Papaver rhoeas</i>	Common Poppy	Widespread and locally numerous
<i>Papaver somniferum</i>	Opium Poppy	North coast

Fumariaceae

<i>Corydalis cava</i>	Bulbous Corydalis	Locally several in flower this year
<i>Fumaria agraria</i>	a fumitory	Dolina Pozzatina 2007
<i>Fumaria bastardii</i>	Tall Ramping-Fumitory	Scattered records
<i>Fumaria capreolata</i>	White Ramping-Fumitory	Widespread and common
<i>Fumaria densiflora</i>	a fumitory	Scattered records, e.g. Ruggiano road
<i>Fumaria officinalis</i>	Common Fumitory	Widespread and locally common
<i>Fumaria parviflora</i>	Small Fumitory	Pulsano Sanctuary, Passo Ingarano
<i>Fumaria vaillantii</i>	a fumitory	Near Peschici and Bosco Quarto

Cruciferae

<i>Aethionema saxatile</i>	Burnt Candytuft	Hillside above Carpino, Carbonara Valley etc.
<i>Alliaria petiolata</i>	Garlic Mustard	Scattered in woodlands, e.g. Foresta Umbra
<i>Alyssoides sinuata</i>	Alyssoides	Scattered, e.g. Passo Ingarano, Cagnano, and Pulsano sanctuary
<i>Alyssum minus</i>		Locally very common
<i>Arabidopsis thaliana</i>	Thale Cress	Scattered records
<i>Arabis alpina</i>	Alpine Rockcress	Monte St. Angelo, ssp. <i>caucasica</i>
<i>Arabis collina</i>	a rockcress	Scattered records in the south, pinkish flowers. Syn. <i>Arabis rosea</i> . Also above Carpino.
<i>Arabis glabra</i>	Tower Mustard	Bosco Quarto

<i>Arabis hirsuta</i>	Hairy Rockcress	Widespread
<i>Arabis sagittata</i>	a rockcress	<i>Cachrys</i> site
<i>Arabis turrita</i>	Towercress	Foresta Umbra
<i>Arabis verna</i>	Spring Rockcress	Bosco Quarto, Pulsano road, Passo Ingarano, Spina Pulci
<i>Aubrieta columnae</i>		Walls and rocks in Monte St. Angelo, <i>ssp.italica</i>
<i>Aurinia saxatile</i>	Golden Alyssum	Widespread and common, e.g. above Carpino
<i>Barbarea bracteosa</i>	a Wintercress	Scattered records 2013
<i>Barbarea vulgaris</i>	Common Wintercress	Bosco Quarto lunch site
<i>Biscutella didyma</i>	Biscutella	Widespread
<i>Biscutellas lyrata</i>	a biscutella	Probably this species along Pulsano road
<i>Brassica nigra</i>	Black Mustard	Scattered
<i>Brassica rapa</i>	Wild Turnip	Recorded
<i>Bunias erucago</i>	Bunias	Rather widespread and locally common, e.g. near Peschici
<i>Cakile maritima</i>	Sea Rocket	Noted on the shore in the north, and at Margherita
<i>Calepina irregularis</i>	White Ball Mustard	Peschici, Monte St. Angelo
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Widespread and common
<i>Capsella rubella</i>	a shepherd's-purse	Recorded, e.g. Pulsano Gorge
<i>Cardamine chelidonia</i>	a bittercress	A few in Foresta Umbra
<i>Cardamine graeca</i>	a bittercress	Widespread in forests. White flowers.
<i>Cardamine hirsuta</i>	Hairy Bittercress	Bosco Quarto, Foresta Umbra etc.
<i>Cardaria draba</i>	Hoary Cress	Scattered records
<i>Clypeola jonthlaspi</i>	Clypeola	Recorded in fruit 2013
<i>Coronopus squamatus</i>	Swinecress	Beach near Peschici
<i>Dentaria (Cardamine) bulbifera</i>	Coralroot Bittercress	Scattered in woods, e.g. Foresta Umbra
<i>Diplotaxis eruroides</i>	White Wall Rocket	Near Peschici 2007
<i>Diplotaxis tenuifolia</i>	Perennial Wall Rocket	Margherita area 2012
<i>Draba muralis</i>	Wall Whitlow Grass	Foresta Umbra
<i>Erophila verna</i>	Whitlow Grass	Scattered records, a few still in flower
<i>Eruca sativa</i>	Eruca	Widespread and locally abundant
<i>Erysimum</i> sp.	Treacle Mustard	Yellow flowers and fine grey leaves, Pulsano road and transfer day, 2013. <i>Erysimum crassistylum?</i>
<i>Hirschfeldia incana</i>	Hoary Mustard	Scattered records
<i>Hornungia petraea</i>	Hutchinsia	Very local, Monte Nero
<i>Isatis tinctoria</i>	Woad	Widespread and often common on roadsides
<i>Lepidium latifolium</i>	Dittander	Very locally in flower on roadsides above Cagnano
<i>Lobularia maritima</i>	Sweet Alison	Scattered in the north
<i>Malcolmia ramosissima</i>		Recorded 2015
<i>Matthiola incana</i>	Hoary Stock	Tower near Peschici
<i>Neslia paniculata</i>	Ball Mustard	1 in arable field below Chiancate, 2013
<i>Raphanus raphanistrum</i>	Wild Radish	Scattered
<i>Rapistrum rugosum</i>	Bastard Cabbage	In the north
<i>Sinapis alba</i>	White Mustard	Widespread
<i>Sinapis arvensis</i>	Charlock	Widespread
<i>Sisymbrium irio</i>	London Rocket	Scattered records in the south
<i>Sisymbrium loeselii</i>	False London Rocket	Pulsano Sanctuary
<i>Sisymbrium officinale</i>	Hedge Mustard	Scattered, e.g. Rodi
<i>Sisymbrium orientale</i>	Eastern Rocket	Villa Rosa
<i>Thlaspi arvense</i>	Field Pennycress	Carbonara Valley, arable weed, 2012
<i>Thlaspi perfoliatum</i>	Perfoliate Pennycress	Arable weed near Bosco Quarto, 2012

<i>Thlaspi praecox</i>	a pennycress	Near Carpino, Bosco Quarto etc.
Resedaceae		
<i>Reseda alba</i>	White Mignonette	Widespread, mainly north
<i>Reseda lutea</i>	Wild Mignonette	West of Vieste
<i>Reseda phyteuma</i>	Corn Mignonette	Ruggiano Road
Crassulaceae		
<i>Sedum acre</i>	Biting Stonecrop	In flower Manfredonia
<i>Sedum album</i>	White Stonecrop	Monte Nero in leaf
<i>Sedum caespitosum</i>	a stonecrop	Widespread and locally common
<i>Sedum cepaea</i>	a stonecrop	In leaf Foresta Umbra 2014
<i>Sedum hispanicum</i>	a stonecrop	Pulsano Sanctuary 2014
<i>Sedum ochroleucon</i>	a stonecrop	Pulsano Road etc., in leaf
<i>Sedum rupestre</i>	a stonecrop	In leaf
<i>Sedum sediforme</i>	a stonecrop	Noted in leaf, Pulsano Gorge
<i>Sedum stellatum</i>	Starry Stonecrop	Scattered records, in leaf
<i>Umbilicus rupestris</i>	Navelwort	Pulsano road and gorge
Saxifragaceae		
<i>Saxifraga bulbifera</i>	a saxifrage	Scattered, e.g. Spina Pulci, has bulbils in leaf axils
<i>Saxifraga graeca (carpetana)</i>	a saxifrage	Bosco Quarto and Monte Nero
<i>Saxifraga tridactylites</i>	Rue-leaved Saxifrage	Noted in a variety of localities, e.g. Pulsano Gorge, Foresta Umbra
Platanaceae		
<i>Platanus X hybrida</i>	London Plane	Noted en route from Bari to Rodi
Hydrangeaceae		
<i>Philadelphus coronarius</i>		Naturalised at the Dolina Pozzatina
Pittosporaceae		
<i>Pittosporum tobira</i>		Beach near Peschici
Rosaceae		
<i>Agrimonia eupatoria</i>	Agrimony	Noted in leaf
<i>Aphanes inexpectata</i>	a Parsley Piert	Noted at several sites in short woodland turf, locally numerous as in Spina Pulci
<i>Aremonia agriminoides</i>	Bastard Agrimony	Widespread but local in woods
<i>Cotoneaster nebrodensis</i>	a cotoneaster	Possibly this species near Peschici 2008
<i>Crataegus monogyna</i>	Hawthorn	Widespread
<i>Cydonia oblonga</i>	Quince	A few in flower
<i>Eriobotrya japonica</i>	Loquat	Recorded
<i>Filipendula vulgaris</i>	Dropwort	In leaf 2012
<i>Fragaria moschata</i>	Hautbois Strawberry	Scattered in the hills
<i>Fragaria vesca</i>	Wild Strawberry	Local in leaf
<i>Geum urbanum</i>	Herb Bennet	In flower above Carpino
<i>Malus sylvestris</i>	Crab Apple	Pulsano Road, Monte St Angelo, near Vico, and above Carpino
<i>Potentilla hirta</i>	a cinquefoil	Scattered in leaf, in flower Ruggiano road
<i>Potentilla micrantha</i>	Pink Barren Strawberry	A few in flower

<i>Prunus avium</i>	Wild Cherry	Scattered, e.g. Spina Pulci road
<i>Prunus dulcis</i>	Almond	Commonly cultivated
<i>Prunus mahaleb</i>	St.Lucies' Cherry	Pulsano Gorge
<i>Prunus persica</i>	Peach	Cultivated
<i>Prunus spinosa</i>	Blackthorn	Scattered
<i>Prunus webbii</i>		Recorded 2011
<i>Pyrus amygdaliformis</i>	Almond-leaved Pear	Widespread
<i>Pyrus communis</i>	Cultivated Pear	Scattered records
<i>Rosa canina</i>	Dog Rose	Villa Rosa lunch site etc.
<i>Rosa</i> spp.	rose spp.	Other species not identified, several in flower this year
<i>Rubus canescens</i>	a bramble	Widespread. Small trefoil leaves.
<i>Rubus ulmifolius</i>	a bramble	Widespread. Variable leaves.
<i>Rubus</i> spp.	bramble spp.	Other species not identified
<i>Sanguisorba minor</i>	Salad Burnet	Scattered records
<i>Sorbus aucuparia</i>	Rowan	Scattered records
<i>Sorbus torminalis</i>	Wild Service Tree	Chiancate
<i>Fabaceae</i>		
<i>Acacia cyanophylla</i>	Blue-leaved Wattle	Planted in northern lowlands
<i>Amorpha fruticosa</i>		Manfredonia wetlands 2008
<i>Anagyris foetida</i>	Bean Trefoil	Passo Ingarano, in fruit
<i>Anthyllis barba-jovis</i>	Jupiter's Beard	Bordering the beach near Peschici
<i>Anthyllis tetraphylla</i>	Bladder Vetch	Scattered in northern lowlands, e.g. near Peschici
<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 in Pulsano Gorge 2011
<i>Astragalus hamosus</i>	a milk-vetch	Local, mostly in seed, e.g. Dolina Pozzatina
<i>Astragalus monspessulanus</i>	False Vetch	In flower along Pulsano road, and west of Vieste
<i>Astragalus montanus</i>	a milk-vetch	Pulsano road, this species? Synonymy?
<i>Astragalus sesameus</i>	a milk-vetch	A few records
<i>Ceratonia siliqua</i>	Carob Tree	Olive grove near Peschici
<i>Cercis siliquastrum</i>	Judas Tree	Scattered in flower
<i>Chamaecytisus spinescens</i>	a hairy broom	Several in Pulsano gorge in fine flower
<i>Colutea arborescens</i>	Bladder Senna	Near Vieste
<i>Coronilla cretica</i>	a scorpion vetch	Peschici
<i>Coronilla emerus</i>	Scorpion Senna	Widespread
<i>Coronilla scorpioides</i>	Annual Scorpion Vetch	Widespread
<i>Coronilla valentina</i>	a scorpion vetch	In leaf, Pulsano Gorge
<i>Cytisus decumbens</i>	a broom	Locally very common around Monte St Angelo. Entire leaves.
<i>Cytisus scoparius</i>	Broom	Foresta Umbra 2012
<i>Cytisus villosus</i>	a broom	Near Dolina Pozzatina
<i>Dorycnium hirsutum</i>	Dorycnium	Common in dunes and sandy areas in north, e.g. Peschici
<i>Genista sylvestris</i>	a greenweed	Pulsano gorge
<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 seen in recent years!
<i>Hippocrepis ciliata</i>	a horseshoe vetch	Recorded 2013
<i>Hippocrepis glauca</i>	a horseshoe vetch	Widespread and common
<i>Hippocrepis multisiliquosa</i>	a horseshoe vetch	Recorded 2013
<i>Hippocrepis unisiliquosa</i>	a horseshoe vetch	Widespread and common

<i>Hymenocarpus circinnatus</i>	Disk Trefoil	<i>Paeonia peregrina</i> site
<i>Lathyrus aphaca</i>	Yellow Vetchling	Peschici, Carbonara Valley
<i>Lathyrus cicera</i>	a vetchling	Widespread and locally common
<i>Lathyrus clymenum</i>	a vetchling	Ruggiano viewpoint
<i>Lathyrus niger</i>	Black Pea	In bud 2014
<i>Lathyrus ochrus</i>	a vetchling	Local, e.g. Carbonara valley
<i>Lathyrus setifolius</i>	a vetchling	Scattered records
<i>Lathyrus sphaericus</i>	a vetchling	Scattered records
<i>Lathyrus venetus</i>	a vetchling	Foresta Umbra in leaf
<i>Lotus corniculatus</i>	Birdsfoot Trefoil	Common and widespread
<i>Lotus cytisoides</i>	a bird's-foot trefoil	North coast dunes
<i>Lotus edulis</i>	Edible Lotus	Widespread – especially along coasts, locally very common
<i>Lotus halophilus</i>	a bird's-foot trefoil	Locally in the north
<i>Lotus ornithopodioides</i>		Widespread and common
<i>Lupinus albus</i>	White Lupin	Fodder crop and seeded therefrom
<i>Lupinus varius</i>	a lupin	Near Sannicandro
<i>Medicago arabica</i>	Spotted Medick	Widespread
<i>Medicago disciformis</i>	a medick	<i>Paeonia peregrina</i> site and Vieste area, etc.
<i>Medicago littoralis</i>	a medick	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>	Small Medick	Pulsano road and gorge and in the north
<i>Medicago murex</i>	a medick	Recorded in the past
<i>Medicago orbicularis</i>	Large Disk Medick	Peschici
<i>Medicago polymorpha</i>	Toothed Medick	Widespread
<i>Medicago rugosa</i>	a medick	Passo Ingarano 2015
<i>Medicago sativa</i>	Lucerne	Between Monte St. Angelo and Bari Airport
<i>Medicago truncatula</i>	a medick	Near Peschici 2011
<i>Melilotus indicus</i>	Small Melilot	Scattered records
<i>Melilotus infestus</i>	a melilot	Near Peschici
<i>Melilotus messanensis</i>	a melilot	A few at Lake Lesina
<i>Melilotus segetalis</i>	a melilot	Margherita saltpans
<i>Melilotus sulcata</i>	a melilot	Near Peschici
<i>Onobrychis aequidentata</i>	a sainfoin	Scattered records, e.g. near Vieste, Peschici
<i>Onobrychis alba</i>	a sainfoin	Common around Monte St Angelo
<i>Onobrychis caput-galli</i>	Cockscomb Sainfoin	In fruit at Manfredonia
<i>Onobrychis viciifolia</i>	Sainfoin	Margherita Saltpans
<i>Ononis diffusa</i>	a restharrow	North dunes
<i>Ononis reclinata</i>	Small Restharrow	This species in the north?
<i>Ononis variegata</i>	a restharrow	Locally common on the north coast
<i>Ononis viscosa</i>	a restharrow	Recorded in the north
<i>Ornithopus compressus</i>	Compressed Birdsfoot	Recorded
<i>Pisum sativum</i>	Wild Pea	Widespread and locally common
<i>Psoralea bituminosa</i>	Pitch Trefoil	Widespread, several in flower this year
<i>Robinia pseudacacia</i>	False Acacia	Locally planted
<i>Scorpiurus muricatus</i>	Scorpiurus	Widespread
<i>Scorpiurus vermiculatus</i>	a scorpiurus	Scattered records 2013
<i>Securigera securidaca</i>	a scorpion vetch	Widespread and common, e.g. Peschici
<i>Spartium junceum</i>	Spanish Broom	Widespread and locally common
<i>Tetragonolobus purpureus</i>	Asparagus Pea	Peschici area
<i>Trifolium arvense</i>	Hare's-foot Clover	<i>Serapias apulica</i> site
<i>Trifolium campestre</i>	Hop Trefoil	Near Peschici etc.
<i>Trifolium cherleri</i>	a clover	Scattered records

<i>Trifolium fragiferum</i>	Strawberry Clover	In flower near Peschici 2011
<i>Trifolium glomeratum</i>	Clustered Clover	<i>Serapias apulica</i> site 2015
<i>Trifolium medium</i>	Zigzag Clover	Pulsano road 2013
<i>Trifolium pratense</i>	Red Clover	Scattered
<i>Trifolium repens</i>	White Clover	Widespread
<i>Trifolium scabrum</i>	Rough Clover	Scattered records
<i>Trifolium stellatum</i>	Star Clover	Widespread and common
<i>Trifolium subterraneum</i>	Subterranean Clover	Spina Pulci, near Carpino, Monte Nero, etc.
<i>Trifolium tomentosum</i>	Woolly Clover	Near Peschici
<i>Trigonella monspeliaca</i>	Star-fruited Fenugreek	Near Vieste 2008

<i>Trigonella</i> sp.	fenugreek sp.	Cliffs south of Ruggiano. Yellow flowers. 2008. Spina Pulci 2012.
<i>Vicia atropupurea (benghalensis)</i>	a vetch	Passo Ingarano
<i>Vicia barbazitae</i>	a vetch	Noted in the Foresta Umbra, yellow standard, blue wings, 2011
<i>Vicia bithynica</i>	Bithynian Vetch	Widespread, e.g. Passo Ingarano, Ruggiano Road, Peschici
<i>Vicia cracca</i>	Tufted Vetch	Local on roadsides
<i>Vicia faba</i>	Broad Bean	Occasionally naturalised
<i>Vicia grandiflora</i>	a vetch	Scattered woodland records, e.g. Spina Pulci
<i>Vicia hirsuta</i>	Hairy Vetchling	Peschici, Spina Pulci, etc.
<i>Vicia hybrida</i>	Hairy Yellow Vetchling	Widespread and reasonably common
<i>Vicia lathyroides</i>	Spring Vetch	A few records
<i>Vicia lutea</i>	Yellow Vetch	Seen in the north
<i>Vicia melanops</i>	a vetch	Very local in the Carbonara Valley
<i>Vicia onobrychioides</i>	False Sainfoin	Monte Nero, Chiancate, and Ruggiano road
<i>Vicia peregrina</i>	a vetch	Pulsano Road etc.
<i>Vicia pubescens</i>	a vetch	Recorded
<i>Vicia sativa</i>	Common Vetch	Widespread and common
<i>Vicia sepium</i>	Bush Vetch	Scattered records
<i>Vicia villosa</i>	Fodder Vetch	Scattered records

Oxalidaceae

<i>Oxalis articulata</i>	Pink Oxalis	Pulsano sanctuary 2014
<i>Oxalis corniculata</i>	Procumbent Yellow Sorrel	Recorded 2012
<i>Oxalis pes-caprae</i>	Bermuda Buttercup	Locally dominant under olives in the north

Geraniaceae

<i>Erodium acaule</i>	a stork's-bill	Spina Pulci
<i>Erodium ciconium</i>	a stork's-bill	Passo Ingarano and Pulsano road
<i>Erodium cicutarium</i>	Common Stork's-bill	Widespread and common
<i>Erodium laciniatum</i>	a stork's-bill	Varano Island dunes
<i>Erodium malacoides</i>	Mallow-leaved Stork's-bill	Widespread
<i>Erodium maritimum</i>	a stork's bill	In leaf west of Vieste etc.
<i>Geranium columbinum</i>	Long-stalked Cranesbill	Near Peschici
<i>Geranium dissectum</i>	Cut-leaved Cranesbill	Near Peschici
<i>Geranium lucidum</i>	Shining Cranesbill	Bosco di Spina Pulci, Bosco Quarto etc.
<i>Geranium molle</i>	Dovesfoot Cranesbill	Widespread
<i>Geranium purpureum</i>	Little Robin	Scattered records
<i>Geranium pusillum</i>	Small-flowered Cranesbill	Scattered records
<i>Geranium robertianum</i>	Herb Robert	Widespread
<i>Geranium rotundifolium</i>	Round-leaved Cranesbill	Scattered records
<i>Geranium tuberosum</i>	Tuberous Crane's-bill	Spina Pulci

Linaceae

<i>Linum austriacum</i>	a flax	Carbonara valley and Pulsano road. <i>ssp.collinum</i> . Large blue flowers.
<i>Linum bienne</i>	Pale Flax	Scattered records, e.g. Pulsano road
<i>Linum tenuifolium</i>	a flax	1 in flower in Pulsano Gorge
<i>Linum trigynum</i>	a flax	Near Manfredonia 2007

Euphorbiaceae

<i>Euphorbia amygdaloides</i>	Wood Spurge	Locally common in woods, e.g. Spina Pulci
<i>Euphorbia barrelieri</i>	a spurge	Scattered in the south, locally common
<i>Euphorbia ceratocarpa</i>	a spurge	Locally common, e.g. Chiancate
<i>Euphorbia characias</i>	Large Mediterranean Spurge	Widespread and very common
<i>Euphorbia exigua</i>	Dwarf Spurge	Locally common
<i>Euphorbia falcata</i>	a spurge	Near Peschici etc.
<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 records
<i>Euphorbia pinea</i>	a spurge	Near Peschici
<i>Euphorbia rigida</i>	a spurge	Alta Murgia 2012
<i>Euphorbia segetalis</i>	a spurge	Widespread and locally common in the north
<i>Euphorbia spinosa</i>	a spurge	Widespread on dry rocky turf
<i>Mercurialis annua</i>	Annual Mercury	Locally common in the north
<i>Mercurialis perennis</i>	Dog's Mercury	Foresta Umbra
<i>Ricinus communis</i>	Castor Oil Plant	Varano Island

Rutaceae

<i>Citrus aurantium</i>	Seville Orange	Cultivated
<i>Citrus limon</i>	Lemon	Cultivated
<i>Ruta chalepensis</i>	Fringed Rue	Recorded
<i>Ruta graveolens</i>	a rue	Near Vieste etc.

Meliaceae

<i>Melia azederach</i>	Persian Lilac	Noted in the north of the peninsula
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Polygalaceae

<i>Polygala flavescens</i>	a milkwort	This species along Pulsano road?
<i>Polygala monspeliaca</i>	a milkwort	<i>Paeonia peregrina</i> site and west of Vieste, 2014
<i>Polygala nicaeensis</i>	Nice Milkwort	Noted in the south 2012
<i>Polygala vulgaris</i>	Common Milkwort	Monte Nero and Spina Pulci

Hippocastanaceae

<i>Aesculus hippocastanum</i>	Horse Chestnut	A few seen, e.g. S.Marco in Lamis
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Anacardiaceae

<i>Pistacia lentiscus</i>	Mastic Tree	Widespread and common
<i>Pistacia terebrinthus</i>	Terebrinth	Scattered throughout, locally common

Aceraceae

<i>Acer campestre</i>	Field Maple	Widespread
<i>Acer opalus</i>	Italian Maple	Chiancate
<i>Acer obtusatum</i>	a maple	Chiancate
<i>Acer pseudoplatanus</i>	Sycamore	Scattered records

Rhamnaceae

<i>Paliurus spina-christi</i>	Christ's Thorn	Forming dense thorny scrub on Passo Ingarano and elsewhere
<i>Rhamnus alaternus</i> <i>Rhamnus saxatilis</i>	Mediterranean Buckthorn a buckthorn	Pulsano Gorge Pulsano Gorge and Ruggiano road

Vitaceae

<i>Vitis vinifera</i>	Grape	Widely cultivated, occasionally naturalised plants seen as at Pulsano
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Aquifoliaceae

<i>Ilex aquifolium</i>	Holly	In the Foresta Umbra and Bosco Quarto
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Elaeagnaceae

<i>Elaeagnus angustifolia</i>	Oleaster	Lake Lesina
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Tiliaceae

<i>Tilia platyphyllos</i>	Large-leaved Lime	Foresta Umbra
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Malvaceae

<i>Althaea hirsuta</i>	Rough Marsh-Mallow	Near Rignano and near Vieste 2008
<i>Lavatera cretica</i>	Smaller Tree-Mallow	Margherita Salt pans etc.
<i>Lavatera arborea</i>	Tree Mallow	Locally common along the north coast
<i>Lavatera olbia</i>	Tree Lavatera	Roadsides in the past
<i>Malva cretica</i>	a mallow	Near Vieste
<i>Malva neglecta</i>	Dwarf Mallow	Margherita area
<i>Malva parviflora</i>	Least Mallow	Manfredonia, Peschici, etc.
<i>Malva sylvestris</i>	Common Mallow	Widespread and common

Thymelaeaceae

<i>Daphne gnidium</i>	a daphne	Noted in leaf
<i>Daphne laureola</i>	Spurge Laurel	Scattered in fruit in the Foresta Umbra, Bosco Quarto, and Spina Pulci

Violaceae

<i>Viola arvensis</i> <i>Viola graeca</i>	Field Pansy a violet	Local. Not seen in recent years. = <i>V.heterophylla</i> . Widespread at higher levels. Both yellow and purple forms.
<i>Viola reichenbachiana</i> <i>Viola riviniana</i> <i>Viola suavis</i>	Early Dog Violet Common Dog Violet a violet	Local in woods, e.g. Bosco Quarto Scattered in woods, e.g. Spina Pulci Foresta Umbra and Bosco Quarto

Guttiferae

<i>Hypericum montanum</i> <i>Hypericum perforatum</i>	Mountain St John's-Wort a St.John's-wort	In leaf Pulsano road 2012 Northern coastal lowlands, e.g. near Peschici, in flower
<i>Hypericum perforatum</i>	Perforate St John's-Wort	Scattered in leaf and bud

Cistaceae

<i>Cistus creticus</i>	a cistus	Locally common along the north coast and lower north-facing hills, with several already in flower, also in the south
<i>Cistus monspeliensis</i>	Narrow-leaved Cistus	Locally common in flower in the north of the Peninsula
<i>Cistus salvifolius</i>	Sage-leaved Cistus	Locally common, as at Pulsano Gorge, and northern coastal dunes. Much in flower.
<i>Fumana ericoides</i>	a fumana	Pulsano gorge and road
<i>Fumana thymifolia</i>	Thyme-leaved Fumana	Northern coastal dunes
<i>Helianthemum aegyptiacum</i>	a rockrose	Scattered records, e.g. Ruggiano road
<i>Helianthemum apenninum</i>	White Rockrose	Widespread and locally common in the south
<i>Helianthemum canum</i>	Hoary Rockrose	Pulsano road lunch site
<i>Helianthemum lavandulaefolium</i>	Lavender-leaved Rockrose	Pulsano Sanctuary 2006
<i>Helianthemum nummularium</i>	Common Rockrose	Peschici, and <i>Cachrys</i> site
<i>Helianthemum salicifolium</i>	Willow-leaved Rockrose	Locally common, as at Passo Ingarano

Tamaricaceae

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

Cucurbitaceae

<i>Bryonia dioica</i>	White Bryony	Near Peschici
<i>Ecballium elaterium</i>	Squirting Cucumber	Near Peschici, Margherita salt pans, Pulsano Sanctuary and Villa Rosa

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' and elsewhere
<i>Myrtus communis</i>	Common Myrtle	Scattered in the north

Punicaceae

<i>Punica granatum</i>	Pomegranate	Tower near Peschici
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Onagraceae

<i>Circaea lutetiana</i>	Enchanter's Nightshade	Common in leaf in woodlands
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Theligoniaceae

<i>Theligonium cynocrambe</i>		Widespread, e.g. Passo Ingarano and near Vieste
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Celastraceae

<i>Euonymus europaeus</i>	Spindle	Scattered in woodlands
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Cornaceae

<i>Cornus sanguinea</i>	Dogwood	Near Vico
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Araliaceae

Hedera helix

Ivy

Local in woods. Some very robust specimens in Bosco Quarto.

Apiaceae

Anthriscus sylvestris

Bifora testiculata

Cachrys ferulacea

Cow Parsley

Bifora

Monte Nero

Near Peschici 2005!

Four species of *Cachrys* occur in the Gargano. This was probably the species in fine flower on a short stretch of roadside near Bosco Quarto, 2014 and 2015.

Caucalis platycarpus

Chaerophyllum hirsutum

Cnidium silaifolium

Conium maculatum

Conopodium capillifolium

Crithmum maritimum

Daucus carota

Daucus spp.

Echinophora spinosa

Echinophora tenuifolia

Elaeoselinum asclepium

Eryngium campestre

Eryngium maritimum

Small Bur Parsley

Hairy Chervil

Hemlock

Rock Samphire

Wild Carrot

carrot spp.

Field Eryngo

Sea Holly

Peschici olive grove

Foresta Umbra

This species seen in leaf ?

Manfredonia wetlands 2008

In flower on Chiancate

In leaf

Lowlands south of Manfredonia etc.

Other species possibly present

Leaves noted in northern dunes

Leaves near Vieste etc.

Scattered in leaf, e.g. Passo Ingarano

Scattered in leaf

Dunes and sandy shores along north coast, in leaf

Ferula communis

Giant Fennel

Widespread and locally abundant, some very robust examples

Foeniculum vulgare

Laserpitium garganicum

Fennel

In leaf

Monte Nero, common in leaf, glabrous with elliptical lobes

Opopanax chironium

Opopanax hispidus

In leaf near Monte Nero

In leaf in the Carbonara Valley etc., locally common

Pimpinella sp.

Sanicula europaea

Scandix australis

a burnet saxifrage

Sanicle

a shepherd's-needle

Small examples in the wall at 100 Pozzi

In flower, Foresta Umbra and Bosco Quarto

Locally common in the limestone turf in the southern hills. Has an aniseed aroma.

Scandix pecten-veneris

Seseli montanum

Shepherd's-needle

Widespread and common

Pulsano Sanctuary, on the walls, and Monte St. Angelo. ssp. *polyphyllum*, in fine flower.

Smyrniium olusatrum

Smyrniium rotundifolium

Thapsia garganica

Tordylium apulum

Tordylium officinale

Torilis arvensis

Torilis nodosa

Alexanders

Round-leaved Alexanders

Thapsia

Tordylium

Spreading Hedge Parsley

Knotted Hedge Parsley

Roadsides

Passo Ingarano

Widespread in leaf, with some in flower

Widespread and common

Scattered records, e.g. west of Vieste

Recorded

West of Peschici

Ericaceae

Erica arborea

Tree Heath

Very local, near Vico, and on roadsides on the northern slopes of Carbonara Valley

Primulaceae

<i>Anagallis arvensis</i>	Scarlet Pimpernel	Widespread, mostly the blue flowered form, but red form seen too. A few on Passo Ingarano 2015
<i>Anagallis foemina</i>		Widespread and locally common. Very small!
<i>Asterolinon linum-stellatum</i>		Leaves at various sites
<i>Cyclamen hederifolium</i>	Ivy-leaved Sowbread	Widespread in woods in the north and centre of the peninsula, locally numerous in flower this year
<i>Cyclamen repandum</i>	Spring Sowbread	

Plumbaginaceae

<i>Armeria canescens</i>	a thrift	Carbonara valley, in bud, 2014.
<i>Limonium vulgare</i>	Common Sea-Lavender	Margherita, in leaf

Oleaceae

<i>Fraxinus excelsior</i>	Ash	Recorded
<i>Fraxinus ornus</i>	Manna Ash	Widespread in fine blossom
<i>Ligustrum vulgare</i>	Privet	Forming ground layer in Bosco Quarto
<i>Olea europea</i>	Olive	Widely cultivated, and wild form seen too
<i>Phillyrea angustifolia</i>		Northern lowlands
<i>Phillyrea latifolia</i>		Peschici area

Apocynaceae

<i>Nerium oleander</i>	Oleander	Roadsides
<i>Vinca major</i>	Greater Periwinkle	Dolina Pozzantina etc.

Asclepiadaceae

<i>Vincetoxicum hirundinaria</i>	Swallow-wort	Recorded in 2002! 2014, one on roadside west of Cagnano.
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Gentianaceae

<i>Blackstonia acuminata</i>	Yellow-wort	This species in leaf near Peschici, etc.
<i>Centaurium erythraea</i>	Common Centaury	Common in flower this year near Peschici
<i>Centaurium pulchellum</i>	Lesser Centaury	Manfredonia and <i>Serapias apulica</i> site

Rubiaceae

<i>Asperula arvensis</i>	Blue Woodruff	Arable weed near Chiancate, and Carbonara.
<i>Asperula taurina</i>	Pink Woodruff	This was the robust woodruff in flower in Foresta Umbra. Flowers white not pink! Scattered records Monte Nero 2011
<i>Cruciata laevipes</i>	Cross-wort	A few records
<i>Cruciata pedemontana</i>	a cross-wort	Scattered throughout
<i>Cruciata glabra</i>	a cross-wort	Scattered records, e.g. Pulsano Gorge
<i>Galium aparine</i>	Cleavers	Pulsano road etc.
<i>Galium mollugo</i>	Hedge Bedstraw	Foresta Umbra, in flower
<i>Galium murale</i>	a bedstraw	In leaf Foresta Umbra 2013
<i>Galium odoratum</i>	Woodruff	Arable fields
<i>Galium rotundifolium</i>	a bedstraw	Locally in leaf
<i>Galium tricornutum</i>	Corn Cleavers	
<i>Galium verum</i>	Lady's Bedstraw	

<i>Galium verrucosum</i>	a bedstraw	Scattered records
<i>Rubia peregrina</i>	Wild Madder	Peschici etc., in good flower
<i>Sherardia arvensis</i>	Sherardia	Widespread and very common
<i>Valantia hispida</i>		Recorded
<i>Valantia muralis</i>		Widespread

Convolvulaceae

<i>Calystegia soldanella</i>	Sea Bindweed	North coast dunes, in leaf this year
<i>Calystegia sylvatica</i>	Great Bindweed	Near Vico
<i>Convolvulus arvensis</i>	Field Bindweed	In leaf near Peschici
<i>Convolvulus cantabrica</i>	Pink Convolvulus	Near Rignano 2012
<i>Convolvulus elegantissimus</i>	Mallow-leaved Bindweed	Also known a <i>Convolvulus althaeoides</i> subspecies <i>elegantissimus</i> . Widespread.
<i>Convolvulus lineatus</i>	a bindweed	In flower near Peschici 2014
<i>Convolvulus pentapetaloides</i>	a bindweed	West of Vieste
<i>Cuscuta epithymum</i>	Common Dodder	Scattered records of presumably this species, in bud
<i>Cuscuta</i> sp.	a dodder	Northern dunes

Boraginaceae

<i>Alkanna tinctoria</i>	Dyer's Alkanet	Widespread and locally common. 1 white flowered example north coast.
<i>Anchusa cretica</i>	an alkanet	Locally common, e.g. Bosco Quarto, above Carpino, Spina Pulci, and Chiancate
<i>Anchusa italica</i>	Large Blue Alkanet	North coast roadsides 2013
<i>Anchusa officinalis</i>	Alkanet	Noted on the first day
<i>Borago officinalis</i>	Borage	Locally common
<i>Buglossoides arvensis</i>	Corn Gromwell	Carbonara valley
<i>Buglossoides purpureo-caerulea</i>	Purple Gromwell	Near Peschici, Passo Ingarano, above Carpino, southern woods, etc.
<i>Cerintho major</i>	Honeywort	Near Vieste etc.
<i>Cynoglossum cheirifolium</i>	a hound's-tongue	Passo Ingarano
<i>Cynoglossum creticum</i>	Blue Hound's-Tongue	West of Vieste
<i>Echium italicum/asperrimum</i>	Pyramidal Bugloss	Last years flower spikes scattered throughout – one or both species present
<i>Echium parviflorum</i>	Small-flowered Viper's-Bugloss	West of Peschici
<i>Echium plantagineum</i>	Purple Viper's-Bugloss	Widespread and locally common
<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, e.g. Bosco Quarto
<i>Onosma echioides</i>	a golden-drop	Pulsano road and gorge, and lower Ruggiano road
<i>Pulmonaria vallarsae</i>	a lungwort	Scattered in woodlands
<i>Pulmonaria</i> spp.	lungworts	Others possibly seen. <i>P.hirta</i> , <i>P.mollis</i> , and <i>P.officinalis</i> also occur.
<i>Symphytum bulbosum</i>	a comfrey	Monte Nero
<i>Symphytum tuberosum</i>	Tuberous Comfrey	Bosco di Spina Pulci

Lamiaceae

<i>Acinos alpinus</i>	Alpine Basil-Thyme	Pulsano Gorge, Peschici
<i>Acinos arvensis</i>	Basil-Thyme	Recorded in the south, e.g. Pulsano Gorge, 2013
<i>Acinos suaveolens</i>	a basil-thyme	Monte Nero 2011
<i>Ajuga chamaepitys</i>	Ground Pine	Widespread and locally common this year
<i>Ajuga genevensis</i>	Blue Bugle	Above Cagnano

<i>Ballota nigra</i>	Black Horehound	Noted in leaf
<i>Corydanthus capitatus</i>	a thyme	Pulsano road etc., widespread in leaf
<i>Lamium album</i>	White Deadnettle	Recorded 2013
<i>Lamium amplexicaule</i>	Henbit Deadnettle	Lake Lesina
<i>Lamium bifidum</i>	a deadnettle	Scattered, e.g. Monte Nero
<i>Lamium garganicum</i>	Large Red Deadnettle	Scattered, e.g on walls and cliffs around Monte St. Angelo.
<i>Lamium hybridum</i>	Cut-leaved Deadnettle	A few records
<i>Lamium maculatum</i>	Spotted Deadnettle	Foresta Umbra
<i>Lamium purpureum</i>	Red Deadnettle	Scattered records
<i>Marrubium incanum</i>	a horehound	Widespread in leaf
<i>Marrubium vulgare</i>	White Horehound	Leaves noted
<i>Mentha aquatica</i>	Water Mint	In leaf at Cento Pozzi
<i>Mentha arvensis</i>	Corn Mint	In leaf
<i>Mentha longifolia</i>	Horse Mint	In leaf
<i>Micromeria graeca</i>		A few records in leaf
<i>Origanum heracleoticum</i>	a marjoram	In leaf at Pulsano sanctuary in the past
<i>Origanum vulgare</i>	Marjoram	Leaves noted
<i>Phlomis herba-venti</i>	a phlomis	Leaves noted in the north
<i>Prasium majus</i>	Prasium	Local, e.g. Passo Ingarano, near Peschici, and Pulsano Gorge
<i>Prunella laciniata</i>	Cut-leaved Self-heal	One along Ruggiano road 2011
<i>Prunella vulgaris</i>	Self Heal	In leaf
<i>Rosmarinus officinalis</i>	Rosemary	On 2 days in the north, and on cliffs south of Monte St. Angelo
<i>Salvia argentea</i>	Silver Sage	Widespread in leaf in the south, in flower Borgo Celano
<i>Salvia officinalis</i>	Sage	In leaf 2013
<i>Salvia verbenaca</i>	Wild Clary	Widespread and common
<i>Salvia verticillata</i>	Whorled Clary	Carbonara valley
<i>Satureja cuneifolia</i>	a savory	Scattered records 2013
<i>Satureja montana</i>	Winter Savory	Peschici
<i>Sideritis romana</i>		Pulsano Gorge and in the north
<i>Sideritis syriaca</i>		= <i>S. italica</i> . In bud this year.
<i>Stachys cretica</i>	Mediterranean Woundwort	Widespread, mostly in bud
<i>Stachys officinalis</i>	Betony	In leaf, Monte Nero
<i>Teucrium chamaedrys</i>	Wall Germander	In leaf
<i>Teucrium flavum</i>	a germander	In leaf 2014
<i>Teucrium polium</i>	Felty Germander	In leaf
<i>Thymus pulegioides</i>	Large Thyme	Scattered records in flower
<i>Thymus serpyllum</i>	Breckland Thyme	Scattered records in flower
<i>Thymus vulgaris</i>	Thyme	Pulsano Gorge in leaf

Solanaceae

<i>Hyoscyamus albus</i>	Henbane	In flower on the walls of Pulsano Sanctuary, and tower near Peschici
<i>Solanum nigrum</i>	Black Nightshade	Near Peschici 2008
<i>Solanum sodomium</i>	Apple of Sodom	One plant near Peschici 2011

Buddlejaceae

<i>Buddleja davidii</i>	Buddleja	Scattered – naturalised or planted
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Scrophulariaceae

<i>Antirrhinum siculum</i>	Sicilian Snapdragon	Common along roads in the north, slowly spreading east! Now on tower near Peschici.
<i>Bellardia trixago</i>	Bellardia	Scattered records, locally common, e.g. <i>Serapias apulica</i> site.
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	On walls at Pulsano Sanctuary, and Monte St. Angelo
<i>Digitalis ferruginea</i>	Rusty Foxglove	Scattered in leaf, e.g. Passo Ingarano
<i>Euphrasia pectinata</i>	an eyebright	Pulsano Gorge
<i>Linaria pelisseriana</i>	Jersey Toadflax	Ruggiano road, Passo Ingarano, etc.
<i>Linaria purpurea</i>	Purple Toadflax	Above Cagnano 2014
<i>Linaria simplex</i>	a toadflax	1 plant in Carbonara valley (peony site) 2008. 2012, 1, Ruggiano road. 2014 Ruggiano road and gorge.
<i>Linaria vulgaris</i>	Common Toadflax	Near Peschici 2007
<i>Misopates orontium</i>	Weasel's Snout	Pulsano Gorge 2014
<i>Parentucellia latifolia</i>	Southern Red Bartsia	Locally common in the hills
<i>Parentucellia viscosa</i>	Yellow Bartsia	Scattered in leaf
<i>Scrophularia canina</i>	French Figwort	Scattered records in leaf this year
<i>Scrophularia peregrina</i>	Nettle-leaved Figwort	Dolina Pozzatina
<i>Scrophularia vernalis</i>	a figwort	In bud in Foresta Umbra 2014
<i>Verbascum densiflorum</i>	a mullein	Roadsides
<i>Verbascum phlomoides</i>	Orange Mullein	North coast dunes
<i>Verbascum phoeniceum</i>	Purple Verbascum	Near Peschici, Passo Ingarano, etc.
<i>Verbascum pulverulentum</i>	Hoary Mullein	Roadsides
<i>Verbascum sinuatum</i>	a mullein	Widespread in leaf
<i>Verbascum thapsus</i>	Aaron's Rod	North Coast
<i>Veronica acinifolia</i>	French Speedwell	Passo Ingarano meadows
<i>Veronica arvensis</i>	Wall Speedwell	Walls in Foresta Umbra etc.
<i>Veronica chamaedrys</i>	Germander Speedwell	Foresta Umbra 2008
<i>Veronica cymbalaria</i>	White Speedwell	Scattered records, e.g. hotel in north
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Recorded
<i>Veronica montana</i>	Wood Speedwell	Foresta Umbra 2012
<i>Veronica persica</i>	Persian Speedwell	Scattered records, e.g. Foresta Umbra
<i>Veronica polita</i>	Grey Field Speedwell	Near Bosco Quarto 2012
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Foresta Umbra

Orobanchaceae

<i>Orobanche alba</i>	Thyme Broomrape	Recorded in the north 2014
<i>Orobanche amethystea</i>	a broomrape	On <i>Eryngium campestre</i> , west of Vieste, 2014
<i>Orobanche caryophyllacea</i>	Clove-scented Broomrape	Pulsano Gorge, parasitic on <i>Galium</i> . A few other records too.
<i>Orobanche gracilis</i>	Slender Broomrape	Pulsano gorge and road, on legumes, and a few other records.
<i>Orobanche lavandulacea</i>	a broomrape	On <i>Psoralea bituminosa</i> , Villa Rosa, 2014
<i>Orobanche loricata</i>	Oxtongue Broomrape	Several near Peschici
<i>Orobanche minor</i>	Common Broomrape	Margherita
<i>Orobanche pubescens</i>	a broomrape	Vieste
<i>Orobanche ramosa</i>	Branched Broomrape	A few records

Myoporaceae

<i>Myoporum laetum</i>	Ngaio	Lake Lesina, native to New Zealand
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Globulariaceae

Globularia punctata Globularia Monte Nero where only one just in flower this year

Plantaginaceae

Plantago afra a plantain Peschici
Plantago albicans Silvery Plantain Pulsano road 2012
Plantago bellardii a plantain North coast etc.
Plantago coronopus Buck's-horn Plantain North coast
Plantago holosteum a plantain Recorded?
Plantago lagopus a plantain Widespread
Plantago lanceolata Ribwort Plantain Scattered throughout
Plantago major Greater Plantain A few records
Plantago serraria a plantain Locally frequent particularly in the north
Plantago subulata a plantain Monte Nero

Caprifoliaceae

Lonicera caprifolium Perfoliate Honeysuckle Bosco Quarto, in leaf
Lonicera etrusca Etruscan Honeysuckle In leaf in the north
Lonicera implexa a honeysuckle North coast in leaf
Lonicera xylosteum Fly Honeysuckle Spina Pulci, in leaf
Sambucus ebulus Dwarf Elder Noted in the north of the peninsula, in leaf 2012
Sambucus nigra Elder Recorded

Valerianaceae

Centranthus ruber Red Valerian Locally common on roadsides in south, and near Vico
Valeriana collina a valerian Locally common in limestone turf in the south
Valerianella dentata Narrow-fruited Corn Salad Scattered in the north
Valerianella locusta Common Corn Salad Widespread. Other species possibly present.

Dipsacaceae

Cephalaria transylvanica Wild Teasel In bud at the tower near Peschici, 2008
Dipsacus fullonum Wild Teasel Last years' dead seed heads in Carbonara Valley, etc.
Scabiosa atropurpurea Mournful Widow Roadsides near Manfredonia, west of Vieste etc.
Scabiosa columbaria Small Scabious Scattered in leaf
Scabiosa dallaportae a scabious Many cushions along Pulsano Gorge

Campanulaceae

Campanula erinus a bellflower Pulsano Sanctuary
Campanula garganica a bellflower Endemic. Just in flower this year in Pulsano Gorge and near Peschici.
Legousia hybrida Venus's Looking Glass Several Passo Ingarano, including white flowered form.
Legousia speculum-veneris Large Venus's Looking Glass In fine flower at *Paeonia peregrina* site, and Villa Rosa, 2014.

Asteraceae

<i>Achillea millefolium</i>	Yarrow	In leaf
<i>Anacyclus tomentosus</i>	Anacyclus	Near Peschici etc.
<i>Anthemis altissima</i>	a chamomile	Possibly this species at Margherita
<i>Anthemis arvensis</i>	Corn Chamomile	Scattered records
<i>Anthemis cotula</i>	Stinking Chamomile	Scattered records
<i>Anthemis maritimus</i>	a chamomile	Along the north coast, with many in flower
<i>Anthemis praecox</i>	a chamomile	Possibly this species in Pulsano Gorge
<i>Anthemis tinctoria</i>	Yellow Chamomile	A few records 2014
<i>Arctium nemorosum</i>	a burdock	Last year's fruiting heads in Foresta Umbra
<i>Artemisia arborescens</i>	a wormwood	Roadsides, Peschici
<i>Artemisia campestris</i>	Field Wormwood	Recorded in the south 2008
<i>Aster tripolium</i>	Sea Aster	Lake Lesina
<i>Bellis perennis</i>	Daisy	Widespread
<i>Bellis sylvestris</i>	Southern Daisy	Widespread, e.g. Bosco di Spina Pulci
<i>Calendula arvensis</i>	Field Marigold	Scattered records
<i>Carduus acicularis</i>	a thistle	Widespread
<i>Carduus macrocephalus</i>	a thistle	Scattered in flower this year, e.g. Passo Ingarano and near Sannicandro
<i>Carduus pycnocephalus</i>	a thistle	Passo Ingarano etc.
<i>Carlina corymbosa</i>	Flat-topped Carline Thistle	Scattered old flowering heads
<i>Carlina vulgaris</i>	Carline Thistle	Old flowering heads widespread
<i>Centaurea alba</i>	a knapweed	In good flower on roadsides, lower Ruggiano road, 2014. Synonym <i>Centaurea deusta</i> .
<i>Centaurea calcitrapa</i>	Red Star Thistle	Scattered records in leaf, e.g. Spina Pulci
<i>Centaurea melitensis</i>	Maltese Star Thistle	In bud near Peschici 2014
<i>Centaurea nicaeensis</i>	a star thistle	In bud at Manfredonia
<i>Centaurea subtilis</i>	a knapweed	Endemic. This was the species with purple flowers and grey foliage in Pulsano gorge. Ruggiano viewpoint in bud.
<i>Centaurea triumfetti</i>	a knapweed	In flower on Chiancate, and in bud Monte Nero
<i>Chrysanthemum coronarium</i>	Crown Daisy	Abundant on motorway verges
<i>Chrysanthemum segetum</i>	Corn Marigold	Noted in the north 2014
<i>Cichorium intybus</i>	Chicory	Manfredonia
<i>Cirsium arvense</i>	Creeping Thistle	Scattered records
<i>Cirsium morisianum</i>	a thistle	Pulsano Gorge etc.
<i>Conyza canadensis</i>	Canadian Fleabane	Pulsano Sanctuary
<i>Crepis rubra</i>	Pink Hawksbeard	Widespread throughout, locally numerous
<i>Crepis sancta</i>	a hawksbeard	Scattered records
<i>Crepis vesicaria</i>	Beaked Hawksbeard	Scattered records
<i>Crepis</i> spp.	hawksbeard spp.	Several other species not identified
<i>Crupina crupinastrum</i>	Crupina	In leaf above Carpino
<i>Cynara cardunculus</i>	Cardoon	In leaf near Vico
<i>Dittrichia graveolens</i>	Stink Aster	Scattered in salt marshes and coastal areas
<i>Dittrichia viscosa</i>	a stink aster	Scattered in leaf
<i>Doronicum columnae</i>	a leopard's bane	Rock faces in the southern hills, e.g. Monte St. Angelo
<i>Doronicum orientale</i>	a leopard's bane	Widespread in woods
<i>Evax pygmaea</i>	Evax	Pulsano Gorge and Ingarano, etc.
<i>Filago pyramidata</i>	Broad-leaved Cudweed	Pulsano Gorge
<i>Galactites tomentosa</i>	Galactites	Widespread
<i>Hedypnois rhagadioloides</i>	Hedypnois	Passo Ingarano, near Peschici etc.
<i>Helichrysum italicum</i>		In leaf above Carpino

<i>Helichrysum stoechas</i>	Helichrysum	Near Peschici
<i>Hieracium</i> spp.	hawkweed spp.	Various species not identified
<i>Hyoseris radiata</i>		Widespread
<i>Hypochoeris achyrophorus</i>	Mediterranean Cat's-ear	Locally very common, e.g. Peschici
<i>Hypochoeris glabra</i>	Smooth Cat's-ear	Widespread
<i>Hypochoeris radicata</i>	Cat's-ear	Scattered records
<i>Inula conyzae</i>	Ploughman's Spikenard	In bud near Dolina Pozzatina 2014
<i>Inula crithmoides</i>	Golden Samphire	Lake Lesina
<i>Inula verbascifolia</i>		Common in leaf very locally in Pulsano gorge, Monte St. Angelo, and Ruggiano road cliffs
<i>Jurinea mollis</i>	Jurinea	In bud in Pulsano Gorge 2011
<i>Lapsana communis</i>	Nipplewort	Recorded 2012
<i>Leontodon</i> sp.	a hawkbit	Pulsano road, <i>Limodorum anabrochium</i> site, etc.
<i>Matricaria chamomilla</i>	Scented Mayweed	Scattered
<i>Otanthus maritimus</i>	Cottonweed	North coast, in leaf
<i>Pallenis spinosa</i>		Near Peschici
<i>Phagnalon rupestre</i>		Pulsano gorge, in bud, and lower Ruggiano road
<i>Picris echioides</i>	Bristly Ox-Tongue	Scattered records, e.g. Pulsano gorge
<i>Reichardia picroides</i>		Widespread
<i>Rhagadiolus edulis</i>	a star hawk-bit	Pulsano gorge
<i>Rhagadiolus stellatus</i>	Star Hawk-bit	Widespread in the north
<i>Scorzonera hirsuta</i>	a viper's grass	Passo Ingarano
<i>Scorzonera laciniata</i>	Cut-leaved Viper's Grass	Recorded in the south 2008
<i>Senecio squalidus</i>	Oxford Ragwort	Scattered records
<i>Senecio tenorei</i>	a ragwort	Chiancate and Bosco Quarto, in bud
<i>Senecio vulgaris</i>	Groundsel	Scattered records
<i>Silybum marianum</i>	Milk Thistle	Scattered throughout, locally common
<i>Sonchus arvensis</i>	Field Sow-Thistle	Near Peschici 2011
<i>Sonchus asper</i>	Prickly Sow-thistle	Widespread
<i>Sonchus oleraceus</i>	Smooth Sow-Thistle	Scattered records
<i>Sonchus tenerrimus</i>	a sow-thistle	Scattered records, e.g. <i>Serapias apulica</i> site
<i>Taraxacum officinale</i>	Dandelion	Scattered
<i>Taraxacum laevigatum</i>	a dandelion	Probably this species Monte Nero and Chiancate
<i>Tragopogon crocifolius</i>	a goat's-beard	Purple flowers much exceeded by the bracts. Peschici.
<i>Tragopogon pratensis</i>	Goat's-beard	Scattered 2013
<i>Tyrimnus leucographus</i>	Tyrimnus	Ruggiano viewpoint
<i>Urospermum dalechampii</i>	Urospermum	Widespread
<i>Urospermum picroides</i>		Locally common
<i>Xanthium strumarium</i>	Rough Cocklebur	Old fruiting plants on northern shores
<i>Xeranthemum inapterum</i>		Pulsano road 2013, Borgo Celano 2014

Monocotyledones

Lemnaceae

Lemna minor Common Duckweed Pools at 100 Dolinas

Ruppiaceae

Ruppia maritima Tassel Pondweed Channel at Margherita Saltpans

Liliaceae

Allium neapolitanum Naples Garlic Local along the north coast 2013
Allium nigrum a garlic Noted in the north of the peninsula, *Paeonia peregrina* site, 2014
Allium pendulinum a garlic Locally common in hill woods
Allium roseum Rosy Garlic Locally common, e.g. near Vieste
Allium subhirsutum a garlic Scattered, locally common
Allium trifoliatum a garlic Pulsano gorge
Allium ursinum Ramsons Foresta Umbra, in flower
Asparagus acutifolius an asparagus Widespread
Asphodeline lutea Yellow Asphodel Widespread in the south and locally abundant as near San Giovanni Rotundo
Asphodeline liburnica a yellow asphodel Noted in leaf at various sites, e.g. Spina Pulci
Asphodelus albus White Asphodel In bud on Monte Nero
Asphodelus fistulosus Hollow-stemmed Asphodel Locally very common
Asphodelus microcarpus Common Asphodel Widespread and very common
Asphodelus tenuifolius an asphodel A few records
Bellevalia romana 1 near Peschici 2005. 2013 1 near Chiancate.
Gagea chrysantha 1 in the Bosco Quarto in flower 2011, and in 2012 circa 20 there. 2013 and 2014 all in fruit. 2015, 2 in flower.
Lilium bulbiferum Orange Lily Leaves Bosco Quarto
Muscari comosum Tassel Hyacinth Widespread and locally very common
Muscari neglectum Common Grape Hyacinth Widespread and locally common
Ornithogalum collinum a star of Bethlehem Scattered records
Ornithogalum divergens a star of Bethlehem Widespread in the north
Ornithogalum montanum a star of Bethlehem Bosco Quarto
Ornithogalum narbonense a star of Bethlehem Wild at Bari Airport
Ornithogalum umbellatum Star of Bethlehem Carbonara Valley
Polygonatum multiflorum Common Solomon's Seal Bosco Quarto etc.
Polygonatum odoratum Angular Solomon's Seal Bosco Quarto 2012
Ruscus aculeatus Butcher's Broom Passo Ingarano etc.
Scilla bifolia Alpine Squill Gone over along Pulsano road (last stop) 2014
Smilax aspera Common Smilax Locally very common
Tulipa sylvestris Wild Tulip Several in the Carbonara Valley, flowering in arable fields.
Urginea maritima Sea Squill Widespread in leaf, and old spikes

Agavaceae

Agave americana Century Plant A few noted

Amaryllidaceae

<i>Galanthus nivalis</i>	Snowdrop	Leaves in Foresta Umbra
<i>Narcissus poeticus</i>	Pheasant's-eye Daffodil	Locally very common in the hills
<i>Narcissus tazetta</i>	Polyanthus Narcissus	Chiancate, one still in flower this year. Also in fruit Ruggiano road, and several other sites.
<i>Pancratium maritimum</i>	Sea Daffodil	Leaves in north coast dunes

Dioscoraceae

<i>Tamus communis</i>	Black Bryony	Scattered records
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Iridaceae

<i>Gladiolus communis</i>	a gladiolus	<i>Serapias apulica</i> site 2014
<i>Gladiolus italicus</i>	Field Gladiolus	Scarce in 2011, but many in one field near Villa Rosa. 2012 Varano roadsides etc. 2013 several in the north. 2014 scattered records, locally common. 2015 west of Vieste.
<i>Crocus longiflorus</i>	a crocus	In leaf at Chiancate and in Bosco Quarto
<i>Hermodactylus tuberosus</i>	Widow Iris	Widespread but all in fruit this year
<i>Iris bicapitata</i>	an iris	A few of this endemic species south of Carpino
<i>Iris foetidissima</i>	Gladdon	In fruit and leaf in Foresta Umbra
<i>Iris germanica</i>	Tall Bearded Iris	Scattered by roadsides etc., naturalised
<i>Iris lutescens</i>	an iris	Widespread and locally abundant – this iris is usually purple, although a few yellow flowered forms seen near Ruggiano etc.
<i>Iris pseudacorus</i>	Yellow Flag	Vasca del Lago Salso, in fine flower, 2008
<i>Iris pseudopumila</i>	an iris	Scattered records this year
<i>Gynandiris sisyrinchium</i>	Barbary Nut	Villa Rosa
<i>Romulea bulbocodium</i>		Just 1 on Chiancate, 2006. 2012, 2 there gone over. 2013 and 2014 gone over at several sites.

Palmae

<i>Phoenix dactylifera</i>	Date Palm	Noted in the north
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Araceae

<i>Arisarum vulgare</i>	Friar's Cowl	Leaves only
<i>Arum italicum</i>	Italian Lords-and-Ladies	Widespread and locally common
<i>Arum maculatum</i>	Lords-and-Ladies	Noted in leaf

Typhaceae

<i>Typha angustifolia</i>	Lesser Reedmace	Lake Lesina
<i>Typha latifolia</i>	Great Reedmace	Southern wetlands

Juncaceae

<i>Luzula campestris</i>	Field Woodrush	Carpino area etc.
<i>Luzula pilosa</i>	Hairy Woodrush	Foresta Umbra
<i>Luzula forsteri</i>	Narrow-leaved Woodrush	Foresta Umbra, Spina Pulci, etc.
<i>Juncus acutus</i>	Sharp Rush	Margherita area
<i>Juncus littoralis</i>	a rush	Lake Lesina

Juncus maritimus

Sea Rush

Margherita saltmarshes

Poaceae

Aegilops geniculata

Aira caryophylla

Alopecurus myosuroides

Ammophila arenaria

Ampelodesmos mauretanicus

Anisantha diandra

Anisantha madritensis

Anthoxanthum odoratum

Arundo donax

Avena barbata

Avena fatua

Brachypodium sylvaticum

Briza maxima

Briza media

Bromus erectus

Bromus hordeaceus

Bromus rigidus

Catapodium marinum

Catapodium rigidum

Dactylis glomerata

Elytigia farcta

Festuca gigantea

Festuca rubra

Gastridium ventricosum

Hordeum murinum

Hypparrhenia hirta

Lagurus ovatus

Lolium perenne

Melica uniflora

Parapholis incurva

Phalaris paradoxa

Phleum pratense

Phragmites australis

Poa annua

Poa bulbosa

Poa compressa

Poa pratensis

Rotraria cristata

Setaria pumila

Stipa capensis

Stipa pennata

Silver Hair-grass

Black Grass

Marram-grass

Great Brome

Compact Brome

Sweet Vernal-grass

Giant Reed

Bearded Wild-oat

Common Wild-oat

Wood False-brome

Large Quaking-grass

Common Quaking-grass

Upright Brome

Soft Brome

Stiff Brome

Darnel-fescue

Fern-grass

Cock's-foot

Sand Couch

Giant Fescue

Red Fescue

Nit Grass

Wall Barley

Hare's-tail

Perennial Rye-grass

Mountain Melick

Curved Hard-grass

a canary-grass

Timothy

Reed

Annual Meadow-grass

Bulbous Meadow-grass

Flattened Meadow-grass

Smooth Meadow-grass

Crested Hair-grass

Yellow Bristle-grass

Mediterranean Needle-grass

Needle-grass

Passo Ingarano, near Peschici, etc.

Manfredonia, near Peschici, etc.

Arable weed Carbonara Valley 2015.

North coast dunes

Northern roadsides

Scattered records

Pulsano Gorge and the north

Widespread and very common

Locally common

Local

Widespread

Scattered records

Locally very common

Scattered records

Scattered records

Scattered

Recorded

North coast dunes

Scattered in the north

Widespread and frequent

North coast dunes

Scattered, e.g. near Vieste

Near Carpino

Scattered records

Locally abundant

Locally common in flower

Locally common, north coast dunes etc.

Scattered

Near Peschici

Near Peschici

Near Peschici

Scattered

Forming extensive beds on lake shores

Widespread and common

Viviparous. Common.

Local

Scattered

North coast 2015

Locally common in the north, and Pulsano

Widespread and locally dominant

This species, or perhaps *Stipa austroitalica*,
in the Manfredonia area and west of Vieste

Cyperaceae

Carex caryophylla

Carex flacca

Carex olbiensis

Carex remota

Carex sylvatica

Cladium mariscus

Cyperus capitatus

Eleocharis palustris

Schoenus nigricans

Spring Sedge

Glaucous Sedge

a sedge

Remote Sedge

Wood Sedge

Great Fen-sedge

Sand Sedge

Common Spike-rush

Black Bog-rush

Widespread in grassland

Locally common in grassland

Scattered records

Recorded 2015

Scattered records

Camping Viola

Northern dunes in fine flower

Recorded 2008

Lake Lesina 2008

Orchidaceae

<i>Aceras anthropophorum</i>	Man Orchid	Widespread and locally common. Seen most days.
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	The usual colony near Vieste was in fine flower. Also seen elsewhere in the north this year.
<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. 2008:- reasonable condition on Passo Ingarano, and c.4 in San Giovanni. 2011:- several over, a few flowers still in San Giovanni Rotundo. 2012:-, over at several sites but still with some colour at various sites, most remarkably at sea level at Margherita Saltpans. 2013 and 2014:- mostly gone over. 2015 gone over.
<i>Cephalanthera damasonium</i>	White Helleborine	A few in fine flower 2008, near Vico del Gargano. In early bud 2011. 2012 leaves only just appearing. 2013 two in flower. 2014 a few in flower. 2015 in leaf.
[<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	2007:- 1 in fine flower in Foresta Umbra
<i>Dactylorhiza maculata</i>	Heath Spotted Orchid	2013:- in fine flower in Foresta Umbra 2006:- 2 in fine flower near Chiancate 2007:- only in leaf and bud 2008:- 2 in fine flower near Chiancate, 3 at Monte Nero 2011:- only in leaf and bud. 2012 and 2013:- only in leaf and bud. 2014 :-a robust example near Chiancate, and a few others in flower. 2015 in leaf.
<i>Dactylorhiza romana</i>	Roman Orchid	2007:- 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. 2008:- only above Carpino and Bosco Quarto 2011:- Locally common Spina Pulci, Carpino, Foresta Umbra, and Bosco Quarto. All of yellow form. 2012, 2013, 2014, and 2015:- as in 2011.
<i>Dactylorhiza sambucina</i>	Elder-flowered Orchid	Small numbers in the Bosco Quarto and Monte Nero areas.
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	Leaves seen near Vico del Gargano
<i>Epipactis microphylla</i>	Small-leaved Helleborine	Leaves seen near Vico del Gargano
[<i>Gymnadenia conopsea</i>	Fragrant Orchid	In early bud near Vieste, 2012. 2014 :- several almost in flower at one site along the Pulsano road.]
<i>Himantoglossum hircinum</i>	Lizard Orchid	In bud along Ruggiano road and Alta Murgia 2012. 2013 and 2014 in leaf and bud at a few sites. 2014 almost in flower in Carbonara Valley. 2015 in bud.
[<i>Limodorum abortivum</i>	Violet Birdsnest	Several seen near Vico 2008. 2013 two spikes seen. 2014 :- 1 above Cagnano.]
<i>Listera ovata</i>	Common Twayblade	Leaves and early shoots in Bosco Quarto

<i>Neotinea intacta</i>	Dense-flowered Orchid	and Monte Nero 2014 several in flower near Carpino, 1 in Spina Pulci, and Monte Nero. 2015 1 in bud near Carpino.
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	Old seed heads noted in hill forests 2008. Only one old seed head, Bosco Quarto, 2012. 2013 only old seed heads. 2014 :- a few in good flower. 2015 just coming out, Bosco Quarto.
<i>Ophrys apulica</i>	Apulian Ophrys	Endemic. This fine large and bright flowered species seen near Peschici and near Vieste. Also found in the hills in the south. Many fine examples this year.
<i>Ophrys archipelagi</i>		This odd bee orchid was formerly included in the 'arachnitiformis' species complex. Still little understood. Several on Passo Ingarano, in fine condition 2012, gone over 2013 and 2014. 2015 a few on Passo Ingarano.
<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 'saratoi' form with a pink-hued speculum.
<i>Ophrys bertoloniiiformis</i>		Endemic. Quite common around Monte St Angelo and elsewhere in the southern hills. (Also Passo Ingarano in 2008.)
<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. 2007:- only Spina Pulci (3), and several in Carbonara valley. 2011:- Spina Pulci, en route to Monte St. Angelo, and Monte Nero. 2012:- fine examples on 5 days. 2013:- seen on 7 days. 2014:- Spina Pulci, Monte Nero, Peschici etc. 2015:- several sites.
<i>Ophrys bombyliflora</i>	Bumble-Bee Orchid	Widespread. Seen near Peschici, near Vieste, Pulsano road, Ruggiano road, and Passo Ingarano.
[<i>Ophrys fuciflora</i>	Late Spider Orchid	A few on Passo Ingarano, 2008 2012:- 2 just coming into flower Pulsano Gorge 2013:- <i>Paeonia peregrina</i> site 2014:- <i>Paeonia peregrina</i> site and Passo Ingarano]
<i>Ophrys funerea</i>	Dull Ophrys	Very scarce, a few near Carbonara Valley, 2011. Also Passo Ingarano 2008. 2012:- many at the Carbonara Valley site. 1 Pulsano road. 2013:- many at the Carbonara valley site. 2014:- a few at the Carbonara valley site. 2015:- many at the Carbonara valley site.

<i>Ophrys garganica</i>	Gargano Ophrys	Endemic to Southern Italy. Widespread and often common. Seen most days.
<i>Ophrys incubacea</i> <i>Ophrys lupercalis</i>	Dark Ophrys	Widespread in small numbers 2007:- Just one seen, near the Carbonara Valley. 2011:- 3 along Pulsano road. 2012:- 1 along Pulsano road. 2014 and 2015:- A few at one site along Pulsano road.
<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. Pulsano road, near Vieste, etc.
[<i>Ophrys melena</i>		Perhaps one of this controversial taxon seen near Manfredonia 2012]
<i>Ophrys oestrifera</i>		Nominate subspecies. Noted from near Peschici only – 20+ plants 2008. 2011:- only 2, but fine specimens. 2012:- c.15 fine specimens. (<i>O.cornuta</i>) 2013 and 2014:- many fine examples. 2015:- only 2 seen.
<i>Ophrys parvimaclulata</i>	Small-patterned Ophrys	Endemic. A distinctive rather pastel-shaded species. A few fine examples, on Passo Ingarano.
<i>Ophrys phryganae</i> <i>Ophrys promontorii</i>		Widespread and reasonably common Endemic. Quite common in the hills around Monte St Angelo, and above Carpino.
<i>Ophrys sphegodes</i>	Early Spider Orchid	Scattered records, e.g. Pulsano Gorge and Bosco Quarto.
<i>Ophrys sicula</i> <i>Ophrys sipontensis</i>	Siponto Ophrys	Scattered records. A very rare local endemic. A few this year, along the Ruggiano road.
<i>Ophrys tenthredinifera</i> <i>Ophrys virescens</i>	Sawfly Orchid	Widespread and locally common Very local on Chiancate. c.20 plants seen 2011. 2012 and 2013, c.30 in fine condition. 2014:- c.20 on Chiancate. 2015:- 45 on Chiancate.
<i>Ophrys hybrids</i>		
The following probable hybrids were seen:-		
<i>Ophrys bertolonii</i> x <i>promontorii</i>		Pulsano road
<i>Ophrys garganica</i> x <i>promontorii</i>		
<i>Ophrys incubacea</i> x <i>garganica</i>		
<i>Ophrys tenthredinifera</i> x <i>promontorii</i>		
The following hybrids have been recorded in the past:-		
[<i>Ophrys archipelagi</i> x <i>parvimaclulata</i>		Apparently this hybrid Passo Ingarano 2013]
[<i>Ophrys bertolonii</i> x <i>tenthredinifera</i>		Probably this hybrid along Pulsano road, several fine plants 2011] 2012, possibly this hybrid]
[<i>Ophrys bertolonii</i> x <i>biscutella</i>		Apparently this hybrid 2013]
[<i>Ophrys bertolonii</i> x <i>promontorii</i>		2008 :- possibly 1 near Peschici]
[<i>Ophrys oestrifera</i> x <i>apulica</i>		2008 :- Passo Ingarano]
[<i>Ophrys parvimaclulata</i> x <i>exaltata</i>		2008 :- Passo Ingarano]
[<i>Ophrys parvimaclulata</i> x <i>tenthredinifera</i>		

[<i>Ophrys promontorii</i> x <i>sipontensis</i>]		2007:- Probably this hybrid along the Ruggiano road. Also 2012.]
[<i>Ophrys sipontensis</i> x <i>bertolonii</i>]		2012, Ruggiano road]
[<i>Orchis collina</i> [<i>Orchis fragrans</i>	Fan-lipped Orchid Fragrant Bug Orchid	Gone over near Borgo Celano 2008] 2007:- Some 15 in fine flower near Vieste, Not seen there since 2003. Also one in Pulsano Gorge. 2011 not possible to visit Vieste site due to road closure. 2012 not found. 2013 not found. 2014:- c.20 in fine flower near Vieste, and also found Pulsano road and gorge, and 1 near Manfredonia.]
<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 mostly already over this year.
<i>Orchis morio</i>	Green-winged Orchid	Widespread - very common in the hills. Seen daily.
<i>Orchis picta</i>		The Mediterranean vicariant of Green-winged Orchid and perhaps doubtfully distinct. A few plants noted.
<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. Also Monte Nero.
<i>Orchis provincialis</i>	Provence Orchid	Very scarce. Seen only in the northern part of Foresta Umbra.
<i>Orchis purpurea</i> <i>Orchis quadripunctata</i>	Lady Orchid Four-spotted Orchid	Widespread. Superb near Vico in particular. 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 a number of sites in 2014, in good flower. Above Cagnano, Ruggiano road, Pulsano road etc.]
<i>Orchis ustulata</i>	Burnt-tip Orchid	Widespread though usually in small numbers - though quite common in places along the Pulsano road etc.
<i>Orchis morio</i> x <i>papilionacea</i>		Not uncommon where the two parents grew together. <i>Orchis</i> x <i>debeauxii</i>
<i>Orchis pauciflora</i> x <i>quadripunctata</i> <i>Orchis italica</i> x <i>Aceras anthropophorum</i>		3 on Chiancate? This striking hybrid was seen along Pulsano road 2013 and 4+ in 2014. 1 in 2015.
<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. 2008:- 1 in late bud on Passo Ingarano 2012:- in bud Monte Nero 2013 and 2014:- in leaf and bud Bosco Quarto and Monte Nero. 2015 in leaf
<i>Serapias apulica</i>	Apulian Serapias	Endemic to Southern Italy. Seen beside the motorway near Manfredonia, several this year.

Serapias lingua
Serapias parviflora
Serapias orientalis
Serapias vomeracea

Tongue Orchid
Small-flowered Serapias
Plough-share Serapias

Widespread and reasonably common
Near Peschici, *Serapias apulica* site, etc.
Pulsano Gorge, *Serapias apulica* site, etc.
Widespread - the commonest tongue
orchid. Some fine tall specimens seen.
2012 many fewer than usual, with most
seen only in bud.
2013, 2014, and 2015 seen at many sites.

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. Species recorded on previous tours but not this year are put in square brackets.

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Widespread and rather common, seen on 7 days
Scarce Swallowtail	<i>Iphiclides podalirius</i>	Seen on 4 days, e.g. <i>Paeonia peregrina</i> site
Southern Festoon	<i>Zerynthia polyxena</i>	Seen on 4 days, e.g. <i>Paeonia peregrina</i> site

Pieridae

Large White	<i>Pieris brassicae</i>	Scattered in small numbers
Small White	<i>Artogeia rapae</i>	Scattered records
Green-veined White	<i>Artogeia napi</i>	Scattered records
[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>	Seen on 3 days
Eastern Dappled White	<i>Euchloe ausonia</i>	Pulsano Gorge, near Peschici, etc., seen on 5 days
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>	Pulsano
Cleopatra	<i>Gonepteryx cleopatra</i>	Scattered records
Brimstone	<i>Gonepteryx rhamni</i>	Widespread
Wood White	<i>Leptidea sinapis</i>	Seen on 4 days

Lycaenidae

Green Hairstreak	<i>Callophrys rubi</i>	Widespread in small numbers
Small Copper	<i>Lycaena phlaeas</i>	Seen on 2 days
[Lesser Fiery Copper	<i>Lycaena thersamon</i>	A male near Peschici 2012 was a good record]
Little Blue	<i>Cupido minimus</i>	Pulsano gorge, Carbonara valley
Holly Blue	<i>Celastrina argiolus</i>	Widespread
Green-underside Blue	<i>Glaucopsyche alexis</i>	West of Vieste and Pulsano
Baton Blue	<i>Pseudophilotes baton</i>	Pulsano road and gorge, and Day 3
Brown Argus	<i>Aricia agestis</i>	Seen on 2 days
Chapman’s Blue	<i>Agrodiaetus thersites</i>	Pulsano road and gorge, and Ruggiano road. Locally very common.
Adonis Blue	<i>Lysandra bellargus</i>	Seen on 2 days
Common Blue	<i>Polyommatus icarus</i>	Scattered records

Nymphalidae

Large Tortoiseshell	<i>Nymphalis polychloros</i>	1 on the transfer day
Painted Lady	<i>Cynthia cardui</i>	Widespread
Red Admiral	<i>Vanessa atalanta</i>	Scattered records
Comma	<i>Polygonia c-album</i>	1 in Pulsano Gorge
[Southern Comma	<i>Polygonia egea</i>	2 larvae on <i>Parietaria</i> near Peschici 2013]
Queen-of-Spain Fritillary	<i>Issoria lathonia</i>	Pulsano Road
Glanville Fritillary	<i>Melitaea cinxia</i>	A few records
[Knapweed Fritillary	<i>Melitaea phoebe</i>	Some rather atypically coloured examples at Cento Pozzi 2013]
Spotted Fritillary	<i>Melitaea didyma</i>	Larvae at various sites, on <i>Plantago</i> etc.
Heath Fritillary	<i>Mellicta athalia</i>	Larvae seen.

[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, 2007.]
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Satyridae

Italian Marbled White	<i>Melanargia arge</i>	A few in the south
Small Heath	<i>Coenonympha pamphilus</i>	Widespread and reasonably common
Meadow Brown	<i>Maniola jurtina</i>	Day 3
Wall Brown	<i>Lasiommata megera</i>	Widespread and reasonably common
[Large Wall Brown	<i>Lasiommata maera</i>	A few records 2014]
Speckled Wood	<i>Pararge aegeria</i>	Widespread

Hesperiidae

Grizzled Skipper	<i>Pyrgus malvae</i>	Seen on 2 days
[Rosy Grizzled Skipper	<i>Pyrgus onopordae</i>	Carbonara valley 2013]
[Red Underwing Skipper	<i>Spialia sertorius</i>	1 near Vieste, 2007]
Mallow Skipper	<i>Carcharodus alceae</i>	Peschici, Pulsano
[Marbled Skipper	<i>Carcharodus lavatherae</i>	Recorded 2014]
[Dingy Skipper	<i>Erynnis tages</i>	1 on Chiancate 2011]

Systematic List Number 3 Birds

Little Grebe	<i>Tachybaptus ruficollis</i>	A few on Lake Lesina
Great Crested Grebe	<i>Podiceps cristatus</i>	A few on Lake Lesina, and Margherita
Cormorant	<i>Phalacrocorax carbo</i>	North coast and southern wetlands
Pygmy Cormorant	<i>Phalacrocorax pygmeus</i>	1 Lake Lesina, 2+ Margherita
Greater Flamingo	<i>Phoenicopterus phoenicopterus</i>	Very many at the Margherita Saltpans
Squacco Heron	<i>Ardeola ralloides</i>	Lake Lesina and Margherita wetlands
Little Egret	<i>Egretta garzetta</i>	Manfredonia wetlands, Lake Lesina, and Day 1
Great Egret	<i>Egretta alba</i>	Lake Lesina and Margherita wetlands
Grey Heron	<i>Ardea cinerea</i>	Lake Lesina
White Stork	<i>Ciconia ciconia</i>	On a nest at Manfredonia
Spoonbill	<i>Platalea leucorodia</i>	3+ in southern wetlands
Shelduck	<i>Tadorna tadorna</i>	Several at Margherita Saltpans
Mallard	<i>Anas platyrhynchos</i>	Lake Lesina and the south
Garganey	<i>Anas querquedula</i>	4 at Margherita wetlands
Shoveler	<i>Anas clypeata</i>	2 at Margherita wetlands
Pochard	<i>Aythya ferina</i>	Lake Lesina
Ferruginous Duck	<i>Aythya nyroca</i>	2 at Lake Lesina
Red-breasted Merganser	<i>Mergus serrator</i>	4 Margherita wetlands
Buzzard	<i>Buteo buteo</i>	Widespread in small numbers
Marsh Harrier	<i>Circus aeruginosus</i>	Widespread in small numbers, e.g. Lake Lesina
Montagu's Harrier	<i>Circus pygargus</i>	2+ on the arrival day, 1 on the second day
Sparrowhawk	<i>Accipiter nisus</i>	Arrival day
Booted Eagle	<i>Hieraaetus pennatus</i>	Dark phase birds on 2 days
Kestrel	<i>Falco tinnunculus</i>	Widespread
Lesser Kestrel	<i>Falco naumanni</i>	Lake Lesina and southern lowlands
Red-footed Falcon	<i>Falco vespertinus</i>	20+ in the southern lowlands
Water Rail	<i>Rallus aquaticus</i>	Heard at Lake Lesina
Moorhen	<i>Gallinula chloropus</i>	Lake Lesina
Coot	<i>Fulica atra</i>	Numerous on Lake Lesina, and at Margherita
Oystercatcher	<i>Haematopus ostralegus</i>	6+ Margherita
Black-winged Stilt	<i>Himantopus himantopus</i>	Several at the Margherita Saltpans, and Lake Lesina
Avocet	<i>Recurvirostra avosetta</i>	Rather common at Margherita Saltpans
Kentish Plover	<i>Charadrius alexandrinus</i>	1 only, at Margherita Saltpans
Sanderling	<i>Calidris alba</i>	2 north coast
Ruff	<i>Philomachus pugnax</i>	1 at Margherita Saltpans
Spotted Redshank	<i>Tringa erythropus</i>	c.6 in breeding plumage at Margherita Saltpans
Greenshank	<i>Tringa nebularia</i>	Margherita
Wood Sandpiper	<i>Tringa glareola</i>	Margherita Saltpans
Common Sandpiper	<i>Actitis hypoleuca</i>	A few wetland records
Mediterranean Gull	<i>Larus melanocephalus</i>	Margherita Saltpans, breeding plumage
Black-headed Gull	<i>Larus ridibundus</i>	Lake Lesina and Margherita Saltpans
Yellow-legged Herring Gull	<i>Larus cachinnans</i>	Widespread and locally numerous
Slender-billed Gull	<i>Larus genei</i>	Common at Margherita Saltpans
Sandwich Tern	<i>Sterna sandvicensis</i>	Margherita Saltpans
Common Tern	<i>Sterna hirundo</i>	Margherita Saltpans
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 records near habitation
Cuckoo	<i>Cuculus canorus</i>	Heard often, seen on four days
Ring-necked Parakeet	<i>Psittacula krameri</i>	Seen near Molfetta

Scops Owl	<i>Otus scops</i>	Heard at the hotel in the north
Common Swift	<i>Apus apus</i>	Widespread and common
Alpine Swift	<i>Apus melba</i>	North coast etc.
Common Kingfisher	<i>Alcedo atthis</i>	1 at Lake Lesina
European Bee-eater	<i>Merops apiaster</i>	Lake Lesina
Hoopoe	<i>Upupa epops</i>	Widespread in small numbers, seen most Days
Wryneck	<i>Jynx torquilla</i>	Heard on the second day
Green Woodpecker	<i>Picus viridis</i>	Heard several times in the forested hills
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Widespread
Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	Heard on Monte Nero.
Crested Lark	<i>Galerida cristata</i>	Scattered records
Woodlark	<i>Lullula arborea</i>	A few records
Skylark	<i>Alauda arvensis</i>	Seen in the south
Swallow	<i>Hirundo rustica</i>	Widespread and common
Red-rumped Swallow	<i>Hirundo daurica</i>	On two days in the north
House Martin	<i>Delichon urbica</i>	Widespread
Tree Pipit	<i>Anthus trivialis</i>	Day 3
Grey-headed Wagtail	<i>Motacilla flava cinereocapilla</i>	A few at Margherita. Other subspecies possibly present too.
White Wagtail	<i>Motacilla alba</i>	A few records
Wren	<i>Troglodytes troglodytes</i>	Heard often
Blue Rock Thrush	<i>Monticola solitarius</i>	Ruggiano road view point and Pulsano Gorge
Common Redstart	<i>Phoenicurus phoenicurus</i>	Day 5
Stonechat	<i>Saxicola torquata</i>	Day 5
Black-eared Wheatear	<i>Oenanthe hispanica</i>	A male on Day 6
Robin	<i>Erithacus rubecula</i>	Scattered records
Nightingale	<i>Luscinia megarhynchos</i>	Heard often
Blackbird	<i>Turdus merula</i>	Widespread
Mistle Thrush	<i>Turdus viscivorus</i>	Day 8
Cetti's Warbler	<i>Cettia cetti</i>	Often heard in the north
Fan-tailed Warbler	<i>Cisticola juncidis</i>	Scattered records
Great Reed Warbler	<i>Acrocephalus arundinaceus</i>	Heard at lake Lesina
Sardinian Warbler	<i>Sylvia melanocephala</i>	Widespread
Subalpine Warbler	<i>Sylvia cantillans</i>	Widespread
Lesser Whitethroat	<i>Sylvia curruca</i>	Heard occasionally
Common Whitethroat	<i>Sylvia communis</i>	Seen on 2 days
Garden Warbler	<i>Sylvia borin</i>	Heard at various sites
Blackcap	<i>Sylvia atricapilla</i>	Widespread and reasonably common
Bonelli's Warbler	<i>Phylloscopus bonelli</i>	Monte Nero
Chiffchaff	<i>Phylloscopus collybita</i>	A few records
Goldcrest	<i>Regulus regulus</i>	Heard occasionally
Firecrest	<i>Regulus ignicapillus</i>	Heard occasionally
Blue Tit	<i>Parus caeruleus</i>	Widespread
Great Tit	<i>Parus major</i>	Widespread
Nuthatch	<i>Sitta europaea</i>	Widespread in woodlands
Penduline Tit	<i>Remiz pendulinus</i>	Seen very well at Lake Lesina, where nesting.
Golden Oriole	<i>Oriolus oriolus</i>	Heard often, seen on Day 8
Woodchat Shrike	<i>Lanius senator</i>	Day 2
Magpie	<i>Pica pica</i>	Very common. Noted daily.
Jay	<i>Garrulus glandarius</i>	Widespread
Jackdaw	<i>Corvus monedula</i>	Widespread
Hooded Crow	<i>Corvus corone cornix</i>	Widespread. Noted daily.
Raven	<i>Corvus corax</i>	Pulsano gorge
Starling	<i>Sturnus vulgaris</i>	Widespread

Italian Sparrow	<i>Passer domesticus italiae</i>	Widespread. Noted daily.
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
Linnet	<i>Carduelis cannabina</i>	A few records
Cirl Bunting	<i>Emberiza cirlus</i>	Widespread in small numbers
Corn Bunting	<i>Miliaria calandra</i>	Widespread

Systematic List Number 4

Italian Crested Newt	<i>Triturus carnifex</i>
Toad species	<i>Bufo</i> sp.
Southern Italian Marsh Frog	<i>Pelophylax hispanicus</i>
European Pond Terrapin	<i>Emys orbicularis</i>
Moorish Gecko	<i>Tarentola mauritanica</i>
Green Lizard	<i>Lacerta bilineata</i>
Italian Wall Lizard	<i>Podarcis sicula</i>
Common Wall Lizard	<i>Podarcis muralis</i>
Italian Three-toed Skink	<i>Chalcides chalcides</i>
Western Whip Snake	<i>Coluber viridiflavus</i>
Four-lined Snake	<i>Elaphe quatuorlineata</i>
Dice Snake	<i>Natrix tessellata</i>
Smooth Snake	<i>Coronella austriaca</i>

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Western Hedgehog	<i>Erinaceus europaeus</i>
Roman Mole	<i>Talpa romana</i>
Serotine	<i>Eptesicus serotinus</i>
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>
Savi's Pipistrelle	<i>Hypsugo savii</i>
Fox	<i>Vulpes vulpes</i>
Weasel	<i>Mustela nivalis</i>
Red Squirrel	<i>Sciurus vulgaris</i>
Bank Vole	<i>Clethrionomys glareolus</i>
Savi's Pine Vole	<i>Pitymys savii</i>
Hare	<i>Lepus europaeus</i>
Wild Boar	<i>Sus scrofa</i>

Amphibians and Reptiles

A few in a pond at Cento Pozzi
At the hotel near Rodi
Numerous at 100 Dolinas, heard in the north
Cento Pozzi 2014
Rather common in Pulsano Gorge, also Ruggiano view point, and Margherita
On 2 days in the north
Widespread and common
Foresta Umbra and probably elsewhere
Pulsano road and Day 7 2013
Four seen in 2013.
Dark phase animals near Carbonara Valley, near Cento Pozzi, and Pulsano Gorge. A dark green animal in Carbonara Valley.
2015 one dead individual.
A fine large individual at Lake Lesina 2013. 2014 a large individual at Villa Rosa (PGC). 2 (+1?) seen very well Pulsano Gorge 2015.
1 in a pond at 100 Dolinas 2013. 2015 a dead individual.
A dead individual.

Mammals

Road casualties
Hills common. A dead individual on Passo Ingarano 2013.
Pulsano Sanctuary. Echolocation frequency 23-27 kHz. 2014.
North coast. Echolocation frequency 44-47 kHz. 2014.
Pulsano Sanctuary. Echolocation frequency 32-37(?) kHz. 2014.
One road casualty 2008. Sign 2011. 2012 one on Chiancate, one Carbonara Valley.
2014 a road casualty. 2015 one at Passo Ingarano.
1 in Bosco Quarto seen well (PGC) 2011
Sign, knawed pinecones, north coast
4 + in the Foresta Umbra, seen well, 2014
Burrows noted
One on Monte Nero 2014
Rooting activity widespread