# The Gargano

Italy's Secret Garden

A Greentours Tour Report

22<sup>nd</sup> April to 1<sup>st</sup> May 2013

Led by Paul Cardy

Daily Reports and Systematic Lists by Paul Cardy

#### Day 1 Monday 22<sup>nd</sup> April Arrival and transfer to Gargano

After convening at Bari Airport we were soon on our way north towards the Gargano peninsula. Initially the journey took us across the extensive agricultural Tavoliere plain, roadsides yellow with *Chrysanthemum coronarium*. Just north of Bari a group of four Ringnecked Parakeets flew across the road in exactly the same spot I'd seen them several times in the past. The journey was uneventful through mainly olive plantations, but soon the limestone massif of the Gargano came into view. A motorway service station provided an atypically unnatractive but convenient spot in which to eat lunch, Italian Sparrows in attendance.

Having left the motorway our route took us east along the north coast of the Gargano peninsula, the roadside verges colourful with flowers. We made a welcome and productive stop at our traditional *Paeonia peregrina* site, and although this species is not always in flower at this time, we were delighted to find several superb red cup-shaped blooms as well as several more in bud. Pink Butterfly Orchids were much in evidence, with a few Green-winged Orchids. The only *Ophrys fuciflora* of the tour were here. The purple flowered *Verbascum phoeniceum* was in attractive flower and legumes were well represented, for example by the red *Lathyrus cicera*. The attractive umbellifer *Tordylium apulum* was a feature, as was Large Mediterranean Spurge, and there were many *Ornithogalum divergens* in flower.

Italian Wall Lizards basked on rocks, and Wall Brown was the first butterfly seen. Swallowtails and a Scarce Swallowtail were on the wing. 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.

We continued east, through Rodi, and to our first hotel on the north coast. Having settled the group in I then set out to buy picnic supplies for the next few days.

#### Day 2 Tuesday 23<sup>rd</sup> April Peschici and Vieste areas

The weather was fine, although the clouds massed during the morning, and the day remained dry until late afternoon. First 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*.

The white *Cistus monspeliensis* bloomed on the slopes behind the beach, and, on the roadsides, a few *Cistus creticus* were already in flower. The many *Orchis papilionacea* here were starting to go over, but several of the striking *Ophrys apulica* remained in fine condition. After a little searching we found the hoped for *Ophrys cornuta*, which was duly photographed, a remarkable fifteen or so being found today. This is the only site we know of for this species in the Gargano and we did not see it again. Bushes shelter such species as *Prasium majus* and *Cyclamen repandum*. Among the many other plants here were *Coronilla emerus*, *Buglossoides purpurocaerulea*, *Tetragonolobus purpureus*, *Securigera securidaca*, and *Trifolium stellatum*. The lovely *Crepis rubra* was commonly in flower, with red flowered *Anthyllis vulneraria; Fumaria capreolata; Silene italica; Urospermum dalechampii; Dorycnium hirsutum; Allium subhirsutum* and *Arum italicum* adding to the great floral variety of our first main stop.

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

A nearby Napoleonic tower had the endemic *Campanula garganica* in good flower. Also here was White Henbane and I was pleased to find two Southern Comma larvae on the *Parietaria judaica*. Also in bloom was *Matthiola incana*.

Lunch was set out in an olive grove a little inland where there were a few Lady Orchids, but not the fine show that used to be at this site. *Nigella damascena* was in flower and Small Copper was on the wing.

A somewhat longer drive east took us to near Vieste, where we saw many Pyramidal Orchids, in fine flower. *Ophrys incubacea* was also here, Tassel Hyacinths were numerous, and there was a lot of Rosy Garlic. There were a number of *Orobanche loricata*, and *Malva cretica* and *Convolvulus pentapetaloides* were pleasing finds. Green-underside Blue and Brown Argus were seen. Bee-eaters called regularly, Red-rumped Swalows were a pleasing addition to the bird list, and a Hobby flew over. Among the many other flowers were *Onobrychis aequidentata*, and *Scorzonera hirsuta*. The next site had *Ophrys sicula* and more fine *Ophrys apulica*, and Richard saw a Jack Snipe here. Light rain curtailed a very productive full first day.

We arrived back at the hotel with time for a rest and an initial run through the plant list before enjoying dinner in the restaurant.

#### Day 3 Wednesday 24<sup>th</sup> April Passo Ingarano, Dolina Pozzatina and Spina Pulci

We drove west this morning, the skies cloudy but the day bright, as we headed to the Passo Ingarano, arriving after about an hour. We spent the whole morning exploring the hillsides here and found much of interest. Near the vehicle we started the plant list with *Erodium ciconium*, the beautiful *Pisum sativum*, and some amazingly robust Giant Fennels. Having

accessed a stony slope we started to see orchids, with widespread species such as *Ophrys bombyliflora* and many *Orchis italica* and *Orchis papilionacea*. A good number of Man Orchids were in good flower. Higher up were several of the southern Italian endemic *Ophrys parvimaculata* in fine flower, but the Adriatic endemic *Ophrys archipelagi* had gone over. Near both parents was a rather convincing hybrid between the two.

The yellowish mounds of *Euphorbia spinosa* were very attractive, 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 which is spreading on the lower slopes. The *Iris lutescens* were mostly over here but there were a few still in flower, of the purple form. There were some fine patches of *Cyclamen repandum* higher up the slope sheltered under the Downy Oaks. Among the other plants here were *Lathyrus cicera, Helianthemum salicifolium, Alyssoides sinuata, Parentucellia latifolia*, and *Scorzonera hirsuta*. Subalpine Warblers were active in the scrub, whilst a female Montagu's Harrier flew overhead, and Corn Buntings and Cirl Buntings called from prominent perches. A dead Roman Mole was found.

Land snails are a feature of these limestone slopes. *Pomaceus elegans* was attractive; *Rumina decolata* had a characteristic truncated shell; a member 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 no less than three of the potentially dangerous centipede *Scolopendra cingulatus*, and two small scorpions *Buthus occitanus*. A Cream-spot Tiger was much admired.

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 and I set out the picnic 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 already over.

Nearby was a large meadow coloured pink by the masses of *Orchis morio* and *Orchis papilionacea*. There were also a few obvious examples of hybrids between the two. Subalpine Warblers were much in evidence. Common Whitethroat and Corn Bunting were here, and in an oak copse I spotted a Golden Oriole to show Irene, rather distant, but a new bird for her. The peonies were again mostly over, but one still had petals, much paler than the deeply coloured *Paeonia peregrina* we had seen on the first day.

Next we headed up a minor road to the beautiful oak-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,* a few *Narcissus poeticus* still in flower, and *Doronicum orientale.* A highlight was several fine specimens of *Ophrys biscutella,* 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, Bellis sylvestris,* and *Muscari commutatum* were noted too. The foodplant of Southern Festoon, *Aristolochia longa,* was rather common, and we saw the butterfly too, a species that we would

see at many sites this year. Nuthatch and Common Treecreeper were seen, and Green Woodpeckers called.

In the evening we met for a run through of the fauna we had seen so far, before dinner.

#### Day 4 Thursday 25<sup>th</sup> April Lake Lesina and Carpino Area

Awaking to fine weather we again headed west, initially along the coast and the bar that runs along the northern shore of Lake Varano. Having negotiated the stange deserted resort town of Lido del Sole, our first stop was a sandy track. 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.

A basking European Pond Terrapin beside the channel was too distant to be appreciated properly. Green Frogs (Italian Hybrid Frogs) rasped continuously whilst Cetti's Warbler periodically gave its explosive song. Long-tailed Tits frequented the pines.

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 etrusca* and *Dorycnium hirsutum* were growing in the dunes. We again reached the beach and had a look at the typical flora. Also noted here were *Tragopogon crocifolius*, and *Erodium laciniatum*. Hoopoe was seen briefly.

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

Little Egret was seen and on the lake were many Coots. Several Wood Sandpipers fed on the exposed mud, whilst a Marsh Harrier hunted over the reeds. Penduline Tits were seen superbly well gathering nesting material from the reeds. Indeed four nests were located, and the photographers spent much time at two of these, the birds regularly returning with nesting material and adding to the nests in the tamarisks.

On the lake were a few Little and Great Crested Grebes, and Pochard and Ferruginous Duck were seen. Common Snipe was seen in flight. Water Rail called from the reeds and Crested Larks frequented the ploughed fields. Great Reed Warblers sang continuously and were seen in the reeds, and Zitting Cisticolas performed display flights. One field had much *Melilotus messanensis* in flower. A highlight was an impressively large Four-lined Snake in the shallow water at the lake's edge, watched for a reasonable time.

Lunch was eaten a little further west. Black-headed Gulls were much in evidence, and there were a few Flamingos on this part of the lake, and Common Terns. Bee-eaters had been calling constantly and Walter spotted them on and around some low bushes on the other side of the channel. There was a typical salt marsh flora here.

In the afternoon we headed inland, initially above Cagnano where we found the local endemic *Iris bicapitata* in good flower, in the purple form. We 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 many superb *Dactylorhiza romana* under the trees. Here too was a fine *Orchis provincialis*.

The next stop was to look for Dense-flowered Orchid at one of the few sites where it may already be in flower at this time, where if we find it at all it's usually only one plant. Searching today yielded a few leaves, with one just about in flower. *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.

The last stop of the day was on a fine rocky limestone hillside that supported many plants. Below us were Lake Varano and the calm blue sea. A few *Ophrys promontorii* were located, another new species for the trip, and there were several Burnt-tip Orchids. The natural rock garden held many fine flowers, with crucifers a feature, among them Burnt Candytuft, *Thlaspi praecox*, and *Alyssum minus*. *Anchusa cretica* and *Ajuga genevensis* provided some lovely blue splashes of colour, and there were many Man Orchids. *Minuartia verna* was in flower and there were extensive patches of *Parentucellia latifolia*.

#### Day 5 Friday 26<sup>th</sup> April Transfer to Monte St. Angelo via Foresta Umbra

It was time to say farewell to the friendly owners of the hotel at Rodi and head south, driving inland across the peninsula of the Gargano, to our next hotel, in Monte St.Angelo. Clear blue skies were again characteristic. Our first scheduled stop was to admire what for several years has been a fine show of Lady Orchids under an olive grove. Sadly the obsessive chemical spraying of roadsides this year had scuppered this population the whole ground flora yellow and withered. However at the same site, just below the road, was a fine substitute, where under another olive grove some forty superb spikes were very photogenic and impressive. *Calystegia silvatica* bloomed in a hedgerow.

Next we stopped in the northern part of the Foresta Umbra, a beautiful beech woodland, to look for various woodland orchids. We found a few of the rare (here) *Orchis provincialis* in flower, and very young spikes of *Epipactis*, and a few *Cephalanthera damasonium* coming into flower. 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. Cuckoo called and Blackcaps and other familiar woodland birds provided a chorus in this beautiful spot. Firecrest and Great Spotted Woodpecker were here too.

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.

The woodland bird song was remarkable with a host of common species all singing together. Various stops produced a good selection of ferns, and *Cardamine chelidonia*.

I was especially pleased to spot two fine Sword-leaved Helleborines in perfect bloom on the roadside, and these were duly admired. At another stop Holly Blue and Speckled Wood were on the wing in the sunshine. Strangely the *Scrophularia vernalis* I'd found the previous year was not located, but *Scrophularia peregrina* was here instead!

We ate lunch at one of the many picnic tables provided in the forest. There were several interesting plants here such as *Cardamine bulbifera*, Ramsons, and Woodruff. The attendant Nuthatch was rather shyer than is usual!

Once out of the forest a stop among open fields yielded a selection of orchids, and a pair of Woodchat Shrikes put in a brief appearance. Nearing Monte St.Angelo we made a stop at an orchid rich site, where we saw *Ophrys bertoloniiformis* for the first time. Also here were *Ophrys promontorii*, *Ophrys sicula*, and *Ophrys phryganae*. With many common species here too there were perhaps fifteen orchid species at this site. The white *Helianthemum apenninum* was in fine flower, as was the rather tall *Bellis sylvestris*. Tree Heath was a feature of the roadsides in the area.

Another site had many flowers, including some beautiful forms of *Iris lutescens*. Here rather large numbers of *Ophrys funerea* this year was the highlight. There were many other orchids here too, and briefly I saw a dark phase Western Whip Snake. Queen of Spain Fritillary was on the wing.

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.

We enjoyed a very good dinner in the hotel restaurant.

#### Day 6 Thursday 19<sup>th</sup> April Pulsano Road

A local day today, spent exploring the very productive Pulsano Road. The weather was rather changeable, and pretty cool at first, however with sunny spells, but unfortunately by lunch time the only persistent rain of the tour came, and the rest of the day was rather wet.

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. *Orchis lactea* was rather common at a couple of sites, but only one was found still in flower 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*. I was very pleased to find a lone *Ophrys sipontensis*, a very local endemic, at a new site. Richard found the hybrid *Orchis italica* x *Aceras anthropophorum*, particularly appreciated by Walter.

The lack of sunshine meant most butterflies were rather torpid, providing ample photographic opportunities. At the first site were a remarkable number of Chapman's Blues, whilst Little Blues, Baton Blue, and Brown Argus were here too. A pair of freshly emerged Swallowtails

looked especially fine. *Arabis verna* was in attractive flower in one shady spot and among other new plants were *Helianthemum canum, Scandix australis, Valantia muralis* and *Valeriana collina.* The woolly leaves of *Salvia argentea* were very attractive. Lifting various stones yielded another impressive *Scolopendra* centipede and a few more scorpions. Communal masses of larvae of the lackey moth *Malacosoma franconicum* were numerous in the area.

Today I was forced to set out the extensive picnic in the back of the van under the cover of the door, whilst the group had to eat inside the vehicle due to the heavy rain. 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*, *Capparis spinosa* and *Cymbalaria muralis*. There was a selection of fumitories.

Most opted for an early return to the hotel rather than the intended gorge walk, due to the persistent rain. This is one of my favourite sites of the tour, and I intended that we would return here in better weather, as it is usually especially productive for butterflies. Nevertheless Richard was keen to set out anyway despite the weather, so after driving the others to the hotel, we returned and embarked on what was a rather wet but very productive and enjoyable walk. By the end of it the heavy cloud had even cleared somewhat and there was a little sunshine.

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. *Thesium humile*, *Silene subconica*, and *Sideritis romana* were among the many other plants. A highlight was a few *Serapias orientalis*, an addition to the orchid list.

Perched in the dull weather were several Eastern Bath Whites, with Eastern Dappled White here too. The burnet *Zygaena loti restricta* had evidently just emerged.

#### Day 7 Sunday 28<sup>th</sup> 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, surprising on a Sunday with perfect weather. 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. At the first scheduled stop there was much *Linum austriacum* and *Helianthemum apeninnum,* and Nightingale, Corn Buntings and Stonechats provided the soundtrack. I was pleased to find a fine stand of *Vicia melanops,* a species seemingly less common in the Gargano than in the past.

At a site for *Paeonia mascula* a few were in reasonable bloom, and among the arable weeds were *Eranthis hyemalis* (leaves), *Thlaspi perfoliatum* and *Lathyrus ochrus*. We had fine views of a Green Lizard. A roadside rock garden held many *Narcissus poeticus*, abundant *Anemone apennina*,

*Ophrys sphegodes,* and *Saxifraga carpetana.* Here were a couple of very early plants of Orange Lily just emerging and our first Elder-flowered Orchid. Golden Oriole sang in the distance.

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 failed to locate any Bird's-nest Orchids (only a few old spikes), sometimes in good flower at this time, but a bonus was some fine morels. The woodland bird song was a constant soundtrack. White-backed Woodpecker was seen all too briefly.

At another stop the woodland floor was covered in privet, among which grew *Polygonatum multiflorum*, *Pulmonaria vallarsae*, *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 gageas we sometimes see in bloom here, *Gagea chrysantha*, were all in fruit this year.

A field that is usually full of *Corydalis cava* had many 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. A great find here was a lone *Bellevalia romana*, not seen by us on this tour since 2005! Southern Festoon was flying and *Senecio tenorei* was in flower.

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 nearly thirty 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.

Another stop was made for a simply stunning show of orchids, before we continued home to our lovely hotel and another very welcome dinner. Scops Owl was heard near the hotel.

#### Day 8 Monday 29<sup>th</sup> April Ruggiano Road and Margherita Saltpans

Again under clear blue skies we set out on a varied day. At the first stop there was a selection of the commoner orchids, and a few *Ophrys biscutella*. Corn Bunting and Stonechat were much in evidence, and Walter found a green Western Whip Snake. A friendly dog was pleased to see us again. At the next slope there were many fine irises. Subalpine Warblers called from the bushes and we again heard Golden Oriole. The sun brought out many butterflies, particularly in one sheltered gully. Swallowtail, Scarce Swallowtail, Eastern Dappled White, Brimstone, Small Copper, Little Blue, Baton Blue, and Adonis Blue were all here. There were also several ascelaphids on the wing. *Linaria pelisseriana* was new for us and a pleasing find was the thrift *Armeria canescens*, just coming into flower, a species not seen for many years on this tour. One plant of *Salvia argentea* was in flower.

Close by was the site for the very local endemic *Ophrys sipontensis*, where some were in fine flower this year, although most showed some degree of hybridisation. The proximity of *Ophrys* 

*bertolonii* and *Ophrys bertoloniiformis* allowed the two to be compared. *Potentilla hirta* was in leaf. Irene was especially pleased when a Cuckoo flew over.

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

I set out the picnic in a beautiful olive grove near the locked gates of a interesting large ruined house, which showed an interesting range of architectural styles, with a selection of follies and outbuildings. One of my targets here was again Italian Marbled White, but it failed to appear here this year. Mallow Skippers and Four-spotted Moth were seen however, and *Medicago orbicularis* was in impressive fruit. *Echium parviflorum* was added to the list. There were a few Whinchats here, a species we saw at several sites this year.

The next stop was beside the busy motorway, a necessity to see the impressive *Serapias apulica*, reliable at this site, with several still in good flower. The vegetation here was as always very interesting but the difficult location meant we had to move on quickly after the *Serapias* had been admired.

Back on the road we drove south to the extensive series of working saltpans at Margherita. The many Flamingoes were mostly rather distant this year, grouped on the far side of the pans, although we saw a few closer birds, and large numbers in flight. Three Spoonbills were seen well. Among the waders were Black-winged Stilts, Little Stints, Ruff, Kentish Plovers, a lone Little Ringed Plover, Wood Sandpiper, Dunlin, and Curlew Sandpiper. The grey-headed form of Yellow Wagtail was seen well.

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 and a Little Gull was a bonus. There were a few Little Terns. Shelduck were much in evidence, and there were many Avocets. The flora included typical saltmarsh species such as *Arthrocnemum perenne, Arthrocnemum fruticosum, Suaeda vera* and *Camphorosma monspeliaca*. Two Moorish Geckos basking on a disused building were well photographed.

Several Curlew Sandpipers were in breeding plumage, with one group in a channel near the road being approached closely. The Dunlin were also in breeding plumage.

We headed back to Monte St.Angelo via an exciting series of hairpin bends.

#### Day 9 Tuesday 22<sup>nd</sup> April Monte Nero

Our last day in the field saw us visiting a mixed selection of sites. Again the day started fine in Monte St.Angelo. 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. Marsh Tit was seen, 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*. An unfortunate injured Western Whip Snake was on the road, obviously hit by the vehicle that had preceded us.

Our last picnic was eaten in the Cento Pozzi dolina where the ponds supported the usual Italian Hybrid Frogs and Italian Crested Newts, and European Pond Terrapins. 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. A Dice Snake frequented one of the ponds, Subalpine Warbler and Nightingale sang throughout our visit, and as we arrived a Honey Buzzard flew over. Richard found Glanville and Knapweed Fritillaries flying together.

The afternoon was devoted to a return visit to walk the Pulsano Gorge, in fine sunshine this time!

The walk along the gorge was indeed rather hot this afternoon but the path is not difficult, and descends very gradually to the woods at the bottom. Of course we saw all the plants seen on our previous visit and we added several others. *Orobanche gracilis* parasitised legumes. There were many butterflies on the wing, and a fine Italian Marbled White nectared. Clouded Yellow still caused much interest and Cleopatra was on the wing. There was a good selection of blues.

Moorish Geckos frequented the limestone rocks, and Walter did battle with another black Western Whip Snake that really didn't want to be shown to the group!

#### Day 10 Wednesday 1<sup>st</sup> May 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 said our fond farewells. I then drove Irene to her hotel near the airport, as her flight was not until the following day.

### Gargano Systematic Lists 2013

Compiled by Paul Cardy

Itinerary

- Day 1. 22<sup>nd</sup> April. Arrival. Transfer to Rodi Garganico. *Paeonia peregrina* site.
- Day 2. 23<sup>rd</sup> April. Beach near Peschici, sites west of Vieste.
- Day 3. 24<sup>th</sup> April. Passo Ingarano, Dolina Pozzatina, Bosco di Spina Pulci.
- Day 4. 25<sup>th</sup> April. Varano Island, Lake Lesina, sites above Carpino and Cagnano.
- Day 5. 26<sup>th</sup> April. Vico, Foresta Umbra, Carbonara Valley, Monte St. Angelo.
- Day 6. 27<sup>th</sup> April. Pulsano road and gorge.
- Day 7. 28<sup>th</sup> April. Bosco Quarto, Chiancate.
- Day 8. 29<sup>th</sup> April. Ruggiano road, Villa Rosa, Margherita saltpans.
- Day 9. 30<sup>th</sup> April. Monte Nero, Borgo Celano, Cento Pozzi, Pulsano Gorge.
- Day 10. 1<sup>st</sup> May. 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. Species seen for the first time this year are annotated 2013. 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. 'Bestimmungsschlussel zur Flora des Gargano' by Wolfgang Licht, 2008, is an invaluable flora for those who speak German!

### Pteridophyta

Adiantum capillus-veneris Asplenium adiantum-nigrum Asplenium trichomanes

Blechnum spicant Ceterach officinarum Cystopteris fragilis Dryopteris filix-mas

Phyllitis scolopendrium

Polypodium cambricum Polypodium vulgare Polystichum setiferum Pteridium aquilinum Selaginella denticulata

### **Gymnospermae** Pinaceae

Cedrus atlantica Larix decidua Pinus halepensis Pinus nigra Pinus pinea

Pinus sylvestris Pseudotsuga menziesii

## Cupressaceae

Cupressus macrocarpa Cupressus sempervirens Juniperus oxycedrus Juniperus phoenicea

Taxacaceae Taxus baccata Maidenhair Fern Black Spleenwort Maidenhair Spleenwort

Hard Fern Rustyback Fern Brittle Bladder Fern Male Fern

Harts-tongue Fern

Southern Polypody Common Polypody Soft Shield Fern Bracken Mediterranean Selaginella

Atlas Cedar Larch Aleppo Pine Black Pine Stone Pine

Scots Pine Douglas Fir

Monterey Cypress Italian Cypress Prickly Juniper Phoenician Juniper

Yew

Bosco Quarto Agriturismo 2006 Foresta Umbra and Bosco di Spina Pulci Widespread, forming woods in the north Locally planted, e.g. Foresta Umbra Noted on journeys to and from Bari Airport Foresta Umbra Agriturismo in Bosco Quarto 2006

Above Carpino etc. Scattered North coast and Pulsano Gorge Noted along the north coast 2004!

Foresta Umbra

Foresta Umbra and Bosco Quarto Sheltered walls etc., locally common, e.g. Foresta Umbra Foresta Umbra Widespread and locally common A few records, e.g. Monte Nero Noted in the Foresta Umbra and Bosco Ouarto Noted in the Foresta Umbra, where locally common, and Bosco Quarto Foresta Umbra etc. Foresta Umbra and Bosco Quarto Foresta Umbra Widespread Locally common on shaded rocks and banks

Peschici area 2007

## Angiospermae Dicotyledones

Corylaceae Carpinus betulus

Carpinus orientalis

Ostrya carpinifolia

Corylus avellana

## Fagaceae

Castanea sativa Fagus sylvatica

Quercus cerris Quercus ilex Quercus pubescens Quercus robur

Salicaceae Salix babylonica Populus nigra Populus tremula

Juglandaceae

Betulaceae Alnus cordata Betula pendula

#### Ulmaceae Ulmus glabra

Ulmus glabra Ulmus minor

Moraceae Ficus carica

Loranthaceae Loranthus europaeus

Santalaceae

Osyris alba Thesium humile

Urticaceae Parietaria judaica

#### Hornbeam Widespread in the hills - sometimes codominant. Smooth grey bark. Oriental Hornbeam Widespread - tended to be commoner on lower slopes of the hills. Similar to the previous species but smaller leaves. Hop Hornbeam Locally numerous. Trunk brown and fissured. e.g. Spina Pulci Hazel Pulsano road Sweet Chestnut Local, e.g. Chiancate Common Beech Locally dominant, as in parts of Foresta Umbra Turkey Oak Widespread in the forests Holm Oak Widespread Downy Oak Scattered throughout, forest on Monte Nero Pedunculate Oak Noted at Dolina Pozzatino in previous years Weeping Willow Pulsano Road, Monte St Angelo. Black Poplar North coast A few in Foresta Umbra Aspen Walnut Near Bosco Quarto and in the north Oriental Alder Foresta Umbra 2008 Silver Birch Foresta Umbra Wych Elm Foresta Umbra Small-leaved Elm Scattered records, e.g. Passo Ingarano Fig Widespread

Parasitic on one oak near Ruggiano junction.

Near Vico Pulsano gorge and *Serapias apulica* site

Pellitory of the Wall

a bastard toadflax

a mistletoe

Osyris

Scattered

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Parietaria officinalis Urtica dioica Urtica membranacea Urtica pilulifera Urtica urens

## Aristolochiaceae

Aristolochia clusii

Aristolochia rotunda

## Polygonaceae

Polygonum aviculare Rumex acetosa Rumex acetosella Rumex conglomeratus Rumex crispus Rumex obtusifolius Rumex palustris Rumex pulcher

## Chenopodiaceae

Arthrocnemum macrostachya Atriplex halimus Atriplex prostrata Beta vulgaris Camphorosma monspeliaca Chenopodium album Chenopodium murale Chenopodium vulvaria Halimione portulacoides Salicornia europaea Salsola kali Suaeda vera Suaeda splendens

## Aizoaceae

Carpobrotus edulis

## Caryophyllaceae

Arenaria leptoclados Arenaria serpyllifolia Cerastium fontanum Cerastium glomeratum Cerastium semidecandrum Dianthus sylvestris Herniaria glabra Herniaria hirsuta Minuartia hybrida Minuartia verna Moehringia trinervia Petrohagia velutina Polycarpon diphyllum Polycarpon tetraphyllum Common Pellitory Stinging Nettle Membraneous Nettle Roman Nettle Annual Nettle

a birthwort

a birthwort

Knotgrass Common Sorrel Sheep's Sorrel Clustered Dock Curled Dock Broad-leaved Dock Marsh Dock Fiddle Dock

Glasswort Shrubby Orache Spear-leaved Orache Sea Beet

Fat Hen Nettle-leaved Goosefoot Stinking Goosefoot Sea Purslane Glasswort Prickly Saltwort Shrubby Seablite a seablite

Hottentot Fig

Lesser Thyme-leaved Sandwort Thyme-leaved Sandwort Mouse-ear Chickweed Sticky Mouse-ear Little Mouse-ear Wood Pink Smooth Rupturewort Hairy Rupturewort Hairy Rupturewort Fine-leaved Sandwort Spring Sandwort Three-veined Sandwort Kohlrauschia Two-leaved Allseed Four-leaved Allseed Pulsano Sanctuary Common Near the hotel in the north Northern Forest Umbra roadsides North coast

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

South coast Scattered records Near Dolina Pozzatina Margherita Saltpans Scattered records Scattered records Manfredonia Wetlands 2005 Foresta Umbra 2006

Margherita Saltpans and Lake Lesina Lake Lesina in previous years Lake Lesina and near Peschici Near Peschici Margherita Saltpans Near Peschici 2012 Santa Maria di Pulsano Sanctuary Near Peschici 2011 Salt marshes at Margherita and Lesina Margherita Saltpans Varano Island 2012 Noted at Margherita Saltpans Margherita Saltpans

Saltmarshes at Margherita Saltpans, and north coast

Scattered records Pulsano Road, Peschici area etc. Scattered records, e.g. Passo Ingarano Widespread North coast and Pulsano road 2008 A few in leaf at Ruggiano viewpoint Chiancate etc. Ruggiano road 2012 Scattered records, e.g. Spina Pulci Widespread in the hills, locally common. Bosco Quarto 2006 Scattered records, e.g. Ruggiano road Noted in the south 2011 North coast etc. Sagina apetala Sagina procumbens Scleranthus annuus Scleranthus perennis Silene alba Silene colorata Silene conica Silene gallica Silene gallica Silene subconica Silene vulgaris Spergularia marina Spergularia rubra Stellaria holostea

Stellaria media Stellaria neglecta Velezia rigida

#### Ranunculaceae

Adonis aestivalis Adonis annua Anemone apennina

Anemone hortensis Anemone pavonina Aquilegia vulgaris Clematis flammula Clematis vitalba Eranthis hyemalis Nigella damascena Ranunculus acris

Ranunculus arvensis Ranunculus bulbosus Ranunculus ficaria Ranunculus garganicus Ranunculus lanuginosus Ranunculus millefoliatus

Ranunculus muricatus Ranunculus paludosus Ranunculus parviflorus Ranunculus sardous Ranunculus scleratus Ranunculus trichophllylus

Paeoniaceae

Paeonia mascula

Paeonia peregrina

Annual Pearlwort Procumbent Pearlwort Annual Knawel Perennial Knawel White Campion a catchfly Sand Catchfly Small-flowered Catchfly Italian Catchfly a catchfly Bladder Campion Lesser Sea Spurrey Sand-spurrey Greater Stitchwort

Common Chickweed Greater Chickweed Velezia

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

an anemone Peacock Anemone Common Columbine Fragrant Clematis Traveller's Joy Winter Aconite Love-in-a-mist Meadow Buttercup

Corn Buttercup Bulbous Buttercup Lesser Celandine a buttercup Woolly Buttercup a buttercup

a buttercup Jersey Buttercup Small-flowered Buttercup Hairy Buttercup Celery-leaved Buttercup Thread-leaved Water Dropwort Pulsano Road Scattered records Monte Nero 2008 Recorded 2011 Scattered records Very common on coastal dunes North Coast dunes Passo Ingarano 2008 and 2013 Scattered, e.g. Pulsano Gorge Pulsano road and gorge Scattered, e.g. Varano Island Manfredonia wetlands 2008 Peschici etc. Scattered in wooded areas, e.g. Bosco Quarto Widespread. Stamens 3 to 8. Recorded. Stamens 10. Vieste area 2003

Rignano 2005 Carbonara Valley 2006 and 2013 Locally co-dominant under trees in the hills, including much of the white form var.albiflora Scattered records. Tepals 12 to 19. Widespread and common. Tepals 7 to 12. Leaves seen in the Bosco Ouarto Scattered in the north, in leaf Scattered – mostly in the north. In leaf. In seed in Carbonara Valley Peschici olive grove etc. Pilgrim's Road, Monte St Angelo and near Vieste Carbonara 'tulip fields' 2012 Widespread Bosco di Spina Pulci, Monte Nero etc. Rather widespread. Sepals pubescent. Foresta Umbra Widespread and common. Sepals glabrous. Foresta Umbra 2013 In leaf Spina Pulci 2013 Widespread Cento Pozzi Manfredonia wetlands 2008

In flower at one site in Carbonara Valley, several near Dolina Pozzatina in fruit, one flower, in bud near Chiancate Several in fine flower at one site in the northern coastal area, others in bud

Capparaceae Capparis spinosa

a Caper

a Peony

a Peony

Pulsano sanctuary

### Papaveraceae

Chelidonium majus Papaver apulum

Papaver dubium Papaver hybridum Papaver rhoeas Papaver somniferum

## Fumariaceae

Corydalis cava Fumaria agraria Fumaria bastardii Fumaria capreolata Fumaria densiflora Fumaria officinalis Fumaria parviflora Fumaria vaillantii

## Cruciferae

Aethionema saxatile Alliaria petiolata Alyssoides sinuata

Alyssum leucadeum

Alyssum minus Arabidopsis thaliana Arabis alpina Arabis collina

Arabis hirsuta Arabis sagittata Arabis turrita Arabis verna

Aubrieta columnae

Aurinia saxatile

Barbarea bracteosa Barbarea vulgaris Biscutella didyma Biscutellas lyrata Brassica nigra Brassica rapa Bunias erucago

Cakile maritima

Calepina irregularis Capsella bursa-pastoris Capsella rubella Cardamine chelidonia Cardamine graeca Cardamine hirsuta Cardaria draba Greater Celandine a poppy

Long-headed Poppy Rough Poppy Common Poppy Opium Poppy

Bulbous Corydalis a fumitory Tall Ramping-Fumitory White Ramping-Fumitory a fumitory Common Fumitory Small Fumitory a fumitory

Burnt Candytuft Garlic Mustard Alyssoides

Thale Cress Alpine Rockcress a rockcress

Hairy Rockcress a rockcress Towercress Spring Rockcress

#### Golden Alyssum

a Wintercress Common Wintercress Biscutella a biscutella Black Mustard Wild Turnip Bunias

#### Sea Rocket

White Ball Mustard Shepherd's-purse a shepherd's-purse a bittercress a bittercress Hairy Bittercress Hoary Cress Foresta Umbra Scattered records in north, mainly roadsides Recorded in the north Passo Ingarano 2008 Widespread and locally numerous Near Sannicandro 2007

Locally several in flower this year Dolina Pozzatina 2007 Scattered records Widespread and common Scattered records, e.g. Carbonara valley Widespread and locally common Pulsano Sanctuary, Passo Ingarano Near Peschici and Bosco Quarto

Hillside above Carpino, Pulsano road etc. Scattered in woodlands, e.g. Foresta Umbra Scattered, e.g. Passo Ingarano and Pulsano sanctuary Possibly this species seen along Pulsano road 2004 Locally very common Scattered records Monte St.Angelo, ssp.caucasica Scattered records in the south, pinkish flowers. Syn. Arabis rosea. Also above Carpino. Widespread Recorded 2013 Dolina Pozzatina Bosco Quarto, Pulsano road, Passo Ingarano Locally numerous on walls and rocks, Monte St.Angelo, ssp.italica Widespread and common, e.g. above Carpino Scattered records Widespread Widespread Probably this species along Pulsano road Scattered Recorded Rather widespread and locally common, e.g. near Peschici Noted on the shore in the north, and at Margherita Bosco di Spina Pulci Widespread and common Recorded, e.g. Pulsano Gorge A few in Foresta Umbra Widespread in forests. White flowers. Bosco Quarto, Foresta Umbra etc. Widespread, particularly in the north

Clypeola jonthlaspi Coronopus squamatus Dentaria (Cardamine) bulbifera Diplotaxis erucoides Diplotaxis tenuifolia Draba muralis Erophila verna Eruca sativa Erysimum sp.

Hirschfeldia incana Hornungia petraea Isatis tinctoria

Lepidium latifolium

Lobularia maritima Matthiola incana Matthiola sinuata

Neslia paniculata Raphanus raphinastrum Rapistrum rugosum Sinapis alba Sinapis arvensis Sisymbrium irio Sisymbrium loeselii Sisymbrium officinale Sisymbrium orientale Thlaspi arvense Thlaspi perfoliatum Thlaspi praecox

### Resedaceae

Reseda alba Reseda lutea Reseda phyteuma

## Crassulaceae

Sedum acre Sedum album Sedum caespitosum Sedum hispanicum Sedum ochroleucon Sedum sediforme Sedum stellatum Umbilicus rupestris

## Saxifragaceae

Saxifraga bulbifera Saxifraga graeca (carpetana) Saxifraga tridactylites

Platanaceae Platanus X hybrida Clypeola Swinecress Coralroot Bittercress White Wall Rocket Perennial Wall Rocket Wall Whitlow Grass Whitlow Grass Eruca Treacle Mustard

Hoary Mustard Hutchinsia Woad

Dittander

Sweet Alison Hoary Stock Sea Stock

Ball Mustard Wild Radish Bastard Cabbage White Mustard Charlock London Rocket False London Rocket Hedge Mustard Eastern Rocket Field Pennycress Perfoliate Pennycress a pennycress

White Mignonette Wild Mignonette Corn Mignonette

Biting Stonecrop White Stonecrop a stonecrop a stonecrop a stonecrop Starry Stonecrop Navelwort

a saxifrage a saxifrage Rue-leaved Saxifrage

Recorded in fruit Beach near Peschici 2008 and 2013 Scattered in woods, e.g Foresta Umbra Near Peschici 2007 Margherita area 2012 Scattered Scattered records, a few still in flower Widespread and locally abundant Yellow flowers and fine grey leaves, Pulsano road and transfer day. Erysimum crassistylum? Scattered records Very local, Monte Nero Widespread and often common on roadsides Very locally in flower on roadsides above Cagnano 2013. Scattered in the north Tower near Peschici Only this species at tower near Peschici 2012 and mostly in fruit 1 in arable field below Chiancate Scattered North, 2013 Widespread Widespread Scattered records in the south Pulsano Sanctuary and Manfredonia Scattered Carbonara Valley 2012 Carbonara Valley, arable weed, 2012 Arable weed near Bosco Quarto, 2012 Near Carpino, Bosco Quarto etc.

Widespread, mainly north North coast etc. Pulsano road and south of Foresta Umbra

Scattered in leaf, e.g. Pulsano Gorge Monte Nero in leaf Widespread and locally common Pulsano Sanctuary Pulsano Road etc., in leaf Noted in leaf, Pulsano Gorge Scattered records, in leaf A few records

Scattered, has bulbils in leaf axils Bosco Quarto and Monte Nero Noted in a variety of localities, e.g. Pulsano Gorge

London Plane

Noted en route from Bari to Rodi

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## Hydrangeaceae

Philadelphus coronarius

### Pittosporaceae

Pittosporum tobira

## Rosaceae

Agrimonia eupatoria Aphanes inexpectata

Aremonia agriminoides Cotoneaster nebrodensis Crataegus monogyna Cydonia oblonga Eriobotrya japonica Filipendula vulgaris Fragaria moschata Fragaria vesca Fragaria viridis Geum urbanum Malus sylvestris

Potentilla hirta Potentilla micrantha

Prunus avium Prunus dulcis Prunus mahaleb Prunus persica Prunus spinosa Prunus webbii Pyrus amygdaliformis Pyrus communis Rosa canina Rosa spp.

Rubus canescens Rubus ulmifolius Rubus spp. Sanguisorba minor Sorbus aucuparia Sorbus torminalis

## Fabaceae

Acacia cyanophylla Amorpha fruticosa Anagyris foetida Anthyllis barba-jovis Anthyllis tetraphylla Anthyllis vulneraria

Astragalus glycophyllus Astragalus hamosus Agrimony a Parsley Piert

Bastard Agrimony a cotoneaster Hawthorn Quince Loquat Dropwort Hautbois Strawberry Wild Strawberry a strawberry Herb Bennet Crab Apple

a cinquefoil Pink Barren Strawberry

Wild Cherry Almond St.Lucies' Cherry Peach Blackthorn

Almond-leaved Pear Cultivated Pear Dog Rose rose spp.

a bramble a bramble bramble spp. Salad Burnet Rowan Wild Service Tree

Blue-leaved Wattle

Bean Trefoil Jupiter's Beard Bladder Vetch Kidney Vetch

Wild Liquorice a milk-vetch

Naturalised at the Dolina Pozzatina

Beach near Peschici

Noted in leaf 2012 Noted at several sites in short woodland turf, locally numerous as in Spina Pulci Widespread but local in woods Possibly this species near Peschici 2008 Widespread A few in flower Recorded In leaf 2012 Scattered in the hills Local in leaf Recorded 2008 In leaf Pulsano Road, Monte St Angelo, near Vico, and above Carpino Scattered in leaf, in flower at Cento Pozzi Scattered, Spina Pulci, Foresta Umbra, and Bosco Quarto, not seen 2012! 2013 only Monte Nero. Scattered Commonly cultivated Pulsano Gorge Cultivated Scattered Recorded 2011 Widespread Scattered records Villa Rosa lunch site etc. Other species not identified, in leaf and fruit Widespread. Small trefoil leaves. Widespread. Variable leaves. Other species not identified Scattered records Scattered records Foresta Umbra and Monte Nero

Planted in northern lowlands Manfredonia wetlands 2008 Villa Rosa, not in flower Bordering the beach near Peschici Scattered in northern lowlands Subspecies *maura* and *praepropera*, both pink flowered, widespread and common In leaf in Pulsano Gorge 2011 Local, mostly in seed, e.g. Dolina Pozzatina

#### Astragalus monspessulanus

Astragalus montanus Astragalus sesameus Ceratonia siliqua Cercis siliquastrum Chamaecytisus spinescens Colutea arborescens Coronilla cretica Coronilla emerus Coronilla scorpioides Coronilla valentina Cytisus decumbens

Cytisus scoparius Cytisus villosus Dorycnium hirsutum Genista sylvestris Genista tinctoria

Hedysarum coronarium

Hippocrepis ciliata Hippocrepis glauca *Hippocrepis multisiliquosa* Hippocrepis unisiliquosa *Hymenocarpus circinnatus* Lathyrus aphaca Lathyrus cicera Lathyrus clymenum Lathyrus ochrus Lathyrus setifolius Lathyrus sphaericus Lathyrus venetus Lotus corniculatus Lotus cytisoides Lotus edulis *Lotus halophilus* 

Lotus ornithopodioides Lupinus albus Lupinus varius Medicago arabica Medicago disciformis Medicago littoralis Medicago lupulina Medicago marina

Medicago minima Medicago murex Medicago orbicularis Medicago polymorpha Medicago sativa Medicago truncatula Melilotus indicus Melilotus infestus Melilotus italicus Melilotus messanensis Melilotus segetalis Melilotus sulcata

#### False Vetch

a milk-vetch a milk-vetch Carob Tree Judas Tree a hairy broom Bladder Senna a scorpion vetch Scorpion Senna Annual Scorpion Vetch a scorpion vetch a broom

Broom a broom Dorycnium a greenweed Dyer's Greenweed

Italian Sainfoin

a horseshoe vetch a horseshoe vetch a horseshoe vetch a horseshoe vetch Disk Trefoil Yellow Vetchling a vetchling a vetchling a vetchling a vetchling a vetchling a vetchling Birdsfoot Trefoil a bird's-foot trefoil Edible Lotus a bird's-foot trefoil

White Lupin a lupin Spotted Medick a medick a medick Black Medick Sea Medick

Small Medick a medick Large Disk Medick Toothed Medick Lucerne a medick Small Melilot a melilot a melilot a melilot a melilot a melilot In flower at two sites along Pulsano road, and west of Vieste (2012) Pulsano road, this species? Synonomy? A few records Olive grove near Peschici Scattered in flower Several in Pulsano gorge Near Vieste 2008 Scattered records Widespread Widespread In leaf, Pulsano Gorge Locally very common around Monte St Angelo, in fine flower. Entire leaves. Foresta Umbra 2012 Near Dolina Pozzatina Common in dunes and sandy areas in north Pulsano gorge Monte St Angelo and Bosco Quarto and above Carpino Scattered records, but not seen in recent vears! Recorded Widespread and common Recorded Widespread and common Passo Ingarano and near Peschici 2011 Scattered records Widespread and locally common Above Cagnano Local, e.g. near Dolina Pozzatina Scattered records Scattered records Foresta Umbra and Bosco Quarto, in leaf Common and widespread North coast dunes Widespread – especially along coasts Very common locally in the north of the peninsula but seemed absent in the south Widespread and common Fodder crop and seeded therefrom Near Sannicandro Widespread Near Sannicandro etc. Noted by the coast near Peschici Widespread Along the shoreline near Peschici, and Varano island Pulsano Road and Gorge Recorded in the past Villa Rosa etc. Widespread Between Monte St.Angelo and Bari Airport Near Peschici 2011 Scattered records Near Peschici Recorded 2007 Dominant in one field at Lake Lesina Margherita saltpans Near Peschici

Onobrychis aequidentata Onobrychis alba Onobrychis caput-galli Onobrychis viciifolia Ononis diffusa **Ononis** reclinata Ononis variegata Ononis viscosa Ornithopus compressus Pisum sativum Psoralea bituminosa Robinia pseudacacia Scorpiurus muricatus Scorpiurus vermiculatus Securigera securidaca Spartium junceum Tetragonolobus purpureus Trifolium arvense *Trifolium campestre* Trifolium cherleri Trifolium fragiferum Trifolium medium Trifolium pratense Trifolium repens Trifolium resupinatum Trifolium scabrum Trifolium stellatum Trifolium subterraneum Trifolium tomentosum Trigonella monspeliaca *Trigonella* sp.

Vicia atropupurea (benghalensis) Vicia barbitziae

Vicia bithynica Vicia cracca Vicia faba Vicia grandiflora

Vicia hirsuta Vicia hybrida Vicia lathyroides Vicia lutea

Vicia melanops Vicia onobrychioides Vicia peregrina Vicia pubescens Vicia sativa

### Oxalidaceae

Oxalis articulata Oxalis corniculata Oxalis pes-caprae

### Geraniaceae

Erodium acaule Erodium botrys

a sainfoin a sainfoin Cockscomb Sainfoin Sainfoin a restharrow Small Restharrow a restharrow a restharrow Compressed Birdsfoot Wild Pea Pitch Trefoil False Acacia Scorpiurus a scorpiurus a scorpion vetch Spanish Broom Asparagus Pea Hare's-foot Clover Hop Trefoil a clover Strawberry Clover Zigzag Clover Red Clover White Clover Reversed Clover Rough Clover Star Clover Subterranean Clover Woolly Clover Star-fruited Fenugreek fenugreek sp.

a vetch a vetch

Bithynian Vetch Tufted Vetch Broad Bean a vetch

Hairy Vetchling Hairy Yellow Vetchling Spring Vetch Yellow Vetch

a vetch False Sainfoin a vetch Common Vetch

Pink Oxalis Procumbent Yellow Sorrel Bermuda Buttercup

a stork's-bill a stork's-bill Scattered records, e.g. near Vieste Common around Monte St Angelo. Margherita Saltpans Margherita Saltpans Pulsano and near Vieste Near Rignano 2008 Locally common on the north coast Recorded in the north, 2007 Recorded Widespread and locally common Widespread, little in flower this year Locally planted Widespread Scattered records Widespread and common Widespread and locally common Peschici area Local 2008 Near Peschici etc. Scattered records In flower near Peschici 2011 Pulsano road Scattered Widespread Near Peschici Scattered records Widespread and common Spina Pulci, near Carpino, Monte Nero, etc. Pulsano sanctuary etc. Near Vieste 2008 Cliffs south of Ruggiano. Yellow flowers. 2008. Spina Pulci 2012. Passo Ingarano Noted in the Foresta Umbra, yellow standard, blue wings, 2011 Widespread, e.g. Passo Ingarano Local on roadsides Occasionally naturalised Scattered woodland records, e.g. Spina Pulci Peschici, Spina Pulci, etc. Widespread and reasonably common A few records Spina Pulci and near Dolina Pozzatina 2008 Very local in the Carbonara Valley Monte Nero and Chiancate Pulsano Road Olive grove near Peschici 2008 Widespread and common

Pulsano sanctuary Recorded 2012 Locally dominant under olives in the north

Spina Pulci Pulsano road 2008

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Erodium ciconium Erodium cicutarium Erodium laciniatum Erodium malacoides Erodium maritimum Geranium columbinum Geranium dissectum Geranium lucidum Geranium molle Geranium purpureum Geranium purpureum Geranium pusillum Geranium robertianum Geranium robertianum Geranium tuberosum

## Linaceae

Linum austriacum

Linum bienne Linum tenuifolium Linum trigynum

## Euphorbiaceae

Euphorbia amvgdaloides Euphorbia barrelieri Euphorbia ceratocarpa Euphorbia characias Euphorbia exigua Euphorbia falcata Euphorbia helioscopia Euphorbia myrsinites Euphorbia paralias Euphorbia peplus Euphorbia pinea Euphorbia rigida Euphorbia segetalis Euphorbia spinosa Mercurialis annua Mercurialis perennis

### Rutaceae

Citrus aurantium Citrus limon Ruta chalepensis Ruta graveolens

Meliaceae Melia azederach

## Polygalaceae

Polygala monspeliaca Polygala nicaeensis Polygala vulgaris

Hippocastanaceae

Aesculus hippocastanum

a stork's-bill Common Stork's-bill a stork's-bill Mallow-leaved Stork's-bill a stork's bill Long-stalked Cranesbill Cut-leaved Cranesbill Shining Cranesbill Dovesfoot Cranesbill Little Robin Small-flowered Cranesbill Herb Robert Round-leaved Cranesbill Tuberous Crane's-bill

a flax

Pale Flax a flax a flax

Wood Spurge a spurge a spurge Large Mediterranean Spurge Dwarf Spurge a spurge Sun Spurge Broad-leaved Glaucous Spurge Sea Spurge Petty Spurge a spurge a spurge a spurge a spurge Annual Mercury Dog's Mercury

Seville Orange Lemon Fringed Rue a rue

Persian Lilac

a milkwort Nice Milkwort Common Milkwort

Horse Chestnut

Passo Ingarano Widespread and common Varano Island dunes Widespread Near Peschici 2005 Near Peschici Day 2 Bosco di Spina Pulci, Bosco Quarto etc. Widespread Scattered records Scattered records Widespread Scattered records Near Chiancate

Carbonara valley. ssp.*collinum*. Large blue flowers. Scattered records One in flower in Pulsano Gorge 2008 Near Manfredonia 2007

Locally common in woods Scattered in the south Locally common, e.g. Chiancate Widespread and very common Locally common Near Peschici etc. Widespread and common Chiancate Varano Island Scattered records Near Peschici Alta Murgia 2012 North coast dunes Widespread on dry rocky turf Locally common in the north Foresta Umbra

Cultivated Cultivated Day 1 Near Vieste etc.

Noted in the north of the peninsula

Pulsano Gorge Noted in the south 2012 Monte Nero

A few seen, e.g. S.Marco in Lamis

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#### Anacardiaceae

Pistacia lentiscus Pistacia terebrinthus

#### Aceraceae

Acer campestre Acer opalus Acer obtusatum Acer pseudoplatanus

Rhamnaceae

Paliurus spina-christi

Rhamnus alaternus Rhamnus saxatilis

Vitaceae Vitis vinifera

Aquifoliaceae

Ilex aquifolium

Elaeagnaceae Elaeagnus angustifolia

Tiliaceae Tilia platyphyllos

## Malvaceae

Althaea hirsuta Lavatera cretica Lavatera arborea Lavatera olbia Malva cretica Malva neglecta Malva parviflora Malva sylvestris

## Thymelaeaceae

Daphne gnidium Daphne laureola

## Violaceae

Viola arvensis Viola graeca

Viola reichenbachiana Viola riviniana Viola suavis Mastic Tree Terebrinth

Field Maple Italian Maple a maple Sycamore

Christ's Thorn

Mediterranean Buckthorn a buckthorn

Grape

Holly

Oleaster

Large-leaved Lime

Rough Marsh-Mallow Smaller Tree-Mallow Tree Mallow Tree Lavatera a mallow Dwarf Mallow Least Mallow Common Mallow

a daphne Spurge Laurel

Field Pansy a violet

Early Dog Violet Common Dog Violet a violet Widespread and common Scattered throughout, locally common

Widespread Chiancate Chiancate Scattered records

Forming thorny scrub on Passo Ingarano and elsewhere Pulsano Gorge Pulsano Gorge and Ruggiano road

Widely cultivated, occasionally naturalised plants seen as at Lesina

In the Foresta Umbra and Bosco Quarto

Lake Lesina

Foresta Umbra

Near Rignano and near Vieste 2008 Margherita Saltpans etc. Locally common along the north coast Bari 2005 Near Vieste Peschici etc. Manfredonia etc. Widespread and common

Noted in leaf Scattered in fruit in the Foresta Umbra, Bosco Quarto, and around Monte St Angelo

Local. Not seen in recent years. = *V.heterophylla*. Widespread at higher levels. Both yellow and purple forms. Local in woods, e.g. Bosco Quarto Scattered in woods, e.g. Bosco Quarto Foresta Umbra and Bosco Quarto

Guttiferae		
Hypericum montanum	Mountain St John's-Wort	In leaf Pulsano road 2012
Hypericum perfoliatum	a St.John's-wort	Northern coastal lowlands, e.g. near Peschici
Hypericum perforatum	Perforate St John's-Wort	Scattered in leaf and bud
Cistaceae		
Cistus creticus	a cistus	Locally common along the north coast and lower north-facing hills, with several already in flower, also in the south
Cistus monspeliensis	Narrow-leaved Cistus	Locally common in flower in the north of the Peninsula
Cistus salvifolius	Sage-leaved Cistus	Locally common, as at Pulsano Gorge, and northern coastal dunes. Much in flower.
Fumana ericoides	a fumana	Pulsano Gorge
Fumana thymiifolia	Thyme-leaved Fumana	Northern coastal dunes
Helianthemum aegyptiacum	a rockrose	Scattered records, e.g. Ruggiano road
Helianthemum apenninum	White Rockrose	Widespread and locally common in the south
Helianthemum canum	Hoary Rockrose	Pulsano Gorge
Helianthemum lavandulaefolium	Lavender-leaved Rockrose	Pulsano Sanctuary 2006
Helianthemum nummularium	Common Rockrose	Pulsano road and gorge
Helianthemum salicifolium	Willow-leaved Rockrose	Locally common, as at Passo Ingarano
Tamaricaceae		
Tamarix gallica	Tamarisk	By the beach near Peschici
Tamarix africana	a tamarisk	Lake Lesina
Cucurbitaceae		
Bryonia dioica	White Bryony	Near the hotel in the north, 2012
Ecballium elaterium	Squirting Cucumber	Near Peschici, Margherita saltpans, Pulsano Sanctuary and Villa Rosa
Cactaceae		
Opuntia ficus-barbarus	Prickly Pear	Widespread
Myrtaceae		
Eucalyptus camaldulensis	River Red Gum	Planted on 'Varano island' and elsewhere
Myrtus communis	Common Myrtle	Scattered in the north
Punicaceae		
Punica granatum	Pomegranate	Cultivated along the northern coast, not noted 2013
Onagraceae		
Circaea lutetiana	Enchanter's Nightshade	Common in leaf in woodlands
Theligoniaceae		
Theligonium cynocrambe		Widespread, e.g. Passo Ingarano and near Vieste

<b>Celastraceae</b> Euonymus europaeus	Spindle	Scattered in woodlands in the southern hills
Cornaceae Cornus sanguinea	Dogwood	Near Vico
Araliaceae		
Hedera helix	Ivy	Local in woods. Some very robust specimens in Bosco Quarto.
Apiaceae		
Anthriscus sylvestrisBifora testiculataCaucalis platycarposChaerophyllum hirsutumCnidium silaifoliumConium maculatumConopodium capillifoliumDaucus carotaDaucus spp.Echinophora spinosaEchinophora tenuifoliaElaeoselinum asclepiumEryngium barrelieriEryngium campestreEryngium maritimumFerula communisFoeniculum vulgareLaserpitium garganicumOpopanax chironiumOpopanax hispidus	Cow Parsley Bifora Small Bur Parsley Hairy Chervil Hemlock Wild Carrot carrot spp. Field Eryngo Sea Holly Giant Fennel Fennel	In leaf at Monte Nero Near Peschici 2005 Dolina Pozzatina Foresta Umbra 2012 This species seen in leaf ? Manfredonia wetlands 2008 In flower on Chiancate Lowlands south of Manfredonia etc. Other species possibly present Leaves noted in northern dunes Leaves near Vieste Scattered in leaf, e.g. Passo Ingarano Entire basal leaves noted at a few sites, 2012 Scattered in leaf Dunes and sandy shores along north coast, in leaf Widespread and locally abundant, some very robust examples In leaf, 2011 Monte Nero, common in leaf, glabrous with elliptical lobes In leaf near Monte Nero In leaf in the Carbonara Valley etc., locally
Pimpinella sp. Sanicula europaea Scandix australis	a burnet saxifrage Sanicle a shepherd's-needle	common 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. ssp. <i>polyphyllum</i> . Also Monte St.Angelo. Some fine examples Alta Murgia 2012.
Smyrnium olusatrum Smyrnium rotundifolium Thapsia garganica Tordylium apulum Tordylium officinale Torilis arvensis Torilis nodosa	Alexanders Round-leaved Alexanders Thapsia Tordylium Spreading Hedge Parsley Knotted Hedge Parsley	Near hotel in north Locally common Widespread in leaf, with some in flower Widespread ands common Scattered records Recorded Margherita 2008
Ericaceae Erica arborea	Tree Heath	Very local, near Vico, and on roadsides on the northern slopes of Carbonara Valley

### Primulaceae

Anagallis arvensis Asterolinon linum-stellatum

Cyclamen hederifolium Cyclamen repandum

## Plumbaginaceae

Armeria canescens

Limonium vulgare

## Oleaceae

Fraxinus excelsior Fraxinus ornus Ligustrum vulgare Olea europea Phillyrea angustifolia Phillyrea latifolia

Apocynaceae

Nerium oleander Vinca major

Asclepiadaceae Vincetoxicum hirundinaria

Gentianaceae Blackstonia perfoliata

Centaurium erythraea Centaurium pulchellum

## Rubiaceae

Asperula arvensis

Cruciata laevipes Cruciata pedemontana Cruciata glabra Galium aparine Galium mollugo Galium murale Galium odoratum Galium rotundifolium Galium tricornutum Galium verum Galium verum Galium verum Sherardia arvensis Valantia hispida Valantia muralis Scarlet Pimpernel

Ivy-leaved Sowbread Spring Sowbread

a thrift

Common Sea-Lavender

Ash Manna Ash Privet Olive

Oleander Greater Periwinkle

Swallow-wort

Yellow-wort Common Centaury Lesser Centaury

Blue Woodruff

Cross-wort a cross-wort Cleavers Hedge Bedstraw a bedstraw Woodruff a bedstraw Corn Cleavers Lady's Bedstraw a bedstraw Wild Madder Sherardia Widespread, mostly the blue flowered form Widespread and locally common. Very small! Leaves scattered Widespread in woods in the north and centre of the peninsula, locally numerous in flower this year

Above Carpino, 2002! Northern Ruggiano road 2013. Salt marshes at Lesina, in leaf

Recorded Widespread in fine blossom Forming ground layer in Bosco Quarto Widely cultivated, and wild form seen too Northern lowlands Peschici area

Roadsides Dolina Pozzatina etc.

Recorded in 2002!

In leaf near Peschici 2012 Noted in leaf Some very small examples in flower

Arable weed near Chiancate. Also transfer day. Numerous as an arable weed in one field in Alta Murgia 2012. Scattered records Monte Nero 2011 Carbonara Valley 2011 Scattered throughout Scattered records, e.g. near Vieste Pulsano road etc. Foresta Umbra, in flower In leaf Foresta Umbra 2013 Arable field in Carbonara Valley Locally in leaf Scattered records Peschici etc., in good flower Widespread and very common Recorded Widespread

## Convolvulaceae

Calystegia soldanella Calystegia sylvatica Convolvulus arvensis Convolvulus cantabrica Convolvulus elegantissimus

Convolvulus lineatus Convolvulus pentapetaloides Cuscuta epithymum

### Boraginaceae

Alkanna tinctoria Anchusa cretica

Anchusa italica Anchusa officinalis Borago officinalis Buglossoides arvensis Buglossoides purpurocaerulea

Cerinthe major Cynoglossum cheirifolium Cynoglossum creticum Echium italicum/asperrinum

Echium parviflorum Echium plantagineum Myosotis arvensis Myosotis ramosissima Myosotis sylvatica Onosma echioides Pulmonaria vallarsae Pulmonaria spp.

Symphytum bulbosum Symphytum tuberosum

### Lamiaceae

Acinos alpinus Acinos arvensis Acinos suaveolens Ajuga chamaepitys Ajuga genevensis Ballota nigra Corydothymus capitatus Lamium album Lamium amplexicaule Lamium bifidum Lamium garganicum

Lamium hybridum Lamium maculatum Lamium purpureum Marrubium incanum Sea Bindweed Great Bindweed Field Bindweed Pink Convolvulus Mallow-leaved Bindweed

a bindweed a bindweed Common Dodder

Dyer's Alkanet an alkanet

Large Blue Alkannet Alkanet Borage Corn Gromwell Purple Gromwell

Honeywort a hound's-tongue Blue Hound's-Tongue Pyramidal Bugloss

Small-flowered Viper's-Bugloss Purple Viper's-Bugloss Field Forget-me-not Early Forget-me-not Wood Forget-me-not a golden-drop a lungwort lungworts

a comfrey Tuberous Comfrey

Alpine Basil-Thyme Basil-Thyme a basil-thyme Ground Pine Blue Bugle Black Horehound a thyme White Deadnettle Henbit Deadnettle a deadnettle Large Red Deadnettle

Cut-leaved Deadnettle Spotted Deadnettle Red Deadnettle a horehound North coast dunes in leaf Near Vico In leaf near Peschici Near Rignano 2012 Also known a *Convolvulus althaeoides* subspecies *elegantissimus*. Widespread. In flower on Varano Island 2012 West of Vieste Scattered records of presumably this species, in bud

Widespread and locally common Locally common, e.g. Bosco Quarto, above Carpino, Spina Pulci, and Chiancate North coast roadsides Noted on the first day 2011 Locally common Near Chiancate, arable weed Near Peschici, Passo Ingarano, above Carpino, southern woods, etc. Near Vieste etc. Passo Ingarano Lake Lesina lunch site Last years flower spikes scattered throughout - one or both species present Villa Rosa Widespread and locally common Scattered Scattered Local in woods, e.g. Bosco Quarto Pulsano Gorge and lower Ruggiano road Scattered in woodlands Others possibly seen. P.hirta, P.mollis, and P.officinalis also occur. Monte Nero Bosco di Spina Pulci

Pulsano Gorge Recorded in the south, e.g. Pulsano Gorge Monte Nero 2011 Above Cagnano, Pulsano Sanctuary Above Cagnano Noted in leaf 2012 Pulsano road etc., common in leaf Recorded Passo Ingarano Scattered Widespread, e.g on walls and cliffs around Monte St.Angelo, where large pink flowers. Elsewhere usually smaller white flowered form A few records Foresta Umbra Scattered records Widespread in leaf

Marrubium vulgare Mentha arvensis Micromeria graeca Origanum heracleoticum Origanum vulgare Phlomis herba-venti Prasium majus

Prunella laciniata Prunella vulgaris Rosmarius officinalis

Salvia argentea

Salvia officinalis Salvia verbenaca Satureja cuneifolia Satureja montana Sideritis romana Sideritis syriaca

Stachys cretica Stachys officinalis Teucrium chamaedrys Teucrium polium Thymus pulegioides

Thymus vulgaris

#### Solanaceae Hyoscyamus albus

Solanum nigrum Solanum sodomeum Datura stramonium

## Buddlejaceae

Buddleja davidii

#### Scrophulariaceae

Antirrhinum siculum Bellardia trixago Cymbalaria muralis

Digitalis ferruginea Euphrasia pectinata Linaria pelisseriana Linaria purpurea Linaria simplex

Linaria vulgaris Misopates orontium Parentucellia latifolia Parentucellia viscosa Scrophularia canina Scrophularia peregrina Scrophularia vernalis White Horehound Corn Mint

a marjoram Marjoram a phlomis Prasium

Cut-leaved Self-heal Self Heal Rosemary

Silver Sage

Sage Wild Clary a savory Winter Savory

Mediterranean Woundwort Betony Wall Germander Felty Germander Large Thyme

Thyme

Henbane

Black Nightshade Apple of Sodom Thornapple

Buddleja

Sicilian Snapdragon Bellardia Ivy-leaved Toadflax

Rusty Foxglove an eyebright Jersey Toadflax Purple Toadflax a toadflax

Common Toadflax Weasel's Snout Southern Red Bartsia Yellow Bartsia French Figwort Nettle-leaved Figwort a figwort Leaves noted In leaf A few records In leaf at Pulsano sanctuary 2011 Leaves noted Leaves noted in the north Local, e.g. Passo Ingarano, near Peschici, and Pulsano Gorge One along Ruggiano road 2011 In leaf On 2 days in the north, and on cliffs south of Monte St.Angelo Widespread in leaf in the south, in flower Ruggiano road In leaf Widespread and common Scattered records Widespread Pulsano Gorge =S.italica. Very advanced this year with a few almost in flower. Widespread in the north, in leaf In leaf, Monte Nero In leaf In leaf Scattered records. In flower above Cagnano. Pulsano Gorge

In flower on the walls of Pulsano Sanctuary, and tower near Peschici Near Peschici 2008 One plant near Peschici 2011 Previous years' fruiting plants by Lake Lesina, 2005. Gone over near Peschici.

Scattered - naturalised or planted

Common along roads in the north Torre Mileto On walls at Pulsano Sanctuary, and Monte St.Angelo Scattered in leaf, e.g. Passo Ingarano Pulsano Gorge Ruggiano road and Serapias apulica site Roadsides in north 2012 1 plant in Carbonara valley (peony site) 2008. 2012, 1, Ruggiano road. Near Peschici 2007 Pulsano Gorge, and near Vieste Locally common in the hills Scattered in leaf Scattered records in leaf Foresta Umbra In flower in Foresta Umbra 2012

Verbascum densiflorum Verbascum phlomoides Verbascum phoeniceum Verbascum pulverulentum Verbascum sinuatum Verbascum thapsus Veronica acinifolia Veronica arvensis Veronica chamaedrys Veronica chamaedrys Veronica cymbalaria Veronica hederifolia Veronica montana Veronica persica Veronica polita Veronica serpyllifolia

### Orobanchaceae

Orobanche amethystea

Orobanche caryophyllacea Orobanche gracilis Orobanche lavandulacea

Orobanche loricata Orobanche minor Orobanche pubescens Orobanche ramosa

## Myoporaceae

Myoporum laetum

## Globulariaceae

Globularia punctata

## Plantaginaceae

Plantago afra Plantago albicans Plantago arenaria Plantago bellardii Plantago coronopus Plantago holosteum Plantago lagopus Plantago lanceolata Plantago major Plantago serraria Plantago subulata

## Caprifoliaceae

Lonicera caprifolium Lonicera etrusca Lonicera implexa Lonicera xylosteum Sambucus ebulus

Sambucus nigra

a mullein Orange Mullein Purple Verbascum Hoary Mullein a mullein Aaron's Rod French Speedwell Wall Speedwell Wall Speedwell Germander Speedwell White Speedwell Ivy-leaved Speedwell Persian Speedwell Grey Field Speedwell Thyme-leaved Speedwell

a broomrape

Clove-scented Broomrape Slender Broomrape a broomrape

Oxtongue Broomrape Common Broomrape a broomrape Branched Broomrape

Ngaio

Globularia

a plantain Silvery Plantain Branched Plantain a plantain Buck's-horn Plantain a plantain Ribwort Plantain Greater Plantain a plantain a plantain

Perfoliate Honeysuckle Etruscan Honeysuckle a honeysuckle Fly Honeysuckle Dwarf Elder

Elder

Roadsides North coast dunes Near Peschici, Passo Ingarano, etc. Roadsides Widespread in leaf North Coast Near Chiancate etc., 2008 Walls in Foresta Umbra etc. Foresta Umbra 2008 Scattered records, e.g. hotel in north Recorded Foresta Umbra 2012 Scattered records, e.g. Foresta Umbra Near Bosco Quarto 2012 Bosco Quarto

On *Eryngium campestre*, noted on one day, 2007 Pulsano Gorge, parasitic on *Galium* Pulsano Gorge, on legumes On *Psoralea bituminosa*, near Peschici, 2007 3 above Cagnano 2011. 2013 near Vieste. Pulsano Gorge Probably this species on the first day 2008 Varano Island etc.

Lake Lesina, native to New Zealand

Monte Nero

Passo Ingarano etc. Pulsano road 2012 Scattered North coast North coast Recorded 2012 Widespread Scattered throughout A few records Locally frequent particularly in the north Monte Nero, one plant

Bosco Quarto, in leaf In leaf in the north North coast dunes, in leaf Bosco Quarto, in leaf Noted in the north of the peninsula, in leaf 2012 Recorded

## Valerianaceae

Centranthus ruber

Valeriana collina

Valerianella dentata Valerianella locusta

## Dipsacaceae

Cephalaria transylvanica Dipsacus fullonum

Scabiosa atropurpurea Scabiosa columbaria Scabiosa dallaportae

### Campanulaceae

Campanula erinus Campanula garganica

Legousia hybrida Legousia speculum-veneris

### Asteraceae

Achillea millefolium Anacyclus tomentosus Anthemis altissima Anthemis arvensis Anthemis cotula Anthemis maritimus

Anthemis praecox Anthemis tinctoria Arctium nemorosum

Artemisia arborescens Artemisia campestris Aster tripolium Bellis perennis Bellis sylvestris Calendula arvensis Carduus acicularis Carduus macrocephalus

Carduus pycnocephalus Carlina corymbosa Carlina vulgaris Centaurea calcitrapa Centaurea melitensis Centaurea nicaeensis Centaurea subtilis

Centaurea triumfetti

Chrysanthemum coronarium

Red Valerian

a valerian

Narrow-fruited Corn Salad Common Corn Salad

Wild Teasel

Mournful Widow Small Scabious a scabious

a bellflower a bellflower

Venus's Looking Glass Large Venus's Looking Glass

Yarrow Anacyclus a chamomile Corn Chamomile Stinking Chamomile a chamomile

a chamomile Yellow Chamomile a burdock

a wormwood Field Wormwood Sea Aster Daisy Southern Daisy Field Marigold a thistle a thistle

a thistle Flat-topped Carline Thistle Carline Thistle Red Star Thistle Maltese Star Thistle a star thistle a knapweed

a knapweed

Crown Daisy

Locally common on roadsides in south, and near Vico Locally common in limestone turf in the south Scattered in the north Widespread. Other species possibly present.

In bud at the tower near Peschici, 2008 Last years' dead seed heads in Carbonara valley Roadsides near Manfredonia Scattered in leaf Many cushions along Pulsano Gorge

Manfredonia and Pulsano Sanctuary Endemic. In good flower this year in Pulsano Gorge and near Peschici. One at Passo Ingarano, Carbonara etc. In fine flower in arable field near *Paeonia peregrina* site, 2008.

In leaf Near Peschici etc. Possibly this species at Margherita Scattered records Scattered records Noted along the north coast, with many in flower Possibly this species in Pulsano Gorge Noted in leaf, Carbonara valley Last year's fruiting heads in Foresta Umbra Roadside near Peschici Recorded in the south 2008 Lake Lesina Widespread Widespread, e.g. Bosco di Spina Pulci Scattered records Widespread Scattered in flower this year, e.g. Passo Ingarano and near Sannicandro Passo Ingarano etc. Scattered old flowering heads Old flowering heads widespread Scattered records in leaf In bud 2012 Recorded in bud at Manfredonia, 2007 Endemic. This was the species with purple flowers and grey foliage in Pulsano gorge, 2008 and 2011. Ruggiano viewpoint in bud. In flower on Chiancate, and in bud Monte Nero Abundant on motorway verges

Chrysanthemum segetum Cichorium intybus Cirsium arvense Cirsium morisianum Conyza canadensis Crepis rubra Crepis vesicaria Crepis spp. Crupina crupinastrum Cynara cardunculus Dittrichia graveolens Dittrichia viscosa Doronicum columnae

Doronicum orientale Evax pygmaea Filago pyramidata Galactites tomentosa Hedypnois rhagadioloides Helichrysum italicum Helichrysum stoechas Hieracium spp. Hyoseris radiata Hypochoeris glabra Hypochoeris achyrophorus Inula conyzae Inula crithmoides Inula verbascifolia

Jurinea mollis Lapsana communis Leontodon sp. Matricaria chamomilla Otanthus maritimus Pallenis spinosa Phagnalon rupestre

Picris echioides Reichardia picroides Rhagadiolus edulis Rhagadiolus stellatus Scorzonera hirsuta Scorzonera laciniata Senecio rupestris Senecio tenorei Senecio vulgaris Silybum marianum Sonchus arvensis Sonchus asper Sonchus oleraceus Sonchus tenerrimus Taraxacum officinale Taraxacum laevigatum

Tragopogon crocifolius

Tragopogon pratensis Tyrimnus leucographus Urospermum dalechampi Corn Marigold Chicory Creeping Thistle a thistle Canadian Fleabane Pink Hawksbeard Beaked Hawksbeard hawksbeard spp. Crupina Cardoon Stink Aster a stink aster a leopard's bane

a leopard's bane Evax Broad-leaved Cudweed Galactites Hedypnois

Helichrysum hawkweed spp.

Smooth Cat's-ear Mediterranean Cat's-ear Ploughman's Spikenard Golden Samphire

Jurinea Nipplewort

Scented Mayweed Cottonweed

#### Bristly Ox-Tongue

a star hawk-bit Star Hawk-bit a viper's grass Cut-leaved Viper's Grass a ragwort a ragwort Groundsel Milk Thistle Field Sow-Thistle Prickly Sow-thistle Smooth Sow-Thistle a sow-thistle Dandelion a dandelion

a goat's-beard

Goat's-beard Tyrimnus Urospermum Noted in the north Manfredonia Scattered records Rather widespread North coast 2012 Widespread throughout Scattered records Several other species not identified Widespread, several in flower In leaf near Vico Scattered in salt marshes and coastal areas Scattered in leaf Rock faces in the southern hills, e.g. Monte St.Angelo Widespread in woods Pulsano Gorge and Ingarano Pulsano Gorge Widespread Passo Ingarano, near Peschici etc. In leaf above Carpino Near Peschici Various species not identified Widespread Widespread Locally very common, e.g. Peschici In bud near Dolina Pozzatina Lake Lesina Common in leaf very locally in Pulsano gorge, Monte St.Angelo, and Ruggiano road cliffs In bud in Pulsano Gorge 2011 Recorded 2012 Pulsano road etc. Scattered North coast, in leaf Ruggiano road viewpoint and near Vieste Pulsano gorge, in bud, and lower Ruggiano road Scattered records, e.g. Pulsano gorge Scattered in the north Pulsano gorge Widespread in the north Widespread and locally common Recorded in the south 2008 Probably this species in Carbonara valley Chiancate and Bosco Quarto, in bud Scattered records Scattered throughout Near Peschici 2011 Widespread Scattered records Scattered records, e.g. Serapias apulica site Scattered Probably this species Monte Nero and Chiancate Purple flowers much exceeded by the bracts. Rather widespread. Scattered Ruggiano viewpoint 2013 Widespread

Urospermum picroides Xanthium strumarium Xeranthemum inapterum

Rough Cocklebur

## Monocotyledones

Lemnaceae

Lemna minor

Ruppiaceae Ruppia maritima

### Liliaceae

Allium cepa Allium neapolitanum Allium nigrum

Allium pendulinum Allium roseum Allium subhirsutum Allium trifoliatum Allium ursinum Asparagus acutifolius Asphodeline lutea

Asphodeline liburnica Asphodelus albus Asphodelus fistulosus Asphodelus microcarpus Asphodelus tenuifolius Bellevalia romana

Colchicum cupanii Gagea chrysantha

Lilium bulbiferum Muscari commutatum Muscari comosum Muscari neglectum Ornithogalum collinum Ornithogalum divergens Ornithogalum montanum

Ornithogalum narbonense Ornithogalum pyrenaicum Ornithogalum umbellatum Polygonatum multiflorum Polygonatum odoratum Ruscus aculeatus

Scilla bifolia Smilax aspera Tulipa sylvestris

Urginea maritima

Common Duckweed

Tassel Pondweed

Onion Naples Garlic a garlic

a garlic Rosy Garlic a garlic a garlic Ramsons an asparagus Yellow Asphodel

a yellow asphodel White Asphodel Hollow-stemmed Asphodel Common Asphodel an asphodel

Orange Lily a grape hyacinth Tassel Hyacinth Common Grape Hyacinth a star of Bethlehem a star of Bethlehem a star of Bethlehem

a star of Bethlehem Bath Asparagus Star of Bethlehem Common Solomon's Seal Angular Solomon's Seal Butcher's Broom

Alpine Squill Common Smilax Wild Tulip

Sea Squill

A few records Old fruiting plants on northern shores 2011 Pulsano road 2013

Pools at 100 Dolinas

Channel at Margherita Saltpans

1 naturalised plant, Carbonara valley Local along the north coast Noted in the north of the peninsula, Paeonia peregrina site, in bud, 2012. Locally common in hill woods Locally common, e.g. near Vieste Scattered, locally common Pulsano gorge. Foresta Umbra, in flower Widespread Widespread throughout and locally abundant as near San Giovanni Rotundo Noted in leaf at various sites In flower on Monte Nero Scattered records Widespread and very common A few records 2012 1 near Peschici 2005. 2013 1 near Chiancate. Noted in fruit 2005 1 in the Bosco Quarto in flower 2011, and in 2012 circa 20 there. 2013 all in fruit. Leaves in Bosco Quarto Passo Ingarano, 2007 Widespread and locally very common Widespread and locally common Scattered records Widespread in the north Locally common, mostly in the southern hills Wild at Bari Airport 2011 Noted in the Carbonara Valley 2002! Scattered records Bosco Quarto etc. Bosco Quarto 2012 Scattered records in woods, and near Peschici 1 on Chiancate 2005 Locally very common Usually abundant in the Carbonara Valley, flowering in arable fields. Only a few leaves seen this year. Widespread in leaf

#### Agavaceae

Agave americana

## Amaryllidaceae

Galanthus nivalis Narcissus poeticus Narcissus tazetta

Pancratium maritimum

## Dioscoraceae

Tamus communis

## Iridaceae

Gladiolus communis Gladiolus italicus

Crocus longiflorus Hermodactylus tuberosus Iris bicapitata

Iris foetidissima Iris germanica Iris lutescens

Iris pseudacorus Iris pseudopumila

Gynandiris sisyrinchium

Romulea bulbocodium

Palmae Phoenix dactylifera

#### Araceae Arisarum vulgare

Arum italicum Arum maculatum

## Typhaceae

Typha angustifolia Typha latifolia

#### Juncaceae

Luzula campestris Luzula pilosa Luzula forsteri

#### Century Plant

Snowdrop Pheasant's-eye Daffodil

Sea Daffodil

Polyanthus Narcissus

Black Bryony

a gladiolus Field Gladiolus

a crocus Widow Iris an iris

Gladdon Tall Bearded Iris an iris

Yellow Flag an iris

Barbary Nut

Date Palm

Friar's Cowl Italian Lords-and-Ladies Lords-and-Ladies

Lesser Reedmace Great Reedmace

Field Woodrush Hairy Woodrush Narrow-leaved Woodrush A few noted

Leaves in Foresta Umbra Locally very common in the hills Chiancate, but none still in flower this year. Also in fruit Ruggiano road, and several other sites. Leaves in north coast dunes

Scattered records

*Serapias apulica* site Scarce in 2011, but many in one field near Villa Rosa. 2012 Varano roadsides etc. 2013 several in the north. In leaf at Chiancate and in Bosco Quarto Widespread but all in fruit this year A few of this endemic species south of Carpino, both yellow and purple flowered forms, many fewer in flower than usual In fruit and leaf in Foresta Umbra Scattered by roadsides etc., naturalised Widespread and locally abundant – this iris is usually purple, although a few yellow flowered forms seen near Ruggianoetc. Vasca del Lago Salso, in fine flower, 2008 Widespread and common, e.g. Carbonara valley. Very few in flower this year. Only 2, at Serapias apulica site 2011 and 2012 Just 1 on Chiancate, 2006. 2012, 2 there gone over. 2013 gone over at several sites.

Noted in the north

Leaves only Widespread and locally common Noted in leaf

Lake Lesina Southern wetlands

Carpino area etc. Foresta Umbra Foresta Umbra etc.

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Juncus acutus Juncus littoralis Juncus maritimus

### Poaceae

Aegilops geniculata Aira caryophyllea Ammophila arenaria Ampelodesmos mauretanicus Anisantha diandra Anisantha madritensis Anthoxanthum odoratum Arundo donax Avena barbata Avena fatua Brachypodium sylvaticum Briza maxima Bromus hordeaceus Bromus rigidus Catapodium marinum Catapodium rigidum Dactylis glomerata Elytigia farcta Festuca gigantea Festuca rubra Hordeum hystrix Hordeum murinum Lagurus ovatus Lolium perenne Melica uniflora Phalaris paradoxa Phleum pratense Phragmites australis Poa annua Poa bulbosa Poa compressa Poa pratensis Setaria pumila Stipa capensis Stipa pennata

## Cyperaceae

Carex caryophyllea Carex flacca Carex sylvatica Eleocharis palustris Schoenus nigricans

Orchidaceae Aceras anthropophorum

Anacamptis pyramidalis

Sharp Rush a rush Sea Rush

Silver Hair-grass Marram-grass

Great Brome Compact Brome Sweet Vernal-grass Giant Reed Bearded Wild-oat Common Wild-oat Wood False-brome Large Quaking-grass Soft Brome Stiff Brome Darnel-fescue Fern-grass Cock's-foot Sand Couch Giant Fescue Red Fescue a barley Wall Barley Hare's-tail Perennial Rye-grass Mountain Melick a canary-grass Timothy Reed Annual Meadow-grass **Bulbous Meadow-grass** Flattened Meadow-grass Smooth Meadow-grass Yellow Bristle-grass Mediterranean Needle-grass Needle-grass

Margherita area Lake Lesina Margherita saltmarshes

Passo Ingarano, near Peschici etc. Manfredonia North coast dunes North coast lakes etc. Scattered records Pulsano Gorge and the north Widespread and very common Locally common Local Scattered Scattered records Locally very common Scattered Recorded North coast dunes Scattered in the north Widespread and frequent North coast dunes Scattered, e.g. near Vieste Near Carpino Margherita saltmarshes Locally abundant Scattered Scattered Near Peschici Near Peschici Scattered Forming extensive beds on lake shores Widespread and common Viviparous. Common. Local Scattered Locally common in the north Locally dominant This species, or perhaps Stipa austroitalica, in the Manfredonia area

Spring Sedge Glaucous Sedge Wood Sedge Common Spike-rush Black Bog-rush

Man Orchid

Pyramidal Orchid

Widespread in grassland Locally common in grassland Scattered records Recorded 2008 Lake Lesina 2008

Widespread and locally common. Seen on 8 days. The usual colony near Vieste was in fine flower. Seen on two other days too this year.

Barlia robertiana	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:- all gone over.
Cephalanthera damasonium	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.
Cephalanthera longifolia	Sword-leaved Helleborine	2007:- 1 in fine flower in Foresta Umbra 2013:- in fine flower in Foresta Umbra
Dactylorhiza maculata	Heath Spotted Orchid	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.
Dactylorhiza romana	Roman Orchid	<ul> <li>2012 and 2013:- only in leaf and bud.</li> <li>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.</li> <li>2008:- only above Carpino and Bosco Quarto</li> <li>2011:- Locally common Spina Pulci, Carpino, Foresta Umbra, and Bosco Quarto. All of yellow form.</li> <li>2012 and 2013:- as in 2011.</li> </ul>
Dactylorhiza sambucina	Elder-flowered Orchid	Small numbers in the Bosco Quarto and Monte Nero areas
Epipactis helleborine	Broad-leaved Helleborine	Leaves seen near Vico del Gargano
Épipactis microphylla	Small-leaved Helleborine	Leaves seen near Vico del Gargano
Gymnadenia conopsea	Fragrant Orchid	In early bud near Vieste, 2012
Himantoglossum hircinum	Lizard Orchid	In bud along Ruggiano road and Alta Murgia 2012. 2013 in leaf and bud at a few sites.
Limodorum abortivum	Violet Birdsnest	Several seen near Vico 2008. 2013 two spikes seen.
Listera ovata	Common Twayblade	Leaves and early shoots at Monte Nero 2012
Neotinea intacta	Dense-flowered Orchid	Several in leaf or bud near Carpino, also near Bosco Quarto, and Monte Nero, in flower
Neottia nidus-avis	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.
Ophrys apulica Ophrys archipelagi	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. Also seen Alta Murgia in 2012. This odd bee orchid was formerly included in the <i>'arachnitiformis'</i> species complex.
		Still little understood. Several on Passo Ingarano 2012, gone over 2013.

Ophrys bertolonii	Bertoloni's Ophrys	A very beautiful species. Quite common around Monte St Angelo where often grew with the following species. Quite a number
Ophrys bertoloniiformis		seemed close to the 'saratoi' form with a pink-hued speculum. Endemic. Quite common around Monte St Angelo and elsewhere in the southern hills.
Ophrys bilunulata		Also Passo Ingarano in 2008. 2007:- Just one seen, near the Carbonara Valley.
Ophrys biscutella	Spectacle Ophrys	<ul> <li>2011:- 3 along Pulsano road.</li> <li>2012:- 1 along Pulsano road.</li> <li>This should probably now be called <i>Ophrys lupercalis</i>.</li> <li>Endemic to southern Italy. Noted in small</li> </ul>
	2F111111 0F1150	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.
		<ul> <li>2007:- only Spina Pulci (3), and several in Carbonara valley.</li> <li>2011:- Spina Pulci, en route to Monte St. Angelo, and Monte Nero.</li> <li>2012:- fine examples on 5 days.</li> </ul>
Ophrys bombyliflora	Bumble-Bee Orchid	2013:- seen on 7 days. Widespread. Seen near Peschici, near
Ophrys fuciflora	Late Spider Orchid	Vieste, Pulsano gorge, and Passo Ingarano. A few on Passo Ingarano, 2008 2012:- 2 just coming into flower Pulsano
Ophrys funerea	Dull Ophrys	Gorge 2013:- <i>Paeonia peregrina</i> site Very scarce, a few near Carbonara Valley, 2011. Also Passo Ingarano 2008. 2012:- many at the Carbonara Valley site. 1 Pulsano road.
Ophrys garganica	Gargano Ophrys	2013:- many at the Carbonara valley site. Endemic to Southern Italy. Widespread and often common. Seen most days.
Ophrys incubacea	Dark Ophrys	Widespread in small numbers.
Ophrys lutea	Yellow Bee Orchid	Very similar to O.sicula and O.phryganae –
		but a lot larger in flower. The three are perhaps questionably separate. Pulsano road.
Ophrys melena		Perhaps one of this controversial taxon seen near Manfredonia 2012
Ophrys oestrifera		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> )
Ophrys parvimaculata	Small-patterned Ophrys	2013:- many fine examples Endemic. A distinctive rather pastel-shaded species. A few fine examples, on Passo
Ophrys phryganae Ophrys promontorii		Ingarano. Widespread and reasonably common. Endemic. Quite common in the hills around
Ophrys sphegodes	Early Spider Orchid	Monte St Angelo. Several above Carpino. Scattered. Not uncommon. Pulsano
Ophrys sicula		Gorge, Ruggiano road etc. Locally very common –noted most days

Ophrys sipontensis	Siponto Ophrys	A very rare local endemic. A few this year, along the Ruggiano road. Another example
		discovered at a new site for us too.
Ophrys tenthredinifera	Sawfly Orchid	Widespread and locally common
Ophrys virescens		Very local on Chiancate. c.20 plants seen
		2011. 2012 and 2013, c.30 in fine
		condition.
Ophrys bertolonii x promontorii		Probably this hybrid along the Pulsano
		road 2011
Ophrys bertolonii x tenthredinifero	a	Probably this hybrid along Pulsano road,
	1	several fine plants 2011
Ophrys bertoloniiformis x biscutel	la	2012, possibly this hybrid
Ophrys garganica x promontorii		2012, possibly this hybrid
Ophrys oestrifera x apulica		2008 :- possibly 1 near Peschici
Ophrys parvimaculata x exaltata	····	2008 :- Passo Ingarano
Ophrys parvimaculata x tenthredin	nifera	2008 :- Passo Ingarano
Ophrys promontorii x sipontensis		2007:- Probably this hybrid along the
		Ruggiano road. Also 2012.
Ophrys sipontensis x bertolonii		2012, Ruggiano road
Ophrys archepelagi x parvimacula		Apparently this hybrid Passo Ingarano 2013
Ophrys bertoloniformis x promont		Apparently this hybrid 2013
Orchis collina	Fan-lipped Orchid	Gone over near Borgo Celano 2008
Orchis fragrans	Fragrant Bug Orchid	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.
Orchis italica	Naked Man Orchid	Widespread and very common. Seen daily.
Orchis lactea	Milky Orchid	Only along the Pulsano road near Monte St
		Angelo where only one left in flower.
Orchis morio	Green-winged Orchid	Widespread – very common in the hills.
	-	Seen daily.
Orchis picta		The Mediterranean vicariant of Green-
		winged Orchid and perhaps doubtfully
		distinct. A few plants noted.
Orchis papilionacea	Pink Butterfly Orchid	Widespread and often very abundant.
1 1	5	Swarms of thousands seen in some
		localities in the northern hills. Seen daily.
Orchis pauciflora	Sparse-flowered Orchid	Locally common on Chiancate where some
	I	unusually robust specimens were perhaps
		some of the most beautiful orchids of the
		holiday. Also Monte Nero.
Orchis provincialis	Provence Orchid	Very scarce. Seen only in the northern part
erens prerinetans		of Foresta Umbra, and near Bosco Quarto.
		Also seen along Vieste road in Foresta
		Umbra in 2008.
Orchis purpurea	Lady Orchid	Widespread. Superb near Vico in particular.
Orchis quadripunctata	Four-spotted Orchid	Locally frequent on dry southern slopes.
Orenis quadripunciala	I our-spotted Orenia	Many exceptional specimens especially
		along the Pilgrim's Road near Monte St
		Angelo.
Orchis tridentata	Toothed Orchid	
Orchis intaentata Orchis ustulata		A few in bud along the Pulsano road 2008.
Orchis ustutata	Burnt-tip Orchid	Widespread though usually in small
		numbers – though quite common in places
		along the Pulsano road, Monte St Angelo.
		2011:- only 5 seen!
		2012:- a few at a few sites.
Orabia mari a ili		2013:- seen on 5 days.
Orchis morio x papilionacea		Not uncommon where the two parents grew
		together. Orchis xdebeauxii

Orchis italica x Aceras anthropophorum		This striking hybrid was seen along Pulsano road 2013
Platanthera chlorantha	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:- in leaf and bud Bosco Quarto and Monte Nero.
Serapias apulica	Apulian Serapias	Endemic to Southern Italy. Seen beside the motorway near Manfredonia, with several in fine flower.
Serapias bergonii	a tongue orchid	Seen at Alta Murgia 2012. Seen at one site near Rignano 2006.
Serapias lingua	Tongue Orchid	Widespread, seen on 6 days
Serapias parviflora	Small-flowered Serapias	Only near Peschici, and 1 at <i>Serapias apulica</i> site 2011. Not in 2012. 2013 on 5 days.
Serapias orientalis		A very robust specimen at Manfredonia Wetlands 2008. 2013 several in the southern hills.
Serapias vomeracea	Plough-share Serapias	Widespread – the commonest tongue orchid. Some fine tall specimens seen. 2012 many fewer than usual, with most seen only in bud. 2013 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 Papilio machaon Scarce Swallowtail Iphiclides podalirius Zerynthia polyxena Southern Festoon

#### Pieridae

Large White Small White Green-veined White [Southern Small White [Mountain Small White

Eastern Bath White Eastern Dappled White Orange-Tip Clouded Yellow Berger's Clouded Yellow Colias alfacariensis Cleopatra Brimstone [Wood White

#### Lvcaenidae

Green Hairstreak Small Copper [Lesser Fiery Copper Little Blue Holly Blue Green-underside Blue Baton Blue Brown Argus Chapman's Blue

Adonis Blue Common Blue

#### Nymphalidae

Pieris brassicae Artogeia rapae Artogeia napi Artogeia mannii Artogeia ergane

Pontia edusa Euchloe ausonia Anthocharis cardamines Colias crocea Gonepteryx cleopatra *Gonepteryx rhamni* Leptidea sinapis

Callophrys rubi Lycaena phlaeas Lycaena thersamon *Cupido minimus* Celastrina argiolus Glaucopsyche alexis Pseudophilotes baton Aricia agestis Agrodiaetus thersites

Lysandra bellargus Polyommatus icarus

[Large Tortoiseshell Nymphalis polychloros 2 in Pulsano gorge 2012] Painted Ladv Cynthia cardui A few records Red Admiral Vanessa atalanta Scattered records 2 larvae on Parietaria near Peschici Southern Comma Polygonia egea Queen-of-Spain Fritillary Issoria lathonia Carbonara Valley and Monte Nero **Glanville Fritillary** Melitaea cinxia Cento Pozzi **Knapweed Fritillary** Some rather atypically coloured examples at Cento Melitaea phoebe Pozzi [Spotted Fritillary Melitaea didyma 1 in Pulsano Gorge was a new record for us in the Gargano, 2007] [Heath Fritillary Mellicta athalia Rather widespread as larvae, e.g. on Plantago, but also found on some very odd plants such as Iris in the past.] [Marsh Fritillary Euphydryas aurinia 1 on Chiancate was the first we had ever seen in the Gargano and may be a new record for the Promontory, 2007.]

Widespread and rather common Widespread in small numbers Rather widespread this year

Scattered in small numbers Scattered records Seen in the south 4 near Pulsano Sanctuary 2005] 1 near Carbonara Valley, on Aethionema saxatile, a new Gargano record? 2005] Widespread in small numbers Pulsano Gorge, and Ruggiano road etc. Widespread in small numbers Widespread in small numbers A few in the south Seen on the first day, and Pulsano road Scattered records Noted on two days 2007]

Widespread in small numbers Scattered records A male near Peschici 2012 was a good record] Pulsano road, Ruggiano road, Chiancate, etc. Scattered records Pulsano gorge and a few in the north Pulsano gorge and Ruggiano road etc. Widespread in small numbers Pulsano road and gorge, and Ruggiano road. Locally very common. Pulsano gorge, Carbonara valley etc. Scattered records

#### <u>Satyridae</u>

Italian Marbled White Small Heath Wall Brown

Melanargia arge Coenonympha pamphilus Lasiommata megera

Pararge aegeria

#### **Hesperiidae**

Speckled Wood

Grizzled Skipper Rosy Grizzled Skipper [Red Underwing Skipper Spialia sertorius Mallow Skipper [Dingy Skipper

Pyrgus malvae Pyrgus onopordae Carcharodus alceae Erynnis tages

Some fine examples in the south Widespread and reasonably common Widespread and notably common this year, seen at many sites Local in woods, e.g. Foresta Umbra

Scattered records Carbonara valley 1 near Vieste, 2007] Villa Rosa, Pulsano, etc. 1 on Chiancate 2011]

#### Systematic List Number 3

Little Grebe Great Crested Grebe Cormorant Greater Flamingo

Cattle Egret Little Egret Great Egret White Stork Spoonbill Shelduck Mallard Pochard Ferruginous Duck Honey Buzzard Buzzard Marsh Harrier

Montagu's Harrier Kestrel Hobby Water Rail Coot

Black-winged Stilt

Avocet Ringed Plover Kentish Plover Little Stint Curlew Sandpiper

Dunlin

Ruff Jack Snipe Common Snipe Wood Sandpiper

Common Sandpiper Mediterranean Gull Little Gull Black-headed Gull Yellow-legged Herring Gull Slender-billed Gull Common Tern Little Tern Rock Dove Wood Pigeon Collared Dove Cuckoo **Ring-necked Parakeet** Scops Owl Common Swift European Bee-eater

Hoopoe Green Woodpecker Tachybaptus ruficollis Podiceps cristatus Phalacrocorax carbo Phoenicopterus phoenicopterus

Bubulcus ibis Egretta garzetta Egretta alba Ciconia ciconia Platalea leucorodia Tadorna tadorna Anas platyrhynchos Aythya ferina Aythya nyroca Pernis apivorus Buteo buteo Circus aeruginosus

Circus pygargus Falco tinnunculus Falco subbuteo Rallus aquaticus Fulica atra

Himantopus himantopus

Recurvirostra avosetta Charadrius hiaticula Charadrius alexandrinus Calidris minuta Calidris ferruginea

Calidris alpina

Philomachus pugnax Lymnocryptes minimus Gallinago gallinago Tringa glareola

Actitis hypoleuca Larus melanocephalus Larus minutus Larus ridibundus Larus cachinnans Larus genei Sterna hirundo Sterna albifrons Columba livia Columba palumbus Streptopelia decaocto Cuculus canorus Psittacula krameri Otus scops Apus apus Merops apiaster

Upupa epops Picus viridis

#### Birds

A few on Lake Lesina A few on Lake Lesina, and at Margherita North coast and southern wetlands Many at the Margherita Saltpans, a few on Lake Lesina Lake Lesina Manfredonia wetlands and Lake Lesina Lake Lesina and southern wetlands On a nest at Manfredonia 3 in southern wetlands Several at Margherita Saltpans Lake Lesina and the south Lake Lesina c.5 at Lake Lesina 1 on the penultimate day Widespread in small numbers Widespread in small numbers, e.g. Lake Lesina A female over Passo Ingarano Widespread One west of Vieste Heard at Lake Lesina Numerous on Lake Lesina, and at Margherita Several at the Margherita Saltpans, and Lake Lesina Rather common at Margherita Saltpans 1 at Margherita A few at Margherita Saltpans Several at Margherita Saltpans Several at Margherita Saltpans, in breeding plumage Several at Margherita Saltpans, in breeding plumage 1 at Margherita Saltpans 1 west of Vieste Lake Lesina Several at Lake Lesina, 1 at Margherita Saltpans A few wetland records Margherita Saltpans, breeding plumage 1 at Margherita in breeding plumage Scattered records Widespread and locally numerous Common at Margherita Saltpans Lake Lesina A few in southern wetlands Widespread near habitation Widespread in small numbers Scattered records near habitation Heard often, seen on two days Seen near Molfetta Heard in Monte St.Angelo Widespread and common Heard almost daily at many sites, with several sightings Scattered records Heard several times in the forested hills

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Great Spotted Woodpecker White-backed Woodpecker Lesser Spotted Woodpecker Crested Lark Woodlark Swallow Red-rumped Swallow House Martin Grey-headed Wagtail White Wagtail Wren Black-eared Wheatear Blue Rock Thrush Whinchat Stonechat Robin Nightingale Blackbird Song Thrush Cetti's Warbler Fan-tailed Warbler Great Reed Warbler Sardinian Warbler Subalpine Warbler Lesser Whitethroat Common Whitethroat Garden Warbler Blackcap Bonelli's Warbler Goldcrest Firecrest Long-tailed Tit Marsh Tit Blue Tit Great Tit Nuthatch Common Treecreeper Penduline Tit Golden Oriole Woodchat Shrike Magpie Jay Jackdaw Hooded Crow Starling Italian Sparrow Chaffinch

Serin Greenfinch Goldfinch Linnet Yellowhammer

Cirl Bunting Corn Bunting

Dendrocopos major Dendrocopos leucotos Dendrocopos minor Galerida cristata Lullula arborea Hirundo rustica Hirundo daurica Delichon urbica Motacilla flava cinereocapilla Motacilla alba Troglodytes troglodytes Oenanthe hispanica Monticola solitarius Saxicola rubetra Saxicola torquata Erithacus rubecula Luscinia megarhynchos Turdus merula Turdus philomelos Cettia cetti *Cisticola juncidis* Acrocephalus arundinaceus Sylvia melanocephala Sylvia cantillans Sylvia curruca Sylvia communis Sylvia borin Sylvia atricapilla Phylloscopus bonelli Regulus regulus Regulus ignicapillus Aegithalos caudatus Parus palustris Parus caeruleus Parus major Sitta europaea Certhia familiaris Remiz pendulinus

Oriolus oriolus Lanius senator Pica pica Garrulus glandarius Corvus monedula Corvus corone cornix Sturnus vulgaris Passer domesticus italiae Fringilla coelebs Serinus serinus Carduelis chloris Carduelis carduelis Carduelis cannabina Emberiza citrinella

Emberiza cirlus Miliaria calandra Heard often 1 in Bosco Quarto Heard on Monte Nero and Chiancate Scattered records Occasionally heard Widespread and common A few west of Vieste Widespread A few at Margherita A few records Heard occasionally, a few seen Ruggiano road view point Ruggiano road view point Several records, seen on 4 days Scattered records Heard often, sometimes seen. Heard often and sometimes seen Widespread Foresta Umbra Heard on Varano 'island' Lake Lesina and Margherita Lake Lesina reed beds Widespread Widespread and reasonably common Heard occasionally Near Dolina Pozzatina Heard at various sites Widespread and reasonably common Heard in Foresta Umbra Heard occasionally Scattered records Varano and Day 7 Monte Nero Widespread Widespread Widespread in woodlands Scattered woodland records Seen very well at Lake Lesina, where nesting. Heard often, seen on two days 2 south of Foresta Umbra Very common. Noted daily. Widespread Scattered records Widespread. Noted daily. Bari area Widespread. Noted daily. Widespread and reasonably common Widespread in small numbers Widespread Widespread and common A few records Seen by the group near the hotel in the north? Widespread and rather common Widespread, heard regularly

#### Systematic List Number 4

Italian Crested Newt Italian Hybrid Frog

European Pond Terrapin Moorish Gecko

Green Lizard Italian Wall Lizard Italian Three-toed Skink Western Whip Snake

Four-lined Snake Dice Snake Triturus carnifex Rana kl.hispanica

Emys orbicularis Tarentola mauretanica

Lacerta bilineata Podarcis sicula Chalcides chalcides Coluber viridiflavus

Elaphe quatuorlineata Natrix tessellata

#### **Amphibians and Reptiles**

A few in a pond at Cento Pozzi Numerous at 100 Dolinas, heard in the north Cento Pozzi and Varano 'island' Rather common in Pulsano Gorge, also Ruggiano view point, and Margherita Scattered records, e.g. Carbonara Valley Widespread and common Pulsano road and Day 7 Four seen this year. Dark phase animals near Carbonara Valley, near Cento Pozzi, and Pulsano Gorge. A dark green animal in Carbonara Valley. A fine large individual at Lake Lesina 1 in a pond at 100 Dolinas

#### Systematic List Number 5

Western Hedgehog Roman Mole

#### Fox

Weasel Red Squirrel Savi's Pine Vole Hare Wild Boar Erinaceus europaeus Talpa romana

Vulpes vulpes

Mustela nivalis Sciurus vulgaris Pitymys savii Lepus europaeus Sus scrofa

#### Mammals

Road casualties Hills common. A dead individual on Passo Ingarano. One road casualty 2008. Sign 2011. 2012 one on Chiancate, one Carbonara Valley. 1 in Bosco Quarto seen well (PGC) 2011 Sign, knawed pinecones , north coast Burrows noted One on Monte Nero Rooting activity widespread