

# Sardinia

## *A Tyrrhenian Spring*

### A Greentours Trip Report

29<sup>th</sup> March to 5<sup>th</sup> April 2019

Led by Paul Cardy

Trip Report written by Paul Cardy

#### **Day 1 Friday 29<sup>th</sup> March      Arrival, and transfer to Turri**

Having arrived at lunch time, I collected the mini-bus, did the supermarket picnic shopping, and returned to the airport to meet Gael, Graeme, and Nigel in the early evening. This year the Bumble-bee Orchids in the airport car park, just in front of the mini-bus, were in good numbers. The verge had not yet been mown, and they had survived the weedkiller!

Driving away from the airport at dusk the roadsides were floriferous with common Mediterranean flowers such as Crown Daisies, Galactites, Asphodels, Borage, and Honeywort. Spotless Starlings were much in evidence.

We left the motorway and took a more scenic route along minor country roads, although now in the dark, and continued the journey to our agriturismo. This has been a new base for us on the tour for the last three years and has proved to be a great place to stay. The location is ideal, being perfectly situated for our day trips in all directions to all points of the compass around the island. In quiet countryside, the buildings atop a small hill, the rooms were pleasantly arranged around a lawn, where was a small swimming pool. We quickly settled in, soon enjoying our first dinner, lovingly prepared by the owners, and we looked forward to a fine tour ahead.

#### **Day 2 Saturday 30<sup>th</sup> March      Is Arenas and Cabras area**

Whilst everyone enjoyed breakfast in the hotel I did the picnic shopping for fresh supplies in a small friendly supermarket in one of the nearby villages. Among common birds around the hotel were Spanish Sparrows, Spotless Starlings, Greenfinches, and Goldfinches. Stone Curlew had been calling overnight.

Today we had a remarkably productive visit to the Sinis Peninsula, located in the central west of the island, and we spent the morning exploring the extensive coastal pine woodland at Is Arenas, which we had all to ourselves. The area boasts many orchids. The large numbers of *Gennaria diphylla* here were a feature, many still retaining their characteristic green flowers. This is a rare plant on Sardinia, but certainly not so at this site. Usually at this site are good numbers of Dense-flowered Orchids, here being

white flowered with unspotted leaves, but surprisingly none were in flower this year. We soon located the brown bee orchid *Ophrys subfusca liverani*, a very rare endemic subspecies known only from this site, the type locality. Mirror Orchids, *Ophrys tenthredinifera*, *Ophrys bombyliflora*, and *Orchis papilionacea* were all here too.

Flowering invasive Blue-leaved Wattle is a feature of the site. Plants continued with *Osyris alba* and *Cistus salvifolius*. A great find three years ago had been the endemic *Linaria sardoa*, but in this rather advanced year there was no sign of this tiny yellow toadflax this year, or the similar *Linaria simplex* which grows alongside it. *Thymelaea tartonraira* had a few flowers. Whole areas of the sandy tracks were turned pink by *Silene canescens* and other interesting plants included *Asparagus stipularis* and *Centranthus calcitrapa*. Some robust Southern Polypody grew under a mastic bush.

Legumes were a feature, among them *Lathyrus cicera*, *Lathyrus clymenum*, *Lathyrus setifolius*, and *Lotus cytisoides*. Speckled Wood was the only butterfly under the pines, where there were few birds other than Jay, Blue Tit, Blackcap, and Chaffinch. Among the many snails were *Rumina decollata* with its truncated shell (and young with complete shells), *Vitrina pellucida*, and *Pomatias elegans*.

Next we explored the almost deserted beach and dunes. The latter held a typical flora, with Sea Medick, Cottonweed, Rock Samphire, *Lotus cytisoides*, *Paronychia argentea*, *Ephedra distachya*, *Matthiola sinuata*, and *Ononis variegata* (in leaf). Sardinian Warblers called from dense scrub. The debris of *Posidonia oceanica* was a feature of the beach.

A short stop nearby yielded the hoped for *Aristolochia navicularis*, in fine flower this year.

A large lake (Saline Porcus, interestingly just where a boar had run in front of us last year) supported many, although distant, Greater Flamingos. The halophytic plant community was very interesting. *Melilotus messanensis* was co-dominant and beside the track were many *Triglochin bulbosa*. There were a good number of Barbary Nuts, opening whilst we were here. Red Scarlet Pimpernel was located among the blue form, and here too was the true Blue Pimpernel. *Ophrys eleonorae* was admired. Here I set out our first picnic.

The next site was a beautiful rocky coast boasting a superb flora and sea birds too. The lovely stock *Matthiola tricuspidata* was much in evidence and our visit here kept turning up special plants such as the umbellifer *Daucus gingidium mauritanicus*, very many of the rare *Helianthemum caput-felis* in superb flower, the endemic sea lavender *Limonium acutifolium tenuifolium*, *Brassica tournefortii*, and *Ornithogalum gussonei*. Audouin's Gulls flew along the coast and Small Copper was on the wing. Some ten Common Redstarts were seen in the area.

Next was Seu, at the south of the peninsula. Corsican Dappled White was rather common. *Ophrys phryganae* and *Hedysarum spinosissimum* bloomed, Mastic was dominant, with Rosemary, and *Euphorbia linifolia* in flower. A highlight for me was a few plants of the woody *Viola arborescens* in flower, the first we had ever seen on the tour. Fan-lipped Orchids, an early flowering species, were as usual already over here. *Verbascum creticum* was already in showy flower and indeed we would see this species at a number of sites this year.

We arrived back at the hotel early evening after a superbly productive and enjoyable first full day.

### Day 3 Sunday 31<sup>st</sup> March      Domusnovas, Iglesias, and Cortoghiana

We awoke to fine weather. The day was spent exploring the south-west corner of the island and yielded a wealth of interesting things. About an hour's drive took us to our first stop, initially across agricultural landscapes, giving way to the limestone massifs of the Iglesiente. Impressive Tree Spurge became locally dominant, with Tree Heath, Strawberry Tree, Lavender, and Rosemary featuring, and *Calicotome villosa* colouring the hillsides yellow. Red mats of *Sedum caespitosum* adorned the rocks and there was much *Lathyrus clymenum*. Dead heads of the endemic *Dipsacus ferox* were seen and there were many fine lichens on the rocks. *Serapas lingua* and *Orchis longicornu* were new orchids. Plants continued with *Galium verrucosum* and *Vicia lutea*. A feature of this first stop was Corsican Swallowtail. We were pleased to see one as soon as we stopped, but there were a number here, more than ten, nectaring particularly on Purple Viper's Bugloss, and here associated with the foodplant Giant Fennel. We do not always see this Tyrrhenian endemic on the tour, as it is not always yet on the wing. However we saw it at many sites this year and learnt just how common and widespread it really is. And interestingly we didn't see *machaon* at all this year on Sardinia.

The tarmac gave way to a dirt track where the first stop produced Man Orchid, Sawfly Orchid, and Mirror Orchid. This year there was just one of the very local endemic *Ophrys chestermanni* in flower, and surprisingly the only *Ophrys morisii* of the tour.

Rocks had Rustyback Fern, Southern Polypody, *Asplenium obovatum*, *Asplenium trichomanes* and *Asplenium onopteris*. There were many fine cyclamens, the usual *Anemone hortensis*, and the endemic *Bellium crassifolium* was in leaf. Banks were covered with *Selaginella denticulata*. Attractive *Arabis verna* was in flower, *Orchis ichnusae* was yet another new orchid, and Large Tortoiseshell was on the wing.

We reached the impressive ruins of an abandoned mine system, and Graeme climbed up to investigate. There were several blue-green cupreous rocks on the track and in the stream bed.

Lunch was set out at a flowery spot underneath a viaduct, where *Biscutella morisiana* was in flower and fruit and Holly Blue was on the wing.

A scenic drive took us to a coastal site which afforded fine views of the calm sea and cliffs to the north. The chafer *Oxythyrea funesta* massed on *Cistus salvifolius* flowers. *Centaurea sphaerocephalus* already had flowers and there were *Ophrys incubacea*, *Silene gallica*, and *Halimium halimifolium*. Nearby was a colony of the very local burnet *Zygaena orana* subspecies *sardoa* and impressive *Orobanche gracilis* parasitised the *Genista*.

Next we visited a beautiful small pinewood where the open rocky areas boasted a superb flora. The lily *Simethis mattiazii* was a feature of the site, always a local species, and there were very many here today in excellent flower. There were a few more *Orobanche gracilis* parasitising the shrubby legumes, and very many shoots of Violet Limodore emerged from the forest floor. Some superb *Serapias cordigera* was a highlight, with many *Serapias lingua* too. A pleasing find was the diminutive *Isoetes gymnocarpa* in the

wet flushes. Other small but interesting species were *Linaria pelisseriana*, *Juncus capitatus*, and many *Cicendia filiformis* this year. Weasel's Snout was in flower. The endemics *Genista ephedroides* and *Genista morisii* were both in the area. Green Hairstreak and Clouded Yellow were on the wing. *Linum bienne* and *Tuberaria guttata* continued the variety.

The last stop of the day was to admire a rural traffic island with many *Orchis papilionacea*, as well as *Vicia bithynica* and *Coleostephus myconis*.

We arrived back full of enthusiasm for what had been another fine day. That evening Cinza and Fernando wished for some peace after a busy day serving lunch to a couple of hundred! So Fernando ferried us to a pizzeria in the nearby village. This was an excellent place, the pizzas and wine superb, the owners loquacious and welcoming.

## Day 4 Monday 1<sup>st</sup> April                      Ortuabis

We awoke again to clear blue skies and enjoyed superb weather all day. Not far from the hotel were two Little Owls atop a pile of stones.

We headed north along twisting scenic roads. Climbing above Laconi we approached the limestone at the southern end of the Gennargentu, and already had views of snow on the highest ridges, more than usual this year. The road was as usual very quiet and tranquil, with almost no other vehicles at all. Flowering *Virburnum tinus* prompted the first stop. *Viola alba dehnhardtii* was in flower and a stand of *Petasites pyrenaicus* was in leaf.

Nearing our destination of Ortuabis the roadsides continued floriferous, with *Anemone hortensis* abundant, and *Orchis longicornu* and *Lavandula stoechas* noted from the vehicle. Once on foot we began our exploration of this fine exposed upland site, warm today with fine views in all directions. *Romulea bulbocodium* was abundant here, the flowers mostly closed when we arrived but opening en masse during our visit. The darker *Romulea requienii* was more local but also in fine bloom. Turning to the orchids, the endemic *Orchis ichnusae* was just in flower, and there were several fine Giant Orchids. Our target here however was a special brown bee orchid, the endemic *Ophrys ortuabis*, a relatively recently described species known only from this site. In the end we located a good number of this diminutive species, showing a distinct narrow yellow margin to the labellum, and they were duly photographed. *Ophrys lepida*, with a much wider yellow margin, was another speciality of the area.

There were good numbers of the very attractive yellow flowers of *Anemone palmata* and lovely *Ranunculus gramineus*, superficially similar. The beautiful endemic *Morisia monanthos* was as always a good find, in good bloom this year.

The last highlight here was in the meadow near where we had parked where very many *Narcissus tazetta* were in beautiful bloom.

We drove further through extensive oak woodland and found a finely situated picnic table at which we enjoyed lunch. Before that wet flushes were full of *Romulea requienii* and there was much *Ornithogalum corsicum*. Orange-tip was on the wing.

Our afternoon visit to a nuraghe proved a highlight of the tour. This is a tranquil and usually little visited place, the excavated and partly restored nuraghe providing a fine insight into the little known Stone Age culture that created it. An important reason for visiting this site is the peonies it boasts. As is usual this year they were in fine flower, this the endemic *Paeonia morisii*. Further up the slope we reached the nuraghe itself, a sublime site and much more impressive than some of the much more visited sites on the island. Black Henbane was in impressive flower this year.

Very many Giant Orchids were still in superb bloom, and a fine selection of plants on the structures themselves, such as *Clypeola jonthlaspi*, made this a great site botanically too. *Pancreatium illyricum* was in leaf and the oaks supported some impressive epiphytic *Polypodium australe*. *Lamium bifidum* and *Smyrniium rotundifolium* were here. *Thapsia garganica* was already coming into flower here, and *Scrophularia trifoliata* was in bud, the first time we'd seen this endemic here. Butterflies included Corsican Swallowtail, Cleopatra, Brimstone, Comma, Tyrrhenian Wall Brown, and Dingy Skipper, and there were a number of Large Tortoiseshells. Fruiting Virgin's Bower draped over the trees.

The return drive took us on a pleasant circuitous route.

After dinner we caught up with the plant list.

## **Day 5 Tuesday 2<sup>nd</sup> April                      Cagliari**

First was a supermarket picnic shop. A contrast today as we headed down the autostrada to the environs of the sprawling city of Cagliari. A journey initially through ugly industry took us to a beautiful oasis of salt pans that support very many flamingos, of which we had fine close views. There are many more lagoons around the city that support large numbers of flamingos so the area boasts a very healthy breeding population. Gulls were much in evidence, with the pink hued Slender-billed fine in the sunlight. There were also prosaic Black-headed and of course Yellow-legged too. Unusually there were no terns or waders here this year, only Little Egrets.

The salt marshes had the usual selection of chenopods, parasitised by many of the strange looking *Cynomorium coccineum*. This is a striking plant, very local, but common here. Weasel's Snout was in flower.

Next we negotiated the interesting city of Cagliari, driving along the busy harbour, the district of Marina and the seafront Via Roma. We drove down to Cala Mosca, the headland to the south of the city, and here I set out the lunch. Later we strolled up onto the impressive limestone headland which afforded fine coastal views.

Phoenicean Juniper was an important component of the flora here. The site produced many new plants including *Sarcopoterium spinosum*, *Ononis ornithopodioides*, *Fumana thymifolia*, *Echium parviflorum*, *Thesium*

*humile*, and *Phagnalon saxatile*. There was much *Carrichtera annua* today, a scarce crucifer, this its only station on the island. Towards the top of the slope was fine *Globularia alypum* in flower, but some was already in fruit this year. The impressive grass *Lamarckia aurea* was admired and there were *Linaria reflexa*, *Sideritis romana* and *Linum strictum*. The scarce *Bupleurum trichopodum*, a slender annual, was new for the tour. *Coridothymus capitatus* was already in flower. At the furthest point of the walk I found the diminutive annual *Campanula erinus*. Serins were numerous, Corsican Dappled White was on the wing, and Alpine Swifts sped closely by. *Ophrys sicula* was one of the few orchids seen today, but was new for us. *Matthiola incana* and *Antirrhinum tortuosum* were in flower.

Lastly was a stop at a pharmacy where I found an emergency dental kit for Nigel! As always after a visit to the city it was a particular pleasure to be back in the quietude and rural isolation of the hotel that evening.

## Day 6 Wednesday 3<sup>rd</sup> April      Giara di Gesturi, Furtei, Monte Linas

First we drove up onto the fascinating basalt plateau of the Giara di Gesturi, an imposing presence behind the hotel, with its extensive dwarfed Cork Oak woods, open grassland, and shallow pools (paulis). The area is famous for the cavallini, dwarf horses which roam freely up here. On the ascent we made a short stop at a Domus de Janas, 'a witch's house', another Stone Age structure. Here were Pheasant's-eye and *Cynoglossum creticum* in flower. *Orchis collina*, Fan-lipped Orchid, had gone over. A perched Woodchat Shrike was a bonus.

We drove a dirt road a few kilometres onto the Giara itself, stopping for short explorations of this unusual habitat. *Ranunculus aquatilis* bloomed white in the paulis, and there were also more of both *Romulea bulbocodium* and *Romulea requienii* opening during our stay. We immediately saw a number of close cavallini, those splashing and grazing in the pauli giving the classic photo opportunity of the area.

Dung Beetles worked on the horse and cow dung and we watched several rolling balls across the track. Woodlarks sang their beautiful song, and performed display flights. Tyrrhenian Tree Frogs called and Yellow Flag was in bloom. Lower down was the only *Carthamus caeruleus* of the tour.

Having headed back onto the 'plains', in Barumini we did some quick picnic shopping.

We approached a fine looking limestone slope, covered with scrubby holm oak and olives. A rough track took us higher up onto this maquis covered hillside. Among the Mastic, Mediterranean Buckthorn, and *Phillyrea* maquis were Blue Hound's Tongue, Large Mediterranean Spurge, Shepherd's Needle, and fine *Cyclamen repandum*. The regional endemic *Scrophularia trifoliata* was here, although surprisingly not yet in flower this year. Italian Wall Lizards scuttled over the rocks, Sardinian Warblers were much in evidence, and Green Hairstreak was flying.

Higher up Tree Heath became prominent and the stately grass *Ampelodesmos mauritanicus* was dominant, covering whole slopes. There were *Ophrys incubacea*, *Ophrys eleonora*, some fine *Orchis longicornu*, and Mirror Orchid in bloom. There were a number of *Cytinus ruber* under the cistus. I gathered everyone together to announce some good news and bad news. The good news was that the *Pancratium illyricum*

that I had found atop a boulder a few years ago was already in good flower, but the bad news was that those who wanted to see it closely would have to make their way up to it through dense *Ampelodesmos*. Disc Trefoil was in flower and distinctive fruit on the tracksides. It was time for lunch.

In the afternoon we drove towards Villacidro where we took a beautiful wooded track that took us to the lower slopes of Monte Linas. We parked at the upper car park and set out on foot. This was a fine area, with impressive slopes above us. Large carob trees were in fruit. Ferns were quite a feature, among them Jersey Fern, Maidenhair Spleenwort, *Dryopteris pallida*, and *Asplenium onopteris*. Roman and Membranous Nettle were here, there was impressive Tree Spurge, *Carex remota*, and *Cyclamen repandum* was common. The endemic *Bryonia marmorata* was in flower. Large Tortoiseshell was flying.

We turned our attention to tiny plants, among them *Biscutella morisiana*, *Arabis verna*, and *Teesdalia coronopifolia* in flower and fruit. Lower down were roadsides with much *Serapias lingua*.

## Day 7 Thursday 4<sup>th</sup> April                      South-east, Sarrabus

Today we visited the south-east of the island, a mixture of known sites, and discovering others new to us. Our route took us along beautifully verdant roads, mostly very quiet, on a circuitous route. Various stops yielded many things, at the first being a good number of *Orchis longicornu*, and the moth *Ophiusa tirhaca*.

A minor mountain road took us along very floriferous Mediterranean influenced roadsides. This year the endemic pitch trefoil *Psoralea morisiana* was in full flower (as well as the commoner *Psoralea bituminosa*) and its parasite *Orobanche lavandulacea* was in fine form. *Cheilanthes vellea* grew on sun exposed rocks. Among the many other plants at this site were *Coronilla scorpioides*, Bladder Vetch in flower, and beautiful *Convolvulus siculus*. Blue Rock Thrush sang from the cliffs above us.

Having reached the east coast there was a very interesting dune flora comprising *Corrigiola littoralis*, *Matthiola sinuata*, *Medicago littoralis* and *Medicago marina*, much *Erodium botrys*, and the highlight much *Jasione echinata*. *Biserrula pelecinus* with its distinctive fruits was rather common. *Silene corsica* and Yellow Horned Poppy were already in flower, and *Bunias erucago* also had distinctive fruits. *Valerianella microcarpa* was identified from its fruits.

Heading inland to a more sheltered very flowery spot we set out the lunch. An unexpected trip highlight here was the bird of the tour, Barbary Partridge, two of which suddenly appeared on the track in front of us. We had prolonged views of this special bird, and later from where we had parked had further views. It only occurs here and on Gibraltar in Europe. Among the many plants here were *Vicia dasycarpa*, *Lathyrus angulatus*, *Lathyrus cicera*, *Tuberaria guttata*, and *Jasione montana*. There were many Tassel Hyacinths.

The scenery became ever more interesting as we entered the mountainous Sarrabus region. Dense oak woodland covered large areas of this sparsely populated region. A stop amid fine maquis, the tree heath in abundant bloom, afforded fine views under the cloudless skies. Here, under pines, was white

flowered *Serapias cordigera* and there were spikes of Violet Limodore. Also seen were *Vicia parviflora*, *Vicia lathyroides*, *Trifolium subterraneum*, and *Teline monspessulana*.

We enjoyed our last dinner at the agriturismo, before a last run through the checklists.

## **Day 8 Friday 5<sup>th</sup> April                      Departure, or Journey to Corsica**

Sad farewells to some of the group who were flying home today. The Corsica four set off on the longish drive all the way to the north-east of the island and the ferry terminal at Santa Teresa. Near Villanovaforru were two Little Owls perched on a gate post. We made good progress allowing for short stops once we knew we were near enough to be sure of catching the 1700 ferry. *Hypericum australe* was new for the plant list. We ate lunch at a beautiful coastal spot overlooking the Maddalena archipelago.

We were soon at the ferry terminal. I had booked the tickets online earlier in the week so it only remained to check in at the desk. We were soon aboard. As we left the harbour we had good views of *Pancreatium illyricum* blooming on the coastal rocks. The crossing takes only fifty minutes or so, and allows fine views of many of both Cory's and Yelkouan Shearwaters, and superb views of Bonifacio on the approach to Corsica. The sea was very calm today and the journey very pleasant.

Once ashore on Corsica there followed a short stop in Bonifacio. I then drove through the attractive town, to which we would return later in the week. Some way west we arrived at our hotel.

On Saturday we headed to Ajaccio, via the interesting archaeological site of Filitosa. In the evening I met the arriving group at the airport. There followed a superb tour on the beautiful island of Corsica.



## Systematic List Number 1      Plants

‘Flora dell’Isola di Sardegna’ by Pier Virgilio Arrigoni is the standard work. All six volumes have now been published. A number of other works were used, such as ‘Flora Sarda, Piante Endemiche’ by N.Marras, for the endemics. ‘An Annotated Checklist of the Italian Vascular Flora’ edited by Conti et al, was especially useful as it provides a comprehensive list of all taxa recorded from Sardinia. ‘Alberi e Arbusti Spontanei della Sardegna’ by I.Camarda and F.Valsecchi, 2008 covers the woody species. New species continued to be added to the list in 2019, but species seen previously and not this year are annotated with the year in which they were last recorded.

### ***Selaginellaceae***

<i>Selaginella denticulata</i>	Mediterranean Selaginella	Scattered records, locally very common, e.g. Domusnovas, Furtei, Ortuabis, and the south-east
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### ***Equisetaceae***

<i>Equisetum ramosissimum</i>	a horsetail	Ortuabis 2018
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### ***Isoetaceae***

<i>Isoetes gymnocarpa</i>	Mediterranean Quillwort	Nuraghi Figus
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### ***Pteridophyta***

<i>Adiantum capillus-veneris</i>	Maidenhair Fern	South-east 2018
<i>Anogramma leptophylla</i>	Jersey Fern	Several at M.Linas
<i>Asplenium obovatum</i>	Lanceolate Spleenwort	Scattered records, e.g. Domusnovas, M.Linas, Adoni.
<i>Asplenium onopteris</i>	Acute-leaved Spleenwort	Widespread, e.g. Adoni, Domusnovas
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	Domusnovas area etc.
<i>Athyrium filix-femina</i>	Lady Fern	Nuraghi Adoni 2017
<i>Ceterach officinarum</i>	Rustyback Fern	Scattered records, e.g. Domusnovas area, N.Adoni
<i>Cheilanthes vellea</i>		Found in the south east
<i>Cystopteris fragilis</i>	Brittle Bladder Fern	Scattered records
<i>Dryopteris pallida</i>		M.Linas, Nuraghi Adoni
<i>Polypodium australe</i>	Southern Polypody	Locally common, e.g. Adoni on <i>Quercus</i> , Is Arenas, south-west
<i>Polypodium interjectum</i>	a polypody	Iglesias etc.
<i>Polystichum setiferum</i>	Soft Shield Fern	
<i>Pteridium aquilinum</i>	Bracken	North-east

### ***Pinaceae***

<i>Pinus halepensis</i>	Aleppo Pine	Widespread, dominant at Is Arenas
<i>Pinus nigra</i>	Black Pine	Genna Spina 2018
<i>Pinus pinea</i>	Stone Pine	Roadsides

### ***Cupressaceae***

<i>Juniperus communis</i>	Common Juniper	South-east
<i>Juniperus oxycedrus</i>	Prickly Juniper	Locally common, e.g. Ortuabis, Is Arenas
<i>Juniperus phoenicea</i>	Phoenician Juniper	Cala Mosca, Sinis, and the south-west

### ***Ephedraceae***

<i>Ephedra distachya</i>	a joint pine	Is Arenas and Nuraghi Figus
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### ***Betulaceae***

<i>Alnus glutinosa</i>	Alder	Monte Linas and Ortuabis
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### ***Fagaceae***

<i>Castanea sativa</i>	Sweet Chestnut	Noted in the east 2012
<i>Quercus coccifera</i>	Holly Oak	Widespread
<i>Quercus congesta</i>	an oak	Scattered records. This was the species at Adoni? Treated as <i>Q. pubescens</i> in the flora.
<i>Quercus ilex</i>	Holm Oak	Widespread, locally dominant over large areas
<i>Quercus pubescens</i>	Downy Oak	Scattered records
<i>Quercus suber</i>	Cork Oak	Locally dominant, e.g. Giara di Gesturi, Gennargentu, Furtei, Nuraghe Figus

### ***Rafflesiaceae***

<i>Cytinus clusii</i>	cytinus	Parasitic on <i>Cistus</i> at Furtei, and locally common in south-east. = <i>Cytinus ruber</i> . Not quite in flower this year.
<i>Cytinus hypocistus</i>	cytinus	Giara di Gesturi 2016

### ***Balanophoraceae***

<i>Cynomorium coccineum</i>	Cynomorium	Many locally in salt marshes around Cagliari
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### ***Salicaceae***

<i>Populus alba</i>	White Poplar	Scattered records
<i>Populus canescens</i>	Grey Poplar	
<i>Salix alba</i>	White Willow	
<i>Salix fragilis</i>	Crack Willow	Along watercourses
<i>Salix pedicellata</i>	a willow	South east
<i>Salix purpurea</i>	Purple Willow	

### ***Ulmaceae***

<i>Ulmus minor</i>	Smooth-leaved Elm	Locally common on roadsides
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### ***Moraceae***

<i>Ficus carica</i>	Fig	Widespread and common
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## ***Santalaceae***

<i>Osyris alba</i>	Osyris	Scattered, e.g. Furtei, Is Arenas
<i>Thesium humile</i>	a bastard toadflax	A few at Cala Mosca

## ***Urticaceae***

<i>Parietaria judaica</i>	Pellitory of the Wall	Scattered, e.g. south east
<i>Parietaria lusitanica</i>	a pellitory	Nuraghi Adoni
<i>Parietaria officinalis</i>	Common Pellitory	Treated with <i>P.judaica</i> in the flora
<i>Urtica atrovirens</i>	a nettle	Nuraghi Adoni and M.Linas
<i>Urtica dioica</i>	Stinging Nettle	
<i>Urtica membranacea</i>	Membraneous Nettle	South east etc.
<i>Urtica pilulifera</i>	Roman Nettle	M.Linas
<i>Urtica urens</i>	Annual Nettle	

## ***Aristolochiaceae***

<i>Aristolochia navicularis</i>	a birthwort	Is Arenas, several in flower
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## ***Polygonaceae***

<i>Emex spinosa</i>		Seu and south-east coast 2018
<i>Rumex bucephalophorus</i>	a dock	Cabras area etc. Numerous at Is Arenas. Seu.
<i>Rumex crispus</i>	Curled Dock	Recorded 2019
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Scattered
<i>Rumex pulcher</i>	Fiddle Dock	In leaf M.Linas
<i>Rumex scutatus</i>	French Sorrel	Domusnovas, south east, and locally common north east roadsides
<i>Rumex thyrsoides</i>	a dock	Recorded

## ***Chenopodiaceae***

<i>Anthrocnemum macrostachyum</i>	Perennial Glasswort	Sinis and Cagliari areas
<i>Atriplex halimus</i>	Shrubby Orache	Cagliari area and Sinis
<i>Bassia hirsuta</i>		Cagliari area
<i>Beta maritima</i>	Sea Beet	Sinis and Cagliari areas
<i>Camphorosma monspeliaca</i>		Cagliari area and Sinis
<i>Chenopodium botrys</i>	Sticky Goosefoot	
<i>Chenopodium murale</i>	Nettle-leaved Goosefoot	Recorded 2018
<i>Chenopodium spp.</i>		
<i>Halimione portulacoides</i>	Sea Purslane	Sinis area and Cagliari
<i>Salicornia sp.</i>	Glasswort	Cagliari area and Sinis. <i>S.emerici</i> ?
<i>Sarcocornia fruticosa</i>		Cagliari
<i>Sarcocornia perennis</i>		
<i>Suaeda vera</i>	Shrubby Seablite	Cagliari area

## ***Portulacaceae***

<i>Portulaca oleracea</i>	Purslane	
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## ***Aizoaceae***

*Carpobrotus edulis* Hottentot Fig SW coast and Su Pallosu in flower  
*Mesembryanthemum nodiflorum* In leaf, Cagliari area

## ***Cactaceae***

*Opuntia maxima* a prickly pear

## ***Caryophyllaceae***

*Arenaria leptocladus* Lesser Thyme-leaved Sandwort Sinis 2016  
*Arenaria serpyllifolia* Thyme-leaved Sandwort  
*Cerastium fontanum* Common Mouse-ear Scattered records, locally common  
*Cerastium glomeratum* Sticky Mouse-ear Widespread  
*Corrigiola littoralis* Strapwort East coast sands where locally common  
*Kohlrauschia velutina* Kohlrauschia Scattered records, e.g. Sanluri and south east  
  
*Paronychia argentea* a paronychia Seu, Is Arenas, east coast  
*Paronychia echinulata* a paronychia M.Linas, 2016  
*Petrorhagia nanteuilii* Possibly this species at Nuraghi Figus, 2015  
  
*Polycarpon tetraphyllum* Four-leaved Allseed  
*Sagina apetala* Annual Pearlwort Scattered records  
*Sagina subulata* a pearlwort Seen in the north east by those going to Corsica, 2018  
  
*Scleranthus perennis* Perennial Knawel  
*Silene alba* White Campion Sinis roadsides  
*Silene canescens* a catchfly Locally common as at Is Arenas  
*Silene colorata* a catchfly This species seen? Most referable to *S.canescens*.  
  
*Silene corsica* a catchfly East coast  
*Silene dioica* Red Catchfly Recorded 2016  
*Silene fuscata* a catchfly Around the agriturismo 2018  
*Silene gallica* Small-flowered Catchfly Scattered records  
*Spergula arvensis* Corn Spurrey South-east coast 2018  
*Spergularia marina* Lesser Sand-spurrey Cabras area  
*Spergularia media* Greater Sea-Spurrey South west coast  
*Spergularia rubra* Sand-spurrey Adoni  
*Stellaria media* Chickweed Widespread  
*Stellaria neglecta* Great Chickweed Nuraghi Adoni

## ***Ranunculaceae***

*Adonis annua* Pheasant's-eye Below the Giara di Gesturi  
*Anemone hortensis* an anemone Widespread and locally common  
*Anemone palmata* Yellow Anemone Several at Ortuabis  
*Clematis cirrhosa* Virgin's Bower In leaf at Adoni  
*Clematis flammula* Fragrant Clematis In leaf, e.g. Is Arenas  
*Clematis vitalba* Traveller's Joy In leaf

<i>Nigella damascena</i>	Love-in-a-mist	A few at Cala Mosca
<i>Ranunculus aquatilis</i>	Common Water Crowfoot	Numerous in pools on Giara di Gesturi
<i>Ranunculus</i> sp.	a water crowfoot	Another species in pools on Giara di Gesturi
<i>Ranunculus arvensis</i>	Corn Buttercup	'Traffic island' orchid stop 2017
<i>Ranunculus bullatus</i>	a buttercup	Many in leaf Domusnovas, Ortuabis, and Adoni
<i>Ranunculus cordiger</i> ssp. <i>diffusus</i>	a buttercup	Regional endemic
<i>Ranunculus ficaria</i>	Lesser Celandine	In flower M.Linas
<i>Ranunculus lanuginosus</i>	Woolly Buttercup	<i>Narcissus tazetta</i> site near the agriturismo 2018
<i>Ranunculus gramineus</i>	Grass-leaved Buttercup	Several at Ortuabis in flower
<i>Ranunculus muricatus</i>	a buttercup	M.Linas
<i>Ranunculus ophioglossifolius</i>	Adder's-tongue Spearwort	Giara di Gesturi in leaf
<i>Ranunculus paludosus</i>	Jersey Buttercup	Nuraghi Figus, Giara di Gesturi, south-west, widespread
<i>Ranunculus procerus</i>	a buttercup	This species at Furtei?
<i>Ranunculus repens</i>	Creeping Buttercup	Common in leaf
<i>Ranunculus revelieri</i>	a buttercup	Giara di Gesturi
<i>Ranunculus sardous</i>	Hairy Buttercup	Giara di Gesturi
<i>Ranunculus velutinus</i>		

### ***Paeoniaceae***

<i>Paeonia morisii</i>	a peony	Many in fine flower this year. Endemic. Also seen at Monte Albo when I returned from Corsica, several in fine flower, including white flowered form <i>barbaricina</i> .
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### ***Papaveraceae***

<i>Glaucium corniculatum</i>	Red Horned Poppy	Seu lunch site 2018
<i>Glaucium flavum</i>	Yellow Horned Poppy	One already in flower east coast
<i>Hypecoum procumbens</i>	a hypecoum	Seu 2018
<i>Papaver dubium</i>	Long-headed Poppy	Scattered records
<i>Papaver hybridum</i>	Rough Poppy	Near Villamar
<i>Papaver rhoeas</i>	Common Poppy	Widespread, very variable in size
<i>Papaver setigerum</i>	a poppy	Cagliari salt pans
<i>Roemeria hybrida</i>	Roemeria	1 at first lunch stop, soon losing its petals, 2012. Not in the Flora! Searching the site on each subsequent visit has failed to refind the species.

### ***Fumariaceae***

<i>Fumaria bastardii</i>	Tall Ramping-Fumitory	
<i>Fumaria capreolata</i>	White Ramping-Fumitory	Widespread
<i>Fumaria officinalis</i>	Common Fumitory	
<i>Fumaria parviflora</i>	Small Fumitory	

## ***Cruciferae***

<i>Aethionema saxatile</i>		South west coast 2017
<i>Arabidopsis thaliana</i>	Thale Cress	
<i>Arabis collina</i>	a rockcress	Nuraghi Adoni and Monte Albo 2017
<i>Arabis hirsuta</i>	Hairy Rockcress	Nuraghi Adoni
<i>Arabis verna</i>	Spring Rockcress	Ortuabis area, Adoni, Domusnovas, M.Linas
<i>Biscutella morisiana</i>	Biscutella	M.Linas, Domusnovas, and Monte Albo, in flower and fruit. Endemic. Recorded 2016
<i>Brassica napus</i>	Rape	Sinis coast
<i>Brassica tournefortii</i>	a wild cabbage	South east
<i>Bunias erucago</i>	Bunias	Is Arenas
<i>Cakile maritima</i>	Sea Rocket	Scattered
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Scattered records
<i>Cardamine hirsuta</i>	Hairy Bittercress	Roadsides
<i>Cardaria draba</i>	Hoary Cress	This was the species with pale yellow flowers and distinctive fruits, common at Cala Mosca, its only station in Sardinia.
<i>Carrichtera annua</i>		
<i>Clypeola jonthlaspi</i>	Clypeola	Nuraghi Adoni
<i>Diplotaxis muralis</i>	Annual Wall Rocket	Cala Mosca 2018
<i>Draba muralis</i>	Wall Whitlow Grass	Nuraghi Adoni 2014
<i>Erophila verna</i>	Whitlow Grass	Widespread and locally very common
<i>Eruca sativa</i>	Eruca	Widespread and very common
<i>Hirschfeldia incana</i>	Hoary Mustard	Scattered records
<i>Hornungia petraea</i>	Hutchinsia	Monte Albo
<i>Hymenolobus procumbens</i>	Hymenolobus	Cagliari area 2018
<i>Lepidium graminifolium</i>	Tall Pepperwort	North east
<i>Lobularia maritima</i>	Sweet Alison	Widespread
<i>Malcolmia ramosissima</i>		South east coast
<i>Matthiola incana</i>	Hoary Stock	Cala Mosca
<i>Matthiola sinuata</i>	Sea Stock	Is Arenas in leaf, and east coast sands
<i>Matthiola tricuspidata</i>	Three-horned Stock	In fine flower on Sinis coast
<i>Morisia monanthos</i>		Ortuabis, a few in fine flower. Endemic to Sardinia and Corsica.
<i>Sinapis alba</i>	White Mustard	
<i>Sinapis arvensis</i>	Charlock	Widespread and locally common
<i>Sisymbrium irio</i>	London Rocket	Cala Mosca
<i>Sisymbrium officinale</i>	Hedge Mustard	Burcei
<i>Succowia balearica</i>		East coast
<i>Teesdalia coronopifolia</i>		Many in fruit at M.Linas
<i>Thlaspi perfoliatum</i>	Perfoliate Pennycress	Monte Albo
<b><i>Resedaceae</i></b>		
<i>Reseda alba</i>	White Mignonette	Widespread and common

## ***Crassulaceae***

*Aeonium arboreum*  
*Crassula tillaea*

Naturalised near Sta.Teresa  
Rock ponds at Nuraghi Figus, Seu,  
south-east, agriturismo  
Possibly present too

*Crassula vaillantii*  
*Sedum acre*  
*Sedum caeruleum*

Biting Stonecrop  
a stonecrop

Locally numerous as at Cala Mosca,  
in leaf

*Sedum caespitosum*  
*Sedum dasyphyllum*  
*Sedum sediforme*  
*Sedum stellatum*  
*Umbilicus rupestris*

a stonecrop  
Thick-leaved Stonecrop  
a stonecrop  
Starry Stonecrop  
Navelwort

Numerous in leaf, e.g. south-west  
In leaf  
In leaf, Villasalta and Cala Mosca  
In leaf Adoni etc.  
Widespread and locally common

## ***Saxifragaceae***

*Saxifraga corsica*

Domusnovas, closed, and south-east in  
flower, 2018

*Saxifraga tridactylites*

Rue-leaved Saxifrage

Ortuabis

## ***Rosaceae***

*Aphanes floribunda*  
*Aphanes pusilla*  
*Crataegus monogyna*  
*Potentilla recta*  
*Poterium verrucosum*  
*Prunus spinosa*  
*Pyrus amygdaliformis*  
*Pyrus communis*  
*Rosa pouzinii*  
*Rosa sempervirens*  
*Rosa* spp.  
*Rubus ulmifolius*  
*Sarcopoterium spinosum*

a parsley-piert  
a parsley-piert  
Hawthorn  
Mediterranean Salad Burnet  
Blackthorn  
Almond-leaved Pear  
Cultivated Pear  
rose spp.  
a bramble  
Thorny Burnet

One or both species  
Widespread  
In leaf  
In leaf  
Widespread  
Widespread and common in flower  
Possibly this in fruit Monte Albo  
Identified 2017  
Widespread  
Cala Mosca

## ***Fabaceae***

*Acacia cyanophylla*  
*Acacia melanoxylon*  
*Anagyris foetida*  
*Anthyllis tetraphylla*  
*Anthyllis vulneraria*  
ssp.rubriflora  
*Astragalus boeticus*  
*Astragalus epiglottis*  
*Astragalus hamosus*  
*Biserrula pelecinus*  
*Calicotome villosa*

Blue-leaved Wattle  
Blackwood Acacia  
Bean Trefoil  
Bladder Vetch  
Kidney Vetch  
a milk-vetch  
a milk-vetch  
a milk-vetch  
Hairy Thorny Broom

Widely naturalised, e.g. Is Arenas, where  
Abundant  
Villanovaforru roadsides  
In flower at Villasalta, in leaf Furtei  
Cala Mosca  
Cala Mosca, Ortuabis, south-east etc.  
Seu 2017  
This species at M.Linas, 2019?  
Cagliari airport  
South-east  
Domusnovas area, locally numerous. Also

<i>Ceratonia siliqua</i>	Carob	Sinis.
<i>Cercis siliquastrum</i>	Judas Tree	M.Linas
<i>Coronilla scorpioides</i>	Annual Scorpion Vetch	Planted, much in flower
<i>Coronilla valentina</i>	a scorpion vetch	Villasalta
<i>Cytisus villosus</i>	a broom	Ortuabis area 2015
<i>Dorycnium hirsutum</i>	Dorycnium	Numerous in Domusnovas area
<i>Dorycnium pentaphyllum</i>		Su Pallosu
<i>Genista corsica</i>		Cala Mosca 2018
		Locally numerous, e.g. Nuraghi Figus, near Sanluri
<i>Genista ephedroides</i>	a broom	South west
<i>Genista morisii</i>	a broom	Presumably this endemic seen in the south-west
<i>Hedysarum coronarium</i>	Italian Sainfoin	Locally numerous, abundantly in flower this year
<i>Hedysarum glomeratum</i>	a sainfoin	Scattered, e.g. Seu, Su Pallosu
<i>Hedysarum spinosissimum</i>	Spiny Sainfoin	Cala Mosca, near Furtei, etc.
<i>Hippocrepis ciliata</i>	a horseshoe vetch	Cagliari 2015
<i>Hippocrepis multisiliquosa</i>	a horseshoe vetch	Villasalta
<i>Hippocrepis unisiliquosa</i>	a horseshoe vetch	Furtei, Cala Mosca, agriturismo, south-east
<i>Hymenocarpus circinnatus</i>	Disc Trefoil	Furtei
<i>Lathyrus angulatus</i>	a pea	South east lunch site 2018
<i>Lathyrus aphaca</i>	Yellow Vetchling	South west and Sinis
<i>Lathyrus articulatus</i>	a pea	South west 2018
<i>Lathyrus cicera</i>	a pea	Seu and south east
<i>Lathyrus clymenum</i>	a pea	Widespread and common
<i>Lathyrus ochrus</i>	a pea	Sinis and agriturismo, 2018
<i>Lathyrus setifolius</i>	a pea	Sinis
<i>Lathyrus sphaericus</i>	a pea	
<i>Lathyrus tingitanus</i>	Tangier Pea	Cala Mosca 2014
<i>Lotus angustissimus</i>	a bird's-foot trefoil	Sinis
<i>Lotus conimbricensis</i>	a bird's-foot trefoil	South east, pink flowers, 2007
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Widespread
<i>Lotus cytisoides</i>	a bird's-foot trefoil	Is Arenas, Su Pallosu
<i>Lotus edulis</i>	Edible Lotus	Widespread
<i>Lotus ornithopodioides</i>	a bird's-foot trefoil	Widespread
<i>Lupinus angustifolius</i>	Narrow-leaved Lupin	South west, M.Linas, and south east
<i>Lupinus micranthus</i>	Hairy Lupin	South east
<i>Medicago arabica</i>	Spotted Medick	Scattered e.g. Adoni
<i>Medicago ciliaris</i>	a medick	Cala Mosca
<i>Medicago intertexta</i>	a medick	South west and Day 6
<i>Medicago littoralis</i>	a medick	Sinis coast and east coast
<i>Medicago marina</i>	Sea Medick	Is Arenas and east coast
<i>Medicago minima</i>	Bur Medick	Widespread
<i>Medicago murex</i>	a medick	
<i>Medicago orbicularis</i>	Large Disk Medick	Cagliari area
<i>Medicago polymorpha</i>	Toothed Medick	Widespread



<i>Medicago praecox</i>	a medick	Scattered records
<i>Medicago rigidula</i>	a medick	
<i>Medicago rugosa</i>	a medick	Near the hotel 2012
<i>Medicago truncatula</i>	a medick	
<i>Medicago turbinata</i>	a medick	
<i>Melilotus indicus</i>	Small Melilot	Cala Mosca
<i>Melilotus messanensis</i>	a melilot	Saltmarshes, Putzu Idu
<i>Melilotus sulcatus</i>	a melilot	South-west
<i>Melilotus</i> spp.	melilots	Others unidentified
<i>Ononis diffusa</i>	a rest-harrow	Recorded
<i>Ononis natrix</i>	Large Yellow Rest-harrow	Cala Mosca
<i>Ononis ornithopodioides</i>	Bird's-foot Rest-harrow	Cala Mosca
<i>Ononis variegata</i>	a rest-harrow	Is Arenas, not in flower
<i>Ornithopus compressus</i>	Compressed Bird's-foot	Scattered records
<i>Ornithopus pinnatus</i>	Orange Bird's-foot	Scattered records
<i>Pisum sativum</i>	Wild Pea	South east, near agriturismo, etc.
<i>Psoralea bituminosa</i>	Pitch Trefoil	Cala Mosca, Villasalta
<i>Psoralea morisiana</i>	a pitch trefoil	In flower in the south east. Sardinian endemic.
<i>Robinia pseudacacia</i>	False Acacia	Roadsides
<i>Scorpiurus muricatus</i>	Scorpiurus	Cagliari airport
<i>Spartium junceum</i>	Spanish Broom	Roadsides
<i>Teline monspessulana</i>	Teline	Lower M.Linas, and Burcei
<i>Tetragonolobus purpureus</i>	Asparagus Pea	In flower on one roadside
<i>Trifolium angustifolium</i>	Narrow-leaved Crimson Clover	Sta.Teresa 2017
<i>Trifolium arvense</i>	Hare's-foot Clover	Cagliari
<i>Trifolium campestre</i>	Hop Trefoil	South east
<i>Trifolium cherleri</i>	a clover	Is Arenas
<i>Trifolium fragiferum</i>	Strawberry Clover	
<i>Trifolium glomeratum</i>	Clustered Clover	
<i>Trifolium nigrescens</i>	a clover	Is Arenas, Cagliari
<i>Trifolium repens</i>	White Clover	Scattered
<i>Trifolium resupinatum</i>	Reversed Clover	Recorded
<i>Trifolium scabrum</i>	Rough Clover	Cagliari area etc.
<i>Trifolium stellatum</i>	Star Clover	Cagliari, Sinis, south-east
<i>Trifolium subterraneum</i>	Subterranean Clover	Giara di Gesturi, Burcei, M.Linas
<i>Trifolium tomentosum</i>	Woolly Trefoil	Widespread and locally common
<i>Vicia angustifolia</i>	a vetch	
<i>Vicia benghalensis</i>	a vetch	Seu
<i>Vicia bithynica</i>	Bithynian Vetch	South west
<i>Vicia cracca</i>	Tufted Vetch	
<i>Vicia dasycarpa</i>	a vetch	South east lunch site
<i>Vicia faba</i>	Broad Bean	Locally naturalised, very widely grown
<i>Vicia hirsuta</i>	Hairy Tare	South-east
<i>Vicia hybrida</i>	Hairy Yellow Vetchling	N.Adoni 2017
<i>Vicia lathyroides</i>	Spring Vetch	Is Arenas
<i>Vicia leucantha</i>	a vetch	South east 2018
<i>Vicia lutea</i>	Yellow Vetch	Domusnovas 2018

<i>Vicia parviflora</i>	a vetch	Burcei
<i>Vicia pubescens</i>	a tare	Nuraghi Figus 2017
<i>Vicia sativa</i>	Common Vetch	Widespread
<i>Vicia sepium</i>	Bush Vetch	Scattered records
<i>Vicia villosa</i>	Fodder Vetch	

### ***Oxalidaceae***

<i>Oxalis articulata</i>	Pink Oxalis	Locally naturalized
<i>Oxalis corniculata</i>	Procumbent Yellow Sorrel	
<i>Oxalis pes-caprae</i>	Bermuda Buttercup	Widespread and locally abundant

### ***Geraniaceae***

<i>Erodium botrys</i>	a stork's-bill	East coast sands
<i>Erodium chium</i>	a stork's-bill	South west 2018
<i>Erodium ciconium</i>	a stork's-bill	
<i>Erodium cicutarium</i>	Common Stork's-bill	Widespread and locally common
<i>Erodium malacoides</i>	Mallow-leaved Stork's-bill	Widespread, Cagliari area, Nuraghi Adoni etc.
<i>Erodium maritimum</i>	a stork's-bill	Ortuabis
<i>Erodium moschatum</i>	Musk Stork's-bill	Cagliari
<i>Geranium columbinum</i>	Long-stalked Crane's-bill	M.Linas 2018
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	
<i>Geranium lucidum</i>	Shining Cranesbill	Nuraghi Adoni, Domusnovas, etc.
<i>Geranium molle</i>	Dovesfoot Cranesbill	Widespread
<i>Geranium purpureum</i>	Little Robin	Scattered records
<i>Geranium robertianum</i>	Herb Robert	Is Arenas
<i>Geranium rotundifolium</i>	Round-leaved Cranesbill	

### ***Linaceae***

<i>Linum bienne</i>	Pale Flax	Nuraghi Figus, Domasnovas
<i>Linum strictum</i>	a flax	Cala Mosca
<i>Linum trigynum</i>	a flax	Cala Mosca 2017
<i>Radiola linoides</i>	Allseed	Nuraghi Figus 2018

### ***Euphorbiaceae***

<i>Euphorbia characias</i>	Large Mediterranean Spurge	Locally common, e.g. Nuraghi Figus, Domusnovas
<i>Euphorbia cupanii</i>	a spurge	In leaf
<i>Euphorbia dendroides</i>	Tree Spurge	Linas etc., fine at Domusnovas, Cala Mosca, locally common
<i>Euphorbia exigua</i>	Dwarf Spurge	Many at Is Arenas
<i>Euphorbia helioscopia</i>	Sun Spurge	Widespread and common
<i>Euphorbia linifolia</i>	a spurge	Seu etc.
<i>Euphorbia paralias</i>	Sea Spurge	Is Arenas
<i>Euphorbia peplus</i>	Petty Spurge	Widespread
<i>Euphorbia pithyusa</i>	a spurge	Coastal
<i>Euphorbia semiperfoliata</i>	a spurge	Ortuabis in leaf

<i>Euphorbia spinosa</i>	Spiny Spurge	Ortuabis, in flower
<i>Euphorbia terracina</i>	a spurge	Seu
<i>Mercurialis annua</i>	Annual Mercury	
<i>Ricinus communis</i>	Castor Oil Plant	Roadsides
<b><i>Rutaceae</i></b>		
<i>Ruta chalepensis</i>	Fringed Rue	Scattered, e.g. Seu, Cala Mosca
<b><i>Polygalaceae</i></b>		
<i>Polygala sardoa</i>	Sardinian Milkwort	Ortuabis and N.Adoni 2017
<i>Polygala</i> sp.	a milkwort	Cala Mosca 2014
<b><i>Anacardiaceae</i></b>		
<i>Pistacia lentiscus</i>	Mastic Tree	Locally abundant
<b><i>Rhamnaceae</i></b>		
<i>Rhamnus alaternus</i>	Mediterranean Buckthorn	Scattered records, in fruit
<i>Rhamnus oleoides</i>		South-west and Sinis
<b><i>Malvaceae</i></b>		
<i>Lavatera arborea</i>	Tree Mallow	Scattered records in flower
<i>Lavatera cretica</i>	Cretan Mallow	Roadsides
<i>Lavatera olbia</i>	a mallow	In leaf
<i>Lavatera triloba</i>	a mallow	Probably this species Cagliari salt pans 2018
<i>Malva cretica</i>	a mallow	Cala Mosca 2017
<i>Malva neglecta</i>	Dwarf Mallow	Cagliari area
<i>Malva nicaeensis</i>		
<i>Malva parviflora</i>	Least Mallow	Cala Mosca
<i>Malva sylvestris</i>	Common Mallow	Scattered
<b><i>Thymelaeaceae</i></b>		
<i>Daphne gnidium</i>		In leaf at various sites
<i>Thymelaea hirsuta</i>		Scattered, e.g. Putzu Idu, Seu, Is Arenas, Furtei, and Cagliari
<i>Thymelaea tartonraira</i>		1 plant only at Is Arenas
<b><i>Violaceae</i></b>		
<i>Viola arborescens</i>	Shrubby Violet	In flower at Seu, a fine addition to the list, 2019, some ten plants
<i>Viola dehnhardtii</i>		Ortuabis and Laconi area ( <i>Viola alba</i> ssp. <i>dehnhardtii</i> )
<b><i>Guttiferae</i></b>		
<i>Hypericum australe</i>	a St.John's-wort	In flower, north-east, 2019
<i>Hypericum perfoliatum</i>	a St.John's-wort	In leaf, Furtei

<i>Hypericum tomentosum</i>	a St.John's-wort	In leaf Ortuabis
<i>Hypericum veronense</i>	a St.John's-wort	In leaf
<b><i>Cistaceae</i></b>		
<i>Cistus albidus</i>	Grey-leaved Cistus	In flower in the north east
<i>Cistus creticus</i>	a cistus	Cagliari area, Sinis, Furtei, south west, and south east, a few in flower
<i>Cistus monspeliensis</i>	Narrow-leaved Cistus	Scattered in flower, locally common
<i>Cistus salvifolius</i>	Sage-leaved Cistus	Locally common, e.g. Sinis, M.Linas, south west, and south east
<i>Fumana thymiifolia</i>	Thyme-leaved Fumana	Cala Mosca. Su Pallosu species?
<i>Halimium halimifolium</i>		Nuraghi Figus, Cala Mosca, south west, in leaf
<i>Helianthemum caput-felis</i>	Cat's-head Rockrose	Sinis coast, very many in superb flower
<i>Helianthemum croceum</i>	a rockrose	Monte Albo 2017
<i>Helianthemum morisianum</i>	a rockrose	In flower Nuraghe Adoni 2017. Pink flowers. Endemic to central Sardinia.
<i>Helianthemum salicifolium</i>	Willow-leaved Rockrose	Cala Mosca
<i>Tuberaria guttata</i>	Spotted Rockrose	Monte Linas and south east
<b><i>Tamaricaceae</i></b>		
<i>Tamarix</i> spp.	a tamarisk	2 species near Cagliari. 2 species Sinis. Another on motorway verges. 11 species occur.
<b><i>Frankeniaceae</i></b>		
<i>Frankenia laevis</i>	Sea Heath	In leaf Cagliari
<i>Frankenia pulverulenta</i>	a sea-heath	Cagliari 2007
<b><i>Cucurbitaceae</i></b>		
<i>Bryonia marmorata</i>	a white bryony	M.Linas. Endemic to Sardinia and Corsica.
<b><i>Lythraceae</i></b>		
<i>Lythrum hyssopifolia</i>	Grass-poly	N.Figus 2017
<b><i>Myrtaceae</i></b>		
<i>Eucalyptus camaldulensis</i>	River Red Gum	Abundantly planted
<i>Myrtus communis</i>	Common Myrtle	South west
<b><i>Araliaceae</i></b>		
<i>Hedera helix</i>	Ivy	Laconi to Ortuabis
<b><i>Apiaceae</i></b>		
<i>Ammoides pusilla</i>		Arable weed around the agriturismo 2018

<i>Apium graveolens</i>	Wild Celery	Leaves, south east streamside, 2018
<i>Apium nodiflorum</i>	Fool's Water-cress	
<i>Bupleurum fruticosum</i>	Shrubby Hare's-ear	Roadsides 2015
<i>Bupleurum trichopodium</i>	a Hare's-ear	Several at Cala Mosca 2019. A scarce species.
<i>Conium maculatum</i>	Hemlock	Cagliari area 2007
<i>Crithmum maritimum</i>	Rock Samphire	Is Arenas
<i>Daucus carota</i>	Wild Carrot	Locally in flower, e.g. Seu, very large umbels
<i>Daucus gingidium</i>	a carrot	Sinis Coast
ssp.mauritanicus		
<i>Daucus maximus</i>	a carrot	Scattered records
<i>Eryngium campestre</i>	Field Eryngo	In leaf
<i>Eryngium maritimum</i>	Sea Holly	Is Arenas, in leaf
<i>Eryngium tricuspdatum</i>	an eryngo	In leaf, Furtei
<i>Ferula communis</i>	Giant Fennel	Widespread and locally common
<i>Foeniculum vulgare</i>	Fennel	Sinis
<i>Magyaris pastinacea</i>		The large leaves of this species were only seen at M.Linas this year
<i>Oenanthe</i> sp.		
<i>Ridolfia segetum</i>		Cala Mosca 2013
<i>Scandix australis</i>	a shepherd's-needle	Cala Mosca 2018
<i>Scandix pecten-veneris</i>	Shepherd's-needle	Scattered records
<i>Smyrniium olusatrum</i>	Alexanders	Widespread
<i>Smyrniium rotundifolium</i>	an alexanders	Nuraghi Adoni, and Monte Albo
<i>Thapsia garganica</i>		Common in leaf, e.g. Cala Mosca. Already in flower Nuraghi Adoni.
<i>Tordylium apulum</i>	Tordylium	Cala Mosca 2018
<i>Torilis nodosa</i>	Knotted Hedge-parsley	Cala Mosca
<b><i>Ericaceae</i></b>		
<i>Arbutus unedo</i>	Strawberry Tree	South-west, south-east, etc.
<i>Erica arborea</i>	Tree Heath	Locally common, e.g. Furtei, Domusnovas, Burcei
<i>Erica scoparia</i>	Besom Heath	Nuraghi Figus
<b><i>Primulaceae</i></b>		
<i>Anagallis arvensis</i>	Scarlet Pimpernel	Widespread and common, mostly blue flowered
<i>Anagallis foemina</i>	a pimpernel	Sinis lunch site
<i>Asterolinon linum-stellatum</i>		Many fewer than usual
<i>Cyclamen repandum</i>	Spring Sowbread	Locally numerous, e.g. Domusnovas
<b><i>Plumbaginaceae</i></b>		
<i>Armeria sardoa</i>		This endemic was seen in the south east 2007
<i>Limonium acutifolium</i>	a sea lavender	Sinis Peninsula in leaf

<i>ssp.tenuifolium</i>		
<i>Limonium glomeratum</i>	a sea lavender	In leaf Putzu Idu
<i>Limonium narbonense</i>	a sea lavender	In leaf Putzu Idu
<i>Limonium spp.</i>	sea lavender spp.	Another 2 species Cagliari area 34 species occur on Sardinia, many of them endemic.

### ***Oleaceae***

<i>Olea europaea</i>	Olive	Widespread
<i>Phillyrea angustifolia</i>		Widespread
<i>Phillyrea latifolia</i>		M.Linas and Domusnovas

### ***Apocynaceae***

<i>Vinca sardoa</i>	Sardinian Periwinkle	Roadsides in north west, on drive to Sta.Teresa.
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### ***Gentianaceae***

<i>Blackstonia perfoliata</i>	Yellow-wort	A few records
<i>Centaurium erythraea</i>	Common Centaury	Cala Mosca
<i>Centaurium maritimum</i>		Several at Nuraghi Figus
<i>Cicendia filiformis</i>	Yellow Centaury	Common at Nuraghi Figus

### ***Rubiaceae***

<i>Galium aparine</i>	Cleavers	
<i>Galium parisiense</i>	Wall Bedstraw	Scattered records
<i>Galium setaceum</i>		Growing on the Nuraghe Su Nuraxi. Purple flowers. 2007.
<i>Galium spurium</i>	False Cleavers	
<i>Galium verrucosum</i>		Widespread and locally common
<i>Rubia peregrina</i>	Wild Madder	Locally very common
<i>Sherardia arvensis</i>	Sherardia	Widespread and very common
<i>Valantia muralis</i>		Is Arenas, Cala Mosca, locally very common

### ***Theligoniaceae***

<i>Theligonium cynocrambe</i>		Widespread, e.g. Ortuabis, south west, Is Arenas
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### ***Convolvulaceae***

<i>Convolvulus siculus</i>	Small Blue Convolvulus	Villasalta
<i>Convolvulus elegantissimus</i>		Sinis
<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed	Villasalta etc.
<i>Cuscuta epithimum</i>	Common Dodder	East coast and Cala Mosca

### ***Boraginaceae***

<i>Borago officinalis</i>	Borage	Widespread and common
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<i>Cerintho major</i>	Honeywort	Widespread and abundant
<i>Cynoglossum creticum</i>	Blue Hound's-tongue	Scattered records, e.g. Seu
<i>Echium creticum</i>	a bugloss	South-east etc.
<i>Echium italicum</i>	Pyramidal Bugloss	Previous year's spikes
<i>Echium parviflorum</i>	Small-flowered Bugloss	Cala Mosca and Villasalta ( <i>Echium calycinum</i> )
<i>Echium plantagineum</i>	Purple Viper's-Bugloss	Widespread and very common
<i>Myosotis arvensis</i>	Field Forget-me-not	Cabras area 2014
<i>Myosotis discolor</i>	Changing Forget-me-not	Is Arenas
<i>Myosotis ramosissima</i>	Early Forget-me-not	
Probably also present were <i>Myosotis pusilla</i> and <i>Myosotis sicula</i>		
<i>Neatostema apulum</i>	Yellow Gromwell	Cala Mosca, 1 plant, 2017

### ***Callitrichaceae***

<i>Callitriche</i> sp.	water-starwort sp.	Ponds on Giara di Gesturi, and near Adoni. <i>C.truncata</i> ?
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### ***Lamiaceae***

<i>Ballota nigra</i>	Black Horehound	
<i>Corydanthus capitatus</i>	a thyme	Already in flower at Cala Mosca
<i>Lamium amplexicaule</i>	Henbit Deadnettle	Around the agriturismo
<i>Lamium bifidum</i>	a deadnettle	Nuraghi Adoni, Ortuabis
<i>Lavandula stoechas</i>	French Lavender	Locally common
<i>Marrubium vulgare</i>	White Horehound	Recorded
<i>Mentha aquatica</i>	Water Mint	In leaf
<i>Micromeria cordata</i>	a micromeria	Possibly this species in leaf at Ortuabis
<i>Micromeria graeca</i>	a micromeria	
<i>Prasium majus</i>	Prasium	Widespread
<i>Rosmarinus officinalis</i>	Rosemary	Locally numerous in flower
<i>Salvia clandestina</i>	a clary	Probably present as well as the following species
<i>Salvia verbenaca</i>	Wild Clary	Widespread
<i>Satureja cuneifolia</i>	a savory	Probably this species Cagliari area
<i>Sideritis romana</i>	a sideritis	Cala Mosca
<i>Stachys arvensis</i>	Field Woundwort	M.Linas 2018
<i>Stachys corsica</i>	a woundwort	In leaf Monte Albo 2018
<i>Stachys glutinosa</i>	a woundwort	This endemic shrub was only seen from the vehicle this year, south east
<i>Teucrium marum</i>	a germander	In leaf, e.g. Ortuabis
<i>Teucrium polium</i>	Felty Germander	In leaf, e.g. Ortuabis
<i>Thymus catharinae</i>	thyme sp.	In leaf at Ortuabis

### ***Solanaceae***

<i>Datura stramonium</i>	Thornapple	Cagliari 2012
<i>Hyoscyamus albus</i>	White Henbane	Tharros church 2014
<i>Hyoscyamus niger</i>	Black Henbane	In fine flower at Nuraghi Adoni

<i>Solanum nigrum</i>	Black Nightshade	Cagliari
<b><i>Scrophulariaceae</i></b>		
<i>Antirrhinum tortuosum</i>	Snapdragon	In flower Cala Mosca
<i>Antirrhinum siculum</i>	Sicilian Snapdragon	Monastir roadsides
<i>Bellardia trixago</i>	Bellardia	Sinis lunch site
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Domusnovas area 2014
<i>Linaria pelisseriana</i>	Jersey Toadflax	Only 1 at N.Figus this year
<i>Linaria reflexa</i>	a toadflax	Cala Mosca
<i>Linaria sardoia</i>	a toadflax	Is Arenas, a few plants at what seems to be a new site for this regional endemic, seen in 2015 and 2016 (2 plants), and 2017 (1 plant). 2018 some 20 plants, growing with the following species. Also seen south-east coast 2018. Not seen 2019.
<i>Linaria simplex</i>	a toadflax	Is Arenas, growing with the previous species, 2018. Not seen 2019.
<i>Linaria triphylla</i>	Three-leaved Toadflax	Around the agriturismo 2018
<i>Misopates orontium</i>	Weasel's Snout	Scattered records
<i>Parentucellia latifolia</i>	Southern Red Bartsia	Widespread
<i>Parentucellia viscosa</i>	Yellow Bartsia	Scattered records
<i>Scrophularia peregrina</i>	Nettle-leaved Figwort	M.Linas and N.Adoni
<i>Scrophularia trifoliata</i>	a figwort	One plant at Furtei, and one at Adoni, in bud this year. Tyrrhenian endemic.
<i>Verbascum conocarpum</i>	a mullein	This species in leaf, e.g. Adoni
<i>Verbascum creticum</i>	a mullein	Locally numerous in flower this year
<i>Verbascum sinuatum</i>	a mullein	In leaf
<i>Veronica arvensis</i>	Wall Speedwell	Furtei, Giara di Gesturi
<i>Veronica beccabunga</i>	Brooklime	In leaf
<i>Veronica cymbalaria</i>	White Speedwell	Nuraghi Adoni, Is Arenas, etc.
<b><i>Orobanchaceae</i></b>		
<i>Orobanche gracilis</i>	Slender Broomrape	Nuraghi Figus, and south-west coast
<i>Orobanche hederæ</i>	Ivy Broomrape	Near Adoni 2013
<i>Orobanche lavandulæcea</i>	a broomrape	Parasitic on <i>Psoralea morisiana</i> in the south-east, several fine spikes.
<i>Orobanche minor</i>	Common Broomrape	Monte Linas
<i>Orobanche nana</i>	a branched broomrape	
<i>Orobanche picridis</i>	Oxtongue Broomrape	South west
<i>Orobanche ramosa</i>	Branched Broomrape	Widespread and locally numerous
<b><i>Myoporaceae</i></b>		
<i>Myoporum laetum</i>	Ngaio	Naturalised, Sinis and Cagliari
<b><i>Globulariaceae</i></b>		
<i>Globularia alypum</i>	Shrubby Globularia	Cala Mosca, several in flower,



others in fruit this year

### ***Plantaginaceae***

<i>Plantago afra</i>	a plantain	Widespread and locally numerous
<i>Plantago albicans</i>	Silvery Plantain	Nuraghi Figus 2018?
<i>Plantago bellardii</i>	a plantain	Locally very common near Nuraghi Figus, Cagliari etc.
<i>Plantago commutata</i>	a plantain	Su Pallosu
<i>Plantago coronopus</i>	Buck's-horn Plantain	Widespread var. <i>coronopus</i> and var. <i>ceratophylla</i>
<i>Plantago crassifolia</i>	a plantain	Putzu Idu, Cagliari
<i>Plantago lagopus</i>	a plantain	Domusnovas, Putzu Idu
<i>Plantago lanceolata</i>	Ribwort Plantain	Scattered
<i>Plantago macrorrhiza</i>	a plantain	
<i>Plantago major</i>	Greater Plantain	South west
<i>Plantago serraria</i>	a plantain	
<i>Plantago weldenii</i>	a plantain	Sinis

### ***Acanthaceae***

<i>Acanthus mollis</i>	Bear's Breech	Cabras area 2007
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### ***Caprifoliaceae***

<i>Lonicera implexa</i>	a honeysuckle	In flower
<i>Sambucus nigra</i>	Elder	3 plants in the south east
<i>Viburnum tinus</i>	Laurustinus	In fine flower on roadsides in Laconi area

### ***Valerianaceae***

<i>Centranthus calcitrapa</i>		Is Arenas, Cagliari, south west
<i>Valerianella microcarpa</i>	a corn salad	South east coast, in fruit
<i>Valerianella</i> spp.	Corn Salads	Others unidentified. 9 species occur.

### ***Dipsacaceae***

<i>Dipsacus ferox</i>	a teasel	Scattered records of dead heads, e.g. Domusnovas
<i>Dipsacus valsecchiae</i>	a teasel	Last years fruiting heads at Ortuabis and Adoni
<i>Sixalix atropurpurea</i>		In flower at various sites

### ***Campanulaceae***

<i>Campanula erinus</i>		1 at Cala Mosca
<i>Legousia hybrida</i>	Venus's Looking Glass	Noted on one day in 2007!
<i>Jasione echinata</i>	a sheep's-bit	East coast sands, several in flower
<i>Jasione montana</i>	Sheep's-bit	South-east lunch site

### ***Asteraceae***

<i>Achillea ligustica</i>	a yarrow	In leaf
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<i>Anacyclus clavatus</i>	Anacyclus	
<i>Andryala integrifolia</i>		In flower, east coast etc.
<i>Anthemis arvensis</i>	Corn Chamomile	Scattered, e.g. Is Arenas
<i>Anthemis cotula</i>	Stinking Chamomile	Near the hotel, locally very common
<i>Anthemis maritima</i>		Is Arenas
<i>Artemisia arborescens</i>		Widespread and locally numerous
<i>Aster tripolium</i>	Sea Aster	Saltmarshes around Cagliari in leaf
<i>Atractylis cancellata</i>		Last years flowering heads at Cala Mosca
<i>Bellis annua</i>	Annual Daisy	Widespread and locally common
<i>Bellis perennis</i>	Daisy	
<i>Bellis sylvestris</i>	Southern Daisy	M.Linas and Domusnovas, etc.
<i>Bellium bellidioides</i>		Sinis, Ortuabis, etc. Regional endemic.
<i>Bellium crassifolium</i>	a daisy	Many in leaf at Domusnovas. Endemic.
<i>Calendula arvensis</i>	Corn Marigold	Locally very common ( <i>Calendula tripterocarpa</i> ) Cagliari, locally very common
<i>Carduus pycnocephalus</i>		
<i>Carlina corymbosa</i>	Flat-topped Carlina Thistle	Old fruiting heads
<i>Carlina lanata</i>	Purple Carlina Thistle	Old fruiting heads
<i>Carlina racemosa</i>	a carline thistle	Old fruiting heads
<i>Carthamus caeruleus</i>		Below Giara di Gesturi, in flower
<i>Centaurea calcitrapa</i>	Red Star Thistle	In bud Giara di Gesturi
<i>Centaurea napifolia</i>		South west 2017
<i>Centaurea pullata</i>	a knapweed	A plant in fine flower, Cagliari area, 2015, adventive
<i>Centaurea sphaerocephala</i>	a knapweed	Iglesias coast, in flower
<i>Chamaemelum fuscatum</i>		e.g. Is Arenas
<i>Chamaemelum mixtum</i>		Numerous on Giara di Gesturi, and Adoni
<i>Chrysanthemum coronarium</i>	Crown Daisy	Widespread and abundant
<i>Chrysanthemum segetum</i>	Corn Daisy	Scattered records
<i>Coleostephus myconis</i>		South-west
<i>Crepis bellidifolia</i>		
<i>Crepis leontodontoides</i>		
<i>Crepis vesicaria</i>		Widespread and common
<i>Crepis spp.</i>		Other species not identified
<i>Crupina crupinastrum</i>		In leaf Burcei 2018
<i>Cynara cardunculus</i>	Cardoon	Common in leaf
<i>Dittrichia graveolens</i>	Stink Aster	
<i>Dittrichia viscosa</i>	a stink aster	Widespread and locally common
<i>Erigeron sumatrensis</i>		Domusnovas 2016
<i>Evax pygmaea</i>	Evax	Cagliari area, Is Arenas, Furtei, etc.
<i>Filago gallica</i>	Narrow-leaved Cudweed	Nuraghi Figus, Cala Mosca
<i>Galactites tomentosa</i>	Galactites	Widespread and locally abundant
<i>Hedypnois rhagadioloides</i>		Scattered records
<i>Helichrysum italicum microphyllum</i>		Sinis coast etc., locally common
<i>Hyoseris radiata</i>	Hyoseris	Scattered records
<i>Hypochoeris achyrophorus</i>	Mediterranean Cat's-ear	Widespread, e.g. N.Adoni

<i>Hypochoeris radicata</i>	Cat's-ear	
<i>Inula conyza</i>	Ploughman's Spikenard	In leaf
<i>Inula crithmoides</i>	Golden Samphire	In leaf
<i>Onopordum illyricum</i>	Illyrian Scotch Thistle	In leaf at Adoni etc.
<i>Otanthus maritimus</i>	Cottonweed	Is Arenas in leaf, and Seu
<i>Pallenis spinosa</i>	Pallenis	Cala Mosca
<i>Petasites pyrenaicus</i>	a butterbur	Ortuabis, in leaf
<i>Phagnalon rupestre</i>		Sinis and south west
<i>Phagnalon saxatile</i>		Cala Mosca, Domusnovas, and south-east
<i>Picnomon acarna</i>	Picnomon	In leaf
<i>Picris echioides</i>	Bristly Oxtongue	Abundant
<i>Ptilostemon casabonae</i>		The distinctive leaves of this species were noted at various sites, e.g. Domusnovas and Adoni Sinis etc.
<i>Reichardia picroides</i>		
<i>Rhagadiolus stellatus</i>		
<i>Santolina corsica</i>	a lavender cotton	In bud Monte Albo, 2018, its only site on Sardinia. Endemic shared with Corsica.
<i>Santolina insularis</i>	a lavender cotton	In leaf at Ortuabis and the south-west. Endemic.
<i>Scolymus grandiflorus</i>		Cagliari area 2014
<i>Senecio delphinifolius</i>		This species in the south east?
<i>Senecio erraticus</i>		Cagliari salt pans
<i>Senecio lividus</i>		Widespread
<i>Senecio leucanthemifolius</i>		Is Arenas and Seu
<i>Senecio vulgaris</i>	Groundsel	Widespread
<i>Silybum marianum</i>	Milk Thistle	Widespread
<i>Sonchus asper</i>	Prickly Sow-thistle	Scattered
<i>Sonchus bulbosus</i>		Is Arenas
<i>Sonchus oleraceus</i>	Smooth Sow-Thistle	Scattered
<i>Sonchus tenerrimus</i>	a sow-thistle	Scattered
<i>Taraxacum officinale</i>	Dandelion	
<i>Taraxacum spp.</i>	dandelions	Others unidentified
<i>Tolpis umbellata</i>		
<i>Urospermum dalechampii</i>		Widespread
<i>Urospermum picroides</i>		Scattered records, e.g. Cala Mosca, Seu

## ***Monocotyledons***

### ***Lemnaceae***

*Lemna minor* Common Duckweed

### ***Posidoniaceae***

*Posidonia oceanica* Abundant debris on coasts

## ***Juncaginaceae***

*Triglochin bulbosa* ssp. *barrelieri* Bulbous Arrow-grass Common in salt marshes Putzu Idu

## ***Potamogetonaceae***

*Potamogeton pusillus* Lesser Pondweed Giara di Gesturi 2018

## ***Liliaceae***

*Allium commutatatum* a garlic In bud south east 2015  
*Allium roseum* Rosy Garlic Putzu Idu and Iglesias coast  
*Allium neapolitanum* Naples Garlic Noted on day 2 2013  
*Allium subhirsutum* Cala Mosca  
*Allium triquetrum* Three-cornered Leek Widespread and locally common  
*Asparagus acutifolius* Widespread  
*Asparagus albus* Cala Mosca, and south west  
*Asparagus stipularis* Is Arenas and east coast  
*Asphodelus fistulosus* Hollow-stemmed Asphodel South east and Cagliari  
*Asphodelus microcarpus* Common Asphodel Widespread and abundant  
*Brimeura fastigiata* 1 M.Linas, 2016  
*Gagea foliosa* In flower at Adoni 2018  
*Gagea granatellii* In flower at Ortuabis 2018  
*Muscari comosum* Tassel Hyacinth Scattered records, e.g. near Furtei, Seu, south-east  
*Ornithogalum corsicum* Common at Adoni, scattered other records  
*Ornithogalum gussonei* Sinis coast  
*Ruscus aculeatus* Butcher's Broom N.Adoni, Domusnovas, Ortuabis  
*Simethis mattiazii* Kerry Lily A fine colony in Cortoghiana Pinewoods, very many plants  
*Smilax aspera* Smilax Widespread and locally abundant  
*Urginea maritima* Sea Squill Locally common in leaf (*Drimia pancratiion*)

## ***Agavaceae***

*Agave americana* Century Plant Naturalised, Sinis , south west

## ***Amaryllidaceae***

*Leucojum aestivum* ssp. *pulchellum* Summer Snowflake Many fine examples in Ogliastro 2012  
*Narcissus tazetta* Polyanthus Narcissus Still in fine flower at Ortuabis, and near Villanovaforru  
*Pancratium illyricum* Illyrian Sea Daffodil In flower at Furtei, leaves at N.Adoni, and many in flower at Sta.Teresa  
*Pancratium maritimum* Sea Daffodil Leaves at Is Arenas and on other coasts

## ***Dioscoraceae***

*Tamus communis* Black Bryony Scattered

## ***Iridaceae***

<i>Gladiolus communis</i>	a gladiolus	Common on a roadside near Sanluri 2014. One from vehicle on roadside in south-east, this species?
<i>Gladiolus italicus</i>	Field Gladiolus	Noted on one day 2012
<i>Gladiolus</i> sp.	gladiolus sp.	In leaf near the agriturismo 2017
<i>Iris germanica</i>	Tall Bearded Iris	Scattered, naturalised
<i>Iris germanica</i> ssp.florentina		Scattered, naturalised
<i>Iris planifolia</i>		In seed at Cala Mosca
<i>Iris pseudacorus</i>	Yellow Flag	In flower Giara di Gesturi
<i>Gynandiris sisyrinchium</i>	Barbary Nut	Sinis etc.
<i>Romulea bulbocodium</i>		Locally abundant, Giara di Gesturi, Ortuabis, etc.
<i>Romulea columnae</i>		
<i>Romulea ligustica</i>		North-east 2018
<i>Romulea ramiflora</i>		
<i>Romulea requienii</i>		Ortuabis, Su Pallosu coast, many at Adoni
<i>Romulea rollii</i>		Coastal

## ***Palmae***

<i>Chamaerops humilis</i>	Dwarf Fan Palm	Seu
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## ***Araceae***

<i>Arisarum vulgare</i>	Friar's Cowl	Widespread
<i>Arum italicum</i>	Large Cuckoo Pint	In leaf M.Linas
<i>Arum pictum</i>	Autumn Arum	Leaves at Adoni and M.Linas

## ***Juncaceae***

<i>Juncus acutus</i>	Sharp Rush	Cagliari
<i>Juncus articulatus</i>	Jointed Rush	
<i>Juncus bufonius</i>	Toad Rush	Nuraghi Figus 2018
<i>Juncus capitatus</i>	Dwarf Rush	Nuraghi Figus 2018
<i>Juncus inflexus</i>	Hard Rush	Near Sanluri 2017
<i>Juncus maritimus</i>	Sea Rush	Sinis
<i>Juncus pygmaeus</i>	Pigmy Rush	Nuraghi Figus
<i>Juncus tenuis</i>	Slender Rush	Nuraghi Figus
<i>Luzula forsteri</i>	Southern Wood-rush	Ortuabis etc.

## ***Cyperaceae***

<i>Carex caryophyllea</i>	Spring Sedge	
<i>Carex distachya</i>	a sedge	Scattered records , e.g. Domusnovas and north-east
<i>Carex divisa</i>	Divided Sedge	<i>Narcissus tazetta</i> site near the Agriturismo, and M.Linas, 2018
<i>Carex flacca</i>	Glaucous Sedge	Widespread
<i>Carex pendula</i>	Pendulous Sedge	Ortuabis

<i>Carex remota</i>	Remote Sedge	M.Linas
<i>Carex sylvatica</i>	Wood Sedge	
<i>Isolepis cernua</i>	Slender Club-rush	Near Sanluri, 2017
<i>Isolepis setacea</i>	Bristle Club-rush	Nuraghi Figus 2017
<i>Schoenus nigricans</i>	Black Bog-rush	Ortuabis area, Nuraghi Figus, etc.
<i>Scirpoidess holoschoenus</i>	Round-headed Club Rush	South east 2017

## **Poaceae**

<i>Aira caryophyllea</i>	Silver Hair-grass	Nuraghi Figus
<i>Ampelodesmos mauretanicus</i>		Widespread, locally dominant
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	Widespread
<i>Arundo donax</i>	Giant Reed	Widespread, locally common
<i>Avena barbata</i>	Bearded Wild-oat	
<i>Avena sterilis</i>	Winter Wild-oat	Scattered
<i>Briza maxima</i>	Large Quaking Grass	South east
<i>Briza minor</i>	Lesser Quaking Grass	
<i>Bromus diandrus</i>	Great Brome	
<i>Bromus madritensis</i>	Compact Brome	
<i>Bromus rigidus</i>	Rigput Brome	
<i>Bromus sterilis</i>	Barren Brome	Scattered
<i>Catapodium rigidum</i>	Fern Grass	Cagliari
<i>Dactylis glomerata</i>	Cock's-foot	
<i>Hordeum murinum</i>	Wall Barley	Widespread
<i>Hyparrhenia hirta</i>		North east
<i>Lagurus ovatus</i>	Hare's-tail Grass	Cagliari area, Is Arenas
<i>Lamarckia aurea</i>	Golden Dog's-tail	Cagliari area, south west
<i>Lygeum spartum</i>	Albardine	Cala Mosca
<i>Parapholis incurva</i>		
<i>Phleum arenarium</i>	Sand Cat's-tail	
<i>Phragmites australis</i>	Common Reed	Locally dominant in wetlands
<i>Poa annua</i>	Annual Meadow-grass	
<i>Poa bulbosa</i>	Bulbous Meadow-grass	Scattered, generally viviparous
<i>Rostraria cristata</i>	Crested Hair-grass	Common at Nuraghi Figus
<i>Setaria pumila</i>	Yellow Bristle-grass	Cagliari area
<i>Stipa capensis</i>	Mediterranean Needle Grass	Cagliari area, Seu
<i>Vulpia bromoides</i>	Squirrel-tail Fescue	Cagliari 2018
<i>Vulpia fasciculata</i>	Dune Fescue	Common near Sanluri, Cagliari
<i>Vulpia myuros</i>	Rat's-tail Fescue	South west

## **Orchidaceae**

<i>Aceras anthropophorum</i>	Man Orchid	Domusnovas
<i>Barlia robertiana</i>	Giant Orchid	Widespread, with many still in good flower this year, especially numerous at Adoni. Also Domusnovas. More or less over at Is Arenas.
<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	Domusnovas area on the recce
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	2 at Ortuabis 2017

<i>Epipactis microphylla</i>	Small-leaved Helleborine	Probably this species in early leaf at Domusnovas, 2017
<i>Gennaria diphylla</i> <i>Limodorum abortivum</i>	Violet Limodore	Very many at Is Arenas, in fine flower Nuraghi Figus, many in bud, a few at Burcei
<i>Neotinea maculata</i>	Dense-flowered Orchid	Is Arenas (unspotted leaves, no flowers this year), and Domusnovas and Furtei (pink flowers, spotted leaves).
<i>Orchis collina</i>	Fan-lipped Orchid	Remarkably found near Collinas on recce!! 2012, seen there again. 13 gone over spikes and one still just in flower. Also 3 spikes on road up to Giara di Gesturi. 2013, 1 old spike at Collinas, 1 in fine flower still near Furtei. 2014, some 5 at Collinas, just still in flower. 2015, gone over above hotel and above Setzu 2017, several gone over at Seu 2018, still in flower Collinas (PGC), and many on road to Giara di Gesturi. 2019, several gone over at Seu, and on road To Giara di Gesturi
<i>Orchis ichnusae</i> <i>Orchis lactea</i> <i>Orchis longicornu</i>	Milky Orchid	Domusnovas, Ortuabis. Endemic. Giara di Gesturi and Adoni 2018 Widespread and locally common, very variable
<i>Orchis papilionacea</i>	Pink Butterfly Orchid	Widespread and locally very common, many fine examples
<i>Orchis provincialis</i> <i>Orchis longicornu</i> x <i>papilionacea</i>		A few in the Domusnovas area 2018 Near Sanluri 2015
<i>Ophrys bombyliflora</i>	Bumblebee Orchid	In varied numbers at several sites, fine at the airport
<i>Ophrys chestermannii</i> <i>Ophrys eleonora</i>		1 near Domusnovas. Endemic. Widespread, seen at many sites, especially fine at Adoni
<i>Ophrys funerea</i>		Giara di Gesturi 2018. An endemic shared with Corsica.
<i>Ophrys incubacea</i> <i>Ophrys lepida</i> <i>Ophrys lutea</i> <i>Ophrys morisii</i> <i>Ophrys normanii</i>	Yellow Bee Orchid	Su Pallosu etc. A few at Ortuabis
<i>Ophrys ortuabis</i>		Domusnovas. Endemic. Usually a few in fine flower near Domusnovas. Not seen 2019. Endemic. Many at Ortuabis, the type locality. Endemic.
<i>Ophrys phryganae</i>		Widespread, very common at Seu and Is Arenas

<i>Ophrys sicula</i>		A few records
<i>Ophrys speculum</i>	Mirror Orchid	Widespread and locally common
<i>Ophrys subfusca</i> ssp. <i>liverani</i>		Several at Is Arenas. Endemic subspecies.
<i>Ophrys tenthredinifera</i>	Sawfly Orchid	Widespread and locally common. According to Delforge <i>O.tenthredinifera</i> does not occur in Italy at all and the species here is <i>O.neglecta</i> . A hybrid of <i>O.speculum</i> x <i>O.morisii</i> , seen in Laconi area 2007
<i>Ophrys x barbaricina</i>		Near Sanluri 2017
<i>Ophrys tenthredinifera</i> x <i>bombyliflora</i>		1 near Nuraghi Figus 2014
<i>Ophrys tenthredinifera</i> x <i>incubacea</i>		Near Sanluri 2007
<i>Ophrys tenthredinifera</i> x <i>speculum</i>		Several fine specimens at Nuraghi Figus, also in the south-east, where a hypochromic individual was not fully open.
<i>Serapias cordigera</i>		Locally common, south-west, M.Linas, south east
<i>Serapias lingua</i>	Tongue Orchid	South west 2018
<i>Serapias parviflora</i>	Small-flowered Tongue-Orchid	Near Domusnovas 2017. Not confirmed for Sardinia in the Flora.
<i>Serapias vomeracea</i>	Long-lipped Serapias	Probably this hybrid with both parents at Nuraghi Figus, 2013
<i>Serapias lingua</i> x <i>cordigera</i>		



## Systematic List Number 2      Butterflies

The taxonomy and systematic order follows that found in 'Butterflies of Britain and Europe', a HarperCollins guide, by Tolman.

### ***Papilionidae***

Corsican Swallowtail	<i>Papilio hospiton</i>	Widespread and rather common this year, seen at many sites
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### ***Pieridae***

Large White	<i>Pieris brassicae</i>	Scattered records
Small White	<i>Artogeia rapae</i>	Scattered records
Corsican Dappled White	<i>Euchloe insularis</i>	Widespread and locally common
Orange-Tip	<i>Anthocharis cardamines</i>	N.Adoni
Clouded Yellow	<i>Colias crocea</i>	Scattered records
Cleopatra	<i>Gonepteryx cleopatra</i>	Scattered records
Brimstone	<i>Gonepteryx rhamni</i>	Scattered records

### ***Lycaenidae***

Green Hairstreak	<i>Callophrys rubi</i>	Furtei and Su Pallosu
Small Copper	<i>Lycaena phlaeas</i>	Su Pallosu
Holly Blue	<i>Celastrina argiolus</i>	Scattered records
Brown Argus	<i>Aricia agestis</i>	Iglesias coast etc.
Common Blue	<i>Polyommatus icarus</i>	Scattered records

### ***Libytheidae***

[Nettle-tree Butterfly	<i>Libythea celtis</i>	1 in Laconi area, a hibernated individual, on recce]
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### ***Nymphalidae***

Comma	<i>Polygonia c-album</i>	N.Adoni
Large Tortoiseshell	<i>Nymphalis polychloros</i>	Several seen, M.Linas, Adoni, Ortuabis
[Sardinian Tortoiseshell	<i>Aglais ichnusa</i>	Nuraghi Adoni 2014. Endemic to Corsica and Sardinia.]
Red Admiral	<i>Vanessa atalanta</i>	A few records
Painted Lady	<i>Cynthia cardui</i>	A few records

### ***Satyridae***

Small Heath	<i>Coenonympha pamphilus</i>	Scattered records, e.g. Giara di Gesturi
[Corsican Heath	<i>Coenonympha corinna</i>	2, Monte Albo, 2017]
Speckled Wood	<i>Pararge aegeria</i>	Widespread and common
Tyrrhenian Wall Brown	<i>Lasiommata paramegaera</i>	Widespread and common

### ***Hesperiidae***

[Mallow Skipper	<i>Carcharodus alceae</i>	Cagliari 2017]
[Dingy Skipper	<i>Erynnis tages</i>	1 in the south-east 2013]

## Systematic List Number 3

## Birds

Cory's Shearwater	<i>Calonectris diomedea</i>	Several from the Corsica ferry
Yelkouan Shearwater	<i>Puffinus yelkouan</i>	Several from the Corsica ferry
Cormorant	<i>Phalacrocorax carbo</i>	Sinis coast and Cagliari area
Shag	<i>Phalacrocorax aristotelis</i>	Sinis coast
Greater Flamingo	<i>Phoenicopterus phoenicopterus</i>	Very many (1000s) on lagoons around Cagliari, and Sinis Peninsula
Little Egret	<i>Egretta garzetta</i>	Scattered in small numbers
Cattle Egret	<i>Bubulcus ibis</i>	Widespread in small numbers
Great Egret	<i>Ardea alba</i>	Cagliari salt pans
Grey Heron	<i>Ardea cinerea</i>	Cagliari salt pans
Shelduck	<i>Tadorna tadorna</i>	Sinis
Mallard	<i>Anas platyrhynchos</i>	Cagliari
Buzzard	<i>Buteo buteo</i>	Widespread in small numbers
Marsh Harrier	<i>Circus aeruginosus</i>	Seen on 6 days
Kestrel	<i>Falco tinnunculus</i>	Widespread
Barbary Partridge	<i>Alectoris barbara</i>	2 in the south-east was a bird highlight. Also one seen by PGC near Sta.Teresa when returning from Corsica.
Quail	<i>Coturnix coturnix</i>	Occasionally heard
Black-winged Stilt	<i>Himantopus himantopus</i>	Sinis Peninsula
Stone Curlew	<i>Burhinus oediconemus</i>	Heard from the hotel nightly. None seen this year.
Common Sandpiper	<i>Actitis hypoleucos</i>	1, Cagliari
Black-headed Gull	<i>Larus ridibundus</i>	Cagliari area
Slender-billed Gull	<i>Larus genei</i>	Cagliari area
Audouin's Gull	<i>Larus audouinii</i>	Sinis coast
Yellow-legged Herring Gull	<i>Larus cachinnans</i>	Widespread and common
Rock Dove	<i>Columba livia</i>	Widespread
Wood Pigeon	<i>Columba palumbus</i>	Scattered records
Collared Dove	<i>Streptopelia decaocto</i>	Widespread and common
Little Owl	<i>Athene noctua</i>	Two near the hotel, two near Villanovaforru
Common Swift	<i>Apus apus</i>	
Pallid Swift	<i>Apus pallidus</i>	
Alpine Swift	<i>Apus melba</i>	Cala Mosca
Hoopoe	<i>Upupa epops</i>	A few records
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Scattered records, e.g. Is Arenas
Woodlark	<i>Lullula arborea</i>	Displaying on Giara di Gesturi, a few elsewhere too
Swallow	<i>Hirundo rustica</i>	Widespread and common
House Martin	<i>Delichon urbica</i>	Scattered records
Crag Martin	<i>Ptyonoprogne rupestris</i>	Scattered records
Tree Pipit	<i>Anthus trivialis</i>	Ortuabis
White Wagtail	<i>Motacilla alba</i>	Cagliari

Wren	<i>Troglodytes troglodytes</i>	Scattered records, heard
Robin	<i>Erithacus rubecula</i>	Widespread in small numbers
Common Redstart	<i>Phoenicurus phoenicurus</i>	c.10 Su Pallosu
Stonechat	<i>Saxicola torquata</i>	Scattered records
Blackbird	<i>Turdus merula</i>	Widespread
Song Thrush	<i>Turdus philomelos</i>	
Mistle Thrush	<i>Turdus viscivorus</i>	Giara di Gesturi
Cetti's Warbler	<i>Cettia cetti</i>	Heard at various sites
Zitting Cisticola	<i>Cisticola juncidis</i>	Only a few records
Sardinian Warbler	<i>Sylvia melanocephala</i>	Widespread and common
Blackcap	<i>Sylvia atricapilla</i>	Widespread
Chiffchaff	<i>Phylloscopus collybita</i>	Day 4
Goldcrest	<i>Regulus regulus</i>	Heard
Firecrest	<i>Regulus ignicapillus</i>	N.Adoni and Furtei
Coal Tit	<i>Parus ater</i>	South east
Blue Tit	<i>Parus caeruleus</i>	Widespread
Great Tit	<i>Parus major</i>	Widespread
Woodchat Shrike	<i>Lanius senator</i>	Giara di Gesturi
Jay	<i>Garrulus glandarius</i>	Widespread
Jackdaw	<i>Corvus monedula</i>	Scattered records
Hooded Crow	<i>Corvus corone cornix</i>	Widespread and common
Raven	<i>Corvus corax</i>	Scattered records
Spotless Starling	<i>Sturnus unicolor</i>	Widespread and very common
Spanish Sparrow	<i>Passer hispaniolensis</i>	Widespread and common, seen daily
Chaffinch	<i>Fringilla coelebs</i>	Widespread and common
Serin	<i>Serinus serinus</i>	Widespread
Greenfinch	<i>Carduelis chloris</i>	Widespread and common
Goldfinch	<i>Carduelis carduelis</i>	Widespread and common
Linnet	<i>Carduelis cannabina</i>	Scattered records
Corn Bunting	<i>Miliaria calandra</i>	Widespread and common
Cirl Bunting	<i>Emberiza cirlus</i>	Widespread

## Systematic List Number 4

## Amphibians, Reptiles & Mammals

Sardinian Brook Newt	<i>Euproctus platycephalus</i>	Seen by the lucky few in the south east, a pair and a larva, 2015
Tyrrhenian Tree Frog	<i>Hyla sarda</i>	Heard on Giara di Gesturi
Tyrrhenian Painted Frog	<i>Discoglossus sardus</i>	1 on Giara di Gesturi 2017
Spur-thighed Tortoise	<i>Testudo graeca</i>	1 at Seu where naturalised, 2013
Hermann's Tortoise	<i>Testudo hermanni</i>	Cabras 2007
Moorish Gecko	<i>Tarentola mauritanica</i>	Furtei
Turkish Gecko	<i>Hemidactylus turcicus</i>	1 at the agriturismo, 2017
Pygmy Algyroides	<i>Algyroides fitzingeri</i>	Furtei
Italian Wall Lizard	<i>Podarcis sicula</i>	
Tyrrhenian Wall Lizard	<i>Podarcis tiliguerta</i>	Widespread
Italian Three-toed Skink	<i>Chalcides chalcides</i>	Scattered records 2016
Ocellated Skink	<i>Chalcides ocellatus</i>	1 at Cala Mosca, 1 M.Linas, 2017
Western Whip Snake	<i>Coluber viridiflavus</i>	1 at Furtei 2018
Viperine Snake	<i>Natrix maura</i>	One near Domusnovas and one near Sanluri 2007
Pantellerian Shrew	<i>Crocidura ichnusae</i>	A dead individual in the south west, 2015. Possibly this species also a casualty, seen in 2018.
Western Hedgehog	<i>Erinaceus europaeus</i>	Road casualties
Wild Boar	<i>Sus scrofa</i>	A large adult, Sinis, 2018. Sign widespread.
Fox	<i>Vulpes vulpes</i>	Road casualties
Weasel	<i>Mustela nivalis</i>	Recorded 2014
Pine Marten	<i>Martes foina</i>	West of Laconi 2018
Rabbit	<i>Oryctolagus cuniculus</i>	Sign
Cape Hare	<i>Lepus capensis</i>	Sign