Crete in Autumn

Naturetrek Tour Report

21 - 28 October 2014









Topolia Gorge

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Day 1

Tuesday 21st October

The group arrived in Hania on direct flights from Gatwick and Manchester, an hour or so apart. The hotel provided a lunch for those that required one, leaving the remaining part of the afternoon to settle in and explore the town. We reassembled in the early evening and went to a nearby taverna to sample a delicious selection of traditional Cretan food.

Day 2

Wednesday 22nd October

Travelling westwards from Hania, we made our first stop along the coast at a sandy bay, backed by a small area of dunes. A typical coastal flora included Cottonweed *Otanthus maritimus*, Sea Holly *Eryngium maritimum*, the striking grey hummocks of Spiny Knapweed *Centaurea spinosa* and Sea Daffodil *Pancratium maritimum*, mostly in fruit, but a few still displaying their spectacular sweetly-scented flowers.

At Kolimbari we turned south to the pretty village of Marathocephala, above a sea of Olives. Our attention was immediately drawn to the deep-yellow goblets of *Sternbergia lutea*, growing in parched conditions at the edge of a garden. Although we were to see this species on other occasions it was always as a cultivated plant. On the rocky hillsides above the village there were many flowers of *Cyclamen graecum* subsp. *graecum*, common in southern mainland Greece, but restricted to the north-west of Crete. The tall flower spikes and huge bulbs of Sea Squill *Charybdis maritima* were prominent but the Autumn Squill *Prospero autumnale*, although extremely common, was much less obvious. Insects were abundant, including a number of Swallowtail Butterflies laying eggs on Fennel, their larval host plant. Praying Mantis *Mantis religiosa* and an adult female European Dwarf Mantis *Ameles spallanzania* were also seen. A conveniently situated table and chairs provided an excuse for lunch before we continued our journey.

We drove down to Spilia, back to Kolimbari and out onto the rocky Rodopou Peninsula to see more extensive populations of *Cyclamen graecum* in the Olive groves and rocky fields around Astratigos. We then continued to Falasarna at the foot of the most westerly peninsula and visited the ruins of the Hellenistic city and harbour that was an important naval and trading port from the 4th century BC until it was destroyed by the Romans in 69 BC. Along the present-day coast, a fossil cliff bears testimony to the tectonic forces that uplifted western Crete by nine metres in 365 AD and left the harbour high and dry. On a small area of sand dune was more Sea Daffodil and Sea Spurge *Euphorbia paralias*, on which a number of caterpillars of the Spurge Hawk-moth *Hyles euphorbiae* were feeding. On the cliffs were the silver-leaved near-endemic *Inula candida* and the autumn-flowering Heath

Erica manipuliflora. We returned to Hania after a long and varied day and drove down to the harbour to eat in one of the many restaurants.

Day 3

Thursday 23rd October

We awoke to rain and a very unpromising day. Undaunted and optimistic, we drove south through the rugged landscape of the White Mountains. Here, as in other areas of Crete and southern Greece, a combination of faulting in the limestone rocks and millions of years of karstic weathering has created flat fertile depressions of red iron-rich soils, technically known as poljes. The Askifou plateau is one of the largest of these on Crete and now funnels its drainage underground. Originally, rivers would have drained south, carving out the Imbros and adjacent gorges before being captured by a lowering of the land surface.

Before setting off down the gorge, we enjoyed a local speciality of pancakes with cheese and honey at the taverna. It was windy and wet as we set off, but soon cleared to give us ideal conditions for our walk. Our first find was Autumn Lady's Tresses Spiranthes spiralis and a few delicate Crocus laevigatus, as we followed the bed of the gorge. A few plants of the endemic Cyclamen graecum subsp. candicum were wedged into tight crevices in the boulders and on the cliffs were many of Crete's endemic chasmophytes, including Dittany Origanum dictamnus, Cretan Sainfoin Ebenus cretica, the striking shrubby composite Staehelina petiolata and the shrubby Bedstraw Galium fruticosum. The autumn-flowering Buttercup Ranunculus bullatus was common and Friar's Cowl Arisarum vulgare displayed its curious hooded spathes in shady places, indicating there had been significant rain in the preceding weeks. With some patient searching we found a few yellow Sternbergia sicula, flowering from crevices in the hard limestone and the onion Allium callimischon subsp. baemostictum, with delicate red-spotted flowers. The gorge dramatically deepened beneath towering cliffs and after several narrow sections, we eventually emerged onto a broad apron of cobbles that led down to the road. It had been a thrilling walk, with new discoveries around every corner and took us an amazing five and a half hours. A late lunch was enjoyed at the taverna while the minibus was retrieved, and we arrived back in Hania around 6.30pm before a very cheap evening meal just up the road.

Day 4

Friday 24th October

Good weather was forecast as we made our first stop at Agia Lake, where natural freshwater springs have been dammed to create one of the finest wetland sites in Crete. Among the usual Coot and Moorhen were Shoveler, Teal, Widgeon, Tufted Duck and Pintail. Grey Heron and Little Egret stood sentinel in the reeds, Little Grebe dabbled around the margins and Kingfisher flashed by. We drove on upwards towards Omalos stopping at Lakki for the view. At this point the weather took a turn for the worse and we headed for the shelter of the Omalos Taverna and a cosy log fire. The storm worsened, rain and hail lashed down, with thunder and lightning and a wind that threatened to blow the van over. We were extremely grateful to be allowed to eat our picnic indoors.

Miraculously the weather abated to allow us an hour's foray onto the plateau, where we saw some rather bedraggled *Crocus laevigatus* and the endemic *Colchicum cretense*. In a small enclosure we were able to see a family of Kri-kri, Crete's ancestral wild goat, which is still to be found in the Samaria National Park. We made a brief visit to the head of the Samaria Gorge, where there are some fine trees of *Zelkova abelicea*, before the storm returned. The roads were covered in boulders from the torrents of water that were cascading down the hillsides and our attempt to complete a circuit of the plateau was stopped by a raging torrent, rolling boulders the size of footballs across the road. It was an experience that will remain long in our memories. After leaving Omalos, on the

recently completed new road, we managed a short break to see a dense population of *Cyclamen graecum* subsp. *candicum* with a tremendous range of exquisitely patterned leaves. It was growing in tight crevices in hard waterworn limestone, along with *Colchicum cretense* and *Crocus laevigatus*. Back in Hania we took an opportunity to visit the covered market, as it would be closed on our last day. Once again we drove down to the harbour to sample the food in another restaurant.

Day 5

Saturday 25th October

We made our way west along the New National Road and then south to the village of Topolia. On the hillside, below a chapel there were many plants of *Cyclamen confusum* growing in lightly-shaded conditions under scrub. This plant is no doubt descended from the familiar *Cyclamen hederifolium* but was relatively recently elevated to the rank of species on account of its hexaploid chromosome number and some consistent morphological differences. Growing on the same site were numbers of sweetly-scented *Narcissus serotinus* and tiny pink *Colchicum pusillum*. Higher up the Topolia Gorge we stopped for drinks at a taverna, before climbing the steps to the impressive cave of Agia Sophia. Several plants of *Sternbergia sicula* were found as well as a number of Cyclamen and many of the chasmophytes we had seen previously in the Imbros Gorge. A short distance up the road, we made another stop to see a prolific population of *Cyclamen hederifolium* subsp. *hederifolium*, the typical diploid species, under the deep shade of woodland.

Continuing south, we passed through woodlands of Oriental Plane *Platanus orientalis* and Chestnut *Castanea sativa*, and extensive areas of colourful maquis with Strawberry Tree *Arbutus unedo* and purple *Erica manipuliflora*. On reaching the coast we lunched in the shade of Calabrian Pine *Pinus halepensis* subsp. *brutia* near a very interesting beach made up of limestone breccias. The spiny phrygana here was dominated by the aromatic *Cordiothymus capitatus*, the aromatic Satureia *Satureja thymbra* and the endemic *Verbascum spinosum*, with the addition of many large Sea Squill and several little colonies of *Spiranthes spiralis*.

Our final destination, a little way down the coast, was the island of Elaphonisi, an increasingly popular beach destination but one with a fascinating natural history which is recognised and protected under its designation as a Natura 2000 site. Many trees of the large-fruited *Juniperus oxycedrus* subsp. *macrocarpa* dominate the shore with large areas of sand-dunes containing abundant Sea Daffodil and Sea Spurge, as well as local specialities such as *Silene succulenta* and *Limonium elaphonesiacum*. We had time to explore or relax here in the sunshine but the long journey back to Hania, with yet more rain, meant we were quite late. We walked down to the Venetian harbour in the evening for another delicious meal.

Day 6

Sunday 26th October

After a late evening, at least we had an extra hour, as the clocks changed. The Akrotiri peninsula has been the traditional home to monastic settlements for many centuries. We visited the Agia Triada Monastery first and then drove to the Gouverneto Monastery on the rocky headland. From here we walked down the path to the Cave of St John and a number of us continued down to the ruins of the Katholikou Monastery, in the bottom of the gorge. A number of tiny *Colchicum pusillum* were seen on the walk and on the cliffs and walls of the ruins were more special plants, including the endemic shrubby Pink *Dianthus fruticosus* subsp. *creticus* and Cretan Sneezewort *Achillea cretica*.

We drove through Souda to the hilltop archaeological site of Aptera where we visited the impressive Roman site before lunch and the Roman villa and Turkish fort afterwards. New shrubs were the pungent Bean Trefoil *Anagyris foetida*, the strange *Withania somnifera*, a naturalised member of the Tomato Family with a host of medical properties, and the shrubby Wormwood *Artemisia arborescens*. A short walk led to the impressive walls and gateway of the Roman walled city. We boarded the minibus for the return journey to Hania, stopping briefly at the Allied War Cemetery at the head of Souda Bay. As darkness fell, the rain started again, so to avoid a possible soaking, we took the bus to the nearby taverna.

Day 7

Monday 27th October

After thunderstorms and rain overnight, the weather improved as we drove west. Just before Kastelli, we turned south again to Topolia and followed a minor road into the hills. We made a short walk into a small valley to the west where there were a number of *Cyclamen hederifolium* subsp. *hederifolium*. This population apparently links with the plants we had seen south of Topolia. Most of the valley was given over to Olive groves and vegetables, including Okra but there were some interesting natives such as the Evergreen Birthwort *Aristolochia sempervirens*, *Osyris alba*, with red berries, and the little endemic onion *Allium tardans*. At Sirikari, we started our walk by a little chapel, descending steeply, at first, through Oak woodland to gain the main trail down the gorge. *Cyclamen confusum* was very common, mostly with flowers of a dark pink, growing on cliffs and abandoned terraces. The path descended to a dry riverbed lined with Oleander and magnificent Plane trees, at which point I returned to move the minibus to the bottom of the gorge.

Many Sternbergia sicula were seen in flower amongst the Cyclamen, on the cliffs and boulders and small clumps of Colchicum pusillum dotted the rocky hillsides. At the bottom of the gorge we had lunch in an olive grove, just in time, as rain returned. We drove up to the hilltop village of Polyrinia and spent some time exploring its narrow streets and alleyways, the Roman cisterns and aqueducts and eventually finding a raki still and an olive-wood shop, where many interesting souvenirs were purchased. In several places in the village there were impressive displays of Sternbergia lutea. Rain put us off any further exploration and we returned to Hania, walking down to the old Venetian City for our last evening meal.

Day 8

Tuesday 28th October

After a busy week of rather mixed weather, we dodged the rain and spent the morning exploring Hania. We met back at the hotel for last minute packing and departed for the airport around midday. Three of us remained for another night in Hania, before flying to Athens to continue our explorations in the Peloponnese.

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Species Lists

sempervirens‡

Juniperus oxycedrus subsp. macrocarpa

Juniperus oxycedrus subsp. oxycedrus

Plants (• = endemic or near endemic to Crete; ‡ = cultivated or naturalised)

Scientific Name Common Name Notes LYCOPODIOPSIDA CLUBMOSSES Selaginellaceae Lesser Clubmosss Family Selaginella denticulata Mediterranean Selaginella Damp shady places **EQUISETOPSIDA HORSETAILS Equisetaceae Horsetail Family** Equisetum ramosissimum Branched Horsetail Hedges. Agia Lake Equisetum telmateia Giant Horsetail Ditches and lake margin. Agia **PTEROPSIDA FERNS Aspleniaceae** Spleenwort Family Asplenium ceterach Rusty-back Fern Common on rocks Asplenium onopteris Acute-leaved Spleenwort Shaded cliffs Asplenium trichomanes subsp. Maidenhair Spleenwort Rock crevices quadrivalens Dennstaedtiaceae **Bracken Family** Pteridium aquilinum Bracken Locally common Dryopteridaceae **Buckler-fern Family** Pale Buckler-fern Dryopteris pallida Shady cliffs. Imbros **Polypody Family** Polypodiaceae Southern Polypody Polypodium cambricum Shady rocks. Imbros Pteridaceae Maidenhair Fern Family Adiantum capillus-veneris Maidenhair Fern Damp shaded cliffs Anogramma leptophylla Jersey Fern Damp shaded earth Cheilanthes acrosticha Scented Cheilanthes Rock crevices Cosentinea vellea Scaly Cheilanthes Dry rocks near the sea Woodsiaceae Lady-fern Family Athyrium felix-femina Lady-fern Shady cliffs. Imbros Gorge Cystopteris fragilis Brittle Bladder-fern Mountain rocks. Uncommon **PINOPSIDA CONIFERS Araucariaceae** Monkey Puzzle Family Norfolk Island Pine Araucaria heterophylla‡ Cultivated, Coastal Cupressaceae Juniper Family Cupressus sempervirens forma. Cypress Common. Sea level to treeline horizontalis Cupressus sempervirens forma.

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Cultivated

Elaphonisi

Frequent. Mountains

Funeral Cypress

Sea Juniper

Prickly Juniper

Scientific Name Common Name Notes

Juniperus phoenicea Phoenician Juniper Occasional. Maquis

Pinaceae

Pine Family Frequent native tree Pinus halepensis subsp. brutia Calabrian Pine

Pinus halepensis subsp. halepensis‡ Aleppo Pine Cultivated

Pinus pinea‡ Umbrella pine Cultivated near coasts

GNETOPSIDA GNETOPHYTES

Ephedraceae Joint Pine Family

Ephedra foeminea A Joint Pine Cliffs. Imbros Gorge

MAGNOLIOPSIDA FLOWERING PLANTS

DICOTYLEDONS MAGNOLIIDAE

Acanthaceae Acanthus Family

Acanthus spinosus Spiny Bear's Breech Frequent

Aceraceae **Maple Family**

Acer sempervirens Cretan Maple Common. Mountains

Aizoaceae Dew Plant Family

Coastal alien Carprobrotus edulis‡ Hottentot Fig

Anacardiaceae Sumach Family

Pistacia lentiscus Mastic Tree Common in maquis

Pistacia terebinthus **Turpentine Tree** Frequent in maquis and gorges

Schinus molle‡ Californian Pepper Tree Cultivated

Apiaceae Carrot Family

Crithmum maritimum Rock Samphire Maritime rocks Daucus carota Wild Carrot Frequent Rocky fields Eryngium campestre Field Eryngo

Roadsides. Waste places Eryngium creticum Cretan Eryngo

Eryngium maritimum Sea Holly Sand dunes Ferula communis Giant Fennel Common Foeniculum vulgare subsp. piperatum Fennel Common Smyrnium olusatrum Alexanders Aptera

Smyrnium perfoliatum Perfoliate Alexanders Locally common

Periwinkle Family Apocyanaceae

Nerium oleander Oleander Riverbeds. Planted on roadsides

Plumeria rubra‡ Cultivated Frangipani

Araliaceae Ivy Family

Hedera helix Common lvy

Aristolochiaceae Birthwort Family

Aristolochia sempervirens Evergreen Birthwort Frequent

Asteraceae Daisy Family

Achillea cretica Cretan Sneezewort Cliffs. Katholikou

Scientific Name	Common Name	Notes
Achillea ligustica	Southern Yarrow	Common
Artemisia arborescens	Shrubby Wormwood	Aptera
Bellis sylvestris	Southern Daisy	Common
Calendula arvensis	Field Marigold	Common
Carlina corymbosa subsp. graeca	A Flat-topped Carline Thistle	Rocky places
Carlina gummifera	Pine Thistle	Phrygana and fallow fields
Centaurea argentea subsp. macrothysana•	A Knapweed	Cliffs. Imbros Gorge
Centaurea calcitrapa	Red Star Thistle	Occasional
Centaurea idaea•		Rock crevices in phrygana
Centaurea pumilio		Sand dunes. Falasarna and Elaphonisi
Centaurea raphanina subsp. raphanina•		Common on rocks
Centaurea solstitialis	St. Barnaby's Thistle	Occasional
Centaurea spinosa	Spiny Knapweed	North coast beaches
Chondrilla juncea	Rush Skeletonweed	Sandy and waste places
Cichorium intybus	Chicory	Roadsides
Cichorium spinosum	Spiny Chicory	Common
Cynara cornigera	A wild Artichoke	Rocky places
Dittrichia graveolens	Aromatic Inula	Common
Dittrichia viscosa	Stink Aster	Common
Echinops spinosissimus	A Globe Thistle	Common
Eupatorium adenophorum‡	A Shrubby Hemp-agrimony	Roadsides below Lakki
Galactites tomentosa	Galactites	Common
Helichrysum conglobatum	An Everlastingflower	Rocky places
Helichrysum microphyllum	A Curry Plant	Rocky places in mountains
Helichrysum orientale		Cliffs. Katholikou
Inula candida		Coastal cliffs
Inula crithmoides	Golden Samphire	Elaphonisi
Notobasis syriaca	Syrian Thistle	Common. Roadside and waste areas
Onopordon bracteatum subsp. creticum•		Coastal sand and rocky places
Otanthus maritimus	Cottonweed	Sand dunes
Pallenis spinosa	Spiny Golden-star	Common
Phagnalon graecum	Shrubby Cudweed	Rocks, cliffs and walls
Picnomon acarna	Yellow Spine Thistle	Stony ground and roadsides
Ptilostemon chamaepeuce	Shrubby Ptilostemon	Cliffs and rocky banks
Pulicaria odora	Mediterranean Fleabane	Maquis and woodland
Rhagadiolus stellatus	Star Hawkbit	Common
Scolymus hispanicus	Spanish Oyster Plant	Waste areas
Silybum marianum	Milk Thistle	Common. Waste areas
Sonchus asper	Prickly Sow Thistle	Waste areas
Stocholina patialata	Smooth Sow Thistrle	Waste areas Cliffs
Staehelina petiolata• Xanthium spinosum‡	Spiny Cocklebur	Alien weed
Xanthium strumarium‡	Cocklebur	Alien weed
Aanunum Suumanum	Cocklebul	Alleli weed
Berberidaceae	Barberry Family	
Berberis cretica	Cretan Barberry	Mountains
Bignoniaceae	Jacaranda Family	
Jacaranda ovalifolia‡	Jacaranda	Street tree
Boraginaceae	Borage Family	
Eshium angustifolium	Narrow looved Burdons	Common noor coost

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Common near coast

Narrow-leaved Bugloss

Echium angustifolium

Scientific Name	Common Name	Notes
	Dala Davilana	0
Echium italicum subsp. biebersteinii	Pale Bugloss	Common
Heliotropium europaeum Symphytum creticum	Heliotrope Cretan Comfrey	Common Shady cliffs
Symphytum credicum	Cretair Commey	Shauy cillis
Brassicacae	Cabbage Family	
Aethionema saxatile subsp. creticum	Burnt Candytuft	Dry rocky places
Aubrieta deltoidea	Aubretia	Omalos
Brassica cretica subsp. cretica•	Cretan Cabbage	Cliffs
Cakile maritima	Sea Rocket	Sand dunes
Erysimum candicum subsp. candicum•	A Treacle Mustard	Imbros Gorge
Erysimum raulinii•	A Treacle Mustard	Imbros Gorge
Lunaria annua subsp. pachyrhiza	Honesty	Occasional
Cactaceae	Cactus family	
Opuntia ficus-barbarica‡	Prickly Pear	Cultivated
Campanulaceae	Bellflower Family	
Petromarula pinnata•	Cretan Wall Lettuce	Common
Campanula cretica•		Imbros Gorge
_		
Capparaceae	Caper Family	
Capparis spinosa	Caper	Frequent on cliffs
Caprifoliaceae	Honeysuckle Family	
Lonicera etrusca	Etruscan Honeysuckle	Occasional
Caryophyllaceae	Pink Family	
Dianthus fruticosus subsp. creticus•		Cliffs. Katholikou
Dianthus xylorrhizus•		Rocks. Polyrinia
Petrorhagia dianthoides•	A Tunic Flower	Cliffs. Imbros Gorge
Silene succulenta subsp. succulenta		Elaphonisi Island
Chenopodiaceae	Goosefoot Family	
Salsola kali	Prickly Saltwort	Sandy beaches
Cistaceae	Rock-rose Family	
Cistus creticus subsp. creticus	Cretan Cistus	Common
Cistus monspeliensis	Narrow-leaved Cistus	Frequent in magius
Cistus parviflorus	Few-flowered Cistus	Local in magius
Cistus salvifolius	Sage-leaved Cistus	Locally common
Fumana arabica	Mediterannean Rock-rose	Common. Rocky places
Fumana thymifolia	Thyme Rock-rose	Common. Rocky places
Convolvulaceae	Bindweed Family	
Convolvulus althaeoides	Mallow-leaved Bindweed	Common
Convolvulus oleifolius	Olive-leaved Bindweed	Dry rocky places
Cuscuta epithymum	Common Dodder	Frequent parasite
Ipomoea indica‡	A Morning Glory	Cultivated
Crassulaceae	Stonecrop Family	
Rosularia serrata	Storicolop I aminy	
Sedum amplexicaule subsp. tenuifolium		Rocky places
Sedum creticum var. monocarpicum		Cliffs
2 2 2 2 U. Sasam Tan monocurpicum		J .

Scientific Name Common Name Notes Sedum praesidis. Rocky phrygana Reddish Stonecrop Sedum rubens Rocky places Sedum sediforme Mediterranean Stonecrop Rocky places Umbilicus horizontalis A Pennywort Shaded cliffs Cucurbitaceae **Cucumber Family** Bryonia cretica White Bryony Frequent Ecballium elaterium Squirting Cucumber Waste places Dipsacaceae **Teasel Family** Knautia integrifolia A Scabious Occasional in phrygana **Ericaceae Heather Family** Arbutus unedo Strawberry Tree Locally common Erica arborea Tree Heather Locally common Erica manipuliflora Autumn Heather Locally common Euphorbiaceae **Spurge Family** Euphorbia acanthothamnos Greek Spiny Spurge Common Euphorbia chamaesyce Bare ground Small Spurge Euphorbia characias Large Mediterranean Spurge Common Euphorbia dendroides Tree Spurge Maritime cliffs Euphorbia paralias Sea Spurge Sand dunes Euphorbia peplis Petty Spurge Sandy beaches Euphorbia pulcherrima‡ Poinsettia Cultivated Euphorbia sultan-hassei. A Tree Spurge Cliffs. Imbros Gorge Mercurialis annua **Annual Mercury** Common Ricinus communis‡ Castor Oil Plant Frequent naturalised weed **Fabaceae Pea Family** Anagyris foetida Scrub and waste areas Bean Trefoil Anthyllis hermanniae Herman's Kidney Vetch Occasional Anthyllis vulneraria subsp. rubriflora Kidney Vetch Common Common above Omalos Astragalus angustifolius A Milk Vetch Bituminaria bituminosa Pitch Trefoil Common Calycotome villosa Hairy Thorny Broom Common Ceratonia siliqua Carob Common Cercis siliquastrum‡ Cultivated Judas Tree Ebenus cretica• Shrubby Sainfoin Cliffs Common Genista acanthoclada Spiny Broom Lotus cytisoides Grey Bird's-foot Trefoil Coastal sand and rocks Medicago arborea‡ Tree Medick Cultivated and naturalised Sea Medick Sand dunes Medicago marina Ononis spinosa subsp. diacantha Spiny Rest-harrow Rocky places Cultivated and naturalised Robinia pseudoacacia‡ False Acacia Securigera globosa• A Crown Vetch Cliffs. Imbros Gorge Spartium junceum Spanish Broom Roadsides and maquis

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Cultivated and occasionally naturalised

Common

Frequent

Cultivated

Beech Family

Kermes Oak

Valonia Oak

Holm Oak

Sweet Chestnut

Fagaceae

Quercus ilex

Castanea sativa‡

Quercus coccifera subsp. calliprinos

Quercus ithaburensis subsp. macrolepis‡

Scientific Name	Common Name	Notes
Quercus pubescens	White Oak	Locally common
		Locally common
Hypericaceae	St John's-Wort Family	
Hypericum empetrifolium	Crowberry-leaved St John's-Wort	Frequent
Hypericum perforatum	Perforate St John's-Wort	Rocky places
Hypericum triquetrifolium	A St John's-wort	Common
Juglandaceae	Walnut Family	
Juglans regia‡	Walnut	Cultivated
Lamiaceae	Dead-nettle Family	
Ballota acetabulosa	Garden Horehound	Riverbeds near sea level
Ballota nigra	Black Horehound	Waste places
Ballota pseudodictamnus	False Dittany	Rocky phrygana
Clinopodium alpinum subsp. alpinum	Alpine Basil Thyme	Rocky places
Clinopodium creticum•	Cretan Calamint	Imbros Gorge
Clinopodium vulgare	Wild Basil	Maquis and phrygana
Coridothymus capitatus	Shrubby Thyme	Common
Lavandula stoechas	French Lavender	Local in maquis
Marrubium vulgare	White Horehound	Waste places
Micromeria juliana	Micromeria	Rocky places
Micromeria nervosa		Rocky places
Origanum dictamnus•	Cretan Dittany	Cliffs
Origanum microphyllum•		Omalos plateau
Phlomis cretica	Cretan Jerusalem Sage	Locally common
Phlomis fruticosa	Jerusalem Sage	Common
Prasium majus	Prasium	Common
Salvia fruticosa	Three-leaved Sage	Common
Salvia pomifera		Frequent
Salvia verbenaca	Wild Clary	Common
Satureja thymbra	Satureia	Maquis and phrygana
Scutellaria sieberi•	A Skullcap	Cliffs and rocky banks
Sideritis syriaca subsp. syriaca•	Mountain Tea	Mountains
Teucrium alpestre•		Cliffs and rocks
Teucrium capitatum	Felty Germander	Rocky places
Teucrium cuneifolium•		Rare. Imbros Gorge
Teucrium divaricatum		Rocky places
Linaceae	Flax Family	
Linum arboreum	Shrubby Flax	Cliffs in gorges
Malvaceae	Mallow Family	
Abelmoschus esculentus‡	Okra	Cultivated
Hibiscus rosa-sinensis‡	Hibiscus	Cultivated
Lavatera arborea	Tree Mallow	Coast. Hania
Lavatera bryonifolia		Common
Malva sylvestris	Common Mallow	Common
Meliaceae	Mahogany Family	
Melia azedarach‡	Indian Bead Tree	Cultivated
World azodardoff	mulan Deau 1166	Juliivateu
Mimosaceae	Acacia Family	
Acacia retinoides‡	Swamp Wattle	Cultivated

Scientific Name Common Name Notes Moraceae **Mulberry Family** Frequent Ficus carica Fig Morus alba‡ White Mulberry Cultivated Myrtaceae Myrtle Family Myrtus communis Common Myrtle Occasional in magiis Nyctaginaceae **Bougainvillea Family** Bougainvillea glabra‡ Cultivated Bougainvillea Oleaceae **Olive Family** Olea europaea subsp. oleaster Wild Olive Occasional in phrygana Phillyrea latifolia Mock Privet Occasional in maquis Oxalidaceae **Wood Sorrel Family** Oxalis pes-caprae‡ Bermuda Buttercup Common **Paeoniaceae Peony Family** Paeonia clusii subsp. clusii• Clusius' Peony **Omalos Papaveraceae** Poppy Family Glaucium flavum Yellow Horned-poppy Coast **Phytolaccaceae Pokeweed Family** Phytolacca americana‡ American Pokeweed Naturalised **Pittosporaceae Pittosporum Family** Cultivated Pittosporum tobira‡ **Platanaceae Plane Family** Oriental Plane Platanus orientalis River valleys Plumbagiaceae **Thrift Family** Limoniastrum monopetalum‡ Limoniastrum Cultivated. Hania West coast Limonium elaphonisicum. A Sea-lavender Limonium graecum A Sea-lavender Falasarna Polygalaceae Milkwort Family Polygala myrtifolia‡ Myrtle-leaved Milkwort Cultivated Polygonaceae **Dock Family** Persicaria salicifolia Willow-leaved Knotgrass Agia Lake Polygomum equisetiforme Horsetail Knotgrass Coastal sands Polygonum maritimum Sea Knotgrass Rumex bucephalophorus **Bull's Head Dock** Common **Primrose Family Primulaceae** Cyclamen confusum• Topolia and Sirikari Cyclamen graecum subsp. graecum **Greek Sowbread** Spilia and Rodopos Cyclamen graecum subsp. candicum. Imbros and White Mountains Cyclamen hederifolium subsp. South and west of Topolia hederifolium

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Wet cliff. Falasarna

Brookweed

Samolus valerandi

Scientific Name Common Name Notes Punicaceae Pomegranate Family Punica granatum ‡ Cultivated Pomegranate Ranunculaceae **Buttercup Family** Clematis cirrhosa Virgin's Bower Frequent Delphinium staphisagria Lice Bane Imbros Gorge Ranunculus bullatus Locally common Ranunculus creticus Cretan Buttercup Shaded cliffs Ranunculus cytheraeus Local Rhamnaceae **Buckthorn Family** Rhamnus lycioides subsp. oleoides A Buckthorn Frequent in phrygana Rosaceae **Rose Family** Frequent Crategus monogyna Hawthorn Eriobotrya japonica‡ Japanese Loquat Cultivated Poterium sanguisorba subsp. verrucosa Salad Burnet Frequent Prunus dulcis‡ Almond Cultivated Prunus prostrata Rock Cherry **Omalos** Pyracantha coccinea‡ Cultivated Firethorn Pyrus spinosa Wild Pear Common Common Rubus sanctus A Bramble Sarcopoterium spinosum Thorny Burnet Common Rubiaceae **Bedstraw Family** Cliffs Galium fruticosum• A Bedstraw Rubia peregrina Wild Madder Common Rutaceae **Rue Family** Citrus limon‡ Lemon Cultivated Cultivated Citrus sinensis‡ Orange Ruta chalepensis subsp. chalepensis Fringed Rue Occasional Salicaceae Willow Family White Poplar Common Populus alba Sapindacaeae Sapinda Family Cardiospermum halicacabum‡ Balloon Vine Cultivated Santalaceae **Bastard-toadflax Family** Osyris alba Osyris Frequent Saxifragaceae Saxifrage Family Saxifraga chrysosplenifolia A Saxifrage Locally common Scrophulariaceae **Figwort Family** Walls, Hania Cymbalaria muralis Creeping Toadflax Kickxia elatine subsp. sieberi Sharp-leaved Fluellen Agia Lake Scrophularia lucida Shining Figwort Frequent

Nettle-leaved Figwort

Wavy-leaved Mullein

Shrubby Mullein

Common. Imbros Gorge

Cliffs and walls

Common

Common

Scrophularia peregrina

Verbascum arcturus •

Verbascum macrurum

Verbascum sinuatum

Scientific Name Common Name Notes

Verbascum spinosum• Spiny Mullein Common

Simaroubaceae Tree of Heaven Family

Ailanthus altissima‡ Tree of Heaven Naturalised

Solanaceae Nightshade Family

Cestrum nocturnum‡ Night-blooming Jasmine Cultivated. Hotel Halepa

Datura stramonium‡ Thornapple Naturalised

Hyoscyamus albusHenbaneWeedy places and walls. HaniaLycium barbarumDuke of Argyll's Tea PlantNaturalised near the coast

Mandragora autumnalisMandrakeFrequentNicotiana glauca‡Shrubby TobaccoNaturalisedSolanum nigrumBlack NightshadeWeedy placesSolanum villosumHairy NightshadeDamp places

Withania somnifera‡ Withania Aptera

Styracaceae Storax Family

Styrax officinalis Storax Sirikari Gorge

Tamaricaceae Tamarisk Family

Tamarix parviflora A Tamarisk Coasts

Thymelaeaceae Mezereon Family

Daphne sericeaA DaphneLocally common in mountainsThymelaea hirsutaHairy ThymelaeaRocky places near the sea

Ulmaceae Elm Family

Celtis tournefortiiA Nettle TreeImbros GorgeZelkova abelicea•A ZelkovaOmalos plateau

Urticaceae Nettle Family

Parietaria judaica Pellitory-of-the-wall Rocks and walls

Valerianaceae Valerian Family

Valeriana asarifolia∙ A Valerian Imbros Gorge

Verbenaceae Vervain Family

Lantana camara‡ Lantana Cultivated

Verbena officinalisVervainFrequent. Waste areasVitex agnus-castusChaste TreeGorge and stream-beds

Vitaceae Vine Family

Vitis vinifera subsp. sylvestris Wild Vine Occasional

Zygophyllaceae Caltrop Family

Tribulus terrestris Maltese Cross Waste places

LILIIDAE MONOCOTYLEDONS

Amaryllidaceae Daffodil Family

Allium ameloprasum Wild Leek Occasional

Allium bourgeaui subsp. creticum• Topolia Gorge

Allium callimischon subsp. haemostictum Imbros Gorge and Omalos

Scientific Name	Common Name	Notes
Allium chamaespathum		Occasional
Allium circinnatum subsp. circinnatum•		Akrotiri
Allium suhirsutum		Frequent
Allium tardans∙		Frequent
Narcissus serotinus	Late Daffodil	Locally common
Pancratium maritimum	Sea Daffodil	Sand dunes
Sternbergia greuteriana•		Sirikari
Sternbergia lutea	Common Sternbergia	Cultivated
Sternbergia sicula	Slender Sternbergia	Locally common
Araceae	Arum Family	
Arisarum vulgare	Friar's Cowl	Common
Arum concinnatum		Common
Biarum davisii subsp. davisii•		Local
Asparagaceae	Asparagus Family	
Agave americana‡	Century Plant	Cultivated and naturalised
Asparagus aphyllus subsp. orientalis	Leafless Asparagus	Common
Charybdis maritima	Sea Squill	Common
Muscari comosum	Tassel Hyacinth	Imbros Gorge
Ornithogalum narbonense	Southern Star of Bethlehem	Topolia
Prospero autumnale	Autumn Squill	Common
Ruscus aculeatus	Butcher's Broom	Frequent in shade
Colchicaceae	Meadow Saffron Family	
Colchicum cretense•		Omalos
Colchicum pusillum		Frequent at low elevations
Cyperaceae	Sedge Family	
Cyperus capitatus	A Galingale	Sand dunes
Dioscoreaceae	Yam Family	
Tamus communis	Black Bryony	Woodland and scrub
Iridaceae	Iris Family	
Crocus laevigatus		Imbros and Omalos
Juncaceae	Rush Family	
Juncus littoralis	Shore Rush	Elaphonisi
Orchidaceae	Orchid Family	
Spiranthes spiralis	Autumn Lady's Tresses	Local. Phrygana
Poaceae	Grass Family	_
Arundo donax‡	Giant Reed	Common
Ammophila arenaria	Marram Grass	Sand dunes
Briza minor	Lesser Quaking-grass	Frequent
Catapodium rigidum	Fern Grass	Frequent
Melica ciliata	Hairy Melick	Imbros Gorge
Phragmites australis	Common Reed	Marshes and riverbanks
Sesleria doerfleri•		Imbros Gorge

Scientific Name Common Name Notes

Posidoniaceae Neptune Grass Family

Posidonia oceanica Neptune Grass Marine

Smilacaceae Smilax Family

Smilax aspera Smilax Common

Typhaceae Reedmace Family

Typha domingensis Southern Reedmace Agia Lake

Xanthorrhoeaceae Asphodel Family

Asphodeline luteaYellow AsphodelCommonAsphodelus ramosusBranched AsphodelCommon

Zosteraceae Eelgrass Family

Zostera marina Eelgrass Marine

Birds (✓ = recorded but not counted; H = heard only)

						Oct	ober			
	Common name	Scientific name	21	22	23	24	25	26	27	28
1	Eurasian Wigeon	Anas Penelope				✓				
2	Mallard	Anas platyrhynchos				✓				
3	Northern Shoveler	Anas clypeata				✓				
4	Northern Pintail	Anas acuta				✓				
5	Tufted Duck	Aythya fuligula				✓				
6	Little Grebe	Tachybaptus ruficollis				✓				
7	Griffon Vulture	Gyps fulvus			4		4		3	
8	Common Buzzard	Buteo buteo		✓					1	
9	Common Kestrel	Falco tinnunculus		✓	✓		✓	✓	✓	
10	Eleonora's Falcon	Falco eleonorae		✓						
11	Lanner Falcon	Falco biarmicus		✓						
12	Common Moorhen	Gallinula chloropus				✓				
13	Eurasian Coot	Fulica atra				✓				
14	Ruddy Turnstone	Arenaria interpres					✓			
15	Yellow-legged Gull	Larus michahellis		✓		✓	✓	✓	✓	✓
16	Rock Dove/ Feral Pigeon	Columba livia		✓		✓	✓	✓	✓	✓
17	Eurasian Collared Dove	Streptopelia decaocto	✓	✓	✓	✓	✓	✓	✓	✓
18	Common Kingfisher	Alcedo atthis	✓			✓				✓
19	Wryneck	Jynx torquilla				✓				
20	Woodchat Shrike	Lanius senator				✓				
21	Eurasian Jay	Garrulus glandarius				✓				
22	Western Jackdaw	Coloeus monedula		✓					✓	
23	Hooded Crow	Corvus cornix		✓	✓	✓	✓	✓	✓	✓
24	Northern Raven	Corvus corax		✓	✓	✓	✓	✓	✓	
25	Great Tit	Parus major			✓			✓		
26	Crested Lark	Galerida cristata		✓						
27	Barn Swallow	Hirundo rustica			✓					
28	Eurasian Crag Martin	Ptyonoprogne rupestris			✓		✓			
29	Common House Martin	Delichon urbicum				✓				
30	Cetti's Warbler	Cettia cetti				✓				
31	Eurasian Blackcap	Sylvia atricapilla				✓				
32	Sardinian Warbler	Sylvia melanocephala	✓	✓	✓	✓	✓	✓	✓	

						Oct	ober			
	Common name	Scientific name	21	22	23	24	25	26	27	28
33	Common Firecrest	Regulus ignicapilla			Н					
34	Eurasian Wren	Troglodytes troglodytes		✓	✓			✓	✓	
35	Common Starling	Sturnus vulgaris		✓						
36	Common Blackbird	Turdus merula	✓	✓	✓	✓	✓	✓	✓	✓
37	European Robin	Erithacus rubecula						✓	✓	
38	Black Redstart	Phoenicurus ochruros	✓	✓	✓			✓		
39	Italian Sparrow	Passer italiae	✓	✓	✓	✓	✓	✓	✓	✓
40	Grey Wagtail	Motacilla cinerea				✓	✓	✓		
41	White Wagtail	Motacilla alba		✓						
42	Common Chaffinch	Fringilla coelebs		✓	✓			✓	✓	✓
43	European Goldfinch	Carduelis carduelis		✓	✓	50	✓	✓	✓	

$Mammals \ (D = dead; \ E = evidence \ of)$

1	Kri-kri	Capra hircus cretensis			✓				
2	Red Fox	Vulpes vulpes					Е	Е	
3	Eastern Hedgehog	Erinaceus concolor	D			D			
4	Cretan Badger	Meles meles subsp. arcalus						Е	
5	Cretan Beech Marten	Martes foina subsp. bunites		D					

Reptiles

1	Balkan Green Lizard	Lacerta trilineata			✓		
2	Cretan Wall Lizard	Podarcis cretensis			✓	✓	
3	Balkan Terrapin	Mauremys rivulata		✓			

Amphibians

1	Green Toad	Bufo viridis		D						
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Butterflies

1	Swallowtail	Papilio machaon	✓					
2	Small White	Artogeia rapae	✓			✓	✓	✓
3	Clouded Yellow	Colias crocea	✓			✓		
4	Common Blue	Polyommatus icarus	✓	✓				✓
5	Red Admiral	Vanessa atalanta	✓	✓	✓			✓
6	Painted Lady	Vanessa cardui	✓			✓		
7	Cardinal	Argynnis pandora			✓			
8	White-banded Grayling	Pseudochazara anthelia	✓					
9	Meadow Brown	Maniola jurtina				✓		
10	Wall Brown	Lasiommata megera	✓			✓		
11	Mediterranean Skipper	Gegenes nostradamus				✓		

Moths

1	Hummingbird Hawk-moth	Macroglossum stellatarum		✓			
2	Spurge Hawk-moth (larva)	Hyles euphorbiae	✓				
3	Oleander Hawk-moth	Daphnis nerii					✓

Dragonflies

1	Common Darter	Sympetrum striolatum	✓		✓	
2	Migrant Hawker	Aeshna mixta		✓		
3	Scarlet Darter	Crocothemis erythraea	✓		✓	

		October							
Common name	Scientific name	21	22	23	24	25	26	27	28

Other Insects

1	Violet Carpenter Bee	Xylocopa violacea		✓						
2	Paper Wasp	Polistes gallicus		✓						
3	Potter Wasp	Odynerus spinipes		✓						
4	Oriental Hornet	Vesps orientalis	✓	✓	✓			✓		
5	Praying Mantis	Mantis religiosa		✓						
6	European Dwarf Mantis	Ameles spallanzania		✓						
7	Migratory Locust	Locusta migratoria		✓						
8	Egyptian Grasshopper	Anacridium aegyptium		✓						
9	Nosed Grasshopper	Acrida ungarica		✓			✓			
10	Blue-winged Grasshopper	Oedipoda caerulescens							✓	
11	Red-winged Grasshopper	Oedipoda germanica							✓	
12	Cicada	Tibicen plebejus	Н				Е			
13	Devil's Coach Horse	Ocypus olens				✓			✓	

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