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Flora and vegetation of Gávdos (Greece), the southernmost European island. I. Vascular flora and chorological relations

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ABSTRACT

BERGMEIER, E., R. JAHN & A. JAGEL (1997). Flora and vegetation of Gávdos (Greece), the southernmost European island. I. Vascular flora and chorological relations. *Candollea* 52: 305-358. In English, English and French abstracts.

457 vascular plant species (+ 12 infraspecific taxa) are recorded from Gávdos, the southernmost European island, including 297 (+ 11) new records. *Matricaria aurea* is a new record for the Greek flora; *Astragalus epiglottis*, *Erodium cicutarium* subsp. *bipinnatum*, *Lolium subulatum*, *Valerianella pumila* and *Vicia sativa* subsp. *amphicarpa* represent new findings, or confirmations, to Kríti or the South Aegean. *Bupleurum gaudianum* is endemic to Gávdos. Within the Flora Europaea borders of Greece, the following are confined to Gávdos: *Artemisia herba-alba*, *Callitricha pulchra*, *Chlamydophora tridentata* and *Reseda odorata*. The occurrence of several taxa not collected on Gávdos since 1904 is confirmed and comments added for the chorologically significant ones. Gávdos is, phytogeographically, part of the Cardaegean region. There are also strong links to North African Cyrenaica.

RÉSUMÉ

BERGMEIER, E., R. JAHN & A. JAGEL (1997). Flore et végétation de Gávdos (Grèce), l'île la plus méridionale d'Europe. I. Flore vasculaire et relations chorologiques. *Candollea* 52: 305-358. En anglais, résumés anglais et français.

Pour la flore de Gávdos, l'île la plus méridionale d'Europe, 457 espèces (+ 12 sous-espèces) de plantes vasculaires ont été relevées, dont 297 (+ 11) pour la première fois. *Matricaria aurea* est une nouveauté pour la flore grecque. *Astragalus epiglottis*, *Erodium cicutarium* subsp. *bipinnatum*, *Lolium subulatum*, *Valerianella pumila* et *Vicia sativa* subsp. *amphicarpa* sont des nouveautés ou ont vu leur présence confirmée soit pour la Crète, soit pour les îles de la Mer Egée. Dans les limites de la Grèce établies dans Flora Europaea, les espèces suivantes ne se trouvent que sur l'île de Gávdos: *Artemisia herba-alba*, *Callitricha pulchra*, *Chlamydophora tridentata*, *Reseda odorata*. *Bupleurum gaudianum* est la seule endémique de Gávdos. La présence de plantes dont l'existence n'avait plus été vérifiée depuis 1904 a pu être confirmée. Les aspects phytogéographiques de Gávdos et de certaines espèces sont commentés.

KEY-WORDS: Greece – Crete – Gávdos – Island – Vascular flora – Chorology.

Introduction

The South Aegean island of Gávdos, though small, is of considerable phytogeographical interest due to its outlying position as the southernmost European landmark towards the Libyan Sea. Africa is in fact closer than Athens, but there are links to both mainland Greece and Turkey

via the South Aegea island arc. In an attempt to give a comprehensive account of the botany and landscape ecology of Gávdos this contribution provides a catalogue of the vascular flora of the island. The catalogue is based chiefly on our own collections and field notes, as well as on full evaluation of the botanical literature. Unpublished data are included from the collections of B. Snogerup and H. Runemark, Lund. The main chorological traits are analysed and discussed. Floristic similarities to neighbouring regional floras are calculated in order to express phytogeographical relationships.

Geographical background

Gávdos is a Greek island administered by the west Cretan Sélinos district (eparchía) within the prefecture (nómös) Chaniá. The island comprises c. 32 km² and is situated between 34°48'-52.5'N and 24°02.5'-08'E in the Libyan Sea. It is separated from the large island of Kríti (Crete) to the north by a distance of c. 37 km. No part of Europe lies further south than Cape Tripítí on Gávdos. The North African Cyrenaica coast is c. 250 kilometres distant, separated by open sea, whereas the southwest Anatolian mainland somewhat more than 400 km but connected via Kríti, the Karpathos archipelago and Ródos, forming the eastern part of the phytogeographically highly significant South Aegean island arc. Its western part extends via Antikithira to Kíthira, and ends on Elafonísi and the southeastern coast of the Peloponnese, some 200 km from Gávdos. Deep-sea straits of 3500 m below sea level between Libya and Gávdos and 1500 m between Kríti and Gávdos (PFANNENSTIEL, 1960) indicate the extreme submarine topography. Gávdos itself rises to 368 m above sea level.

The island has the shape of a trapezoid, with a long northwest to southeast orientated south coast of c. 10 km which forms an impressive escarpment 200 to more than 300 m high. Northeastward Gávdos shows a moderate incline over a distance of c. 5 km towards the northern cliff coasts and sandy beaches. Below 200 m above sea level chiefly tertiary (middle miocene) formations with sandy soils occur, thus comprising the northern (northeastern) half of the island. The more elevated southwestern part is formed by an older crystalline limestone series mixed with few patches of flysch. The area around the northeast Cape Tsounos consists of a miocene volcano-sedimentary ophiolitic series with a complex of greenrocks, sandstones and breccias, the latter containing various schists, gneiss and quartzites. Coastal sands and dunes are well represented along the north coast. Small alluvial deposits can be found at torrent outlets in various parts of the island, one of them, near Cape Tripítí, being particularly relevant in floristic terms due to the salinity of the substrate. The geology of the island is described in detail by VICENTE (1970) and mapped by the Institute of Geology and Mineral Exploration (IGME, 1993).

The climate of Gávdos is characterized by a very pronounced dry summer period of 6–8 months and moist, rather mild winters. Frost temperatures hardly, if ever, occur. There are no meteorological records but, concluding from the nearest rainfall station of Paleochora in southwest Kríti (see climatogram in BERGMÉIER, 1995), mean annual precipitation can be expected to be less than 400 mm. In summer, northern winds prevail while south winds are most frequent during springtime.

There are three small villages (Kastrí, Vatsianá and Ámbelos) on Gávdos, each with patches of cultivated fields. Additionally, a number of hamlets and isolated small farm sites is scattered over the island most of which are now deserted. Two more settlements, however, are growing rapidly with expanding tourism – Karavé, the harbour site, and Sarakíniko, a sandy area at the north coast, which is already by far the most populated place in summer with beach tourists.

Floristic exploration of Gávdos

The first documented visit of a plant collecting naturalist on the islands of Gávdos and Gavdopoúla was that of Prospero Alpini in 1584, on his way back from Egypt to Padua (ALPINI, 1591, cited after LACK, 1996: 187). 84 out of 135 plant species which were later described and illustrated in “De plantis exoticis” (ALPINI, 1627) originate from the Cretan area (LACK, 1996). While most of the plants lack precise locality information, at least one of them, denoted “Tragacantha”, is explicitly stated to be from the small islands south of Kríti (ALPINI, 1627: 52-53). However, any attempt to identify the illustration with a species present would be hazardous.

The first modern floristic investigation on Gávdos was made in March 1904, when the Austrian botanist Ignaz Dörfler spent six days on the island. The visit was part of his six months’ collection journey to Kríti sponsored by the Vienna Academy of Sciences. Travel data and his collections were published by VIERHAPPER & RECHINGER (1935), including 137 plant records from Gávdos which were also incorporated in RECHINGER’s Flora Aegaea (1943). Rechinger himself spent a short visit on the island in June 1942. His field notes and gatherings from the northeastern part of Gávdos (mainly woody species due to the late season) were published by RECHINGER (1944) and later used in his Phytogeographia Aegaea (RECHINGER & RECHINGER-MOSER, 1951). More extensive collecting was done by H. Runemark and B. Snogerup in May 1980. On this occasion the only known endemic of Gávdos was found – a small annual *Bupleurum* which was described by SNOGERUP (1984) as *B. gaudianum*. Their data, for the most part, is published here for the first time although a few records have been cited by the authors of various taxonomic and floristic treatments (SNOGERUP, 1984; CARLSTRÖM, 1985, 1986; GREUTER, MATTHÄS & RISSE, 1984; RAUS, 1990; BORATYNSKI & al., 1992; van SLAGEREN, 1994). Multi-disciplinary studies on Gávdos in the fields of natural and social history were initiated, or encouraged, by various Greek institutions especially in the 1980s. The reports of VOKOU (1983) and ICONOMOU (1989) contain but scattered floristic data most of which cannot be accepted due to obvious misidentifications.

We visited Gávdos during 1994–1996 each spring for several days, thereby exploring almost all parts of the island. The small island of Gavdopoúla 8 km northwest of Gávdos which has apparently not been visited by a botanist since Alpini’s times, remains almost unknown floristically since inclement weather conditions did not permit our visit. Our specimens as well as extensive field observations more than double the number of 169 taxa so far published on Gávdos. The total number of taxa known (including subspecies) is 470.

The relevant floristic exploration on Gávdos (in brackets: number of specimens, followed by the herbarium acronym of the respective collections) can be summarized as follows:

19.-24.3.1904 – I. Dörfler (137; W)

6.-7.6.1942 – K. H. Rechinger (36; W)

9.-12.5.1980 – H. Runemark, B. Snogerup (c. 220; LD)

17.7. and 2.10.1993 – U. Matthäs (7; B, C)

23.-27.5.1994 – E. and U. Bergmeier, A. Jagel (C)

26.-29.5.1994 – R. Jahn (private herb., Regensburg, with duplicates in UPA)

27.4.-3.5.1995 – E. Bergmeier (C)

1.-5.4.1996 – R. Jahn (total for 1994 and 1996: 175; private herb., Regensburg)

5.-11.4.1996 – E. and U. Bergmeier (total for 1994–1996: 370; C)

Explanatory notes

For the locality list and the floristic catalogue the following acronyms apply: AJ = Armin Jagel; EB = Erwin Bergmeier; RJ = Ralf Jahn; R & BS = Hans Runemark & Britt Snogerup; UM = Ursula Matthäs. In the floristic catalogue the acronyms are followed by the specimen number and the locality code. Field notes are indicated by "obs.", followed by the grid reference(s). Latitude is symbolized by a letter (A-E), representing the coordinates from north to south 34°52' to 34°48'N; longitude by a one-digit number (3-7), representing coordinates from west to east 24°03' to 24°07'E (see Fig. 1). For our herbarium specimens, the localities are encoded by the grid reference followed by a current number (see locality list). If a locality is unprecise or lies on the border of a grid reference, latitude and/or longitude are given by two letters (or numbers) (e.g. CD67, D45). In the catalogue, quotations concerning Dörfler's specimens are taken from VIERHAPPER & RECHINGER (1935), those referring to Rechinger's collections from RECHINGER (1944). For each taxon the records are given in chronological order. Herbarium specimens precede field observations. The latter are given for all grid references except for those with documentation from specimens. Families, genera and species are arranged alphabetically within the major classification units, viz., *Pteridophyta*, *Gymnospermae*, *Dicotyledoneae*, *Mono-cotyledoneae*. Accepted names are set in bold-face italics; they follow the recent flora of the Cretan area (JAHN & SCHÖNFELDER, 1995), and relevant taxonomic literature. Synonyms or misapplied names used by VIERHAPPER & RECHINGER (1935) and RECHINGER (1943, 1944) are also given. Non-established taxa are designated by square brackets []; taxa erroneously cited in literature for Gávdos are given in round brackets (). The frequency of all taxa observed is approximated, based on our field observations.

List of collecting localities

A4-1 around Ag. Ioannis (34°52'00-20"N/24°04'00-50"E), alt. 0-90 m, EB 25/5/1994, 3/5/1995, 6/4/1996

A5-1 N coast 1 km E Ag. Ioannis (34°52'10"N/24°05'10"E) alt. 10-50 m, RJ 27/5/1994

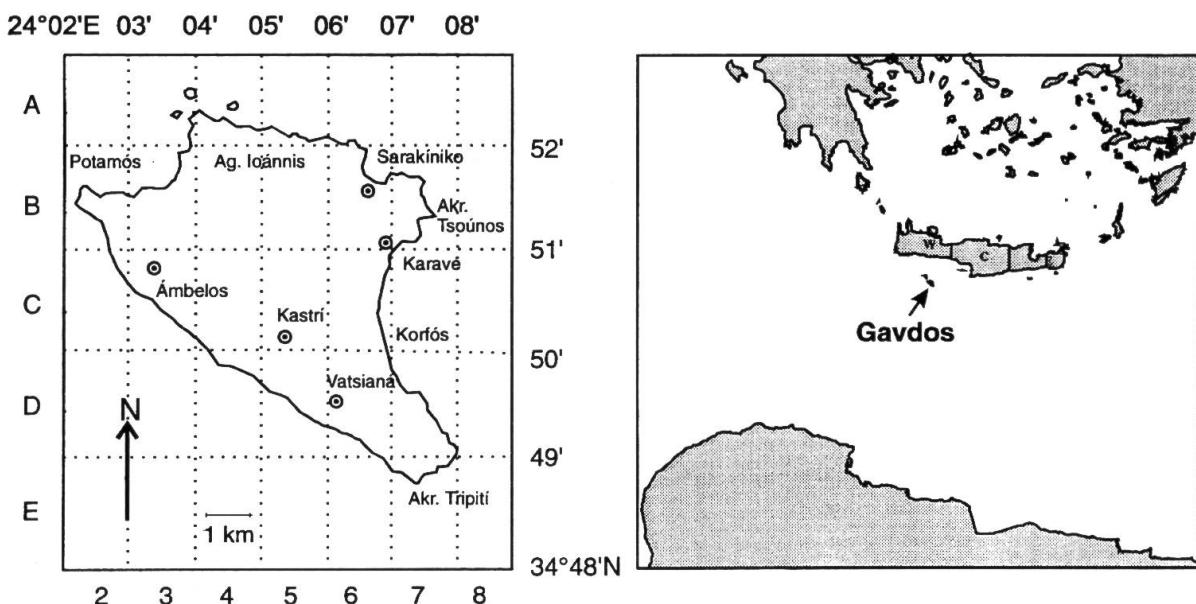


Fig. 1. – The island of Gávdos and the grid code adopted in the text for indicating localities.

B3-1 Potamós bay ($34^{\circ}51'35''N/24^{\circ}03'40''E$), alt. 0-10 m, EB 29/4/1995

B4-1 farm Periheila, at the end of the track from Kastri northward ($34^{\circ}51'00-10''N/24^{\circ}04'50-59''E$) alt. 180 m, RJ 2/4/1996

B5-1 Pot. Ag. Pavlou ($34^{\circ}51'30-40''N/24^{\circ}05'20-30''E$), alt. 60-100 m, EB 26/5/1994

B5-2 W upper part of Pot. Ag. Pavlou, 0.5-1km NNE of Ag. Pandeleímon ($34^{\circ}51'10''N/24^{\circ}05'10''E$) alt. 100-130 m, RJ 27/5/1994, 2/4/1996

B6-1 Sarakíniko bay ($34^{\circ}51'30-50''N/24^{\circ}06'30-50''E$), alt. 0-10 m, EB 23/5/1994, 27/4/1995, 30/4/1995, 3/5/1995, RJ 26–29/5/1994, 4/4/1996

B6-2 Pot. Sarakinikou, S of Sarakíniko bay ($34^{\circ}51'00-20''N/24^{\circ}06'40''E$), alt. 10-30 m, EB 23/5/1994, 27/4/1995, 3/5/1995, RJ 26–29/5/1994, 4/4/1996

B6-3 SW Sarakíniko ($34^{\circ}51'10''N/24^{\circ}06'20''E$), alt. 30 m, EB 30/4/1995, 11/4/1996

B6-4 NW Sarakíniko ($34^{\circ}51'50-52'00''N/24^{\circ}06'20-30''E$), alt. 20 m, EB 30/4/1995, 6/4/1996

B6-5 400 m W Sarakíniko bay ($34^{\circ}51'55''N/24^{\circ}06'15''E$) alt. 10 m, RJ 27/5/1994

B7-1 above Karavé bay ($34^{\circ}51'00''N/24^{\circ}07'00-10''E$), 20-50 m, EB 23/5/1994, 5/4/1996, RJ 29/5/1994, 4/4/1996

B7-2 between Karavé and Akr. Tsounos ($34^{\circ}51'10-30''N/24^{\circ}07'10-20''E$), alt. 30-80 m, EB 27/5/1994, 30/4/1995, 5/4/1996

B7-3 Karavé bay ($34^{\circ}51'55''N/24^{\circ}07'00''E$), alt. 5 m, RJ 4/4/1996

B7-4 side valley E Sarakíniko bay ($34^{\circ}51'25''N/24^{\circ}07'05''E$), alt. 30 m, RJ 4/4/1996

C3-1 Ámbelos, cultivated land and adjacent phrygana ($34^{\circ}50'25-40''N/24^{\circ}03'20-30''E$), alt. 310-330 m, EB 29/4/1995, 2/5/1995, 10/4/1996, RJ 28/5/1994, 2/4/1996

C3-2 NE slope of Fanari hill ($34^{\circ}50'30''N/24^{\circ}03'40''E$), alt. 300 m, RJ 28/5/1994

C4-1 abandoned hamlet (Frageliana) between Kastrí and Ámbelos ($34^{\circ}50'20''N/24^{\circ}04'40''E$), alt. 300 m, EB 29/4/1995, 10/4/1996, RJ 28/5/1994, 2/4/1996

C4-2 near Ag. Pandeleímon ($34^{\circ}50'50''N/24^{\circ}04'50''E$), alt. 200 m, EB 26/5/1994, 10/4/1996, RJ 2/4/1996

C5-1 Kastrí, the village and adjacent cultivated fields N of it ($34^{\circ}50'10-30''N/24^{\circ}05'10-30''E$), alt. 120-200 m, EB 24/5/1994, 7/4/1996, RJ 28/5/1994, 2/4/1996

C5-2 0.5 km SW of Kastrí ($34^{\circ}50'00/24^{\circ}05'00''E$), alt. 260 m, EB 28/4/1995

C5-3 ravine E of Kastrí ($34^{\circ}50'10''N/24^{\circ}05'20''E$), alt. 140-180 m, EB 7/4/1996

C5-4 NE of Kastrí, slope E of the ravine ($34^{\circ}50'20-30''N/24^{\circ}05'40-50''E$), alt. 100-120 m, EB 9/4/1996

C5-5 Kapanélou region, 500 m E of Ag. Pandeleímon ($34^{\circ}50'55''N/24^{\circ}05'10''E$) alt. 120 m, RJ 27/5/1994, 2/4/1996

C6-1 Spitia Papadias, above Korfos bay ($34^{\circ}50'20-55''N/24^{\circ}06'30-45''E$), alt. 40-100 m, EB 24/5/1994, 27/4/1995, 8/4/1996, RJ 26/5/1994, 1/4/1996

C6-2 2 km NE of Kastrí, near Ag. Christos ($34^{\circ}50'30-35''N/24^{\circ}06'00-20''E$), alt. 80-120 m, EB 24/5/1994, 29/4/1995, RJ 28/5/1994

C6-4 between Karavé and Sarakíniko, olive grove and roadside ($34^{\circ}50'40-51'00''N/24^{\circ}06'30''E$), alt. 50-60 m, EB 26/5/1994, 28/4/1995, 30/4/1995, RJ 1/4/1996

C6-5 Pot. Sarakíniko, between Kastrí and Karavé ($34^{\circ}50'30-55''N/24^{\circ}06'10-30''E$), 20-80 m, EB 7/4/1996, RJ 2/4/1996

C6-6 between Kastrí and Ag. Georgios, cultivated fields (34°50'00-10"N/24°06'00-30"E), 80-120 m, EB 8/4/1996, RJ 1/4/1996

CD67 Korfos bay, sandy beach and rocky coast (34°49'00-50'50"N/24°06'50-07'30"E), alt. 0-40 m, AJ 26/5/1994

D5-1 between Vatsianá and Kastrí (34°49'20-50"N/24°05'10-40"E), alt. 220-250 m, EB 24/5/1994

D5-2 W of Vatsianá (34°49'20"N/24°05'40"E), alt. 220 m, EB 1/5/1995

D56 Vatsianá, the village and adjacent cultivated fields (34°49'20"N/24°05'50-06'10"E), alt. 220 m, EB 28/4/1995, 8/4/1996

D6-1 NE-facing slope N of Vatsianá (34°49'20-50"N/24°06'00-20"E) alt. 100-200 m, EB 24/5/1994, 28/4/1995, 1/5/1995, 8/4/1996; RJ 26/5/1994, 3/4/1996

D6-3 Ag. Georgios, open woodland and cultivated fields (34°49'55"N/24°06'30"E), alt. 80 m, EB 28/4/1995, 8/4/1996, RJ 1/4/1996

D6-4 E of Vatsianá (34°49'10"N/24°06'00"E), alt. 220 m, EB 1/5/1995, RJ 26/5/1994, 3/4/1996

D6-5 small ravine above the E coast 1.25 km E of Vatsianá (34°49'25"N/24°06'55"E), alt. 80 m, RJ 3/4/1996

D6-6 Korfos bay E of Ag. Georgios (34°49'55"N/24°06'50"E), alt. 0-5 m, RJ 1/4/1996

D6-7 1 km NE Vatsianá (34°49'35"N/24°06'35"E), alt. 100 m, RJ 1/4/1996

E6-1 1 km SE Vatsianá (34°48'55"N/24°06'20"E) 240 m, RJ 26/5/1994, 3/4/1996

E7-1 S of Aliki, Limni, NE Akr. Tripítí (34°48'30/24°07'30"E), alt. 0-10 m, EB 28/4/1995, 1/5/1995, RJ 3/4/1996

E7-2 Akr. Tripítí (34°48'05"N/24°07'15-20"E), alt. 20 m, RJ 3/4/1996

PTERIDOPHYTA

Adiantaceae

Adiantum capillus-veneris L. – EB obs. B5 – rare

Aspleniaceae

Asplenium ceterach L. – EB obs. C4, C5 – rare

Gymnogrammaceae

Anogramma leptophylla (L.) Link – Dörfler 65: "Felsen bei Kastri" (C5)

Selaginellaceae

Selaginella denticulata (L.) Spring – EB, RJ obs. D6 – rare

Sinopteridaceae

Cheilanthes acrostica (Balbis) Tod. – *R & BS* 47777: “Kastri” (C5) (see also ZIMMER, 1991: 231); RJ obs. C4 – rare

GYMNOSPERMAE*Cupressaceae*

Juniperus macrocarpa Sm. – *Dörfler* 626: “besonders an der Nordküste”; *Rechinger* 13665: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 7 and 28, and BORATYNNSKI & al., 1992: 134); *EB & UM* 3450 (17/7/1993): B6; EB, RJ obs. B7, C3, C4, C6, E7; EB obs. A4, A6, B3, B4, D5; RJ Photo: B5-2; RJ obs. B6, C5, D6 – common

Juniperus phoenicea L. – *Dörfler* 110: “bei Xenakis” (D45); *Rechinger* 13662: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: 65, table 11, and BORATYNNSKI & al., 1992: 136); EB, RJ obs. B7, C3, C5, C6, D6, E7; EB obs. A4, A5, A6, C4, D5; RJ obs. B5, B6, E6 – common

Pinaceae

Pinus brutia Ten. – *Dörfler* 627 (“*P. halepensis*”): “meist nur ca. 2 m hohe Sträucher”; *Rechinger* 13640: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 7 and 11, the indication of *P. halepensis* in table 7 is doubtlessly erroneous); EB, RJ obs. B6, C3, C4, C5, C6, D6; EB obs. A4, B4, D5, E7; RJ Photo: B5-2; RJ obs. E6 – common

DICOTYLEDONES*Acanthaceae*

Acanthus spinosus L. – EB obs. C5 – rare

Aizoaceae

Aizoon hispanicum L. – *R & BS* 47710: “Along the road from the harbour to Kastri” (BC6); *EB & AJ* 94-34: C6-1; *RJ* 960401-16: C6-1; EB obs. C5 – very scattered

Population size depends very much on sufficient rainfall; after the dry winter of 1994/95 no plants occurred in 1995, but in 1994 and 1996 many individuals were found in several localities. The indication for Gávdos of “*Zygophyllum album*” by RJ in JAHN & SCHÖNFELDER (1995) is erroneous due to confusion with this species.

Mesembryanthemum nodiflorum L. – *EB & AJ* 94-78: D5-1; *EB & AJ* 94-118: CD67; *EB* 95-73: E7-1; *RJ* 960403-14: E7-1; EB obs. C5 – scattered

Anacardiaceae

Pistacia lentiscus L. – *Rechinger* 13652: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 178); EB, RJ obs. B7, C3, C6, E7; EB obs. A4, A6, B4, C4, D5; RJ obs. B5, C5, D6 – common

Apocynaceae

Nerium oleander L. subsp. ***oleander*** – *Rechinger* 13641: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28, and BORATYNSKI & al., 1992: 161); EB, RJ obs. B6, EB obs. A4, B4, B5 – scattered

Asclepiadaceae

Periploca angustifolia Labill. – *Rechinger* 13647: “sandige Hügel am Kap Tsuno” (B7) (see also GREUTER, 1973: 54 and RECHINGER & RECHINGER-MOSER, 1951: tables 11 and 28, and BORATYNSKI & al., 1992: 167); R & BS 47768: “3 km S of Kastri” (D5); R & BS 47801: “Kastri. The ravine at the church” (C5); EB & AJ 94-87: C5-1; RJ 940529-10: B7-3; EB, RJ obs. E7; EB obs. B6; RJ obs. D6 – scattered

Berberidaceae

Leontice leontopetalum L. subsp. ***leontopetalum*** – *Dörfler* 4: “Äcker bei Ambelos” (C3) – almost certainly extinct

Boraginaceae

Anchusa aegyptiaca (L.) DC. – *Dörfler* 84 (“*A. variegata*”): “Karstfelsen am Kap Kamarela” (E7); R & BS 47741: “2–4 km S–SW of Kastri” (D5); EB 96-84: C6-6; EB obs. C5 – rare

(*Anchusa variegata* (L.) Lehm.) – *Dörfler* 84: belongs to *A. aegyptiaca* (GREUTER, 1965: 210)

Echium arenarium Guss. – EB & AJ 94-43: C6-1; EB 96-43: A4-1; RJ obs. E7 – scattered

Buglossoides arvensis (L.) I. M. Johnston – *Dörfler* 1135 (*Lithospermum arvense* L.): “unter Saaten bei Kastri” (C5); EB & AJ 94-49: C6-1; RJ 960401-62: D6-3; EB obs. C3, C5 – scattered

Neatostema apulum (L.) I. M. Johnston – *Dörfler* 1150 (*Lithospermum apulum* L.): “Karstboden”; R & BS 47723: “W of Kastri” (C4); EB & AJ 94-57: C6-1; EB 96-34: B6-4; RJ 960401-59: C6-1; RJ 960401-66: C6-6; EB obs. C3; RJ obs. C4, C5 – scattered

Cactaceae

[*Opuntia ficus-indica* (L.) Miller] – EB obs. C5, C6 (each single plants which represent relicts of cultivation)

Callitrichaceae

Callitricha pulchra Schotsman – Dörfler 45 (“*C. truncata* Guss.”): “in Wasserlachen bei Kastri”; EB 96-108: C4-1; RJ 960401-67: D6-7; RJ 960402-16: C4-1 – rare

For the taxonomy of the present species see SCHOTSMAN (1967). This Mediterranean endemic is correctly stated as being confined to Gávdos and Cyrenaica by COOK (1983: 550) but the respective dot in the distribution map is misplaced (1983: 568), and *C. truncata* subsp. *occidentalis* is erroneously given as present on Gávdos (map on p. 551).

Campanulaceae

Campanula erinus L. – Dörfler 97: “Karstboden an der Südküste”; EB, RJ obs. C4, C5, C6; EB obs. C3, E7; RJ obs. B7 – rather common

Legousia hybrida (L.) Delarbre – Dörfler 61 (*Specularia hybrida* DC.): “unter Saaten bei Kastri” (C5); EB 96-90 (white petals): D56; EB 96-101 (blue petals): C3-1 – scattered

Capparaceae

Capparis spinosa L. subsp. *rupestris* (Sm.) Nyman – EB & AJ 94-88: C5-1; EB obs. also in natural habitats: C5-3 – rare

Caryophyllaceae

Agrostemma githago L. – EB obs. C5 – rare

Arenaria leptoclados (Reichenb.) Guss. – EB 96-45: A4-1; RJ 960404-03: B7-4 – scattered

Arenaria muralis (Link) Sprengel – R & BS 47773b: “3 km S of Kastri” (D5); R & BS 47778: “Kastri. The ravine at the church” (C5) (CARLSTRÖM, 1986: 362)

Cerastium glomeratum L. – EB 96-62: A4-1 – rare

Herniaria cinerea DC. – EB 95-41: C6-1; EB & AJ 94-123: C4-2; RJ 940527-07: A5-1; RJ 960401-25: C6-1; EB obs. C3 – scattered

Minuartia hybrida (Vill.) Schischkin subsp. ***hybrida*** – *R & BS* 47869: “Sarakiniko” (B6); *EB* 95-46: C6-1 – scattered

Minuartia mediterranea (Link) K. Maly – *Dörfler* 1138: “Karstboden bei Kastri”; *RJ* 960401-31: C6-1; *RJ* 960402-11: C3-1 – scattered

Petrorhagia dubia (Rafin.) G. López & Romo – *Dörfler* 1137 (*Kohlrauschia velutina* (Guss.) Rchb.): “unter Saaten bei Kastri” (C5); *R & BS* 47806: “1–4 km NW of Kastri” (BC45); *EB* obs. D56, C5; *RJ* obs. C4 – scattered

Polycarpon tetraphyllum (L.) L. – *Dörfler* 37 (var. *diphyllum* (Cav.) DC.): “Karstboden bei Vathyana” (D56); *EB* 95-14: B6-2; *RJ* 960401-34: C6-1; *EB* obs. A4, C4 – scattered

Dörfler’s specimen and *EB* 95-14 belong to subsp. ***diphyllum*** (Cav.) O. Bolós & Font Quer.

Sagina maritima G. Don – *R & BS* 47817: “Small stream near the NW point” (A4); *EB* 95-170: A4-1; *EB* 96-39: A4-1; *EB* obs. C4, C5, D6 – scattered

Silene behen L. – *Dörfler* 56: “unter Saaten bei Kastri” (C5); *EB* 96-67: C6-6; *EB* obs. C5, D5 – rare

Silene colorata Poiret subsp. ***colorata*** – *Dörfler* 12: “Dünen an der Nordküste”; *R & BS* 47842: “The NW point” (A34); *EB* & *AJ* 94-1: B6-1; *EB* & *AJ* 94-96: A4-1; *EB* 95-30: B6-1; *EB*, *RJ* obs. B7 – scattered

Silene fruticosa L. – *R & BS* 47798: “Kastri. The ravine at the church” (C5)

Silene gallica L. – *EB* 96-103: C3-1 – rare

Silene nocturna L. – *Dörfler* 43: “Karstboden”; *R & BS* 47792b: “Kastri. The ravine at the church” (C5); *EB* 95-91: C3-1; *RJ* 940526-28: D6-4; *EB*, *RJ* obs. C5; *EB* obs. C6, D6; *RJ* obs. C4 – scattered

Silene sedoides Poiret subsp. ***sedoides*** – *EB* & *AJ* 94-15: B6-1; *EB* 95-81: E7-1; *RJ* 960403-17: E7-2; *EB* obs. A4, B3 – scattered

The taxonomy follows OXELMAN (1995).

Silene succulenta Forssk. subsp. ***succulenta*** – *Rechinger* 13544: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); *R & BS* 47840: “The NW point” (A34); *R & BS* 47866: “Sarakiniko” (B6); *EB* & *AJ* 94-5: B6-1; *EB* obs. A4 – rare, locally frequent

Silene vulgaris (Moench) Garcke subsp. *macrocarpa* Turrill – *Rechinger* (leg. Herzog) 13670 (*Silene cucubalus* Wib. subsp. *angustifolia* (Guss.) Rech. fil.): “beim Dorf Ambelos” (C3); *R & BS* 47766: “2–4 km S–SW of Kastri” (D5); *EB* 95-66: D56; *EB*, *RJ* obs. C5; *EB* obs. C3, C6 – scattered

Spergularia bocconeii (Scheele) Asch. & Gr. – *EB* 95-149: E7-1; *EB* obs. C4, C5 – very scattered

Spergularia diandra (Guss.) Boiss. – *Dörfler* 30: “Kulturboden bei Vathyana” (D56); *R & BS* 47685: “Along the road from the harbour to Kastri” (BC6); *R & BS* 47825: “Small stream near the NW point” (A4); *EB & AJ* 94-4: B6-1; *EB & AJ* 94-62: C6-1; *EB* 96-s.n.: B7-2; *RJ* 960401-38: C6-1; *EB* obs. C5; *RJ* obs. B4 – scattered

Stellaria pallida (Dumort.) Murb. – *EB* 96-107: C4-1; *EB* obs. A4 – rare

For correct author’s citation see MILL (1996).

Chenopodiaceae

Beta adanensis Aellen – *R & BS* 47816: “1–4 km NW of Kastri” (BC45)

Chenopodium album L. – *EB & AJ* 94-35: C6-1; *EB* 95-142: D56 – rare

Chenopodium murale L. – *Dörfler* 1139: “Kulturboden bei Vathyana” (D56); *EB*, *RJ* obs. C6; *EB* obs. C5, D6 – scattered

Salsola kali L. subsp. *kali* – *AJ*, *RJ* obs. B6-1, CD67 – rare

Cistaceae

Cistus creticus L. – *Dörfler* 106 (“*C. villosus* L.”): “Karstboden” (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNISKI & al., 1992: 58 as “*Cistus incanus* L.”); *EB & UM* 3447: B6; *EB*, *RJ* obs. B7, C3, C4, C6, D6; *EB* obs. A4, A6, C5, D5, E7; *RJ* obs. B5, E6 – common

Cistus parviflorus Lam. – *Dörfler* 104: “Karstboden”; *Rechinger* 13656: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNISKI & al., 1992: 61); *EB & UM* 3449: B6; *EB*, *RJ* obs. B7, C3, D6; *EB* obs. A4, A6, C4, C5, E7; *RJ* Photo: C5-1, *RJ* obs. B5, C6, E6 – common

Cistus salviifolius L. – *Dörfler* 105: “Karstboden” (see also BORATYNISKI & al., 1992: 62); *EB & UM* 3448: B6; *EB*, *RJ* obs. C3, C6, D6; *EB* obs. C4, C5, D5, E7; *RJ* Photo: C5-1, *RJ* obs. B5, B7, E6 – common

***Fumana arabica* (L.) Spach** – Dörfler 90: “Karstboden an der Südküste”; Rechinger 13667b: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11); R & BS 47681: “Along the road from the harbour to Kastri” (BC6); R & BS 47740: “2–4 km S–SW of Kastri” (D5); EB, RJ obs. C3, D6; EB obs. B7, C5, E7; RJ Photo: D6-1; RJ obs. C6, E6 – rather common

***Fumana thymifolia* (L.) Webb** – Dörfler 101: “Karstboden an der Südküste”; Rechinger 13667a (“var. *laevis* (Cav.) Grosser”): “sandige Hügel am Kap Tsuno” (B7); EB, RJ obs. B6, B7, C3, C5; EB obs. A6, E7; RJ obs. B5, C6, E6 – common

***Helianthemum stipulatum* (Forssk.) C. Chr.** – EB & AJ 94-132: B7-2; EB 95-140: B6-3 – rare

***Tuberaria guttata* (L.) Fourr. s.l.** – EB obs. A4, B6, B7; RJ obs. B5 – scattered

Plants with cleistogamous flowers and small rosettes were seen as well as plants with open flowers.

Compositae

***Aetheorhiza bulbosa* (L.) Cass. subsp. *microcephala* Rech. fil.** – R & BS 47809: “1–4 km NW of Kastri” (BC45); RJ 960402-19a: C5-1; EB, RJ obs. B7, C6, D6, E7; EB obs. A4, B4, B6, C3, C4, D5 – common

***Anthemis chia* L.** – EB 96-61: C5-1 (specimens belong to f. *inornata* Greuter & al.) – very scattered

Anthemis rigida* Heldr. subsp. *rigida – Dörfler 40 (“*A. cretica*”): “auf Karstboden”; EB 95-78: E7-1; EB, RJ obs. C5; EB obs. A4; RJ obs. B4, C6 – rather common

***Artemisia herba-alba* Asso** – R & BS 47688: “Along the road between the harbour and Kastri” (C6) (GREUTER, MATTHÄS & RISSE, 1984: 271); EB & AJ 94-82: C6-2; RJ 940528-08: C6-2; RJ Photo: C5 – rare

***Asteriscus spinosus* (L.) C. H. Schultz** – EB obs. D5; RJ obs. C5 – rare

Atractylis cancellata* L. subsp. *cancellata – Dörfler 28: “Karstfelsen bei Vathyana” (D56); EB, RJ obs. C4, C6; RJ obs. C5, D6 – rather common

***Bellis annua* L.** – EB 96-111: C4-2 – rare

***Bellium minutum* (L.) L.** – Dörfler 77: “Felsen am Kap Kamarela, sehr selten” (E7); R & BS 447846: “The NW point” (A34); EB 95-84: E7-1; EB obs. A4, B3, B7 – scattered

Calendula arvensis L. – Dörfler 62: “Karstboden bei Kastri”; EB 95-92: C3-1; EB 96-99: C3-1; EB obs. D5, D6; RJ obs. C4 – scattered

Carduncellus caeruleus (L.) C. Presl – R & BS 47696: “Along the road from the harbour to Kastri” (C5); EB & AJ 94-86: C5-1; EB obs. C3 – rare, locally frequent

Carduus pycnocephalus L. – Dörfler 89: “Karstfelsen am Kap Kamarela” (E7); EB obs. C3, C5; RJ obs. C6 – scattered

Carlina graeca Heldr. & Sart. – EB, RJ obs. C3, C5; EB obs. D6, E7; RJ obs. C4, C6 – common

Carthamus leucocaulos Sm. – EB & AJ 94-130: C6-4; EB obs. C5; RJ obs. D6 – scattered

The specimen mentioned above was erroneously assigned to *C. boissieri* Hal. in BERGMEIER & MATTHÄS (1995).

Centaurea melitensis L. – R & BS 47767: “2–4 km S–SW of Kastri” (D5); EB & AJ 94-39: C6-1; RJ 940526-10: C6-6; EB obs. C5 – rare, locally frequent

Chlamydophora tridentata (Delile) Less. – Dörfler 1: “Karstfelsen und Meeresküste am Kap Kamarela” (E7); EB 95-72: E7-1; EB 96-113: C5-1; RJ 960401-58: C6-1; RJ 960401-70: D6-6; EB obs. A4, B3 – scattered

Chrysanthemum coronarium L. – Dörfler 46: “unter Saaten bei Kastri” (C5); EB, RJ obs. C6; EB obs. C3, C5, D5, D6; RJ Photo: D6-4; RJ obs. C4 – scattered, locally abundant

Chrysanthemum segetum L. – Dörfler 47: “unter Saaten bei Kastri” (C5); EB, RJ obs. C5 – rare, locally frequent

Cichorium endivia L. subsp. ***divaricatum*** (Schousboe) P. D. Sell – EB & AJ 94-31: C6-1; EB 95-29: B6-2; EB obs. C3 – scattered

Cichorium spinosum L. – AJ obs. A4; EB, RJ obs. E7; RJ obs. D6 – rare, locally frequent

Crepis cretica Boiss. – Dörfler 7: “sandiger Boden unweit Sarakiniko” (B6); R & BS 47721: “W of Kastri” (C4); RJ 940529-02: B7-1; RJ 960404-02: B7-1; EB, RJ obs. C4; EB obs. C3, E7; RJ obs. B5, C5, D6 – common

Crepis multiflora Sm. – R & BS 447852: “The NW point” (A34); EB & AJ 94-113: CD67; EB 95-120: B3-1; RJ 940526-33: E6-1; RJ 960404-01: B7-3; EB obs. A4 – scattered

Crepis pusilla (Somm.) Merxm. – EB 96-37: A4-1; RJ 960401-21: C6-1; EB obs. C4 – very scattered

Crepis tybakiensis Vierh. – EB 95-86: C5-2; EB, RJ obs. B7; RJ obs. D6 – scattered

Crupina crupinastrum (Moris) Vis. – R & BS 47790: “Kastri. The ravine at the church” (C5); EB 95-141: D6-1; RJ obs. C5 – scattered

Cynara cornigera Lindley – R & BS 47715: “W of Kastri” (C4); EB & AJ 94-67: D6-1; EB obs. C3; RJ obs. C4, C5; also recorded from Gavdopoúla (WELTER-SCHULTES, 1995) – scattered

Dittrichia viscosa (L.) Greuter – EB obs. B5 – rare

Filago aegaea Wagenitz subsp. *aristata* Wagenitz – Rechinger 13671 (“*F. spathulata* var. *siria*”): “sandige Hügel am Kap Tsuno” (B7) (WAGENITZ, 1970: 130; GREUTER, 1973: 59); R & BS 47803b: “1 km NW of Kastri” (C45); R & BS 47835: “The NW point” (A34); R & BS 47867: “Sarakiniko” (B6); EB & AJ 94-108: A4-1; EB 95-15: B6-2; RJ 940526-05: C6-1; RJ 940526-14: D6-1; RJ 960401-09: C6-4; EB, RJ obs. B7, C3, C5; EB obs. A5, A6, E7; RJ obs. B4, B5, E6 – common

Filago contracta (Boiss.) Chrtek & Holub – R & BS 47734: “2–4 km S–SW of Kastri” (D5); R & BS 47803c: “1 km NW of Kastri” (C45); EB 95-114: C3-1; EB 96-54: C5-1; RJ 960401-23: C6-1; EB obs. D6 – scattered

Filago cretensis Gand. – EB 96-40: A4-1; EB 96-106: C4-1 – rare

The small collection EB 96-106 belongs to subsp. *cretensis*, whereas EB 96-40 matches subsp. *cycladum* Wagenitz which is known hitherto only from the Cyclades and the Karpathos archipelago where it is chiefly found on smaller islands (WAGENITZ, 1970: 125f.). Few specimens in this collection are transitional between the two subspecies. Such forms were already mentioned by WAGENITZ (1970).

Filago eriocephala Guss. – EB & AJ 94-122: C4-2 – rare

Filago gallica L. – R & BS 47709b: “Along the road from the harbour to Kastri” (BC6); R & BS 47832: “The NW point” (A34); EB obs. B6, C6; RJ obs. C5 – scattered

Filago pyramidalis L. – Dörfler 87 (*F. spathulata* Presl): “Karstboden bei Kap Kamarela”; R & BS 47720: “W of Kastri” (C4); R & BS 47751: “2–4 km S–SW of Kastri” (D5); EB & AJ 94-52: C6-1; EB 95-3: B6-2; RJ 960401-24: C6-1; EB, RJ obs. C5; EB obs. A4, C3, D6 – rather common

Geropogon hybridus (L.) C. H. Schultz – EB & AJ 94-125: C6-4 – rare

Hedypnois rhagadioloides (L.) F. W. Schmidt subsp. ***rhagadioloides*** (incl. *H. tubaeformis* Ten.) – Dörfler 15 (“*H. cretica* (L.) Willd.”): “Dünen an der Nordküste”; Dörfler 98 (“*H. tubaeformis* Ten.”): “Südküste”; EB obs. A4, B5, B6, C3, C5, D6; RJ obs. B7, C4 – rather common

Hedypnois rhagadioloides (L.) F. W. Schmidt subsp. ***monspeliensis*** (Murb.) Hayek – EB obs. A4, B4, E7; RJ obs. C3, C4, C5, C6 – common

Helichrysum conglobatum (Viv.) Steudel – R & BS 47822: “Small stream near the NW point” (A4); EB & AJ 94-66: D6-1; EB & AJ 94-94: A4-1; EB 95-118: B3-1; EB obs. B6, C5, C6 – scattered

Hyoseris scabra L. – Dörfler 86: “Karstboden”; RJ 960401-27: C6-1; EB, RJ obs. C5; EB obs. C3, D5 – scattered

Hypochaeris achyrophorus L. – Dörfler 1157 (*Hypochoeris aethnensis* (L.) Bentham & Hook.): “Sandboden”; EB, RJ obs. B7, C5, D6; EB obs. C3, E7; RJ obs. C4, C6 – common

Lactuca serriola L. – EB, AJ obs. B7 – rare

Lamyropsis cynaroides (Lam.) Dittrich – EB, RJ obs. C4; EB obs. C5; RJ obs. C6, D6 – scattered

Leontodon tuberosus L. – Dörfler 1156: “Karstboden”; EB, RJ obs. C3, C4, C5, D6; EB obs. B7, D5, E7; RJ obs. B5, C6 – common

Matricaria aurea (L.) Schultz Bip. – EB 96-112: C4-2; RJ 960402-09: B4-1 – rare, but locally frequent

New to Greece.

Onopordum tauricum Willd. – R & BS 47856: “2–4 km N of Kastri” (BC5)

Phagnalon graecum Boiss. & Heldr. – Dörfler 88 (*Ph. rupestre* (L.) DC. subsp. *graecum* (Boiss. & Heldr.) Hayek): “Karstboden bei Kap Kamarela” (E7); Rechinger 13649: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11); R & BS 47686: “Along the road from the harbour to Kastri” (BC6); EB, RJ obs. B7, C3, D6; EB obs. B4, B6, E7; RJ obs. B5, C4, C5, C6, E6 – common

Reichardia picroides (L.) Roth – EB & AJ 94-100: A4-1 – rare

Rhagadiolus stellatus (L.) Gaertner – Dörfler 59 (*Rh. stellatus* (L.) Willd. var. *edulis* (Gaertn.) DC. f. *hebelaenus* DC.): “unter Saaten bei Kastri” (C5); EB 96-66: C5-1; EB obs. C3, C6 – scattered

For the synonymy of the name applied by VIERHAPPER & RECHINGER (1935) to Dörfler’s specimen see MEIKLE (1979), and the key provided by RECHINGER (1943).

Senecio leucanthemifolius Poiret var. *pygmaeus* (DC.) Fiori – EB 95-116: B3-1; RJ 960401-72: D6-6; EB obs. A4; RJ obs. B5 – scattered

Records of *S. gallicus* from Crete and the Karpathos island group either belong here (W Kríti) or to var. *leucanthemifolius* (E Kríti, Karpathos group) (see ALEXANDER, 1979).

Senecio vulgaris L. – EB, RJ obs. C6; EB obs. C3, D6; RJ obs. B4, C4, E7 – rather common

Sonchus oleraceus L. – EB & AJ 94-117: CD67; EB 95-25: B6-2; EB, RJ obs. C5; EB obs. C3, D5; RJ obs. B7, C6, D6, E6 – rather common

Steptorhamphus tuberosus (Jacq.) Grossh. – RJ obs. C5; EB, RJ obs. D6 – scattered

Taraxacum sect. **Scariosa** – R & BS 47812: “1–4 km NW of Kastri” (BC45); RJ 960401-39: C6-1; EB, RJ obs. C5; EB obs. A4, B5, C3, C4; RJ obs. D6 – scattered

Tragopogon sinuatus Avé-Lall. – R & BS 47762: “2–4 km S–SW of Kastri” (D5); EB, RJ obs. D6; EB obs. D5; RJ obs. C5 – scattered

Tyrimnus leucographus (L.) Cass. – Dörfler 117: “Kulturboden bei Vathyana” (D56); R & BS 47784: “Kastri. The ravine at the church” (C5); EB & AJ 94-77: C5-1; RJ obs. D6 – scattered

Urospermum picroides (L.) F. W. Schmidt – Dörfler 1151: “Karstboden an der Südküste”; EB, RJ obs. B6, B7, C5; EB obs. A4, B4, C3, C4, E7; RJ obs. C6, D6 – common

Convolvulaceae

Convolvulus althaeoides L. – EB & AJ 94-134: C6-4; EB 95-58: D6-3; EB obs. B7, C3, D5, E7 – scattered

Convolvulus oleifolius Desr. – EB 95-147: D6-4 – rare

Cuscuta palaestina Boiss. – R & BS 47761: “2–4 km S–SW of Kastri” (D5); R & BS 47773: “3 km S of Kastri” (D5); EB & AJ 94-6: B6-2; RJ 940529-03: B7-1; EB, RJ obs. C5, D6; EB obs. B6, B7; RJ obs. B5, C3, C4, C6 – common (frequently on *Satureja thymbra* and *Globularia alypum*)

Crassulaceae

Tillaea alata Viv. – *EB* 95-171: A4-1; *EB* 96-41: A4-1; *RJ* 960401-20: C6-1; *RJ* 960401-61: D6-3; *RJ* 960402-15: C4-1; *EB* obs. C5 – scattered

Tillaea vaillantii Willd. – *Dörfler* 475: “in Wasserlachen (Karstlöchern) nächst Kastri. In eiskaltem Wasser” (see also RECHINGER & RECHINGER-MOSER, 1951: 190); *EB* 95-168: A4-1; *EB* 96-22: B7-2; *RJ* 960401-68: D6-7; *EB* obs. C4, C5, D5 – scattered

According to TURLAND & al. (1993) there is no post-1930 record for the Cretan area.

Sedum creticum C. Presl – *RJ* 960403-18: D6-5; *EB* obs. C5; *RJ* obs. C4 – rare

Sedum litoreum Guss. subsp. ***litoreum*** – *Dörfler* 472 (“*S. rubrum* (L.) Thell.”): “Karstfelsen unweit Kap Kamarela” (E7) (for the identity of the specimen see RUNEMARK & GREUTER, 1981: 20 and GREUTER, MATTHÄS & RISSE, 1984: 276); *R & BS* 47776: “Kastri. The ravine at the church” (C5); *EB* 95-44: C6-1; *EB* 96-26, 96-98: C5-4; *RJ* 940527-04: B5-2; *RJ* 940528-05: C5-1; *RJ* 960401-55: C6-1; *EB*, *RJ* obs. C4; *EB* obs. A4 – rather common

Sedum rubens L. subsp. ***rubens*** – *R & BS* 47726: “W of Kastri” (C4) (CARLSTRÖM, 1985: 112, “*S. delicum* (Vierh.) Carlström”); *EB* 95-45: C6-1; *RJ* obs. C4, D6 – scattered

Sedum sediforme (Jacq.) Pau – *Rechinger* (leg. Herzog) 13661 (“*S. altissimum* Poir.”): “bei Ambelos” (C3); *R & BS* 47803: “Kastri. The ravine at the church” (C5); *RJ* obs. B5 – rare

Umbilicus horizontalis (Guss.) DC. – *R & BS* 47787: “Kastri. The ravine at the church” (C5); *EB* 95-100: C4-1; also in natural habitats at the eastern Korfos bay cliff coast, AJ obs. – rare

Cruciferae

Biscutella didyma L. – *Dörfler* 55 (“var. *ciliata* (DC) Hal.”): “unter Saaten bei Kastri” (C5); *Dörfler* 1133 (“var. *columnae* (Ten.) Hal.”): “unter Saaten bei Xenakis” (D45); *EB*, *RJ* obs. C6; *EB* obs. B6, C3, C4, C5, D5, D6 – rather common

Cakile maritima Scop. – *R & BS* 47843: “The NW point” (A3); *EB* & *AJ* 94-20: B6-1 (cf. subsp. *aegyptiaca* (Willd.) Nyman) – rare, locally frequent

Capsella bursa-pastoris (L.) Medicus – *EB* obs. A4, C5; *RJ* obs. C4; C6 – scattered

Clypeola jonthlaspi L. – *Dörfler* 91 (subsp. *petraea* (Jordan & Fourreau) Vierh.): “Karstboden an der Südküste”; *R & BS* 47750: “2–4 km S–SW of Kastri” (D5); *EB* obs. A4, C4, C5; *RJ* obs. C6 – scattered

Didesmus aegyptius (L.) Desv. – *Dörfler* 96 (*Rapistrum aegyptium* (L.) Baill.): “Karstboden an der Südküste”; *R & BS* 47795: “Kastri. The ravine at the church” (C5); *EB & AJ* 94-30: C6-1; *EB* 95-110: C3-1; *EB, RJ* obs. C5 – scattered

Diplotaxis viminea (L.) DC. – *Dörfler* 93: “Karstboden an der Südküste”; *R & BS* 47687: “Along the road from the harbour to Kastri” (B6); *R & BS* 47815: “1-4 km NW of Kastri” (B4); *EB & AJ* 94-8: B7-1; *RJ* 960401-05: C6-4 – scattered

Erophila praecox (Steven) DC. – *EB* 96-109: C4-1; *RJ* 940526-24: D6-4; *RJ* 960401-22: C6-1; *RJ* 960402-12: C3-1; *EB* obs. A4 – scattered

Hirschfeldia incana (L.) Lagr.-Foss. – *EB, RJ* obs. C6; *EB* obs. C3 – rare

Hymenolobus procumbens (L.) Torr. & A. Gray – *R & BS* 47841: “The NW point” (RAUS, 1990: 36); *EB* 95-85: E7-1; *RJ* 960403-12: E7-1 – rare

Malcolmia africana (L.) R. Br. – *RJ* 960401-12: C6-4 – rare

Malcolmia chia (L.) DC. – *Dörfler* 72 (var. *xerophila* Vierh.): “Karstboden bei Kastri”; *Dörfler* 72a (var. *xerophila* Vierh.): “Dünen bei Sarakiniko” (B6)

Malcolmia flexuosa (Sm.) Sm. subsp. ***naxensis*** (Rech. fil.) A. Stork – *EB & AJ* 94-101: A4-1; *EB & AJ* 94-112: CD67; *EB* 95-117: B3-1; *RJ* 960403-15: E7-2 – scattered

Malcolmia nana (DC.) Boiss. – *EB & AJ* 94-17: B6-1; *RJ* 960404-04: B7-4; *EB* obs. A4-1 – rare

Raphanus raphanistrum L. – *EB* obs. C3, C6 – rare

Sinapis alba L. subsp. ***mairei*** (H. Lindb. fil.) Maire – *R & BS* 47690: “Along the road from the harbour to Kastri” (BC6); *EB & AJ* 94-24: B6-2; *EB* obs. C5; *RJ* obs. C6 – scattered

Sinapis arvensis L. subsp. ***arvensis*** – *R & BS* 47747: “2–4 km S–SW of Kastri” (D5); *EB* 95-112: C3-1; *EB* 96-56: C6-5; *EB* obs. D5, D6 – scattered, locally frequent

Sisymbrium officinale L. – *EB* obs. C6 – rare

Sisymbrium orientale L. – *EB* 95-111: C3-1; *EB, RJ* obs. C6; *EB* obs. D5 – scattered

Thlaspi perfoliatum L. – *EB & AJ* obs. C5 – rare

Dipsacaceae

Pterocephalus plumosus (L.) Coulter – *R & BS* 47730: “W of Kastri” (C4); *RJ* obs. C5 – rare

Ericaceae

Erica manipuliflora Salisb. – *Rechinger* 13663: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 100); *EB*, *RJ* obs. B6, B7, C3; *EB* obs. A6, C4, C5, E7; *RJ* obs. B5, C6 – common

Euphorbiaceae

Euphorbia exigua L. – *Dörfler* 13: “Sandboden”; *R & BS* 47718: “W of Kastri” (C4); *R & BS* 47753: “2–4 km S–SW of Kastri” (D5); *EB & AJ* 94-10: C6-1; *EB & AJ* 94-99: A4-1; *RJ* 960401-07: C6-4; *EB*, *RJ* obs. D6; *EB* obs. A6, C3, E7; *RJ* obs. B7, C5 – common

Euphorbia helioscopia L. – *EB* obs. C3, C5 – rare

Euphorbia paralias L. – *EB* obs. B6, CD67 – rare

Euphorbia peplis L. – *Rechinger* 13665: “an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 28 and 29); *EB & UM* 3523: B6; *EB & AJ* 94-104: A4-1 – rare

Euphorbia peplus L. – *EB* 95-13: B6-2; *EB* 96-48: A4-1; *RJ* 960401-08: C6-4; *EB*, *RJ* obs. B7; *EB* obs. C3, D6; *RJ* obs. C5 – common

Mercurialis annua L. – *R & BS* 47781: “Kastri. The ravine at the church” (C5); *EB*, *RJ* obs. C5; *RJ* obs. D6 – scattered

Frankeniaceae

Frankenia hirsuta L. – *R & BS* 47797: “Kastri. The ravine at the church” (C5); *R & BS* 47813: “1–4 km NW of Kastri” (BC45); *EB & AJ* 94-97: A4-1; *RJ* 940527-08: A5-1; *EB*, *RJ* obs. C5, E7; *EB* obs. C6; *RJ* obs. D6 – scattered

Frankenia pulverulenta L. – *R & BS* 47845: “The NW point” (A34); *EB & AJ* 94-14: B6-2; *EB & AJ* 94-37: C6-1; *EB* 95-83: E7-1; *RJ* obs. D6 – scattered

Gentianaceae

Blackstonia perfoliata (L.) Hudson – EB 95-2: B6-2; EB, RJ obs. C5; EB obs. D5, E7; RJ obs. B5, C4, D6 – rather common

Centaurium pulchellum (Swartz) Druce – EB & AJ 94-29: B6-2 – rare

Centaurium tenuiflorum (Hoffmanns. & Link) Fritsch subsp. ***tenuiflorum*** – R & BS 47727: “W of Kastri” (C4); R & BS 47860: “Sarakiniko” (B6); EB & AJ 94-95: A4-1; RJ 940526-03: C6-1; EB, RJ obs. B7, C3, C5; EB obs. A6, E7; RJ obs. B5, B6, C4, D6 – common

Geraniaceae

Erodium botrys (Cav.) Bertol. – Dörfler 79: “Karstboden” (see also DAHLGREN, 1980, distribution map)

Erodium cicutarium (L.) L'Hér. subsp. ***bipinnatum*** (Cav.) Tourlet – EB & AJ 94-93: A4-1; EB 95-61: C6-1; EB 96-32: B6-4; EB 96-51: C6-5 – scattered

New to the Cretan area.

E. cicutarium subsp. *bipinnatum* is distinguished from subsp. *cicutarium* by the absence of a furrow below the distal pit of the mericarp, by the darker red violet (instead of lilac) petals, the less deeply incised leaflets with subobtuse pinnules and the less dense indumentum.

Erodium cicutarium (L.) L'Hér. subsp. ***cicutarium*** – EB 95-123: B6-1; EB 96-33: B6-4; RJ 940526-04: C6-1; EB obs. C3 – rather common

The following records cannot be assigned to either subspecies: Rechinger 13645: “Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28, and DAHLGREN, 1980, distribution map); R & BS 47693, 47705: “Along the road from the harbour to Kastri” (BC6); R & BS 47873: “Sarakiniko” (B6); RJ 960401-06: C6-4; RJ obs. B4, D6

Erodium gruinum (L.) L'Hér. – R & BS 47695: “Along the road from the harbour to Kastri” (BC6); EB 95-56: D6-3; RJ obs. C6 – scattered

Erodium laciniatum (Cav.) Willd. subsp. ***laciniatum*** – R & BS 47873pp: “Sarakiniko” (B6); EB 95-126: B6-1; RJ 960402-03: C5-1; EB obs. A4, B7 – scattered

Erodium malacoides (L.) L'Hér. – R & BS 47759: “2–4 km S-SW of Kastri” (D5); EB 95-60: D6-3; EB obs. C5, D56; RJ obs. B5, C4, E7 – scattered

Geranium molle L. – EB obs. C5, D6; RJ obs. C4, C6 – scattered

Geranium purpureum Vill. – EB, RJ obs. D6; EB obs. C4, C5 – scattered

Geranium rotundifolium L. – EB obs. C3, C5, D6; RJ obs. C4 – scattered

Globulariaceae

Globularia alypum L. – *Dörfler* 2: “Karstboden der Nord- und Ostküste”; *Rechinger* 13659: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 120); *R & BS* 47701: “Along the road from the harbour to Kastri” (BC6); *R & BS* 47769: “3 km S of Kastri” (D5); *EB & AJ* 94-53: C6-1; *EB, RJ* obs. B6, B7; *EB* obs. A6, C5; *RJ* obs.: B5, C3 – common

Guttiferae

Hypericum triquetrifolium Turra – *EB* obs. C3, D56 – very scattered

Labiatae

Ajuga iva (L.) Schreber – *R & BS* 47802: “Kastri. The ravine at the church” (C5); *EB & AJ* 94-13: B7-1; *RJ* 940527-05: C5-5; *RJ* 960401-17: C6-1 – scattered

According to TURLAND & al. (1993) there are no published records for Kríti since 1930.

Coridothymus capitatus (L.) Reichenb. fil. – *Dörfler* 103: “Karstboden”; *Rechinger* 13651: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 70); *EB & UM* 3521: B6; *EB, RJ* obs. B6, B7, C3, C4, C5, D6; *EB* obs. A4, A6, B4, D5, E7; *RJ* Photo: B7-4; *RJ* obs. B5, C6, E6 – common

Lamium amplexicaule L. – *EB, RJ* obs. C4, D6; *EB* obs. C5 – scattered

Marrubium vulgare L. – *EB & AJ* 94-40: C6-1; *EB* obs. B6, C5, D5 – scattered

Nepeta melissifolia Lam. – *Dörfler* 53: “Karstfelsen bei Kastri”; *R & BS* 47700: “Along the road from the harbour to Kastri” (C6); *EB & AJ* 94-63: C5-1; *RJ* 960402-13: C3-1; *EB, RJ* obs. C4; *EB* obs. C3, C6 – scattered, locally frequent

Phlomis fruticosa L. – *R & BS* 47788: “Kastri. The ravine at the church” (C5); *EB* obs. C5 – rare

Prasium majus L. – *Dörfler* 100 (f. *creticum* Hausskn.); *EB, RJ* obs. B6, C3, C6, D6; *EB* obs. A4, A6, B4, B7, C4, E7; *RJ* obs. E6 – common

Salvia verbenaca L. – *EB* 95-59: C6-1; *EB, RJ* C5; *EB* obs. C3, D5 – scattered

Salvia viridis L. – *Dörfler* 29: “Karstfelsen bei Vathyana” (D56); *EB* 96-74: D6-1 – rare

Satureja nana (P. H. Davis & Doroszenko) R. Jahn – EB obs. D6 – rare

Satureja nervosa Desf. – R & BS 47689: “Along the road from the harbour to Kastri” (BC6); R & BS 47735: “2–4 km S–SW of Kastri (D5); EB & AJ 94-45: C6-1; EB 96-55: C6-5; EB, RJ obs. C3, C5; EB obs. E7; RJ obs. D6 – rather common

Satureja thymbra L. – Dörfler 64: “Karstboden bei Kastri” (see also BORATYNSKI & al., 1992: 243); R & BS 47697: “Along the road from the harbour to Kastri” (BC6); R & BS 47719: “W of Kastri” (C4); EB, RJ obs. C4, C5; EB obs. A4, B4, B6, C3, C6, E7; RJ obs. B5 – common

Sideritis curvifrons Stapf – Dörfler 24 (“*S. romana* L. subsp. *eu-romana* Hay.”): “Karstboden bei Kastri”; EB 95-43: C6-1; EB, RJ obs. B7, C5; EB obs. A4, C3; RJ obs. C4 – scattered

Teucrium brevifolium Schreber – Dörfler 85: “an Felsen unweit Kap Kamarela” (E7); EB 95-121: B6-4; RJ 940527-02: B6-5; EB, RJ obs. E7; EB obs. A6, B7; RJ obs. C6 – scattered

Teucrium divaricatum Heldr. subsp. ***divaricatum*** – EB & AJ 94-128: C6-4 (single plant at a fenced olive grove, not observed after 1994; possibly adventive)

Teucrium microphyllum Desf. – EB, RJ obs. C3, D6; EB obs. A6, E7 – scattered

Leguminosae

Anagyris foetida L. – EB 95-161: C3-1; EB obs. C5 – rare

Anthyllis hermanniae L. – Rechinger 13666: “sandige Hügel am Kap Tsuno” (B7) “und auf Schiefer obs.” (RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 24); EB, RJ obs. B7, C3, C6; EB obs. B6, C4, C5, E7; RJ Photo: C6-1; RJ obs. E6 – common

Astragalus epiglottis L. subsp. ***epiglottis*** – EB 96-114: B6-3 – rare

New to Kríti.

Astragalus hamosus L. – R & BS 47709: “Along the road from the harbour to Kastri” (BC6); EB 95-39: C6-1; EB obs. A4, C3, D5; RJ obs. B5; D6 – scattered

Astragalus sinaicus Boiss. – EB & AJ 94-131: B6-1; EB 95-128: B7-2; RJ 960401-64: C6-6; EB obs. A4 – very scattered

Bituminaria bituminosa (L.) C. H. Stirton – EB, RJ obs. C5, E7 – scattered

Calicotome villosa (Poiret) Link – EB obs. AB5 – rare

Ceratonia siliqua L. – Rechinger obs. (see also RECHINGER & RECHINGER-MOSER, 1951: table 11, and BORATYNSKI & al., 1992: 52); EB, RJ obs. D6; EB obs. C3, C6, E7 – scattered

Chiefly but not exclusively found close to (formerly) cultivated places.

Coronilla scorpioides (L.) Koch – Dörfler 60: “unter Saaten bei Kastri” (C5); R & BS 47714: “Along the road from the harbour to Kastri” (BC6); EB & AJ 94-55: C6-1; EB 95-137: C6-4; EB, RJ obs. C3, C5, D6; EB obs. C6, D5; RJ obs. B5, B7 – common

Dorycnium hirsutum (L.) Ser. – Dörfler 102 (var. *hirtum* (Jord. & Fourr.) Rikli): “Karstboden bei Sarakiniko” (B6); R & BS 47713: “Along the road from the harbour to Kastri” (BC6); EB & AJ 94-129: C6-4; RJ 940528-03: B6-2; EB obs. C3, C4; RJ obs. B5, C5, D6 – scattered

Hedysarum spinosissimum L. – R & BS 47708: “Along the road from the harbour to Kastri” (BC6); EB 1995-5: B6-2; EB, RJ obs. C5; EB obs. A4, B7, C3, E7; RJ obs. C6, D6 – rather common

Hippocrepis biflora Sprengel – R & BS 47758: “2–4 km S–SW of Kastri” (D5); EB 95-53: D6-1; EB, RJ obs. C3, C4, C5; EB obs. B7 – rather common

Hippocrepis ciliata Willd. – Dörfler 8: “Sandboden”; R & BS 47811: “1–4 km NW of Kastri” (BC45); EB 95-115: C6-5; RJ 940526-25: D6-4; EB, RJ obs. B7, C3; EB obs. A6, B6, E7; RJ obs. B5, C5, E6 – common

Hymenocarpos circinnatus (L.) Savi – Dörfler 95: “Karstboden”; R & BS 47711: “Along the road from the harbour to Kastri” (BC6); EB, RJ obs. C3, C4, C5, C6; EB obs. D5; RJ obs. D6 – common

Lathyrus amphicarpos L. – EB 95-88: C5-2; RJ 960402-19: C5-1; RJ obs. D6 – scattered

Lathyrus aphaca L. – EB 96-86: D56; RJ 960403-19: D6-4 – rare

Lathyrus cicera L. – Dörfler 52: “unter Saaten bei Kastri” (C5); R & BS 47691: “Along the road from the harbour to Kastri” (BC6); EB & AJ 94-18: B7-1; EB 95-98, 95-113: C3-1; RJ 940526-16: D6-1; EB obs. C6 – scattered

EB 95-98 represents a variant with dark-spotted valves which occurs frequently in fields in the area; the spots are hardly recognizable in dried material.

Lathyrus hierosolymitanus Boiss. – Dörfler 50: “unter Saaten bei Kastri” (C5); EB 95-94: C3-1; EB 96-89: D56 – scattered

Lathyrus saxatilis (Vent.) Vis. – *R & BS* 47793: “Kastri. The ravine at the church” (C5); *R & BS* 47863: “Sarakiniko” (B6); *EB* 96-44: A4-1 – very scattered

Lathyrus setifolius L. – *R & BS* 47792: “Kastri. The ravine at the church” (C5); *RJ* obs. C6 – very scattered

Lathyrus sphaericus Retz. – *EB & AJ* 94-23: B6-2; *EB* 95-6: B6-2, *EB* obs. C5, C6, D5 – very scattered

Lens nigricans (Bieb.) Godron – *EB* 95-87: C5-2; *EB* 96-75: D6-1; *EB* 96-94: C5-4; *RJ* 960402-20: C5-1 – scattered

Lotus cytisoides L. – *Dörfler* 92 (*L. creticus* L. subsp. *cytisoides* (L.) Briq.): “Karstboden”; *R & BS* 47694: “Along the road from the harbour to Kastri” (BC6); *R & BS* 47851: “The NW point” (A34); *EB & AJ* 94-111: CD67; *RJ* 940527-06: C5-5; *RJ* 960401-11: C6-4; *EB*, *RJ* obs. C3, E7; *RJ* Photo: D6-4; *RJ* obs. C5 – scattered

Lotus edulis L. – *EB*, *RJ* obs. C3, B5; *EB* obs. E7; *RJ* obs. B7, C5, C6, D6 – rather common

Lotus halophilus Boiss. & Spruner – *Dörfler* s.n.: “Dünen bei Sarakiniko” (B6); Rechinger obs.: “sandige Niederungen” (see also RECHINGER & RECHINGER-MOSER, 1951: tables 11, 28 and 29); *R & BS* 47833: “The NW point” (A34); *EB & AJ* 94-16: B6-1; *EB & AJ* 94-107: A4-1; *EB* 95-34: B6-1; *RJ* 940529-05: B7-1; *EB*, *RJ* obs. B7 – scattered, locally frequent

Lotus ornithopodioides L. – *R & BS* 47716: “W of Kastri” (C4); *EB*, *RJ* obs. C3, D6; *RJ* obs. C4, C5 – scattered

Lotus peregrinus L. – *Dörfler* 1132: “Südküste”; *EB* 95-1: B6-2; *RJ* 960401-65: C6-6; *EB* obs. C3, D5 – scattered

Lotus tetragonolobus L. – *R & BS* 47746: “2–4 km S-SW of Kastri” (D5); *EB* 95-64: D56, *EB*, *RJ* obs. C3; *EB* obs. C6; *RJ* obs. D6 – scattered

Medicago coronata (L.) Bartal. – *Dörfler* 1145: “Felsen am Kap Kamarela” (E7); *EB*, *RJ* obs. C3, C4, C5; *EB* obs. D5, E7; *RJ* obs. B5, B7, C6, D6 – common

Medicago littoralis Loisel. – *Dörfler* 14 (var. *breviseta* DC.): “Dünen an der Nordküste” (see also RECHINGER & RECHINGER-MOSER, 1951: table 29); *EB & AJ* 94-65: C6-1; *EB* 95-172: B6-1; *EB* obs. A4 – scattered

Medicago marina L. – 1942 Rechinger obs. (see also RECHINGER & RECHINGER-MOSER, 1951: tables 28 and 29); *R & BS* 47836: “The NW point” (A34); *R & BS* 47872: “Sarakiniko” (B6); *EB*, *RJ* obs. B6; *EB* obs. A4 – scattered, locally frequent

Medicago minima (L.) L. – *R & BS* 47729: “W of Kastri” (C4); *R & BS* 47821: “Small stream near the NW point” (A4); *RJ* obs. C5 – rare

Medicago monspeliaca (L.) Trautv. – *Dörfler* 11 (*Trigonella monspeliaca* L. f. *typica* Eig): “sandiger Boden”; *EB*, *RJ* obs. C3, C4, C5; *RJ* obs. B5, B7, C6, D6, E6 – common

Medicago orbicularis (L.) Bartal – *Dörfler* 34: “Karstboden bei Vathyana” (D56); *EB* obs. C3, C5 – scattered

Medicago polymorpha L. – *Dörfler* 32 (*M. hispida* Gärtn. var. *lappacea* (Desr.) Hal.): “Vathyana” (D56); *EB* 95-28: B6-2; *EB* obs. C3, D5, D6 – scattered

Medicago rigidula (L.) All. – *EB* 95-79: E7-1; *EB* 132: C6-4 – rare

The specimens may be assigned to var. *agrestis* Burnat.

Medicago rugosa Desr. – *EB* 95-103: C3-1; *EB* obs. D5, D6 – scattered

Medicago truncatula (Retz.) Willd. – *Dörfler* 33 (*M. tribuloides* Desr.): “Karstboden bei Vathyana” (D56); *R & BS* 47739: “2–4 km S–SW of Kastri” (D5); *R & BS* 47796: “Kastri. The ravine at the church” (C5); *EB* 95-68: D56; *EB*, *RJ* obs. C5; *EB* obs. C3, E7; *RJ* obs. C4, D6 – scattered

Our specimen represents the type variety.

Medicago tuberculata Gaertner – *Dörfler* 63: “unter Saaten bei Kastri” (C5)

Melilotus sulcatus Desf. – *R & BS* 47804: “1–4 km NW of Kastri” (BC45); *EB* 96-58: C6-5; *RJ* 960402-02: C6-5; *EB* obs. B7, D6 – scattered

Onobrychis aequidentata (Sm.) D’Urv. – *R & BS* 47737: “2–4 km S–SW of Kastri” (D5); *EB* 95-38: C6-1; *EB*, *RJ* obs. C3; *EB* obs. C5; *RJ* obs. B7 – scattered

Onobrychis caput-galli (L.) Lam. – *Rechinger* 13669: “sandige Hügel am Kap Tsuno” (B7); *R & BS* 47706: “Along the road from the harbour to Kastri” (BC6); *EB* 95-16: B6-2; *EB*, *RJ* obs. B7; *EB* obs. C3, E7; *RJ* obs. C5, C6, D6 – rather common

Ononis hispanica L. fil. subsp. ***hispanica*** – *Rechinger* 13646: “Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 28 and 29, and FÖRTHER & PODLECH, 1991: 251); *R & BS* 47702: “Along the road from the harbour to Kastri” (B6); *R & BS* 47834: “The NW point” (A34); *EB & UM* 3520: B6; *EB & AJ* 94-110: B6-1; *EB* obs. A4, B7; *RJ* obs. C6 – scattered, but locally frequent

Ononis ornithopodioides L. – *R & BS* 47865: “Sarakiniko” (B6); *EB* 95-173: B6-2; *EB & AJ* 94-81: C6-2; *RJ* 960401-51: C6-1; *EB* obs. C5 – scattered

Ononis reclinata L. – *Rechinger* 13667c (“var. *mollis* Heldr.”): “sandige Hügel am Kap Tsuno” (B7); *R & BS* 47703: “Along the road from the harbour to Kastri” (BC6); *R & BS* 47780: “Kastri. The ravine at the church” (C5), *R & BS* 47820: “Small stream near the NW point” (A4); *EB* 95-89: C5-2; *RJ* 940526-06: C6-1; *RJ* 940526-18: D6-1; *RJ* 940527-01: B6-5; *RJ* 940528-04: C5-1; *RJ* 940529-06: B7-1; *RJ* 960401-63: D6-3; *EB*, *RJ* obs. C3; *EB* obs. E7; *RJ* obs. B5, C4, E6 – common

Ononis sieberi DC. – *R & BS* 47704: “Along the road from the harbour to Kastri” (BC6); *EB & AJ* 94-133: B7-2; *RJ* 940526-01: C6-1 – rare

Ononis verae Sirj. – *Dörfler* 73: “Felsen am Kap Kamarela zwischen Gebüsch” (E7); *EB & AJ* 94-73: D6-1; *EB* 95-90: C5-2; *RJ* 940526-07: C6-1; *RJ* 960403-03: D6-1; *EB*, *RJ* obs. B7, C4, D6; *EB* obs. B6, C3, D5, E7; *RJ* Photo: D6-3; *RJ* obs. B5 – common

Ononis viscosa L. subsp. ***breviflora*** (DC.) Nyman – *EB & AJ* 94-79: C6-2; *EB* obs. C5 – rare

Pisum sativum L. subsp. ***sativum*** – *EB* 95-158: C3-1 – rare, established weed

Scorpiurus muricatus L. var. ***muricatus*** – *EB* 95-155: C3-1; *EB* obs. C5; *RJ* obs. D6 – scattered

Scorpiurus muricatus L. var. ***subvillosum*** (L.) Fiori – *Dörfler* 82 (*S. subvillosum* L.): “Karstboden bei Kap Kamarela”; *EB*, *RJ* obs. C3, C5, D6; *EB* obs. B7, E7; *RJ* obs. B6, C6 – common

Securigera securidaca (L.) Degen & Dörfler – *Dörfler* 26: “Karstboden bei Kastri” (C5); *R & BS* 47764: “2–4 km S–SW of Kastri” (D5); *EB*, *RJ* obs. C6; *EB* obs. D5, E7 – scattered

Trifolium arvense – *RJ* obs. C6 – rare

Trifolium campestre Schreber – *Dörfler* 71: “Felsen am Kap Kamarela” (E7); *EB*, *RJ* obs. B7, C3, C4, C5; *EB* obs. D5, E7; *RJ* obs. B5, C6, D6 – common

Trifolium infamia-ponertii Greuter – *R & BS* 47731: “W of Kastri” (C4); *EB*, *RJ* obs. C3, C5; *RJ* obs. B5, C4, D6 – rather common

Trifolium scabrum L. – *Dörfler* 9: “Dünen an der Nordküste”; *R & BS* 47707: “Along the road from the harbour to Kastri” (BC6); *EB*, *RJ* obs. B7, C3, C5, C6; *EB* obs. A4, B4, E7; *RJ* obs. B5, C4, D6 – common

Trifolium stellatum L. – *Dörfler* 1134: “Karstboden bei Vathyana” (D56); EB, RJ obs. C3, C5; EB obs. E7; RJ obs. B5, C4, C6, D6 – common

Trifolium suffocatum L. – *RJ* 960401-40: C6-1; EB, RJ obs. C4, C5; EB obs. A4, C4 – scattered

Trifolium tomentosum L. – *RJ* 960401-41: C6-1; EB, RJ obs. C4, C5, D6; EB obs. B6, C3, D5 – rather common

Trigonella spinosa L. – *Dörfler* 1153: “auf Sandboden”; *R & BS* 47722: “W of Kastri” (C4); *EB* 96-59: C6-5; *RJ* 960401-42: C6-1 – rare

Tripodion tetraphyllum (L.) Fourr. – *Dörfler* 81 (*Physanthyllis tetraphylla* (L.) Boiss.): “Karstboden”; EB obs. C6; RJ obs. D6 – rare

Vicia cretica Boiss. & Heldr. – *Dörfler* 67 (*V. spruneri* Boiss.): “Kastri” (C5); *R & BS* 47772: “3 km S of Kastri” (D5); *R & BS* 47786: “Kastri. The ravine at the church” (C5); *EB* 96-31: B7; EB, RJ obs. C4, C5, C6, D6; EB obs. B6, C3, D5, E7 – common

[***Vicia faba*** L.] – EB, RJ obs.; cultivated, locally escaped

Vicia hybrida L. – RJ obs. C5-1 – rare

Vicia parviflora Cav. – *R & BS* 47684: “Along the road from the harbour to Kastri” (BC6); *R & BS* 47849: “The NW point” (A34); *EB* 95-4: B6-2; EB, RJ obs. C6; EB obs. B7, C3, C4, C5, D5 – rather common

Vicia peregrina L. – *RJ* 960402-05: C5-1 – rare

Vicia sativa L. subsp. ***amphicarpa*** (L.) Batt. – *RJ* 940526-29: D6-4; *RJ* 960401-44: C6-1; *RJ* 960402-06: B5-2; *RJ* 960402-10: C3-1; *RJ* 960403-09: D6-4; RJ obs. C5, D6 – scattered
Confirmation for the Cretan area.

Vicia sativa L. subsp. ***cordata*** (Hoppe) Asch. & Graebner – *Dörfler* 51: “Kastri” (C5); *RJ* 960401-56: C6-1 – rare

The following records of *V. sativa* cannot be assigned with certainty to any subspecies: *EB* & *AJ* 94-22: B6-2; *EB* 95-65: C3-1; *EB* 95-99: D56; EB obs. C6.

Linaceae

Linum strictum L. var. ***spicatum*** Pers. – *EB* 95-20: B6-2; EB, RJ obs. B6, B7, C3, C4, C5, D6; EB obs. A6, D5, E7; RJ obs. B5, C6 – common

Lythraceae

Lythrum hyssopifolia L. – EB 96-83: C6-6; EB obs. A4, B7, C4, C5 – scattered

Malvaceae

Malva aegyptia L. – EB 96-35: B6-4; EB obs. E7; RJ obs. C3, C4, D6, E6 – scattered

Malva cretica Cav. subsp. *cretica* – Dörfler 1146: “Felsen am Kap Kamarela” (E7); EB obs. E7 – rare

Malva parviflora L. – R & BS 47748: “2–4 km S–SW of Kastri (D5); EB & AJ 94-36: C6-1; RJ 960401-30: C6-1; EB obs. C5, D6 – scattered

Moraceae

[***Ficus carica*** L.] – EB, RJ obs. C5, D3 – scattered occurrences probably all due to cultivation

Oleaceae

Olea europaea L. var. *sylvestris* (Miller) Lehr – EB obs. B7, C5 – rare

Young plantations of the cultivated taxon in B6 and C6.

Orobanchaceae

Orobanche pubescens Dum.-Urv. – EB 95-148: E7-1; EB 96-42: A4-1; EB obs. C6 – scattered

Orobanche ramosa L. subsp. *mutelii* (F. W. Schultz) Cout.– Dörfler 58 (*O. muteli* F. Schultz f. *spissa* Beck): “Karstboden bei Kastri” (C5); Dörfler 1144 (*O. muteli* f. *spissa*): “Felsen am Kap Kamarela” (E7); R & BS 47810: “1–4 km NW of Kastri” (BC45); EB 96-76: D6-3 (on *Chrysanthemum coronarium*), EB obs. C6 – very scattered

Orobanche ramosa L. subsp. *nana* (Reuter) Cout. – RJ 940529-07: B7-1 – rare

Oxalidaceae

Oxalis pes-caprae L. – EB obs. B5 (1994, one plant); EB, RJ obs. C6 (1996, numerous under several olive trees in a plantation) – rare neophytic weed, but spreading

Papaveraceae

Fumaria macrocarpa Parl. – EB 95-102: C3-1 – rare

Fumaria parviflora Lam. – EB 95-134: C6-4; RJ 960402-01: C6-5 – rare

Hypecoum procumbens L. subsp. *procumbens* – R & BS 47699: “Along the road from the harbour to Kastri” (BC6); EB 96-63: C5-1; EB 96-102: C3-1; RJ 960402-08: C4-2 – rare

Papaver hybridum L. – R & BS 47857: “Kastri” (C5); EB & AJ 94-54: C6-1; EB 96-68: C5-1; RJ 960401-32: C6-1; EB obs. C3, D6 – scattered

Papaver purpureomarginatum Kadereit – EB 96-36: A4-1 – rare

Papaver rhoeas L. – R & BS 47858: “Kastri” (C5); EB, RJ obs. C6; EB obs. C3, C5, D6 – scattered

Roemeria hybrida (L.) DC. – Dörfler 1147: “unter Saaten bei Kastri” (C5); EB 96-80: C6-5; EB 96-104: C3-1 – rare

Plantaginaceae

Plantago afra L. – Dörfler 1140 (*P. psyllium* L.): “Karstboden”; R & BS 47682: “Along the road from the harbour to Kastri” (BC6); EB 95-19: B6-2; EB, RJ obs. C6, D6; EB C3, C5, D5; RJ obs. C4 – rather common

Plantago albicans L. – EB & AJ 94-7: B6-2; EB obs. E7; RJ obs. C5, C6 – scattered

Plantago bellardii All. – R & BS 47752: “2–4 km S–SW of Kastri” (D5); EB, RJ obs. C3; RJ obs. C5 – scattered

Plantago lagopus L. – Dörfler 27: “Karstboden bei Vathyana” (D56); R & BS 47732: “W of Kastri” (C4); EB & AJ 94-58: C6-1; EB, RJ obs. C4, C5, D6; EB obs. C3, D5, E7; RJ obs. B4, B5, D6 – common

Plantago lanceolata L. – EB & AJ 94-85: C5-1 – rare

Plantago squarrosa Murray – Dörfler 1148: “Dünen an der Nordküste, massenhaft”; Rechinger 13648: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); R & BS 47837: “The NW point” (A3); R & BS 47862: “Sarakiniko” (B6); EB & AJ 94-98: A4-1; EB 95-125: B6-1; EB obs. B7 – scattered, locally abundant

Plantago weldenii Reichenb. subsp. ***weldenii*** – Dörfler 115 (“*P. coronopus*”): “Karstboden”; *R & BS* 47859: “Sarakiniko” (B6); *EB* 95-152: E7-1; *EB* obs. A4, C4, C5; *RJ* obs. B4, C6 – scattered

Plumbaginaceae

(*Limonium avei* (De Not.) Brullo & Erben) – BRULLO (1988) regards *L. echiooides* a West Mediterranean taxon which is replaced in the Central and East Mediterranean by *L. avei*. Thus, only *L. avei* is given for Greece: beside material of Attikí there is one record from Gávdos quoted by BRULLO (1988). The source of this is not specified but is almost certainly based on Rechinger 13643 which represents in fact *L. echiooides* (ERBEN, in litt.). According to BRULLO (1988) and ERBEN (1978) *L. avei* is characterized by mucronate leaves and pilose calyces without mucro, while the leaves of *L. echiooides* neither have acumen nor mucro, the calyces being glabrous or subglabrous with long-exserted uncinate mucro. The specimens collected by us on Gávdos have the set of characters typical of *L. echiooides*, and the same is true for all material from the Cretan main island collected by RJ and A. Mayer (see MAYER, 1995) as well as for the following specimens seen by EB from the South Aegean: “Kreta, Lasithi, Ep. Sitia: Itamos (35°16'N/26°16'E)”, 6/4/1984, *Raus* 9117 (C); “Kasos, Insel Armathia, Südostküste (35°25'30"N/26°52'30"E)”, 19/4/1983, *Raus* 7599 (C); “Karpathos, Südostküste nördl. Ammopi (35°28'40"N/27°12'30"E)”, 21/5/1984, *Raus* 9894 (C). Hence, the occurrence of *L. avei* for the Cretan area as given in Med-Checklist (GREUTER & al., 1989) still remains to be proved.

Limonium creticum Artelari – *EB & AJ* 94-115: CD67 (det. A. Mayer) – rare

Limonium echiooides (L.) Miller – Rechinger 13643: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); *EB & AJ* 94-28: B6-2; *EB & AJ* 94-105: A4-1; *RJ* 940526-09: C6-6; *RJ* 940526-31: E6-1; *EB, RJ* obs. B4, C3, C5, E7; *EB* obs. B7; *RJ* obs. D6 – rather common

Limonium elaphonisicum A. Mayer – *EB & AJ* 94-106: A4-1 (det. A. Mayer) – rare

Limonium graecum (Poiret) Rech. fil. subsp. ***graecum*** – Rechinger 13643: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); *R & BS* 447850: “The NW point” (A34); *R & BS* 47871: “Sarakiniko” (B6); *EB & UM* 3522: B6 (det. A. Mayer); *EB* 95-119: B3-1 (det. A. Mayer); *RJ* 940528-02: B6-1 – scattered

Polygalaceae

Polygala monspeliaca L. – *RJ* obs. C6 – rare

Polygala venulosa Sm. – Dörfler 78: “zwischen Buschwerk am Kap Kamarela” (E7); *R & BS* 47760: “2-4 km S-SW of Kastri” (D5); *EB* 95-63: D6-1; *EB, RJ* obs. C3; *EB* obs. A6, B7, C4, C5, E7; *RJ* obs. C6 – rather common

Polygonaceae

Emex spinosa (L.) Campd. – EB obs. A4, C5, D6; RJ obs. B6 – scattered

Polygonum maritimum L. – Rechinger 13642: “Sandstrand an der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 28 and 29); EB, RJ obs. B6, EB obs. A4, E7 – rare

Rumex bucephalophorus L. subsp. ***aegaeus*** Rech. fil. – Dörfler 57 (“*R. bucephalophorus*”): “Karst- and Kulturboden”; EB obs. A4, B6, B7; RJ obs. C4; C5 – scattered

Rumex pulcher L. subsp. ***anodontus*** (Hausskn.) Rech. fil. – EB 95-97: C3-1 – rare

According to TURLAND & al. (1993) there is no published record for the Cretan area since 1930.

Rumex pulcher L. subsp. ***woodsii*** (De Not.) Arcangeli – R & BS 47765: “2–4 km S–SW of Kastri” (D5); EB & AJ 94-76: D56; EB obs. D6 – scattered

A field record from C6 cannot be assigned to a subspecies.

Primulaceae

Anagallis arvensis L. var. ***caerulea*** (L.) Gouan – EB 95-11: B6-2; RJ 940529-01: B7-1; EB, RJ obs. B6, C3, C5, C6, D6, E7; EB obs. A4, A6, C4, D5; RJ obs. B4, B5, E6 – common

Asterolinon linum-stellatum (L.) Duby – Dörfler 1149: “Karstboden”; EB, RJ obs. B7, C3; EB obs. A4; RJ obs. B6, C5, C6, D6 – common

Rafflesiaceae

Cytinus hypocistis (L.) L. subsp. ***clusii*** Nyman – RJ obs. C6-1 (on *Cistus creticus*) – rare

Cytinus hypocistis (L.) L. subsp. ***orientalis*** Wettst. – Dörfler 303: “auf *Cistus* am Kap Kamarela” (E7); EB 95-130: B7-2 (on *Cistus parviflorus*); RJ obs. B6-5 – scattered

Ranunculaceae

Adonis microcarpa DC. subsp. ***cretica*** (Huth) Vierh. – Dörfler 20 (“*A. cupaniana*”): auf Karstboden; R & BS 47757: “2–4 km S–SW of Kastri” (D5); EB & AJ 94-59: C5-1; RJ 940526-22: D6-4; RJ 960402-07: C4-2 – scattered

Anemone coronaria L. – EB 96-53: C6-5; RJ 960401-45: C6-1; RJ 960403-20: D6-4; EB, RJ obs. C5; EB obs. C3, D6 – scattered

EB 96-53 represents the common variant with violet-blue petals which is by far more frequent on Gávdos than plants with scarlet petals (var. *coccinea* (Jordan) Burn.), the latter were observed as a segetal weed in C3, C5, D6.

Clematis cirrhosa L. – R & BS 47783: “Kastri. The ravine at the church” (C5) (see also BORATYNSKI & al., 1992: 63); EB obs. C5 – rare

Nigella damascena L. – R & BS 47785: “Kastri. The ravine at the church” (C5); EB obs. C5 – rare

Nigella doerfleri Vierh. – R & BS 47736: “2–4 km S–SW of Kastri” (D5); R & BS 47771: “3 km S of Kastri” (D5); EB & AJ 94-50: C6-1; EB 95-7: B6-2; EB 95-82: E7-1; RJ 940526-17: D6-1; RJ 940526-26: D6-4; RJ 960401-13: C6-4; EB obs. C3; RJ obs. C4 – scattered

Ranunculus asiaticus L. var. *albus* Hayek – Dörfler 66: “auf Karstboden bei Kastri”; EB & AJ s. n.: C6-1; EB 96-21: B7-1; RJ 960401-36: C6-1; EB, RJ obs. C5, D6; EB obs. B6; RJ obs. B5 – scattered, locally abundant

Ranunculus asiaticus L. var. *sanguineus* (Miller) DC. – Dörfler 3 (f. *puniceus* Dörfler): “Äcker bei Ambelos” (C3); EB, RJ obs. D6; EB obs. C3, C5, D5 – very scattered

Ranunculus bullatus L. – RJ 960401-53: C6-1; EB, RJ obs. C5 – scattered

Ranunculus creticus L. – EB obs. C5 – rare

Ranunculus ficaria L. subsp. *chrysocephalus* P. D. Sell – EB obs. C3, C5, D6 – very scattered

Ranunculus paludosus Poiret – Dörfler 112 (*R. flabellatus* Desf.): bei Xenakis (D45); EB obs. C3, C6, D5, E7; RJ obs. D6 – scattered

Resedaceae

Reseda lutea L. subsp. *lutea* – Dörfler 116: “Kulturboden bei Vathyana” (D56); Rechinger 13667d: “sandige Hügel am Kap Tsuno” (B7); R & BS 47698: “Along the road from the harbour to Kastri” (BC6); R & BS 47742: “2–4 km S–SW of Kastri” (D5); EB & AJ 94-33: C6-1; RJ Photo: C5-1; EB obs. C5, D56 – scattered

Reseda odorata L. – Dörfler 69 (“*R. orientalis* (Müller) Boiss.”): “Karstboden bei Vathyana” (D56); R & BS 47774: “Kastri. The ravine at the church” (C5); EB & AJ 94-48: C6-1; EB & AJ 94-89: A4-1; RJ 940529-09: B7-1; RJ 960405-01: B7-1; EB obs. C5 – scattered

Rosaceae

(*Rosa canina* L.) – is erroneously given for Gávdos in BORATYNNSKI & al. (1992: 211)

Sanguisorba minor Scop. subsp. ***verrucosa*** (Decne) Holmboe – EB 95-37: C6-1; RJ obs. C5 – rare

Sarcopoterium spinosum (L.) Spach – EB, RJ obs. C3; EB obs. E7; RJ obs. C4, C5, C6, D6 – common on limestone

Rubiaceae

Asperula rigida Sm. – Rechinger 13664: “sandige Hügel am Kap Tsuno” (B7); R & BS 47717: “W of Kastri” (C4); EB & AJ 94-27: B6-2; EB, RJ obs. D6; EB obs. A6, B7, C3, C4, C5, C6, E7; RJ obs. B5, E6 – common

Crucianella latifolia L. – EB & AJ 94-72: D6-1; EB, RJ obs. B7; EB obs. E7; RJ obs. B5, C6 – rather common

Galium aparine L. – EB, RJ obs. C5, C6 – scattered

Galium graecum L. subsp. ***graecum*** – R & BS 47782: “Kastri. The ravine at the church” (C5); EB obs. C4, C5; RJ obs. D6 – very scattered

Galium murale (L.) All. – Dörfler 39: “Karstboden bei Vathyana” (D56); RJ 960401-10: C6-4; EB obs. A4, C3, C4, D5; RJ obs. B7; C5; D6 – rather common

Galium setaceum Lam. – R & BS 47770: “3 km S of Kastri” (D5); EB 95-10: B6-2; EB, RJ obs. B7; RJ obs. D6 – scattered

Galium tricornutum Dandy – EB 95-136: C6-4; EB 96-82: C6-6 – rare

Galium verrucosum Hudson – EB 96-93: D56; RJ 960403-07: D6-4 – rare

According to TURLAND & al. (1993) there is no post-1930 record for Kríti.

Sherardia arvensis L. – EB, RJ obs. D6; EB obs. C3, D5; RJ obs. C4, C5 – rather common

Valantia hispida L. – Dörfler 36: “Karstboden bei Vathyana” (D56); EB 95-40: C6-1; EB, RJ obs. B4, B7, C4, C5, D6; EB obs. A4, C3, E7 – common

Valantia muralis L. – EB 95-42: C6-1; RJ 960401-15: C6-4; EB, RJ obs. D6; EB obs. A4, B4, B7, C3; RJ obs. B5, C4, C5, E6 – common

Rutaceae

Ruta chalepensis L. subsp. ***chalepensis*** – *R & BS* 47800: “Kastri. The ravine at the church” (C5); *EB* 96-70: C5-3 – rare

Santalaceae

Thesium bergeri Zucc. – *EB* obs. D6, E7; *RJ* obs. B6, B7, C6 – scattered

Saxifragaceae

Saxifraga tridactylites L. – *EB* 96-97: C5-4 – rare

Scrophulariaceae

Bellardia trixago (L.) All. – *RJ* obs. C5-5 – rare

Kickxia elatine (L.) Dumort. subsp. ***sieberi*** (Reichenb.) Hayek – *EB & AJ* 94-25: B6-2; *EB* 96-96: C5-4; *RJ* 940528-06: C5-1; *EB, RJ* obs. C4 – scattered

Linaria chalepensis (L.) Miller – *EB* 96-81: C6-6 – rare

Linaria micrantha (Cav.) Hoffmanns. & Link – *EB* 95-131: C6-4; *RJ* 960401-28: C6-1 – rare

According to TURLAND & al. (1993) there is no published record for the Cretan area since 1930.

Linaria pelisseriana (L.) Miller – *Dörfler* 1136: “unter Saaten bei Kastri” (C5)

Linaria simplex (Willd.) DC. – *EB* 96-27: B7-2; *RJ* 940529-04: B7-1; *RJ* 960401-29: C6-1 – rare

Linaria triphylla (L.) Miller – *Dörfler* 48: “unter Saaten bei Kastri” (C5); *EB* 95-51, 96-91: D56; *RJ* 960403-08: D6-4 – rare

According to TURLAND & al. (1930) there is no published record for the Cretan area since 1930.

Misopates orontium (L.) Rafin. – *R & BS* 47791: “Kastri. The ravine at the church” (C5); *EB* 95-9: B6-2; *EB, RJ* obs. C6; *EB* obs. E7; *RJ* obs. B7 – scattered

Parentucellia latifolia (L.) Caruel – *EB* obs. C4-1 – rare

Verbascum sinuatum L. – EB, RJ obs. C5; EB obs. B6 – very scattered

Veronica cymbalaria Bodard – EB obs. C4, C5 – very scattered

Veronica polita Fries – EB 96-60: C5-1 – rare

Solanaceae

Hyoscyamus albus L. – EB & AJ 94-109: B7-1; EB, RJ obs. C5 – rare

[*Lycopersicon esculentum* Miller] – EB obs. cultivated and as rare garden escape

Mandragora autumnalis Bertol. – RJ obs. C6 – rare

Theligonaceae

Theligonum cynocrambe L. – R & BS 47823: “Small stream near the NW point” (A4); EB obs. A4, C5; RJ obs. D6 – scattered

Umbelliferae

Bifora testiculata (L.) Schultes – Dörfler 54: “unter Saaten bei Kastri” (C5); EB 95-93: C3-1 – rare

Bunium ferulaceum Sibth. & Sm. – EB 95-67: D56 – rare

Bupleurum gaudianum Snogerup – R & BS 47733: “2–4 km S–SW of Kastri” (D5); R & BS 47854: “1 km N of Kastri” (C5) (SNOGERUP, 1984); EB 95-8: B6-2; EB & AJ 94-64: D6-1; EB 96-95: C5-4; RJ 940526-13: D6-1; RJ 940528-07: C3-2; RJ 960401-01: C6-1; RJ 960403-02: D6-1; EB, RJ obs. C3; EB obs. C4, E7; RJ obs. B5, C5, D6 – rather common

Bupleurum lancifolium Hornem. var. *longifolium* (Desv.) Hayek – Dörfler 111: “unter Saaten bei Xenakis” (D45)

Bupleurum semicompositum L. – Rechinger 13666: “sandige Hügel am Kap Tsuno” (B7) (“var. *glaucum* (Rob. & Cast.) Wolff”); R & BS 47803d: “1 km NW of Kastri” (C45); R & BS 47853: “1 km N Kastri” (C5); R & BS 47864: “Sarakiniko” (B6); EB & AJ 94-12: B6-1; EB 95-22: B6-2; RJ 940526-11: C6-6; EB obs. A4, B7, C3, C5; RJ obs. C6, E7 – scattered

Crithmum maritimum L. – RJ obs. E7 – rare

Daucus guttatus Sm. – *R & BS* 47755: “2–4 km S–SW of Kastri” (D5); *EB* obs. C5 – rare

Daucus involucratus Sm. – *R & BS* 47755pp: “2–4 km S–SW of Kastri” (D5); *EB* obs. C3, D5; *RJ* obs. C4, C5, C6, D6 – scattered

Eryngium maritimum L. – *EB*, *RJ* obs. B6 – rare

Foeniculum vulgare Miller subsp. ***piperitum*** (Ucria) Cout. – *Rechinger* (leg. Herzog) 13673: “Brachen bei Ambelos” (C3); *EB*, *RJ* obs. B6, C5, C6 – scattered

Lagoecia cuminoides L. – *Dörfler* 1154: “Karstboden” (see also RECHINGER & RECHINGER-MOSER, 1951: table 11); *EB*, *RJ* obs. C3; *EB* obs. D5, E7; *RJ* obs. C4, C5, C6, D6 – common

Pseudorlaya pumila (L.) Grande – *Dörfler* 23 (*Daucus pumilus* (Gou.) Ball.): “Dünen bei Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 29); *R & BS* 47838: “The NW point” (A34); *EB* 95-36: B6-1; *EB*, *RJ* obs. B7; *EB* obs. A4 – rare, but locally frequent

Scaligeria napiformis (Sprengel) Grande – *EB* obs. C4, D6 – rare

Scandix australis L. subsp. ***australis*** – *Dörfler* 68 (“subsp. *gallica* Vierh.”): “Karstboden bei Kastri”; *EB* 95-133: C6-4; *EB* 96-79: D6-1; *RJ* 960403-04: D6-1; *RJ* obs. C4, C5 – scattered

Scandix pecten-veneris L. – *Dörfler* 113: “Kulturboden”; *EB* 95-47: C6-4; *EB* obs. C3, C5, D6 – scattered

Tordylium apulum L. – *Dörfler* 99: “Karstboden an der Südküste”; *RJ* 960401-14: C6-4; *EB*, *RJ* obs. C5, D6; *EB* obs. C3, D5; *RJ* obs. C4 – rather common

Torilis humilis (Jacq.) Lassen (*T. leptophylla* auct.) – *R & BS* 47728: “W of Kastri” (C4); *R & BS* 47756: “2–4 km S–SW of Kastri” (D5); *EB* 95-135: C6-4; *EB*, *RJ* obs. C3; *RJ* obs. C4, C5 – scattered

Nomenclature follows P. Lassen (in RAUS, 1996).

Torilis nodosa (L.) Gaertner – *R & BS* 47756pp, 47763: “2–4 km S–SW of Kastri” (D5); *EB* & *AJ* 94-61: C5-1, *EB* obs. C3, C4, D5 – scattered

Urticaceae

Parietaria cretica L. – Dörfler 75: “Felsen am Kap Kamarela” (E7); EB obs. C5; RJ obs. C6, D6, E7 – scattered

Urtica pilulifera L. – EB, RJ obs. C4, C5, C6 – scattered

Urtica urens L. – RJ obs. B4, C4 – scattered

Valerianaceae

Centranthus calcitrapae (L.) Dufresne subsp. ***calcitrapae*** – Dörfler 18: “Karstboden bei Vathyana” (D56); EB obs. C5; RJ obs. C4 – scattered

Valerianella coronata (L.) DC. – Dörfler 94: “Karstboden an der Südküste”

Valerianella discoidea (L.) Loisel. – Dörfler 1142: “unter Saaten bei Kastri” (C5); RJ 960401-43: C6-1; EB obs. D5 – scattered

Valerianella microcarpa Loisel. – R & BS 47824: “Small stream near the NW point” (A4); R & BS 47848: “The NW point” (A34); EB 96-46: A4-1 – rare

Valerianella muricata Loisel. – EB 96-110: C4-1 – rare

Valerianella pumila (L.) DC. – EB 96-64: C5-1 – rare

New to the Aegean area.

Valerianella vesicaria (L.) Moench – EB obs. C3, C6, D56 – scattered

MONOCOTYLEDONES*Amaryllidaceae*

Narcissus tazetta L. – EB 95-69: D56; EB obs. C5 – rare

Pancratium maritimum L. – EB, RJ obs. B6 – rare

Araceae

Arisarum vulgare Targ.-Tozz. – EB, RJ obs. C4, C5, D6; EB obs. A4, B7, C3, D5, E7; RJ obs. B5, B6, C6 – common

Cyperaceae

Carex halleriana Asso – EB & AJ 94-75: D6-1; EB 95-145: D6-1 – rare

Carex illegitima Cesati – EB 95-146: D6-1 – rare

Schoenus nigricans L. – EB & AJ 94-90: A4-1 – rare

Gramineae

Aegilops biuncialis Vis. – R & BS 47754: “2–4 km S–SW of Kastri” (van SLAGEREN, 1994: 156 and distribution map); EB & AJ 94-70: D6-1; EB obs. E7; RJ obs. D6 – scattered

Aegilops geniculata Roth – R & BS 47692: “Along the road from the harbour to Kastri” (BC6) (van SLAGEREN, 1994: 238 and distribution map)

Aegilops markgraffii (Greuter) Hammer – R & BS 47725: “W of Kastri” (C4) (van SLAGEREN, 1994: 166, “*Ae. caudata* L.”, dot erroneously omitted in distribution map); EB & AJ 94-69: D6-1; EB obs. C3, E7 – scattered

Aeluropus lagopoides (L.) Thwaites – EB 95-76: E7-1; RJ 960403-10: E7-1 – rare, locally frequent

Aira elegantissima Schur – R & BS 47807: “1–4 km NW of Kastri” (BC45); EB, RJ obs. C5; RJ obs. B5 – scattered

Andropogon distachyos L. – EB obs. C5-3 – rare

Avellinia michelii (Savi) Parl. – EB & AJ 94-124: C4-2; EB 96-65: C5-1; RJ 960402-04: C5-1; EB obs. B7 – scattered

Avena barbata Link subsp. ***barbata*** – EB & AJ 94-126b: C6-4; EB, RJ obs. B7, C3, D6; EB obs. E7; RJ obs. B5, B6, C4, C5, C6 – common

[***Avena byzantina*** C. Koch] – EB & AJ 94-56: C6-1 – cultivated as field crop and rare weed in fallow fields

Avena sterilis L. subsp. ***sterilis*** – EB & AJ 94-126a: C6-4 – scattered

The following field notes are assigned to the species: EB obs. C5; RJ obs. B7, C6

Brachypodium distachyon (L.) P. Beauv. – R & BS 47744: “2–4 km S–SW of Kastri (D5); RJ 960402-11a: C3-1; EB, RJ obs. D6; EB obs. A4, A6, B7, C3, E7; RJ obs. B6 – rather common

Briza maxima L. – EB, RJ obs. C3; RJ obs. C4, C5, D6 – scattered

Bromus alopecuros Poiret – EB 95-106: C3-1 – rare

Bromus fasciculatus C. Presl – Dörfler 76: “Kap Kamarela” (E7); Dörfler 35: “Vathyana” (D56); EB 95-55: D6-1; EB 96-30: B7-2 (Both specimens of which the former was kindly identified by Prof. H. Scholz represent tiny plants with unusually small spikelets and glumes); RJ 960401-46: C6-1; RJ 960403-01: D6-1; EB, RJ obs. C4, C5; EB obs. B4, B7, C3, E7; RJ obs. B6 – common

Bromus intermedius Guss. – EB & AJ 94-19: B7-1; EB & AJ 94-80: C6-2; EB 95-21: B6-2; EB, RJ obs. C3; EB. obs. E7; RJ obs. B5, C4, C5, D6

Bromus madritensis L. subsp. ***madritensis*** – EB & AJ 94-84: C5-1; EB 95-17: B6-2; EB obs. C3; RJ obs. C4, E6 – scattered

Bromus rubens L. – R & BS 47683: “Along the road from the harbour to Kastri” (BC6); R & BS 47799: “Kastri. The ravine at the church” (C5); EB & AJ 94-11: B7-1; EB 96-72: C6-1; RJ 940526-02: C6-1; EB, RJ obs. C3,C5; RJ obs. E6 – scattered

Bromus scoparius L. – EB & AJ 94-60: D6-1 – rare

Given as “before 1930” record for Gávdos by TURLAND & al. (1993: 379) although there is apparently no literature basis for this.

Bromus sterilis L. – EB obs. C5 – rare

Bromus tectorum L. – EB 96-92: D56 – rare

Catapodium marinum (L.) C. E. Hubbard – EB 96-23: B7-2; EB obs. A4, A6, E7 – scattered

Catapodium rigidum (L.) C. E. Hubbard – Dörfler 38 (*Scleropoa rigida* (L.) Gris.): “Karstboden”; EB 95-164: C3-1; RJ 940526-23: D6-4; RJ 940526-30: E6-1; RJ 960401-04: C6-4; RJ 960401-47: C6-1; EB obs. C6, D5, D6; RJ obs. B5, B7, C4, C5 – common

Cutandia maritima (L.) W. Barbey – *Rechinger* 13654: “Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); *R & BS* 447830: “The NW point” (A34); *EB* 95-32: B6-1, EB obs. A4 – rare, locally frequent

Cynodon dactylon (L.) Pers. – *EB* 95-122: B6-4 – rare

Dactylis glomerata L. subsp. ***hackelii*** (Asch. & Graebner) Ciferri & Giacomini – *EB & AJ* 94-116: CD67 – rare

Dactylis glomerata L. subsp. ***hispanica*** (Roth) Nyman – EB, RJ obs. C3, C4, D6; EB obs. D5, E7; RJ obs. C6, E6 – common

Echinaria capitata (L.) Desf. – *EB* 95-52: D6-1; *EB & AJ* 94-51: C6-1; EB, RJ obs. C3; RJ obs. C5 – scattered

Elytrigia juncea (L.) Nevski – *RJ* 940528-01: B6-1 – rare

Gastridium phleoides (Nees & Meyen) C. E. Hubbard – *EB & AJ* 94-83: C6-2; *RJ* 940526-15: D6-1; EB, RJ obs. C3; EB obs. A4, B6, B7, E7; RJ obs. B5, C4, C5 – common

Hordeum leporinum Link subsp. ***leporinum*** – *Dörfler* 31 (*H. murinum* L. subsp. *leporinum* (Link) Asch. & Gr.): “Karstboden bei Vathyana” (D56); *R & BS* 47779: “Kastri. The ravine at the church” (C5); *EB & AJ* 94-46: C6-1; *RJ* 960401-26: C6-1; *RJ* 960401-57: C6-1; EB, RJ obs. C5; EB obs. C3; RJ obs. C4 – scattered

[***Hordeum vulgare*** L. subsp. ***vulgare***] – *EB & AJ* 94-42a: C6-1; *EB* 95-154: C3-1 – cultivated as field crop and subsppontaneous in fallow fields

Hyparrhenia hirta (L.) Stapf – *Rechinger* 13653: “sandige Hügel am Kap Tsuno” (B7) (see also RECHINGER & RECHINGER-MOSER, 1951: table 11); EB obs. E7; RJ obs. B5, B7, D6 – scattered

Lagurus ovatus L. subsp. ***ovatus*** – *Dörfler* 114: “Karstboden”; *EB & AJ* 94-47: C6-1; EB, RJ obs. C3, C5; EB obs. A4, B7 – rather common

Lolium rigidum Gaudin subsp. ***lepturoides*** (Boiss.) Sennen & Mauricio – *R & BS* 447829: “The NW point” (A34); *RJ* 960401-50: C6-1 – rare

Lolium rigidum Gaudin subsp. ***rigidum*** – *EB* 95-138: C3-1; EB obs. C5, C6 – scattered

Lolium subulatum Vis. – *EB* 95-104: C3-1; *EB* 96-69: C5-1 – rare

Confirmation for the Cretan area.

Not given by TURLAND & al. (1993) and JAHN & SCHÖNFELDER (1995), but reported for Kríti by RECHINGER (1944) and found by RAUS (1997 et in litt.) on Kasos and Karpathos. The species is otherwise known from Cyprus, Israel, Lebanon, Syria and Croatia (TERRELL, 1968), as well as Anatolia (MILL, 1985). Following TERRELL (1968) species rank is considered appropriate here for this taxon which differs clearly from the *L. rigidum* subspecies by the following combination of characters: culms upright, spikes straight, axis indurated and excavated to partly embracing the spikelets, adpressed glumes longer than spikelets (BERGMEIER & RAUS, in prep.).

Lolium temulentum L. – *R & BS* 47805: “1–4 km NW of Kastri” (BC45); *EB & AJ* 94-41: C6-1; *EB* 95-50: D56; *EB* obs. C3 – scattered

Parapholis incurva (L.) C. E. Hubbard – *R & BS* 47680: “Along the road from the harbour to Kastri” (BC6); *EB & AJ* 94-9b, 94-26: B6-1; *EB & AJ* 94-38: C6-1; *EB & AJ* 94-121: B5-1; *EB & AJ* 94-102: A4-1; *EB* 95-75: E7-1; *RJ* 940526-32: E6-1; *RJ* 960401-71: D6-6; *EB* obs. C3, C5 – scattered

Parapholis marginata Runemark – *R & BS* 47813b: “1–4 km NW of Kastri” (BC45); *R & BS* 47818b: “Small stream near the NW point” (A4); *R & BS* 47839: “The NW point” (A34); *EB & AJ* 94-103: A4-1 – very scattered

Phalaris minor Retz. – *R & BS* 47818: “Small stream near the NW point” (A4); *EB & AJ* 94-21: B6-2; *EB* 95-23: C3-1; *EB* 95-49: D56; *EB* 95-163: C6-4 – scattered

Phalaris paradoxa L. – *R & BS* 47743: “2–4 km S–SW of Kastri (D5); *R & BS* 47808: “1–4 km NW of Kastri” (BC45); *EB & AJ* 94-71: D6-1; *EB* 95-108: C3-1 – very scattered

Phleum crypsoides (D'Urv.) Franchet subsp. *crypsoides* – *Dörfler* 22 (*Maillea urvillei* Parl.): “Dünen an der Nordküste” (see also RECHINGER & RECHINGER-MOSER, 1951: table 29); *R & BS* 47870: “Sarakiniko” (B6); *EB & AJ* 94-2: B6-1; *RJ* 940527-09: A5-1; *RJ* 960401-60: C6-1; *EB* obs. A4; *RJ* obs. B7; D6 – scattered, locally frequent

Phleum subulatum (Savi) Asch. & Graebner – *R & BS* 47775: “Kastri. The ravine at the church” (C5)

Piptatherum miliaceum (L.) Coss. subsp. *miliaceum* – *EB* obs. B6, C3, E7; *RJ* obs. C6, E6 – scattered

Poa infirma Kunth – *EB* 96-38&88: A4-1, D56; *RJ* 960402-09a: B4-1; *RJ* 960401-33: C6-1; *EB* obs. C4, C5 – scattered

Given as “before 1930” record for Gávdos by TURLAND & al. (1993: 389) although there is apparently no literature basis for this.

Poa pelasgis H. Scholz – *RJ* 960402-14: C3-1 – rare

Field records of *Poa bulbosa* agg. (*EB* obs. C6, D6) may belong here.

Polypogon maritimus Willd. subsp. ***maritimus*** – EB 96-71: C6-1; EB obs. C4, C5 – scattered

Polypogon maritimus Willd. subsp. ***subspathaceus*** (Req.) Asch. & Graebner – EB 95-74: E7-1 – rare

Polypogon monspeliensis (L.) Desf. – R & BS 47827: “Small stream near the NW point” (A4); EB & AJ 94-91: A4-1; EB & AJ 94-120: B5-1; RJ 960401-52: C6-1 – scattered

Psilurus incurvus (Gouan) Schinz & Thell. – EB 95-27: B6-2; EB & AJ 94-9a: B6-2; EB 96-73: C6-1; RJ 960401-35: C6-1; EB, RJ obs. B7, C3, C5; EB obs. E7; RJ obs. B5, C4, D6 – common

Rostraria cristata (L.) Tzvelev var. ***cristata*** – EB 95-24: B6-2; RJ 960401-37: C6-1; RJ 960401-54: C6-1; EB, RJ obs. B7, C3, C5; EB obs. E7; RJ obs. B5, D6 – common

Beside the type variety var. ***glabriflora*** (Trautv.) M. Doğan was found on Gávdos (EB 95-107: C3-1; EB obs. C5) which is distinguished in habit by the very long, lobed inflorescence, and was found as a segetal weed only. The following record refers to the species: Dörfler 41: “Karstboden bei Vathyana” (D56).

Stipa bromoides (L.) Dörfler – R & BS 47794: “Kastri. The ravine at the church” (C5); EB obs. D6-1 – rare

Stipa capensis Thunb. – EB, RJ obs. C6; EB obs. E7; RJ obs. B5, B7, C5, D6, E6 – rather common

Triplachne nitens (Guss.) Link – Rechinger 13658: “Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: tables 28 and 29); R & BS 47712: “Along the road from the harbour to Kastri” (BC6); R & BS 47819: “Small stream near the NW point” (A4); R & BS 447847: “The NW point” (A34); R & BS 47861: “Sarakiniko” (B6); EB 95-33: B6-1; EB & AJ 94-3: B6-2; EB & AJ 94-92: A4-1; RJ obs. B7 – scattered, locally frequent

[***Triticum turgidum*** L. subsp. ***durum*** (Desf.) Husn.] – EB 95-105: C3-1; EB & AJ 94-42b: C6-1 – cultivated as field crop and subspontaneous in fallow fields

The nomenclature follows van SLAGEREN (1994).

Vulpia ciliata Dumort. subsp. ***ciliata*** – EB, RJ obs. C4 – scattered

Vulpia fasciculata (Forssk.) Fritsch – Rechinger 13657: “Sandstrand der Bucht Sarakiniko” (B6) (see also RECHINGER & RECHINGER-MOSER, 1951: table 28); R & BS 447844: “The NW point” (A34); R & BS 47868: “Sarakiniko” (B6); EB 95-31: B6-1; EB obs. A4, B7 – rare, but locally frequent

Iridaceae

Gladiolus italicus Miller – Dörfler 19 (*G. segetum* Gawl.): “unter Saaten”; Rechinger 13669: “bei Ambelos” (C3); EB, RJ obs. D6; EB obs. C3, C5, C6, D5 – scattered, locally abundant

Gynandriris monophylla Klatt – Dörfler 83: “auf Karstboden, mit der typischen Form” (i. e. *G. sisyrinchium*, *Iris sisyrinchium* L. var. *monophylla*) (see also GOLDBLATT, 1980); EB, RJ obs. B5; EB obs. A4, B7, C3, D56; RJ Photo: D6-4; RJ obs. C5, C6, E6 – rather common

Gynandriris sisyrinchium (L.) Parl. – EB, RJ obs. C5, D6; EB obs. C3, C5, C6, D5 – scattered

Juncaceae

Juncus heldreichianus Parl. subsp. ***heldreichianus*** – EB 95-166: A4-1; EB obs. E7-1 – rare

Juncus hybridus Brot. – Dörfler 49 (*J. bufonius* L. var. *congestus* Wahlenb.): “an Wasserlachen bei Kastri” (see also RECHINGER & RECHINGER-MOSER, 1951: 190); R & BS 47828: “Small stream near the NW point” (A4); EB & AJ 94-119: B5-1; EB 95-150: E7-1; EB 95-165: A4-1; EB 96-24: B7-2; RJ 960401-48: C6-1; RJ 960403-13: E7-1; EB obs. C5 – scattered

Liliaceae s.l.

[***Allium cepa*** L.] – EB & AJ 94-127: C6-4 – cultivated, sometimes persisting after cultivation

Allium longanum Pamp. – EB & AJ 94-68: D6-1; EB 95-144: D6-1; RJ 960402-18: C5-1; EB, RJ Photo: D6-4; EB obs. C4, C6 – scattered

Allium nigrum L. – Rechinger 13675: “unter Saaten”; EB 95-48: D56; EB 95-95: C3-1; EB obs. C5 – scattered

Variable, plants with green and black ovary were observed.

Allium rubrovittatum Boiss. & Heldr. – R & BS 47745: “2–4 km S–SW of Kastri (D5); R & BS 47814: “1–4 km NW of Kastri” (B4); EB, RJ obs. B7, C3; EB obs. A6, E7; RJ obs. B5, B6, C5, C6, D6 – common

Allium trifoliatum Cirillo – EB 95-96: C3-1; RJ 960401-18: C6-1; RJ 960403-05: D6-4; EB obs. C5, D5 – scattered

Asparagus aphyllus L. subsp. ***orientalis*** (Baker) P. H. Davis – EB & AJ 94-114: CD67; EB obs. C5, E7 – scattered

Asphodelus ramosus L. – EB, RJ obs. C5, C6, D6; EB obs. C3, C4, D5, E7; RJ obs. E6 – common

Bellevalia brevipedicellata Turrill – EB 95-62: D6-1; RJ s. n. (cultivated in the Botanical Garden of the University Regensburg): E6-1; EB, RJ obs. B6, C4, C6; EB obs. E7 – scattered

Colchicum pusillum Sieber – EB 95-127: B7-2; EB 96-25: B7-2; RJ 940529-08: B7-1; RJ 960401-03: C6-1; EB, RJ obs. C3, D6; EB obs. A4, A6, C5, D5, E7; RJ obs. B5, B6, C4 – common

The Gávdos population differs from specimens on the opposite Cretan coast of Sfakiá by their broader leaves exceeding 5 mm in width. Similar plants, however, are not uncommon in other parts of Kríti (e.g. EB 96-140 from the plain of Omalos)

Gagea fibrosa (Desf.) Schultes & Schultes fil. – EB 96-105: C3-1 – rare

Gagea graeca (L.) Terracc. – R & BS 47831: “The NW point” (A3); EB 96-20: B7-1; EB obs. C5; RJ photo: C5-1; RJ obs. C6, D6 – scattered, locally abundant

Gagea peduncularis (J. & C. Presl) Pascher – RJ 960403-06: D6-4 – rare

Muscari comosum (L.) Miller – EB 96-29: B7-1; EB, RJ obs. C6; EB obs. C3, C5, D5; RJ Photo: D6-4 – rather common

Muscari spreitzenhoferi (Osterm.) Vierh. – RJ 960403-16: E7-2; EB obs. C3 – rare

Ornithogalum arabicum L. – EB 95-143: D5-2 – rare

The status of this showy species which is said to be occasionally cultivated for ornament has often been considered doubtful in the Aegean (RECHINGER, 1943), or explicitly “subs spontaneous or casual” in Kríti (YANNITSAROS, 1991). For the latter island it is known only from an old record by Gandoger (RECHINGER, 1943) and a recent one near Rethimno (see TURLAND & al., 1993) where it is said to be naturalized in olive groves. However, there is no reason to doubt the native status of the single small population which was found on Gávdos.

Ornithogalum narbonense L. – R & BS 47724: “W of Kastri” (C4); EB & AJ 94-32: C6-1; EB 95-57: D6-3; RJ 940526-21: D6-1; EB obs. C3, C5, D5 – scattered

Prospero autumnale (L.) Salisb. s.l. (= *Scilla autumnalis* L.) – EB obs. A4, B7, C5; RJ obs. C4, C6, D6 – rather common

The nomenclature follows SPETA (1993).

Tulipa saxatilis Sprengel – Dörfler 164: “auf Äckern bei Ambelos” (C3); EB 95-109: C3-1; EB 96-85: D56; EB obs. C5-1 – very scattered

Urginea maritima (L.) Baker s.l. – EB, RJ obs. B6, B7, C5, C6, D6; EB obs. A4, A6, B4, C3, C4, D5, E7; RJ obs. B5, E6 – common

Orchidaceae

Aceras anthropophorum (L.) Aiton fil. – EB, RJ obs. C4, D6 – very scattered

Anacamptis pyramidalis (L.) L. C. M. Richard – *RJ 940526-12*: D6-1; EB, RJ obs. C6; EB obs. B7 – scattered

Limodorum abortivum (L.) Swartz – EB obs. B6, C6; RJ obs. D6 – scattered

Neotinea maculata (Desf.) Stearn – EB obs. D5 – rare

Ophrys apifera Hudson – *R & BS 47826*: “Small stream near the NW point” (A4); EB obs. C6 – rare

Ophrys episcopalis Poiret – *Dörfler 1152* (*O. fuciflora* Rchb. f. var. *maxima* Fleischm., FLEISCHMANN, 1925): “Karstboden”; EB, RJ obs. D6; EB obs. C6; RJ Photo: D6-4 – scattered

The observed plants had relatively small flowers.

Ophrys fusca agg. – *Dörfler 80* (“*typica*” sensu FLEISCHMANN, 1925): “Karstboden”; *Dörfler 42* (21/3/1904) (“var. *funerea* Viv.”, FLEISCHMANN, 1925); *RJ 940526-19*: D6-1; *RJ 940526-27*: D6-4; *RJ 940527-03*: B5-2; EB, RJ obs. C4, C5, C6; EB obs. B7, E7 – common

All plants seen had a small, twice geniculate labellum and can thus be referred to *Ophrys “cinereophila-fusca”* (PAULUS, 1988), a clearly distinguishable East Mediterranean taxon which has not yet been validly described, and which is widely distributed also on the Cretan mainland. The name *Ophrys funerea* Viv. refers to a taxon endemic to Corsica and Sardinia and cannot be applied to this taxon (PAULUS & GACK, 1995).

Ophrys mammosa Desf. – *Dörfler 474* (type of *O. doerfleri* Fleischmann): “Karstfelsen am Kap Kamarela” (E7) (see FLEISCHMANN, 1925; CAMPBELL, 1982; GÖLZ & REINHARD, 1985); *R & BS 47855*: “2–4 km N of Kastri” (B5); *RJ 940526-20*: D6-1; EB, RJ obs. C5, C6; EB obs. B6; RJ Photo: D6-5; RJ obs. B5 – scattered

As stated in the cited works the rostrum of the anther-connective in these plants is conspicuously long. Thus the Gávdos plants resemble *O. transhyrcana* Czern. *Ophrys cretica* (Vierh.) Nelson to which the name “*O. doerfleri*” is often referred does not occur on the island.

Ophrys sicula Tineo – *Dörfler 42* (“*Ophrys lutea* Cav.”): “Karstboden”; RJ obs. C3, C5 – very scattered

Ophrys tenthredinifera Willd. – EB, RJ obs. C6; RJ obs. C4, C5 – very scattered

Orchis collina Banks & Sol. – RJ obs. C4, C5, D6 – scattered

Orchis coriophora L. subsp. *fragrans* (Pollini) Sudre – EB, RJ obs. B7; EB obs. A6, C6 – scattered

Orchis italica Poiret – EB obs. C4 – rare

Orchis papilionacea L. – RJ obs. D6 – rare

Orchis quadripunctata Ten. – EB obs. C4 – rare

Serapias bergonii E. G. Camus – EB obs. C3, C6 – rare

Serapias orientalis E. Nelson – R & BS 47738: “2–4 km S–SW of Kastri” (D5); EB 95-54: D6-1; EB 96-52: C6-5; EB, RJ obs. C5; RJ obs. C4 – rather common

Potamogetonaceae s.l.

Posidonia oceanica (L.) Delile – EB obs. B6; mentioned by ICONOMOU (1989) from sea beds near Cape Tripiti (E7), Gaiduronisi (A3), and Karavé (C6) – scattered off the coasts

Ruppia maritima L. – RJ 960403-11: E7-1 – rare

According to TURLAND & al. (1993) there is no published post-1930 record for Kríti.

Zostera marina L. – mentioned by ICONOMOU (1989) from sandy sea beds near Karavé (C6)

Zannichelliaceae

Zannichellia pedunculata Reichenb. – Dörfler 44 (“*Zannichellia palustris* L.”): “in Wasserlächen bei Kastri” (see also RECHINGER & RECHINGER-MOSER, 1951: 190); EB 95-101: C4-1; EB 96-49: A4-1; RJ 960402-17: C4-1 – very scattered

Current floras generally refer to the Greek and Aegean representative(s) of the genus as *Z. palustris* L. Taxonomy and nomenclature here are according to TALAVERA & al. (1986). The species is given for Greece by TALAVERA & al. (1986: 266), based on a Heldreich collection from Attikí but is certainly much more widespread, and perhaps the commonest *Zannichellia* taxon in the country.

Chorological comments

Almost 60% of the flora of Gávdos belongs to the Mediterranean or East Mediterranean phytogeographical element (Fig. 2). Chorological relationships outside the Mediterranean are strongest with the Irano-Turanian and the Saharo-Arabian region. The Mediterranean/Oriental/Saharian element includes almost 20% of the flora. Widely distributed Euro-Siberian species as well as the pluriregional and the neophytic elements are poorly represented. The only recent adventive species is *Oxalis pes-caprae*. Compared to Kríti (see JAHN & SCHÖNFELDER, 1995: 26) the Aegean endemic element and particularly that of the Cretan area is less prominent on Gávdos. But this is easily explained since most of the small-area endemics of the Aegean are restricted to high mountains or to cliffs, the latter being poorly, the former not at all represented on Gávdos.

According to GREUTER (1971) when elaborating on his phytogeographical concept for the South Aegean area, Gávdos forms part both of what he defined as the “Cardaegean region” (comprising Cyclades and South Aegean islands excluding Kíthira and Ródos) and the “South Aegean” (South Aegean islands including Kíthira and Ródos). Within these phytogeographical regions, Gávdos joins the west Cretan subregion which is the nearest part of the main island.

Gávdos harbours 21 taxa endemic to the Aegean, or part thereof. By adopting Greuter's categories of endemics to these taxa, they may be subdivided to 3 steno-endemics (i.e., taxa confined to the west Cretan subregion); 4 pluriendemics (confined to various Cretan subregions); 6 Cardaegean endemics; 2 South Aegean endemics; 6 Aegean endemics. The three steno-endemics are:

Bellevalia brevipedicellata, known hitherto from southwestern Kríti (see distribution maps in TURLAND & al., 1993, and in PHITOS & al., 1996: 85), is found in many parts of Gávdos, in a variety of habitats, but hardly ever in large numbers.

Bupleurum gaudianum is the only endemic of Gávdos. This small annual was discovered by Runemark and B. Snogerup in 1980 and found by us throughout the island and locally abundant. Since it grows in a variety of both open and shrubland habitats we are glad to disagree with S. Snogerup (in PHITOS & al., 1996) who had considered this species as vulnerable.

Limonium elaphonisicum was only recently described by MAYER (1995) from the southwest Cretan coast close to the island of Elafónisos. Our finding is the second known locality.

Asperula rigida, *Limonium creticum*, *Muscari spreitzenhoferi* and *Ononis verae* are pluriendemics, while *Crepis cretica*, *Crepis tybakiensis*, *Filago cretensis*, *Nepeta melissifolia*, *Nigella doerfleri* and *Sedum creticum* (unless the latter is conspecific with *S. cyrenaicum* Brullo & Furnari from Libya as assumed by JAFRI & RATEEB, 1981) are restricted to the Cardaegean region. Only two species, viz., *Teucrium microphyllum* and *Tulipa saxatilis* (extending slightly to southwestern Anatolia) may be considered South Aegean endemics, whereas the following have a somewhat wider distribution, ranging to the northern Aegean region and/or to the adjacent mainlands: *Arenaria muralis*, *Crepis multiflora*, *Galium graecum* subsp. *graecum*, *Malcolmia flexuosa* subsp. *naxensis*, *Papaver purpureomarginatum* and *Phleum crypsoides*. *Ranunculus creticus*, believed to belong here, however, occurs in Libya as well (GREUTER & al., 1989), thus representing a group of taxa being native exclusively in the Aegean and North Africa. This group is particularly well represented on Gávdos.

The South Aegean region, viz., the dry southeastern part of Kríti and the islands Gávdos, Chrisi (Gaidouronisi) and Koufonisi south of the main island, is known for the considerable number of southerly distributed taxa which are missing, or almost so, in the adjacent continental parts of Greece and Turkey. They comprise both Saharo-Arabian and Irano-Turanian taxa (i.e., widely distributed in semi-desert areas in North Africa or Southwest Asia, or both) and true South Mediterranean taxa which are, in North Africa, confined to areas with Mediterranean climates, viz., the Gebel Akhdar area (Cyrenaica, Libya). BALDACCI in 1912 had already noted the floristic similarity of Kríti and Cyrenaica and mentioned Gávdos as an important phytogeographical link.

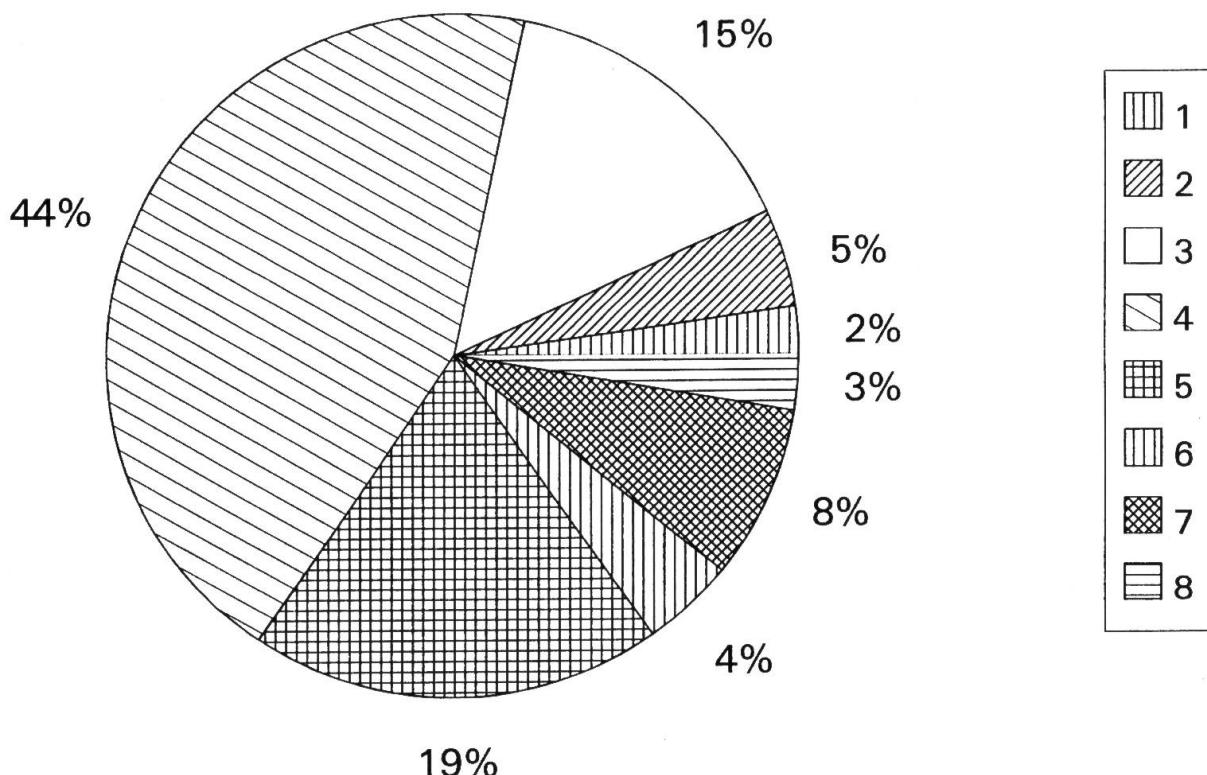


Fig. 2. – The phytogeographical elements in the flora of Gávdos. 1 = Cretan area endemics; 2 = Aegean area and adjacent regions; 3 = East Mediterranean; 4 = Mediterranean; 5 = Mediterranean/Oriental/Saharian; 6 = Mediterranean/Temperate Europe; 7 = Europe and further east; 8 = pluriregional, Cosmopolitan, introduced. Chorological data were chiefly taken from DAVIS (1965-1985), FEINBRUN-DOTHAN (1986), GREUTER & al., "Med-Checklist" (1984, 1986, 1989), PIGNATTI (1982) and ZOHARY (1966, 1972, 1978).

SANDWITH & SIMPSON (1941) commented that the flora of Cyrenaica is "related rather to Crete and Greece than to the adjacent deserts". RECHINGER (1949) enumerated "southern species" which the South Aegean islands had in common with North Africa. GREUTER (1971) listed 28 species with South Aegean semi-desert-type habitats. Eleven of them occur on Gávdos. Since then additional taxa have been found in Kríti which support strong ecological, and possibly historical phytogeographical links between the South Aegean and Gebel Akhdar, and our research on Gávdos revealed a few more. Four taxa represent an element known exclusively from the South Aegean and the opposite North African coast:

Allium longanum was considered a Libyan endemic by El-GADI (1977: 12) but has since become known from two Cycladean islands and the far northeast of Kríti (STEARNS, 1977, with distribution map). Our new finding on Gávdos consists of several but rather small populations totalling a few hundred flowering plants.

Callitricha pulchra occurs only in northeastern Libya (omitted by JAFRI, 1984) and on Gávdos where it had been collected by Dörfler (SCHOTSMAN, 1967). Our records some 90 years later are the first confirmation. Few populations exist on Gávdos which are vulnerable due to their small number and the instability of their habitat. Turland in PHITOS & al. (1996: 108) rightly draws attention to *C. pulchra* as a "Red Data species" but certainly errs concerning data on its habitat, ecology and potential threat.

Reseda odorata is considered native only to Libya, and in Europe to Gávdos (GREUTER & al., 1989), elsewhere occurring naturalized or as a rare escape from cultivation being grown as

an ornamental and for its fragrant flowers. On Gávdos, *R. odorata* occurs in both anthropogenic habitats and semi-natural rocky places.

Teucrium brevifolium is known from Cyrenaica (and adjacent northwestern Egypt) and the South Aegean extending to the southern Greek and southwestern Anatolian mainlands (BORA-TYNSKI & al., 1992: 259). In Kríti, it occurs mainly in the east. The species is not common on Gávdos and the plants are heavily browsed by goats.

The following taxa are also rare, and restricted in Greece to the South Aegean, but the non-European range is much larger than for the previously mentioned species, extending from North Africa to Southwest Europe and/or Southwest Asia, or beyond:

Aeluropus lagopoides is known in Europe only from Sicily, Malta and the Cretan area (several localities in the Karpathos archipelago by GREUTER & al., 1983, and RAUS, 1990; recent additions by MAYER, 1995, to the known occurrences in Kríti – see TURLAND & al., 1993). There is a single population on Gávdos near Cape Tripítí which had not previously been recorded.

Aizoon hispanicum does not occur on the Greek mainland nor on the islands except Kríti where it was once recorded in the southcentral part (JALAS & SUOMINEN, 1980: 102). It was first found on Gávdos by Runemark and B. Snogerup, and since confirmed by us in few places in the central and northeastern part of the island.

Artemisia herba-alba was also discovered on Gávdos by Runemark and B. Snogerup (reported by GREUTER, MATTHÄS & RISSE, 1984). This is the only Greek population and other than its occurrence in the Iberian peninsula, the only European one. It is restricted to a small area north of Kastrí where it is threatened by potential roadmaking rather than by browsing as stated by Turland in PHITOS & al. (1996).

Astragalus sinaicus is very scattered in Greece and the Aegean and was previously known in Kríti only from the small island of Chrisi off the southeast coast (RECHINGER, 1944). However, it also occurs along the southcentral and southeast coast of Kríti (RJ, unpubl.). Our records are the first for Gávdos where it grows in very small numbers in various localities.

Astragalus epiglottis subsp. *epiglottis* is widely distributed in the South Mediterranean but is apparently rare both in Greece and the Aegean. Reports for the Cretan area are based on a Pichler collection from 1883 made on Karpathos (RECHINGER, 1943: 319); this occurrence has not been confirmed since (GREUTER & al., 1983; TURLAND & al., 1993). The single, rather small population found on Gávdos is endangered by accidental destruction of its habitat; it represents the first record for Kríti.

Chlamydophora tridentata is found in North Africa from Tunisia to Egypt, extending to Palestine, and is reported, moreover, from Cyprus and Ródos (GRIERSON, 1975; CARLSTRÖM, 1987). The occurrence on Gávdos, first reported by Dörfler, and now confirmed after 90 years, is the only one in the Flora Europaea area.

Erodium cicutarium subsp. *bipinnatum* belongs to a group of closely related taxa in need of further taxonomic studies. It is treated by GUITTONNEAU (1972) as a species, *E. aethiopicum* (Lam.) Brumh. & Thell., also by GREUTER & al. (1986), and is said to be distributed in Morocco, Tunisia and Algeria. Another subspecies occurs on the Southwest European Atlantic coasts. GHAFOOR (1978) mentions forms of *E. cicutarium* without a furrow below the pit of the mericarp which occur in Libya; these might represent subsp. *bipinnatum*. For the East Mediterranean area, two records from the South Anatolian coast and the East Aegean island of Kos are cited by DAVIS (1967: 486) but not commented on by DAHLGREN (1980) who gives only *E. cicutarium* s. str. for the Aegean. Our subspecies may nevertheless be more widespread in the South Aegean as it is easily confused with the type subspecies. On Gávdos, both taxa often grow together. *E. cicutarium* subsp. *bipinnatum* prefers sandy coastal habitats (see also GUITTONNEAU, 1972: 105, “psammophile des dunes fixées (clairières des pinèdes)” and DAVIS, 1967: 486, “sand dunes, beaches”).

Gynandriris monophylla ranges from Cyrenaica to Palestine. In Europe, it is known only from southern Greece (Attica, Egina, Kríti; see distribution map in GOLDBLATT, 1980: 255). The Gávdos population of this taxon is rather large, as are those from the opposite Cretan coast seen by us: between Elafónisos and Paleochora, and along the Sfakiá coast (BERGMÉIER & MATTHÄS, 1995).

Helianthemum stipulatum is a widespread North African-Irano-Turanian taxon which only just reaches Europe on the islands Chrisi (Gaidouronísi) and Koufonísi (RECHINGER, 1944; TURLAND & al., 1993) as well as the coast of southeast Kríti (MAYER, 1995) (beside one old record from Élis/Peloponnese quoted by RECHINGER, 1944: 80, sub *H. ellipticum* (Desf.) Pers.). With our records on Gávdos, the species is known to occur on three islands south of Kríti and in one station on the main island. The Gávdos plants were found in two locations in the northeast, the habitats being endangered and likely to be destroyed by uncontrolled touristic development.

Matricaria aurea occurs in the southern part of the Iberian peninsula, Sicily, Malta and Lampedusa, as well as in North Africa and Southwest Asia. The closest occurrence to our records which are the first for Greece is in Libya (ALAVI, 1983). It was also found on the southwest Anatolian Marmaris peninsula by CARLSTRÖM (1987).

Periploca angustifolia, otherwise known from Spain, Sicily, Malta and North Africa, is in Greece restricted to the islands Gávdos and Chrisi (RECHINGER, 1944; BORATYNSKI & al., 1992: 167). We found it throughout the island but never in large numbers. Although to some degree browsed, the Gávdos population is not threatened by grazing whereas building of tourist facilities may pose a threat to shrubs in dune habitats. The species is therefore appropriately considered vulnerable in Greece by Turland in PHITOS & al. (1996: 406f.).

Plantago squarrosa, an eastern Mediterranean taxon, is in Europe confined to Greece and the Aegean area. The Cretan records refer to the islands of Elafónisos and Gávdos. Though occurring in large numbers this psammophyte must be considered threatened due to potential tourist development in the area.

Silene succulenta subsp. *succulenta* occurs on the North African and Near East coasts, reaching Europe only in the southernmost Aegean region where it is restricted to four islands south, or southwest, of Kríti, viz., Elafónisos, Gávdos, Chrisi and Koufonísi (see distribution map in PHITOS & al., 1996: 473). *S. succulenta* is clearly threatened by increasing beach tourism.

Other taxa with a chiefly South Mediterranean distribution range occur on Gávdos but most are somewhat wider distributed and less rare in the Aegean than those previously listed. The following deserve special mention: *Anchusa aegyptiaca*, *Carduncellus caeruleus*, *Centaurea melitensis*, *Cistus parviflorus*, *Convolvulus oleifolius*, *Crassula vaillantii*, *Crepis pusilla*, *Didesmus aegyptius*, *Erodium laciniatum*, *Juniperus macrocarpa*, *Lotus halophilus*, *Malcolmia africana*, *Malva aegyptia*, *Ononis hispanica* subsp. *hispanica*, *Ononis sieberi*, *Ornithogalum arabicum*, *Plantago albicans*, *Silene behen*, *Silene fruticosa*, *Spergularia diandra* and *Triplachne nitens*.

GREUTER's (1971) phytogeographical concept is supported by our comparisons of floristic similarities between Gávdos and surrounding regions (Fig. 3). Gávdos has 94% of its taxa in common with western Kríti, and 91% with the central and eastern parts of the main island. It shares well over 80% with Karpathos and only slightly less with Ródos. Kíthira in the northwest and the southwest Anatolian Marmaris peninsula in the northeast which is much more distant have somewhat less species in common with Gávdos than Libya in the south. Further behind are the southernmost Peloponnese which is represented in our figure by the small island of Elafónisi, about 200 km from Gávdos, and the Maltese islands almost 1000 km to the far west. Approximately 60% of the Gávdos species occur in each of them.

The percentage values (and absolute numbers) as displayed in Fig. 3 indicate that the phytogeographical connections via the South Aegean island arc are much stronger northeastward than northwestward. The links to North Africa are more pronounced than one might expect from the fact that there is no land between Gávdos and the Libyan coast. The southern connection is

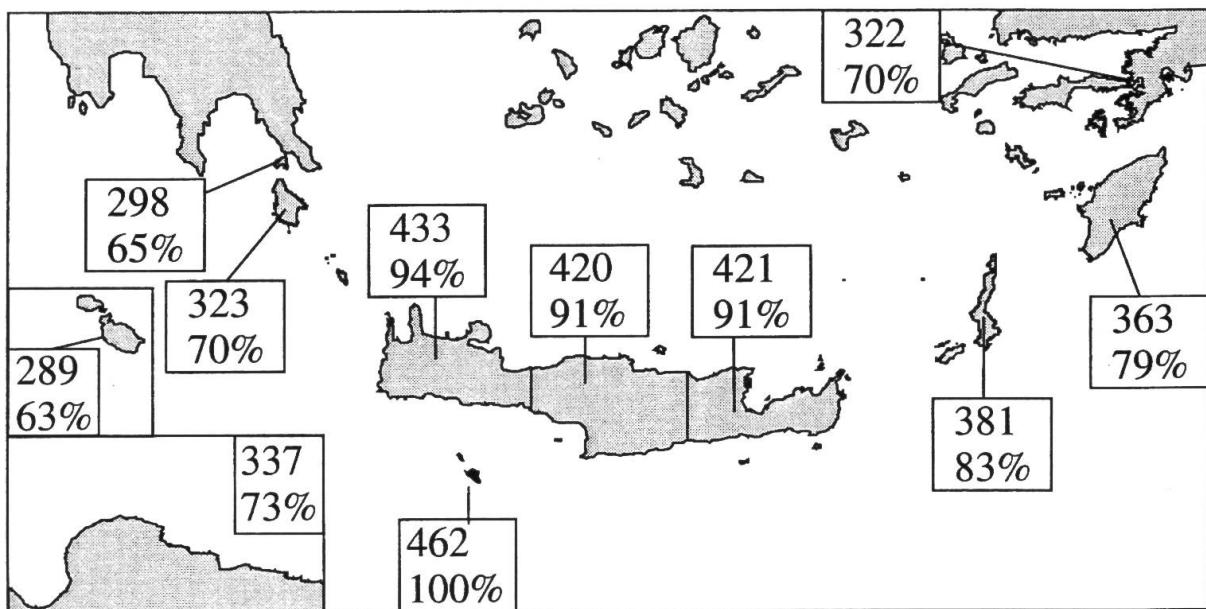


Fig. 3. – Phytogeographical connections between Gávdos and surrounding regions. The figures indicate absolute numbers and percentage values of the Gávdos flora present in the respective areas. Sources beside unpublished data of RJ: ALI & JAFRI (1976-1977), JAFRI & EL-GADI (1977-1986), EL-GADI (1988-1990), CARLSTRÖM (1987), GREUTER & RECHINGER (1967), GREUTER & al., "Med-Checklist" (1984, 1986, 1989), HASLAM & al. (1977), JAGEL (1992), SCHEMBRI & SULTANA (1989), TURLAND & al. (1993) and YANNITSAROS (1969).

indeed not less pronounced than the northwestern one. Although Kíthira is less distant than Cyrenaica – 180 vs 250 km – and there is Kríti and Antikíthira along the route, the floristic similarity, however insufficient present knowledge of the respective floras may be, is slightly weaker than with Libya. Since there were no land connections between the African continent and the South Aegean after the return of the Mediterranean Sea in Pliocene, the striking degree of floristic representation of Gávdos species in northern Libya may be interpreted rather by ecological than by historical phytogeography. Finally, the relatively high percentage of Gávdos species present on the Maltese islands may also be caused by similar habitat conditions and plant communities. The latter remain to be described in the second part of this work.

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