

Microfungi Identified from the Flora of Ordu Province in Turkey

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Abstract: In this study, 101 species of microfungi and their hosts, which were found in Ordu Province are described. The research was carried out between 2002 and 2004. Approximately 1465 vascular plant specimens, plants infected with microfungi or not, were collected from the area. At the end of the study of the host plants, 35 families, 114 genera, and 138 host plant species (151 taxa) were established. The 101 species of microfungi were observed on the collected host specimens. These species belong to 23 genera and 13 families; 24 species belong to *Ascomycota*, 73 to *Basidiomycota*, and 4 to *Mitosporik Fungi (Deuteromycota)*. One microfungus is given only at the generic level and 6 species are new records for Turkey.

Key Words: Microfungi, new records, parasite, Ordu, Turkey

Ordu Yöresi Mikrofungusları

Özet: Bu makalede Ordu il sınırları içerisinde bulunan 101 mikrofungus türü ve konakçıları tanımlanmıştır. Araştırma 2002 ve 2004 yılları arasında yapılmıştır. Alandan yaklaşık olarak mikrofungusla enfekte olmuş ve enfekte olmamış 1465 kadar vasküler bitki örneği toplanmıştır. Bu konakçı örnekler üzerinde yapılan çalışmalar sonucunda 35 familya ve 114 genusa ve 138 tür (151 takson) tespit edilmiştir. Toplanan konakçı örnekler üzerinde 101 mikrofungus türü tespit edilmiştir. Bu türler 23 genus ve 13 familya ya dahildir. 24 tür *Ascomycota*, 73 tür *Basidiomycota*, 4 tür *Mitosporik Fungi (Deuteromycota)*'ya dahildir. Bir mikrofungus örneği genus düzeyinde verilmiştir. 6 tür Türkiye için yeni kayıttır.

Anahtar Sözcükler: Mikrofungus, yeni kayıt, parazit, Ordu, Türkiye

Introduction

The identification of the parasitic fungal flora of a region is the first and most important step in controlling fungal disease. In the past, research on microfungi living on natural vascular plants in Turkey was poor. During the last decade, research about this subject has increased (Bahcecioglu & Isiloglu, 1995; Bahcecioglu & Yildiz, 1996, 2001, 2005; Bahcecioglu, 1997, 1998, 2001; Bahcecioglu & Gjærum, 2003, 2004; Kabaktepe & Bahcecioglu, 2005.), though much work remains to be done. The aim of the present study was to identify microfungi on vascular plants in Ordu Province and to fill in some of the gap left by previous work on this subject.

This study was conducted in Ordu Province between 2002 and 2004. The province is located in the central Black Sea region of Turkey (Euxinic Province of the Euro-Siberian phytogeographical region). The study area is a mountaineous region, but elevation is moderate. There are some plateaus between the mountains, such as Çambaşı and Perşembe. According to the grid square system adopted by Davis in Flora of Turkey, Ordu is located in the squares A6 and A7 (Figure 1). The climate of the province is oceanic. It is rainy during all 4 seasons.

Ordu has a rich vascular plant flora. It is known that richness of host species is an important factor in the diversity of microfungi and for this reason, the province is rich in microfungi.

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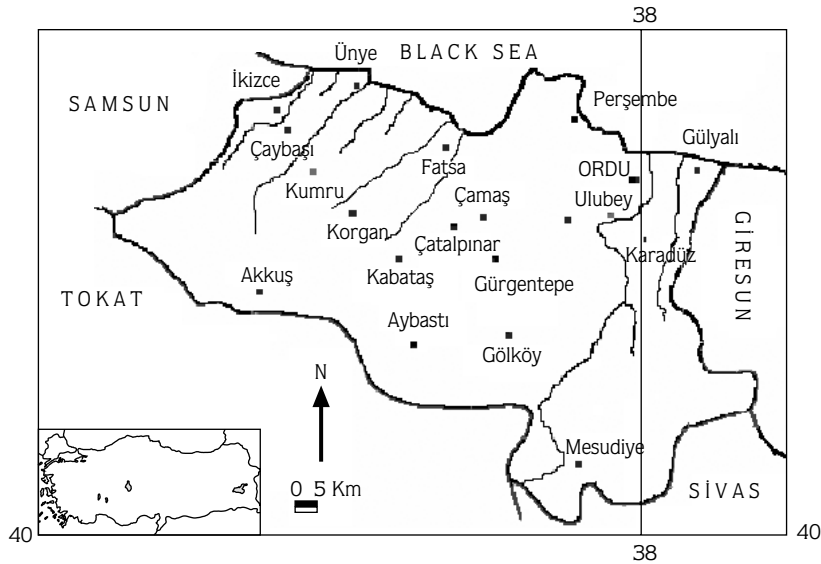


Figure 1. Map of Ordu Province

Materials and Methods

Infected host plants were collected between 2002 and 2004 in Ordu Province. In total, 1465 vascular plant specimens were collected. The Flora of Turkey (Davis, 1965-1985; Davis et al., 1988) was the main source used for the identification of the host specimens. Some doubtful identification was checked using Flora Europaea (Tutin et al., 1964-1980), Flora of Iraq (Townsend & Guest, 1966-1988), and Flora Iranica (Rechinger, 1967-1988). The fungal specimens were isolated from the plant material either by scraping, or thin sections were obtained with a razor. These were mounted in lactophenol and identified using the relevant literature (Grove, 1935, 1967; Wilson & Henderson, 1966; Kubreviç & Uliyanisev, 1975; Uliyanisev, 1978; Tomilin, 1979; Azbukina, 1984; Mordue & Ainsworth, 1984; Uliyanisev et al., 1985; Braun, 1987; Vanky, 1987, 1994; Denchev, 1995; Cummins & Hiratsuka, 2003). After the identification of the fungi, the specimens were deposited in the herbarium of İnönü University.

The taxa are listed in the Appendix in alphabetical order. The data include:

- i. The legitimate name (in bold) and the author of the microfungus species.
- ii. The legitimate name (in italic) and author of the host species.

- iii. Family of the host species in parentheses.
- iv. The location of specimen collection. The localities are described in as much detail as possible.
- v. New records are marked with an asterisk.

The author abbreviations of vascular plants are according to Brummit and Powell (1992) and those of the fungi are according to Kirk and Ansell (1992).

Results and Discussion

At the conclusion of the study, 1465 vascular plant specimens, including those infected with microfungi and associated uninfected reference material were collected from the area. It was established that they belonged to 138 host plant species (151 taxa) in 114 genera and 35 families. Due to inadequate materials, some host specimens were not identified at the specific level and 15 host specimens are listed at the generic level in the Appendix.

Some large host families, in terms of species numbers, are given in Table 1 in which it can be seen that 6 families, namely *Asteraceae*, *Fabaceae*, *Poaceae*, *Rosaceae*, *Lamiaceae*, and *Apiaceae* contain 73 (64%) of the 114 genera and 88 (65%) of the 134 host species. These 6 families are common in Ordu Province and, therefore, the microfungi that are found on these families are also common.

Table 1. The host genera and species totals of the major families.

Families	Number of Genera	Spp. number	Spp. %
<i>Asteraceae</i>	23	24	18
<i>Fabaceae</i>	14	20	15
<i>Poaceae</i>	14	18	14
<i>Rosaceae</i>	8	11	8
<i>Apiaceae</i>	8	8	6
<i>Lamiaceae</i>	6	7	5
Other families (29)	41	46	34
TOTAL	114	134	100

In the second phase of the study, the 101 microfungi species found on the hosts were identified and found to belong to 23 genera and 13 families of the *Ascomycota*, *Basidiomycota*, and *Mitosporic Fungi*. One specimen of *Septoria* (*Mitosporic Fungi*) could only be identified by genus, resulting in a total of 102 species of microfungi in the area. The genera and the species belonging to the divisions are given in Table 2. The genus that wasn't determined at the species level is given in parentheses.

Table 2. The number of genera and species of the divisions.

Divisions	Number of genera	Number of species
<i>Basidiomycota</i>	11	73
<i>Ascomycota</i>	8	24
<i>Mitosporic Fungi</i>	4	4 + (1)
TOTAL	23	101 + (1)

Table 4. Genera and species totals of the families found in the study area.

Families	Number of genera	Number of species	Families	Number of genera	Number of species
<i>Pucciniaceae</i>	3	53	<i>Ustilaginaceae</i>	1	1
<i>Erysiphaceae</i>	6	22	<i>Mycosphaerellaceae</i>	1	1
<i>Phragmidiaceae</i>	1	7	<i>Pucciniastraceae</i>	1	1
<i>Melampsoraceae</i>	1	4	<i>Uropyxidaceae</i>	1	1
<i>Coleosporiaceae</i>	1	3	<i>Phyllachoraceae</i>	1	1
<i>Sphaeropsidaceae</i>	3	4	TOTAL	22	101
<i>Anthracoideaceae</i>	1	2	Incertae sedis	1	1
<i>Melanconiaceae</i>	1	1	TOTAL	23	102

The main reason for the substantial presence of species belonging to the subdivision *Basidiomycotina* is that this includes some of the genera, such as *Puccinia* Pers. and *Uromyces* (Link) Unger, which have many species and are distributed worldwide. Of the 102 microfungi species, 3 are saprophytes. Saprophyte species and species belonging to the division are given in Table 3.

Table 3. Saprophyte species and their divisions.

Species	Division
<i>Mycosphaerella populi</i>	<i>Ascomycota</i>
<i>Colletotrichum circinans</i>	<i>Ascomycota</i>
<i>Phoma leguminum</i>	<i>Mitosporic Fungi</i>

The species identified in the research area belong to 13 families and 1 species belongs to *Incertae Sedis*. These families are listed in Table 4. The genera and the species numbers of these families are shown in the same table.

The largest family is *Pucciniaceae*, of which we found 53 species in the study area. As seen from Table 4, 4 families, namely *Pucciniaceae*, *Erysiphaceae*, *Phragmidiaceae*, and *Melampsoraceae* include 86 species. In other words, 85% of the microfungi known from Ordu province belong to 4 families. The remaining 9 families contain 15 species and 1 species belongs to *Incertae sedis*. According to species numbers, the largest

genera in the research area are *Puccinia* Pers. (37 species), *Uromyces* (Link) Unger (15 species), *Erysiphe* R. Hedw. ex DC., (14 species), *Phragmidium* Link (7 species), and other genera (28 species). These 5 genera contain 73 (72%) species (Table 5). These genera contain many species and most of the species belonging to these genera are common throughout the world.

Table 5. Species totals of the largest genera in the study area.

Genera	Species total
<i>Puccinia</i>	37
<i>Uromyces</i>	15
<i>Erysiphe</i>	14
<i>Phragmidium</i>	7
Others	29
TOTAL	102

Table 6 lists the 12 host families, which include most of microfungi species. The families listed in Table 6 are rich in species and are quite common.

Puccinia graminis Pers. subsp. *graminis* was found on 16 host species, *Leveillula taurica* (Lév.) G. Arnaud was found on 11, *Uromyces pisi-sativi* (Pers.) Liro on 7, and *Erysiphe cichoracearum* DC. var. *cichoracearum*, *E. pisi* DC. var. *pisi*, and *Puccinia calcitrapae* DC. were found on 6 host species (Table 7). These species have a wide range of host species.

Table 6. The numbers of microfungi species found on the host families.

Families of host species	Number of microfungi species	Families of host species	Number of microfungi species
<i>Asteraceae</i>	20	<i>Rubiaceae</i>	5
<i>Fabaceae</i>	13	<i>Caryophyllaceae</i>	4
<i>Rosaceae</i>	11	<i>Scrophulariaceae</i>	4
<i>Poaceae</i>	6	<i>Polygonaceae</i>	4
<i>Lamiaceae</i>	5	<i>Liliaceae</i>	3
<i>Apiaceae</i>	5	<i>Cyperaceae</i>	3

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Table 7. Some fungi and numbers of host species.

Microfungi species	Number of host species
<i>Puccinia graminis</i> subsp. <i>graminis</i>	16
<i>Leveillula taurica</i>	11
<i>Uromyces pisi-sativi</i>	7
<i>Erysiphe cichoracearum</i> var. <i>cichoracearum</i>	6
<i>Erysiphe pisi</i> var. <i>pisi</i>	6
<i>Puccinia calcitrapae</i>	6

Six species out of the 102 identified from the study area are new records for Turkey. An additional 7 species have only been recorded recently (Kabaktepe & Bahçecioğlu, 2005). These records show that further study on the mycoflora of Turkey is needed. For future studies on microfungi, 1465 specimens were added to the herbaria.

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APPENDIX

List of microfungi found in Ordu Province. The sequences of families, genera, and species in the following list are in alphabetical order. The taxa above families are given according to Hawksworth et al. (1995).

Kingdom: FUNGI

Div. ASCOMYCOTA

Dothideales

1. 1. *Mycosphaerella populi* (Auersw.) J. Schröt.

Populus tremula L. (Salicaceae)

A6 Ordu: Ulubey, Akpınar village, 250 m, 19. Jun. 2002, S.Kabaktepe 1234; A6 Ordu: Mesudiye, 1200 m, 04. Jul. 2003, S.Kabaktepe 2404; A6 Ordu: Uzunisa village, 15 m, 05. Jul. 2004, S.Kabaktepe 3552.

Erysiphales

2. 2. *Blumeria graminis* (DC.) Speer

Avena barbata Pott ex Link subsp. *barbata* (Poaceae)

A6 Ordu: 8 km from Çatalpınar to Çamaş, 600 m, 21. Jun. 2002, S.Kabaktepe 1280.

Bromus japonicus Thunb. (Poaceae)

A6 Ordu: Ulubey, Akpınar village, 250 m, 19. Jun. 2002, S.Kabaktepe 1236, A6 Ordu: 15 km from Ünye to Akkuş, 100 m, 20. Jun. 2002, S.Kabaktepe 1259.

Dactylis glomerata L. (Poaceae)

A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19. Sep. 2002, S.Kabaktepe 2174.

Hordeum bulbosum L. var. *bulbosum* (Poaceae)

A6 Ordu: 20 km from Gököy to Mesudiye, 940 m, 23. Jul. 2002, S.Kabaktepe 1470; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08. Jul. 2004, S.Kabaktepe 3695.

3. 3. *Erysiphe betae* (Vaňha) Weltzien

Rumex alpinus L. (Polygonaceae)

A6 Ordu: 30 km from Gököy to Mesudiye, 1150 m, 23. Jul. 2002, S.Kabaktepe 1474;

Polygonum bellardii All. (Polygonaceae)

A6 Ordu: 8 km from Kabataş to Çatalpınar, 550 m, 18 Sep. 2002, S.Kabaktepe 2035; A6 Ordu: Çamaş, Eserbey village, 210 m, 18 Sep. 2002, S.Kabaktepe 2075; A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2152; A6 Ordu: 10 km from Mesudiye to Gököy, 1150 m, 05 Jul. 2003, S.Kabaktepe 2445; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2848; A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Jul. 2003, S.Kabaktepe 2883; A6 Ordu: Ordu, Uzunisa village, 20 m, 03 Sep. 2003, S.Kabaktepe 2921; A7 Ordu: Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3020.

Polygonum persicaria L. (Polygonaceae)

A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1391; A6 Ordu: 15 km from Fatsa to Çatalpınar, 40 m, 24 Jul. 2002, S.Kabaktepe 1519; A6 Ordu: 7 km from Ulubey to Gürgentepe, 820 m, 21 Sep. 2002, S.Kabaktepe 2318; A6 Ordu: 3 km from Ünye to Akkuş, 7 m, 01 Sep. 2003, S.Kabaktepe 2796; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2855; A6 Ordu: 5 km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2904; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3028.

4. E. *biocellata* Ehrenb.

Ziziphora capitata L. (Lamiaceae)

Ordu: 15 km from Akkuş to Niksar, 1200 m, 04. Jul. 2004, S.Kabaktepe 3522.

5. E. *cichoracearum* DC. var. *cichoracearum*

Cichorium intybus L. (Asteraceae)

A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05. Jul. 2003, S. Kabaktepe 2419; A6 Ordu: Uzunisa village, 20 m, 03. Sep. 2003, S.Kabaktepe 2932.

Hieracium sp. L. (Asteraceae)

A6 Ordu: 20 km from Akkuş to Kumru, 850 m, 20. Sep. 2002, S.Kabaktepe 2228.

Inula vulgaris Trevis. (Asteraceae)

A7 Ordu: 1 km from Ordu to Gülyalı, 5 m, 20 Jul. 2002, S.Kabaktepe 1318, A6 Ordu: 5 km from Ordu to Ulubey, 8 m, 03

Aug. 2003, S.Kabaktepe 2909; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3032.

Picris hieracioides L. (Asteraceae)

A6 Ordu: Ulubey, Fındık village, 380 m, 19. Jun. 2002, S.Kabaktepe 1221.

Senecio vernalis Waldst. & Kit. (Asteraceae)

A6 Ordu: Ordu city graveyard, 5 m, 08 Jul. 2003, S.Kabaktepe 2527.

Taraxacum F.H.Wigg. (Asteraceae)

A6 Ordu: 3 km from Ünye to Akkuş, 7 m, 01. Sep. 2003, S.Kabaktepe 2805.

6. E. *convolvuli* DC.

Convolvulus arvensis L. (Convolvulaceae)

A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1407; A6 Ordu: Aybastı, Perşembe plateau, 1500 m, 17 Sep. 2002, S.Kabaktepe 1988; A6 Ordu: 5. km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2847; A6 Ordu: 5. km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2912; A7 Ordu: Gülyalı Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3029.

7. E. *cruciferarum* Opiz ex L. Junell

Thlaspi perfoliatum L. (Brassicaceae)

A6 Ordu: Aybastı, Perşembe plateau, 1650 m, 24 Jul. 2002, S.Kabaktepe 1559.

Alyssum hirsutum M.Bieb. (Brassicaceae)

A6 Ordu: Perşembe, Mersin village, 120 m, 21 Jul. 2002, S.Kabaktepe 1385; A6 Ordu: Aybastı, Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1970; A6 Ordu: 7 km from Akkuş to Niksar 1290 m, 04 Jul. 2004, S.Kabaktepe 3483; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3675; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3723.

8. E. *depressa* (Wallr.) Schltldl.

Arctium minus (Hill) Bernh. subsp. *minus* (Asteraceae)

A6 Ordu: Çatalpınar, Elma village, 170 m, 18 Sep. 2002, S.Kabaktepe 2067; A6 Ordu: 10 km from Gököy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2975.

9. E. galeopsidis DC.*Lamium sp. L. (Lamiaceae)*

A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2149; A6 Ordu: 10 km from Gökçöy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2982; A6 Ordu: 7 km from Ordu to Ulubey, 80 m, 04 Jul. 2004, S.Kabaktepe 2994; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul 2004, S.Kabaktepe 3738.

10. E. galii S. Blumer var. galii*Galium verum L. (Rubiaceae)*

A6 Ordu: 15 km from Akkuş to Niksar, 1200 m, 04 Jul. 2004, S.Kabaktepe 3514; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3536.

11. E. heraclei DC.*Daucus carota L. (Apiaceae)*

A6 Ordu: 5. km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2902.

Eryngium giganteum M.Bieb. (Apiaceae)

A6 Ordu: Ünye, Killik village, 12 m, 31 Aug. 2003, S.Kabaktepe 2772.

Scandix iberica M.Bieb. (Apiaceae)

A6 Ordu: 30 km from Fatsa to Kumru, 230 m, 25 Jul. 2002, S.Kabaktepe 1631; A6 Ordu: 7 km from Akkuş to Niksar, 1290 m, 04 Jul. 2004, S.Kabaktepe 3481; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3729.

Torilis arvensis Link (Apiaceae)

A6 Ordu: 30 km from Gökçöy to Mesudiye, 1150 m, 23 Jul. 2002, S.Kabaktepe 1471; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3689.

12. E. lycopsidis R.Y. Zheng & G.Q. Chen*Anchusa leptophylla Roem. & Schult. (Boraginaceae)*

A6 Ordu: 10 km from Mesudiye to Gökçöy, 990 m, 21 Aug. 2002, S.Kabaktepe 2382.

13. E. pisi DC. var. pisi*Astragalus ponticus Pall. (Fabaceae)*

A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3717.

Lathyrus roseus Stev. (Fabaceae)

A6 Ordu: Çamaş, Kocaman village, 450 m, 24 Jul. 2002, S.Kabaktepe 1525; A6 Ordu: 10 km from Mesudiye to Gökçöy, 150 m, 05 Jul. 2003, S.Kabaktepe 2447.

Melilotus neapolitana Ten. ex Guss. (Fabaceae)

A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2182.

Medicago lupulina L. (Fabaceae)

A6 Ordu: Aybastı, Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1977; A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2180; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2369;

Trifolium pratense L. (Fabaceae)

A6 Ordu: Ünye, Dumantepe village, 1220 m, 19 Sep. 2002, S.Kabaktepe 2158; A6 Ordu: 25 km from Kumru to Akkuş, 920 m, 20 Sep. 2002, S.Kabaktepe 2265; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2371.

Vicia freyniana Bornm. (Fabaceae)

A6 Ordu: Çamaş, Kocaman village, 450 m, 24 Jul. 2002, S.Kabaktepe 1526; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3672.

14. E. sordida L. Junell*Plantago lanceolata L. (Plantaginaceae)*

A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2191; A6 Ordu:

Ordu, Uzunisa village, 20 m, 03 Jul. 2003, S.Kabaktepe 2929.

15. E. tortilis (Wallr.) Fr.*Cornus mas L. (Cornaceae)*

A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002, S.Kabaktepe 2107.

16. E. urticae (Wallr.) S. Blumer*Urtica dioica L. (Urticaceae)*

A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2357.

4. 17. Leveillula taurica (Lév.) G. Arnaud*Alcea hohenackeri Boiss. (Malvaceae)*

A6 Ordu: 5 km from Çaybaşı to Tekkiraz, 290 m, 19 Sep. 2002, S.Kabaktepe 2122; A6

Ordu: Kumru, İslamdag village, 220 m, 20 Sep. 2002, S.Kabaktepe 2277; A6 Ordu: Ünye, Hanyanı village, 60 m, 31 Aug. 2003, S.Kabaktepe 2785.

Astragalus ponticus Pall. (Fabaceae)

A6 Ordu: 10 km from Mesudiye to Koyulhisar, 1550 m, 21 Sep. 2002, S.Kabaktepe 2392.

Centaurea L. (Asteraceae)

A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1986a.

Chondrilla juncea L. var. juncea (Asteraceae)

A6 Ordu: 30 km from Başçiftlik to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1961; A6 Ordu: 8 km from Kabataş to Çatalpınar, 550 m, 18 Sep. 2002, S.Kabaktepe 2032.

Cichorium intybus L. (Asteraceae)

A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2862.

Cucurbita pepo L. (Cucurbitaceae)

A6 Ordu: 10 km from Mesudiye to Gökçöy, 990 m, 21 Sep. 2002, S.Kabaktepe 2381; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2851; A6 Ordu: 5 km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2913.

Digitalis lamarckii Ivanina (Scrophulariaceae)

A6 Ordu: 1 km from Mesudiye to Gökçöy, 1150 m, 21 Sep. 2002, S.Kabaktepe 2387.

Eryngium giganteum M.Bieb. (Apiaceae)

A6 Ordu: 10 km from Mesudiye to Gökçöy, 990 m, 21 Sep. 2002, S.Kabaktepe 2376.

Inula vulgaris Trevis. (Asteraceae)

A6 Ordu: 5 km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2905.

Lactuca scariola L. (Asteraceae)

A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Aug 2003, S.Kabaktepe 2887; A6 Ordu: 5 km from Ordu to Ulubey, 8 m, 03 Aug. 2003, S.Kabaktepe 2916.

Scariola orientalis (Boiss.) Soják (Asteraceae)

A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1980.

18. *L. verbasci* (Jacz.) Golovin
Verbascum sp. L. (*Scrophulariaceae*)
A6 Ordu: Çamaş, Kocaman village, 450 m, 24 Jul. 2002, S.Kabaktepe 1528b.
- *5. 19. *Microsphaera hypophylla* Nevod.
Quercus petraea (*Mattuschka*) Liebl. var. *petraea* (*Fagaceae*)
A6 Ordu: 1 km from Ordu to Ulubey, 500 m, 21 Sep. 2002, S.Kabaktepe 2310; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2363; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2842.
6. 20. *Phyllactinia guttata* (Wallr.) Lév.
Fagus orientalis Lipsky (*Fagaceae*)
A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2374.
7. 21. *Sphaerotheca fusca* (Fr.) S. Blumer
Leontodon hispidus L. var. *hispidus* (*Asteraceae*)
A6 Ordu: 10 km from Mesudiye to Gököy, 1150 m, 05 Jul. 2003, S.Kabaktepe 2440.
Taraxacum sp. F.H.Wigg. (*Asteraceae*)
A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2189; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3015.
Xanthium spinosum L. (*Asteraceae*)
A6 Ordu: 1 km from Kabataş to Çatalpınar, 220 m, 18 Sep. 2002, S.Kabaktepe 2051; A6 Ordu: Çatalpınar, Elma village, 170 m, 18 Sep. 2002, S.Kabaktepe 2066; A6 Ordu: Ordu, Uzunisa village, 80 m, 21 Sep. 2002, S.Kabaktepe 2294; A6 Ordu: Ünye, Çatalpınar village, 120 m, 01 Aug. 2003, S.Kabaktepe 2812; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2849.
22. *S. pannosa* (Wallr.) Lév.
Rosa canina L. (*Rosaceae*)
A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1399; A6 Ordu: Perşembe, Mersin village, 35 m, 07 Jul. 2004, S.Kabaktepe 2481; A6 Ordu: Perşembe, Ramazan village, 210 m, 07 Jul. 2004, S.Kabaktepe 2490.

23. *S. plantaginis* (*Castagne*) L. Junell
Plantago lanceolata L. (*Plantaginaceae*)
A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1974; A7 Ordu: 10 km from Gülyalı to Piraziz, 15 m, 06 Jul. 2003, S.Kabaktepe 2456.
Plantago major L. (*Plantaginaceae*)
A6 Ordu: 5 km from Çaybaşı to Tekkiraz, 290 m, 19 Sep. 2002, S.Kabaktepe 2123; A6 Ordu: Kumru, İslamdağ village, 220 m, 20 Sep. 2002, S.Kabaktepe 2274; A6 Ordu: Ünye, Çatalpınar village, 120 m, 01 Aug. 2003, S.Kabaktepe 2817.
- Phyllachorales
8. 24. *Colletotrichum circinans* (Berk.) Voglino
Allium cepa L. (*Liliaceae*)
A6 Ordu: 1. km from Çaybaşı to Tekkiraz, 490 m, 19 Sep. 2002, S.Kabaktepe 2127.

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Uredinales

9. 25. *Coleosporium euphrasiae* (Schumach.) G.Winter.
Euphrasia hirtella Jord. ex Reut. (*Scrophulariaceae*)
A6 Ordu: 10 km from Ünye to Çaybaşı, 30 m, 19 Sep. 2002, S.Kabaktepe 2095; A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002, S.Kabaktepe 2106; A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2150; A6 Ordu: 5 km from Akkuş to Ünye, 1280 m, S.Kabaktepe 2169; A6 Ordu: 1 km from Ulubey to Ordu, 500 m, 21 Sep. 2002, S.Kabaktepe 2306.
26. *C. telekiae* Thüm.
Telekia speciosa Baumg. (*Asteraceae*)
A6 Ordu: Gököy, Alanyurt village, 1250 m, 23. Jul. 2002, S.Kabaktepe 1483; A6 Ordu: Ordu, Uzunisa village, 80 m, 21 Sep. 2002, S.Kabaktepe 2292.

27. *C. tussilaginis* (Pers.) Kleb.

- Campanula glomerata* L. (*Campanulaceae*)
A6 Ordu: Perşembe, Ramazan village, 180 m, 17 Jun. 2002, S.Kabaktepe 1183a;

A6 Ordu: Perşembe, Mersin village, 60 m, 21 Jul. 2002, S.Kabaktepe 1360; A7 Ordu: Gülyalı, Hoşköy village, 350 m, 06 Jul. 2003, S.Kabaktepe 2463; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2505; A6 Ordu: 10 km from Mesudiye to Gököy, 1150 m, 06 Jul. 2004, S.Kabaktepe 3600; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3693.

Campanula lactiflora M.Bieb. (*Campanulaceae*)

A7 Ordu: Hoşköy village, 130 m, 17 Jun. 2002, S.Kabaktepe 1171; A6 Ordu: 2 km from Ulubey to Ordu, 430 m, 19 Jun. 2002, S.Kabaktepe 1215; A6 Ordu: Perşembe, Ramazan village, 210 m, 21 Jul. 2002, S.Kabaktepe 1380; A6 Ordu: 25 km from Gököy to Aybastı, 1150 m, 23 Jul. 2002, S.Kabaktepe 1485; A6 Ordu: 8 km from Kabataş to Çatalpınar, 550 m, 18 Sep. 2002, S.Kabaktepe 2026; A6 Ordu: 20 km from Akkuş to Kumru, 850 m, 20 Sep. 2002, S.Kabaktepe 2240; A6 Ordu: Ordu, Uzunisa village, 15 m, 05 Jul. 2004, S.Kabaktepe 3566; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3680.

Campanula sp. L. (*Campanulaceae*)

A7 Ordu: 4 km from Gülyalı to Ordu, 70 m, 20 Jul. 2002, S.Kabaktepe 1354; A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1398; A6 Ordu: Gürgentepe, Refahiye village, 750 m, 23 Jul. 2002, S.Kabaktepe 1438; A6 Ordu: Gököy, Alanyurt village, 1250 m, 23 Jul. 2002, S.Kabaktepe 1480; A6 Ordu: Aybastı, Perşembe plateau, 1650m, 24 Jul. 2002, S.Kabaktepe 1561; A6 Ordu: 25 km from Fatsa to Korgan, 1120 m, 25 Jul. 2002, S.Kabaktepe 1583; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 21. Sep. 2002, S.Kabaktepe 2323; A6 Ordu: Gököy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2343; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2844; A6 Ordu: 10 km from Gököy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2978; A6 Ordu: 7 km from Ordu to Ulubey, 80 m, 04 Jul. 2004, S.Kabaktepe 2996; A7 Ordu: Gülyalı Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3012.

Tussilago farfara L. (*Asteraceae*)

A7 Ordu: 4 km from Ordu to Gülyalı, 5 m, 16 Jun. 2002, S.Kabaktepe 1151; A6

Ordu: 3 km from Ünye to Terme, 30 m, 20 Jun. 2002, S.Kabaktepe 1248; A6 Ordu: 15 km from Ünye to Akkuş, 100 m, 20 Jun. 2002, S.Kabaktepe 1260; A6 Ordu: 7 km from Çatalpınar to Kabataş, 650 m, 21. Jun. 2002, S.Kabaktepe 1284; A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1390; A6 Ordu: Gürgentepe, Refahiye village, 750 m, 23 Jul. 2002, S.Kabaktepe 1441; A6 Ordu: Gölköy, Alanyurt village, 1250 m, 18 Sep. 2002, S.Kabaktepe 1479; A6 Ordu: 1 km from Çatalpınar to Kabataş, 220 m, 18 Sep. 2002, S.Kabaktepe 2054; A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2145; A6 Ordu: 1 km from Ulubey to Ordu, 500 m, 21 Sep. 2002, S.Kabaktepe 2303; A6 Ordu: Akkuş, Göcükülü village, 1200 m, 03 Jul. 2004, S.Kabaktepe 3461.

10. 28. *Gymnosporangium confusum* Plowr.

Crataegus microphylla K.Koch (*Rosaceae*)

A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 21. Sep. 2002, S.Kabaktepe 2336; A6 Ordu: 7 km from Akkuş to Niksar, 1290 m, 04 Jul. 2004, S.Kabaktepe 3494; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3676; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08. Jul. 2004, S.Kabaktepe 3691.

11. 29. *Melampsora euphorbiae* (C. Schub.) Castagne

Euphorbia sp. L. (*Euphorbiaceae*)

A7 Ordu: Gülyalı, Hoşköy village, 30 m, 17 Jun. 2002, S.Kabaktepe 1175; A6 Ordu: 5 km from Ulubey to Gürgentepe, 450 m, 19 Jun. 2002, S.Kabaktepe 1200; A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1393; A6 Ordu: 3 km from Gölköy to Mesudiye, 1050 m, 23 Jul. 2002, S.Kabaktepe 1453; A6 Ordu: 15 km from Fatsa to Çatalpınar, 40 m, 24 Jul. 2002, S.Kabaktepe 1523; A6 Ordu: Korgan, Günlük village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1591.

Euphorbia virgata Waldst. & Kit. (*Euphorbiaceae*)

A6 Ordu: Korgan Günlük village, 1609 m, 25 Jul. 2002, S.Kabaktepe 1609; A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1624; A6 Ordu: 15 km from Akkuş to Niksar, 1200 m, 04

Jul. 2004, S.Kabaktepe 3529; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3545.

30. *M. hypericorum* (DC.) J. Schröt.

Hypericum androsaemum L. (*Hypericaceae*)

A6 Ordu: 7 km from Gürgentepe to Ulubey, 180 m, 04 Sep. 2003, S.Kabaktepe 2997; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3548.

31. *M. lini* (Ehrenb.) Lév. var. *lini*

Linum nodiflorum L. (*Linaceae*)

A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3644.

32. *M. salicis-albae* Kleb.

Salix alba L. (*Salicaceae*)

A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3625; A6 Ordu: Mesudiye, Yeşilce village, 1220 m, 07 Jul. 2004, S.Kabaktepe 3659.

12. 33. *Phragmidium acuminatum* G. Cunn.

Rubus sp. L. (*Rosaceae*)

A6 Ordu: 1 km from Ünye to Terme, 15 m, 20 Jun. 2002, S.Kabaktepe 1251; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2354.

34. *Ph. fragariae* G. Winter

Fragaria vesca L. (*Rosaceae*)

A6 Ordu: Perşembe, Ramazan village, 210 m, 21 Jul. 2002, S.Kabaktepe 1382; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2470; A6 Ordu: Perşembe, Mersin village, 35 m, 07 Jul. 2004, S.Kabaktepe 2486; A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3653; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3707.

35. *Ph. mucronatum* (Pers.) Schldtl.

Rosa canina L. (*Rosaceae*)

A7 Ordu: 4 km from Gülyalı to Pirazis, 20 m, 20 Jul. 2002, S.Kabaktepe 1336; A6 Ordu: 30 km from Gölköy to Mesudiye, 1250 m, 23 Jul. 2002, S.Kabaktepe 1462; A6 Ordu: 15 km from Fatsa to Çatalpınar, 40 m, 24 Jul. 2002, S.Kabaktepe 1518; A6 Ordu: Fatsa, Bacanak village, 550 m, 25 Jul. 2002, S.Kabaktepe 1572; A6 Ordu: Korgan Günlük

village, 609 m, 25 Jul. 2002, S.Kabaktepe 1611; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2373; A7 Ordu: 10 km from Gülyalı to Pirazis, 15 m, 06 Jul. 2003, S.Kabaktepe 2455.

Rosa foetida J.Herm. (*Rosaceae*)

A6 Ordu: Perşembe, Ramazan village, 180 m, 17 Jun. 2002, S.Kabaktepe 1182; A7 Ordu: 2 km from Gülyalı to Pirazis, 60 m, 20 Jul. 2002, S.Kabaktepe 1334; A6 Ordu: Perşembe, Mersin village, 60 m, 21 Jul. 2002, S.Kabaktepe 1362; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3702.

Rosa pimpinellifolia L. (*Rosaceae*)

A7 Ordu: 2 km from Ordu to Gülyalı, 13 m, 16 Jun. 2002, S.Kabaktepe 1157a.

Rosa sp. L. (*Rosaceae*)

A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1409; A6 Ordu: 20 km from Akkuş to Kumru, 850 m, 20 Sep. 2002, S.Kabaktepe 2233.

36. *Ph. potentillae* (Pers.) P. Karst.

Potentilla recta L. (*Rosaceae*)

A6 Ordu: Çatalpınar, Ortaköy village, 320 m, 18 Sep. 2002, S.Kabaktepe 2044; A6 Ordu: Ordu, Uzunisa village, 80 m, 21 Sep. 2002, S.Kabaktepe 2295; A6 Ordu: Gölköy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2341; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3720.

37. *Ph. sanguisorbae* (DC.) J. Schröt.

Sanguisorba minor Scop. (*Rosaceae*)

A6 Ordu: 10 km from Çatalpınar to Kabataş, 400 m, 24 Jul. 2002, S.Kabaktepe 1535; A6 Ordu: Kabataş, Çukur village, 980 m, 24 Jul. 2002, S.Kabaktepe 1545; A6 Ordu: Aybastı, Çakalı village, 1255 m, 24 Jul. 2002, S.Kabaktepe 1552; A7 Ordu: 10 km from Gülyalı to Pirazis, 15 m, 06 Jul. 2003, S.Kabaktepe 2454; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3025; A6 Ordu: 7 km from Akkuş to Niksar, 1290 m, 04 Jul. 2004, S.Kabaktepe 3490; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3683.

38. *Ph. tuberculatum* Jul. Müll.

Rosa sp. L. (*Rosaceae*)

A6 Ordu: Gölköy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2348.

39. *Ph. violaceum* (Schultz) G. Winter

Rubus canescens DC. var. *canescens*
(*Rosaceae*)

A6 Ordu: 2 km from Ulubey to Ordu, 430 m, 19 Jun. 2002, S.Kabaktepe 1213; A6 Ordu: 12 km from Ünye to Akkuş, 100 m, 20 Jun. 2002, S.Kabaktepe 1253; A6 Ordu: Gürgentepe, Refahiye village, 600 m, 23 Jul. 2002, S.Kabaktepe 1433; A6 Ordu: 15 km from Gököy to Mesudiye, 920 m, 23 Jul. 2002, S.Kabaktepe 1454; A6 Ordu: Fatsa, Meşebükü village, 80 m, 24 Jul. 2002, S.Kabaktepe 1512; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2853.

Rubus hirtus Waldst. & Kit. (*Rosaceae*)

A6 Ordu: Perşembe, Ramazan village, 180 m, 17 Jun. 2002, S.Kabaktepe 1186; A6 Ordu: Ulubey, Akpınar village, 350 m, 19 Jun. 2002, S.Kabaktepe 1232; A6 Ordu: 8 km from Çatalpınar to Çamaş, 550 m, 21 Jun. 2002, S.Kabaktepe 1279; A6 Ordu: Perşembe, Mersin village, 120 m, 21 Jul. 2002, S.Kabaktepe 1384.

Rubus sp. L. (*Rosaceae*)

A7 Ordu: 2 km from Ordu to Gülyalı, 13 m, 16 Jun. 2002, S.Kabaktepe 1159; A7 Ordu: 2 km from Gülyalı to Pirazis, 15 m, 16 Jun. 2002, S.Kabaktepe 1162; A6 Ordu: Ulubey, Fındık village, 400 m, 19 Jun. 2002, S.Kabaktepe 1219; A6 Ordu: 6 km from Fatsa to Çatalpınar, 10 m, 21 Jun. 2002, S.Kabaktepe 1271; A6 Ordu: Perşembe, Mersin village, 60 m, 21 Jul. 2002, S.Kabaktepe 1363; A6 Ordu: 30 km from Gököy to Mesudiye, 1250 m, 23 Jul. 2002, S.Kabaktepe 1461; A6 Ordu: 15 km from Fatsa to Çatalpınar, 40 m, 24 Jul. 2002, S.Kabaktepe 1522; A6 Ordu: Korgan Günlük village, 1609 m, 25 Jul. 2002, S.Kabaktepe 1617; A6 Ordu: 8 km from Kabataş to Çatalpınar, 550 m, 18 Sep. 2002, S.Kabaktepe 2033; A6 Ordu: Çamaş, Eserbey village, 210 m, 18 Sep. 2002, S.Kabaktepe 2079; A6 Ordu: Ünye, Hanyanı village, 60 m, 31 Aug. 2003, S.Kabaktepe 2782.

13.40. *Puccinia achillaeae* Cooke

Achillea millefolium L. (*Asteraceae*)

A6 Ordu: 7 km from Ordu to Ulubey, 80 m, 04 Jul. 2004, S.Kabaktepe 3004.

41. *P. allii* (DC.) F. Rudolphi

Allium cepa L. (*Liliaceae*)

A6 Ordu: Ordu city graveyard, 5 m, 08 Jul. 2003, S.Kabaktepe 2521; A6 Ordu:

Ordu, Uzunisa village, 15 m, 05 Jul. 2004, S.Kabaktepe 3568.

42. *P. annularis* (F. Strauss) G. Winter

Teucrium polium L. (*Lamiaceae*)

A6 Ordu: 5 km from Ulubey to Gürgentepe, 450 m, 19 Jun. 2002, S.Kabaktepe 1207; A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3622.

Teucrium chamaedrys L. (*Lamiaceae*)

A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3598; A6 Ordu: Mesudiye, Yeşilce village, 1230 m, 07 Jul. 2004, S.Kabaktepe 3658; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3712.

43. *P. arenariae* (Schumach.) J. Schröt.

Silene vulgaris (Moench) Garcke var. *vulgaris* (*Caryophyllaceae*)

A6 Ordu: Korgan, Günlük village, 1609 m, 25 Jul. 2002, S.Kabaktepe 1621.

44. *P. calcitrapae* DC.

Arctium minus (Hill) Bernh. (*Asteraceae*)

A6 Ordu: Aybastı, Perşembe plateau, 1500 m, 17 Sep. 2002, S.Kabaktepe 1989; A6 Ordu: Çatalpınar, Elma village, 170 m, 18 Sep. 2002, S.Kabaktepe 2067; A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002, S.Kabaktepe 2112; A6 Ordu: 10 km from Gököy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2975.

Carduus pycnocephalus L. var. *pycnocephalus* (*Asteraceae*)

A6 Ordu: 10 km from Ordu to Perşembe, 150 m, 22 Jun. 2002, S.Kabaktepe 1287b. A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1411.

Centaurea iberica Trevir. ex Spreng. (*Asteraceae*)

A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2863.

Cirsium arvense (L.) Scop. (*Asteraceae*)

A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2135; A7 Ordu: Gülyalı Hoşköy village, 350 m, 06 Jul. 2003, S.Kabaktepe 2460; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2477; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe

2831; A6 Ordu: 10 km from Gököy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2973; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3537.

Echinops galaticus Freyn (*Asteraceae*)

A6 Ordu: 30 km from Gököy to Mesudiye, 1250 m, 23 Jul. 2002, S.Kabaktepe 1476; A6 Ordu: Mesudiye, Yeşilce village, 1230 m, 07 Jul. 2004, S.Kabaktepe 3666.

Echinops pungens Trautv. var. *pungens* (*Asteraceae*)

A6 Ordu: 10 km from Mesudiye to Koyulhisar, 1550 m, 21 Sep. 2002, S.Kabaktepe 2391.

45. *P. celakovskyana* Bubák

Cruciata taurica (Pall.) Ehrend. (*Rubiaceae*)

A6 Ordu: 15 km from Akkuş to Niksar, 1200 m, 04 Jul. 2004, S.Kabaktepe 3535; A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3620; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3690.

46. *P. cesatii* J. Schröt.

Bothriochloa ischaemum (L.) Keng (*Poaceae*)

A6 Ordu: Aybastı, Aybastı, 800 m, 18 Sep. 2002, S.Kabaktepe 2011.

47. *P. chaerophylli* Purton

Anthriscus nemorosa Spreng. (*Apiaceae*)

A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2398.

Chaerophyllum byzantinum Boiss. (*Apiaceae*)

A6 Ordu: Aybastı, Çakalı village, 1255 m, 24 Jul. 2002, S.Kabaktepe 1557; A6 Ordu: 25 km from Fatsa to Korgan, 25 km, 1120 m, 25 Jul. 2002, S.Kabaktepe 1585; A6 Ordu: 5 km from Çaybaşı, Tekkiraz village, 290 m, 19 Sep. 2002, S.Kabaktepe 2124.

48. *P. circaeae* Pers.

Circaea lutetiana L. (*Onagraceae*)

A7 Ordu: Gülyalı, 5 m, 20 Jul. 2002, S.Kabaktepe 1325; A6 Ordu: Perşembe, Ramazan village, 210 m, 21 Jul. 2002, S.Kabaktepe 1375; A6 Ordu: Perşembe, Mersin village, 120 m, 21 Jul. 2002, S.Kabaktepe 1383.

49. P. cnici G. Martin*Cirsium vulgare* (Savi) Ten. (*Asteraceae*)

A7 Ordu: 5 km from Gülyalı to Pirazis, 2 m, 17 Jun. 2002, S.Kabaktepe 1180; A7 Ordu: 5 km from Ulubey to Gürgentepe, 450 m, 19 Jun. 2002, S.Kabaktepe 1202; A6 Ordu: 1 km from Ünye to Terme, 15 m, 20 Jun. 2002, S.Kabaktepe 1250; A6 Ordu: 15 km from Ordu to Ulubey, 30 m, 23 July 2002, S.Kabaktepe 1420; A6 Ordu: 1 km from Çatalpınar to Kabataş, 220 m, 18 Sep. 2002, S.Kabaktepe 2049; A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3608.

50. P. coronillae Woron.*Coronilla orientalis* Mill. (*Fabaceae*)

A6 Ordu: 10 km from Gököy to Mesudiye, 990 m, 21 Sep. 2002, S.Kabaktepe 2378; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2402.

Coronilla varia L. (*Fabaceae*)

A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3698.

51. P. crepidicola Syd. & P. Syd.*Crepis foetida* L subsp. *foetida* (*Asteraceae*)

A7 Ordu: 1 km from Ordu to Gülyalı, 5 m, 20 Jul. 2002, S.Kabaktepe 1317; A7 Ordu: Gülyalı, 5 m, 20 Jul. 2002, S.Kabaktepe 1330; A7 Ordu: Aybastı, 800 m, 18 Sep. 2002, S.Kabaktepe 2000; A7 Ordu: Gülyalı, Hoşköy village, 350 m, 06 Jul. 2003, S.Kabaktepe 2459; A6 Ordu: Ordu, Uzunisa village, 15 m, 05 Jul. 2004, S.Kabaktepe 3557.

Crepis alpina L. (*Asteraceae*)

A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3646.

52. P. cyani Pass.*Centaurea iberica* Trevir. ex Spreng. (*Asteraceae*)

A6 Ordu: 15 km from Ordu to Ulubey, 30 m, 23 Jul. 2002, S.Kabaktepe 1421; A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1633; A6 Ordu: 10 km from Ünye to Çaybaşı, 30 m, 19 Sep. 2002, S.Kabaktepe 2088; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2429.

53. P. cyperi Arthur*Cyperus capitatus* Vand. (*Cyperaceae*)

A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1983.

54. P. falcariae (Pers.) Fucckel*Falcaria vulgaris* Bernh. (*Apiaceae*)

A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3609.

55. P. galii-cruciatae Duby*Galium verum* L. (*Rubiaceae*)

A6 Ordu: 5 km from Ulubey to Ordu, 400 m, 19 Jun. 2002, S.Kabaktepe 1220; A6 Ordu: 12 km from Ünye to Akkuş, 100 m, 20 Jun. 2002, S.Kabaktepe 1256; A6 Ordu: 10 km from Fatsa to Kumru, 40 m, 24 Jul. 2002, S.Kabaktepe 1566.

56. P. graminis Pers. subsp. *graminis**Avena barbata* Pott ex Link subsp. *barbata* (*Poaceae*)

A7 Ordu: 2 km from Ordu to Gülyalı, 13 m, 16 Jun. 2002, S.Kabaktepe 1157b; A6 Ordu: 15 km from Akkuş to Niksar 1190 m, 19 Sep. 2002, S.Kabaktepe 2187; A7 Ordu: 10 km from Gülyalı to Piraziz, 15 m, 06 Jul. 2003, S.Kabaktepe 2453.

Bromus lanceolatus Roth (*Poaceae*)

A6 Ordu: 7 km from Çatalpınar to Kabataş, 650 m, 19 Sep. 2002, S.Kabaktepe 1281.

Bromus sterilis L. (*Poaceae*)

A6 Ordu: 7 m from Ulubey to Ordu, 380 m, 19 Jun. 2002, S.Kabaktepe 1229; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2508; A6 Ordu: Mesudiye, Yeşilce village, 1250 m, 07 Jul. 2004, S.Kabaktepe 3667.

Dactylis glomerata L. (*Poaceae*)

A6 Ordu: 30 km from Başçıftlık to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1967; A6 Ordu: 8 km from Kabataş to Çatalpınar, 550 m, 18 Sep. 2002, S.Kabaktepe 2023; A6 Ordu: Akkuş, Düveli village, 1120 m, 20 Sep. 2002, S.Kabaktepe 2215; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2366; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3022.

Elymus hispidus (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis (*Poaceae*)

A6 Ordu: 30 km from Başçıftlık to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1966; A6 Ordu: Mesudiye, Mahmudiye

village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2362; A7 Ordu: 10 km from Gülyalı to Piraziz, 15 m, 06 Jul. 2003, S.Kabaktepe 2451.

Festuca valesiaca Schleich. ex Gaudin (*Poaceae*)

A7 Ordu: 4 km from Gülyalı to Piraziz, 20 m, 20 Jul. 2002, S.Kabaktepe 1337.

Hordeum sp. L. (*Poaceae*)

A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2360.

Hordeum bulbosum L. (*Poaceae*)

A6 Ordu: 30 km from Gököy to Mesudiye, 23 Jul. 2002, S.Kabaktepe 1470; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2365; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2472; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2504; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3701.

Hordeum marinum With. (*Poaceae*)

A7 Ordu: 1 km from Gülyalı to Ordu, 20 m, 20 Jul. 2002, S.Kabaktepe 1350.

Lolium sp. L. (*Poaceae*)

A6 Ordu: Akkuş, Düveli village, 1120 m, 20 Sep. 2002, S.Kabaktepe 2225.

Lolium multiflorum Lam. (*Poaceae*)

A6 Ordu: Korgan, Gulu village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1601; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2510.

Lolium rigidum Gaudin (*Poaceae*)

A6 Gürgentepe, Çatalarmut village, 700 m, 23 Jul. 2002, S.Kabaktepe 1445.

Polypogon viridis (Gouan) Breistr. (*Poaceae*)

A7 Ordu: 4 km from Gülyalı to Piraziz, 20 m, 20 Jul. 2002, S.Kabaktepe 1339; A6 Ordu: Perşembe Ramazan village, 210 m, 07 Jul. 2004, S.Kabaktepe 2496; A6 Ordu: Ünye, Killik village, 12 m, 31 Aug. 2003, S.Kabaktepe 2767; A6 Ordu: Ordu, Uzunisa village, 15 m, 05 Jul. 2004, S.Kabaktepe 3554.

Secale cereale L. var. *cereale* (*Poaceae*)

A6 Ordu: 30 km from Başçıftlık to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1959.

Setaria viridis (L.) P.Beauv (*Poaceae*)

A6 Ordu: 7 km from Ulubey to Gürgentepe, 820 m, 21 Sep. 2002, S.Kabaktepe 2319.

Triticum vulgare Vill (*Poaceae*)

A7 Ordu: 1 km from Gülyalı to Ordu, 20 m, 20 Jul. 2002, S.Kabaktepe 1349; A6 Ordu: Aybastı, Çakalı village, 1255 m, 24 Jul. 2002, S.Kabaktepe 1558; A6 Ordu: Akkuş, Göcükli village, 1200 m, 03 Jul. 2004, S.Kabaktepe 3466.

57. *P. helianthi* Schwein.

Helianthus annuus L. (*Asteraceae*)

A6 Ordu: Aybastı, Eceli village, 500 m, 18 Sep. 2002, S.Kabaktepe 2013; A6 Ordu: 3 km from Ünye to Akkuş, 7 m, 01 Aug. 2003, S.Kabaktepe 2794.

58. *P. hieracii* (Röhl.) H. Mart.var. *hieracii*

Hieracium sp. L. (*Asteraceae*)

A6 Ordu: 5 km from Gököy to Gürgentepe, 650 m, 18. Jun. 2002, S.Kabaktepe 1194; A7 Ordu: 2 km from Gülyalı to Pirazis, 60 m, 20 Jul. 2002, S.Kabaktepe 1333; A6 Ordu: 17 km from Gököy to Gürgentepe, 680 m, 23 Jul. 2002, S.Kabaktepe 1500; A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1629.

Taraxacum sp. F.H.Wigg. (*Asteraceae*)

A7 Ordu: 4 km from Ordu to Gülyalı, 5 m, 16 Jun. 2002, S.Kabaktepe 1150; A6 Ordu: 2 km from Ulubey to Ordu, 430 m, 19 Jun. 2002, S.Kabaktepe 1212; A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2189; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2500; A6 Ordu: Ünye, Çatalpınar village, 120 m, 01 Aug. 2003, S.Kabaktepe 2824; A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Aug. 2003, S.Kabaktepe 2889.

59. *P. hystereum* Röhl.

Tragopogon aureus Boiss. (*Asteraceae*)

A6 Ordu: 10 km from Mesudiye to Gököy, 1150 m, 05 Jul. 2003, S.Kabaktepe 2439.

60. *P. iridis* Wallr.

Iris sari Scott ex Baker (*Iridaceae*)

A7 Ordu: Gülyalı, Hoşköy village, 80 m, 17 Jul. 2002, S.Kabaktepe 1168.

61. *P. jasmini* DC.

Jasminum fruticans L. (*Oleaceae*)

A6 Ordu: 10 km from Ünye to Çaybaşı, 30 m, 19 Sep. 2002, S.Kabaktepe 2087; A6 Ordu: Ünye, Killik village, 12 m, 31 Aug. 2003, S.Kabaktepe 2771.

62. *P. lapsanae* Focke

Lapsana communis L. (*Asteraceae*)

A6 Ordu: 5 km from Gököy to Gürgentepe, 650 m, 18 Jun. 2002, S.Kabaktepe 1192; A6 Ordu: 6 km from Fatsa to Çatalpınar, 10 m, 21 Jun. 2002, S.Kabaktepe 1275; A6 Ordu: Perşembe, Ramazan village, 210 m, 21 Jul. 2002, S.Kabaktepe 1379; A6 Ordu: Perşembe, Mersin village, 120 m, 21 Jul. 2002, S.Kabaktepe 1386; A6 Ordu: 30 km from Gököy to Mesudiye, 1250 m, 23 Jul. 2002, S.Kabaktepe 1459; A6 Ordu: Çamaş, Kocaman village, 450 m, 24 Jul. 2002, S.Kabaktepe 1524; A6 Ordu: Aybastı, Çakalı village, 1255 m, 24 Jul. 2002, S.Kabaktepe 1556; A6 Ordu: 25 km from Fatsa to Korgan, 1120 m, 25 Jul. 2002, S.Kabaktepe 1588; A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1978; A6 Ordu: Akkuş, Düveli village, 1120 m, 20 Sep. 2002, S.Kabaktepe 2216; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2405; A6 Ordu: Mesudiye, Sarıca village, 1420 m, 08 Jul. 2004, S.Kabaktepe 3699.

63. *P. malvacearum* Bertero ex Mont.

Malva neglecta Wallr. (*Malvaceae*)

A6 Ordu: 5 km from Gököy to Mesudiye, 940 m, 18. Jun. 2002, S.Kabaktepe 1197b; A6 Ordu: 15 km from Gököy to Mesudiye, 1230 m, 23 Jul. 2002, S.Kabaktepe 1456; A6 Ordu: Aybastı, Perşembe plateau, 1500 m, 17 Sep. 2002, S.Kabaktepe 1992a; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2471; A6 Ordu: Ünye, Killik village, 12 m, 31 Aug. 2003, S.Kabaktepe 2773; A6 Ordu: Akkuş, Göcükli village, 1200 m, 03 Jul. 2004, S.Kabaktepe 3467.

Alcea hohenackeri Boiss. (*Malvaceae*)

A6 Ordu: Akkuş, Aşağıgüvercinlik village, 1290 m, 04 Jul. 2004, S.Kabaktepe 3511; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3542; A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3649.

64. *P. menthae* Pers.

Mentha pulegium L. (*Lamiaceae*)

A6 Ordu: 5 km from Ulubey to Gürgentepe, 450 m, 19 Jun. 2002, S.Kabaktepe 1205; A6 Ordu: 25 km from Gököy to Aybastı, 1150 m, 23 Jul. 2002, S.Kabaktepe 1487; A6 Ordu: 17 km from Gököy to Gürgentepe, 680 m, 23 Jul. 2002, S.Kabaktepe 1501; A6 Ordu: 23 km from Çatalpınar to Kabataş, 700 m, 24 Jul. 2002, S.Kabaktepe 1539; A6 Ordu: Korgan, Günlük village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1596; A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1981; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2428; A6 Ordu: Ünye, Çatalpınar village, 120 m, 01 Aug. 2003, S.Kabaktepe 2815; A6 Ordu: Akkuş, Göcükli village, 1200 m, 03 Jul. 2004, S.Kabaktepe 3470.

Mentha spicata L. (*Lamiaceae*)

A7 Ordu: 2 km from Gülyalı to Pirazis, 60 m, 20 Jul. 2002, S.Kabaktepe 1331; A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1410; A6 Ordu: Kabataş, Çukur village, 980 m, 24 Jul. 2002, S.Kabaktepe 1544; A6 Ordu: 20 km from Akkuş to Kumru, 850 m, 20 Sep. 2002, S.Kabaktepe 2239; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2476; A6 Ordu: Ünye, Killik village, 12 m, 31 Aug. 2003, S.Kabaktepe 2774; A6 Ordu: Ünye, Hanyanı village, 60 m, 31 Aug. 2003, S.Kabaktepe 2783; A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Aug. 2003, S.Kabaktepe 2879; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3538.

Origanum vulgare L. (*Lamiaceae*)

A6 Ordu: Uzunisa village, 15 m, 05 Jul. 2004, S.Kabaktepe 3560; A6 Ordu: 10 km from Mesudiye to Gököy, 1150 m, 06 Jul. 2004, S.Kabaktepe 3610.

65. *P. nigrescens* Kirchn.

Salvia verticillata L. (*Lamiaceae*)

A6 Ordu: Gürgentepe, Çatalarmut village, 700 m, 23 Jul. 2002, S.Kabaktepe 1443; A6 Ordu: 25 km from Gököy to Aybastı, 1150 m, 23 Jul. 2002, S.Kabaktepe 1486; A6 Ordu: 25 km from Fatsa to Korgan, 1120 m, 25 Jul. 2002, S.Kabaktepe 1580; A6 Ordu: Korgan, Güllü village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1605; A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002,

S.Kabaktepe 2104; A6 Ordu: Ünye, Dumantepe village, 1220 m, 19 Sep. 2002, S.Kabaktepe 2164; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 21. Sep. 2002, S.Kabaktepe 2333, ; A6 Ordu: Ordu, Uzunisa village, 20 m, 03 Aug. 2003, S.Kabaktepe 2933.

Salvia sp. L. (*Lamiaceae*)

A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 20. Sep. 2002, S.Kabaktepe 2324; A6 Ordu: Gököy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2347; A6 Ordu: Mesudiye, Mahmudiye village 1150 m, 21 Sep. 2002, S.Kabaktepe 2372.

66. P. phragmitis (Schumach.) Körn.

Phragmites australis (Cav.) Steud. (*Poaceae*)

A6 Ordu: 15 km from Fatsa to Çatalpınar, 40 m, 24 Jul. 2002, S.Kabaktepe 1520.

67. P. pimpinellae (F. Strauss) Link

Pimpinella rhodantha Boiss. (*Apiaceae*)

A6 Ordu: Ünye, Hanyanı village, 400 m, 19 Sep. 2002, S.Kabaktepe 2103; A6 Ordu: between Gököy and Mesudiye, around the Topcam dam, 1300 m, 06 Jul. 2004, S.Kabaktepe 3585.

68. P. polygani-amphibii Pers. var. *polygani-amphibii*

Polygonum convolvuli L. (*Polygonaceae*)

A6 Ordu: Perşembe, Yumrutaş village, 20 m, 21 Jul. 2002, S.Kabaktepe 1406a; A6 Ordu: Ünye, Hanyanı village, 400 m, 19 Sep. 2002, S.Kabaktepe 2098; A6 Ordu: between Ordu and Uzunisa village, 80 m, 21 Sep. 2002, S.Kabaktepe 2296; A6 Ordu: 7 km from Ulubey to Gürgentepe, 820 m, 21 Sep. 2002, S.Kabaktepe 2314; A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2854; A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3023; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3549.

69. P. punctata Link

Galium verum L. (*Rubiaceae*)

A6 Ordu: 6 km from Fatsa to Çatalpınar, 10 m, 21 Jun. 2002, S.Kabaktepe 1276; A6 Ordu: 25 km from Gököy to Aybastı, 1150 m, 23 Jul. 2002, S.Kabaktepe 1484; A6 Ordu: Kabataş, Çukur village, 980 m, 24 Jul.

2002, S.Kabaktepe 1547; A6 Ordu: Korgan, Güllü village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1603; A6 Ordu: Perşembe Ramazan village, 210 m, 07 Jul. 2004, S.Kabaktepe 2494; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2832; A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3636.

70. P. punctiformis (F. Strauss) Röhl.

Cirsium vulgare (Savi) Ten. (*Asteraceae*)

A6 Ordu: Ulubey, Doğulu village, 380 m, 19 Jun. 2002, S.Kabaktepe 1227; A6 Ordu: 30 km from Gököy to Mesudiye, 1250 m, 23 Jul. 2002, S.Kabaktepe 1464; A6 Ordu: Aybastı, Perşembe plateau, 1650m, 24 Jul. 2002, S.Kabaktepe 1560.

71. P. smilacis Schwein.

Smilax excelca L. (*Liliaceae*)

A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1406b.

72. P. sorghi Schwein.

Zea mays L. (*Poaceae*)

A6 Ordu: Aybastı, Eceli village, 500 m, 18 Sep. 2002, S.Kabaktepe 2014.

73. P. thesii (Desv.) Chaillet

Thesium arvense Horvdtovszky (*Santalaceae*)

A6 Ordu: Kabataş, Çukur village, 980 m, 24 Jul. 2002, S.Kabaktepe 1543; A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1628; A6 Ordu: 30 km from Başçiftlik to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1968.

***74. P. uralensis** Tranzschel

Senecio vernalis Waldst. & Kit (*Asteraceae*)

A7 Ordu: Gülyalı, Hoşköy village, 15 m, 17. Jun. 2002, S.Kabaktepe 1177; A6 Ordu: Ulubey, Doğulu village, riverside, 380 m, 19. Jun. 2002, S.Kabaktepe 1230a; A6 Ordu: Aybastı, 800 m, 18 Sep. 2002, S.Kabaktepe 1996; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2401; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul.2003, S.Kabaktepe 2430; A6 Ordu: Mesudiye, Yeşilce village, 1250 m, 07 Jul. 2004, S.Kabaktepe 3679; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3730.

75. P. violae (Schumach.) DC.

Viola kitaibeliana Roem. & Schult. (*Violaceae*)

A6 Ordu: Akkuş, Düveli village, 1120 m, 20 Sep. 2002, S.Kabaktepe 2214; A6 Ordu: 20 km from Akkuş to Kumru, 850 m, 20 Sep. 2002, S.Kabaktepe 2235; A6 Ordu: Gököy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2344; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3705.

76. P. xanthii Schwein.

Xanthium spinosum L. (*Asteraceae*)

A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2850.

14. 77. Pucciniastrum agrimoniae (DC.) Tranzschel

Agrimonia eupatoria L. (*Rosaceae*)

A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002, S.Kabaktepe 2109.

15. 78. Tranzschelia discolor (Fuckel) Tranzschel & M.A. Litv.

Prunus spinosa L. (*Rosaceae*)

A6 Ordu: Ünye, Hanyanı village, 400 m, 19 Sep. 2002, S.Kabaktepe 2100; A6 Ordu: Kumru, İslamdağ village, 220 m, 20 Sep. 2002, S.Kabaktepe 2272.

16. 79. Uredo daphnicola Dietel

Daphne oleoides Schreb. (*Thymelaeaceae*)

A6 Ordu: 25 km from Fatsa to Korgan, 1120 m, 25 Jul. 2002, S.Kabaktepe 1589.

17. 80. Uromyces appendiculatus (Pers.) Link

Phaseolus vulgaris L. (*Fabaceae*)

A6 Ordu: Aybastı, Eceli village, 500 m, 18 Sep. 2002, S.Kabaktepe 2017; A6 Ordu: Çatalpınar, Ortaköy village, 320 m, 18 Sep. 2002, S.Kabaktepe 2040; A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Sep. 2002, S.Kabaktepe 2114; A6 Ordu: 15 km from Akkuş to Nıksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2177; A6 Ordu: Akkuş, Düveli village, 1120 m, 20 Sep. 2002, S.Kabaktepe 2209; A6 Ordu: 10 km from Kumru to Fatsa, 220 m, 20 Sep. 2002, S.Kabaktepe 2251; A6 Ordu: Gököy, Yemişen plateau, 1300 m, 21 Sep. 2002, S.Kabaktepe 2350; A6 Ordu: 10 km from Gököy to Gürgentepe, 360 m, 04 Aug. 2003, S.Kabaktepe 2977.

- 81. U. baeumlerianus** Bubák
Melilotus neapolitana Ten. ex Guss. (*Fabaceae*)
A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2829.
Melilotus officinalis (L.) Lam. (*Fabaceae*)
A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2865.
- 82. U. behenis** (DC.) Unger
Silene vulgaris (Moench) Garcke var. *vulgaris* (*Caryophyllaceae*)
A6 Ordu: Korgan, Günlük village, 1609 m, 25 Jul. 2002, S.Kabaktepe 1612a; A6 Ordu: 30 km from Başçıftlık to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1965; A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1975; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 17 Sep. 2002 S.Kabaktepe 2327; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2399; A6 Ordu: Perşembe Ramazan village, 210 m, 07 Jul. 2004, S.Kabaktepe 2497.
- 83. U. ciceris-arietini** (Grognot) Jacz. & Boyd
Cicer arietinum L. (*Fabaceae*)
A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S. Kabaktepe 2183; A6 Ordu: Mesudiye, Yeşilce village, 1250 m, 07 Jul. 2004, S. Kabaktepe 3660.
- 84. U. dianthi** (Pers.) Niessl
Dianthus calocephalus Boiss. (*Caryophyllaceae*)
A6 Ordu: 30 km from Başçıftlık to Aybastı, 1310 m, 17 Sep. 2002, S.Kabaktepe 1958.
- 85. U. fischeri-eduardi** Magnus
Vicia freyniana Bornm. (*Fabaceae*)
A6 Ordu: Perşembe Ramazan village, 180 m, 17 Jun. 2002, S.Kabaktepe 1184; A6 Ordu: 10 km from Ordu to Perşembe, 150 m, 22 Jun. 2002, S.Kabaktepe 1288; A6 Ordu: 23 km from Çatalpınar to Kabataş, 700 m, 24 Jul. 2002, S.Kabaktepe 1536b.
Vicia villosa Roth (*Fabaceae*)
A7 Ordu: 1 km from Gülyalı to Ordu, 20 m, 20 Jul. 2002, S.Kabaktepe 1346; A6 Ordu: Korgan, Günlük village, 1250 m, 25 Jul. 2002, S.Kabaktepe 1594; A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1627a; A6 Ordu: Perşembe plateau, 1650 m, 17 Sep. 2002, S.Kabaktepe 1985; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 17 Sep. 2002, S.Kabaktepe 2330; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2418; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2835.
- 86. U. geranii** Speg.
Geranium cinereum Cav. (*Geraniaceae*)
A6 Ordu: 5 km from Gököy to Mesudiye, 940 m, 18. Jun. 2002, S.Kabaktepe 1198; A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Aug. 2003, S.Kabaktepe 2878; A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3727.
- 87. U. gypsophilae** Cooke
Gypsophila hispida Boiss. (*Caryophyllaceae*)
A6 Ordu: 30 km from Fatsa to Kumru, 580 m, 25 Jul. 2002, S.Kabaktepe 1632.
- 88. U. pisi-sativi** (Pers.) Liro
Astragalus ponticus Pall. (*Fabaceae*)
A6 Ordu: 10 km from Mesudiye to Koyulhisar, 1550 m, 21 Sep. 2002, S.Kabaktepe 2392; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2407; A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3614; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3673.
Astragalus sp. L. (*Fabaceae*)
A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3681.
Genista tinctoria L. (*Fabaceae*)
A6 Ordu: 25 km from Fatsa to Korgan, arasi, 1120 m, 25 Jul. 2002, S.Kabaktepe 1578; A6 Ordu: 27 km from Ünye to Akkuş, 820 m, 18 Sep. 2002, S.Kabaktepe 2138a.
Lathyrus annuus L. (*Fabaceae*)
A6 Ordu: Aybastı, Perşembe plateau, 1500 m, 17 Sep. 2002, S.Kabaktepe 1990; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2425.
Medicago lupulina L. (*Fabaceae*)
A7 Ordu: Gülyalı, Hoşköy village, 130 m, 17. Jun. 2002, S.Kabaktepe 1169; A6 Ordu: 10 km from Ünye to Fatsa, 5 m, 20 Jun. 2002, S.Kabaktepe 1268a; A6 Ordu: 7 km from Çatalpınar to Kabataş, 650 m, 20 Jun. 2002 S.Kabaktepe 1282; A6 Ordu: 10 km from Ünye to Çaybaşı, 30 m, 19 Sep. 2002, S.Kabaktepe 2094; A6 Ordu: Mesudiye, Yeşilcevillage, 07 Jul. 2004, S.Kabaktepe 3654.
Medicago varia Martyn (*Fabaceae*)
A7 Ordu: 1 km from Gülyalı to Ordu, 20 m, 20 Jul. 2002, S.Kabaktepe 1347; A6 Ordu: Kabataş, Çukur village, 980 m, 24 Jul. 2002, S.Kabaktepe 1546; A6 Ordu: 15 km from Akkuş to Niksar, 1190 m, 19 Sep. 2002, S.Kabaktepe 2179; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2417.
- Onobrychis armena* Boiss (*Fabaceae*)
A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3623.
- 89. U. polygona-avicularis** (Pers.) P. Karst.
Polygonum bellardii All. (*Polygonaceae*)
A6 Ordu: 6 km from Fatsa to Çatalpınar, 10 m, 21 Jun. 2002, S.Kabaktepe 1272; A6 Ordu Aybastı, Eceli village, 500 m, 18 Sep. 2002, S.Kabaktepe 2012; A6 Ordu: Çamaş, Eserbey village, 210 m, 18 Sep. 2002, S.Kabaktepe 2075; A6 Ordu: 25 km from Kumru to Akkuş, 920 m, 20 Sep. 2002, S.Kabaktepe 2264; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 20 Sep. 2002, S.Kabaktepe 2328; A6 Ordu: Ünye, Çatalpınar village, 120 m, 01 Aug. 2003, S.Kabaktepe 2825;
- 90. U. rumicis** (Schumach.) G. Winter
Rumex angustifolius Campd. (*Polygonaceae*)
A7 Ordu: Gülyalı, Hoşköy village, 80 m, 17 Jun. 2002, S.Kabaktepe 1165; A6 Ordu: 8 km from Ünye to Terme, 8m, 20 Jun. 2002, S.Kabaktepe 1238; A6 Ordu: 11 km from Kabataş to Aybastı, 600 m, 20 Jun. 2002, S.Kabaktepe 1286; A6 Ordu: Perşembe, Yumrutaş village, 140 m, 21 Jul. 2002, S.Kabaktepe 1395; A7 Ordu: Gülyalı, Ustalı village, 420 m, 06 Jul. 2004, S.Kabaktepe 2475; A6 Ordu: Ünye, Hanyanı village, 60 m, 31 Aug. 2003, S.Kabaktepe 2781.
Rumex alpinus L. (*Polygonaceae*)
A6 Ordu: 10 km from Ünye to Fatsa, 5 m, 20 Jun. 2002, S.Kabaktepe 1265; A6

Ordu: Aybastı, Eceli village, 500 m, 18 Sep. 2002, S.Kabaktepe 2020; A6 Ordu: Ünye, Tekkiraz village, 80 m, 01 Aug. 2003, S.Kabaktepe 2839; A6 Ordu: Akkuş, Göcükli village, 1200 m, 03 Jul. 2004, S.Kabaktepe 3469; A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3638.

Rumex patientia L. (*Polygonaceae*)

A6 Ordu: 1 km from Ordu to Ulubey, 500 m, 21 Sep. 2002, S.Kabaktepe 2301; A7 Ordu: Gülyalı, Hoşköy village, 350 m, 06 Jul. 2003, S.Kabaktepe 2458; A6 Ordu: Eyüp village, 25 m, 05 Jul. 2004, S.Kabaktepe 3544; A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3634.

Rumex tuberosus L. (*Polygonaceae*)

A7 Ordu: 2 km from Ordu to Gülyalı, 13 m, 16 Jun. 2002, S.Kabaktepe 1156; A6 Ordu: Uzunisa village, 15 m, 23 Jul. 2002, S.Kabaktepe 1414; A6 Ordu: Ünye, Hanyanı village, 400 m, 19 Sep. 2002, S.Kabaktepe 2097; A6 Ordu: Akkuş, Aşağıüvercinlik village, 1290 m, 04 Jul. 2004, S.Kabaktepe 3486.

91. U. sophorae-flavescentis Kusano

Sophora jaubertii Spach ex Jaub.et Spach (*Fabaceae*)

A6 Ordu: 23 km from Çatalpınar to Kabataş, 700 m, 24 Jul. 2002, S.Kabaktepe 1537; A6 Ordu: Aybastı, Çakalı village, 1255 m, 24 Jul. 2002, S.Kabaktepe 1554.

92. U. striatus J. Schröt.

Argyrolobium biebersteinii P.W.Ball (*Fabaceae*)

A7 Ordu: Gülyalı, Hoşköy village, 80 m, 05 Sep. 2003, S.Kabaktepe 3009.

93. U. trifolii-repentis (Castagne) Liro

Medicago falcata L. (*Fabaceae*)

A6 Ordu: Fatsa, Meşebükü village 10 m, 02 Aug. 2003, S.Kabaktepe 2882.

Medicago lupulina L. (*Fabaceae*)

A7 Ordu: 2 km from Ordu to Gülyalı, 13 m, 16 Jun. 2002, S.Kabaktepe 1158a; A6 Ordu: Perşembe Ramazan village, 180 m, 17

Jun. 2002, S.Kabaktepe 1183b; A6 Ordu: Mesudiye, 1200 m, 04 Jul. 2003, S.Kabaktepe 2408; A6 Ordu: 3 km from Ünye to Akkuş, 7 m, 01 Aug. 2003, S.Kabaktepe 2789.

Medicago rigidula (L.) All. var. *rigidula* (*Fabaceae*)

A6 Ordu: 8 km from Ünye to Terme, 8 m, 20 Jun. 2002, S.Kabaktepe 1243; A6 Ordu: Perşembe, Yumrutaş village, 07 Jul. 2004, S.Kabaktepe 2509.

Trifolium pratense L. var. *pratense* (*Fabaceae*)

A6 Ordu: Ulubey, Fındık village, 400 m, 19 Jun. 2002, S.Kabaktepe 1223; A6 Ordu: 10 km from Ünye to Fatsa, 5 m, 20 Jun. 2002, S.Kabaktepe 1268b; A6 Ordu: 10 km from Ordu to Perşembe, 150 m, 22 Jun. 2002, S.Kabaktepe 1290; A6 Ordu: Mesudiye, Sarıca village, 1320 m, 05 Jul. 2003, S.Kabaktepe 2423; A6 Ordu: Perşembe, Ramazan village, 10 m, 07 Jul. 2004, S.Kabaktepe 2498; A6 Ordu: Ünye, Gobi village, 31 Aug. 2003, S.Kabaktepe 2776; A6 Ordu: 7 km from Akkuş to Niksar, 1290 m, 04 Jul. 2004, S.Kabaktepe 3485; A6 Ordu: Mesudiye, Yeşilce village, 1260 m, 07 Jul. 2004, S.Kabaktepe 3665.

94. U. trigonellae Pass.

Trigonella fischeriana Ser. (*Fabaceae*)

A6 Ordu: 10 km from Gököy to Mesudiye, 1150 m, 06 Jul. 2004, S.Kabaktepe 3596.

Ustilaginales

***18. 95. Anthracoidea pratensis** (Syd.) Boidol & Poelt

Carex divisa Huds. (*Cyperaceae*)

A6 Ordu: Mesudiye, Çambaşı plateau, 1420 m, 07 Jul. 2004, S.Kabaktepe 3639; A6 Ordu: Mesudiye, Yeşilce village, 07 Jul. 2004, S.Kabaktepe 3668.

***96. A. pseudirregularis** U. Braun

Carex sp. L. (*Cyperaceae*)

A6 Ordu: 12 km from Mesudiye to Koyulhisar, 1520 m, 08 Jul. 2004, S.Kabaktepe 3709.

19. 97. Ustilago maydis (DC.) Corda

Zea mays L. (*Poaceae*)

A6 Ordu: Perşembe, Yumrutaş village, 20 m, 27 Jul. 2002, S.Kabaktepe 1412; A6 Ordu: 17 km from Gököy to Gürgentepe, 680 m, 23 Jul. 2002, S.Kabaktepe 1499; A6 Ordu: Çatalpınar, Ortaköy village, 320 m, 18 Aug. 2002, S.Kabaktepe 2042; A6 Ordu: 15 km from Çaybaşı to İkizce, 500 m, 19 Aug. 2002, S.Kabaktepe 2110; A6 Ordu: Gürgentepe, Eğribey village, 1100 m, 21. Sep. 2002 S.Kabaktepe 2332; A6 Ordu: Mesudiye, Mahmudiye village, 1150 m, 21 Sep. 2002, S.Kabaktepe 2355.

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***20. 98. Ascochyta caulicola** Laubert

Galium verum L. (*Rubiaceae*)

A6 Ordu: 10 km from Fatsa to Kumru, 40 m, 24 Jul. 2002, S.Kabaktepe 1566.

***21. 99. Phoma leguminum** Westend.

Lathyrus roseus Stev. (*Fabaceae*)

A6 Ordu: 5 km from Fatsa to Çatalpınar, 6 m, 02 Aug. 2003, S.Kabaktepe 2859.

22.100. Septoria Sacc. sp.

Celtis sp. L. (*Ulmaceae*)

A6 Ordu: 7 km from Akkuş to Niksar, 1290 m, 04 Jul. 2004, S.Kabaktepe 3482.

101. S. digitalis Pass.

Digitalis lamarckii Ivanina (*Scrophulariaceae*)

A6 Ordu: 10 km from Gököy to Mesudiye, 1230 m, 23 Jul. 2002, S.Kabaktepe 1494.

23.102. Septogloeum mori (Lév.) Briosi & Cavara

Morus alba L. (*Moraceae*)

A6 Ordu: Fatsa, Meşebükü village, 10 m, 02 Aug. 2003, S.Kabaktepe 2880; A6 Ordu: Ordu, Uzunisa village, garden side, 15 m, 05 Jul. 2004, S.Kabaktepe 3555.