

1-1-1998

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Recommended Citation

TÜRK, A. Özdemir and GÜNER, Hüseyin (1998) "Lichens of the Thrace Region of Turkey," *Turkish Journal of Botany*. Vol. 22: No. 6, Article 5. Available at: <https://journals.tubitak.gov.tr/botany/vol22/iss6/5>

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Lichens of the Thrace Region of Turkey

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Received: 03.03.1997

Accepted: 27.02.1988

Abstract: This paper gives the distribution of lichens in the Thrace region determined in this study and in nine previous studies as well. The genus *Placidopsis* (*Verrucariaceae*) is recorded for the first time in Turkey and thirty-three of the species are recorded for the first time for the region. With the completion of this study, the number of known lichen species in the region reaches 201.

Key Words: Lichen, flora, Turkey, Thrace

Trakya Bölgesi Likenleri

Özet: Trakya Bölgesi'nden günümüze kadar yapılmış olan dokuz çalışma ile birlikte bu çalışmada tayin edilen türlerin yayılış alanları verilmektedir. *Placidopsis* (*Verrucariaceae*) cinsi Türkiye'den ilk kez kaydedilmektedir. Liken türlerinden 33'ü Trakya Bölgesi'nden ilk kez kaydedilmektedir. Bu çalışmanın tamalanması ile bölgedeki tür sayısı 201'e ulaşmıştır.

Anahtar Sözcükler: Liken, flora, Türkiye, Trakya

Introduction

So far, 9 papers have been published about the lichens of Thrace region. Rigler (1) and Yaltırık (2) have produced records from Belgrat Forest. Steiner's paper covers the lichens of İstanbul in addition to some records from Belgrat Forest as well (3). Szatala (4) and Verseggy (5) have also reported some lichens from the Thrace region. Karamanoğlu also mentioned a few lichens of the Thrace region (6). Güner and Özdemir (7, 8) have published papers on the distribution of lichen species in the Gelibolu peninsula and Yıldız Mountains. In addition, the same authors have published a paper on the ecological features of the lichens of the Thrace region (9).

Material and Method

Lichen samples were collected from the study area between 1992 and 1994 (Figure 1). They were identified with reference to flora books (10-12). The nomenclature reflects a more modern concept of genus, especially in the Parmeliaceae (13). The author names are abbreviated

according to Brummit & Powell (14). Reference specimens were stored in the herbarium of the Faculty of Sciences, Anadolu University, Eskişehir (ANES).

The names of new species records are initiated by "+" in the list, and the new genus record by an asterisk (*). The provinces of localities are indicated by their province numbers in bold:

17: Çanakkale

22: Edirne

34: İstanbul

39: Kırklareli

59: Tekirdağ

In the statements of the records based on previous literature in the list, the province number is followed by author(s) name, and in the parenthesis, year of publication and page number in that paper. If a previous record is now a synonym, it is given after the page number in italics.

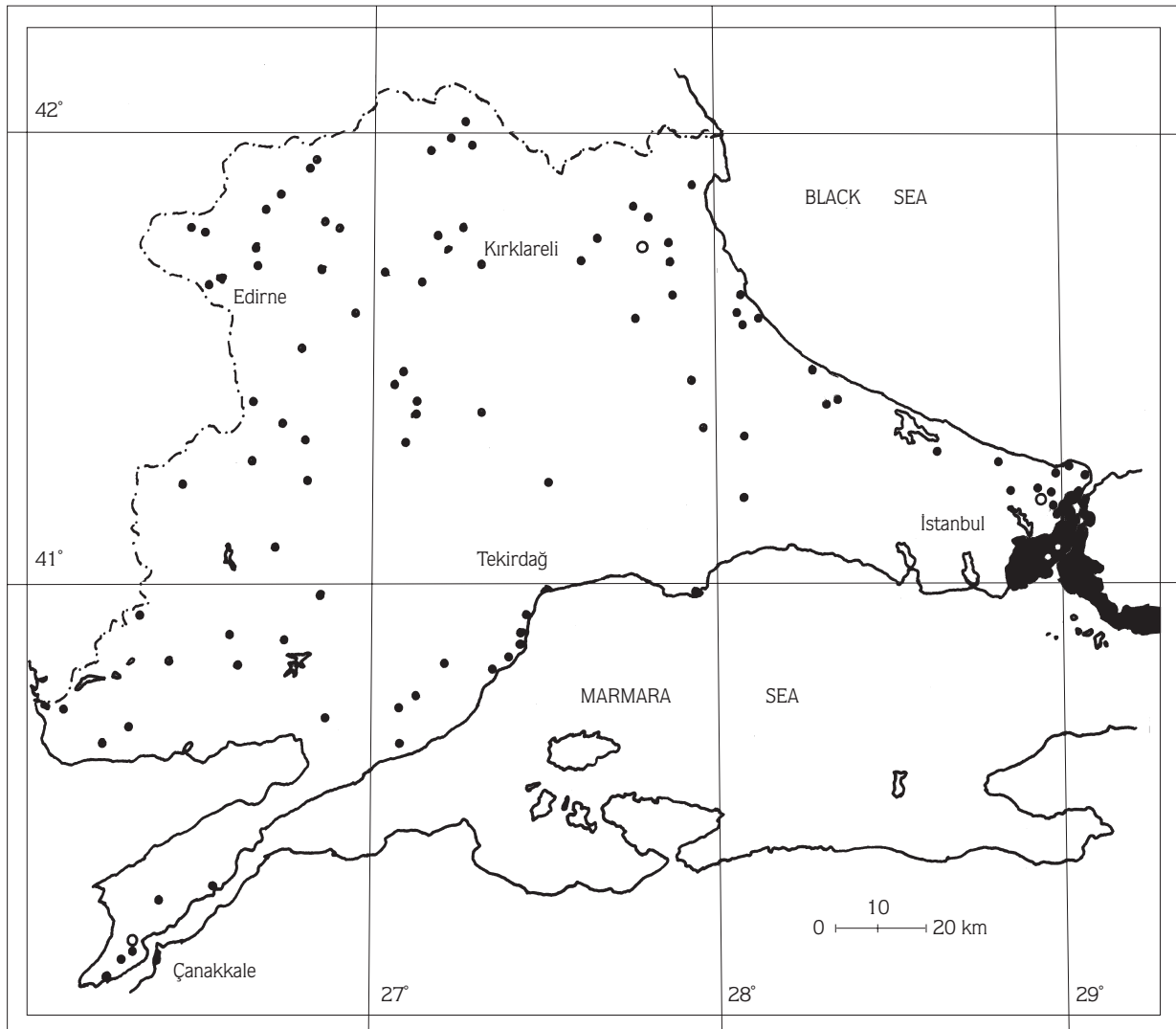


Figure 1. Map of the study area.
 ● localities in the present work, ○ localities in the previous works

Results

Acrocordia gemmata Körb.: **34**: Steiner (1899: 238).

Amandinea punctata (Hoffm.) Coppins & Scheid.: **22**: Edirne, Hıdırağa village, 20.7.1993, 70 m, 41°44'N 26°38'E; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1528; **17**: Gelibolu, Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E, ANES 1514; **34**: Sarıyer, Rumeli Kavağı,

9.7.1994, 20 m, 41°13'N 29°05'E. Corticolous.

Anaptychia caspica Meresch. ex A. Massal.: **39**: Özdemir Türk & Güner (1996:458).

Anaptychia ciliaris Körb. ex A. Massal.: **39**: Kırklareli, north of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; Özdemir Türk & Güner (1996: 458); **59**: Hayrabolu, Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N

26°43'E; Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E. Corticolous. **34**: Rigler (1852: 110 as *Parmelia ciliaris*); Steiner (1899: 224 as *Physcia ciliaris*)

Arthonia radiata (Pers.) Ach.: **34**: Steiner (1899: 237 as *Arthonia astroidea*)

Arthonia turcica J. Steiner: **34**: Steiner (1899: 237).

Arthonia varians (Davies) Nyl.: 22: Özdemir Türk & Güner (1996: 458)

Aspicilia caesiocinerea (Malbr.) Arnold: 22: Enez, Büyükevren-Abdurrahim, 27.7.1993, 80 m, 40°38'N 26°14'E; Özdemir Türk & Güner (1996: 458); 59: Şarköy, northwest of Uçmakedere village, 31.10.1992, 210 m, 40°47'N 27°21'E; 34: Sarıyer, Rumeli Kavağı, 9.7.1994, 20 m, 41°13'N 29°05'E. Saxicolous.

Aspicilia calcarea (L.) Mudd: 39: Özdemir Türk & Güner (1996: 458)

Aspicilia cinerea (L.) Körb.: Rigler (1852: 110 as *Parmelia cinerea*)

Aspicilia controta (Hoffm.) Kremp.: 17: Kadıköy, Bayramiç village, 28.7.1993, 150 m, 41°47'N 26°46'E; 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E. Saxicolous. 39: Özdemir Türk & Güner (1996: 458)

Aspicilia hoffmanni (Ach.) Flag.: 34: Steiner (1899: 228 as *Aspicilia calcarea* var. *hoffmanni*)

+**Aspicilia intermutans** (Nyl.) Arnold 17: Kadıköy, Bayramiç village, 28.7.1993, 150 m, 41°47'N 26°46'E, ANES 435. Saxicolous.

Bacidia rosella (Pers.) De Not: 34: Steiner (1899: 232); 59: Özdemir Türk & Güner (1996: 458)

Biatora vernalis (L.) Fr.: 34: Steiner (1899: 231 as *Lecidea vernalis*)

Bryoria implexa (Hoffm.) Brodo & D. Hawksworth: 34: Rigler (1852: 110 as *Evernia implexa*)

Buellia punctiformis Arnold: 34: Steiner (1899: 232).

Caloplaca aurantia (Pers.) J. Steiner: 59: Özdemir Türk & Güner (1996: 458)

Caloplaca boulyi (Zahlbr.) M. Steiner & Poelt: 22: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; Sarayakpınar-Yolüstü, 20.7.1993, 60 m, 41°48'N 26°27'E; Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E; Uzunköprü, Bayramlı village, 22.7.1993, 70 m, 41°18'N 26°48'E; ANES 1527; Uzunköprü-Meriç, 5. km,

22.7.1993, 50 m, 41°16'N 26°38'E; İpsala-Sınır, 27.7.1993, 50 m, 40°57'N 26°19'E; Özdemir Türk & Güner (1996: 459); 39: Babaeski, Yolageldi-Haznedar, 6.7.1993, 120 m, 41°32'N 26°56'E; Babaeski -Alpullu, 9. km, 26.7.1993, 65 m, 41°24'N 27°08'E; Özdemir Türk & Güner (1996: 459); 59: Malkara, south of İbrice village, 26.7.1993, 150 m, 40°57'N 26°53'E. Corticolous.

+**Caloplaca cerina** (Ehrh. ex Hedw.) The. Fr.: 22: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; 17: Eceabat, Kilitbahir-Alçitepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E; Eceabat, Abide, 28.8.1993, 150 m, 40°03'N 26°02'E. Corticolous.

Caloplaca cerina (Ehrh. ex Hedw.) Th. Fr.: 22: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; 17: Eceabat, Kilitbahir-Alçitepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E; Eceabat, Abide, 28.8.1993, 150 m, 40°03'N 26°02'E. Corticolous.

Caloplaca cerinella (Nyl.) Flagey: 22: Edirne, Sarayakpınar-Yolüstü, 20.7.1993, 60 m, 41°48'N 26°27'E; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E, ANES 1013; 39: Özdemir Türk & Güner (1996: 459). Corticolous.

Caloplaca cirrochroa (Ach.) Th. Fr.: 17: Eceabat, Kumköy, 28.8.1993, 150 m, 40°17'N 26°23'E; on tiles 34: Steiner (1899: 225 as *Amphilomma cirrochroa*); 22: Özdemir Türk & Güner (1996: 459)

+**Caloplaca citrina** (Hoffm.) Th. Fr.: 22: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E; Enez Castle, 27.7.1993, 10 m, 40°43'N 26°04'E, ANES 1438. On wall.

Caloplaca crenularia (With.) J.R.Laundon: 34: Sarıyer, Rumeli Kavağı, 9.7.1994, 20 m, 41°13'N 29°05'E; saxicolous. 39: Özdemir Türk & Güner (1996: 459).

+**Caloplaca decipiens** (Arnold) Jatta: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E, on tile.

Caloplaca ferruginea (Huds.) Th. Fr.: 34: Steiner (1899: 225)

Caloplaca flavorubescens (Huds.) J.R.Laundon: 17: Eceabat, Kilitbahir-Alçitepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E, corticolous.

Caloplaca flavovirescens (Wulfen) Dalla Torre & Sarnt.: 17: Eceabat, Abide, 28.8.1993, 150 m., 40°03'N 26°02'E, saxicolous.

Caloplaca flavescens (Hudson) J.R.Laundon: 34: Steiner (1899: 225 as *Amphilomma heppiana*)

Caloplaca holocarpa (Ehre. ex Ach.) Wade: 22: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E, ANES 1524; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1213; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E; Özdemir Türk & Güner (1996: 459); 17: Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E; Kilitbahir-Alçitepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E; Eceabat, Abide, 28.8.1993, 150 m., 40°03'N 26°02'E; 39: Babaeski, Yolageldi-Haznedar, 6.7.1993, 120 m, 41°32'N 26°56'E; Lüleburgaz, Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; Babeski, Alpullu sugar factory, 27.7.1993, 65 m, 41°22'N 27°07'E; 59: Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; Barbaros-Tekirdağ, 1.km, 31.10.1992, 50 m, 40°54'N 27°26'E. Corticolous, first and third from bottom saxicolous.

Caloplaca lactea (A. Massal.) Zahlbr.: 17: Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E; saxicolous. 39: Özdemir Türk & Güner (1996: 459)

Caloplaca ochro nigra J. Steiner: 34: Steiner (1899: 226)

+**Caloplaca saxicola** (Hoffm.) Nordin: 22: Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES 1533; 39: Babaeski, railway station, 6.7.1993, 120 m, 41°26'N 27°04'E. On wall.

Caloplaca teicholyta (Ach.) J. Steiner: 22: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Özdemir Türk & Güner (1996: 459); 17: Eceabat, Kumköy,

28.8.1993, 150 m, 40°17'N 26°23'E. On tile.

Caloplaca variabilis (Pers.) Müll. Arg.:
39: Özdemir Türk & Güner (1996: 459)

Candelariella aurella (Hoffm.) Zahlbr.:
17: Eceabat, Kilitbahir-Alçıtepe, 18.km,
28.8.1993, 60 m, 40°13'N 26°23'E, on tile;
39: Babaeski, railway station, 6.7.1993, 120
m, 41°26'N 27°04'E on wall; Babaeski,
Alpullu sugar factory, 27.7.1993, 65 m,
41°22'N 27°07'E, on wall; 59: Tekirdağ,
Kumbağ, recreation area, 31.10.1992, 100
m, 40°52'N 27°26'E; saxicolous; 22: Özdemir
Türk & Güner (1996: 459)

+**Candelariella reflexa** (Nyl.) Lettau: 22:
Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N
26°31'E, Edirne, Sarayakpınar village,
20.7.1993, 70 m, 41°46'N 26°27'E, Hıdırağa
village, 20.7.1993, 70 m, 41°44'N 26°38'E.
Corticolous.

Candelariella vitellina (Hoffm.) Müll.
Arg.: 17: Kadıköy, Bayramiç village,
28.7.1993, 150 m, 41°47'N 26°46'E; 59:
Şarköy, nothwest of Uçmakdere village,
31.10.1992, 210 m, 40°47'N 27°21'E; ANES
1439, 34: Çatalca, Karacaköy-Sinekli, 6. km,
18.7.1993, 70 m, 41°24'N 28°20'E, ANES
1015; Sarıyer, Rumeli Kavağı, 9.7.1994, 20
m, 41°13'N 29°05'E; saxicolous; 22, 39:
Özdemir Türk & Güner (1996: 459)

+**Candelariella xanthostigma** (Ach.)
Lettau: 22: Keşan, Keşan-Beğendik, 5. km,
27.7.1993, 80 m, 40°53'N 26°30'E; İpsala,
Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50
m, 40°49'N 26°24'E, 17: Eceabat, Kumköy,
28.8.1993, 150 m, 40°17'N 26°23'E; 39:
Kırklareli, north of Kavaklı, 26.7.1993, 180
m, 41°39'N 27°09'E; 59: Hayrabolu,
Davuteli-Harmanlı 2.km, 26.7.1993, 130 m,
41°39'N 26°43'E; Malkara, south of İbrice
village, 26.7.1993, 150 m, 40°57'N 26°53'E;
34: Sarıyer, Bahçeköy, 9.7.1994, 120 m,
41°11'N 28°58'E. Corticolous except 17 (on
tile).

Catapyrenium lachneum (Ach.) R.
Sant.: 39: Özdemir Türk & Güner (1996:
460).

Catillaria chalybeia (Borrer) A. Massal.:
34: Steiner (1899: 232).

+**Catillaria lenticularis** (Ach.) Thy. Fr.:
17: Gelibolu, Gelibolu-Eceabat, 28.8.1993,
30 m, 40°19'N 26°30'E, saxicolous.

Catinaria atropurpurea (Schaer.) Vezda
& Poelt: 34: Steiner (1899: 232 as *Catillaria*
atropurpurea).

Cetraria aculeata (Schreb.) Fr.: 22:
Edirne, north of Paşayenice village,
22.7.1993, 50 m, 41°12'N 26°31'E; Meriç,
Mandadere surroundings, 22.7.1993, 70 m,
41°11'N 26°26'E, ANES 1218; Özdemir Türk
& Güner (1996:460); 39: Lüleburgaz,
Kumrular-Hamitabat, 5.km, 6.7.1994, 150
m, 41°30'N 27°15'E, ANES 1545; Babaeski,
south of Kumrular village, 6.7.1994, 160 m,
41°29'N 27°13'E; terricolous. 34: Rigler
(1852: 110).

Cetraria islandica (L.) Ach.: 234: Rigler
(1852: 110).

+**Chrysothrix candelaris** (L.)
J.R.Laundon: 34: Sarıyer, Belgrat Ormanı,
Bentler, 30.10.1992, 150 m, 41°10'N
28°57'E, corticolous.

Cladonia arbuscula (Wallr.) Flot. emend.
Ruoss: 34: Steiner (1899: 230 as *Cladonia*
sylvatica Hoffm.).

Cladonia cervicornis (Ach.) Flotow: 22:
Meriç, Mandadere place, 22.7.1993, 70 m,
41°11'N 26°26'E, ANES 1210; Özdemir Türk
& Güner (1996: 459); 39: Lüleburgaz,
Kumrular-Hamitabat, 5.km, 6.7.1994, 150
m, 41°30'N 27°15'E, ANES 1544; Babaeski,
south of Kumrular village, 6.7.1994, 160 m,
41°29'N 27°13'E; terricolous. Özdemir Türk
& Güner (1996: 460)

Cladonia chlorophaea (Flörke. &
Sommerf.) Speng.: 34: Verseggy (1982:
58).

Cladonia convoluta (Lam.) Anders: 22:
Uzunköprü, Çakmak-Sığircılı, 3.km,
22.7.1993, 150 m, 41°24'N 26°36'E; Meriç,
Mandadere place, 22.7.1993, 70 m, 41°11'N
26°26'E, ANES 1517; Lüleburgaz, Kumrular-
Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N
27°15'E, 1543; terricolous. 34: Steiner
(1899: 231 as *Cladonia foliacea* var
convoluta); Rigler (1852: 110 as *Cladonia*
endivifolia); Yaltırık (1966: 23 as *C. foliacea*
var. *convoluta*).

Cladonia fimbriata (L.) Fr.: 34: Steiner
(1899: 231); 39: Özdemir Türk & Güner
(1996: 460)

Cladonia foliacea (Huds.) Willd.: 22:
Meriç, Mandadere, 22.7.1993, 70 m,
41°11'N 26°26'E; 17: Gelibolu, Gelibolu-
Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E;
Eceabat, Alçıtepe, 28.8.1993, 70 m;
Lüleburgaz, Kumrular-Hamitabat, 5.km,
6.7.1994, 150 m, 41°30'N 27°15'E, ANES
1542; 59: Tekirdağ, Yeniköy-Barbaros, 2.km,
31.10.1992, 200 m, 40°49'N 27°23'E;
Saray-Kıyıköy, 2.km, 19.7.1993, 200 m,
41°27'N 27°55'E; Çatalca, Karacaköy-Sinekli,
6.km, 18.7.1993, 70 m, 41°24'N 28°20'E;
terricolous; Steiner (1899: 231 as var
albicornis)

Cladonia furcata (Huds.) Schrader: 39:
Lüleburgaz, Kumrular-Hamitabat, 5.km,
6.7.1994, 150 m, 41°30'N 27°15'E; 34:
Çatalca, Karacaköy-Sinekli, 6.km, 18.7.1993,
70 m, 41°24'N 28°20'E; terricolous. Steiner
(1899: 230); Yaltırık (1966: 23 as var.
pinnata and var. *racemosa*).

Cladonia pyxidata (L.) Hoffm.: 39:
Özdemir Türk & Güner (1996: 460);
Verseggy (1982: as *Cladonia minor*); 34:
Rigler (1852: 110); Yaltırık (1966: 23).

Cladonia rengiferina (L.) Wigg.: 34:
Rigler (1852: 110).

Cladonia rangiformis Hoffm.: 22:
Uzunköprü, Çakmak-Sığircılı, 3.km,
22.7.1993, 150 m, 41°24'N 26°36'E; Meriç,
Mandadere place, 22.7.1993, 70 m, 41°11'N
26°26'E; 17: Gelibolu, Gelibolu-Eceabat,
28.8.1993, 30 m, 40°19'N 26°30'E; Eceabat,
Alçıtepe, 28.8.1993, 70 m.; 39: Lüleburgaz,
Kumrular-Hamitabat, 5.km, 6.7.1994, 150
m, 41°30'N 27°15'E, ANES 1546; Babaeski,
south of Kumrular village, 6.7.1994, 160 m,
41°29'N 27°13'E, 59: Tekirdağ, Yeniköy-
Barbaros, 2.km, 31.10.1992, 200 m,
40°49'N 27°23'E; Kumbağ, recreation area,
31.10.1992, 100 m, 40°52'N 27°26'E; 34:
Çatalca, Karacaköy-Sinekli, 6.km, 18.7.1993,
70 m, 41°24'N 28°20'E, ANES 1120; South
of Odayeri village, 30.10.1992, 50 m;
terricolous. Steiner (1899: 230 as *C.*
rangiformis var *punges*), Szatala (1940);
Verseggy (1982: 58).

Cladonia squamosa Hoffm.: 34: Steiner (1899: 230).

Cladonia subcornuta Nyl.: 34: Steiner (1899: 231).

Cladonia uncialis (L.) Web. ex Wigg.: 34: Rigler (1852: 110).

Collema callopismum Massal.: 39: Özdemir Türk & Güner (1996: 461)

Collema melaneum Ach.: Rigler (1852: 110).

Collema nigrescens (Huds.) DC.: 34: Rigler (1852: 110); Steiner (1899: 222 as *Synecoblastus nigrescens*).

Dermatocarpon miniatum (L.) Mann: 39: Özdemir Türk & Güner (1996: 461)

+*Diploicia canescens* (Dikson) A. Massal.: 22: Enez Castle, 27.7.1993, 10 m, 40°03'N 26°02'E; 59: Barbaros-Tekirdağ, 1.km, 31.10.1992, 50 m, 40°54'N 27°26'E. On wall.

Diploschistes actinostomus (Pres. ex Ach.) Zahlbr.: 34: Steiner (1899: 234).

Diploschistes scruposus (Scherb.) Norman: 34: Steiner (1899: 234).

+*Diplotomma alboatrum* (Hoffm.) Flot.: 17: Eceabat, Abide, 28.8.1993, 150 m., 40°03'N 26°02'E; 59: Şarköy, northwest of Uçmakdere village, 31.10.1992, 210 m, 40°47'N 27°21'E; Barbaros-Tekirdağ, 1.km, 31.10.1992, 50 m, 40°54'N 27°26'E. Saxicolous.

Diplotomma epipolium (Ach.) Arnold: 17: Kadıköy, Bayramiç village, 28.7.1993, 150 m, 41°47'N 26°46'E, ANES 1432, saxicolous; 34: Steiner (1899: 233 as *D. epipolium* var *murorum*).

Evernia prunastri (L.) Ach.: 22: Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E, ANES 1031; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1208; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E, ANES 10025 39: Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E, ANES 1538; 59: Tekirdağ, Tatarlı-Araphacı,

1.km, 31.10.1992, 250 m, 40°49'N 27°13'E; Muratlı, Muratlı-Büyükkarıştıran, around Ergene bridge, 28.7.1993, 100 m, 41°12'N 27°30'E; 34: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E; corticolous. 17: Güner & Özdemir (1987: 378); 39, 59: Özdemir Türk & Güner (1996: 461)

Flavoparmelia caperata (L.) Hale: 22: Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E; 39: Kırklareli, north of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; Özdemir Türk & Güner (1996: 464 as *Parmelia caperata*); 59: Hayrabolu, around Temrezli reservoir, 26.7.1993, 150 m, 41°17'N 27°05'E; Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N 26°43'E; 34: Sarıyer, Büyükdere M. Akif Ersoy recreation area, 30.10.1992, 50 m, 41°09'N 28°58'E; Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, ANES 1078; corticolous. Rigler (1852: 110 as *Parmelia caperata*), Verseggy (1982: 61 as *P. caperata*)

+*Flavoparmelia soledians* (Nyl.) Hale: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, corticolous.

Graphis scripta (L.) Ach.: 34: Durusu-Çatalca, 30.10.1992, 50 m, 41°17'N 28°38'E, Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, ANES 1431; Büyükdere M. Akif Ersoy recreation area, 30.10.1992, 50 m, 41°09'N 28°58'E, ANES 1504; corticolous. Rigler (1852: 110 as *Opegraphascripta*), Steiner (1899: 236).

Gyalecta truncigena (Ach.) Hepp: 34: Steiner (1899: 235).

Haematomma nemetzi J. Steiner: 34: Steiner (1899: 230); 22, 39: Özdemir Türk & Güner (1996: 461).

+*Hypogymnia farinacea* Zopf: 22: Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E, ANES 1035, corticolous.

Brodoa intestiniformis (Vill.) Goward: 34: Rigler (1852: 110 as *Parmelia encausta*).

Hypogymnia physodes (L.) Nyl.: 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E,

1034, corticolous. 39: Özdemir Türk & Güner (1996: 461).

Lasallia pustulata (L.) Mèrat: 22, 39: Özdemir Türk & Güner (1996: 461).

+*Lecania cyrtella* (Ach.) Th. Fr.: 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, corticolous.

+*Lecania erysibe* (Ach.) Mudd: 22: Enez, Enez Castle, 27.7.1993, 10 m, 40°43'N 26°04'E, 39: Babaeski, railway station, 6.7.1993, 120 m, 41°26'N 27°04'E, on wall.

Lecanora albescens (Hoffm.) Branth & O.Rostr.: 34: Steiner (1899: 226).

Lecanora argentata (Ach.) Malme: 34: Rigler (1852: 110 as *Parmelia subfusca*).

Lecanora campestris (Schaer.) Hue: 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, ANES 1428; Sarıyer, Rumeli Kavağı, 9.7.1994, 20 m, 41°13'N 29°05'E, ANES 1429; saxicolous. 39: Özdemir Türk & Güner (1996: 461).

Lecanora carpineae (L.) Vain.: 22: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E, ANES 1070; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E; Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES 1206; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E, ANES 1044; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E; İpsala-Sınır, 27.7.1993, 50 m, 40°57'N 26°19'E; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; 39: Lüleburgaz, Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E, ANES 1548; 59: Tekirdağ, Yeniköy-Barbaros, 2.km, 31.10.1992, 200 m, 40°49'N 27°23'E; Saray, Saray-Kıyıköy, 2.km, 19.7.1993, 150 m, 41°19'N 28°06'E, ANES 1037; corticolous. 22, 39, 59: Özdemir Türk & Güner (1996: 461-462).

Lecanora chlorotera Nyl.: 22: Uzunköprü, Uzunköprü-Meriç, 5.km,

22.7.1993, 50 m, 41°16'N 26°38'E; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E; 59: Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; Çorlu, Marmara Ereğlisi, castle, 1.10.1992, 0 m, 41°48'N 27°56'E; Özdemir Türk & Güner (1996: 462); 34: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E; corticolous.

+*Lecanora conizeaoides* Nyl. ex Cromb.: 22: Keşan, Korudağı, 27.7.1993, 330 m, 40°39'E; Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E; Eceabat, Abide, 28.8.1993, 150 m., 40°03'N 26°02'E; 39: Babaeski, railway station, 6.7.1993, 120 m, 41°26'N 27°04'E; Babaeski-Alpullu, 9.km, 26.7.1993, 65 m, 41°24'N 27°08'E; Alpullu sugar factory, 27.7.1993, 65 m, 41°22'N 27°07'E; 59: Barbaros-Tekirdağ, 1.km, 31.10.1992, 50 m, 40°54'N 27°26'E; 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E; saxicolous.

Lecanora dispersa (L.) Sommerf.: 22: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Havsa, northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES 1209; Özdemir Türk & Güner (1996: 462); 17: Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E; Eceabat, Kumköy, 28.8.1993; 150 m, 40°17'N 26°23'E; Eceabat, Abide, 28.8.1993, 150 m., 40°03'N 26°02'E; 39: Babaeski, south of Kumrular village, 6.7.1994, 160 m, 41°29'N 27°13'E; saxicolous.

Lecanora esculenta Endl.: 34: Rigler (1852: 110 as *Parmelia esculenta*)

Lecanora expallens (Ach.) Ach.: 22: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E, corticolous. 22, 39: Özdemir Türk & Güner (1996: 462).

Lecanora luteo-rufa J. Steiner.: Steiner (1899: 226).

Lecanora muralis (Schreb.) Rabenh.: 39: Babaeski, railway station, 6.7.1993, 120 m, 41°26'N 27°04'E; 59: Şarköy, northwest of Uçmakdere village, 31.10.1992, 210 m, 40°47'N 27°21'E; ANES 1430: Saxicolous; 34: Rigler (1852: 110 as *Parmelia*

murorum); 22, 39: Özdemir Türk & Güner (1996: 462).

Lecanora albella (Pers.) Ach.: 34: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E; Steiner (1899: 226 as *Lecanora pallida*).

Lecanora pruinosa Chaub.: 39: Özdemir Türk & Güner (1996: 462).

Lecanora rupicola (L.) Zahlbr.: 22: Özdemir Türk & Güner (1996: 462); 34: Rigler (1852: 110 as *Parmelia glaucoma*)

+*Lecanora saligna* (Schrad.) Zahlbr.: 17: Gelibolu, Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E, ANES 1048. Saxicolous.

Lecanora strobilina (Spreng.) Kieffer: 39: Özdemir Türk & Güner (1996: 462)

Lecidea fuscoatra (L.) Ach.: 34: Rigler (1852: 110).

+*Lecidella carpathica* Körb.: 17: Kadıköy, Bayramiç village, 28.7.1993, 150 m, 41°47'N 26°46'E, ANES 1426, saxicolous. 34: Steiner (1899: 231 as *Lecidea latipex*)

Lecidella elaeochroma (Ach.) Hazsl.: 22: Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E; Uzunköprü, west of Yeniköy, 22.7.1993, 50 m, 41°20'N 26°44'E; Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E; North of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E, ANES 1509; Meriç, Mandadere, 22.7.1993, 70 m, 41°11'N 26°26'E; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; 17: Kilitbahir-Alçittepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E; Eceabat, Alçittepe, 28.8.1993, 70 m.; 39: Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; Müsellim-Kumrular, 3.km., 6.7.1994, 130 m, 41°28'N 27°11'E; Lüleburgaz, Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; Saray-Vize, entrance of Çakıllı village, 19.7.1993, 160 m, 41°30'N 27°52'E, ANES 1226; Saray-Kuyuköy, 2.km., 19.7.1993, 200 m, 41°27'N 27°55'E, ANES 1535 59: Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; Şarköy, Gölçük-Emirali, 3.km, 31.10.1992, 190 m, 40°45'N 27°02'E; South of Bulgur

village, 31.10.1992, 300 m, 40°44'N 27°07'E; Tekirdağ Yeniköy-Barbaros, 2.km, 31.10.1992, 200 m, 40°49'N 27°23'E; 34: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E; Karacaköy-Sinekli, 6.km, 18.7.1993, 70 m, 41°24'N 28°20'E; Durusu-Çatalca, 30.10.1992, 50 m, 41°17'N 28°38'E; Sarıyer, Bahçeköy, Faculty of Forestry, 30.10.1992, 50 m, 41°09'N 28°58'E; Rigler (1852: as *Lecidea parasema*); Steiner (1899: 231 as *L. parasema*); corticolous. 22, 39, 59: Özdemir Türk & Güner (1996: 462).

Lepraria incana (L.) Ach.: 39: Özdemir Türk & Güner (1996: 463).

Leprocaulon microscopicum (Vill.) D. Hawksw.: 34: Steiner (1899: 231 as *Leprocaulon nanum*).

Leptotraphis atomaria (Ach.) Szatala: 34: Steiner (1899: 238 as *Arthopyrenia atomaria*).

Lobaria pulmonaria (L.) Hoffm.: 34: Rigler (1852: 110 as *Sticta pulmonacea*) Steiner (1899: 222 as *S. pulmonaria*); Yaltrıncı (1966: 22); 39: Verseggy (1982: 56).

Lobaria scrobiculata (Scop.) DC.: 34: Rigler (1899: 238 as *Arthopyrenia atomaria*).

Lobothallia radiosa (Hoffm.) Hafellner: 59: Tekirdağ, Kumbağ, recreation area, 31.10.1992, 100 m, 40°52'N 27°26'E, saxicolous. 34: Rigler (1852: 110 *Parmelia circinata*)

Malgalaria grossa (Pers. ex Nyl.) Hafellner: 34: Steiner (1899: 232 as *Catillaria grossa*)

Megaspora verrucosa (Ach.) Hafellner & V. Wirth: 39: Özdemir Türk & Güner (1996: 463).

+*Melanelia elegantula* (Zahlbr.) Essl.: 17: Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E, ANES 1075, corticolous.

+*Melanelia exasperata* (De Not.) Essl.: 22: Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; 39: Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E; Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; 59: Şarköy, northwest of

Uçmaktedere village, 31.10.1992, 210 m, 40°47'N 27°21'E; Tekirdağ, Tatarlı-Araphacı, 1.km, 31.10.1992, 250 m, 40°49'N 27°13'E; corticolous.

Melanelia exasperatula (Nyl.) Essl.: **22**: Edirne, Hıdırağa village, 20.7.1993, 70 m, 41°44'N 26°38'E; Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E, ANES 1070; Uzunköprü, Çakmak-Sığırcılı, 3.km, 22.7.1993, 150 m, 41°24'N 26°36'E; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1220; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; **39**: Kırklareli, north of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; Lüleburgaz, Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; **59**: Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; Saray-Kıyıköy, 2.km, 19.7.1993, 200 m, 41°27'N 27°55'E, ANES 1071; Çerkezköy, north of Kapaklı, 19.7.1993, 200 m, 41°20'N 27°57'E; Kınalı-Çerkezköy, 20.km, 18.7.1993, 30 m., 41°13'N 28°06'E; **34**: Çatalca, Karacaköy-Sinekli, 6.km, 18.7.1993, 70 m, 41°24'N 28°20'E; Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E; Sarıyer, Demirciköy, 9.7.1994, 120 m, 41°14'N 29°02'E; corticolous. **22**, **39**: Steiner (1899: 224 as *Parmelia fuliginosa*).

Melanelia olivacea (L.) Ach.: Rigler (1852: 110 as *Parmelia olivacea*)

Melanelia soredata: **34**: Steiner (1899: 224 as *Parmelia soredata*).

Melanelia subaurifera (Nyl.) Essl.: **22**: Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E, ANES 1075; Babaeski, Müsellim-Kumrular, 3.km., 6.7.1994, 130 m, 41°28'N 27°11'E, ANES 1537; corticolous. **34**: Steiner (1899: 224 as *Parmelia subaurifera*)

Micarea poliocarpa (Anzi) Coppins: **34**: Steiner (1899: 232 as *Bilimbia albicans*)

Neofuscelia loxodes (Nyl.) Essl.: **34**: Steiner (1899: 224 as *Parmelia prolixa* var. *isidiotlyla*)

+**Neofuscelia pokoryni** (Körb.) Essl.:

39: Lüleburgaz, Kumrular-Hamitabat, 5. km, 6.7.1994, 150 m, 41°30'N 27°15'E, ANES 1504, terricolous.

Neofuscelia pulla (Ach.) Essl.: **22**: Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E; Enez-Yenice, 5.km, 27.7.1993, 50 m, 40°42'N 26°06'E, ANES 1424; **34**: Çatalca, Karacaköy-Sinekli, 6.km, 18.7.1993, 70 m, 41°24'N 28°20'E, saxicolous. **39**: Özdemir Türk & Güner (1996: 464 as *Parmelia pulla*).

Nephroma laevigatum Ach.: Steiner (1899: 222 as *Nephromium lustranicum*).

Ochrolechia microstictoides Räsänen: Verseghy (1982: 59 as *Pertusaria leprarioides*)

Ochrolechia pallescens (L.) A. Massal.: **34**: Rigler (1852: as *Parmelia pallescens*).

Ochrolechia parella (L.) A. Massal.: **22**: Enez-Yenice, 5.km., 27.7.1993, 50 m, 40°42'N 26°06'E, ANES 1424 **34**: Kemerburgaz-Kısırmandıra, 30.10.1992, 0 m, 41°42'N 28°49'E; saxicolous. Steiner (1899: 230); **39**: Özdemir Türk & Güner (1996: 463)

Ochrolechia tartarea (L.) A. Massal.: **34**: Steiner (1899: 230).

Opegrapha atra Pers.: **34**: Steiner (1899: 237).

Opegrapha varia Pers.: **34**: Steiner (1899: 237).

Opegrapha vulgata Ach.: **34**: Steiner (1899: 237).

Parmelia omphalodes: **34**: Verseghy (1982: 61).

Parmelia saxatilis (L.) Ach.: **34**: Rigler (1852: 110), Steiner (1899: 224).

Parmelia sulcata Taylor: **22**: Edirne, Hıdırağa village, 20.7.1993, 70 m, 41°44'N 26°38'E; Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E; northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 16°47'E; Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E;

Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E, ANES 1055; Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1207; Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; ipsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; **39**: Lüleburgaz, Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E, 1537; Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; Vize, Saray-Vize, entrance of Çakıllı village, 19.7.1993, 160 m, 41°30'N 27°52'E; **59**: Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; Tekirdağ, Tatarlı-Araphacı, 1.km, 31.10.1992, 250 m, 40°49'N 27°13'E; Tekirdağ, Yeniköy-Barbaros, 2.km, 31.10.1992, 200 m, 40°49'N 27°23'E; Muratlı-Büyükkarıştıran, around Ergene bridge, 28.7.1993, 100 m, 41°12'N 27°30'E; Saray-Kıyıköy, 2.km., 19.7.1993, 200 m, 41°27'N 27°55'E, ANES 1062; Çerkezköy-Saray, north of Kapaklı, 19.7.1993, 200 m, 41°20'N 27°57'E; **34**: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E, 1060; Büyükdere M. Akif Ersoy recreation area, 30.10.1992, 50 m, 41°09'N 28°58'E; corticolous. **22**, **39**, **59**: Özdemir Türk & Güner (1996:464); Güner & Özdemir (1987:377).

Parmelina carporrhizans (Taylor) Poelt: **34**: Steiner (1899:224 as *Parmelia carporrhizans*).

Parmelina quercina (Willd.) Hale: **22**: Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E, ANES 1131; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E, ANES 1130; İpsala-Sınır, 27.7.1993, 50 m, 40°57'N 26°19'E; Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; **59**: Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E; Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; corticolous; **22**, **39**:

Özdemir Türk & Güner (1996: 464 as *Parmelia quercina*)

Parmelina tiliacea (Hoffm.) Hale: **22**: Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; **39**: Kırklareli, north of Kavaklı, 26.7.1993, 41°39'N 27°09'E; Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E, 1526; **59**: Hayrabolu, around Temrezli reservoir, 26.7.1993, 150 m, 41°17'N 27°05'E; Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°17'N 27°05'E; Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N 26°43'E; corticolous. **34**: Steiner (1899: 224 as *Parmelia scortea*)

Parmotrema chinense (Osbeck) Hale & Ahti: **34**: Steiner (1899: 224 as *Parmelia perlata*)

Peltigera canina (L.) Willd.: **39**: Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; terricolous. Özdemir Türk & Güner (1996: 465); **34**: Steiner (1899: 222); Yaltrık (1966: 22).

Peltigera malacea (Ach.) Funck: Yaltrık (1966: 22).

Feltigera polydactyla (Necker) Duby: Szatala (1940), Verseggy (1982); **39**, **59**: Özdemir Türk & Güner (1996: 465)

Peltigera praetextata (Flörke ex Sommerf.) Zopf: Szatala (1940), Verseggy (1982: 56); **39**: Özdemir Türk & Güner (1996: 465).

Pertusaria albescens (Huds.) M. Choisy & Werner: **34**: Steiner (1899: 236 as *Pertusaria globifera*); Verseggy (1982: 58 as *P. discoidea* and *P. henrici*); **39**: Özdemir Türk et Güner (1996: 465).

Pertusaria amara (Ach.) Nyl.: **34**: Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, ANES 1503, corticolous. Steiner (1899: 235); Özdemir Türk et Güner (1996: 465).

Pertusaria chiodectonoides A. Massal.: **34**: Steiner (1899: 236 as *Pertusaria personata* J. Steiner).

Pertusaria dalmatica Erich.: Verseggy (1982: as 58).

Pertusaria pertusa (Weigel.) Tuck.: **34**: Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, corticolous. **39**: Özdemir Türk & Güner (1996: 465).

Pertusaria chiodectonoides A. Massal.: **34**: Steiner (1899: 236 as *Pertusaria personata* J. Steiner).

Pertusaria dalmatica Erich.: Verseggy (1982: as 58).

Pertusaria pertusa (Weigel.) Tuck.: **34**: Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, corticolous. **39**: Özdemir Türk & Güner (1996: 465).

Phaeophyscia orbicularis (Necker) Moberg: **22**: Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Uzunköprü, west of Yeniköy, 22.7.1993, 50 m, 41°20'N 26°44'E, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E; Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; Enez, Büyükevren-Abdurrâhim, 27.7.1993, 80 m, 40°38'N 26°14'E; **39**: Babaeski-Alpullu, 9.km, 26.7.1993, 65 m, 41°24'N 27°08'E; Lüleburgaz-Türkgeldi 3.km, 8.7.1994, 80 m, 41°19'E; Malkara, south of İbrice village, 26.7.1993, 150 m, 40°57'N 26°53'E; Çerkezköy-Saray, north of Kapaklı, 19.7.1993, 200 m, 41°20'N 27°57'E, ANES 1516; **34**: South of Odayeri village, 30.10.1992, 50 m; Büyükdere M. Akif Ersoy recreation area, 30.10.1992, 50 m, 41°09'N 28°58'E; corticolous. **22**, **39**: Özdemir Türk & Güner (1996: 466).

Pharcidia leptaleae J. Steiner: Steiner (1899: 238).

Phlyctis agalaea (Ach.) Flotow: Verseggy (1982: 60).

Physcia adscendens (Fr.) H. Olivier: **22**: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Sarayakpınar-Yolüstü, 20.7.1993, 60 m, 41°48'N 26°27'E; Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E, ANES 1525; northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES

1521; Uzunköprü, Çakmak-Sığircılı, 3.km, 22.7.1993, 150 m, 41°24'N 26°36'E; west of Yeniköy; 22.7.1993, 50 m, 41°20'N 26°44'E; Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; Uzunköprü, Bayramlı village, 22.7.1993, 70 m, 41°18'N 26°48'E, ANES 1520; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E, ANES 1508; Meriç-Uzunköprü, north of Paşayenice village, 22.7.1993, 50 m, 41°12'N 26°31'E; Meriç, Mandadereplace, 22.7.1993, 70 m, 41°11'N 26°26'E, ANES 1513; Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; İpsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; Enez, Hasköy, 27.7.1993, 50 m, 40°40' 26°18'E; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; **17**: Kilitbahir-Alçıtepe, 18.km, 28.8.1993, 60 m, 40°13'N 26°23'E; Eceabat, Abide, 28.8.1993, 150 m, 40°03'N 26°02'E; **39**: Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; Saray-Vize, entrance of Çakılı village, 19.7.1993, 160 m, 41°30'N 27°52'E, ANES 1227; **34**: Sarıyer, Bahçeköy, 9.7.1994, 120 m, 41°11'N 28°58'E; Büyükdere M. Akif Ersoy recreation area, 30.10.1992, 50 m, 41°09'N 28°58'E; Uskumruköy, cemetery, 9.7.1994, 20 m, 41°13'N 29°00'E; Sarıyer, Demirciköy, 9.7.1994, 120 m, 41°14'N 29°02'E, ANES 1512; corticolous. **17**: Güner ve Özdemir (1987: 379); **22**, **39**: Özdemir Türk & Güner (1996: 466).

Physcia aipolia (Ehrh. ex Humb.) Hampe: **22**: Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; İpsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; **59**: Malkara, south of İbrice village, 26.7.1993, 150 m, 40°57'N 26°53'E; Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; northwest of Uçmakdere village, 31.10.1992, 210 m, 40°47'N 27°21'E; **59**: Barbaros-Tekirdağ, 1.km, 31.10.1992, 50 m, 40°54'N 27°26'E; Corticolous. **39**, **59**: Özdemir Türk & Güner (1996: 466).

+*Physcia caesia* (Hoffm.) Fűr.: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E, corticolous.

+*Physcia dubia* (Hoffm.) Lettau: **59**: Çerkezköy-Saray, north of Kapaklı, 19.7.1993, 200 m, 41°20'N 27°57'E, ANES 1522, corticolous.

Physcia semipinnata Gmelin: **22**: İpsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; **17**: Kilitbahir-Alçıtepe, 18.km, 28.8.1993, 40°13'N 26°23'E; **39**: Lüleburgaz, Kumrular-Hamitabat, 5.km, 6.7.1994, 150 m, 41°30'N 27°15'E; **59**: Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; Kınalı-Çerkezköy, 20.km, 18.7.1993, 30 m., 41°13'N 28°06'E; corticolous. **34**: Steiner (1899: 24 as *Physcia stellaris* var. *leptalea*). **39**, **59**: Özdemir Türk & Güner (1996: 466).

Physcia stellaris (L.) Nyl.: **22**: Edirne, Edirne-Karaağaç, 22.7.1993, 50 m, 41°40'N 26°31'E; Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E; northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES 1532; Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E, ANES 1214; Uzunköprü, Bayramlı village, 22.7.1993, 70 m, 41°18'N 26°48'E, ANES 1529; Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; İpsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'N 26°24'E; **39**: Lüleburgaz-Türkgeldi 3.km, 8.7.1994, 80 m, 41°22'N 27°19'E; corticolous. **34**: Steiner (1899: 224); **22**, **39**: Özdemir Türk & Güner (1996: 466).

Physcia tenella (Scop.) DC.: **34**: Steiner (1899: 224).

Physconia distorta (With.) J.R. Laundon: **17**: Eceabat, Alçıtepe, 28.8.1993, 70m., ANES 1515; **59**: Malkara, Danişment village, 27.7.1993, 270 m, 41°52'N 26°44'E; Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; Tekirdağ, Yeniköy-Barbaros, 2.km, 31.10.1992, 200 m, 40°49'N 27°23'E; corticolous. **39**: Özdemir Türk & Güner (1996: 466).

Physconia enteroxantha (Nyl.) Poelt: **39**: Özdemir Türk & Güner (1996: 466).

Physconia grisea (Lam.) Poelt: **22**:

Edirne, Hıdırağa village, 20.7.1993, 70 m, 41°44'N 26°38'E; Enez Castle, 27.7.1993, 10 m, 40°43'N 26°04'E, ANES 1087; Büyükevren-Abdurrahim, 27.7.1993, 80 m, 40°38'N 26°14'E; **39**: Kırklareli, North of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; **59**: Hayrabolu, Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N 26°43'E; Malkara, south of İbrice village, 26.7.1993, 150 m, 40°57'N 26°53'E; **34**: Sarıyer, Bahçeköy, 9.7.1994, 120 m, 41°11'N 28°58'E; Demirciköy, 9.7.1994, 120 m, 41°14'N 29°02'E, ANES 1512; corticolous and muscicolous; **22**, **39**: Özdemir Türk & Güner (1996: 466).

+*Physconia perisidiosa* (Erichsen) Moberg: **39**: Kırklareli, north of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; **59**: Hayrabolu, Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N 26°43'E, corticolous.

Placidopsis tenella* (Nyl.) Zahlbr.: **59: Altınova-Barbaros, 4.km, Yıldızevler, 01.10.1992, 50 m, 40°46'N 27°30'E, ANES 1607; Terricolous.

This species has been recorded only from two localities in Italy and one locality in Algeria so far. *P. tenella* is a rare species according to Breuss (15). According to the references (16-18), both the genus and species are the first records for Turkey and the locality given for *P. tenella* is the northeast locality in the World.

+*Placynthium nigrum* (Huds.) Gray: **17**: Gelibolu, Gelibolu-Eceabat, 28.8.1993, 30 m, 40°19'N 26°30'E, saxicolous.

Plastismatia glauca (L.) W.L. Culb & C.F. Culb.: Rigler (1852: 110 as *Cetraria glauca*)

Pleurosticta acetabulum (Necker) Elix & Lumbsch: **22**: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E; Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E; Havsa, Arpaç village, 23.7.1993, 130 m, 41°42'N 26°51'E; Northeast of Kuzucu village, 22.7.1993, 150 m, 41°30'N 26°47'E, ANES 1534; Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; İpsala-Sınır,

27.7.1993, 50 m, 40°57'N 26°19'E; Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; İpsala, Koyunyeri-Kocahıdır, 2.km, 27.7.1993, 50 m, 40°49'E; **39**: Babaeski, railway station, 6.7.1993, 120 m, 41°26'N 27°04'E; Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; **59**: Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; Tekirdağ, Yeniköy-Barbaros, 2.km, 31.10.1992, 200 m, 40°49'N 27°23'E; Muratlı-Büyükkarıştıran, around Ergene bridge, 28.7.1993, 100 m, 41°12'N 27°30'E; corticolous. **17**: Güner ve Özdemir (1987: 377); **22**, **39**: Özdemir Türk & Güner (1996: 464 as *Parmelia acetabulum*)

Porina ahlesiana (Körber) Zahlbr.: **34**: Steiner (1899: 237 as *Verrucula ahlesiana*).

Porpidia cinereoatra (Ach.) Hertel & Knoph: **34**: Steiner (1899: 232 as *Lecidea meiospora*).

Porpidia macrocarpa (DC.) Hertel & Schwab: **34**: Steiner (1899: 231 as *Lecidea platycarpa*).

+*Protoblastenia rupestris* (Scop.) J. Steiner: **34**: Sarıyer, Belgrat Ormanı, Bentler, 30.10.1992, 150 m, 41°10'N 28°57'E, on wall.

Protoparmelia badia (Hoffm.) Hafellner: **22**: Enez-Yenice, 5.km, 27.7.1993, 50 m, 40°42'N 26°06'E, ANES 1519, saxicolous. Özdemir Türk & Güner (1996: 467).

Pseudevernia furfuracea (L.) Zopf var. *furfuracea*: **34**: Rigler (1852: as *Parmelia furfuracea* Fr.); **22**: Özdemir Türk & Güner (1996: 467).

Ramalina calicaris (L.) Fr.: **59**: Babaeski, Müsellim-Kumrular, 3.km, 6.7.1994, 130 m, 41°28'N 27°11'E, corticolous. **34**: Rigler (1852: 110).

Ramalina farinacea (L.) Ach.: **59**: Tekirdağ, Tatarlı-Araphacı, 1.km, 31.10.1992, 250 m, 40°49'N 27°13'E; Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; **34**: Çatalca, Hallaçlı

village, 18.7.1993, 150 m, 41°19'N 28°06'E, ANES 1113; corticolous. Steiner (1899: 222), 17: Güner ve Özdemir (1987: 378/; 39: Özdemir Türk & Güner (1996: 467).

Ramalina fastigiata (Pers.) Ach.: 22: Edirne, Musabeyli village, 23.7.1993, 180 m, 41°44'N 26°38'E; 59: Hayrabolu, around Temrezli reservoir, 26.7.1993, 150 m, 41°17'N 27°05'E; 34: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E, ANES 1531; corticolous. 39: Özdemir Türk & Güner (1996: 467).

Ramalina fraxinea (L.) Ach.: 22: Uzunköprü, south of Çöpköy, 26.7.1993, 100 m, 41°13'N 26°49'E; 39: Babaeski-Lüleburgaz, Sarıcaali reservoir junction, 8.7.1994, 80 m, 41°24'N 27°13'E; Özdemir Türk & Güner (1996: 467); 59: Hayrabolu, around Temrezli reservoir, 26.7.1993, 150 m, 41°17'N 27°17'N 27°05'E; Malkara, Danişment village 27.7.1993, 270 m, 41°52'N 26°44'E; corticolous.

Ramalina nuda J. Steiner: 34: Steiner (1899: 223).

+Ramalina pollinaria (Westr.) Ach.: 22: Meriç, Mandadere place, 22.7.1993, 70 m, 41°11'N 26°26'E; ANES 1536; corticolous.

Ramalina polymorpha (Lilj.) Ach.: 34: Steiner (1899: 223); 22: Özdemir Türk & Güner (1996: 467).

Rhizocarpon geographicum (L.) DC.: 59: Şarköy, northwest of Uçmakedere village, 31.10.1992, 210 m, 40°47'N 27°21'E, saxicolous. 34: Rigler (1852: 110 as *Lecidea geographica*); Steiner (1899: 234); 22, 39: Özdemir Türk & Güner (1996: 467).

+Rhizocarpon obscuratum (Ach.) A. Massal.: 34: Sarıyer, Rumeli Kavağı, 9.7.1994, 20 m, 41°13'N 29°05'E; saxicolous.

Rhizocarpon petraeum (Wulfen) A. Massal.: 34: Rigler (1896: 110 as *Lecidea atroalba*)

Rinodina exigua (Ach.) S. Gray: 34: Steiner (1899: 224); 22, 39, 59: Özdemir Türk & Güner (1996: 468).

+Rinodina gennarii Bagl.: 59: Çorlu, Marmara Ereğlisi, castle, 1.10.1992, 0 m, 41°48'N 27°56'E, on wall.

Rinodina pyrina (Ach.) Arnold: 22: Uzunköprü, Uzunköprü-Meriç, 5.km, 22.7.1993, 50 m, 41°16'N 26°38'E; İpsala-Sınır, 27.7.1993, 50 m, 40°57'N 26°19'E; Keşan-Beğendik, 5.km, 27.7.1993, 80 m, 40°53'N 26°30'E; 39: Babeski, Alpulu sugar factory, 27.7.1993, 65 m, 41°22'N 27°07'E; Özdemir Türk & Güner (1996: 468); 59: Şarköy, south of Bulgur village, 31.10.1992, 300 m, 40°44'N 27°07'E; corticolous.

Rinodina subrufa J. Steiner: 34: Steiner (1899: 225).

+Sarcogyne regularis Körb.: 22: Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E, on wall.

Squamarina cartilaginea (With.) P. James: 34: Rigler (1852: 110 as *Parmelia crassa*)

+Staurothele rufa (A. Massal.) Zsch.: 22: Edirne, Sarayakpınar village, 20.7.1993, 70 m, 41°46'N 26°27'E, on tile.

Strigula affinis (A. Massal.) R. Harris: 34: Steiner (1899: 238 as *Sagedia affinis*).

Tephromela atra (Huds.) Hafellner ex Kalb: 39: Kırklareli, north of Kavaklı, 26.7.1993, 180 m, 41°39'N 27°09'E; 59: Hayrabolu, Davuteli-Harmanlı 2.km, 26.7.1993, 130 m, 41°04'N 26°43'E; corticolous; Tekirdağ, Kumbağ, recreation area, 31.10.1992, 100 m, 40°52'N 27°26'E; saxicolous; 34: Çatalca, Hallaçlı village, 18.7.1993, 150 m, 41°19'N 28°06'E, ANES 1228, corticolous; Sarıyer, Rumeli Kavağı, 9.7.1994, 20 m, 41°13'N 29°05'E, saxicolous. Rigler (1852: 110 as *Parmelia atra*); Steiner (1899: 226 as *Lecanora atra*); 22, 39: Özdemir Türk & Güner (1996: 468).

Umbilicaria crustulosa (Ach.) Frey: 39: Özdemir Türk & Güner (1996: 468).

Umbilicaria grisea Hoffm.: 39: Özdemir Türk & Güner (1996: 468).

Umbilicaria hirsuta Hoffm.: 34: Rigler

(1852: 110)

Usnea barbata (L.) Web. ex Wigg.: 34: Rigler (1852: 110).

Verrucaria calciseda DC.: 39: Özdemir Türk & Güner (1996: 468).

Verrucaria maculiformis Kremp.: Steiner (1899: 237).

Verrucaria nigrescens Pres.: 17: Eceabat, Kumköy, 28.8.1993, 150 m, 40°17'N 26°23'E, on tile. 39: Özdemir Türk & Güner (1996: 468).

Verrucaria rupestris Arnold.: 34: Steiner (1899: 237).

Verrucaria fuscella (Turner) Winch: Steiner (1899: 237 as *Verrucula fuscella*).

Xanthoparmelia conspersa (Ehrh. ex Ach.) Hale: 34: Karacaköy-Sinekli, 6.km, 18.7.1993, 70 m, 41°24'N 28°20'E, ANES 1077, saxicolous. 39: Özdemir Türk & Güner (1996: 464 as *Parmelia conspersa*).

Xanthoparmelia somloensis (Gyeln.) Hale: 59: Şarköy, northwest of Uçmakedere village, 31.10.1992, 210 m, 40°47'N 27°21'E, ANES 1422; Çatalca, Karacaköy-Sinekli, 6.km, 18.7.1993, 70 m, 41°24'N 28°20'E; saxicolous. 39: Özdemir Türk & Güner (1996: 465 as *Parmelia taractica*).

Xanthoparmelia tinctina (Maheu & A. Gillet) Hale: 22, 39: Özdemir Türk & Güner (1996: 465 as *Parmelia tinctina*).

Xanthoria calcicola Oxner: 22: Enez Castle, 27.7.1993, 10 m, 40°43'N 26°04'E; Keşan, Korudağı, 27.7.1993, 330 m, 40°39'N 26°35'E; 59: Şarköy, northwest of Uçmakedere village, 31.10.1992, 210 m, 40°47'N 27°21'E; saxicolous. 39: Özdemir Türk & Güner (1996: 468).

Xanthoria parietina (L.) Th. Fr.: 34: Rigler (1852), Steiner (1899: 225); 17: Güner & Özdemir (1987); 22, 39, 59: Özdemir Türk & Güner (1996: 468-469). This species has been found at almost all localities in the Thrace Region.

Discussion

To date, studies including this one carried out in the Thrace region in Turkey have reported 201 lichen species (1-8). A great number of lichens formerly collected in Istanbul by Steiner (3) have not been found in this area recently and have to be classified as extinct in these areas. The localities given in that paper are urban areas now. One genus (*Placidiopsis*) is a new record for Turkey, and 33 species are new records for the Thrace region in Turkey.

The natural vegetation of the Thrace region except that of Yıldız Mountains has been heavily destroyed by anthropogenic factors (9). Most of the area is covered by crop fields. In the vicinities of towns and villages small groups of oak trees are seen, and in the banks of streams, around ponds and fountains, poplar and willow trees grow. In this type of habitat, the barks of the trees are the substrates for the same lichen species that are nitrophilous and prefer exposure to the sun and growing in nutrient-rich and enriched substrata. Some examples of these lichens are *Amandinea punctata*, *Anaptychia ciliaris*, *Caloplaca* spp., *Melanelia elegantula*, *Parmelina quercina*, *P. tiliacea*, *Phaeophyscia orbicularis*, *Pleurosticta acetabulum*, *Physcia* spp., *Ramalina fraxinea*. *Graphis sicripta* and *Chrysothrix candelaris* have been found with

the species having wide ecological amplitude and also on the shaded barks in Belgrat Forest.

The pine forests in the Koru and Işıklar Mountain and the Gelibolu Peninsula are too young for high lichen diversity and a rich lichen flora. But the oak trees in the forests of these mountains show richer lichen flora containing species similar to those seen on oak trees in the study area.

In the region, rocky structures are not very large or common, which is why the diversity of the saxicolous species is not rich. Thirteen species have been found growing on roof tiles and walls, including *Caloplaca cirrochroa*, *C. decipiens*, *C. saxicola*, *C. teicholyta*, *Diploicia canescens*.

While 83 species reported in this study grow on only one substratum, the rest grow on two or more substrata.

Acknowledgement

The financial support provided by TÜBİTAK is gratefully acknowledged (TBAG-1128) and many thanks go to Dr. Volker John for checking some of the samples and providing some literature. Also we thank Dr. Ottmar Breuss for the species determination of the *Placidiopsis* specimen.

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