



# Lichens and lichenicolous fungi from the Siirt Province, Turkey

Kenan Yazıcı<sup>1</sup> & Andre Aptroot<sup>2</sup>

<sup>1</sup> Karadeniz Technical University, Faculty of Science, Biology Department, 61080, Trabzon, Turkey, e-mail: kcagri\_1997@yahoo.com (corresponding author)

<sup>2</sup> Dr Kuijperkade 8 NL 1561 TD. Krommenia, The Netherlands, e-mail: andreaptroot@gmail.com

Received: April 8, 2025 | Accepted: June 11, 2025 | Published: February 3, 2026

## Abstract

As a result of the lichenological exploration in the Siirt Province of Turkey, the authors report 327 lichens, seven lichenicolous lichens and 27 lichenicolous fungi, representing 135 genera of *Ascomycota*. *Thelidium pyrenophorum* is new to Turkey, and 301 lichens and 26 lichenicolous fungi are new records for the Siirt Province. Furthermore, five lichens (*Anema decipiens*, *Lecanora stenotropa*, *Peccania tiruncula*, *Sarcogyne arenosa*, and *Verrucaria bryoctona*) have been found for the second time in Turkey. The localities where the taxa have been collected and their substrata are presented.

## Keywords

biodiversity, lichens, new records, southeastern Anatolia

## Citation

Yazıcı, K. & Aptroot, A. 2026. Lichens and lichenicolous fungi from the Siirt Province, Turkey. – *Phytologia Balcanica*. 32: 3-26 -- ISSN 1310-7771 (print), 1314-0027 (online).

## Introduction

Studies on lichens and lichenicolous fungi in Turkey have been stepped up in recent years, but still there are considerable areas waiting for exploration of lichens, especially in eastern and southeastern Anatolia (John & Türk 2017; John & al. 2020; Güvenç & al. 2020; John & Güvenç 2023).

Recently, many studies have been carried out on lichens in the eastern and southeastern Anatolia, including the Siirt Province (Aptroot & Yazıcı 2009, 2012; Aslan & Yazıcı 2013; Candan & Özdemir Türk 2008; Çobanoğlu & Doğan 2010; Çobanoğlu & Yavuz 2007; Karagöz & al., 2022, Krisai-Greilhuber & al. 2017, Oran & Öztürk 2007; Osyczka & al. 2011; Sohrabi & al. 2013; Song & al. 2019; Şenkardeşler 2009; Şenkardeşler & Calpa 2011; Şenkardeşler & Sohrabi 2011; Vondrák & al. 2012; Yazıcı 2012; Yazıcı & Aptroot 2017; Yazıcı & Aslan 2016a,b, 2021, 2022a,b, 2023; Yazıcı & Etayo 2014; Yazıcı

& al. 2008, 2010a,b,c, 2011a,b,c, 2012, 2013, 2018, 2019, 2020a,b, 2021, 2022, 2023; Zakeri & al. 2021).

Forty-two lichen taxa and one lichenicolous fungus (*Muellerella erratica*) have been reported earlier from the Siirt Province (John & Türk 2017; John & al. 2020; Mayrhofer 1984; Mayrhofer & al. 1990; Navarero-Rosinés & Hladun 1996; Oran & Öztürk 2007; Sohrabi & al. 2013; Şenkardeşler 2009; Şenkardeşler & Sohrabi 2011; Yazıcı & Aslan 2022a,b, 2023; Yazıcı & Engin 2024; Yazıcı & al., 2010a, 2023). However, the former studies do not reflect the lichen and lichenicolous fungus flora of the region.

The present paper is a contribution to the checklist of lichens in the Siirt Province.

Located in the northeastern end of southeastern Anatolia, between 37°34'44"-38°15'53"N and 41°21'51"-42°53'14"E, the surface area of the Province is 11.003 km<sup>2</sup>. Its territory consists at 75.7% of mountains, 21.5% of plateaus and 2.8% of plains (Kılıçoğlu & al. 1986).



**Table 1.** List of collecting localities in the Siirt Province

No	Localities	Coordinates	Altitudes (m)	Date
1	Center: west of Koçlu village, 2 km from Kayaboğaz village to South part, on the main road	37°52'57.71"N 41°58'40.24"E	853	03.08.2021
2	Center: after exit of Botan valley, towards Kayaboğaz village, on the main road	37°53'32.98"N 41°59'09.30"E	706	04.08.2021
3	Center: Eruh road, 300 m to Botan bridge	37°54'24.62"N 41°58'41.49"E	608	04.08.2021
4	Center: 1 km to Southeast of Doluharman village	37°58'46.98"N 41°55'30.69"E	948	09.08.2022
5	Center: 1 km to İnkapı Village, South part	37°59'25.11"N 41°53'34.87"E	854	09.08.2022
6	Center: 2 km after exit of İnkapı village, northeast	38°00'51.41"N 41°54'35"E	796	09.08.2022
7	Center: northeast of Pınarca village	37°59'06.41"N 41°51'42.56"E	586	09.08.2022
8	Center: 1 km to southeast of Beşyol village	38°00'36.68"N 41°52'21.94"E	696	09.08.2022
9	Center: Tepebaşı village, east of Saritepe village	38°01'21.02"N 41°49'30.03"E	806	09.08.2022
10	Center: North of Saritepe village	38°02'53.60"N 41°48'36.80"E	845	09.08.2022
11	Center: West of Tuzkuyusu village	38°00'06.18"N 41°49'33.87"E	735	09.08.2022
12	Center: North of Pınarova village	37°59'17.10"N 41°48'52.26"E	657	09.08.2022
13	Center: exit of Aktaş villageişi, western part	37°57'48.85"N 41°46'53.57"E	570	09.08.2022
14	Center: exit of Gökçebağ village, western part	37°53'54.04"N 41°51'33.19"E	996	10.08.2022
15	Center: exit of Gökçebağ village, southwestern part, towards Bostancık and Zorkaya villages	37°52'03.56"N 41°52'20.85"E	946	10.08.2022
16	Center: between Zorkaya-Bostancık villages, West of Zorkaya village	37°50'23.58"N 41°51'28.31"E	598	10.08.2022
17	Center: West of Bostancık village	37°49'41.42"N 41°50'23.64"E	558	10.08.2022
18	Center: northeast of Konarcık village	37°50'14.19"N 41°50'34.71"E	551	10.08.2022
19	Center: 2 km to Kışlacık village, southeast part	37°51'10.10"N 41°50'01.19"E	560	10.08.2022
20	Center: east of Meydandere village	37°55'27.76"N 42°06'08.73"E	957	13.09.2022
21	Center: Ekmekçiler village	37°53'12.81"N 42°07'50.71"E	1475	13.09.2022
22	Center: West of Çölköy	37°52'02.89"N 42°03'41.56"E	720	14.09.2022
23	Center: east of Akdoğmuş village	37°51'20.33"N 42°02'59.78"E	689	14.09.2022
24	Center: northwest of Yokuşbağları village	37°46'30.64"N 41°50'22.03"E	626	15.09.2022
25	Center: North of Meşelidere	37°47'13.62"N 41°51'58.24"E	810	15.09.2022
26	Center: southwest of Bağlıca village	37°47'37.17"N 41°53'10.00"E	852	15.09.2022
27	Center: Demirkaya village	37°48'36.17"N 41°55'12.93"E	636	15.09.2022
28	Eruh: Dikboğaz-Bağgöze road, towards Ormanardı village	37°43'17.19"N 41°51'15.01"E	608	03.08.2021

No	Localities	Coordinates	Altitudes (m)	Date
29	Eruh: exit of Ormanardı village, 1 km westward	37°43'18.10"N 41°49'52.84"E	611	03.08.2021
30	Eruh: 2-3 km from Bağgöze village to westward, mainroad side, towards Kavaközü village	37°42'53.50"N 41°52'57.44"E	735	03.08.2021
31	Eruh: after Bağgöze village, around Kavaközü village	37°44'06.79"N 41°51'27.55"E	717	03.08.2021
32	Eruh: towards Bağgöze village, Dikboğaz-Bağgöze villages 1 km to the western part, from the crossroads, North of Gönüldalı village	37°42'50.00"N 42°04'17.85"E	1254	03.08.2021
33	Eruh: Dikboğaz-Bağgöze crossroads	37°42'45.46"N 42°05'29.89"E	1435	03.08.2021
34	Eruh; center; South exit, on the main road before coming to Çetinkol village	37°44'39.96"N 42°08'46.72"E	1120	03.08.2021
35	Eruh: opposite of Demiremek village, southern part	37°43'00.85"N 42°06'48.32"E	1311	03.08.2021
36	Eruh: Karadayılar village	37°41'44.84"N 41°57'28.84"E	853	03.08.2021
37	Eruh: notheast of Bozaltı village, roadside	37°42'30.75"N 42°03'00.33"E	1129	03.08.2021
38	Eruh: 1-2 km West from Yokuşlu village, 1-2 km to Bozkuş village	37°40'38.71"N 41°59'14.02"E	901	03.08.2021
39	Eruh: Eruh-Bilgili village junction, 2 km towards	37°48'24.17"N 42°11'03.16"E	751	04.08.2021
40	Eruh: Bilgili village	37°47'20.84"N 42°16'43.01"E	1350	04.08.2021
41	Eruh: Bilgili yolu üzeri, Çayırlı köyü karşısı, kuzeyi	37°47'17.35"N 42°13'29.62"E	852	04.08.2021
42	Eruh: Bilgili village road, roadside	37°46'56.27"N 42°14'14.82"E	821	04.08.2021
43	Eruh: YeniKuşdalı village road	37°46'43.82"N 42°16'32.87"E	1095	04.08.2021
44	Eruh: 1 km to YeniKuşdalı village	37°46'22.28"N 42°16'30.27"E	1354	04.08.2021
45	Eruh: on Eruh main road, opposite of Çağbaşı village	37°50'22.96"N 42°03'57.51"E	888	04.08.2021
46	Eruh: center, on Eruh main road, opposite of Akdoğan village, westward	37°50'51.99"N 42°01'14.27"E	851	04.08.2021
47	Eruh: on Eruh man road, towards Bayramlı village	37°50'36.55"N 42°06'36.76"E	967	04.08.2021
48	Eruh: on Eruh main road, opposite of Çizmeli village, on the main road	37°48'55.00"N 42°10'29.41"E	810	04.08.2021
49	Eruh: Gölburnu village	37°38'58.69"N 42°05'16.53"E	1214	05.08.2021
50	Eruh: Özlüpelit village	37°40'27.31"N 42°05'46.57"E	1250	05.08.2021
51	Eruh: exit of Dikboğaz village, Southern part	37°41'08.19"N 42°06'47.80"E	1548	05.08.2021
52	Eruh: 1.5 km to North of Dikboğaz main road	37°42'35.46"N 42°06'04.19"E	1525	05.08.2021
53	Eruh: 1.5 km to Erenkaya and Ballıkavak villages, on the road	37°38'52.20"N 42°04'18.50"E	1197	05.08.2021
54	Eruh: Ballıkavak village, on the road	37°38'56.82"N 42°03'53.34"E	1164	05.08.2021
55	Eruh: Dönerdöver village	37°38'38.25"N 42°10'20.24"E	1232	05.08.2021
56	Eruh: 1.5 km to Dağdöşü village, on the road	37°40'26.41"N 42°08'09.08"E	1324	05.08.2021

No	Localities	Coordinates	Altitudes (m)	Date
57	Eruh: Cintepe village	37°44'38.07"N 42°07'38.51"E	1297	05.08.2021
58	Pervari: on Pervari-Gökbudak villages main road	37°54'05.65"N 42°36'55.18"E	1532	26.08.2021
59	Pervari: on Pervari-Gökbudak main road	37°53'54.70"N 42°38'40.50"E	1626	26.08.2021
60	Pervari: center, eastern exit	37°55'47.80"N 42°33'38.05"E	1471	26.08.2021
61	Pervari: Kocaçavuş village	37°55'25.72"N 42°35'04.22"E	1437	26.08.2021
62	Pervari: 2-3 km after Beğendik village roadside	37°58'22.62"N 42°38'21.17"E	1050	26.08.2021
63	Pervari: Sarıdam village, roadside	37°57'44.07"N 42°37'54.55"E	1318	26.08.2021
64	Pervari: 500 m to Çobanören village, roadside	37°57'02.88"N 42°35'37.27"E	1414	26.08.2021
65	Pervari: on the road of Çukurköy village (southeast)	37°57'49.64"N 42°23'09.20"E	1271	27.08.2021
66	Pervari: south of Gölgeli village, roadside	37°57'23.37"N 42°27'48.72"E	990	27.08.2021
67	Pervari: Narsuyu village	37°57'20.33"N 42°30'36.79"E	1083	27.08.2021
68	Pervari: towards Narsuyu village, Kuman district, roadside	37°57'23.66"N 42°31'24.25"E	1036	27.08.2021
69	Pervari: Güleçler village, southern part, roadside	37°57'06.47"N 42°32'20.23"E	1150	27.08.2021
70	Pervari: between Tuzcular-Aydınlar villages	37°53'35.35"N 42°24'58.38"E	1480	27.08.2021
71	Pervari: Ekindüzü village, (eastern part), roadside	37°54'29.21"N 42°22'22.02"E	1478	27.08.2021
72	Pervari: between Gökçekoru-Çatköyü villages, on mainroadside	37°56'17.33"N 42°25'59.44"E	1660	27.08.2021
73	Pervari: South of Ormandalı village	37°56'06.46"N 42°29'20.82"E	1453	27.08.2021
74	Pervari: between Ormandalı-Kubik villages, mainroadside	37°56'09.26"N 42°28'21.14"E	1587	27.08.2021
75	Pervari: 1 km to Taşdibek village, 1 km kala, southeastern part, mainroadside	37°56'14.00"N 42°20'04.72"E	1395	27.08.2021
76	Pervari: from Taşdibek village towards the crossroads of Kilis village, western part	37°55'18.73"N 42°16'55.37"E	1324	28.08.2021
77	Pervari: northeast of Tosuntarla village	37°53'15.58"N 42°14'54.48"E	1127	28.08.2021
78	Pervari: Kilis-Palamutlu road, 4-5 km forward	37°53'54.88"N 42°15'20.36"E	973	28.08.2021
79	Pervari: crossroad of Kilis-Palamutlu, southwest of Kilis village	37°54'47.19"N 42°14'14.56"E	708	28.08.2021
80	Pervari: 1-2 km to Palamutlu village, roadside	37°53'09.10"N 42°12'57.58"E	1248	28.08.2021
81	Pervari: 3-4 km east from Köprüçay village, on the road of Doğanca village, South of Karasungur village	37°52'10.12"N 42°19'19.31"E	1154	28.08.2021
82	Pervari: on the road of Köprüçay-Doğanca villages, on the mainroad	37°50'59.10"N 42°18'57.68"E	1594	28.08.2021
83	Pervari: 2-3 km to Köprüçay village, roadside	37°53'37.84"N 42°16'17.83"E	988	28.08.2021
84	Pervari: 1.5-2 km to Karasungur village, on the road	37°53'19.73"N 42°19'47.22"E	1117	28.08.2021

No	Localities	Coordinates	Altitudes (m)	Date
85	Pervari: 2-3 km to Doğanca village, on the mainroad	37°49'44.02"N 42°19'04.62"E	1635	28.08.2021
86	Pervari: South of Erkent village	37°45'06.96"N 42°21'17.82"E	1287	22.09.2022
87	Pervari: South of Okçular village	37°43'56.04"N 42°26'03.04"E	1646	22.09.2022
88	Pervari: 1 km to Belenoluk, southwest	37°54'02.52"N 42°46'12.78"E	1364	23.09.2022
89	Pervari: east of Bentköy	37°56'01.45"N 42°45'15.39"E	1295	23.09.2022
90	Pervari: southeast of Keskin village, West of Bentköy	37°56'22.30"N 42°42'40.54"E	1810	23.09.2022
91	Pervari: notheast of Beğendik, on the road of Gümüşören village	37°58'36.53"N 42°40'29.69"E	1646	24.09.2022
92	Pervari: 8 km to nothwest of Doğanköy	37°46'11.45"N 42°45'32.46"E	1859	24.09.2022
93	Pervari: West of Söğütönü village	37°54'19.88"N 42°44'47.17"E	1679	24.09.2022
94	Şirvan: 300 m forward from the crossroads of Şirvan-Cevizlik village	38°03'20.70"N 42°03'46.75"E	964	07.06.2022
95	Şirvan: towards the road of Cevizlik village, 400 m after the crossroads of Maden village, roadside, West of Demirkapı, 3 km to crossroads of Sit village	38°04'59.9"N 42°03'48.42"E	1052	07.06.2022
96	Şirvan: West of Sit village	38°05'40.82"N 42°03'40.30"E	1211	07.06.2022
97	Şirvan: on road of Demirkapı village, southern part	38°04'26.78"N 42°04'52.10"E	1207	07.06.2022
98	Şirvan: 300-400 m after crossroads of Sit village	38°05'58.45"N 42°03'25.50"E	1248	07.06.2022
99	Şirvan: exit of Karaca village, Northwestern part, road of Çeltikyolu village	38°07'36.59"N 42°01'18.72"E	989	07.06.202
100	Şirvan: road of Suludere village	38°08'05.26"N 42°05'43.44"E	1333	07.06.2022
101	Şirvan: Gözlüce village, roadside	38°10'12.34"N 42°05'50.58"E	1297	07.06.2022
102	Şirvan: road of Cevizlik village	38°10'21.71"N 42°13'26.16"E	1535	07.06.2022
103	Şirvan: road of Elmadalı village, southern part	38°10'14.92"N 42°10'00.33"E	1773	07.06.2022
104	Şirvan: after the crossroad of Karaca village, towards the road of Çeltikyolu village	38°07'57.89"N 42°04'24.73"E	428	07.06.2022
105	Şirvan: South of Nallıkaya village	38°10'15.28"N 42°08'54.32"E	1622	07.06.2022
106	Şirvan: after Nallıkaya village, roadside	38°10'01.06"N 42°09'52.50"E	182	07.06.2022
107	Şirvan: exit of Kesmetaş village, opposite of Kayahisar village, South of Doğruyol stream	38°09'41.82"N 42°13'44.17"E	1425	07.06.2022
108	Şirvan: northwest of Oya village	38°09'40.74"N 42°14'04.20"E	1491	07.06.2022
109	Şirvan: West of Soğanlı village	38°03'22.90"N 42°07'47.43"E	1426	07.06.2022
110	Şirvan: exit of Kirazlı village, eastern part	38°04'46.16"N 42°10'40.76"E	1242	07.06.2022
111	Şirvan: exit of Akgeçit kvillage, eastern part	38°04'00.18"N 42°12'47.62"E	1176	07.06.2022
112	Şirvan: Çınarlı viiage, northwest part	38°03'48.93"N 42°14'03.17"E	1153	07.06.2022

No	Localities	Coordinates	Altitudes (m)	Date
113	Şirvan: Adıgüzel village, southeast, roadside	38°01'43.86"N 42°16'08.03"E	1432	07.06.2022
114	Şirvan: Yedikapı village, western part	38°00'54.47"N 42°16'34.10"E	1485	07.06.2022
115	Şirvan: Doğruca village, western part	38°04'03.84"N 42°16'02.93"E	1231	07.06.2022
116	Şirvan: Ormanlı village, southern part	38°11'51.40"N 42°07'07.08"E	1513	22.09.2022
117	Şirvan: 500 m after Şirvan-Pervari crossroads, roadside	38°02'12.23"N 42°02'40.45"E	802	08.06.2022
118	Şirvan: Derinçay village, on the road	38°01'59.58"N 42°06'07.56"E	994	08.06.2022
119	Şirvan: Taşlı village	37°59'20.75"N 42°08'58.22"E	919	08.06.2022
120	Şirvan: Durankaya village, roadside	37°58'08.59"N 42°10'12.10"E	1063	08.06.2022
121	Şirvan: Kapılı village	37°57'54.84"N 42°11'43.51"E	894	08.06.2022
122	Şirvan: Pirinç village, roadside	37°57'32.95"N 42°10'28.31"E	832	08.06.2022
123	Şirvan: İncekaya village	38°01'33.71"N 42°08'00.41"E	1190	08.06.2022
124	Şirvan: Tatlıpayam village, southern part	38°01'01.88"N 42°09'06.64"E	1377	08.06.2022
125	Şirvan: Taşyaka village, eastern part	38°00'39.11"N 42°10'49.54"E	1478	08.06.2022
126	Şirvan: surrounding of Özpınar village	38°00'13.63"N 42°13'44.53"E	1494	08.06.2022
127	Şirvan: İkizler village 1	38°02'16.47"N 41°56'16.12"E	790	09.06.2022
128	Şirvan: İkizler village 2	38°03'34.45"N 41°54'52.79"E	1004	09.06.2022
129	Şirvan: İkizler village 3	38°04'09.63"N 41°55'33.32"E	997	09.06.2022
130	Şirvan: Ayrıanlı village	38°05'17.52"N 41°56'36.31"E	1061	09.06.2022
131	Şirvan: Boylu village	38°05'40.55"N 41°56'39.79"E	1020	09.06.2022
132	Şirvan: Boylu village, southeastern part	38°06'10.38"N 41°57'41.93"E 38°06'10.38"N 41°57'41.93"E, 38°06'25.04"N 41°57'37.39"E	712 733	09.06.2022
133	Şirvan: Kömürlü village, southeastern part	38°08'04.16"N 41°56'59.17"E	1063	09.06.2022
134	Şirvan: Kömürlü-Bayındır crossroads, West of Bayındır village	38°07'18.97"N 41°57'36.76"E	969	09.06.2022
135	Baykan: 500-600 m towards Baykan town from Ziyaret town (east), roadside	30°07'56.17"N 41°44'19.16"E	673	21.06.2022
136	Baykan: 200 m towards Baykan town from Ziyaret town	38°07'56.23"N 41°44'10.40"E	672	21.06.2022
137	Baykan: exit of Tütenocak village, eastern part	38°06'08.08"N 41°41'05.18"E	977	21.06.2022
138	Baykan: North of Çelikli village, Çelikli-Atabağı crossroads	38°05'44.13"N 41°39'29.65"E	1059	21.06.2022
139	Baykan: 700 m to Atabağı village, eastern part	38°04'00.86"N 41°38'33.89"E	977	21.06.2022

No	Localities	Coordinates	Altitudes (m)	Date
140	Baykan: northeast of Sarısalkım village	38°06'52.97"N 41°38'16.15"E	1173	21.06.2022
141	Baykan: on the road of Bardaklı village, notheastern part, on the side of Bitlis stream	38°05'04.77"N 41°45'58.05"E	617	21.06.2022
142	Baykan: North of Bardaklı village, Gündoğdu village crossroad, south of Bitlis stream	38°06'00.08"N 41°46'02.09"E	644	21.06.2022
143	Baykan: exit of Gündoğdu village, southeastern part	38°05'20.21"N 41°48'11.17"E	849	21.06.2022
144	Baykan: 1 km to Dilektepe village, western part	38°04'51.22"N 41°48'58.46"E	1077	21.06.2022
145	Baykan: on the road of Engin village, Southern part	38°03'54.92"N 41°47'18.65"E	680	21.06.2022
146	Baykan: Dokuzçavuş village, nothwestern part	38°04'39.44"N 41°50'17.06"E	1289	21.06.2022
147	Baykan: west of Narlıyurt village	38°04'50.35"N 41°52'34.45"E	1179	21.06.2022
148	Baykan: on the road of Ulaştı village, northern part	38°09'03.38"N 41°47'40.99"E	1031	22.06.2022
149	Baykan: exit of Ulaştı village, northwestern part	38°07'08.72"N 41°48'06.22"E	962	22.06.2022
150	Baykan: İkişler village, South and southwestern part	38°06'44.33"N 41°49'58.97"E, 38°06'41.16"N 41°49'45.16"E	1124 1014	22.06.2022
151	Baykan: on the road of Demirışık village, western part	38°11'33.74"N 41°49'25.35"E	797	22.06.2022
152	Baykan: Yarımca village, southeastern part	38°11'00.02"N 41°52'25.35"E	1151	22.06.2022
153	Baykan: 1.5-2 km to Kasımlı village, Northwestern part	38°09'28.15"N 41°53'49.46"E	1398	22.06.2022
154	Baykan: on the road of Adakale village, Toptepe village, northeastern part	38°08'24.15"N 41°53'06.67"E	1221	22.06.2022
155	Baykan: exit of Adakale village, Northwestern part	38°08'08.52"N 41°51'50.24"E	1168	22.06.2022
156	Baykan: Obalı village, eastern part and surroundings	38°09'41.57"N 41°48'53.23"E	742	22.06.2022
157	Baykan: Ünlüce village, Northwestern and surroundings	38°07'14.92"N 41°50'56.52"E	111	22.06.2022
158	Baykan: Günbuldu village, southeastern part and surroundings	38°12'01.63"N 41°47'36.90"E	938	22.06.2022
159	Baykan: on the road of Çamtaşlı village, southern part and surroundings	38°12'12.75"N 41°46'11.58"E	1004	22.06.2022
160	Baykan: North of Ziyaret town, 4 km towards northern part, on the road of Meşelik village	38°09'18.22"N 41°42'04.23"E	729	23.06.2022
161	Baykan: Meşelik-Ardıçdalı villages crosroads	38°11'22.34"N 41°41'53.82"E	898	23.06.2022
162	Baykan: southwest of Ardıçdalı village	38°11'50.27"N 41°42'27.62"E	1021	23.06.2022
163	Baykan: on the road of Meşelik village, southern part	38°12'26.79"N 41°41'39.98"E	1030	23.06.2022
164	Baykan: on the road of Çukurca village, southern part	38°13'16.28"N 41°38'39.38"E 38°12'55.07"N 41°38'37.83"E	1004, 1037	23.06.2022
165	Baykan: Ormanpınar village and surroundings	38°11'22.22"N 41°44'13.19"E	980	23.06.2022
166	Baykan: North of Gümüşkaş village and surroundings	38°09'12.58"N 41°40'32.58"E	988	23.06.2022
167	Baykan: east of Dedebakırı village	38°07'12.35"N 41°40'01.07"E	796	23.06.2022

No	Localities	Coordinates	Altitudes (m)	Date
168	Kurtalan: entrance of Kayabağlar village, southeastern part	37°58'56.31"N 41°42'19.68"E	805	01.07.2022
169	Kurtalan: northeast of Yellice village	38°04'30.10"N 41°35'56.91"E	1034	01.07.2022
170	Kurtalan: northeast of Beşler village	38°03'34.23"N 41°37'21.90"E	958	01.07.2022
171	Kurtalan: 1.5 km to Ballıkaya crossroad, South of Aksöğüt village	38°01'49.28"N 41°35'04.04"E	894	01.07.2022
172	Kurtalan: east of Yanarsu village	38°02'14.90"N 41°33'49.35"E	882	01.07.2022
173	Kurtalan: Ballıkaya-Yanarsu villages crossroads	38°01'58.54"N 41°34'32.51"E	893	01.07.2022
174	Kurtalan: southeast of Aksöğüt village, and surroundings	38°02'29.92"N 41°35'27.03"E	816	01.07.2022
175	Kurtalan: east of Akçageçit village	38°02'50.32"N 41°33'51.46"E	738	01.07.2022
176	Kurtalan: southwest of Uluköy	38°00'50.54"N 41°37'00.98"E	945	01.07.2022
177	Kurtalan: South of Kapıkaya village	38°01'04.24"N 41°36'27.25"E	854	01.07.2022
178	Kurtalan: on the road of Ballıkaya village, northern part	38°01'29.87"N 41°34'35.25"E	831	01.07.2022
179	Kurtalan: north of Kaynaklı village	37°56'49.60"N 41°35'32.75"E	724	01.07.2022
180	Kurtalan: northwest of Kaynaklı village	37°56'18.71"N 41°35'29.32"E	737	01.07.2022
181	Kurtalan: southwest of Karabağ village,	38°02'08.67"N 41°42'13.78"E	908	01.07.2022
182	Kurtalan: southwest of Tosunbağı village	38°01'21.30"N 41°41'24.80"E	816	01.07.2022
183	Kurtalan: north of Bölüktepe village	38°01'59.15"N 41°40'07.27"E	907	01.07.2022
184	Kurtalan: Tütün village, western part and surroundings	37°59'51.36"N 41°44'55.61"E	623	01.07.2022
185	Kurtalan: Oyacık village, southern part and surroundings	37°56'47.60"N 41°44'31.31"E	883	01.07.2022
186	Kurtalan: Akçalı village, southeastern part and surroundings	37°56'07.20"N 41°45'54.42"E	926	01.07.2022
187	Kurtalan: northwestern of Konakpınar village	37°56'45.45"N 41°35'49.89"E	737	02.07.2022
188	Kurtalan: northeastern of Saipbeyli village	38°00'02.74"N 41°30'40.36"E	623	02.07.2022
189	Kurtalan: Azıklı village, eastern part and surroundings	37°58'29.19"N 41°34'26.75"E	711	02.07.2022
190	Kurtalan: northeastern of Demirkuyu village	37°57'48.21"N 41°31'15.67"E	653	02.07.2022
191	Kurtalan: entrance of Gözpınar village, northeastern part	37°59'12.19"N 41°28'26.30"E	674	02.07.2022
192	Kurtalan: northeast of Akdam village	37°58'30.93"N 41°26'33.21"E	658	02.07.2022
193	Kurtalan: West of Bozhöyük village	37°58'41.74"N 41°23'04.56"E	552	02.07.2022
194	Kurtalan: Yakittepe village, northeastern part	37°54'23.27"N 41°30'53.38"E	813	02.07.2022
195	Kurtalan: North of Yakittepe village	37°53'43.16"N 41°29'30.86"E	847	02.07.2022
196	Kurtalan: southeast of Avcılar village	37°54'54.13"N 41°25'51.41"E	800	02.07.2022

No	Localities	Coordinates	Altitudes (m)	Date
197	Kurtalan: North of Toytepe village	37°56'54.93"N 41°28'58.57"E	692	02.07.2022
198	Kurtalan: Çalıldüzü Village	37°56'02.73"N 41°27'42.36"E	746	02.07.2022
199	Kurtalan: east of Erdurağı village	37°53'52.97"N 41°35'46.03"E	951	02.07.2022
200	Kurtalan: Beykent road, northern part, 3-4 km to Beykent from Kurtalan, nothwest of Ağaçalıpınar village	37°53'55.90"N 41°41'38.33"E	910	03.07.2022
201	Kurtalan: South of Beykent village	37°52'09"N 41°40'43.22"E	4135	03.07.2022
202	Kurtalan: southwest of Beykent village	37°51'59.46"N 41°39'37.33"E	1487	03.07.2022
203	Kurtalan: 3-4 km to Üçpınar village, southwestern part	37°50'34.36"N 41°41'59.35"E	1158	03.07.2022
204	Kurtalan: southeast of Yeniköprü village	37°54'14.68"N 41°44'37.94"E	686	03.07.2022
205	Kurtalan: southwest of Yürekveren village	37°53'45.65"N 41°45'25.27"E	728	03.07.2022
206	Kurtalan: northeast of Bağlıca village	37°52'26.89"N 41°46'19.16"E	693	03.07.2022
207	Kurtalan: northwest of Kayalısü village	37°49'01.48"N 41°43'16.74"E	885	03.07.2022
208	Kurtalan: east of Aydemir village and surroundings	37°48'28.60"N 41°45'28.57"E	676	03.07.2022
209	Aydınlar: 500 m to Çınarlı village, northeast of Çınarlısü village	37°55'31.52"N 42°01'04.80"E	1002	11.08.2022
210	Aydınlar: South of Taşbalta village, 500 m to Taşbalta village	37°58'44.74"N 42°03'20.46"E	1143	11.08.2022
211	Aydınlar: 500 m to Çatılı village, western part	37°58'00.22"N 42°01'49.37"E	1396	11.08.2022
212	Aydınlar: southwest of Dereyamaç village	37°57'56.33"N 41°59'47.23"E	1139	11.08.2022
213	Aydınlar: southeast of İkizbağlar village	37°57'49.76"N 41°59'01.18"E	1041	11.08.2022
214	Aydınlar: northwest of Akyayla village	37°55'27.99"N 42°07'53.24"E	1262	13.09.2022

## Results and discussion

As a result of the examination of lichens and lichenicolous fungi from 214 locations, 334 lichens, seven of which lichenicolous, and 27 lichenicolous fungi were identified, representing 135 genera of *Ascomycota*. *Thelidium pyrenophorum* was new to Turkey. Two hundred and ninety-three lichens, seven lichenicolous lichens and 26 lichenicolous fungi were new records for the Siir Province. Furthermore, *Anema decipiens*, *Lecanora stenotropa*, *Peccania tiruncula*, *Sarcogyne arenosa*, and *Verrucaria bryoctona* were found for the second time in Turkey. (Güvenç & al. 2020; John & Türk 2017; John & al. 2020; John & Güvenç 2023; Yazıcı & Aslan 2022b, 2023; Yazıcı & al. 2023). The taxa have been listed alphabetically. Indications: (") a new record for Turkey; (\*) second record for Turkey; (φ) published earlier; (#) a new record for Batman; (+) lichenicolous fungus, (D) lichenicolous lichen.

## List of species

#*Acarospora bullata* Anzi – loc, 76: on calcareous rocks.

#*Acarospora cervina* A. Massal. – loc. 1–2, 4–9, 13–16, 18–19, 21– 24, 26, 27, 29–42, 45, 48–49, 51–78, 80–86, 88, 91–95, 98–102, 104–108, 110, 112, 114–151–155, 160–164, 167–180, 185–188, 190–192, 194–197, 199–213: on calcareous rocks.

#*Acarospora fuscata* (Schr.) Arnold – loc. 4, 9, 16, 17, 25, 29, 33, 35, 36, 38, 39, 41, 45, 49, 51–53, 58, 60–62, 65, 66, 67, 70, 71, 76–78, 80–83, 95, 101, 106, 109, 117, 123, 124, 127, 130, 137, 139, 142–144, 151, 163, 164, 169, 170, 173, 187, 191, 204: on siliceous rocks.

#*Acarospora glaucocarpa* (Ach.) Arnold – loc, 35, 81, 147: on siliceous rocks.

#*Acarospora laqueata* (Stizenb.) Stizenb. ex Flagey – loc. 4, 5, 13, 15, 29, 31, 32, 38, 47, 53, 59, 69, 75, 76, 83, 84,

101, 119, 110, 112, 115, 122, 131, 133, 135, 141–143, 149, 161, 163, 168, 169, 171–173, 177, 179, 184, 190, 210: on calcareous rocks.

#*Acarospora macrospora* A. Massal. ex Bagl. – loc. 40, 151: on siliceous rocks.

#*Acarospora nitrophila* H. Magn. – loc 170: on siliceous rock.

#*Acarospora privigna* (Ach.) A. Schneid. – loc. 9, 21, 48, 50, 68, 80, 87, 89, 91, 107, 109, 112, 113, 115, 133, 144, 149, 153, 184, 186, 187, 206: on siliceous rocks.

#*Acarospora pseudofuscata* Sipman – loc. 82, 153, 213: on siliceous rocks.

#*Acarospora strigata* (Nyl.) Jatta – loc. 7, 86, 117, 124, 127: on calcareous rocks.

#*Acarospora umbilicata* Bagl. – loc. 34: on siliceous rock.

#*Acarospora veronensis* A. Massal. – loc. 138, 191: on siliceous rocks.

#*Acarospora versicolor* Bagl. & Carestia – loc. 85: on siliceous rock.

#*Agonimia tristicula* (Nyl.) Zahlbr. – loc. 2, 15, 29, 33, 35, 45, 51–3, 58–61, 63–65, 67, 69, 72, 81, 84, 85, 87, 89, 100, 101, 105, 107–109, 114, 119, 124–126, 135, 149, 150, 152, 153, 160, 162, 164, 168, 169, 176, 185, 194, 195, 202, 205, 206, 208: on mosses.

♠*Anema decipiens* (A. Massal.) Forssell – loc. 164: on calcareous rock. Previously found in Siirt (Yazıcı & Aslan 2022b).

#+*Apiosporella caudata* (Kernst.) Keissl. – loc. 17: on *Calogaya* cf. *saxicola*.

#+*Arthonia clemens* (Tul.) Th. Fr. – loc. 40: on *Rhizoplaca melanophthalma*.

#+*Arthonia protoparmeliopsis* Etayo & Diederich – loc. 202: on *Protoparmeliopsis muralis*.

#+*Arthonia varians* (Davies) Nyl. – loc. 105, 106: on *Glaucomaria rupicola*.

#*Aspicilia albosparsa* (Werner) S.Y. Kondr. – loc. 76, 87, 110, 118, 148, 149: on siliceous rocks.

#*Aspicilia candida* (Anzi) Hue – loc. 33: on calcareous rock.

#*Aspicilia cinerea* (L.) Körb. – loc. 4, 6, 9, 10, 21, 41, 48, 53, 54, 56, 61–64, 69, 70, 72, 76, 88, 90, 92, 93, 95, 100, 101, 109, 112, 115–119, 124, 127, 132, 133, 139, 142, 144, 147, 151, 153–156, 161, 164, 165, 170, 175, 184, 185, 203: on siliceous rocks.

#*Aspicilia desertorum* (Kremp.) Mereschk. – loc. 9, 13, 17, 62, 118, 143, 154, 169, 191: on siliceous rocks.

#*Aspicilia glomerulans* Motyka – loc. 51: on calcareous rock.

#*Aspicilia polychroma* Anzi – loc. 33, 35, 39, 45, 48, 50, 52, 53, 57, 59, 61–64, 67, 68, 70, 71, 76, 82, 85–87, 89–91, 93, 99, 100, 101, 103, 105, 107, 108, 112, 115, 116, 125, 126, 132, 142, 143, 147, 148–152, 156, 162, 175, 184, 186, 196, 207: on calcareous rocks.

♠*Aspicilia subfarinosa* (J. Steiner) Şenkard. & Sohrabi – loc. 42, 75, 125, 195, 206: on calcareous rocks (Şenkardesler & Sohrabi 2011).

#*Aspicilia viridescens* (A. Massal.) Hue – loc. 68: on siliceous rock.

#*Aspiciliella cupreoglauca* (B. de Lesd.) Zakeri, Divakar & Otte – loc. 5, 9, 21, 25, 27, 35, 36, 44, 48, 50, 62–64, 67, 71, 72, 75, 76, 79, 87–89, 91, 92, 95, 100, 101, 103, 105, 106, 108, 112, 114, 115, 117, 118, 123, 134, 142, 143, 148–151, 165, 175, 176, 186, 189, 191, 192, 196: on siliceous rocks.

#*Aspiciliella intermutans* (Nyl.) M. Choisy – loc. 144: on siliceous rock.

#*Athallia inconnexa* (Nyl.) S.Y. Kondr. & L. Lökös – loc. 14, 32, 40, 48, 49, 51, 71, 81, 96, 99, 105, 115, 124, 126, 133, 137, 141, 152, 160, 163, 170, 177, 196, 202, 203, 205, 212: on calcareous rocks.

♠*Athallia holocarpa* (Hoffm.) Arup, Frödén & Søchting – loc. 150: on *Quercus* sp. (Yazıcı & al. 2010a).

#*Athallia pyracea* (Ach.) Arup, Frödén & Søchting – loc.

15, 68, 51, 53, 65, 85, 106, 150, 162, 164, 202: on *Quercus* sp.  
♠*Bagliettoa baldensis* (A. Massal.) Vězda – loc. 1, 2, 6, 7, 14–16, 17, 18, 19, 27, 29, 31, 32, 35, 39, 42–44, 50, 52, 55, 57, 79, 82, 90, 119, 120, 140, 142, 143, 168, 200, 203, 212, 213: on calcareous rocks (Yazıcı & al. 2010a).

♠*Bagliettoa calciseda* (DC.) Gueidan & Cl. Roux – loc. 1, 6–8, 14, 15, 19, 22, 23, 27–29, 30, 32, 34, 36, 41–44, 46, 48, 50, 53, 55–57, 59, 80–83, 85–89, 91, 93, 100, 101, 106, 109, 110, 114, 115, 119, 122, 133, 134, 140, 143, 147, 156–159, 165–168, 175, 176, 185–187, 189, 191, 192, 199–202, 206–209, 211, 213: on calcareous rocks (Yazıcı & al. 2010a).

#*Bagliettoa cazzae* (Zahlbr.) Vězda & Poelt – loc. 15, 25, 48, 53, 55, 61, 75, 90, 92, 99, 110, 115, 116, 132, 138, 143, 144, 147, 149, 150, 152–154, 164, 169, 173, 184, 185, 190, 206, 208: on calcareous rocks.

#*Bagliettoa marmorea* (Scop.) Gueidan & Cl. Roux – loc. 15, 35, 55, 69, 82, 123, 138, 142–144, 150, 154, 164, 194, 203, 206, 213: on calcareous rocks.

#*Bagliettoa parmigera* (J. Steiner) Vězda & Poelt – loc. 6, 15, 19, 31, 35, 54, 83, 120, 122, 143, 190, 196, 199, 203, 209, 213: on calcareous rocks.

#*Bagliettoa parmigerella* (Zahlbr.) Vězda & Poelt – loc. 173, 190, 203: on calcareous rock.

#*Bellemerea cupreoatra* (Nyl.) Clauzade & Cl. Roux – loc. 68, 143: on siliceous rocks.

♠*Blastenia crenularia* (With.) Arup, Søchting & Frödén. – Not found in this study (Yazıcı & al. 2010a).

#*Blastenia ferruginea* (Huds.) A. Massal. – loc. 106: on *Quercus* sp.

#*Blennothallia crista* (Huds.) Otálora, P.M. Jørg. & Wedin – loc. 2, 4, 5, 7, 17, 18, 19, 22, 27, 31, 33, 34, 35, 40, 51–54, 56, 58, 59, 65, 66, 70, 72, 76, 82, 85, 89, 99, 101, 103, 104, 108, 112, 114, 119, 120, 125, 126, 129, 130, 138, 139, 140, 142, 143, 149, 150, 154, 155, 157, 162, 164, 169, 170, 177, 184, 191, 194, 196, 199, 201, 202, 204, 206, 209: on calcareous rocks.

#+*Bryostigma epiphyscium* (Nyl.) S.Y. Kondr. & Hur – loc. 106: on *Physcia dubia*.

#*Bryostigma lapidicola* (Taylor) S.Y. Kondr. & Hur – loc. 56, 61, 82, 87, 91, 105, 106: on calcareous rocks.

#+*Bryostigma phaeophysciae* (Grube & Matzer) S.Y. Kondr. & Hur – loc. 193: on *Phaeophyscia orbicularis*.

#*Buellia aethalea* (Ach.) Th. Fr. – loc. 177: on siliceous rock.

- #*Buellia dispersa* A. Massal. – loc. 10, 81: on siliceous rocks.
- #*Buellia ocellata* (Flot.) Körb. – loc. 210: on siliceous rock.
- #*Buellia stellulata* (Taylor) Mudd – loc. 35: on siliceous rocks.
- #*Caeruleum heppii* (Arnold) K. Knudsen & Arcadia – loc. 79: on calcareous rock.
- #*Calogaya biatorina* (A. Massal.) Arup, Frödén & Søchting – loc. 4, 5, 7, 25, 40, 63, 71, 87, 94, 85, 99, 106, 108, 123, 126, 146, 161, 177, 209, 210: on siliceous rocks.
- #*Calogaya decipiens* (Arnold) Arup, Frödén & Søchting – loc. 1, 2, 7, 8, 10, 17, 71, 93, 100, 112, 115, 134, 165, 194–196, 198, 209: on calcareous rocks.
- #*Calogaya pusilla* (A. Massal.) Arup, Frödén & Søchting – loc. – loc. 1, 4, 7, 35, 40, 60, 71, 80, 84, 105, 108, 169, 173: on calcareous rocks.
- #*Calogaya saxicola* (Hoffm.) Vondrák – loc. 1, 4, 7, 8, 15, 18, 22, 29, 31–36, 40, 43, 44, 48–, 49, 50, 53, 56, 59–, 60, 61, 62, 63, 64, 70, 71, 73–76, 80, 82, 84–88, 91, 92, 101, 105, 106, 108, 109, 112–116, 122, 123, 127, 130, 131, 133, 141, 145, 147, 151, 153, 156, 161, 164, 165, 169, 173, 177, 179, 180, 185–187, 196, 209, 210: on calcareous rocks.
- #*Calogaya schistidii* (Anzi) Arup, Frödén & Søchting – loc. 60, 87, 99, 104, 175, 202, 203: on mosses.
- ♂*Caloplaca cerina* (Hedw.) Th. Fr. – loc. 27, 31, 32, 34, 50, 59, 60, 62–65, 68, 83, 87, 95, 110, 115, 143, 144, 148–150, 154, 165, 202, 203: on *Quercus* sp. (Yazıcı & al. 2010a).
- #*Caloplaca chlorina* (Flot.) Sandst. – loc. 188: on siliceous rock.
- #*Caloplaca conglomerata* (Bagl.) Jatta – loc. 143, 151: on siliceous rocks.
- #*Caloplaca pellodella* (Nyl.) Hasse – loc. 15, 84, 141, 143, 151, 155: on siliceous rocks.
- #*Candelariella antennaria* Räsänen – loc. 2, 3, 5, 6, 13–15, 20, 25, 27, 31–34, 41, 42, 45–48, 52, 59–65, 68, 72, 83, 79, 85–87, 90, 95, 97–101, 103, 107–112, 114–117, 123, 126, 135, 136, 138, 140, 143, 144, 141, 142, 145, 153–156, 158, 159, 162, 165, 167, 190, 191, 193, 195, 201, 202, 209–211, 214: on, *Quercus* sp.; 11, 121: on *Populus* sp.; 12: on *Juglans* sp.; 44, 53, 57, 58, 75, 80, 83, 204: on *Quercus* sp. and *Populus* sp.; 39, 50, 55, 76, 137: on *Quercus* sp. and *Prunus* sp.; 40, 74, 77, 84, 125, 146, 157, 164: on *Quercus* sp. and *Salix* sp.; 43, 67, 73, 78, 81, 102, 113, 118, 139, 147, 151, 152, 188, 205: on *Quercus* sp. and *Juglans* sp.; 170, 175, 189, 192: on *Salix* sp. and *Prunus* sp.; 197: on *Salix* sp. and *Populus* sp.; 49, 54, 56, 200: on *Quercus* sp., *Juglans* sp., and *Prunus* sp.; 35, 71: on *Quercus* sp., *Salix* sp. and *Populus* sp.; 35: on *Quercus* sp., *Prunus* sp. and *Populus* sp.; 70: on *Quercus* sp., *Juglans* sp. and *Populus* sp.; 187, 198: on *Juglans* sp., *Salix* sp. and *Prunus* sp.
- #*Candelariella aurella* (Hoffm.) Zahlbr. – loc. 2, 4, 6–9, 13, 15, 21, 23, 29–36, 38, 40, 46, 47, 49, 51–56, 58–61, 63–67, 70–73, 75, 77, 78, 80–85, 94–96, 99, 104–108, 113, 124–127, 130, 131, 133, 135, 141–144, 139, 141, 148, 149, 152–155, 160–164, 170, 177, 180, 188, 191, 194, 196, 199–205, 209–213: on calcareous rocks.
- #*Candelariella coralliza* (Nyl.) H. Magn. – loc. 13, 188, 196: on siliceous rocks.
- #*Candelariella oleaginescens* Rondon – loc. 40, 148: on calcareous rocks.
- #*Candelariella oleifera* H. Magn. – loc. 5, 141, 209: on calcareous rocks.
- #*Candelariella reflexa* (Nyl.) Lettau – loc. 40, 105: on *Quercus* sp.
- #*Candelariella vitellina* (Hoffm.) Müll. Arg. – loc. 3, 5–10, 14–16, 21–23, 25, 27–36, 40, 44, 48, 50–52, 58, 59, 61–64, 66–72, 75, 76, 80, 82–95, 99–101, 103, 105–110, 112, 114–116, 118, 122–127, 130–135, 142–149, 151–156, 159, 161, 163–166, 169–171, 173–177, 179, 180, 184–191, 194, 196, 197, 199–203, 205, 207, 208, 209, 211–214: on calcareous rocks.
- #*Candelariella xanthostigma* (Ach.) Lettau – loc. 154: on *Quercus* sp.
- #+*Carbonea supersparsa* (Nyl.) Hertel – loc. 106: on *Lecanora polytropa*.
- #+*Carbonea vitellinaria* (Hoffm.) Müll. Arg. – loc. 196: on *Candelariella vitellina*.
- #*Carbonea vorticosa* (Flörke) Hertel – loc. 79, 106, 148, 199: on siliceous rocks.
- #*Catapyrenium daedaleum* (Körb.) Stein – loc. 54: on soil.
- #*Catapyrenium squamulosum* (Ach.) Breuss – loc. 18, 51, 53, 58, 85, 93, 108, 119, 137, 140, 143, 144, 162, 184, 196, 204, 205: on soil.
- #+*Cercidospora epipolytropa* (Mudd) Arnold – loc. 106: on *Lecanora polytropa*.
- #+*Cercidospora macrospora* (Uloth) Hafellner & Nav.-Ros. – loc. 5, 15, 130, 132, 170: on *Protoparmeliopsis muralis*.
- #+*Cercidospora melanophthalmae* Nav.-Ros., Calat. & Hafellner – loc. 93: on *Rhizoplaca melanophthalma*.
- #*Chrysothrix candelaris* (L.) J.R. Laundon – loc. 143: on *Quercus* sp.
- #*Circinaria caesiocinerea* (Nyl. ex Malbr.) A. Nordin, Savić & Tibell – loc. 30, 31, 63, 89, 95, 115, 116, 118, 123, 132, 135, 151, 184, 205: on siliceous rocks.
- ♂*Circinaria calcarea* (L.) A. Nordin, Savić & Tibell – loc. 1–6, 9, 11, 13–16, 18, 19, 21–33, 35–60, 63–66, 68–72, 74–77, 79–84, 86, 87, 89–93, 95, 99–101, 104, 105, 108–110, 112, 114–116, 119, 120, 123–129, 131–134, 137, 141–143, 145–147, 153–155, 157–159, 161–167, 169, 173–175, 177, 179, 180, 184–187, 190, 192, 194–206, 209–214: on calcareous rocks (Yazıcı & al. 2010a).
- #*Circinaria contorta* (Hoffm.) A. Nordin, Savić & Tibell – loc. 4, 7, 9, 10, 13, 15, 19, 31–, 34, 37, 41, 44, 45, 49, 51, 57, 58, 60, 61, 64, 65–72, 75, 79, 81, 84, 85, 87, 89, 91, 94–97, 99, 101, 104, 107, 108, 115, 119, 120, 122, 124–127, 129, 134, 135, 139, 149, 151–, 152, 153, 155, 161, 164, 179, 180, 188, 194–196, 199, 201–206, 210: on calcareous rocks.
- #*Circinaria coronata* (A. Massal.) Wirth, Hauck & M. Schultz ex Paukov & Alverdiyeva – loc. 4, 13, 21, 22, 25, 27, 29, 31, 33, 34, 37, 40, 45, 49, 67–80, 83, 86–88, 91, 92, 96, 99, 106, 110, 112, 114–116, 131–133, 138, 142, 145, 150, 154, 160, 164–166, 167, 169, 173, 176, 186, 187, 196, 202, 205, 207, 208, 210, 213: on calcareous rocks.

- #*Circinaria hoffmanniana* (S. Ekman & Fröberg ex R. Sant.) A. Nordin – loc. 2, 6, 7, 9–11, 15–17, 23, 27, 29, 32–35, 38, 40, 42, 47, 60, 61, 65, 69, 71, 72, 75–79, 90, 105, 119, 120, 123, 124, 126, 127, 129, 131–133, 135, 138, 141, 144, 149, 150, 152, 161, 164, 168, 170, 173, 177, 181, 182, 188, 191, 192, 194, 199, 200, 203, 205, 210, 211: on calcareous rocks.
- ϕ*Circinaria rostamii* Sohrabi. – Not found in this study (Sohrabi & al. 2013).
- ϕ*Circinaria scabridula* (H. Magn.) Sohrabi – loc. 8, 9, 11, 15, 19, 24, 36, 38, 40, 44, 53, 56, 58–64, 66–75, 79, 82, 84, 86–88, 93, 95, 98–100, 104, 105, 107, 108, 113, 115, 117, 119–122, 124, 125, 127, 130–133, 135, 137, 138, 143, 144, 148–150, 153–155, 159, 162–164, 167, 169, 170, 172, 187, 194, 202, 210, 211, 213: on calcareous rocks ( Yazıcı & al. 2023).
- #*Clauzadea immersa* (Hoffm.) Hafellner & Bellem. – loc. 61, 211: on calcareous rocks.
- #*Clauzadea metzleri* (Körb.) Clauzade & Cl. Roux ex D. Hawksw. – loc. 51: on calcareous rock.
- #*Clavascidium lacinulatum* (Ach.) M. Prieto – loc. 200: on soil.
- #*Collema flaccidum* (Ach.) Ach. – loc. 144: on siliceous rock.
- #*Collema furfuraceum* (Schaer.) Du Rietz – loc. 152: on *Quercus* sp.
- #*Collema subflaccidum* Degel. – loc. 82: on *Quercus* sp.
- #*Dermatocarpon intestiniforme* (Körb.) Hasse – loc. 95: on calcareous rock.
- #*Dermatocarpon miniatum* (L.) W. Mann – loc. 4, 16, 31, 34, 40, 51, 76, 83, 99, 101, 105, 108, 114, 116, 119, 122, 123, 138, 141, 150, 151, 154, 162–165, 170, 177, 213: on calcareous rocks.
- #*Dimelaena oreina* (Ach.) Norman – loc. 98: on siliceous rock.
- #*Diploschistes actinostomus* (Ach.) Zahlbr. – loc. 11, 26, 45, 84, 87, 100, 110, 112, 133, 143, 155, 195, 199: on calcareous rocks.
- #*Diploschistes caesioplumbeus* (Nyl.) Vain. – loc. 53: on siliceous rock.
- #*Diploschistes diacapsis* (Ach.) Lumbsch – loc. 164: on soil.
- #*Diploschistes gypsaceus* (Ach.) Zahlbr. – loc. 10, 188: on siliceous rock.
- #*Diploschistes muscorum* (Scop.) R. Sant. – loc. 63, 64, 170: on soil.
- #*Diploschistes scruposus* (Schreb) Norman – loc. 2, 9, 10, 24, 48, 61, 63, 64, 86–88, 92, 100, 101, 108, 109, 112, 114–116, 132–135, 142, 143, 147, 148, 149, 158, 165, 170, 174, 176, 184, 186, 187, 199: on siliceous rocks.
- #*Diplotomma alboatrum* (Hoffm.) Flot. – loc. 49, 64, 68, 115, 200: on calcareous rocks.
- #*Diplotomma epipolium* (Ach.) Arnold – loc. 5–8, 14–17, 25, 30, 32, 33, 35, 38–40, 45, 49, 51, 54, 57, 61, 63–66, 68, 70–73, 75, 78, 81–83, 85, 90, 99, 103–106, 108, 113, 114, 123–127, 130, 133, 134, 137, 139, 153, 159, 161, 163, 164, 169–171, 177, 185, 189, 196, 199–203, 211–213: on calcareous rocks.
- #*Diplotomma venustum* Körb. – loc. 33: on calcareous rock.
- #*Enchylium limosum* (Ach.) Otálora, P.M. Jørg & Wedin – loc. 204: on soil.
- #*Enchylium polycarpon* (Hoffm.) Otálora, P.M. Jørg & Wedin – loc. 7, 14, 33–35, 40, 49, 52, 60, 81, 82, 99, 102, 154, 155, 161, 164, 169, 192, 199, 202: on calcareous rocks.
- #*Enchylium tenax* (Sw.) Gray – loc. 1, 4, 5, 10, 15, 17, 35, 49, 51, 56, 58, 60, 73, 85, 108, 127, 139, 141, 152, 156, 157, 162, 192, 194, 196, 205, 206, 209: on soil.
- #*Endocarpon adscendens* (Anzi) Müll. Arg. – loc. 19, 148, 170: on soil, 104, 196: on mosses.
- #+*Endococcus propinquus* (Körb.) Trevis. – loc. 28, 39, 204: on *Verrucaria nigrescens*.
- #+*Endococcus rugulosus* Nyl. – loc. 6, 106, 138, 142: on *Aspicilia cinerea*.
- #+*Endohyalina insularis* (Arnold) Giralt – loc. 146: on *Glaucosmaria rupicola*.
- #*Farnoldia micropsis* (A. Massal.) Hertel – loc. 150: on calcareous rock.
- #*Flavoplaca citrina* (Hoffm.) Arup, Frödén & Søchting – loc. 161: on calcareous rock.
- #*Flavoplaca coronata* (Kremp. ex Körb.) Arup, Frödén & Søchting – loc. 35, 40, 49, 51, 54, 82, 85, 115, 125, 196, 202, 209: on calcareous rocks.
- #*DFlavoplaca polycarpa* (A. Massal.) Arup, Frödén & Søchting – loc. 40: on *Bagliettoa* cf. *parmigera*.
- #*Glaucosmaria carpinea* (L.) S.Y. Kondr., Lőkös & Farakas – loc. 65: on *Quercus* sp.
- #*Glaucosmaria rupicola* (L.) P.F. Cannon – loc. 86, 87, 105, 106, 146: on siliceous rocks.
- #*Glypholecia scabra* (Pers.) Müll. Arg. – loc. 69, 117, 124: on siliceous rocks.
- #*Gyalidea lecideopsis* (A. Massal.) Lettau ex Vězda – loc. 41, 210: on calcareous rocks.
- #*Gyalolechia flavovirescens* (Wulfen) Søchting, Frödén & Arup – loc. 136: on siliceous rock.
- #*Gyalolechia fulgens* (Sw.) Søchting, Frödén & Arup – loc. 1, 2, 35, 53, 56, 60, 84, 130, 138, 188, 206: on calcareous rocks.
- #*Gyalolechia bracteata* (Hoffm.) A. Massal. – loc. 1, 2, 4, 5, 7, 10–16, 19, 30–33, 35, 38–40, 45, 48, 52–54, 56, 58–60, 63, 64, 83–86, 90, 95, 108, 109, 111, 119, 120, 123, 129, 131, 135, 136–140, 143, 160, 164, 171, 173, 182, 188, 194–196, 199, 204–207: on calcareous rocks.
- #*Gyalolechia subbracteata* (Nyl.) Søchting, Frödén & Arup – loc. 60: on calcareous rocks.
- #*Heteropladidium compactum* (A. Massal.) Gueidan & Cl. Roux – loc. 2, 15, 25, 49, 54, 83, 87, 92, 93, 100, 112, 115, 119, 131, 136, 143, 144, 163, 169, 173, 175, 187, 199, 192, 200, 203, 206, 212, 213: on calcareous rocks.
- #*Heteropladidium fuscum* (Nyl.) Gueidan & Cl. Roux – loc. 203: on calcareous rock.
- #*Immersaria athrocarpa* (Ach.) Rambold & Pietschm. – loc. 23, 27, 48, 50, 58, 59, 63, 64, 67–69, 71, 74, 75, 86, 89–92, 100, 101, 106, 112, 114, 115, 123, 127, 129, 142, 143, 147–149, 151, 160, 165, 175, 176, 184–186: on siliceous rocks.

- #*Immersaria usbekica* (Hertel) M. Barberg, Nav.-Ros. & Cl. Roux – loc. 118, 160: on siliceous rock.
- #*Johnsheardia zwackhiana* (Kremp.) S.Y. Kondr., Kärnefelt & A. Thell – loc. 94: on calcareous rock.
- #*Kudratovia luridata* (Körb.) S.Y. Kondr., Lőkös & Hur – loc. 6–8, 31, 32, 39, 51, 53, 94, 104, 108, 124, 141–143, 168, 172, 173, 177, 195, 196, 200, 205, 206, 212: on calcareous rocks.
- #*Kuettlingeria albolutescens* (Nyl.) I.V. Frolov, Vondrák & Arup – loc. 113, 180, 185: on siliceous rocks.
- #*Kuettlingeria atroflava* (Turner) I.V. Frolov, Vondrák & Arup – loc. 40, 62, 68, 76, 87, 107, 112, 114, 118, 123, 151, 158, 174–177, 184–186, 189: on siliceous rocks.
- #*Kuettlingeria erythrocarpa* (Pers.) I.V. Frolov, Vondrák & Arup – loc. 9, 25, 28, 50, 93, 100, 103, 115, 133, 135, 141, 179, 180, 185, 187: on calcareous rocks.
- #*Kuettlingeria fuscoatroides* (J. Steiner) I.V. Frolov, Vondrák & Arup – loc. 82: on siliceous rock.
- #*Kuettlingeria teicholyta* (Ach.) Trevis. – loc. 2, 5, 7–10, 13, 16, 17, 22, 23, 38, 48, 50, 59, 60, 67, 83, 86–89, 92, 93, 95, 100, 101, 103, 107–110, 114–116, 134, 137–139, 145–47, 156–160, 165–167, 174–176, 181–189, 192, 211: on calcareous rocks.
- #*DLambiella insularis* (Nyl.) T. Sprib. – loc. 87: on *Glaucmaria rupicola*.
- #*Lathagrium auriforme* (With.) Otálora, P.M. Jørg. & Wedin – loc. 7, 36, 51, 52, 59, 60, 63–, 64, 65, 66, 72–, 73, 74, 80, 108, 130, 144, 152, 154, 164, 168, 170, 179, 180, 194, 196, 202, 205: on calcareous rock.
- #*Lathagrium cristatum* (L.) Otálora, P.M. Jørg. & Wedin – loc. 1, 2, 4, 6, 7, 10, 11, 13–19, 25, 27, 28, 32, 33, 35, 39, 40, 42, 43, 45, 49, 51–61, 63–70, 72, 73, 74, 75, 76, 80, 81, 83–86, 88, 89, 91, 94–96, 99, 101–105, 107–108, 109, 112, 115, 117–120, 122, 123, 125, 126, 128–141, 143–145, 147, 150, 152–157, 160–164, 167–171, 173, 174, 177, 178, 183, 187, 188, 191, 192, 194, 196, 199–207, 209, 213: on calcareous rocks.
- #*Lathagrium fuscovirens* (With.) Otálora, P.M. Jørg. & Wedin – loc. 56, 63, 155, 199: on calcareous rocks.
- #*Lathagrium undulatum* (Laurer ex Flot.) Poetsch – loc. 1, 2, 9, 32, 40, 45, 51, 56, 63, 64, 75, 76, 201, 202: on calcareous rocks.
- ♠*Lazarenkoella persica* (J. Steiner) S.Y. Kondr. & Lőkös – loc. 65, 68, 114, 140, 150, 153, 154, 201: on *Quercus* sp. (Yazıcı & al. 2010a).
- #*Lecania erysibe* (Ach.) Mudd – loc. 107: on calcareous rock.
- ♠*Lecania fuscella* (Schaer.) A. Massal. – Not found in this study (Yazıcı & al. 2010a).
- #*Lecania inundata* (Hepp. ex Körb.) M. Mayrhofer – loc. 15, 33, 77, 119, 161, 212: on calcareous rocks.
- #*Lecania spadicea* (Flot.) Zahlbr. – loc. 2, 13–15, 31, 32, 40, 49, 51, 55, 59, 79, 82, 88, 89, 99, 100, 104, 119, 122, 125, 137, 152, 161, 167, 164, 175, 186, 194, 196, 203, 206, 209, 210, 212, 213: on calcareous rocks.
- #*Lecanora chlorotera* Nyl. – loc. 68: on *Quercus* sp.
- #*Lecanora kjachtensis* J. Steiner – loc. 4, 6–9, 13, 17, 28, 29, 35, 42, 45, 54, 56, 60–66, 68–72, 78–, 79, 80, 83, 118–120, 124, 126, 127, 129–132, 137, 138, 141–144, 152–155, 161, 162, 164, 169, 177, 191, 192, 194, 200, 206, 213: on calcareous rocks.
- #*Lecanora pannonica* Szatala – loc. 74: on siliceous rock.
- #*Lecanora polytropa* (Hoffm.) Rabenh. – loc. 106: on siliceous rock.
- ♠*Lecanora stenotropa* Nyl. – loc. 164: on siliceous rock. Previously found in Siirt (Yazıcı & Aslan 2022b).
- #*Lecidea atrobrunnea* (DC.) Schaer. – loc. 86, 87, 91, 93, 100, 103, 106, 110, 185: on siliceous rocks.
- #*Lecidea auriculata* Th. Fr. – loc. 106: on siliceous rock.
- #*Lecidea fuscoatra* (L.) Ach. – loc. 10, 25, 27, 44, 63, 64, 67, 85, 86, 92, 105, 106, 108, 110, 112, 113, 117, 118, 127, 128, 135, 142, 143, 151, 165, 188: on siliceous rocks.
- #*Lecidea lactea* Flörke ex Schaer. – loc. 186: on siliceous rock.
- #*Lecidea lapicida* (Ach.) Ach. – loc. 106: on siliceous rock.
- #*Lecidea plana* (J. Lahm. ex Körb.) Nyl. – loc. 71, 106: on siliceous rock.
- #*Lecidea sarcogynoides* Körb. – loc. 91, 21, 103, 105, 106, 145: on siliceous rocks.
- #*Lecidea tessellata* Flörke – loc. 61, 63, 64, 70, 71, 99, 104: on siliceous rocks.
- #*Lecidella carpathica* Körb. – loc. 21, 23, 25, 35, 61, 63, 64, 70, 72–74, 79, 85, 92, 101, 103, 105, 106, 108, 125, 135, 142, 144, 148, 149, 151, 153, 159, 161, 162, 175, 199: on siliceous rocks.
- #*Lecidella elaeochroma* (Ach.) M. Choisy – loc. 65, 100, 112: on *Quercus* sp.
- #*Lecidella stigmatea* (Ach.) Hertel & Leuckert – loc. 1, 2, 27, 30, 31, 50, 51, 59–61, 67, 72, 82, 86–93, 100–102, 105–107, 109, 110, 112, 114–116, 133, 134, 139, 145–147, 157–159, 165, 166, 174–176, 184–187, 189, 214: on calcareous rocks.
- #*Lempholemma polyanthes* (Schrad.) Malme – loc. 59, 60, 68, 74, 81, 94, 96, 99, 108, 131, 132, 143, 152, 154, 155, 164, 168, 194, 206: on mosses.
- #*Lepra excludens* (Nyl.) Hafellner – loc. 63, 64, 107, 108, 132, 148, 149: on siliceous rocks.
- #*Lepraria incana* (L.) Ach. – loc. 60, 107, 137, 167: on siliceous rocks.
- #*Lepraria membranacea* (Dicks.) Vain. – loc. 2, 40, 45, 51, 60: on mosses.
- #*Lepraria nivalis* J.R. Laundon – loc. 63, 107: on siliceous rocks.
- #*Lepraria vouauxii* (Hue) R.C. Harris – loc. 2, 45, 47, 51, 60, 61, 63–65, 103, 108, 160: on calcareous rocks; 68, 107, 152, 206: on *Quercus* sp.
- #*Leproplaca chrysodeta* (Vain.) J.R. Laundon ex Ahti – loc. 2: on calcareous rock.
- #*Leproplaca xantholyta* (Nyl.) Nyl. – loc. 2, 32, 63, 64: on calcareous rocks.
- #*Leptochidium albociliatum* (Desm.) M. Choisy – loc. 60: on mosses.
- #*Leptogium cyanescens* (Ach.) Körb. – loc. 82: on *Quercus* sp.

- #+*Lichenostigma elongatum* Nav.-Ros. & Hafellner – loc. 147: on *Aspicilia cinerea*.
- #+*Lichenostigma radicans* Calat. & Barreno – loc. 161: on *Aspicilia* sp.
- #+*Lichenostigma rouxii* Nav.-Ros., Calat. & Hafellner – loc. 143, 194: on *Squamarina cartilaginea*.
- #+*Lichenostigma subradicans* Hafellner, Calat. & Nav.-Ros. – loc. 129: on *Acarospora* sp.
- #+*Lichenostigma triseptatum* Halıcı & D. Hawksw. – loc. 63, 132: on *Circinaria scabridula*.
- #*Lichinella algerica* (J. Steiner) P.P. Moreno & Egea – loc. 105: on siliceous rock.
- #*Lichinella myriospora* (Zahlbr.) P.P. Moreno & Egea ex M. Schultz – loc. 104: on siliceous rock.
- #*Lichinella stipatula* Nyl. – loc. 13, 151, 161: on siliceous rocks.
- #*Lobothallia alphoplaca* (Wahlenb.) Hafellner – loc. 35, 62, 107, 194: on siliceous rocks.
- ϕ*Lobothallia cheresina* (Müll. Arg.) A. Nordin, Cl. Roux & Sohrabi – loc. 2, 29–35, 39, 40, 45, 49, 51–53, 55–59, 61, 68, 70–72, 74, 90, 99, 104, 108, 126, 153, 188, 194, 196, 202, 203: on calcareous rocks (Yazıcı & al. 2010a).
- #*Lobothallia farinosa* (Flörke) A. Nordin, Savić & Tibell – loc. 74, 213: on calcareous rocks.
- #*Lobothallia praeradiosa* (Nyl.) Hafellner – loc. 62: on siliceous rock.
- #*Lobothallia radiosa* (Hoffm.) Hafellner – loc. 1, 2, 4–11, 13–17, 19, 21–, 22, 23, 26, 27, 30–, 31, 32, 33, 34, 35, 39, 40, 45, 48, 51, 53, 54, 60–62, 66, 70–72, 74–79, 81–84, 86–89, 91, 93, 95–, 96, 97, 99, 101, 103, 104, 107–109, 111, 112, 114–119, 122, 123, 125, 126–136, 138, 139, 142, 143, 145–155, 161, 163–165, 169, 170, 176, 177, 179, 180, 182–184, 186, 187, 192, 194–, 196, 199, 200, 202–206, 208: on siliceous rocks.
- #*Lobothallia recedens* (Taylor) A. Nordin, Savić & Tibell – loc. 99, 104, 205: on siliceous rocks.
- #*Megaspora rimisorediata* Valadb. & A. Nordin – loc. 60, 62–65, 72, 73, 83, 94, 96, 148, 150, 152: on *Quercus* sp.
- #*Megaspora verrucosa* (Ach.) Arcadia & A. Nordin – loc. 60: on mosses; 62: on *Quercus* sp.; 32, 63, 64, 115, 152: on soil.
- #*Melanelixia glabra* (Schaer.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – loc. 32: on *Quercus* sp.
- #*Melanohalea infumata* (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – loc. 32, 118: on *Quercus* sp.; 63, 64, 82: on siliceous rocks.
- #*Miriquidica deusta* (Stenh.) Hertel & Rambold – loc. 107: on siliceous rock.
- #*DMonerolechia badia* (Fr.) Kalb – loc. 62, 72, 76, 101, 117: on *Protoparmeliopsis muralis*.
- ϕ+*Muellerella erratica* (A. Massal.) Hafellner & Volk. John – loc. 30, 75, 117: on *Protoparmeliopsis muralis*, 118, 120, 124, 144, 151, 153, 164, 170, 177: on *Circinaria* sp. (Yazıcı & al. 2010a).
- #+*Muellerella pygmaea* (Körb.) D. Hawksw. – loc. 165: on: *Lecidea fuscoatra*.
- #+*Muellerella ventosicola* (Mudd) D. Hawksw. – loc. 159: on *Rhizocarpon geographicum*.
- #*Myriospora rufescens* (Ach.) Nägeli – loc. 32, 34, 77, 80, 81, 105, 153, 204: on siliceous rocks.
- ϕ*Nesothele hymenogonia* (Nyl.) Orange – loc. 11: on calcareous rock (Yazıcı & al. 2010a).
- #*Omphalodina chrysoleuca* (Sm.) S.Y. Kondr., Lökös & Farkas – loc. 161: on siliceous rock.
- ϕ*Opeltia flavorubescens* (Huds.) S.Y. Kondr. & Hur. – Not found in this study (Yazıcı & al. 2010a).
- #*Oxnerella castanomelodes* (H. Mayrhofer & Poelt) S.Y. Kondr., Lökös & Hur – loc. 9, 10, 13, 15, 17, 28, 29, 32, 38, 39, 43–45, 49, 51, 53, 57, 59, 62, 65, 70, 72, 75, 84–86, 89, 94, 95, 108, 119, 120, 124, 127, 129, 130, 140, 141, 161, 164, 168, 169, 177, 178, 190, 194–196, 200, 203–206, 210–213: on calcareous rocks.
- #*Parabagliettoa dufourii* (DC.) Gueidan & Cl. Roux – loc. 50, 80, 81, 101, 183: on calcareous rocks.
- #*Parmelina tiliacea* (Hoffm.) Hale – loc. 149: *Quercus* sp., 152: on mosses.
- #*Parvoplaca tirolensis* (Zahlbr.) Arup, Søchting & Frödén – loc. 58–61, 65, 99, 101, 104, 124: on mosses.
- #*Peccania coralloides* (A. Massal.) Arnold – loc. 132, 139: on calcareous rocks.
- ϕ\**Peccania tiruncula* (Nyl.) Henssen – loc. 85: on calcareous rock. Previously found in Siirt (Yazıcı & Aslan 2023).
- #*Peltigera rufescens* (Weiss) Humb. – loc. 108, 132, 148: on mosses.
- #*Peltula euplaca* (Ach.) Poelt ex Pišút – loc. 151: on siliceous rock.
- #*Pertusaria chiodectonoides* Bagl. ex A. Massal. – loc. 9, 62, 95, 103, 117, 118, 129, 142, 148, 151: on siliceous rocks.
- #*Pertusaria flavicans* Lamy – loc. 40: on siliceous rock.
- #*Phaeophyscia endococcina* (Körb.) Moberg – loc. 144: on siliceous rock.
- ϕ*Phaeophyscia orbicularis* (Neck.) Moberg – loc. 1–5, 14, 15, 20, 24, 28–33, 36, 39, 41, 43, 45–48, 50, 52, 54, 57, 58, 60, 62–66, 68–70, 72–76, 80, 81, 83, 86, 87, 90, 94, 96, 101, 103, 108, 109, 118, 120, 122–125, 127–130, 133–136, 142–144, 146, 147, 150–155, 157, 158, 162–166, 178, 182, 194, 201, 208, 210–212: on *Quercus* sp.; 8, 159: on *Juglans* sp.; 7, 11, 12: on *Prunus* sp.; 174: on *Salix* sp.; 35, 37, 49, 55, 61, 71, 77, 85, 156, 168, 187, 193: on *Quercus* sp. and *Populus* sp.; 38, 42, 78, 82, 145, 148, 167, 170, 181: on *Quercus* sp. and *Salix* sp.; 40, 184, 189, 202, 205: on *Quercus* sp. and *Prunus* sp.; 44, 53, 56, 79, 84, 121, 126, 140, 141, 149, 177, 183, 190, 200, 206, 207: on *Quercus* sp. and *Juglans* sp.; 169, 199: on *Juglans* sp. and *Populus* sp.; 138: on *Quercus* sp., *Populus* sp. and *Salix* sp.; 34: on *Quercus* sp., *Rhus* sp., *Prunus* sp. and *Populus* sp. (Yazıcı & al. 2010a).
- #*Phaeophyscia sciastra* (Ach.) Moberg – loc. 161: on mosses.
- #*Physcia adscendens* H. Olivier – loc. 32, 55, 56, 62, 65, 72, 77, 131, 132, 150, 153, 154, 157: on *Quercus* sp.; 78: on *Populus* sp.; 67, 79: on *Quercus* sp., and *Juglans* sp.; 68, 128: on *Quercus* sp. and *Populus* sp.; 80: on *Quercus* sp. and *Salix* sp.

- ♁*Phyiscia aipolia* (Ehrh. ex Humb.) Fűrnr. – loc. 14, 15, 20–22, 24, 25, 31, 32, 37, 50, 51, 60–62, 65, 71, 72, 83, 86, 87, 90, 100, 101, 103, 109, 110, 112, 114–116, 118, 131–134, 143, 144, 139, 146, 148, 149, 150, 153, 155, 152, 154, 156–161, 165, 167, 173, 195, 201, 202, 204, 205, 207–214: on *Quercus* sp.; 166: on *Juglans* sp.; 174: on *Prunus* sp.; 8: on *Populus* sp.; 36, 59, 70, 77, 85, 137, 151, 189: on *Quercus* sp. and *Juglans* sp.; 79, 171, 176, 190: on *Quercus* sp. and *Prunus* sp.; 58, 74, 78, 193: on *Quercus* sp. and *Populus* sp.; 38, 75, 80, 82, 84, 178: on *Quercus* sp. and *Salix* sp.; 76: on *Populus* sp. and *Salix* sp.; 7: on *Juglans* sp. and *Populus* sp.; 73, 81: on *Quercus* sp., *Populus* sp. and *Salix* sp.; 49: on *Quercus* sp., *Juglans* sp. and *Populus* sp. (Yazıcı & al. 2010a).
- #*Phyiscia albinea* (Ach.) Malbr. – loc. 81: on siliceous rock.
- ♁*Phyiscia biziana* (A. Massal.) Zahlbr. – loc. 14, 15, 20, 22, 25, 27–32, 61, 62, 72, 80, 84, 85, 95, 103, 105–107, 110, 117, 119, 127, 130, 135, 136, 139–145, 148, 150, 152–154, 156, 172, 202, 204, 207, 208, 214: on *Quercus* sp.; 69, 100, 122: on *Populus* sp.; 6, 8, 55, 63, 67, 78, 82: on *Quercus* sp. and *Populus* sp.; 4, 81, 132, 198, 206: on *Quercus* sp. and *Salix* sp.; 7, 56, 83, 29, 133, 197: on *Quercus* sp. and *Juglans* sp.; 79: on *Quercus* sp. and *Prunus* sp.; 64: on *Salix* sp. and *Populus* sp.; 65: on *Quercus* sp., *Salix* sp. and *Populus* sp.; 77: on *Quercus* sp., *Juglans* sp. and *Populus* sp. (Yazıcı & al. 2010a).
- #*Phyiscia caesia* (Hoffm.) Fűrnr. – loc. 63, 64: on siliceous rocks.
- #*Phyiscia cernohorskyi* Nád. – loc. 48, 63, 64, 72, 73, 87, 108, 175–177, 184, 207, 208: on calcareous rocks.
- ♁*Phyiscia dimidiata* (Arnold) Nyl. – Not found in this study (Yazıcı & al. 2010a).
- #*Phyiscia dubia* (Hoffm.) Lettau – loc. 13, 32, 48, 50, 51, 60–65, 67, 68, 72, 86, 94, 95, 97, 98, 103, 105–108, 148, 150, 152, 159, 164, 173, 177, 179, 180: on siliceous rocks; 66: on *Juglans* sp.; 153: on *Prunus* sp.; 14, 15, 71, 75, 85, 102, 112–114, 123, 124, 149, 151, 157, 213. On *Quercus* sp.; 54, 56, 74, 81, 146, 158: on *Quercus* sp. and *Salix* sp.; 55, 76, 82: on *Quercus* sp. and *Juglans* sp., 69, 70, 73, 77, 80, 176.: on *Quercus* sp. and *Populus* sp.; 79, 84, 104, 111. On *Quercus* sp., *Populus* sp. and *Juglans* sp., 49, 78, 83: on *Quercus* sp., *Salix* sp. and *Populus* sp.
- #*Phyiscia stellaris* (L.) Nyl. – loc. 62, 95, 201: on *Quercus* sp.
- #*Phyiscia tenella* (Scop.) DC. – loc. 32, 72: on *Quercus* sp.
- #*Phyiscia tribacia* (Ach.) Nyl. – loc. 25, 62–64, 87: on siliceous rocks.
- ♁*Physciella poeltii* (Frey) D. Liu & J.S. Hur. – Not found in this study (Yazıcı & al. 2010a).
- ♁*Physconia distorta* (With.) J.R. Laundon – loc. 20, 21, 23–25, 27–32, 34, 37, 59, 60, 62, 65, 68, 72, 76, 83, 86, 87, 94–96, 109, 115–118, 121, 124, 129–137, 146–148, 152–160, 163–167, 171, 181, 193, 202, 204, 206, 209–214: on *Quercus* sp.; 168: on *Juglans* sp.; 175, 182: on *Prunus* sp.; 50, 57, 138, 150: on *Quercus* sp. and *Salix* sp.; 33, 38, 49, 51, 126, 127, 151, 169, 177, 200: *Quercus* sp. and *Populus* sp.; 36, 122, 123, 128: on *Quercus* sp. and *Juglans* sp.; 184: on *Salix* sp. and *Populus* sp.; 199, 201: on *Quercus* sp., *Juglans* sp. and *Populus* sp. (Yazıcı & al. 2010a).
- #*Physconia enteroxantha* (Nyl.) Poelt – loc. 64: on mosses.
- ♁*Physconia muscigena* (Ach.) Moberg – loc. 32, 60, 63, 64, 72, 118, 150: on mosses (Yazıcı & al. 2010a).
- #*Physconia perisidiosa* (Erichsen) Moberg – loc. 25, 60, 63, 64, 100, 135, 136, 148, 150, 159: on mosses.
- #*Pisutiella conversa* (Kremp.) S.Y. Kondr., Lőkös & Farkas – loc. 106: on siliceous rock.
- #*DPisutiella grimmiae* (Nyl.) S.Y. Kondr. Lőkös & Farkas – loc. 190: on *Candelariella vitellina*.
- #*Placocarpus schaeferi* (Fr.) Breuss – loc. 4, 5, 9, 13, 15–18, 21, 23, 31, 34, 41, 45, 54, 60, 72, 74, 76, 83, 84, 86, 91, 92, 104, 108–110, 114, 115, 117–120, 122, 128, 135, 140, 144, 147, 149, 161, 162, 164, 169, 170, 173–177, 179, 180, 183–189, 191, 194, 196, 200, 203, 206: on calcareous rocks.
- #*Placopyrenium bucekii* (Nád. & Servít) Breuss – loc. 31, 34, 130, 144, 153, 196, 199: on calcareous rocks.
- #*Placopyrenium iranicum* Breuss – loc. 4: on siliceous rock.
- #*Placopyrenium trachyticum* (Hazsl.) Breuss – loc. 2, 4, 8, 14, 15, 19, 29, 30–, 31, 32, 33, 35, 37, 39, 40, 42–, 43, 44, 46, 47, 49, 51–, 52, 53, 54, 55, 56, 57, 58, 60, 63, 64, 66, 67, 70–, 71, 72, 73, 74, 75, 77–, 78, 79, 80, 81, 82, 83, 84, 99, 104, 105, 107, 108, 113, 115, 119, 122, 124–, 125, 126, 130, 131, 135, 138, 141, 143, 144, 149, 150, 152–, 153, 154, 161–, 162, 163, 164, 168, 169, 181–, 182, 183, 191, 194, 196, 198, 199–, 200, 201, 202, 203, 204, 205, 206, 209–, 210, 211, 212: on calcareous rocks.
- #*Placynthium asperellum* (Ach.) Trevis. – loc. 16: on siliceous rock.
- #*Placynthium hungaricum* Gyeln. – loc. 42, 60, 61, 73, 83: on calcareous rocks.
- #*Placynthium nigrum* (Huds.) Gray – loc. 1, 4–7, 10, 12, 13, 15, 16, 19, 26, 28–33, 35, 36, 38, 40, 42, 43, 45, 47, 49, 51, 52, 55–61, 63–70, 72–76, 78–81, 83–86, 88, 89, 94, 96, 99, 102, 104, 107, 108, 111, 115, 119, 120, 122–126, 129–132, 135–138, 140–144, 148–155, 161–164, 168–173, 177, 186, 194–196, 200, 202, 204–207, 209, 212, 213: on calcareous rocks.
- #*Pleurosticta acetabulum* (Neck.) Elix & Lumbsch – loc. 144: on *Quercus* sp.
- #*Poeltonia grisea* (Lam.) S.Y. Kondr., Lőkös & Hur. – loc. 60: on mosses.
- ♁*Poeltonia venusta* (Ach.) S.Y. Kondr., Lőkös & Hur. – Not found in this study (Yazıcı & al. 2010a).
- #*Polyblastia cupularis* A. Massal. – loc. 35: on calcareous rock.
- #*Polyblastia dermatodes* A. Massal. – loc. 33: on calcareous rock.
- #*Polyzozia agardhiana* (Ach.) S.Y. Kondr. Lőkös & Farkas – loc. 14, 33, 35, 44, 51, 52, 58, 59, 53, 86, 99, 104, 175, 206: on calcareous rocks.
- #*Polyzozia albescens* (Hoffm.) S.Y. Kondr. Lőkös & Farkas – loc. 9, 10, 14, 15, 23, 30–, 33, 35, 39, 40, 42, 43, 46, 48, 49, 51–55, 58, 59, 61, 63–75, 77, 81, 82, 85–88, 91–93, 95, 99, 100, 104, 106, 108, 109, 115, 117, 124, 125, 127–129, 131, 134–139, 153, 154, 159, 163, 164, 176, 177, 194, 196, 198–203, 207, 208, 211, 212: on calcareous rocks.

♠*Polyozosia crenulata* (Ach.) S.Y. Kondr., Lőkös & Farkas – loc. 7, 13, 28, 30, 31, 39, 40, 46, 49, 51, 55, 58–60, 69, 71–73, 75, 77, 78, 82, 85, 86, 88, 95, 99, 100, 102, 105, 115, 117, 119, 120, 123–127, 129, 137, 139, 141, 156, 159, 162, 164, 167, 173–176, 184, 185, 187–189, 192, 194, 196, 199, 202, 203, 207, 209, 214: on calcareous rocks (Yazıcı & al. 2010a).

♠*Polyozosia dispersa* (Pers.) S.Y. Kondr. Lőkös & Farkas – loc. 1, 2, 4, 6–10, 13, 15, 16, 21, 22, 27–36, 39–46, 48–83, 85, 89–101, 104–108, 110–113, 116, 118–120, 123–127, 129–133, 136–139, 141–144, 146–150, 152–157, 159–170, 173–179, 183–189, 193–203, 207–214: on calcareous rocks; 151: on *Quercus* sp. (Yazıcı & al. 2010a).

♠*Polyozosia hagenii* (Ach.) S.Y. Kondr. Lőkös & Farkas – loc. 2, 20, 24, 25, 28–, 29, 30, 31, 32, 45, 47, 60–68, 70, 72, 73, 75, 77, 80, 83, 85, 86, 94, 96, 98, 101, 108, 111–116, 118, 123–125, 137, 142–144, 146, 149–159, 164, 167, 193, 194, 200–202, 214, 184: on *Quercus* sp.; 43, 69, 100, 166: on *Populus* sp.; 1, 3, 36, 38, 39, 41, 46, 52, 53, 56, 58, 66, 71, 74, 81, 102, 183, 197: on *Quercus* sp. and *Populus* sp.; 37, 48, 50, 51, 55, 57, 78, 84, 481: on *Quercus* sp. and *Salix* sp.; 59, 76, 79, 82, 198: on *Quercus* sp. and *Juglans* sp.; 168, 182: on *Quercus* sp. and *Prunus* sp.; 42: on *Quercus* sp. and *Rhus* sp.; 44, 103: on *Populus* sp. and *Juglans* sp.; 40, 49: on *Quercus* sp. *Salix* sp. and *Populus* sp.; 33: on *Quercus* sp., *Rhus* sp. and *Salix* sp.; 34: on *Quercus* sp., *Rhus* sp. and *Populus* sp.

♠*Polyozosia invadens* (H. Magn.) S.Y. Kondr. Lőkös & Farkas, – loc 2, 51, 69, 80: on soil.

♠*Polyozosia persimilis* (Th.Fr.) S.Y. Kondr., Lőkös & Farkas – loc. 150: on *Quercus* sp.

♠*Polyozosia pruinosa* (Chaub.) S.Y. Kondr., Lőkös & Farkas – loc. 15, 65: on calcareous rocks.

♠*Polyozosia semipallida* (H. Magn.) S.Y. Kondr. Lőkös & Farkas – loc. 2, 30–33, 35, 45, 49, 51, 54, 55, 57, 59, 65, 68, 73, 80, 85, 107, 108, 138, 196, 199, 202, 203, 211: on calcareous rocks.

♠*Polysporina subfuscescens* (Nyl.) K. Knudsen & Kourk. – loc. 9: on *Immersaria* sp.

♠*Protoblastenia incrustans* (DC.) J. Steiner – loc. 4, 5: on calcareous rocks.

♠*Protoblastenia rupestris* (Scop.) J. Steiner – loc. 100: on calcareous rock.

♠*Protoparmeliopsis bolcana* (Pollini) Lumbsch – loc. 1, 6, 7, 36, 39, 53, 54, 56, 65, 67, 71, 72, 75, 76, 83, 84, 95, 118, 119, 120, 122, 124, 130, 141, 144, 151, 155, 160, 164, 171, 177, 188, 196: on siliceous rocks.

♠*Protoparmeliopsis garovaglii* (Körb.) Arup, Zhao Xin & Lumbsch – loc. 76, 87, 89, 105, 106, 123, 148, 191, 214: on siliceous rocks.

♠*Protoparmeliopsis klauskalbii* (Sipman) Şen kard. – loc. 1, 2, 4–11, 13, 16, 17, 19, 30, 31, 39, 40, 45, 54, 69, 71, 72, 75, 76, 78, 83, 84, 87–89, 92, 95, 117, 119, 122–124, 127, 129–132, 135, 137–145, 149, 155, 160, 162–164, 168–171, 173, 177, 179, 180, 188, 190–192, 195, 196, 199, 200, 203–206: on siliceous rocks.

♠*Protoparmeliopsis laatokkaensis* (Räsänen) Moberg & R. Sant. – loc. 67: on siliceous rock.

♠*Protoparmeliopsis muralis* (Schreb.) M. Choisy – loc. 1, 2, 4–10, 12, 13, 15–17, 19, 21, 22, 24–29, 31–, 32, 33, 34, 35, 36, 38–40, 42, 45, 48, 49, 51, 53, 54, 56, 59–65, 68–72, 74–79, 81–95, 100, 101, 106–112, 114–120, 122–155, 159–166, 168–177, 179, 180, 183–192, 194–196, 199–208, 214: on calcareous rocks (Yazıcı & al. 2010a).

♠*Protoparmeliopsis peltata* Ramond ex Arup, Zhao Xin & Lumbsch – loc. 63, 64: on calcareous rocks.

♠*Pseudoleptogium diffractum* (Kremp. ex Körb.) Müll. Arg. – loc. 53, 75, 96, 108, 119, 120, 127, 129, 143, 149, 150, 153, 155, 161, 162, 164, 168–170, 173, 177, 179, 180: on calcareous rocks.

♠*Psora decipiens* (Hedw.) Hoffm. – loc. 15, 19, 42, 43, 51, 137, 140, 162, 195: on soil.

♠*Psora globifera* (Ach.) A. Massal. – loc. 65: on soil.

♠*Psora testacea* Hoffm. – loc. 19, 28, 29: on calcareous rocks.

♠*Psora vallesiaca* (Schaer.) Timdal – loc. 15, 30, 31, 34, 42, 43, 45, 49, 65, 69, 84, 88, 119, 145, 152, 200, 205, 213: on calcareous rocks.

♠*Psorotichia schaeereri* (A. Massal.) Arnold – loc. 2, 4, 15, 16, 19, 75, 83, 94, 119, 120, 121–123, 135, 141, 143, 144, 152, 153, 162, 164, 169, 170, 184, 192, 194, 200, 203: on siliceous rocks.

♠*Punctelia oxyspora* (Tul.) Divakar, A. Crespo & Lumbsch – loc 151: on *Xanthoparmelia tinctoria*.

♠*Pyrenodesmia albopruinosa* (Arnold) S.Y. Kondr. – loc. 1, 2, 14, 15, 28, 29, 32, 33, 36–38, 40–42, 44, 45, 50–53, 57–59, 61, 71, 74, 76, 80–82, 86, 89, 91, 108, 119, 120, 134, 135, 141, 147, 167, 177, 179, 180, 187, 194–197, 199, 201, 202, 207, 213: on calcareous rocks.

♠*Pyrenodesmia alociza* (A. Massal.) Arnold – loc. 15, 35, 36, 41, 45, 47, 56, 57, 71, 74, 79, 106, 146, 201–, 202, 203, 206: on calcareous rocks.

♠*Pyrenodesmia ceracea* (J.R. Laundon) S.Y. Kondr. – loc. 40, 45, 49, 56, 74, 83, 106: on siliceous rocks.

♠*Pyrenodesmia chalybaea* (Fr.) A. Massal. – loc. 1–3, 5, 9, 14, 15, 19, 25–35, 37, 38, 40–50, 53–57, 59, 63–65, 67, 69, 73, 75–77, 79–82, 85–92, 96, 100, 101, 115, 119, 120, 125–129, 133–143, 145, 146, 152–155, 159, 164, 165, 168, 174, 176, 177, 179, 180, 183, 184, 186, 187, 192, 194, 196, 199, 200–203, 205–209, 211–213: on calcareous rocks.

♠*Pyrenodesmia erodens* (Tretiach, Pinna & Grube) Søchting, Arup & Frödén – loc. 158: on calcareous rock.

♠*Pyrenodesmia variabilis* (Pers.) A. Massal. – loc. 1–11, 13–17, 19, 21, 24, 26–54, 56–95, 99–101, 104–127, 129, 130–166, 168–173, 175–177, 179, 180, 182–186, 190–192, 194–196, 198–207, 209–213: on calcareous rocks (Yazıcı & al. 2010a).

♠*Rhizocarpon disporum* (Nägeli ex Hepp) Müll. Arg. – loc. 64: on siliceous rock.

♠*Rhizocarpon distinctum* Th. Fr. – loc. 108: on siliceous rock.

♠*Rhizocarpon geminatum* Körb. – loc. 76, 148: on siliceous rocks

♠*Rhizocarpon geographicum* (L.) DC. – loc. 62–64, 67, 68, 75, 76, 89, 106, 107, 135, 143, 148, 159, 184: on siliceous rocks.

- #*Rhizocarpon lecanorinum* Anders – loc. 76: on siliceous rock.
- #*Rhizocarpon reductum* Th. Fr. – loc. 124: on siliceous rock.
- #*Rhizoplaca melanophthalma* (DC.) Leuckert & Poelt – loc. 93: on calcareous rock.
- #*Rinodina bischoffii* (Hepp) A. Massal. – loc. 1–7, 13–15, 19, 21, 26, 28–33, 35–49, 51–59, 61, 64–66, 68–72, 74, 75, 77–83, 85, 86, 89, 91, 95, 98, 99, 102, 104–106, 108, 113, 115, 117, 119, 120, 124–127, 129, 132, 134, 137, 138, 142, 143, 145, 147, 150, 153, 154, 155, 158, 161, 168, 170, 171, 173, 176–178, 180, 182–184, 186, 187, 191, 190, 194–196, 199–204, 206, 209–213: on calcareous rocks.
- #*Rinodina calcarea* (Arnold) Arnold – loc. 4, 7–9, 15, 16, 28, 29, 31, 32, 35, 39, 40, 49, 52, 53, 60, 72, 75, 76, 81, 85, 87, 89, 94, 99, 100, 104, 108, 115, 119, 124, 125, 129, 131, 135, 138, 141–144, 146, 152, 159, 161, 168–171, 173, 177, 179, 180, 194–196, 198, 200–206, 209, 212: on calcareous rocks.
- #*Rinodina castanomela* (Nyl.) Arnold – loc. 70, 107: on calcareous rocks.
- #*Rinodina colobina* (Ach.) Th. Fr. – loc. 128: on *Quercus* sp.
- #*Rinodina dubyana* (Hepp) J. Steiner – loc. 2, 33, 51, 52, 54, 80, 99, 168, 172, 177, 180, 200, 202, 206: on calcareous rocks.
- #*Rinodina guzzini* Jatta – loc. 15, 16, 40, 53, 65, 81, 85, 124, 135, 137, 141, 143, 161, 191, 202–205, 211: on calcareous rocks.
- #*Rinodina immersa* (Körb.) J. Steiner – loc. 2, 4, 5, 14, 23, 24, 31, 33, 35–38, 43, 40, 45, 48, 50, 51, 53, 54, 56, 59–61, 67, 69, 72–76, 80, 82, 83, 86–88, 90–93, 99, 101, 104, 105, 108–110, 116, 119, 120, 125, 126, 133, 145, 147, 156, 159, 166, 167, 172–177, 179, 180, 183–185, 189, 200, 201–203, 207, 208, 213, 214: on calcareous rocks.
- ♂*Rinodina lecanorina* (A. Massal.) A. Massal. – loc. 1, 4–7, 15, 16, 29–31, 33, 35, 40, 42, 43, 45, 49, 51, 52, 54–57, 60, 61, 66, 69, 70–73, 75–77, 81, 83–87, 92, 99, 100, 104, 107, 112, 119, 124, 125, 131, 134, 135, 137, 138, 141–143, 146, 152, 161–164, 168, 170, 179, 190, 194, 196, 200, 202, 203, 205, 206, 212: on calcareous rocks (Mayrhofer 1984; Mayrhofer & al. 1990).
- #*Rinodina milvina* (Wahlenb. ex Ach.) Th. Fr. – loc. 35, 54, 61, 63, 64, 72, 76, 83, 105, 122: on calcareous rocks.
- #*Rinodina obnascens* (Nyl.) H. Olivier – loc. 148: on *Circinaria* sp.
- #*Rinodina occulta* (Körb.) Sheard – loc. 85: on siliceous rock.
- #*Rinodina parasitica* H. Mayrhofer & Poelt – loc. 177: on *Circinaria hoffmanniana*; 194: on *Rinodinella controversa*.
- ♂*Rinodina parvula* H. Mayrhofer & Poelt. – Not found in this study (Yazıcı & Engin 2024).
- ♂*Rinodina poeltii* H. Mayrhofer – loc. 1, 2, 6, 14, 15, 29–31, 34, 38, 39, 49, 53, 54, 75, 83, 94, 119, 120, 140–143, 168, 172, 173, 177, 179, 180, 194, 195, 199, 200, 204, 205, 206: on calcareous rocks (Şenkardeşler 2009).
- #*Rinodina pyrina* (Ach.) Arnold – loc. 20, 24, 25, 27, 31, 65, 83, 86, 143, 144, 146, 150, 156, 158, 159, 201, 202, 214: on *Quercus* sp.
- #*Rinodina rinodinoides* (Anzi) H. Mayrhofer & Scheid. – loc. 107: on siliceous rock.
- #*Rinodina teichophila* (Nyl.) Arnold – loc. 124: on siliceous rock.
- #*Rinodina trachytica* (A. Massal.) Arnold – loc. 151: on siliceous rock.
- #*Rinodinella controversa* (A. Massal.) H. Mayrhofer & Poelt – loc. 45, 94, 177, 127, 188, 205: on calcareous rocks.
- #*Romjularia lurida* (Ach.) Timdal – loc. 1, 5–7, 15–17, 39, 42, 43, 51–53, 55, 56, 65, 73, 75, 85, 99, 108, 119, 121, 129, 140, 144, 154, 157–160, 162, 166, 167, 170, 174, 185, 194, 196, 199, 200, 205, 206, 211, 213: on soil.
- #+*Rosellinula haplospora* (Th. Fr. & Almq.) R. Sant. – loc. 144 on *Aspiciliella* sp.
- #*Rufoplaca arenaria* (Pers.) Arup, Söchting & Frödén – loc. 123: on siliceous rock.
- #*Rusavskia elegans* (Link) S.Y. Kondr. & Kärnefelt – loc. 105, 106: on siliceous rock.
- #*Sanguineodiscus aractinus* (Fr.) I.V. Frolov & Vondrák – loc. 148: on siliceous rock.
- ♂\**Sarcogyne arenosa* (Herre) K. Knudsen & S. Standl. – loc. 163: on calcareous rock. Previously found in Siirt (Yazıcı & al. 2023).
- #*Sarcogyne clavus* (DC.) Kremp. – loc. 41, 43, 82: on siliceous rocks.
- #*Sarcogyne fallax* H. Magn. – loc. 2, 3, 31, 53, 60, 64, 120, 205, 206: on siliceous rocks.
- #*Sarcogyne platycarpoides* Anzi – loc. 211: on calcareous rock.
- ♂*Sarcogyne regularis* Körb. – loc. 2, 4, 5, 7, 9, 16, 24, 30, 31, 33, 35, 36, 40–46, 48, 53, 55–57, 59, 60, 63, 65, 71, 75–77, 81–83, 85, 88, 96, 105, 107, 108, 112, 117, 119, 120, 134, 135, 137, 140, 145–147, 149, 150, 153, 155, 159, 163–166, 173, 174, 180, 186, 194, 203, 204, 206, 207, 211–213: on calcareous rocks (Yazıcı & al. 2010a).
- #*Scythioria phlogina* (Ach.) S.Y. Kondr., I. Kärnefelt, Elix, A. Thell & Hur – loc. 32, 59, 60, 62, 65, 148–150, 52, 154: on *Quercus* sp.
- #*Scytinium callopismum* (A. Massal.) Otálora, P.M. Jørg. & Wedin – loc. 203: on calcareous rock.
- #*Scytinium gelatinosum* (With.) Otálora, P.M. Jørg. & Wedin – loc. 45: on mosses.
- #*Scytinium lichenoides* (L.) Otálora, P.M. Jørg. & Wedin – loc. 15, 20, 31, 32, 34, 40, 45, 49, 60, 63–65, 68, 72, 74–76, 81, 83, 108, 111, 119, 120, 122, 125, 126, 130, 132, 144, 146, 150, 153–155, 158, 164, 166, 168, 196, 202, 214: on mosses.
- #*Scytinium massiliense* (Nyl.) Atálora, P.M. Jørg. & Wedin – loc. 69, 155: on calcareous rocks.
- #*Scytinium palmatum* (Huds.) Gray – loc. 63: on siliceous rock.
- #*Scytinium parvum* (Degel.) Otálora, P.M. Jørg. & Wedin – loc. 32–36, 38, 40–42, 49, 54, 55, 57, 60, 66, 70, 72, 95, 123, 140, 152, 194, 201, 202: on calcareous rocks.
- #*Scytinium plicatile* (Ach.) Otálora, P.M. Jørg. & Wedin – loc. 6, 9, 14, 16, 19, 40, 51, 60, 72, 85, 95, 122, 132, 152, 161, 172, 191, 194, 195, 201, 202: on calcareous rocks.

#*Scytinium schraderi* (Ach.) Otálora, P.M. Jørg. & Wedin – loc. 9, 69, 125, 132, 152, 153, 202: on calcareous rocks.

♂*Seawardiella lobulata* (Flörke) S.Y. Kondr., I. Kärnefelt & A. Thell – loc. 2, 3, 5, 6, 11, 13, 31, 41, 42, 44–48, 54, 55, 57, 59–65, 68–74, 77–80, 84, 85, 94, 95, 97, 102, 107–109, 111, 113, 115, 123, 135, 136, 140, 141, 143, 144, 146, 150, 153, 154, 157, 160, 162, 201–203, 212, 213: on *Quercus* sp.; 12, 75: on *Populus* sp.; 159 on *Juglans* sp.; 39, 138, 155, 158: on *Quercus* sp. and *Populus* sp.; 56, 81, 142, 148, 156: on *Quercus* sp. and *Juglans* sp.; 43, 83: on *Populus* sp. and *Juglans* sp.; 76: on *Quercus* sp. and *Salix* sp.; 170: on *Quercus* sp. and *Prunus* sp.; 82: on *Salix* sp. and *Populus* sp.; 40: on *Quercus* sp., *Salix* sp. and *Populus* sp.; 206: on *Quercus* sp., *Juglans* sp. and *Prunus* sp. (Yazıcı & al. 2010a).

#*Solenopsora olivacea* (Fr.) H. Kiliyas – loc. 11, 66, 95, 98, 117, 130, 137: on calcareous rocks.

#*Sporastatia testudinea* (Ach.) A. Massal. – loc. 71: on siliceous rock.

#*Squamarina cartilaginea* (With.) P. James – loc. 5, 6, 11, 13, 15, 17, 32, 34, 35, 37–39, 42, 43, 45, 55, 61, 69, 84, 96, 111, 117, 119, 120–122, 129–132, 135, 136, 138, 143, 144, 148, 150, 152, 154, 155, 160–162, 164, 170, 177, 191, 196, 199, 200, 204–207, 213: on calcareous rocks; 2, 4, 16, 19, 40, 47, 62, 75, 83, 95, 97, 137, 139, 142, 146, 149, 159, 169, 173, 194: on soil.

#*Squamarina lentigera* (Weber) Poelt – loc. 15, 19, 35, 40, 45, 47, 55, 61, 62, 68, 69, 71, 73, 74, 83, 95, 123, 129, 130, 137, 149, 152, 161, 199, 202, 204: on calcareous rocks.

#*Squamulea subsoluta* (Nyl.) Arup, Söchting & Frödén – loc. 84, 151: on siliceous rocks.

#*Staurothele areolata* (Ach.) Lettau – loc. 107, 119: on siliceous rocks.

#*Staurothele caesia* (Arnold) Arnold – loc. 30: on calcareous rock.

#*Staurothele fissa* (Taylor) Zwackh. – loc. 40: on siliceous rock.

#*Synalissa symphorea* (Ach.) Nyl. – loc. 4– 6, 16, 30, 31, 33, 39, 45, 51, 60, 62, 64, 66, 68, 73, 74, 78, 84, 87, 88, 92, 93, 95, 99, 104, 107, 108, 115, 119–122, 124, 126, 131, 132, 134, 135, 138, 140, 141, 143–146, 149, 152–155, 158, 159, 161–164, 166–170, 172–174, 176, 177, 179, 180, 186, 194–197, 204–207, 209, 213: on calcareous rocks.

#*Tephromela atra* (Huds.) Hafellner – loc. 63, 64: on siliceous rocks.

#*Tephromela grumosa* (Pers.) Hafellner & Cl. Roux – loc. 85: on siliceous rock.

#*Thalloidima candidum* Weber) A. Massal. – loc. 37, 39, 51, 60, 66, 70, 73, 85, 105, 106, 108, 153, 206: on calcareous rocks.

#*Thalloidima physaroides* (Opiz) Opiz – loc. 1, 63, 81, 136: on soil.

#*Thalloidima sedifolium* (Scop.) Kistenich, Timdal, Bendiksby & S. Ekman – loc. 1, 2, 5, 15–17, 19, 20, 24, 27, 31–34, 36–40, 42, 43, 45, 49, 53–56, 60, 62–66, 81, 85, 88, 89, 92, 107, 108, 115, 119–121, 126, 130, 131, 133, 135–137, 139–147, 152, 154–169, 174, 185, 188, 194, 196, 199, 202, 203, 206, 209, 213, 214: on soil.

#*Thalloidima tauricum* Szatala – loc. 60, 148: on calcareous rock; 135, 143, 153: on soil.

#*Thelidium papulare* (Fr.) J. Lahm – loc. 107: on siliceous rock.

“*Thelidium pyrenophorum* (Ach.) A. Massal. – loc.

## Distribution

*Specimen examined:* Turkey, Siirt: Eruh; opposite of Demiremek village, southern part, 37°43'00.85"N 42°06'48.32"E, 1311 m s.m., on calcareous rock, 03.08.2021, leg. K. Yazıcı (KTUB-2504), det. K. Yazıcı and A. Aptroot. Eruh; 1.5 km to North of Dikboğaz main road, 37°42'35.46"N 42°06'04.19"E, 1525 m s.m., on calcareous rock, 05.08.2021, leg. K. Yazıcı (KTUB-2507), det. K. Yazıcı and A. Aptroot. Baykan; exit of Gündoğdu village, southeastern part, 38°05'20.21"N 41°48'11.17"E, 849 m s.m., on calcareous rock, 21.06.2022, leg. K. Yazıcı (KTUB-2505), det. K. Yazıcı and A. Aptroot. It is new to Turkey.

#*Thyrea confusa* Henssen – loc. 129: on calcareous rock.

#*Toninia diffracta* (A. Massal.) Zahlbr. – loc. 4, 11, 16, 24, 39, 45, 56, 60, 63, 64, 66, 73, 111, 119, 135, 136, 143, 144, 148, 153–155, 162, 163, 170, 172, 205, 206, 209, 213: on calcareous rocks.

#*Toninia squalida* (Ach.) A. Massal. – loc. 15, 84, 126, 134, 141, 171, 173: on calcareous rocks.

#*Varicellaria lactea* (L.) I. Schmitt & Lumbsch – loc. 142: on siliceous rock.

#*Variospora aurantia* (Pers.) Arup, Frödén & Söchting – loc. 14, 15, 23, 29, 30–32, 34, 39, 80, 84, 122, 196, 201: on calcareous rocks.

#*Variospora dolomiticola* (Zahlbr.) Arup, Söchting & Frödén – loc. 2: on calcareous rock.

#*Variospora flavescens* (Huds.) Arup, Frödén & Söchting – loc. 28, 31, 34, 36, 46, 84: on calcareous rocks.

#*Variospora velana* (A. Massal.) Arup, Söchting & Frödén – loc. 2, 38, 55, 68, 163: on calcareous rocks.

#\**Verrucaria bryoctona* (Th. Fr.) Orange – loc. 14: on mosses. Previously found in Burdur (Aslan & Yazıcı 2013).

#*Verrucaria canella* Nyl. – loc. 151: on calcareous rock.

♂*Verrucaria caerulea* DC. – loc. 4, 31, 79, 87, 108, 149, 175, 212: on calcareous rocks (Yazıcı & al. 2010a).

♂*Verrucaria fuscella* (Turner) Winch – loc. 4, 8, 14, 15, 29, 35, 40, 49, 55, 64, 66, 71, 75, 82, 84, 108, 144, 145, 153, 168, 177, 196, 199, 209, 212: on calcareous rocks (Yazıcı & al. 2010a).

#*Verrucaria hochstetteri* Fr. – loc. 15: on calcareous rock.

♂*Verrucaria macrostoma* DC. – loc. 1, 2, 6, 14, 15, 26, 31, 36, 44, 46, 49, 52, 53, 57, 81, 85, 94, 98, 99, 119, 126, 127, 146, 159, 194, 202, 203, 207, 210–212: on calcareous rocks (Yazıcı & al. 2010a).

#*Verrucaria maculiformis* Kremp. – loc. 144: on calcareous rock.

♂*Verrucaria muralis* Ach. – loc. 85, 187, 212: on calcareous rocks (Yazıcı & al. 2010a).

♂*Verrucaria nigrescens* Pers. – loc. 1–7, 9–11, 13–19, 21–25, 27–61, 63–67, 69–94, 96, 97, 99–101, 103, 104, 107–110, 112, 114–117, 119, 120, 122–134, 136–139, 141–147, 150, 152–154, 158–166, 168–170, 173–177, 179, 180, 182–190, 192, 194, 196, 198–214: on calcareous rocks (Yazıcı & al. 2010a).

#*Verrucaria ochrostoma* Turner & Borrer – loc. 196, 203: on siliceous rocks.

#*Verrucaria polysticta* Borrer – loc. 2, 4, 7, 13, 14, 16, 29–32, 35, 40, 44, 46, 51, 56, 57, 67, 70, 72, 75, 77, 79, 81–83, 86–90, 99, 104, 106, 107, 118, 119, 122, 123, 126, 132, 134, 138, 141, 144, 146, 149, 150, 152, 153, 161–164, 174, 182–184, 196, 199, 200, 204, 205, 207, 210, 211, 212: on calcareous rocks.

#*Verrucaria sphaerospora* Anzi – loc. 6, 9, 17, 30, 31, 35, 36, 54, 70, 72, 108, 117, 132, 149, 151, 164, 170: on calcareous rocks.

#*Verrucaria viridula* (Schr.) Ach. – loc. 2, 11, 13, 15, 19, 24, 30–32, 35, 36, 42, 45, 46, 53, 55, 56, 60, 69, 78–82, 94, 98, 115, 117, 129, 168, 169, 125, 126, 143, 144, 146, 147, 158, 159, 165–167, 175, 181, 182, 184, 185, 191, 194, 203, 205, 207, 211, 213, 214: on calcareous rocks.

#*DVerrucula biatorinaria* (Zehetl.) Nav.-Ros. & Cl. Roux – loc. 4: on *Calogaya biatorina*

♂*Verruculopsis lecideoides* (A. Massal.) Gueidan & Cl. Roux – loc. 1, 23, 32, 42, 44, 54, 56, 81, 124, 141, 132, 161, 164, 210, 213: on siliceous rocks (Yazıcı & al. 2010a).

#*Xalocoa ocellata* (Fr.) Kraichak, Lücking & Lumbsch – loc. 4–6, 10, 13, 15, 16, 19, 26, 29, 45, 47, 60, 63, 64, 84, 108, 119, 120, 122, 130–132, 134–136, 143, 145, 146, 155, 160, 164, 168–171, 188, 191, 192, 194, 195, 199, 200, 204–206: on calcareous rocks.

#*Xanthocarpia crenulatella* (Nyl.) Frödén, Arup & Söchting – loc. 1, 2, 4, 7, 9–11, 13, 24, 28–34, 36, 38, 40–45, 49, 51, 53, 54, 57, 59–61, 63, 64, 68, 70, 71, 74, 75, 77, 81, 82, 85, 89, 99, 100, 107, 108, 115, 119, 120, 123–127, 129, 130, 132, 134, 137, 138, 142, 145–147, 149, 150, 152, 153–155, 158, 159, 164, 165, 169, 174, 176, 179, 180, 182–184, 188, 191, 192, 195, 196, 199, 202–204, 206–209, 211–214: on calcareous rocks.

#*Xanthocarpia interfulgens* (Nyl.) Frödén, Arup & Söchting – loc. 9, 14, 35, 49, 51, 53, 57, 75, 77, 81, 85, 99, 105, 106, 108, 123–126, 132, 152, 153, 161, 173, 201, 203, 205, 212: on calcareous rocks.

#*Xanthocarpia lactea* (A. Massal.) A. Massal. – loc. 2, 14, 30–34, 36, 41, 43, 44, 49, 51, 53, 55, 57, 67, 68, 72, 76, 78, 79, 82, 106, 138, 155, 188, 194, 196, 200, 202, 210: on calcareous rocks.

♂*Xanthocarpia marmorata* (Bagl.) Frödén, Arup & Söchting – loc. 1, 28, 31, 38, 44, 45, 53, 56, 129, 177, 191, 194, 202, 203, 206, 212, 213: on calcareous rocks (Navarro-Rosinés & Hladun 1996).

#*Xanthomendoza fallax* Söchting, Kärnefelt & S.Y. Kondr. – loc. 87, 94: on *Quercus* sp.

#*Xanthomendoza fulva* (Hoffm.) Söchting, Kärnefelt & S.Y. Kondr. – loc. 36–39, 44, 58, 60, 62, 65, 83, 72–74, 77,

85, 94, 124: on *Quercus* sp.; 69: on *Populus* sp.; 75: on *Salix* sp.; 41, 49, 54, 63, 66, 67, 70, 81: on *Quercus* sp. and *Populus* sp.; 42, 51, 64, 84: on *Quercus* sp. and *Salix* sp.; 43, 52: on *Quercus* sp. and *Prunus* sp.; 79, 82, 123: on *Quercus* sp. and *Juglans* sp.; 55, 59, 76, 80: on *Salix* sp. and *Populus* sp.; 56: on *Juglans* sp. and *Populus* sp.; 78: on *Prunus* sp. and *Salix* sp.; 40, 50, 53: on *Quercus* sp., *Juglans* sp. and *Populus* sp.; 71: on *Quercus* sp., *Prunus* sp. and *Populus* sp.; 35: on *Quercus* sp., *Salix* sp. and *Rhus* sp.

#*Xanthoparmelia conspersa* (Ehrh. ex Ach.) Hale – loc. 148, 149: on siliceous rocks.

#*Xanthoparmelia pulla* (Ach.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – loc. 6, 62–64, 66, 67, 75, 76, 118, 123, 132, 142, 143, 146, 148, 151, 191, 192: on siliceous rocks.

#*Xanthoparmelia tinctoria* (Maheu & A. Gillet) Hale – loc. 62, 75, 76, 123, 148, 149, 151, 191: on siliceous rocks.

#*Xanthoparmelia verruculifera* (Nyl.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – loc. 24, 62–64, 76, 95, 118, 123, 132, 142, 145, 146, 148, 151, 159, 207, 214: on siliceous rocks.

#*Xanthoria parietina* (L.) Th. Fr. – loc. 68: on *Quercus* sp.

#*Zahlbrucknerella calcarea* (Herre) Zahlbr. – loc. 152, 153, 155, 164: on calcareous rocks.

#*Zwackhiomyces calcariae* (Flagey) Hafellner & Nik. Hoffm. – loc. 32: on *Circinaria* sp.

#*Zwackhiomyces cervinae* Calat., Triebel & Pérez-Ort. – loc. 26: on *Acarospora* sp.

Six lichens - *Flavoplaca polycarpa*, *Lambiella insularis*, *Monerolechia badia*, *Pisutiella grimmiae*, *Rinodina obnascens*, *Rinodina parasitica*, and *Verrucula biatorinaria* - are lichenicolous, being found on other lichens.

Of the earlier reported species, 42 lichens and one lichenicolous fungus have been found in the Siirt Province. *Blastenia crenularia*, *Circinaria rostamii*, *Lecania fuscilla*, *Opeltia flavorubescens*, *Physcia dimidiata*, *Physciella poeltii*, *Poeltonia venusta*, and *Rinodina parvula* have not been located during this study (John & Türk 2017; John & al. 2020; Mayrhofer 1984; Mayrhofer & al. 1990; Navarro-Rosinés & Hladun 1996; Oran & Öztürk 2007; Sohrabi & al. 2013; Şenkardeşler 2009; Şenkardeşler & Sohrabi 2011; Yazıcı & Aslan 2022b, 2023; Yazıcı & Engin 2024; Yazıcı & al. 2010a, 2023).

The lichens have developed on a total of 18 types of substrate (e.g. soil, siliceous rock, calcareous rock, moss, tree bark, and other lichens)

Some taxa have proved more tolerant in terms of substrate selection. Some lichens have been found to be widely distributed on many substrates, while others on only one type of substrate. The species *Candelariella antennaria*, *Phaeophyscia orbicularis*, *Physcia adscendens*, *P. aipolia*, *P. biziana*, *P. dubia*, *Physconia distorta*, *Polyozosia hagenii*, *Seawardiella lobulata*, and *Xanthomendoza fulva* have proved to be the most tolerant in terms of substrate preference and have been found on the highest number of substrate types (e.g. host tree species). As shown above,

some common lichens, such as *Candelariella antennaria*, *Xanthomendoza fulva*, *Phaeophyscia orbicularis*, *Physcia adscendens*, *P. aipolia*, *P. biziana*, *P. dubia*, *Physconia distorta*, *Polyozosia hagenii*, and *Seawardiella lobulata* have been found to grow on broad-leaved trees like *Quercus*, *Juglans*, *Populus*, *Salix*, etc.

Considering the general state of the lichen cover in the Province, lichens have been mostly found on rocks and on large stretches of land covered by oak trees, where the lichen taxa can develop. Crustose and foliose lichens have developed mostly on rocks and occasionally on soil, otherwise extremely poor for lichen development. Lichens develop mostly on rocks in the region. Foliose lichens have been found to develop on tree trunks, especially of *Quercus*, *Populus*, *Salix*, *Prunus*, and *Juglans*. Lichens growing on soil and at the highways have been fewer in number than the lichen taxa developing on rocks and tree trunks.

Epiphytic species have been mostly seen on the *Quercus* trees (40 taxa), on *Juglans*, *Populus* and *Salix* were found 10 taxa each, as well as nine taxa on *Prunus* and three taxa on *Rhus*.

Irrespective of the growing broad-leaved trees, such as *Quercus*, *Populus*, *Salix*, etc., crustose species have been mostly found on rocks, because the forest areas are few. Lichen flora of the Siirt Province is mostly composed of crustose lichens that predominantly develop on rocks. The most common species growing on these substrates are: *Acarospora cervina*, *A. fuscata*, *Aspicilia cinerea*, *A. polychroma*, *Aspiciliella cupreoglauca*, *Bagliettoa calciseda*, *Blennothallia crispa*, *Calogaya saxicola*, *Candelariella aurella*, *C. vitellina*, *Circinaria calcarea*, *C. contorta*, *C. hoffmanniana*, *C. scabridula*, *Diplotomma epipolium*, *Kuettlinge-*

*ria teicholyta*, *Lathagrium cristatum*, *Lecidella stigmatea*, *Lobothallia radiosa*, *Placocarpus schaeferi*, *Placopyrenium trachyticum*, *Placynthium nigrum*, *Polyozosia albescens*, *P. dispersa*, *Protoparmeliopsis klauskalbii*, *P. muralis*, *Pyrenodesmia albopruinosa*, *P. chalybaea*, *P. variabilis*, *Rinodina bischoffii*, *R. calcarea*, *R. immersa*, *R. lecanorina*, *Sarcogyne regularis*, *Synalissa symphorea*, *Verrucaria nigrescens*, *V. Polysticta*, and *Xanthocarpia crenulatella*,

Such species as *Agonimia tristicula*, *Parvoplaca tirolensis*, *Physconia muscigena*, *P. perisidiosa*, and *Scytinium lichenoides* have been observed on mosses more frequently. Some terricolous lichen species like *Catapyrenium squamulosum*, *Diploschistes muscorum*, *Enchylium tenax*, *Psora decipiens*, *Romjularia lurida*, *Squamarina cartilaginea*, and *Thalloidima sedifolium* have been encountered on soil.

Considering the general state of the lichen cover in the Siirt Province, there are many soil areas, where rocks are rare and unsuitable for lichen development, as well as areas without forests, where mostly oak trees are common. In Siirt, lichens develop mostly on rocks. Foliose lichens also developed on oaks that do not form forest areas. Lichens growing on soil and mosses were fewer than those growing on rocks and tree trunks. Excluding the lichenicolous fungi, 272 lichens are crustose, 51 foliose, five fruticose, and six are leprose. While 40 of the identified taxa (excluding the lichenicolous fungi) are epiphytic, 262 taxa have been detected on rocks (saxicolous), 257 taxa have been observed only as saxicolous, 15 only as muscolous (on mosses), and 14 only as terricolous (on soil); 18 taxa have been observed to grow on mosses (Table 2). Of the total of 40 taxa that have developed on trees, 33 have been observed only on trees.

**Table 2.** The number of taxa based on the growth form and substrate in the Siirt Province

The growth forms and substrata	Crustose	Foliose	Fruticose	Leprose	Total
Lichens total	272	51	5	6	334
rocks	227	25	5	5	262
rocks only	225	23	5	4	257
rock and tree	1	2	-	1	4
rock and soil	1	1	-	-	2
Epiphytic	21	18	-	1	40
Epiphytic only	18	16	-	-	34
soil	16	1	-	-	17
soil only	13	1	-	-	14
mosses	7	10	-	1	18
mosses only	5	9	-	1	15
mosses and soil	1	-	-	-	1
moss, soil and tree	1	-	-	-	1
moss and tree	-	1	-	-	1
moss, soil and tree	1	-	-	-	1
lichens	8	-	-	-	8

While epiphytic species have been mostly seen on *Quercus* trees (39 taxa), 10 taxa each have been found to develop on *Juglans*, *Populus*, *Salix*, nine taxa on *Prunus*, and eight taxa on *Rhus*.

As mentioned above, the fact that the first records of some lichens and lichenicolous fungi now recorded for the second time are from intensely studied regions of Turkey and show a wide distribution of species, once again proves that further researches of lichens are needed in every region of Turkey.

The genera *Hypogymnia*, *Parmelia*, *Peltigera*, and the species *Parmelia sulcata* and *Xanthoria parietina* so common elsewhere have not been seen there.

Climate, soil and flora of the land do not encourage the development of such taxa. Altitude, shade and wind are also important factors in their development.

Those taxa grow well on *Fagus*, *Picea*, *Carpinus* and other trees. The soil is dry, but the trees, mostly oaks, are visible.

Such taxa need water and water evaporation. The region's temperatures are very high and humidity is low, and although there are some rivers, the high temperatures still thwart the development of such taxa. The *Peltigera* taxa also like water and water evaporation, and because the soil is dry and the mosses they live on are not common, these taxa are also rare there. The genus *Stigmidium* has not been widespread in the Siirt Province.

Studies conducted in the eastern and southeastern Anatolia (Tunceli, Bitlis, Bingöl, Muş, etc.) since 2008 have also shown that the genus *Stigmidium* is not widespread due to the different unsuitable climate conditions and the lack of diverse tree species (Yazıcı & Aslan 2022a; Yazıcı & al. 2020a,b, 2022). A likely situation obtains in the Siirt Province. The mentioned genus often could not be found.

In some localities the highest number of taxa are: 64/68, 63/68, 60/68, 40/63, 15/63, 31/62, 32/60, 51/58, and 72/57. Although the total forest area amounts to 35% in the Siirt Province (URL-1), the observed number of lichens on mosses has been low.

Since the lichen-forming fungus has a wide distribution, species with wide ecological tolerance prevail in the studies on lichens. Such studies have been carried out in the eastern part of Turkey (Bitlis, Bingöl, Muş, and Tunceli). Lichen diversity there is similar to that in the present study area (Çobanoğlu & Doğan 2010; Çobanoğlu & Yavuz 2007; Hertel & Leuckert 2008; Song & al. 2019; Krisai-Greilhuber & al. 2017; Mayrhofer 1984; Mayrhofer & Poelt 1979; Szatala 1960; Vondrák & al. 2012; Yazıcı & Aptroot 2017; Yazıcı & Aslan 2016a,b, 2021, 2022a; Yazıcı & al. 2018, 2019, 2020a,b, 2022; Zakeri & al. 2021).

**Acknowledgements.** This study was financially supported by TUBITAK (Project No. 219Z014).

## References

- Akman, Y. 1999.** Climate and bioclimate (The methods of bioclimate and climate types of Turkey). 1<sup>st</sup> ed. Kariyer Matbaacılık Ltd., Şti. Ankara. 350 p.
- Aptroot, A. & Yazıcı, K. 2009.** *Opegrapha paucixcupulata*, a new corticolous lichen from Turkey. – Mycotaxon, **108**: 155-158.
- Aptroot, A. & Yazıcı, K. 2012.** A new *Placopyrenium* (*Verrucariaceae*) from Turkey. – The Lichenologist, **44**(6): 739-741.
- Arup, U., Söchtling, U. & Frödén, P. 2013.** A new taxonomy of the family *Teloschistaceae*. – Nordic J. Bot., **31**(1): 16-83.
- Aslan, A. & Yazıcı, K. 2013.** New *Lecanora*, *Lecidea*, *Melaspileia*, *Placynthium*, and *Verrucaria* records for Turkey and Asia. – Mycotaxon, **123**: 321-326.
- Baytop, A. & Denizci, R. 1963.** Türkiye'nin Flora ve Vegetasyonuna Genel Bir Bakış. Ege Üniv. Mat. Ege Üniv. Fen Fak. Monografiler Serisi 1, -İzmir.
- Blanco, O., Crespo, A., Divakar, P.K., Esslinger, T.L., Hawksworth, D.L. & Lumbsch, H.T. 2004.** *Melanelixia* and *Melanohalea*, two new genera segregated from *Melanelia* (*Parmeliaceae*) based on molecular and morphological data. – Mycol. Res., **108**(8): 873-884.
- Brodo, M.I., Sharnoff, S.D. & Sharnoff, S. 2001.** Lichens of North America. 1th Edition. Yale Univ. Press, New Haven and London.
- Calatayud, V., Navarro-Rosinés, P. & Hafellner, J. 2002.** A synopsis of *Lichenostigma* subgen. *Lichenogramma* (*Arthoniales*), with a key to the species. – Mycol. Res., **106** (10): 1230-1242.
- Candan, M. & Özdemir Türk, A. 2008.** Lichens of Malatya, Elazığ and Adıyaman provinces(Turkey). – Mycotaxon **105**: 19-22.
- Çobanoğlu, G. & Doğan, A. 2010.** Lichen Records from Tunceli Munzur Valley National Park (Turkey). – J. Bot. Plant Biol., **5**(2): 38-41.
- Çobanoğlu, G. & Yavuz M. 2007.** Lichen records from South-East Anatolia (Bingöl and Şırnak). – Oltenia, **23**: 23-26.
- Darmostuk, V.V. 2016.** The genus *Cercidospora* (Dothideales) in Ukraine. – Ukr. Bot. J., **73**(3): 262-267.
- Dobson, F.S. 2005.** An Illustrated Guide to the British and Irish Species. – Richmond Publishing Co.Ltd., Slough.
- Esslinger, T.L. 1997.** A chemosystematic revision of the brown Parmeliae. – J. Hattori Bot. Lab., **42**: 1-211.
- Galloway, D.J. & Moberg, R. 2005.** The lichen genus *Physcia* (Schreb.) Michx (*Physciaceae*: Ascomycota) in New Zealand. – Tuhiinga, **16**: 59-91.
- Giralt, M. 2001.** The lichen genera *Rinodina* und *Rinodinella* (lichenized Ascomycetes, Physciaceae) in the Iberian Peninsula. – Biblioth. Lichenol., **79**: 1-160.
- Güvenç, S., John, V. & Türk, A. 2020.** Phytogeographical analysis of the lichens and lichenicolous fungi of Turkey. – Borziana 1: 87-108.
- Hertel, H. & Leuckert, C. 2008.** *Lecidea atrobrunnea* in Europe and adjacent parts of Asia and Africa. *Lecidea atrobrunnea* in Europa und benachbarten Tielen Asiens und Afrikas. – Sauteria, **15**: 215-238.
- John, V. & Güvenç, Ş. 2023.** Additions to the checklist and bibliography of the lichens and lichenicolous fungi of Turkey II. – Arch. Lichenol., **34**: 1-47.
- John, V. & Türk, A. 2017.** A Checklist of the Lichens of Turkey. Nezahat Gökyiğit Botanik Bahçesi Yayım, İstanbul (in Turkish).
- John, V., Güvenç Ş. & Türk, A. 2020.** Additions to the checklist and bibliography of the lichens and lichenicolous fungi of Turkey. – Arch. Lichenol., **19**: 1-32.
- Karagöz, Y., Aslan A. & Yazıcı, K. 2022.** Contributions to the lichen flora of Turkey; new records from Eastern Anatolia (Van province). – Israel J. Pl. Sci., **1**: 1-11.

- Kılıçoğlu, S., Araz, N. & Devrim, H. 1986. Meydan Larousse. Büyük Lügat ve Ansiklopedi. Meydan Yayınevi, 11. Cilt, sayfa: 317, İstanbul.
- Krisai-Greilhuber, I., Chen, Y., Jabeen, S., Madrid, H., Marincowitz, S., Razaq, A., Ševčíková, H., Voglmayr, H., Yazıcı, K., Aptroot, A., Aslan, A., Boekhout, T., Borovička, J., Crous, P.W., Ilyas, S., Jami, F., Jiang, Y.L., Khalid, A.N., Kolecka, A., Konvalinková, T., Norphanphoun, C., Shaheen, S., Wang, Y., Wingfield, M.J., Wu, S.P., Wu, Y.M. & Yu, J.Y. 2017. Fungal Systematics and Evolution: FUSE 3. – *Sydowia*, **69**: 257–258.
- Mayrhofer, H. 1984. Die saxicolen Arten der flechtengattungen *Rinodina* und *Rinodinella* in der Alten Welt. – *J. Hattori Bot. Lab.*, **55**: 327–493.
- Mayrhofer, H. & Poelt, J. 1979. Die saxicolen Arten der Flechtengattung *Rinodina* in Europa. J. Cramer. – Vaduz, 186 pp.
- Mayrhofer, H., Scheidegger, C. & Sheard, J.W. 1990. *Rinodina lecanorina* and *R. luridata*, two closely related species on calciferous rocks. – *Bibl. Lichenol.*, **38**: 335–356.
- Navarro-Rosinés, P. & Hladun, N.L. 1996. Las especies saxicola-calicolas del grupo de *Caloplaca lactea* (Teloschistaceae, líquenes,) en las regiones mediterránea y medioeuropea. – *Bull. Soc. Linn. Provence*, **47**: 139–166.
- Navarro-Rosinés, P., Calatayud, V. & Hafellner, J. 2009. Contributions to a revision of the genus *Cercidospora* (Dothideales) 1. Species on *Megasporaceae*. – *Mycotaxon*, **110**: 5–25.
- Nordin, A., Savić, S. & Tibell, L. 2010. Phylogeny and taxonomy of *Aspicilia* and *Megasporaceae*. – *Mycologia*, **102** (6): 1339–1349.
- Oran, S. & Öztürk, Ş. 2007. Lichen records from Southeast and East Anatolian region (Turkey). – *J. Biol. Environ. Sci.*, **1**: 15–22.
- Oszczka, P., Yazıcı, K. & Aslan, A. 2011. Note on *Cladonia* species (Lichenized Ascomycota) from Ardahan province (Turkey). – *Acta Societatis Botanicorum Poloniae*, **80** (1): 59–62.
- Özgen, N., Tonbul, S. & Karadoğan, S. 2005. Siirt Çevresinde Kıvrımlı Yapı Elemanları, Jeomorfolojik Özellikleri ve Gelişimi. Konferans Coğrafya Sempozyumu. Mayıs 2005, İstanbul.
- Smith, C.W., Aptroot, A., Coppins, B.J., Fletcher, A., Gilbert, O.L., James, P.W., Wolseley, P.A. & Orange, A. 2009. The Lichens of Great Britain and Ireland. The British Lichen Society, London.
- Sohrabi, M., Stenroos, S., Myllys, L., Söchtling, U., Ahti, T. & Hyvönen, J. 2013. Phylogeny and taxonomy of the “manna” lichens. – *Mycol. Progress*, **12**, 231–269.
- Song, J., Liang, J.F., Mehrabi-Koushki, M., Krisai-Greilhuber, I., Ali, B., Bhatt, V.K., Cerna-Mendoza, A., Chen, B., Chen, Z.X., Chu, H.L., Corazon-Guivin, M.A., da Silva, G.A., Kese, A.D., Dima, B., Dovana, F., Farokhinejad, R., Ferisin, G., Guerrero-Abad, J.C., Guo, T., Han, L.H., Ilyas, S., Justo, A., Khalid, A.N., Khodadadi-Pourarpanahi, S., Li, T.H., Liu, C., Lorenzini, M., Lu, J.K., Mumtaz, A.S., Oehl, F., Pan, X.Y., Papp, V., Qian, W., Razaq, A., Semwal, K.C., Tang, L.Z., Tian, X.L., Vallejos-Tapullima, A., van der Merwe, N.A., Wang, S.K., Wang, C.Q., Yang, R.H., Yu, F., Zapparoli, G., Zhang, M., Antonin, V., Aptroot, A., Aslan, A., Banerjee, A., Chatterjee, S., Dirks, A.C., Ebrahimi, L., Fotouhifar, K.B., Ghosta, Y., Kalinina, L.B., Karahan, D., Liu, J., Maiti, M.K., Mookherjee, A., Nath, P.S., Panja, B., Saha, J., Ševčíková, H., Voglmayr, H., Yazıcı, K. & Haelewaters, D. 2019. Fungal Systematics and Evolution: FUSE 5. – *Sydowia*, **71**: 141–245.
- Şenkardeşler, A. 2009. *Rinodina poeltii* türünün yayılışı ve teşhisi. – *Türk liken Topluluğu Bülteni*, **7**: 5–7.
- Şenkardeşler, A. & Calpa, O. F. 2011. New lichen records from Turkey 2: *Aspicilia*, *Protoparmeliopsis*, and *Ramalina*. – *Mycotaxon*, **115**: 263–270.
- Şenkardeşler, A. & Sohrabi, M. 2011. *Aspicilia subfarinosa* the correct name for *A. substerilis*. – *Mycotaxon*, **115**: 99–106.
- Szatala, Ö. 1960. Lichenes Turciae asiaticae ab Victor Pietschmann collecti. – *Sydowia*, **14**: 312–325.
- Vondrák, J., Halıcı, M.G., Kocakaya, M. & Vondráková, O. 2012. Teloschistaceae (lichenized Ascomycetes) in Turkey. I. Some records from Turkey. – *Nova Hedwigia*, **94**: 385–396.
- Yazıcı, K. 2012. *Mycobilimbia* and *Rinodina* species new to Turkey. – *Mycotaxon*, **121**: 419–423.
- Yazıcı, K. & Aptroot, A. 2017. Three Lichen Taxa New for Turkey. – *BJPT*, **24**(1): 83–89.
- Yazıcı, K. & Aslan, A. 2016a. *Merismatium*, *Porpidia* and *Protoparmelia* spp. new for Turkey and Asia. – *Mycotaxon*, **131**: 337–343.
- Yazıcı, K. & Aslan, A. 2016b. *Aspicilia*, *Lobothallia*, and *Rhizocarpon* species new for Turkey and Asia. – *Mycotaxon*, **131**: 227–233.
- Yazıcı, K. & Aslan, A. 2021. *Acarospora scotica*, *Anema tumidulum* and *Megaspora rimisorediata* – three newly recorded lichens for Turkey. – *Österr. Z. Pilzk.*, **28**: 115–121.
- Yazıcı, K. & Aslan, A. 2022a. Lichens and lichenicolous fungi from Tunceli province in Turkey. – *Phytologia Balcanica*, **28**(2): 161–185.
- Yazıcı, K. & Aslan, A. 2022b. *Anema decipiens*, *Lecanora stenotropa* and *Rinodina polysporoides* – three new lichen records for Turkey. – *Österr. Z. Pilzk.*, **30**: 59–65.
- Yazıcı, K. & Aslan, A. 2023. *Athallia brachyspora*, *Peccania tiruncula* – two new lichen records for Turkey and Asia. – *Phytol. Balcan.*, **29**(2): 157–162.
- Yazıcı, K. & Engin, T.A. 2024. *Parabagliettoa disjuncta* and *Rinodina parvula* – two new lichen species for Türkiye and Asia. – *Österr. Z. Pilzk.*, **31**: 183–187.
- Yazıcı, K. & Etayo J. 2014. Lichenicolous fungi in Iğdır province, Turkey. – *Acta Botanica Brasiliica*, **28**(1):1–7.
- Yazıcı, K., Aptroot, A., Etayo, J., Aslan, A. & Guttova, A. 2008. Lichens from the Batman, Mardin, Osmaniye, and Sivas regions of Turkey. *Mycotaxon*, **103**: 141–144.
- Yazıcı, K., Aptroot, A., Aslan, A., Etayo, J., Spier, L. & Karagöz Y. 2010a. Lichenized and lichenicolous fungi from nine different areas in Turkey. – *Mycotaxon*, **111**:113–116.
- Yazıcı, K., Elix, J.A. & Aslan, A. 2010b. Some Parmelioid lichens new to Turkey and Asia. – *Mycotaxon*, **111**: 489–494.
- Yazıcı, K., Aptroot, A. & Aslan, A. 2010c. Three lichenized fungi new to Turkey and the Middle East. – *Mycotaxon*, **111**: 127–130.
- Yazıcı, K., Aptroot, A. & Aslan, A., Vitikainen, O., Piercey-Normore, M.D. 2011a. Lichen biota of Ardahan province (Turkey). – *Mycotaxon*, **116**: 480.
- Yazıcı, K., Aptroot, A. & Aslan, A. 2011b. *Lecanora wrightiana* and *Rhizocarpon inimicum*, rare lichens new to Turkey and the Middle East. – *Mycotaxon*, **117**: 145–148.
- Yazıcı, K., Etayo, J. & Aslan, A. 2011c. A Note About Lichenicolous Fungi From Ardahan (Turkey). – *Cryptogamie Mycologie*, **32**(4): 429–437.
- Yazıcı, K., Aptroot, A. & Aslan, A. 2012. *Candelariella*, *Ochrolechia*, *Physcia*, and *Xanthoria* species new to Turkey. – *Mycotaxon*, **119**: 149–156.
- Yazıcı, K., Aptroot, A. & Aslan, A. 2013. The lichen biota of Iğdır province (Turkey). *Mycotaxon* link page, **123**: 492.

- Yazıcı, K., Aptroot, A. & Karahan, D. 2018.** New lichen records of *Acarospora* and *Lecidea* species for Turkey and Asia. – Österr. Z. Pilzk., **27**: 5–10.
- Yazıcı, K., Karahan, D. & Aslan, A. 2019.** *Cladonia uncialis* subsp. *biuncialis*, *Scythioria phlogina* and *Sticta limbata* – three new lichen records for Turkey and Asia. – Österr. Z. Pilzk., **28**: 1–7.
- Yazıcı, K., Aslan, A., Aptroot, A., Etayo, J., Karahan D. & Sipman, H. 2020a.** Lichens and lichenicolous fungi from Bitlis province in Turkey. – Lindbergia, **43**:1-12.
- Yazıcı, K., Aslan, A., Karahan, D., Aptroot, A. & Sipman, H. 2020b.** Lichens and lichenicolous fungi from Muş province in Turkey. – Acta Botanica Hungarica, **62**(3-4): 435–452.
- Yazıcı, K., Etayo, J. & Aslan, A. 2021.** *Kalcbrenneriella cyanescens* and *Rhizocarpon ochrolechia* – two new lichenicolous fungi records for Turkey and Asia. – Phytologia Balcanica, **27**(3): 155 – 159.
- Yazıcı, K., Aslan, A. & Etayo, J. 2022.** Lichens and lichenicolous fungi from Bingöl province in Turkey. – Phytol. Balcan., **28** (1): 11-38.
- Yazıcı, K., Aptroot, A. & Aslan, A. 2023.** *Circinaria scabridula*, *Sarcogyne arenosa* and *Sarcogyne algoviae* – Three rare new lichen records for Turkey and Asia. – Österr. Z. Pilzk., **31**: 73–79.
- Zakeri, Z., Yazıcı, K. & Aptroot, A. 2021.** *Lecidea solediatrobrunnea* sp. nov. from Turkey, the first saxicolous true *Lecidea* with soredia. – Herzogia, **34**: 55-61. URL-1:chrome-extension://efaidnbmnnnib-pcajpcglclefindmkaj/https://www.ogm.gov.tr/tr/e-kutuphane-sitesi/Yayinlar/Orman%20Atlasi.pdf