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Checklist of the lichens of Israel

Abstract

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This checklist of the lichens of Israel (including the Sinai Peninsula) is based on a screening of relevant literature and on the analysis of original material; it includes 234 infrageneric taxa. The following taxa were not reported from Israel in the previous literature: *Bacidia naegelii*, *Clauzadea chondrodes*, *Collema coccophorum*, *C. flaccidum*, *Dermatocarpon waltheckii*, *Hyperphyscia adglutinata*, *Lecanora chlarotera*, *Lecidea lurida*, *Leptogium corniculatum*, *Ochrolechia pallescens*, *Peltula euploca*, *Physcia semipinnata*, *Placidiopsis dalmatica*, *Teloschistes villosus* and *Thelenella hassei*.

Introduction

Lichenology in Israel is relatively recent, the first relevant paper dating back to 1936 (Reichert 1936). I. Reichert was the first leading plant pathologist of what was at that time Palestine. After his retirement, he donated his unique lichen collection, comprising specimens from Lebanon, Syria, Jordan, Egypt and Israel, together with his lichenological library, to the Department of Botany of the Tel-Aviv University. The library included the classical works by E. Acharius, Abbé Hue, Th. Fries, A. von Krempelhuber, W. Nylander, A. Zahlbruckner and others. These served as basis for the lichenological studies by M. Galun and her students. The exploration of the lichen flora of Israel, and the publication of the book: "The lichens of Israel" (Galun 1970), were supported by The Academy of Science and Humanities, encouraged by the late Professor Aharon Katzir, then president of the Academy.

This checklist of the lichens of Israel (including the Sinai Peninsula) is based on a screening of relevant literature and on the analysis of original material; it includes 234 infrageneric taxa. The following taxa were not reported from Israel in the previous literature: *Bacidia naegelii*, *Clauzadea chondrodes*, *Collema coccophorum*, *C. flaccidum*, *Dermatocarpon waltheckii*, *Hyperphyscia adglutinata*, *Lecanora chlarotera*, *Lecidea lurida*, *Leptogium corniculatum*, *Ochrolechia pallescens*, *Peltula euploca*, *Physcia semipinnata*, *Placidiopsis dalmatica*, *Teloschistes villosus* and *Thelenella hassei*.

The lichen flora of Israel mainly consists of crustose, epi- and endogenous species which make a comprehensive survey difficult. The catalogue provided here is a first-approximation checklist compiled within the project of the OPTIMA Commission of Lichens for a general biodiversity inventory of the lichens of the Mediterranean area. Our

list is certainly not exhaustive, and in the future more lichen species will be discovered. Furthermore, several critical or poorly-known taxa are listed, which are in urgent need of revision. Nevertheless, even at this stage the list provides an example of a relatively extensive and unique flora of a semi-arid and arid region, centered between three continents of the globe.

All the specimens are preserved in The Reichert Lichen Herbarium, Tel-Aviv University, except for some of them, and in particular for those of *Bacidia naegeli*, *Caloplaca holocarpa*, *Hyperphyscia adglutinata*, *Lecanora chlarotera* and *Physcia semipinnata*, new to Israel, that were collected and identified by M. R. D. Seaward and are preserved at the University of Bradford. For each taxon the substrate, localities, distribution and references are indicated. References are listed in alphabetical order. The phytogeographical distribution within Israel is according to Zohary & Feinbrun-Dothan (Flora Palestina 1966). Nomenclature mostly follows Nimis (1993). Authors' abbreviations are according Brummitt & Powell (1994).

Floristic List

Acarospora areolata Reichert & Galun

On calcareous stones: Central Negev, Judean Desert, Dead Sea area, Sinai; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960).

Acarospora bornmuelleri J. Steiner

On calcareous and basalt rocks: Upper and Lower Galilee, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972).

Acarospora murorum A. Massal.

On fine sandy soil of shaded northern slopes: Central Negev; Saharo-Arabian territory. (Galun 1970).

Acarospora reagens Zahlbr. f. *radicans* (Nyl.) H. Magn.

On fine sandy soil and loess: Central and Western Negev, Judean Desert; Saharo-Arabian territory. (Galun 1970, Galun & Reichert 1960, Magnusson 1929, Müller Argoviensis 1884).

Acrocordia conoidea (Fr.) Körb.

On oolitic limestone: Mt. Carmel; Mediterranean territory. (Galun 1970).

Anaptychia ciliaris (L.) A. Massal.

On basalt rocks and trees: Upper Galilee, Golan Heights and Mt. Hermon; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

Anapyrenium aegyptiacum Müll. Arg.

On calcareous rocks: Northern Sinai; Saharo-Arabian territory. (Galun & Garty 1972).

Arthonia calcicola Nyl.

On limestone, rare: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Insarov & Insarova 1995).

Arthonia galactites (DC.) Dufour

On *Tamarix* cf. *gallica*: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Insarov & Insarova 1995, Herb. Seaward).

***Arthonia melanophthalma* Dufour**

On *Ceratonia siliqua*: Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965).

***Aspicilia contorta* (Hoffm.) Kremp. = *Lecanora contorta* (Hoffm.) Stein**

On calcareous rocks, limestone: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

***Aspicilia desertorum* (Kremp.) Mereschk. = *Lecanora desertorum* Kremp.**

On calcareous stones, flinty gravel: Upper Jordan Valley, Judean Desert, Northern, Central and Western Negev; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Barreno 1991, Galun 1970).

***Aspicilia farinosa* (Flörke) Arnold = *Lecanora farinosa* (Flörke) Nyl.**

On calcareous stones, limestone: Judean Desert, Northern, Central and Western Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972).

***Aspicilia hoffmannii* (Ach.) Flagey = *Lecanora hoffmannii* (Ach.) Müll. Arg.**

On flint, limestone: Northern, Central and Western Negev; Irano-Turanian and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995).

***Aspicilia microspora* (Arnold) Hue = *Lecanora microspora* (Arnold) Zahlbr.**

On calcareous rocks: Upper and Lower Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

***Aspicilia radiosa* (Hoffm.) Poelt & Leuckert = *Lecanora radiosa* (Hoffm.) Schaer. var. *subcircinata* (Nyl.) Zahlbr.**

On calcareous rocks, basalt: Mt. Hermon, Upper and Lower Galilee, Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970, Galun & Lavee 1966).

***Bacidia naegelii* (Hepp) Zahlbr.**

On *Pistacia atlantica*: Lower Galilee, Judean Mountains; Mediterranean territory. (Herb. Seaward).

***Bacidina phacodes* (Körb.) Vezda = *Bacidia albescens* (Kremp.) Zwackh**

On bark of *Quercus calliprinos* and *Pinus halepensis*: Upper Galilee, Judean Mountains; Mediterranean territory. (Galun 1970).

***Buellia epigea* (Pers.) Tuck.**

On loess: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun & Reichert 1960).

***Buellia epipolia* (Ach.) Mong. = *Diplotomma epipolium* (Ach.) Arnold**

On flint, calcareous rocks, common on dolomitic limestone, and occasionally found on limestone and cryptocrystalline limestone: Central and Southern Negev, North and Central Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995, Herb. Seaward).

Buellia solediosa Reichert & Galun

On flint, flinty limestone, calcareous rocks: Samaria, Northern, Western and Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Herb. Seaward)

Buellia subalbula (Nyl.) Müll. Arg. var. *fuscocapitellata* I. M. Lamb

On calcareous rocks, flint, limestone, dolomite, dolomitic limestone and micritic dolomitic limestone: Northern, Central and Southern Negev, Northern and Central Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

Buellia venusta (Körb.) Lettau

On calcareous stones, soft calcareous rocks, flint, dolomite, limestone, dolomitic limestone and micritic dolomitic limestone: Judean Mountains, Northern, Central and Southern Negev, North and Central Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

Buellia zoharyi Galun in Poelt & Sulzer

On loess: Western and Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Barreno 1991, Galun 1970, Galun & Garty 1972, Insarov & Insarova 1995, Poelt & Sulzer 1974, Herb. Seaward).

Caloplaca agardhiana (A. Massal.) Clauzade & Cl. Roux f. *albopruinosa* J. Steiner

Rare on calcareous stones: Sinai; Saharo-Arabian territory. (Galun & Garty 1972).

Caloplaca alnetorum Giralt, Nimis & Poelt

On *Pistacia palaestina* and *Quercus calliprinos*: Upper Galilee; Mediterranean territory. (Alon & Galun 1971).

Caloplaca alociza (Massal.) Migula

Endolithic in calcareous rocks and stones: Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Kushnir & Galun 1977, Garty & Binyamini 1990).

Caloplaca arenaria (Pers.) Müll. Arg. = *Caloplaca lamprocheila* Flagey

On limestone, dolomitic limestone and cryptocrystalline limestone, basalt, calcareous rocks: Upper and Lower Galilee, Samaria, Central Coastal Plain (Coast of Carmel and Sharon Plain), Upper Jordan Valley, Central Negev; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Alon & Galun 1971, Insarov & Insarova 1995).

Caloplaca aurantia (Pers.) J. Steiner

On calcareous rocks, sandstone, limestone, dolomitic limestone, micritic dolomitic limestone and cryptocrystalline limestone: all over Israel and Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Galun & Reichert 1965, Garty 1988, Garty & Binyamini 1990, Insarov & Insarova 1995).

Caloplaca aurantiomurorum (Flagey) Zahlbr.

On calcareous rock: Upper Galilee, Mt. Carmel; Mediterranean territory. (Alon & Galun 1971).

Caloplaca bilewskii de Lesd.

On limestone tombstone: Edsraelon Valley; Mediterranean territory. (Alon & Galun 1971, Bouly de Lesdain 1958).

Caloplaca carphinea (Fr.) Jatta

On calcareous and siliceous rocks: Samaria; Mediterranean territory. (Alon & Galun 1971, Galun 1970).

Caloplaca cerina (Hedw.) Th. Fr.

On basalt and *Olea europaea*: Upper and Lower Galilee, Edsraelon Valley; Mediterranean territory. (Alon & Galun 1971).

Caloplaca circumalbata (Delile) Wunder v. *circumalbata* = *C. aegyptiaca* (Müll. Arg.) J. Steiner var. *circinans* J. Steiner, *C. interveniens* (Müll. Arg.) Zahlbr.

On calcareous stones, limestone, dolomite, dolomitic limestone and cryptocrystalline limestone: Western and Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995, Wunder 1974).

Caloplaca circumalbata (Delile) Wunder v. *bicolor* (Müll. Arg.) Wunder = *Blastenia rejecta* Th. Fr. var. *bicolor* (Müll. Arg.) Zahlbr.

On calcareous rocks, dolomite, marly dolomite, limestone and dolomitic limestone: Northern and Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Galun & Garty 1972, Insarov & Insarova 1995, Wunder 1974).

Caloplaca cirrochroa (Ach.) Th. Fr. = *C. obliterans auct. israel., non* (Nyl.) Blomb. & Forssell

On basalt: Lower Galilee and Upper Jordan Valley; Mediterranean territory. (Alon & Galun 1971).

Caloplaca citrina (Hoffm.) Th. Fr.

On flint, calcareous rocks, wall mortar, asbestos and wooden roofs and among mosses and *Squamarina crassa* squamules: Upper and Lower Galilee, Samaria, Mt. Carmel, Central Coastal Plain (Sharon Plain) and Foothills of Judea (Shefela), Northern Negev, North Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Galun & Garty 1972, Garty & Binyamini 1990, Herb. Seaward).

Caloplaca conglomerata (Bagl.) Jatta

On basalt: Lower Galilee, Upper Jordan Valley; Mediterranean and Irano-Turanian territories. (Alon & Galun 1971, Galun 1970).

Caloplaca crenularia (With.) J. R. Laundon

On basalt: Upper Jordan Valley and Golan Heights; Mediterranean and Irano-Turanian territories. (Egea & Llimona 1991, Galun 1970).

Caloplaca dalmatica (A. Massal.) Zahlbr.

On calcareous rocks: Lower Galilee, Samaria, Judean Mountains; Mediterranean territory. (Alon & Galun 1971). Note: closely related to *C. velana*.

Caloplaca ehrenbergii (Müll. Arg.) Zahlbr.

On flint, limestone, partly silicified limestone and cryptocrystalline limestone: Western and Central Negev, Sinai; Saharo-Arabian and Irano-Turanian territories. (Alon &

Galun 1971, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995, *Herb. Seaward*).

***Caloplaca erythrina* (Müll. Arg.) Zahlbr. var. *pulvinata* (Müll. Arg.) Zahlbr.**

On calcareous rocks, dolomite, limestone, dolomitic limestone, micric dolomitic limestone, marly dolomite, thin layers of soil on limestone: Central Negev, Sinai; Saharo-Arabian and Irano-Turanian territories. (Galun 1970, Galun & Garty 1972, Insarov & Insarova 1995).

***Caloplaca erythrocarpa* (Pers.) Zwackh = *C. lallavei* (Clem.) Flagey**

On calcareous rocks and dolomite: Golan Heights, Upper Galilee and Northern Coastal Plain (Coastal Galilee), Foothills of Judea (Shefela), Judean Mountains, North Sinai; Mediterranean and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Galun & Garty 1972, Galun & Lavee 1966).

***Caloplaca flageyana* Zahlbr.**

On dolomite, limestone, dolomitic limestone and thin layers of soil on dolomite: Northern and Central Negev; Saharo-Arabian and Irano-Turanian territories. (Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995).

***Caloplaca flavovirescens* (Wulfen) Dalla Torre & Sarnth.**

On dolomite and calcareous rocks: Upper Galilee, Mt. Carmel and Judean Mountains; Mediterranean territory. (Alon & Galun 1971).

***Caloplaca gilvella* Zahlbr.**

On calcareous rocks: Sinai; Saharo-Arabian territory. (Galun & Garty 1972).

***Caloplaca haematites* (St.-Amans) Zw.**

On *Olea europaea*: Esdraelon Valley; Mediterranean territory. (Galun 1970).

***Caloplaca holocarpa* (Ach.) Wade**

Epiphytic on a wide variety of trees and shrubs, calcareous rocks, cement roofing tiles: All over Israel; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun & Garty 1972, *Herb. Seaward*).

***Caloplaca lactea* (A. Massal.) Zahlbr.**

On calcareous rocks, dolomite, limestone: Upper Galilee, Judean Mountains, Central Coastal (Sharon) Plain, Central Negev, Sinai; Mediterranean and Irano-Turanian territories. (Alon & Galun 1971, Galun & Garty 1972, Garty & Binyamini 1990).

***Caloplaca latzelii* (Servit) Clauzade & Cl. Roux**

On calcareous rocks: Samaria, Judean Mountains, Lower Galilee, Upper Jordan Valley; Mediterranean territory. (Aron & Galun 1971, Galun 1970, Navarro-Rosines & Hladun 1992).

***Caloplaca luteoalba* (Turner) Th. Fr.**

On *Acacia tortilis* and *A. spirocarpa*: Central Negev; Saharo-Arabian and Irano-Turanian territories. (Alon & Galun 1971, Galun 1970, Galun & Reichert 1960).

***Caloplaca negevensis* Reichert & Galun**

On dolomite and pottery: Central Negev; Saharo-Arabian and Irano-Turanian territories. (Alon & Galun 1971, Galun 1970, Galun & Reichert 1960).

***Caloplaca ochracea* (Schaer.) Flagey**

On calcareous rocks, oolitic limestone and dolomite: Upper Galilee, Mt. Carmel and Judean Mountains; Mediterranean territory. (Alon & Galun 1971, Galun 1970).

***Caloplaca pyracea* (Ach.) Th. Fr. var. *leucostigma* Erichsen**

On branches of *Olea europaea*: Foothills of Judea (Shefela); Mediterranean territory. (Alon & Galun 1971).

***Caloplaca pyrrhrella* (Nyl.) H. Olivier**

On dolomite, limestone: Central Negev; Saharo-Arabian and Irano-Turanian territories. (Galun & Reichert 1960).

***Caloplaca saxicola* (Hoffm.) Nordin = *C. murorum* (Hoffm.) Th. Fr.**

On calcareous rocks, dolomite, basalt and wall cement: Upper and Lower Galilee, Southern Coastal Plain (Philistean Plain), Foothills of Judea (Shefela), Judean Mountain; Mediterranean territory. (Alon & Galun 1971, Galun 1970).

***Caloplaca teicholyta* (Ach.) J. Steiner**

On calcareous rocks, oolitic limestone and dolomite, basalt: Upper Galilee and Judean Mountains, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun & Garty 1972, Herb. Seaward).

***Caloplaca variabilis* (Pers.) Müll. Arg.**

On calcareous rocks and basalt: Upper and Lower Galilee, Mt. Carmel, Edsraelon Valley, Judean Mountains and Foothills of Judea (Shefela), Central Negev; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Alon & Galun 1971, Galun 1970, Wunder 1974).

***Caloplaca velana* (A. Massal.) Du Rietz**

On calcareous rocks and basalt: Upper and Lower Galilee, Edsraelon Valley, Judean Mountains and Foothills of Judea (Shefela); Mediterranean territory. (Alon & Galun 1971, Galun 1970).

***Caloplaca velana* (A. Massal.) Du Rietz v. *schaereri* (Arnold) Clauzade & Cl. Roux**

On calcareous rocks: Upper Galilee, Samaria, Judean Mountains; Mediterranean territory. (Alon & Galun 1971).

***Caloplaca vitellinula* (Nyl.) H. Olivier**

On crystalline limestone: Northern Coastal Plain (Coastal Galilee), Foothills of Judea (Shefela); Mediterranean territory. (Alon & Galun 1971).

***Caloplaca xantholyta* (Nyl.) Jatta**

On calcareous rocks: Upper Galilee; Mediterranean territory. (Alon & Galun 1971).

***Candelariella aurella* (Hoffm.) Zahlbr.**

On calcareous rocks, cement roofing tiles: Southern Coastal Plain (Philistean Plain), Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun & Garty 1972, Garty 1988, Herb. Seaward).

***Candelariella medians* (Nyl.) A. L. Sm.**

On calcareous rocks: Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

Candelariella minuta Reichert & Galun

On limestone, soft white dolomite, dolomitic limestone, micritic dolomitic limestone and cryptocrystalline limestone, calcareous rocks, flint: Northern and Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

Candelariella oleaginescens Rondon

On conglomerate: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun & Garty 1972).

Candelariella vitellina (Hoffm.) Müll. Arg.

On basalt (usually on cyanobacteria or on fragments of cyanolichens): Upper and Lower Galilee, Upper Jordan Valley and Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

Catapyrenium contumescens (Nyl.) Breuss

Israel, without indication of locality. (Breuss 1990).

Catapyrenium squamulosum (Ach.) Breuss = *Dermatocarpon hepaticum* auct., non (Ach.) Th. Fr.

On loess, soil in fissures and in-between crevices of calcareous rocks, epiphytic on mosses and other lichens, plaster of a wall: Upper and Lower Galilee, Mt. Carmel, Coast of Carmel, Judean Mountains, Judean Desert, Northern, Central and Southern Negev, Dead Sea area, Arava Valley, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972). Note: the following records of *Dermatocarpon hepaticum* f. *nigratum* (Müll. Arg.) Zahlbr. need to be checked against the recent monographic treatment by Breuss (1990): on soil in fissures of ruins: Judean mountains, Dead Sea area; Central Negev; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Reichert 1960, Herb. Seaward).

Catillaria nigroclavata (Nyl.) Schuler = *C. chalybeia* (Borrer) A. Massal. f. *ilicis* (A. Massal.) Vain.

On *Olea europaea*: Mt. Carmel, Judean Mountains; Mediterranean territory. (Galun 1970).

Catillaria piciloides Zahlbr.

On calcareous rocks, oolitic limestone: Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965). Note: according to Kilias (1981) this poorly known taxon should be included into *Bacidia* s.lat.

Catillaria reichertiana Galun

On calcareous rocks, basalt: Upper Galilee, Mt. Carmel and Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian and territories. (Galun 1967a, Galun 1970, Galun & Garty 1972, Kushnir & Galun 1977).

Cladonia convoluta (Lam.) Anders

On calcareous rocks, calcareous limestone, basalt, soil, mossy soil, dry branches: Golan Heights, Upper Galilee, Northern Coastal Plain (Coastal Galilee), Mt. Carmel, Judean Mountains; Mediterranean territory. (Galun 1970, Galun & Reichert 1965).

***Cladonia pocillum* (Ach.) O. J. Rich.**

On calcareous rocks, rock fissures, basalt, soil, mosses, mossy soil: Upper Galilee, Northern Coastal Plain (Coastal Galilee), Mt. Carmel, Judean Mountains, Foothills of Judea (Shefela); Mediterranean territory. (Galun 1970, Galun & Reichert 1965).

***Cladonia rangiformis* Hoffm.**

On mossy soil: Upper Galilee; Mediterranean territory. (Galun 1970).

***Clauzadea chondrodes* (A. Massal.) Clauzade & Cl. Roux = *Protoblastenia chondrodes* (A. Massal.) Zahlbr.**

On calcareous rocks: Southern Coastal Plain (Philistean plain); Mediterranean territory.

***Clauzadea immersa* (Weber) Hafellner & Bellem. = *Lecidea immersa* (Weber) Ach., *Protoblastenia immersa* (Weber) J. Steiner**

On calcareous rocks: Mt. Carmel, Central Negev (rare on limestone); Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Garty 1988, Garty & Binyamini 1990, Insarov & Insarova 1995).

***Clauzadea metzleri* (Körb.) D. Hawksw. = *Protoblastenia metzleri* (Körb.) D. Hawksw.**

Endolithic in calcareous rocks and stones: Mt. Carmel; Mediterranean territory. (Kushnir & Galun 1977).

***Collema coccophorum* Tuck.**

On loess: Northern Negev; Irano-Turanian territory.

***Collema crispum* (Huds.) Weber ex F. H. Wigg.**

On sandy soil, calcareous rocks: Upper Galilee, Dead Sea area, Northern Negev, Central Negev, Arava Valley, Northern Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Marton & Galun 1981).

***Collema crispum* (Huds.) Weber ex F. H. Wigg. var. *metzleri* (Arnold) Degel.**

On calcareous rocks and on fine sand: Upper Galilee, Judean mountains; Mediterranean territory. (Degelius 1954).

***Collema cristatum* (L.) Weber ex F. H. Wigg.**

On calcareous rocks, limestone, on soil and among mosses: Upper Galilee, Mt. Carmel, Upper Jordan Valley, Judean Mountains, Judean Desert; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Degelius 1954, 1974, Galun 1970, Galun & Reichert 1960).

***Collema flaccidum* (Ach.) Ach.**

On soil: Upper Galilee; Mediterranean territory.

***Collema fuscovirens* (With.) J.R. Laundon = *C. tunaeforme* (Ach.) Ach.**

On calcareous rocks, mosses, mossy surfaces: Upper Galilee, Mt. Carmel, Judean Mountains; Mediterranean territory. (Galun 1970).

***Collema nigrescens* (Huds.) DC.**

On bark of *Olea europaea*: Upper Galilee; Mediterranean territory. (Galun 1970).

Collema polycarpon* Hoffm. subsp. *polycarpon

On basalt: Lower Galilee; Mediterranean territory. (Galun 1970).

***Collema polycarpon* Hoffm. subsp. *coreyrense* (Arnold) Pisut**

On calcareous rocks, soil and mossy soil: Upper Galilee, Mt. Carmel, Judean Mountains; Mediterranean territory. (Degelius 1954, Galun 1970).

***Collema tenax* (Sw.) Ach.**

On loess: Central and Southern Negev, Arava Valley, Dead Sea area; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Degelius 1954, Marton & Galun 1981).

***Collema tenax* (Sw.) Ach. var. *vulgare* (Schaer.) Degel.**

On loess, fissures of calcareous rocks and among mosses, plaster of ruins, soil, thin layer of soil on limestone and dolomitic limestone: Upper Galilee, Mt. Carmel, Central and Western Negev, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Galun & Reichert 1965, Insarov & Insarova 1995).

***Dermatocarpon convexum* Reichert & Galun**

On calcareous rocks, limestone: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995).

***Dermatocarpon desertorum* Tomin**

On thin layers of loess accumulating in fissures and depressions of Nubian sandstone, micritic dolomitic limestone: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995).

***Dermatocarpon miniatum* (L.) Mann**

On basalt (common), calcareous rocks (rare): Golan Heights, Upper Galilee, Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Dermatocarpon subcrustosum* (Nyl.) Zahlbr.**

On calcareous rocks: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

***Dermatocarpon walthekii* Blomb. & Forssell**

On calcareous rocks: Northern Negev; Irano-Turanian territory.

***Diploicia canescens* (Dicks.) A. Massal.**

On flint, oolitic limestone, calcareous rocks, *Olea europaea*, *Crataegus azarolus*, *Pistacia palaestina*, *Pinus halepensis*, *Quercus calliprinos*, *Rhamnus palaestina*, and *Ficus* sp.: Samaria, Judea (Shefela), Upper Galilee, Upper Jordan Valley, Western and Central Negev, Sinai; Mediterranean and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995, Reichert & Galun 1958).

***Diploschistes actinostomus* Zahlbr.**

On basalt: Upper and Lower Galilee, Esdraelon Valley; Mediterranean territory. (Egea & Llimona 1991, Galun 1970, Lumbsch 1989).

***Diploschistes caesioplumbeus* (Nyl.) Vain.**

Israel, without indication of locality. (Lumbsch 1989).

Diploschistes candidissimus (Kremp.) Zahlbr. = *D. calcareus* J. Steiner, *D. tenuis* Reichert & Galun

On calcareous rocks, limestone, crystalline limestone, micritic dolomitic limestone: Upper Galilee, Mt. Carmel, Foothills of Judea (Shefela), Judean Mountains, Western and Central and Southern Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995, Lumbsch 1989).

Diploschistes diacapsis (Ach.) Lumbsch = *D. steppicus* Reichert

On remains of *Poa bulbosa*, *Carex* and other Gramineae species and on loess and gypsous and calcareous soil: Northern, Central and Southern Negev, Judean Desert, Sinai; Irano-Turanian and Saharo-Arabian territories. (Barreno 1991, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Lumbsch 1989, Reichert 1940, Herb. Seaward).

Diploschistes muscorum (Scop.) R.Sant. = *D. bryophilus* (Ehrh.) Zahlbr.

On calcareous rocks, in shaded crevices, on mosses and on *Cladonia pocillum* squamules: Upper Galilee, Mt. Carmel, Judean Mountains; Mediterranean territory. (Galun 1970).

Diploschistes ocellatus (Vill.) Norman

On calcareous rocks, limestone, travertine: Upper Galilee, Dan Valley, Judean Mountains; Mediterranean territory. (Galun 1970, Lumbsch 1989).

Diploschistes scruposus (Schreb.) Norman

On basalt: Upper Galilee, Judean Desert; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970).

Dirina ceratoniae (Ach.) Fr.

On *Quercus calliprinos*, *Ceratonia siliqua*, *Olea europaea*, *Rhamnus* sp: Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965, Reichert & A.-Herchenzon 1946).

Dirina massiliensis Durieu & Mont. = *D. repanda* Fr.

On calcareous rock: Mt. Carmel; Mediterranean territory. (Tehler 1983).

Evernia prunastri (L.) Ach.

On *Quercus calliprinos*, *Quercus* sp., *Rhamnus palaestina*, *Rhamnus* sp: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

Fulgensia desertorum (Tomin) Poelt

On calcareous rock, soil: Northern and Central Sinai; Saharo-Arabian territory. (Galun & Garty 1972).

Fulgensia fulgens (Sw.) Elenkin

On loess, calcareous rocks, soil, mossy soil: Upper Galilee, Central Negev, Dead Sea area; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Lavee 1966, Galun & Reichert 1960).

Fulgensia fulgida (Nyl.) Szatala

On loess, calcareous rocks, soil: Upper Galilee, Mt. Carmel, Samaria, Judean Mountains; Mediterranean territory. (Galun 1970).

***Fulgensia subbracteata* (Nyl.) Poelt**

On mossy soil, oolitic limestone, calcareous rock, soil: Lower Galilee, Mt. Carmel, Judean Mountains; Mediterranean territory. (Galun 1970).

***Gloeoheppia erosa* (J. Steiner) K. Marton = *Peltula impressula* (H. Magn.) K. Marton**

On loess and on marlaceous soil: Dead Sea area, Arava Valley; Sudanian penetration territory. (Henssen 1995, Marton & Galun 1981).

***Gloeheppia turgida* (Ach.) Gyeln.**

On marlaceous soil: Central Negev, Dead Sea area; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Egea 1989, Henssen 1995, Marton & Galun 1981).

***Gonohymenia algerica* J. Steiner**

On alluvial and aeolian marlaceous soil, crevices of soft calcareous rocks: Arava Valley; Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981).

***Gonohymenia collemoides* K. Marton & Galun**

On marlaceous soil: Southern Negev, Dead Sea area, Arava Valley; Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981).

***Gonohymenia mesopotamica* J. Steiner**

On basalt: Upper Jordan Valley; Mediterranean territory. (Galun 1967b, Galun 1970).

***Gonohymenia sinaica* (Galun & K. Marton) Moreno & Egea**

On thin layer of alluvial and aeolian soil on calcareous rocks, calcareous rocks, sand, plaster of an ancient wall; Dead Sea area, Arava Valley, Sinai; Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972, Galun & Marton 1970, Marton & Galun 1981, Moreno & Egea 1992).

***Gonohymenia sodomensis* K. Marton & Galun**

On alluvial and aeolian marlaceous soil: Dead Sea area, Arava Valley, S. W. Sinai; Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981).

***Heppia despreauxii* (Mont.) Tuck. = *Heppia paulina* K. Marton**

On marlaceous soil: Dead Sea area. Sudanian penetration territory. (Henssen 1994, Marton & Galun 1981).

***Heppia echinulata* K. Marton & Galun**

On marlaceous soil: Dead Sea area, Arava Valley; Sudanian penetration territory. (Henssen 1994, Marton & Galun 1970, Marton & Galun 1981).

***Hyperphyscia adglutinata* (Flörke) H. Mayrhofer & Poelt**

On *Pistacia atlantica*: Lower Galilee; Mediterranean territory. (Herb. Seaward).

***Lecanactis grumulosa* (Dufour) Fr. = *Opegrapha grumulosa* Dufour**

On oolitic limestone: Mt. Carmel; Mediterranean territory. (Galun 1970).

***Lecania erysibe* (Ach.) Mudd**

On calcareous rocks, cement walls: Upper Galilee; Mediterranean territory. (Galun 1970).

***Lecania erysibe* (Ach.) Mudd var. *pinguiscula* Müll. Arg.**

On calcareous rocks: Sinai; Saharo-Arabian territory. (Galun & Garty 1972).

***Lecania koerberiana* Lahm.**

On *Olea europaea*: Judean Mountains; Mediterranean territory. (Galun 1970).

***Lecania nylanderiana* A. Massal.**

On soft calcareous rocks, cement walls: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

***Lecania subcaesia* (Nyl.) Szatala**

On limestone, dolomite and dolomitic limestone, calcareous rocks: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Insarov & Insarova 1995).

***Lecania turicensis* (Hepp) Müll. Arg.**

On limestone, dolomite and dolomitic limestone, calcareous rocks: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Insarov & Insarova 1995, Herb. Seaward).

***Lecanora bolcana* (Pollini) Poelt**

On basalt, mossy soil in basalt foulders and crevices: Golan Heights, Upper and Lower Galilee, Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Lecanora chlarotera* Nyl.**

On *Bougainvillea*: Southern Coastal Plain (Philistean Plain); Mediterranean territory. (Herb. Seaward).

***Lecanora crenulata* Hook.**

On calcareous rocks, limestone, dolomitic limestone, dolomitic grindstone, micritic dolomitic limestone, cryptocrystalline limestone: Northern, Central and Western Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

***Lecanora dispersa* (Pers.) Sommerf. f. *dissipata* (Nyl.) de Lesd.**

Israel, without indication of locality. (Garty 1988).

***Lecanora gangaleoides* Nyl.**

On basalt: Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Lecanora graeca* J. Steiner**

On calcareous rocks: Judean Mountains; Mediterranean territory. (Galun 1970).

***Lecanora hagenii* (Ach.) Ach.**

On *Olea europaea*, smooth barks, young twigs: Upper Galilee, Edsraelon Valley, Judean Mountains; Mediterranean territory. (Galun 1970).

***Lecanora muralis* (Schreb.) Rabenh.**

On basalt, quarzolite, quarzolithic dolomite, calcareous rocks: Upper and Lower Galilee, Upper Jordan Valley, Samaria; Mediterranean territory. (Egea & Llimona 1991, Galun 1970, Galun & Lavee 1966).

***Lecanora negevensis* Reichert & Galun**

On lithographic stones: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun & Reichert 1960).

***Lecanora oleae* Reichert & Galun**

On *Olea europaea*, *Quercus calliprinos*, *Ceratonia siliqua*; Mt. Hermon: Upper Galilee, Mt. Carmel, Foothills of Judea (Shefela), Yizrael Valley Edsraelon Valley, Judean Mountains; Mediterranean territory. (Galun 1970, Galun & Reichert 1965, Reichert & Galun 1958).

***Lecanora pruinosa* Chaub.**

On calcareous rocks, oolitic limestone, lithographic stone: Upper and Lower Galilee, Mt. Carmel, Coast of Carmel (Northern Coastal Plain), Foothills of Judea (Shefela), Judean Mountains, Central Negev; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Reichert 1965, Garty & Binyamini 1990).

***Lecanora scrupulosa* Ach.**

On *Quercus calliprinos*: Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965).

***Lecanora subplanata* Nyl.**

On basalt: Golan Heights, Upper and Lower Galilee, Edsraelon Valley; Mediterranean territory. (Galun 1970).

***Lecanora subrugosa* Nyl.**

On *Olea europaea*: Judean Mountains; Mediterranean territory. (Galun 1970).

***Lecanora sulphurea* (Hoffm.) Ach.**

Israel, without locality. (Egea & Llimona 1991).

***Lecidea algeriensis* (Flagey) Zahlbr.**

On basalt: Upper Galilee; Mediterranean territory. (Galun 1970).

***Lecidea lurida* Ach.**

On soil in rock crevices: Judean Mountains; Mediterranean, and Irano-Turanian territories.

***Lecidella carpathica* Körb.**

Israel, without locality (Egea & Llimona 1991).

***Lecidella elaeochroma* (Ach.) Haszl. = *Lecidea olivacea* auct.**

On *Olea europaea*: Upper and Lower Galilee, Judean Mountains; Mediterranean territory. (Galun 1970).

***Lecidella elaeochromoides* (Nyl.) Knoph & Hertel**

Israel, without locality. (Egea & Llimona 1991).

***Lecidella euphorea* (Flörke) Hertel**

On *Quercus calliprinos*, *Olea europaea*: Upper Galilee, Mt. Carmel, Samaria, Judean Mountain; Mediterranean territory. (Galun 1970).

***Leptogium corniculatum* (Hoffm.) Minks = *Leptogium palmatum* (Hudson) Mont.**

On mossy soil: Mt. Carmel; Mediterranean territory.

***Lichinella stipatula* Nyl.**

On rocks on horizontal position: Dead Sea area, Arava Valley; Sudanian penetration territory. (Marton & Galun 1981).

***Nephroma laevigatum* Ach.**

On trunks of *Quercus* trees shaded most of the time by dense surrounding vegetation: Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Ochrolechia pallescens* (L.) A. Massal.**

On *Ficus carica*, *Quercus calliprinos*: Upper Galilee; Mediterranean territory.

***Ochrolechia parella* (L.) A. Massal.**

On basalt, *Linus orientalis*: Golan Heights, Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970, Hanko & al. 1985).

***Opegrapha atra* Pers.**

On *Ficus carica*: Central Coastal Plain (Sharon Plain); Mediterranean territory. (Galun 1970).

***Pannaria mediterranea* Tavares**

On bark of *Quercus calliprinos*: Upper Galilee; Mediterranean territory. (Galun 1970, Jörgensen 1978).

***Parmelia glabra* (Schaer.) Nyl.**

On bark of old *Olea europaea* trees, *Poa bulbosa* roots, mosses; Mt. Hermon, Upper Galilee; Mediterranean territory. (Galun 1970).

***Parmelia pulla* Ach. = *P. perrugata* Nyl.**

On basalt, calcareous rocks, limestone, flint: Upper and Lower Galilee, Upper Jordan Valley, Samaria, Judean Mountains, Southern Coastal Plain (Shefela); Mediterranean territory. (Galun 1970).

***Parmelia tiliacea* (Hoffm.) Ach.**

On *Olea europaea*, *Quercus calliprinos*, *Pistacia* sp., basalt, mossy calcareous rocks: Golan Heights, Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Parmelia tinctoria* Maheu & A. Gillet**

On flint: Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Parmelia verruculifera* Nyl. = *P. glomellifera* (Nyl.) Nyl.**

On basalt: Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Peccania* sp.**

On Nubian sandstone, calcareous conglomerate: Mt. Carmel, Central Negev, Dead Sea area, Arava Valley, Southern Negev, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Marton & Galun 1981).

***Peltula bolanderi* (Tuck.) Wetm.**

On calcareous rocks, malraceous soil: Judean Desert, Dead Sea area, Arava Valley; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981, Egea 1989).

***Peltula euploca* (Ach.) Poelt**

On basalt: Upper Galilee; Mediterranean territory.

***Peltula obscurans* (Nyl.) Gyeln. var. *deserticola* (Zahlbr.) Wetm.**

On calcareous rocks - usually above a thin sandy layer: Judean Desert, Upper Jordan Valley, Dead Sea area, Arava Valley, South-Western Sinai; Mediterranean, Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981, Egea 1989).

***Peltula patellata* (Bagl.) Swinscow & Krog = *P. polyspora* (Tuck.) Wetm.**

On marlaceous soil: Dead Sea area, Arava Valley, Southern Negev, Sinai; Saharo-Arabian and Sudanian penetration territories. (Marton & Galun 1981, Egea 1989).

***Peltula psammophila* (Nyl.) Egea = *Heppia psammophila* Nyl.**

On thin layers of fine sandy soil accumulated in crevices of granite rocks: Southern Negev; Sudanian penetration territory. (Galun 1970).

***Pertusaria carmeli* Reichert & Galun**

On *Quercus calliprinos*: Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965, Hanko 1983).

***Pertusaria ilicicola* Harm.**

On *Quercus calliprinos*, *Quercus* sp., *Rhamnus palaestina*: Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966, Hanko 1983).

***Pertusaria leucostoma* (Bernh.) A. Massal. var. *areolascens* Erichsen**

On *Quercus calliprinos*: Judean Mountains; Mediterranean territory. (Galun 1970).

***Pertusaria multipuncta* (Turner) Nyl. var. *leptosporoides* Erichsen**

On *Quercus calliprinos*: Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Physcia adscendens* (Fr.) H. Olivier**

On *Olea europaea*, *Quercus calliprinos*, *Rhamnus palaestina*, *Rhamnus punctata*, *Quercus* sp., *Rhamnus* sp., *Pistacia* sp., *Prunus* sp., calcareous rocks, oolitic limestone, basalt, dolomite: fine crystalline dolomite; Upper Galilee, Upper Jordan Valley, Mt. Carmel, Central Coastal Plain, Foothills of Judea (Shefela), Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970, Galun & Lavee 1966).

***Physcia aipolia* (Humb.) Hampe**

On *Quercus calliprinos*, *Olea europaea*, *Quercus* sp., *Citrus* sp.: Mt. Hermon, Upper Galilee; Mediterranean territory. (Galun 1970).

***Physcia biziana* (A. Massal.) Zahlbr.**

On *Olea europaea*, *Cedrus libani*, *Casuarina* sp., basalt: Upper Jordan Valley; Mediterranean territory. (Galun 1970, Reichert 1938).

***Physcia leptalea* (Ach.) DC. = *Physcia semipinnata* (J. F. Gmel.) Moberg**

On *Olea europaea*, *Pistacia palaestina*, *Pistacia atlantica*, *Rhamnus palaestina*, *Quercus calliprinos*, *Quercus* sp., *Pistacia* sp., *Stirax officinalis*, basalt: Golan Heights, Upper and Lower Galilee; Mediterranean territory. (Galun 1970, Herb. Seaward).

***Physcia stellaris* (L.) Nyl.**

On *Olea europaea*, *Pistacia palaestina*, *Rhamnus palaestina*, *Quercus calliprinos*: Upper and Lower Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Physcia tenella* (Scop.) DC.**

On *Olea europaea*, *Rhamnus palaestina*, *Quercus calliprinos*, *Citrus* sp., calcareous rocks, soil: Upper Galilee, Foothills of Judea (Shefela), Judean Mountains; Mediterranean territory. (Galun 1970).

***Physconia distorta* (With.) J. R. Laundon = *P. pulverulenta* (Schreb.) Poelt**

On *Quercus calliprinos*, *Pistacia palaestina*, *Rhamnus palaestina*, *Olea europaea*, *Rhamnus* sp., *Quercus* sp., *Pistacia* sp., often with *Anaptychia ciliaris* and partly covered by it, calcareous rocks: Mt. Hermon, Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Physconia grisea* (Lam.) Poelt subsp. *lilacina* (Arnold) Poelt**

On *Pistacia palaestina*, *Pistacia atlantica*, *Quercus* sp., *Casuarina* sp., mosses, bare and mossy calcareous rocks, mossy soil: Upper and Lower Galilee, Judean Mountains; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Physconia perisidiosa* (Erichsen) Moberg = *P. farrea* auct.**

On *Olea europaea*, *Rhamnus palaestina*, *Quercus calliprinos*, *Pistacia palaestina*, *Pistacia atlantica*, *Quercus* sp., *Rhamnus* sp., calcareous rocks; Mt. Hermon, Upper Galilee; Mediterranean territory. (Galun 1970).

***Physconia subpulverulenta* (Szatala) Poelt**

On *Quercus calliprinos*, *Pistacia* sp., mosses, bare and mossy calcareous rocks: Upper Galilee; Mediterranean territory. (Galun 1970).

***Physconia venusta* (Ach.) Poelt**

On *Quercus calliprinos*, *Quercus boissiri*, *Casuarina* sp., *Quercus* sp: Mt. Hermon, Upper Galilee; Mediterranean territory. (Galun 1970).

***Physma omphalarioides* (Anzi) Arnold**

On *Quercus calliprinos*, *Pistacia palaestina*, bark of the lower shaded tree trunk parts: Upper Galilee; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Placidiopsis dalmatica* Servit**

On soil inbetween mosses and *Hordeum bulbosum*: Upper Galilee; Mediterranean territory.

***Placocarpus schaeferi* (Fr.) Breuss = *Dermatocarpon monstrosum* (Schaer.) Vain.**

On calcareous rocks, dolomite, limestone: Upper Galilee; Mediterranean territory. (Galun 1970).

***Placolecis opaca* (Fr.) Hafellner = *Lecidea opaca* Dufour**

On calcareous rocks: Upper Galilee; Mediterranean territory. (Galun 1970).

***Placopyrenium bucekii* (Nadv. & Servit) Breuss = *Dermatocarpon bucekii* Nadv. & Servit**

On basalt - mainly in rock depressions and on rough surfaces: Upper and Lower Galilee, Upper Jordan Valley; Mediterranean territory. (Galun 1970).

***Placynthium nigrum* (Huds.) Gray**

On mortar, dolomite, calcareous rocks: Upper Galilee, Mt. Carmel, Coast of Carmel (Northern Coastal Plain), Judean Mountains; Mediterranean territory. (Galun 1970).

***Porocyphus rehmicus* (A. Massal.) Zahlbr.**

Scattered among thalli of a coralloid *Peccania*: Found only once in the Arava Valley. (Marton & Galun 1981).

***Protoblastenia calva* (Dicks.) Zahlbr.**

On calcareous rocks: Upper Galilee; Mediterranean territory. (Galun 1970).

***Psora decipiens* (Hedw.) Hoffm. = *Lecidea decipiens* (Hedw.) Ach.**

On basalt, crevices of calcareous rocks, loess, soil, mossy soil and among plant roots, epiphytic on *Poa bulbosa*: Golan Heights, Upper Galilee, Mt. Carmel, Southern Coastal Plain (Philistean Plain), Judean Mountains, Judean Desert, Northern, Central, Southern and Western Negev, Dead Sea area, Arava, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972). Note: the record of *Lecidea decipiens* f. *dealbata* (A. Massal.) Jatta should be checked: they could refer to *Psora saviczii*. On loess: Judean Desert, Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun & Reichert 1960).

***Psora vallesiaca* (Schaer.) Timdal = *Lecidea albilabra* auct.**

On soil in rock depressions: Upper Galilee, Judean Mountains, Sinai; Mediterranean and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972).

***Psorotichia numidella* Forssell**

On dolomite, crystalline limestone, fissures of a wall rock: Northern, Central and Western Negev, Arava Valley, Dead Sea area; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995).

***Pterygiopsis atra* Vain.**

On thin areolate effigurate grayish-black crust: Arava Valley, Dead Sea area; Sudanian penetration territories. (Insarov & Insarova 1995, Marton & Galun 1981).

***Ramalina farinacea* (L.) Ach.**

On *Quercus calliprinos*, *Rhamnus palaestina*, *Pistacia palaestina*, *Pistacia* sp.: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Lavee 1966).

***Ramalina fastigiata* (Pers.) Ach.**

On *Olea europaea*, *Quercus calliprinos*: Upper Galilee; Mediterranean territory. (Galun 1970).

***Ramalina lacera* (With.) J.R. Laundon = *R. duriaei* (De Not.) Bagl.**

On *Olea europaea*, *Ceratonia siliqua*, *Quercus calliprinos*, *Quercus ithaburensis*, *Rhamnus palaestina*, *Ficus careca*, *Lycium europaeum*, *Lycium palaestinum*, *Crataegus azarolus*, *Pistacia lentiscus*, *Phyllaria media*, *Quercus* sp., *Rhamnus* sp.: Upper and Lower Galilee, Edsraelon Valley, Samaria, Mt. Carmel, Central Coastal Plain (Sharon Plain), Foothills of Judea (Shefela), Judean Mountains, Sinai; Mediterranean and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1965).

***Ramalina maciformis* (Delise) Bory**

On flint, flinty limestone, calcareous rocks, limestone, dolomitic limestone, micritic dolomitic limestone and partly silicified limestone: Northern Central and Western Negev and Sinai, Upper and Lower Galilee, Edsraelon Valley, Samaria; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

***Ramalina pollinaria* (Westr.) Ach.**

On basalt: Upper Galilee; Mediterranean territory. (Galun 1970).

***Ramalina reagens* (de Lesd.) W.L. Culb.**

On basalt, *Quercus* sp.: Upper Galilee; Mediterranean territory. (Galun 1970).

***Ramalina subfarinacea* (Cromb.) Nyl.**

Israel, without locality. (Egea & Llimona 1991).

Rhizocarpon tinei* (Tornab.) Runemark subsp. *tinei

On basalt, quarzolithic and melecoid limestone, dolomite, volcanic tuff, flinty enclaves of calcareous rocks: Golan Heights, Upper Galilee; Mediterranean territory. (Galun 1970).

***Rinodina bischoffii* (Hepp) A. Massal. var. *aegyptiaca* Müll. Arg.**

On limestone, dolomitic limestone, micritic dolomitic limestone, flinty limestone, calcareous rocks: Northern and Central and Western Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Insarov & Insarova 1995).

***Rinodina dubyiana* (Hepp) J. Steiner = *R. mediterranea* Flagey**

On calcareous rocks, dolomite, occasionally found on limestone: Central Negev; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Reichert 1960, Insarov & Insarova 1995, Herb. Seaward).

***Rinodina pruinella* Bagl. = *R. carmelii* Reichert & Galun, *R. magnussoniana* Reichert & Galun**

On *Olea europaea*, *Ceratonia siliqua*, *Pistacia atlantica*: Upper and Lower Galilee, Samaria, Mt. Carmel; Mediterranean territory. (Galun 1970, Galun & Reichert 1965, Giralat & Mayrhofer 1994, Reichert & Galun 1958, Herb. Seaward).

***Roccella phycopsis* Ach.**

On calcareous rocks: Lower Galilee, Northern Sinai; Mediterranean and Saharo-Arabian territories. (Galun & Garty 1972).

***Sarcogyne regularis* Körb.**

On calcareous rocks: Mt. Carmel, Upper Galilee; Mediterranean territory. (Galun 1970, Kushnir & Galun 1977).

***Solenopsora candicans* (Dicks.) J. Steiner**

On oolitic limestone, calcareous rocks: Upper Galilee, Judean Mountains; Mediterranean territory. (Galun 1970).

***Solenopsora cesatii* (A. Massal.) Zahlbr. var. *grisea* (Bagl.) Nimis**

On oolitic limestone, calcareous rocks: Mt. Carmel, Southern Coastal Plain (Philistean Plain), Foothills of Judea (Shefela), Judean Mountains; Mediterranean territory. (Galun 1970).

***Solenopsora montagnei* (Fr.) M. Choisy & Werner var. *calcareae* Schaer.**

On oolitic limestone: Mt. Carmel; Mediterranean territory. (Galun 1970).

***Spilonema revertens* Nyl.**

On basalt: Lower Galilee, Upper Jordan Valley; Mediterranean territory. (Galun 1970).

Squamarina cartilaginea* (With.) P. James = *Squamarina crassa* (Huds.) Poelt f. *crassa

On loess, gypsum soil, mosses, mossy soil, calcareous rocks: Dan Valley, Upper and Lower Galilee, Mt. Carmel, Northern Coastal Plain (Coast of Galilee), Central Coastal Plain (Coast of Carmel), Foothills of Judea (Shefela), Judean Mountains, Judean Desert, Central and Western Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Garty & Binyamini 1990).

***Squamarina cartilaginea* f. *iberica* (Mattick)**

On mossy soil: Upper Galilee; Mediterranean territory. (Galun 1970).

***Squamarina cartilaginea* f. *pseudocrassa* (Mattick)**

On mossy soil, calcareous rocks and soil: Upper and Lower Galilee, Samaria, Mt. Carmel, Central Coastal Plain (Sharon Plain), Southern Coastal Plain, Judean Mountains, Foothills of Judea (Shefela), Central Negev, Dead Sea area, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972, Garty & Binyamini 1990).

***Squamarina gypsacea* (Sm.) Poelt**

On soil in calcareous rock depressions, calcareous rocks: Upper Galilee; Mediterranean territories. (Galun 1970).

***Squamarina lentigera* (Weber) Poelt**

On loess, soil, calcareous rocks: Golan Heights, Mt. Carmel, Judean Mountains, Judean Desert, Dead Sea area, Central, Southern and Western Negev, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972, Herb. Seaward).

***Squamarina stella-petraea* (Schaer.) Poelt**

On calcareous rocks, mossy soil: Upper Galilee, Northern Coastal Plain, Judean Mountains; Mediterranean territory. (Galun 1970).

***Teloschistes lacunosus* (Rupr.) Savicz**

On *Zygophyllum dumosum*, *Rhamnus disperma*, *Artemisia herba-alba*, *Gymnocarpus fruticosum*, *Retama raetum*, *Lycium* sp., *Gymnocarpus* sp., *Rhamnus* sp., *Artemisia* sp., loess and soil: Upper Galilee, Foothills of Judea, Northern, Central, Southern and Western Negev, North and Central Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Herb. Seaward).

***Teloschistes villosus* (Ach.) Norman**

On *Crateagus azarolus*, *Lycium europeum*, *Rhamnus palaestina*: Central Coastal Plain (Sharon Plain), Foothills of Judea (Shefela); Mediterranean territory.

***Tephromela atra* (Huds.) Hafellner = *Lecanora atra* (Huds.) Ach.**

On basalt, calcareous rocks, limestone, dolomitic limestone: Upper and Lower Galilee, Mt. Carmel, Samaria, Judean Mountains, Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970, Garty & Binyamini 1990, Insarov & Insarova 1995).

***Thelenella hassei* (Zahlbr.) H. Mayrhofer**

On twigs: Central Coastal Plain (Sharon Plain); Mediterranean territory.

Thelomma siliceum (Fée) Tibell = *Carlosia lusitanica* Samp.

On basalt: Upper Galilee, Edsraelon Valley, Judean Mountains; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Thyrea* sp.**

On thin layer of fine sandy soil in crevices of bare granitic rocks: Arava Valley; Judean Desert, Dead Sea area; Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Marton & Galun 1981).

Toninia albilabra (Dufour) H. Olivier = *T. albomarginata* de Lesd.

On loess (sometimes in shady pits among rocks), soil; Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Timdal 1991).

Toninia aromatica (Sm.) A. Massal.

On loess (sometimes in shady pits among rocks): Mt. Carmel, Northern Coastal Plain (Coast of Carmel), Southern Coastal Plain (Philistean Plain), Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970, Galun & Garty 1972, Timdal 1991).

Toninia lutosa (Ach.) Timdal = *T. verrucosa* (A. Massal.) Flagey

On mortar and cement: Upper Galilee; Mediterranean territory. (Galun 1970, Timdal 1991).

Toninia sedifolia (Scop.) Timdal = *T. coeruleonigricans* (Lightf.) Th. Fr.

On soil, mossy soil, loess, calcareous rocks, among mosses in fissures of calcareous rocks: Upper Galilee, Mt. Carmel, Judean Mountains, Foothills of Judea (Shefela), Dead Sea area, Central Negev, Sinai; Mediterranean, Irano-Turanian, Saharo-Arabian and Sudanian penetration territories. (Galun 1970, Galun & Garty 1972, Timdal 1991).

Tornabea scutellifera (With.) J.R. Laundon = *Anaptychia intricata* (Dufour) A. Massal.

On *Rhamnus palaestina*, *Rhamnus punctata*, *Pistacia atlantica*, *Pistacia palaestina*, *Quercus infectoria*, *Olea europaea*, *Quercus calliprinos*, *Quercus boissieri*, *Rhamnus* sp., *Quercus* sp., *Rhamnus disperma*, *Zygophyllum dumosum*, *Juniperus phoenicea* and on flint: Upper and Lower Galilee, Central Coastal Plain, Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Galun & Lavee 1966).

Verrucaria fuscella (Turner) Winch

On calcareous rocks: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun & Lavee 1966, Galun 1970, Garty & Binyamini 1990).

Verrucaria marmorea (Scop.) Arnold

On calcareous rocks, crystalline limestone: Upper and Lower Galilee, Samaria, Edsraelon Valley, Mt. Carmel; Mediterranean territory. (Galun 1970).

Verrucaria viridula (Schrad.) Ach.

On calcareous rocks, oolitic limestone: Upper Galilee, Mt. Carmel; Mediterranean territory. (Galun 1970).

Xanthoria calcicola Ochsner = *X. aureola* auct.

On basalt: Golan Heights, Upper Galilee; Mediterranean territory. (Egea & Llimona 1991, Galun 1970).

***Xanthoria ectaneoides* (Nyl.) Zahlbr. = *X. aureola* var. *ectaniza* auct.**

On calcareous rocks, soil, mossy soil: Upper and Lower Galilee; Mediterranean territory. (Galun 1970).

***Xanthoria parietina* (L.) Th. Fr.**

On *Citrus sinensis*, *Vitis vinifera*, *Pistacia palaestina*, *Lycium arabicum*, *Rhamnus disperma*, *Artemisia herba-alba*, *Lycium* sp., *Euphorbia* sp., *Pinus* sp. and on calcareous rocks: very common in all the mediterranean area of Israel and Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972, Garty & Binyamini 1990, Garty 1991).

***Xanthoria steineri* I. M. Lamb**

On *Juniperus phoenicea*, *Lycium* sp.: Central Negev, Sinai; Irano-Turanian and Saharo-Arabian territories. (Galun 1970, Galun & Garty 1972).

***Xanthoria stiligera* Giralt, Nimis & Poelt = *X. isidioidea* auct. p.p.**

On calcareous rocks, dolomite, dolomitic limestone, crystalline limestone, flinty limestone, flint: Upper Galilee, Samaria, Northern Coastal Plain (Coast of Carmel), Northern and Central Negev, Sinai; Mediterranean, Irano-Turanian and Saharo-Arabian territories. (Egea & Llimona 1991, Galun 1970, Galun & Garty 1972, Galun & Reichert 1960, Giralt & al. 1993, Insarov & Insarova 1995).

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