

Contribution to the lichen flora of the Canary Islands. II. Epiphytic lichens from La Palma

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Abstract: A list of 42 species of epiphytic lichens from La Palma (Canary Islands), especially from the Biosphere Reserve "El Canal y Los Tiles" is presented. One species, *Belonia lumbrispора*, is proposed as new. Five species are new to Macaronesia: *Anisomeridium nyssaegenum*, *Eopyrenula septemseptata*, *Lecanora navarrensis*, *Sarea difformis*, and *Strigula lateralis*. Seven further species are new records for the whole Canary Islands: *Arthonia astroidestra*, *Arthothelium macounii*, *Glyphis cicatricosa*, *Megalaria pulvereа*, *Parmentaria chilensis*, *Phaeographis dendritica*, and *Rinodina madeirensis*.

Resumen: Se presenta una lista de 42 especies de líquenes epifitos de La Palma, especialmente centrada en la Reserva de la Biosfera "El Canal y Los Tiles" Se propone la nueva especie: *Belonia lumbrispора*. Cinco taxones son nuevas citas para Macaronesia: *Anisomeridium nyssaegenum*, *Eopyrenula septemseptata*, *Lecanora navarrensis*, *Sarea difformis* y *Strigula lateralis*. Siete especies más, son citadas por primera vez para el conjunto de las Islas Canarias: *Arthonia astroidestra*, *Arthothelium macounii*, *Glyphis cicatricosa*, *Megalaria pulvereа*, *Parmentaria chilensis*, *Phaeographis dendritica* y *Rinodina madeirensis*.

Zusammenfassung: 42 Arten epiphytischer Flechten von La Palma (Kanarische Inseln), besonders vom Naturschutzgebiet "El Canal y Los Tiles" werden aufgelistet. *Belonia lumbrispора* wird als neue Art beschrieben. Fünf Arten sind neu für Makaronesien: *Anisomeridium nyssaegenum*, *Eopyrenula septemseptata*, *Lecanora navarrensis*, *Sarea difformis* und *Strigula lateralis*. Sieben weitere Arten sind Neufunde für die Kanarischen Inseln: *Arthonia astroidestra*, *Arthothelium macounii*, *Glyphis cicatricosa*, *Megalaria pulvereа*, *Parmentaria chilensis*, *Phaeographis dendritica* und *Rinodina madeirensis*.

This is the second contribution of the author to the knowledge of Canarian lichen and lichenicolous flora (ETAYO 1996). The samples were collected during an one-week trip to La Palma in 1995. This list tries to complete the one by HERNÁNDEZ PADRÓN & PÉREZ DE PAZ (1995) on the Biosphere Reserve "El Canal y Los Tiles", referring especially to macrolichens. A description of the area and comments on the lichen vegetation is already included in the latter. Chorological notes and nomenclature of the species in Macaronesia mostly follow HAFELLNER (1995). Other observations are made when necessary.

Specimens are deposited in the author's herbarium and in MA-Lich. The species are presented in alphabetical order. Many of them were also found in Gomera but they will be dealt with in a further contribution.

Very frequent in La Palma on different tree species, also common in the reserve. First record from La Palma.

Los Tilos, *Laurus*, J. ETAYO 13503; - *Castanea*, J. ETAYO 13531.

Additional localities: La Palma. way from La Cumbre to Breña Baja, *Laurus*, 760 m s. m., 10. 8. 1995, J. ETAYO 13528. La Palma, Galga, Cubo de la Galga, 550 m s. m., indet. tree, 13. 8. 1995, J. ETAYO 13696.

Agonimia octospora COPPINS & P. JAMES

Common on *Castanea* trees in Los Tilos, with *Byssoloma leucoblepharum* (NYL.) VAIN. em. R. SANT., *Degelia atlantica* (DEGEL.) P. M. JORG. & P. JAMES, *Leptogium teretiusculum* (FLÖRKE) ARNOLD, *Pannaria tavaresii* P. M. JORG., and *Pseudocyphellaria aurata* (ACH.) VAIN. Recorded by COPPINS & JAMES (1978) in Tenerife. It is a new record from La Palma.

Los Tilos, J. ETAYO 13487, 13544.

Anisomeridium biforme (BORRER) R. C. HARRIS

Our specimens differ from descriptions of this taxon (e.g. COPPINS & JAMES in PURVIS & al., 1992) due to their larger conidia (5-6 x 3-3.5 µm) and conidiomata (0.25-0.3 mm diam.). HARRIS (1975 a) pointed out the variability of this taxon.

First record from La Palma. Previously it had been recorded from Tenerife by GIL GONZÁLES & al. (1990).

Los Tilos, J. ETAYO 13653.

Additional material studied: France: Normandie, Calvados, 15 km SW of Bayeux, Balleroy on big tree in the Garden of Castle, 20. 4. 1987 (hb. v. D. BOOM 5437).

Anisomeridium nysaegenum (ELLIS & EVERH.) R. C. HARRIS

It is very rare in the Canary Islands, and only a few conidiomata were found mixed with other lichens. The status of the conidiomata as belonging to *Anisomeridium* is not clear for me because in the Atlantic Pyrenees I found one thallus of *Megalospora tuberculosa* (FÉE) SIPMAN parasitized by the same conidioma. First Macaronesian record.

Los Tilos, J. ETAYO 13544.

Arthonia astroidestra NYL.

It can be distinguished from related species by its UV+ (orange) reaction in thallus and apothecia (COPPINS in PURVIS & al. 1992). I collected it in La Palma and in the French Pyrenees.

First Macaronesian record.

Los Tilos, *Ocotea*, J. ETAYO 13654.

Additional localities: La Palma, Galga, Cubo de la Galga, *Myrica*, 550 m s. m., 13. 8. 1995, J. ETAYO 13721. France: Pyrénées-Atlantiques, Forêt communale de St. Pée-sur-Nivelle, St. Pée, *Quercus robur* L., 50 m s. m., 6. 3. 1994, J. ETAYO 12236; Pyrénées-Atlantiques, near Bera de Bidasoa, Sare, col de Lizuniaga, *Alnus*, 150 m s. m., 14. 3. 1995, J. ETAYO 12838 & B. MARBACH.

***Arthonia cinnabarina* (DC.) WALLR.**

Very common on young trees.

Los Tilos (MA-Lich.).

Additional locality: La Palma, Galga, Cubo de la Galga, *Ilex*, 550 m s. m., 13. 8. 1995, J. ETAYO 13684.

***Arthothelium macounii* (G. MERR.) W. J. NOBLE**

[= *Arthothelium reagens* (COPPINS & P. JAMES) COPPINS & P. JAMES]

Recorded by KALB & HAFELLNER (1992) from Madeira, this is the first report from Canary Islands, where it lives with several *Pyrenula* species on smooth bark trees.

Los Tilos, *Ocotea*, J. ETAYO 13645.

***Bacidia arceutina* (ACH.) ARNOLD**

Los Tilos, MA-Lich.

***Bacidia auerswaldii* (HEPP ex STIZENB.) MIG.**

Recorded from Canary Islands by COPPINS (in PURVIS & al., 1992). First record from La Palma where it is not rare in well preserved laurisilva forest.

Los Tilos, *Castanea*, J. ETAYO 13552; - *Laurus*, J. ETAYO 13623.

***Bacidia laurocerasi* (DELISE ex DUBY) ZAHLBR.**

Our samples with brown apothecia are typical of shaded localities. First record from La Palma.

Los Tilos, *Ilex*, J. ETAYO 13542.

Additional locality: La Palma, road to Pico de las Nieves from Puntallana, pista El Granel, *Ilex*, 1300 m s. m., 13. 8. 1995, J. ETAYO 13494.

***Belonia lumbrispora* ETAYO, spec. nova (Fig. 1)**

Similis speciei *B. incarnata*, sed bene differens ab ea sporis 44-54-septatis (id est, septis multo pluribus), ad septa constrictis, atque ostiolis nonnumquam lateralibus. Habitat in laurisilva, corticicola.

Thallus crustose, superficial and thin, yellowish or greenish. Photobiont *Trentepohlia*? of 5-11 µm diam. Ascomata perithecia-like with lateral to central ostiole, discrete, yellowish, ¼ to ½ immersed, 0.25-0.35 µm diam. Ascomatal wall prosoplectenchymatic, hyaline or yellow, 35-50 µm. Hamathecium of paraphyses, thin, 0.5-1 µm wide, lax and branched especially near the excipulum, containing small yellow-orange oil droplets. Asci 8-spored, narrowly cylindrical, thin-walled, unitunicate, 145-170 x 14-15 µm. Ascospores colourless, 125-153 x 3-4 µm, acicular to vermiform, with 44-54 transversal septa.

Typus: Spain: Canary Islands, Gomera, La Meseta, barranco de la Cueva Encantada, *Ocotea foetens* (AITON) BENTH., 720 m s. m., 3. 8. 1994, J. ETAYO (MA-Lich. - holotypus, BM, W and Hb. ETAYO - isotypi).

The species belongs to *Belonia* because of its carotenoid pigments in the paraphyses, unitunicate asci with more or less truncate apex, and without an external chitinous ring structure, and transversal septate spores. Its most characteristic features are: small perithecia with central to lateral ostioles and hyaline wall, vermiform spores with many (44-54) transversal septa and corticolous habitat.

Belonia incarnata TH. FR. & GRAEWE ex TH. FR. differs especially by its spores which have less and hardly constricted septa (drawing in NOWAK & TOBOLEWSKI 1975), around 20 (POELT 1969), 14-28 in samples recorded below. Furthermore *B. incarnata* does not have lateral ostioles and its habitat is very different, growing on mosses and ground in montane regions.

Belonia americana FINK has larger spores but with similar septation to *B. lumbrisporea*: according to HARRIS (1975 b) it is a non-lichenized fungus synonymous with *Robergea pupula* (NYL.) R. C. HARRIS.

P. lumbrisporea is common in well-preserved and mature laurisilva forest in Gomera and La Palma, where I found it in eight localities. It grows in particular on bark of *Ocotea foetens*, *Ilex canariensis* POIRET and *Laurus azorica* (SEUB.) FRANCO, but also on bryophytes. Other smooth bark lichens accompanying *P. lumbrisporea* are: *Bacidia fraxinea* LÖNNR., *Phlyctis agelaea* (ACH.) FLOT., and *Porina guaranitica* MALME.

Additional localities: La Palma, Los Tilos, mirador de la Baranda. *Ocotea*. ca. 500 m s. m., 12. 8. 1995, J. ETAYO 13532. La Palma, Galga, Cubo de la Galga. *Ocotea*. 550 m s. m., 13. 8. 1995, J. ETAYO 13723. Gomera, alto de Tajenke, on bryophytes, 1240 m s. m., 8. 8. 1994, J. ETAYO 13246. Gomera, La Meseta de Vallehermoso, *Ilex*, 740 m s. m., 3. 8. 1994, J. ETAYO 13292. - ibidem, *Ocotea*, 5. 8. 1994, J. ETAYO 13354. Gomera, Hermigua, Contadero, near the Ermita, *Laurus*, ca. 1000 m s. m., 6. 8. 1994, J. ETAYO 13381. Gomera, Hermigua, La Ermita, camino de Los Políticos, *Laurus*, 935 m s. m., 4. 8. 1994, J. ETAYO 13401.

Material examined of *Belonia incarnata*: Austria, Carinthia, Karnische Alpen, SW of Hermagor, 1.5 km W of Nassfeld, path 403, Madritschen, 1800 m s. m., 23. 8. 1994, P. V. D. BOOM 16066. **Bohemoslovaquia:** 2. 9. 1967, A. VEZDA (BM). **Italy:** Ostalpen, Südtiroler Dolomiten, Passo di Rolle, südliche Abhänge des Monte Castellazzo, 2000-2200 m s. m., 23. 10. 1976, J. POELT & G. ZEHLEITNER (BM). **Slovaquia:** Tatra Magna, in valle Bialovodská dolina, 1080 m s. m., 4. 7. 1993, A. VEZDA (BM). **Sweden:** Orebro, Henbon (BM).

Biatorella ochrophora (NYL.) ARNOLD

Frequent on *Castanea* trees intermixed with *Bacidia* spp., but it can also colonize other lichen thalli like *Lobaria pulmonaria* (L.) WOGGM.

Los Tilos, J. ETAYO 13484, 13552.

Byssoloma leucoblepharum (NYL.) VAIN. em. R. SANT.

Los Tilos, *Castanea*, J. ETAYO 13499.

Additional localities: La Palma, Galga, Cubo de la Galga, *Ocotea* and *Laurus* leaves, 550 m s. m., 13. 8. 1995, J. ETAYO 13658, 13661. Tenerife, Taganana, *Persea*, J. ETAYO 6175. Madeira, Ribeiro Frio, *Erica*, 800 m s. m., 4. 7. 1990, J. ETAYO 5552.

***Byssoloma marginatum* (ARNOLD) SÉRUSIAUX**

Known in Macaronesia from Tenerife (SÉRUSIAUX in PURVIS & al. 1992). First record from Madeira and La Palma. In these two Canary Islands *Byssoloma* is abundant on several trees.

Los Tilos, *Ilex*, J. ETAYO 13539.

Additional localities: La Palma, way from La Cumbre to Breña Baja, *Laurus*, 760 m s. m., 10. 8. 1995, J. ETAYO 13525. La Palma, Cumbre Nueva, *Erica*, 1400 m s. m., 15. 8. 1995, J. ETAYO 13619 & A. REBOLÉ. Tenerife, between Pico del Inglés and Cruz del Carmen, *Laurus* leaves, 900 m s. m., 7. 7. 1991, J. ETAYO 1387. Madeira, Ribeiro Frio, *Camellia*, 800 m s. m., 4. 7. 1990, J. ETAYO 5525, 5529.

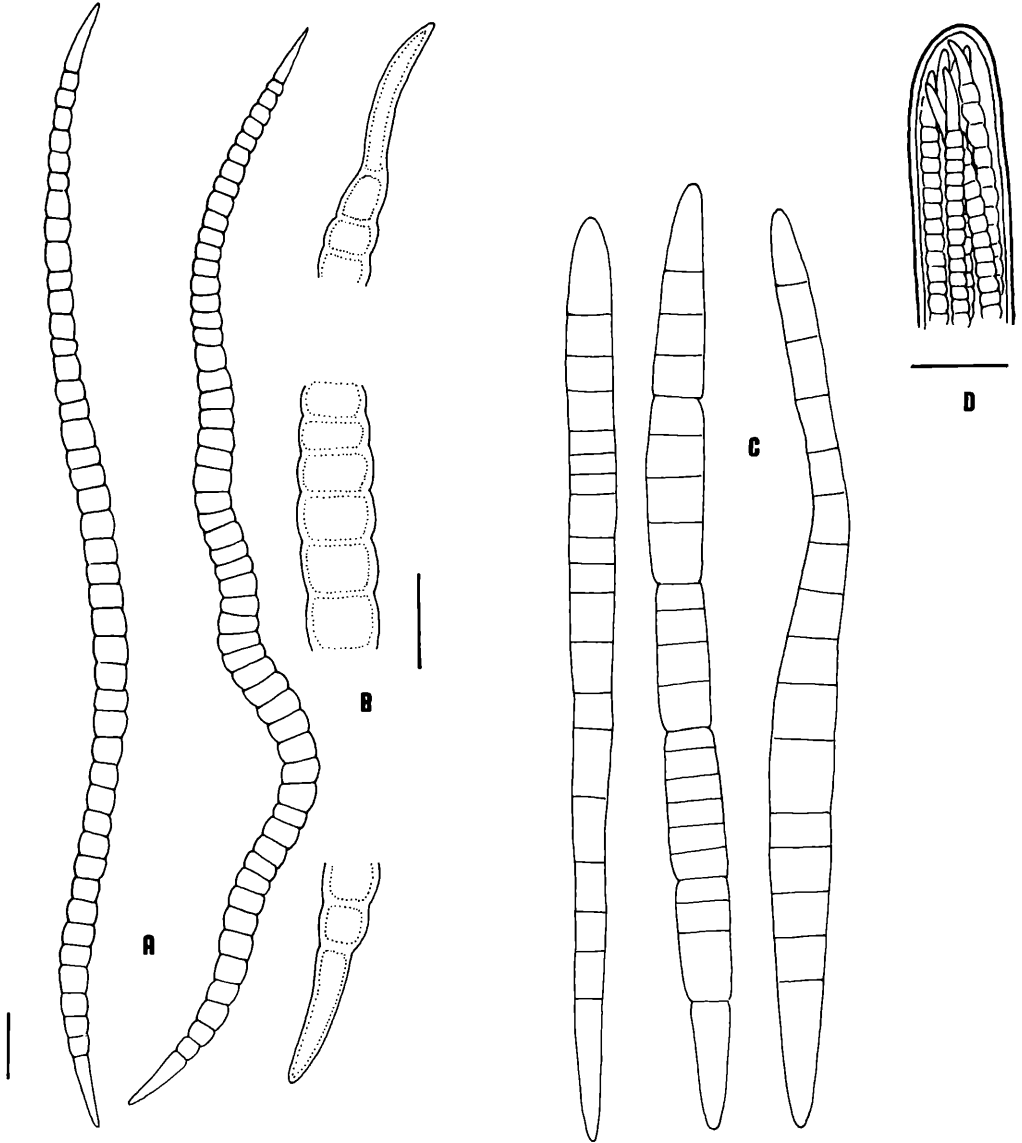


Fig. 1. A, B, D *Belonia lumbrispora* (holotypus), ascospores (in B detail) and ascus apex. C *Belonia incarnata* (BM, A. VEZDA), ascospores. Bar: A, C: 10 µm; B: 5 µm and D: 15 µm.

***Dimerella pineti* (ACH.) VEZDA**

Los Tilos, MA-Lich.

***Enterographa crassa* (DC.) FÉE**

Very common on smooth bark, together with *Phlyctis agelaea* and *Pyrenula laevigata* and on rocks.

Los Tilos, indet. tree (MA-Lich.) and rock, J. ETAYO 13733.

Additional locality: La Palma, Galga, Cubo de la Galga, 550 m s. m., 13. 8. 1995, J. ETAYO 13699, 13724.

***Eopyrenula septemseptata* COPPINS**

This is the first Macaronesian record of this genus and cryptic species previously known from Scotland and Norway (COPPINS in PURVIS & al. 1992).

It lives in young trees with *Phlyctis agelaea*.

Los Tilos, *Ocotea*, J. ETAYO 13622.

***Fellhaneropsis vezdae* (COPPINS & P. JAMES) SÉRUS & COPPINS**

[= *Fellhanera vezdae* (COPPINS & P. JAMES) V. WIRTH]

Recorded by TOPHAM & WALKER (1982) from Tenerife, it seems to be the first record from La Palma.

Los Tilos, indet. tree, J. ETAYO 13536.

***Glyphis cicatricosa* ACH.**

This tropical species was reported for the first time from Macaronesia in the Azores by TAVARES (1952). This is the first record for the Canary Islands. Curiously, it grows on trees in a parking lot.

Los Tilos, *Ocotea*, J. ETAYO 13646.

***Graphis elegans* (BORRER ex SM.) ACH.**

Graphidiales are not common in Macaronesia, at least when compared with Atlantic Pyrenees, but in this reserve some species can be collected. On exposed *Ocotea* and *Ilex*.

Los Tilos, *Ocotea*, MA-Lich.

Additional locality: La Palma, Galga, Cubo de la Galga, *Ilex*, 550 m s. m., 13. 8. 1995, J. ETAYO 13684.

***Lecanora navarrensis* ETAYO**

This species, first described from North Spain (ETAYO 1993) and recorded also in Scotland (COPPINS & KANTVILAS 1995), is common in the Canary Islands where the talli are covered with abundant apothecia. Easily recognized by its yellowish, sore-diate, PD+ red, thallus and whitish apothecia with uniseptate spores.

It grows on several trees (*Castanea*, *Erica*, *Ilex*, *Myrica*, *Prunus* and *Rhamnus*) accompanied by *Rinodina madeirensis* in many cases. New for Macaronesia.

Los Tilos, *Ilex*, J. ETAYO 13538; - *ibidem*, *Castanea*, J. ETAYO 13483, 13652; - *ibidem*, *Myrica*, J. ETAYO 13730.

Additional localities: La Palma, road to Pico de las Nuevas from Puntallana, pista El Granel, *Erica*, 1300 m s. m., 13. 8. 1995, J. ETAYO 13513. La Palma, road La Cumbre from Breña Baja, *Erica*, 760 m s. m., 10. 8. 1995, J. ETAYO 13514.

***Leptogium teretiusculum* (FLÖRKE) ARNOLD**

First record of this small *Leptogium* from La Palma. Here it is not rare on *Castanea* and overgrows other lichens like *Lobaria pulmonaria*.

Los Tilos, *Castanea*, J. ETAYO 13487, 13544, 13552.

Additional localities: La Palma, road from La Cumbre to El Paso, *Castanea*, 1030 m s. m., 10. 8. 1995, J. ETAYO 13707. La Palma, Cumbre Nueva, *Castanea*, 1400 m s. m., 15. 8. 1995, J. ETAYO 13710 & A. REBOLÉ.

***Megalaria pulverea* (BORRER) HAFELLNER & E. SCHREINER**

Normally sterile, in the reserve it is often found with apothecia on exposed *Ocotea* trees. First Canarian record.

Los Tilos, indet. tree, MA-Lich.

Additional localities: La Palma, road Santa Cruz to El Paso, km 19, pista de Los Lomos, *Erica* and *Viburnum rigidum* VENT., 1000 m s. m., 10. 8. 1995, J. ETAYO 13605. Madeira, Ribeiro Frio, *Erica*, 800 m s. m., 4. 7. 1990, J. ETAYO 5557.

***Opegrapha atra* PERS.**

Los Tilos, *Persea*?, J. ETAYO 13649.

Additional locality: La Palma, road to La Cumbre from Breña Baja, *Laurus*, 760 m s. m., 10. 8. 1995, J. ETAYO 13525.

***Pannaria conoplea* (ACH.) BORY**

This is one of the few macrolichens we found that was not recorded by HERNÁNDEZ-PADRÓN & PÉREZ DE PAZ (1995) in the reserve.

Los Tilos, bryophytes on rock, J. ETAYO 13624.

***Parmeliella parvula* P. M. JORG.**

(= *P. jamesii* S. AHLNER & P. M. JORG.)

On *Castanea* trunk with *Agonimia octospora*, *Bacidia phacodes* KÖRB., *Biatorella ochrophora*, *Byssoloma leucoblepharum*, *Dimerella pineti*, and *Leptogium* spp.

Los Tilos, *Castanea*, J. ETAYO 13485.

Additional locality: La Palma, Cumbre Nueva, *Erica*, 15. 8. 1995, J. ETAYO 13613.

***Parmentaria chilensis* FÉE**

Reported from Macaronesia without specifying the locality (PURVIS in PURVIS & al., 1992). I have not found any Canarian record of it but the taxon occurs in La Palma and Gomera.

Los Tilos, *Ilex*, J. ETAYO 13656.

Additional locality: La Palma, Galga, Cubo de la Galga, 550 m s. m., *Ilex*, 13. 8. 1995, J. ETAYO 13693.

***Pertusaria alpina* HEPP ex A. E. AHLES**

Los Tilos, *Ilex*, *Ocotea*, J. ETAYO 13551.

***Pertusaria hymenea* (ACH.) SCHAER.**

Los Tilos, *Castanea*, MA-Lich.

***Pertusaria velata* (TURNER) NYL.**

On *Castanea* with *Lecanora navarrensis* and *Rinodina madeirensis*.

Los Tilos, J. ETAYO 13483.

***Phaeographis dendritica* (ACH.) MÜLL.ARG.**

First record for the Canary Islands.

Los Tilos, *Ocotea*, MA-Lich.

Additional locality: La Palma, Galga, Cubo de la Galga, *Myrica* and *Ilex*, 550 m s. m., 13. 8. 1995, J. ETAYO 13694.

***Pseudosagedia aenea* (WALLR.) HAFELLNER & KALB**

Recorded in Tenerife (GIL GONZÁLES & al. 1990). This is the first record from La Palma.

Los Tilos, *Persea*?, J. ETAYO 13649.

***Pseudosagedia borrieri* (TREVIS.) HAFELLNER & KALB**

[= *Porina borrieri* (TREVIS.) D. HAWKSW. & P. JAMES]

On rugose bark of *Laurus* with *Bacidia auerswaldii* and *Byssoloma marginatum*.

Los Tilos, MA-Lich.

***Pyrenula laevigata* (PERS.) ARNOLD**

Recorded by BREUSS (1988) from Tenerife, these are the first records from La Palma.

Los Tilos, *Ilex*, J. ETAYO 13543.

Additional locality: La Palma, Galga, Cubo de la Galga, *Ilex*, 550 m s. m., 13. 8. 1995, J. ETAYO 13724.

***Pyrenula occidentalis* (R. C. HARRIS) R. C. HARRIS**

(= *P. neglecta* auct. europ., non HARRIS; ?*P. harrisii* HAFELLNER & KALB)

Canarian specimens of this taxon are identical to oceanic European ones. The most distinctive character is the red pruina on the ascomata and the type of spores. The short description of *P. harrisii* given in KALB & HAFELLNER (1992) specifies that first character alone, but that does not permit to separate it from *P. occidentalis*.

Very common on smooth bark of *Ocotea* together with *Enterographa crassa*, more rarely on *Castanea*.

Los Tilos, *Ocotea* and *Castanea*, J. ETAYO 13541.

Additional localities: La Palma, Galga, Cubo de la Galga, *Ilex*, 550 m s. m., 13. 8. 1995, J. ETAYO 13719. Tenerife, between Pico del Inglés and Cruz del Carmen, smooth tree, 900 m s. m., 7. 7. 1991, J. ETAYO 1371. Tenerife, bajada Taborno, *Laurus*, 7. 7. 1991, J. ETAYO 1371. Tenerife, Monte de las Mercedes, sendero Plano del Loro, *Laurus*, 7. 7. 1991, J. ETAYO 13650.

***Pyrrhospora querneae* (DICKS.) KÖRB.**

I found it in La Palma, with apothecia, on wood of *Pinus canariensis* CHR. SM. ex DC. mixed with *Rinodina madeirensis*. According to HAFELLNER (1995) it is only known in Macaronesia from the Canary Islands.

Los Tilos, *Pinus* wood, J. ETAYO 13522.

Additional locality: Tenerife, Taganana, *Persea*, 7. 7. 1991, J. ETAYO 6174.

***Ramalina pusilla* LE PRÉVOST ex DUBY**

Los Tilos, *Castanea*, J. ETAYO 13269

Additional locality: La Palma, between Barlovento and Los Sauces, *Myrica*, 390 m s. m., 12. 8. 1995, J. ETAYO 13554.

***Rinodina madeirensis* KALB & HAFELLNER**

Very common in Gomera (ETAYO, unpubl.); also common in La Palma. First record from the Canary Islands.

Los Tilos, *Castanea*, J. ETAYO 13483, 13652; - ibidem, *Pinus* wood, J. ETAYO 13522.

Additional locality: La Palma, Breña Arriba, *Cistus*, 540 m s. m., 10. 8. 1995, J. ETAYO 13500.

***Sarea difformis* (FR.) FR.**

First record of this genus in Macaronesia. *S. difformis* is growing here on resin of *Pinus canariensis* in shaded places.

Los Tilos, J. ETAYO 13732.

***Schismatomma ricasolii* (A. MASSAL.) EGEA & TORRENTE**

[= *S. graphidioides* (LEIGHTON) ZAHLBR.]

Los Tilos, *Ilex*, J. ETAYO 13540.

***Strigula lateralis* APTROOT & V. D. BOOM**

First record from Macaronesia. It was known before from Portugal and Ireland (APTROOT & VAN DEN BOOM 1995). We found it in Gomera and La Palma growing on smooth bark trees in the laurisilva. In Los Tilos it is relatively common. The microconidia, which are not described in APTROOT & VAN DEN BOOM 1995, are simple, 2-3 x 0.5-1 µm and the conidial cells ca. 9-10 x 1.5 µm.

Los Tilos, *Ocotea*, J. ETAYO 13537.

Additional localities: La Palma, Galga, Cubo de la Galga, indet. tree, 550 m s. m., 13. 8. 1995, J. ETAYO 13727. La Palma, way Santa Cruz to El Paso, *Juglans*, 700 m s. m., 9. 8. 1995, J. ETAYO s. n.

***Strigula nitidula* MONT.**

Los Tilos, *Laurus* leaves, J. ETAYO 13512.

Additional localities: La Palma, canyon of Barranco del Agua, 500 m s. m., *Laurus* leaves, 12. 8. 1995, J. ETAYO 13519. La Palma, Galga, Cubo de la Galga, *Ocotea* leaves, 550 m s. m., 13. 8. 1995, J. ETAYO 13647.

***Thelotrema macrosporum* P. M. JORG. & P. JAMES**

According to PURVIS & al. (1995) Macronesian records of *T. monosporum* NYL. may refer to this species.

Los Tilos, *Ilex*, J. ETAYO 13550.

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