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A PRELIMINARY LIST OF XYLARIACEOUS FUNGI OF EL CIELO BIOSPHERE
RESERVE, IN TAMAULIPAS, MEXICO

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ABSTRACT

Se enlistan 77 especies y taxa infraespecíficos de hongos xilariáceos colectados en la Reserva de la Biosfera El Cielo. Para cada taxon se indica el tipo de vegetación y el sustrato en que fue encontrado.

RESUMEN

Seventy seven species and infraspecific taxa of xylariaceous fungi collected in El Cielo Biosphere Reserve are listed. For each taxon, the vegetation type and the substrate, are recorded.

El Cielo Biosphere Reserve comprises an area of 144,530.051 ha. It is located in the southwestern portion of the state of Tamaulipas, in the region known as Sierra de Cucharas or Sierra de Guatemala, in the Sierra Madre Oriental. The reserve is circumscribed by parallels 22°55'30" and 23°25'50"N and meridians 99°05'50" and 99°26'30"W (Anonymous, 1985). Three main vegetation types prevail in the area: medium size subdeciduous tropical forest located between 200 and 800 meters above sea level (masl), cloud forest present between 700 and 1400 masl and oak-pine forest situated between 1400 and 2100 masl (Rzedowski, 1978).

The inventory of vascular plants for the reserve is well-documented (Lof, 1980; Puig & Bracho, 1987; Johnston et al., 1989), and the record of vertebrates seems to be essentially complete (Miksch & Sewall, 1942; Harrel, 1951; Hooper, 1953; Martin, 1955a, 1955b, 1958; Alvarez, 1963).

Mycological studies in the reserve are scarce and mostly deal with taxonomic aspects. The best studied groups are the Aphyllophorales (Valenzuela & Chacón, 1991; Bandala et al., 1993), the Boletales (García, 1993), and dematiaceous Hyphomycetes (Heredia, 1994).

Xylariaceous fungi are primarily parasites and saprophytes of angiospermous plants, and even the coprophilous representatives of the family Xylariaceae (Pyrenomycetes, Sphaeriales) are nourished primarily by angiospermous remains and are considered to be specialized angiosperm saprophytes (San Martín & Rogers, 1995a).

The Xylariaceae previously recorded from the reserve are: Hernández et al. (1951) reported one species of *Daldinia* and one of *Xylaria*; Heredia (1989) listed *Daldinia concentrica* (Bolton:Fr.) Ces. & De Not., *D. vernicosa* (Schwein.) Ces. & De Not. = *D. fissa* C.G. Lloyd, *Entonaema liquescens* Moell., *Xylaria coccophora* Mont., *X. grammica* (Mont.) Fr., *X. magnoliae* J.D. Rogers, and *X. persicaria* (Schwein.: Fr.) Berk. & M.A. Curtis, and San Martín and Rogers (1989, 1993a, 1993b, 1995) described 27 species of *Xylaria*, four of *Biscogniauxia*, three of *Camillea*, two of *Kretzschmaria* and one of *Rosellinia*.

In this contribution, the number of xylariaceous fungi known from different vegetation types and substrates of the reserve is expanded to 77 species and 4 varieties, representing 31 % of the total amount of Xylariaceae reported from Mexico up to the present. For each taxon the bibliographic reference of its description is provided.

The specimens of the taxa listed below were collected and identified from 1986 to 1992 and are housed in ITCV.

Table 1. Xylariaceous fungi from El Cielo biosphere reserve in Tamaulipas.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Anthostomella</i> cf. <i>melanosticta</i> (Ellis & Everhart, 1887)	Bamboo wood	+	-	-	-
<i>Biscogniauxia mediterranea</i> (San Martín & Rogers, 1993b)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon microplacum</i> (Miller, 1961)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Biscogniauxia nummularia</i> var. <i>merrillii</i> (San Martín & Rogers, 1993b)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Biscogniauxia nummularia</i> var. <i>pseudopachyloma</i> (San Martín & Rogers, 1993b)	Citrus wood	-	-	-	+
<i>Camillea cyclisca</i> (Laessøe et al., 1989)	Wood of unknown Dicotyledoneae	-	-	-	+
<i>Camillea magnifica</i> (San Martín & Rogers, 1993b)	<i>Guazuma ulmifolia</i> wood	+	-	-	-
<i>Camillea obularia</i> (Rogers et al., 1991)	<i>Mangifera</i> wood	-	-	-	+

* Medium size subdeciduous tropical forest; ** Cloud forest; + Oak-pine forest; ++ Agro-ecosystem.

Table 1. Continuation.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Camillea punctulata</i> (Laessøe et al., 1989)	<i>Quercus</i> spp. wood	-	+	+	-
<i>Camillea tinctor</i> Laessøe et al., 1989)	<i>Populus</i> sp. and other Dicotyledoneae	+	+	-	-
<i>Creosphaeria sassafras</i> (Ju et al., 1993)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Daldinia clavata</i> (Ju et al., 1996)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Daldinia concentrica</i> (Child, 1932)	<i>Magnolia</i> sp. and other Dicotyledoneae	-	+	+	-
<i>Daldinia grandis</i> (Ju et al., 1996)	<i>Quercus</i> sp.	-	-	+	-
<i>Daldinia eschscholzii</i> (Ju et al., 1996)	Wood of unknown Dicotyledoneae	+	-	-	+
<i>Entonaema liquescens</i> (Rogers, 1981)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Entonaema pallida</i> (Martin, 1938)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon erythrostoma</i> (Miller, 1933)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Hypoxylon haematostroma</i> (San Martín, 1992)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon lenormandii</i> (Ju & Rogers, 1996)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon shearii</i> (Ju & Rogers, 1996)	<i>Quercus</i> wood	-	+	+	-
<i>Hypoxylon subgilvum</i> (Ju & Rogers, 1996)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon subrutilum</i> (Ju & Rogers, 1996)	Wood of unknown Dicotyledoneae	+	-	-	-

Table 1. Continuation.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Hypoxylon annulatum</i> (Shear, 1945)	<i>Quercus</i> wood	-	+	+	-
<i>Hypoxylon moriforme</i> (Ju & Rogers, 1996)	<i>Quercus</i> and other Dicotyledoneae	+	-	+	-
<i>Hypoxylon rosellinioides</i> (Miller, 1961)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Hypoxylon stygium</i> (Miller, 1961)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Hypoxylon thouarsianum</i> (Miller, 1961)	<i>Quercus</i> wood	-	+	+	-
<i>Hypoxylon</i> cf. <i>ticinense</i> (Ju & Rogers, 1996)	<i>Crataegus</i> sp. wood	-	-	+	-
<i>Hypoxylon</i> cf. <i>verrucosum</i> (Theissen, 1909)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Kretzschmaria</i> sp. aff. <i>cetrarioides</i> (San Martín y Rogers, 1993a)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Kretzschmaria</i> sp. aff. <i>heliscus</i> (San Martín & Rogers, 1993a)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Kretzschmariella culmorum</i> (Ju & Rogers, 1994)	Bamboo wood	+	-	-	-
<i>Nemania bipapillata</i> (Pouzar, 1995)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Nemania confluens</i> (Laessøe & Spooner, 1994)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Nemania effusa</i> (Pouzar, 1985)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Nemania subannulata</i> (Van der Gucht, 1995)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Poronia oedipus</i> (Dennis, 1957)	Cow dung	-	-	-	+
<i>Rosellinia evansii</i> (Laessøe & Spooner, 1994)	Wood of unknown Dicotyledoneae	-	-	+	-

Table 1. Continuation.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Rosellinia sublimbata</i> (San Martín & Rogers, 1995b)	Wood of unknown Monocotyledoneae	+	-	-	-
<i>Ustulina deusta</i> (San Martín, 1992)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria adscendens</i> (San Martín & Rogers, 1989)	<i>Quercus</i> and other Dicotyledoneae	-	+	-	-
<i>Xylaria alata</i> (San Martín & Rogers, 1989)	Buried Dicotyledoneae remains	+	-	-	-
<i>Xylaria amphithele</i> (San Martín & Rogers, 1989)	Fallen leaves	+	-	-	-
<i>Xylaria anisopleura</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria brachiata</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria coccophora</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria cordovensis</i> (Cooke, 1883)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria cubensis</i> (Dennis, 1956)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria curta</i> (Callan & Rogers, 1990)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria enteroleuca</i> (Miller, 1934)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria feejeensis</i> (San Martín, 1992)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria frustulosa</i> (Jong & Rogers, 1970)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria gracillima</i> (San Martín, 1992)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria grammica</i> (Dennis, 1956)	Wood of unknown Dicotyledoneae	+	-	-	-

Table 1. Continuation.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Xylaria guazumae</i> (San Martín & Rogers, 1989)	<i>Guazuma ulmifolia</i> fruits	+	-	-	-
<i>Xylaria</i> cf. <i>holmbergi</i> (Saccardo, 1882)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria ianthinovelutina</i> (Dennis, 1956)	Fruit (mainly pods) remains	+	-	-	-
<i>Xylaria juniperus</i> var. <i>asperula</i> (Starback, 1901)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria kegeliana</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria longiana</i> (San Martín & Rogers, 1989)	<i>Quercus</i> wood	-	+	+	-
<i>Xylaria longipes</i> (Rogers, 1983)	<i>Acer</i> wood	-	+	-	-
<i>Xylaria magnoliae</i> (Rogers, 1979)	<i>Magnolia</i> fruit remains	-	+	-	-
<i>Xylaria</i> aff. <i>mellisii</i> var. <i>nuda</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria multiplex</i> (Dennis, 1956)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria musooriensis</i> (Dargan, 1982)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria oxyacanthae</i> (San Martín & Rogers, 1989)	Fruit remains	+	-	-	-
<i>Xylaria persicaria</i> (San Martín & Rogers, 1989)	<i>Liquidambar</i> sp. fruits	-	+	-	-
<i>Xylaria phosphorea</i> (Dennis, 1956)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria</i> aff. <i>piperiformis</i> (San Martín, 1992)	Soil	+	-	-	-
<i>Xylaria poitei</i> (Rogers & Callan, 1986a)	Wood of unknown Dicotyledoneae	+	-	-	-

Table 1. Continuation.

TAXON	SUBSTRATE	MSTF*	CF**	OP +	AE++
<i>Xylaria polymorpha</i> (Rogers & Callan, 1986b)	Wood of unknown Dicotyledoneae	+	-	-	-
<i>Xylaria scruposa</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	+	-	-
<i>Xylaria telfairii</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	-	+	-	-
<i>Xylaria uniapiculata</i> (San Martín & Rogers, 1989)	Wood of unknown Dicotyledoneae	+	-	-	-

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LITERATURE CITED

- Alvarez, T. 1963. The recent mammals of Tamaulipas, Mexico. Univ. Kansas Publ. Mus. Nat. Hist. 14: 363-473.
- Anonymous. 1985. Periódico Oficial del Estado de Tamaulipas. Tomo 110. Núm. 56.
- Bandala, V. M., G. Guzmán & L. Montoya. 1993. Los hongos del grupo de los poliporáceos conocidos en México. Reporte Científico de la Facultad de Ciencias Forestales de la Universidad Autónoma de Nuevo León. No. Esp. 13: 1-55.
- Callan, B. E. & J. D. Rogers. 1990. Teleomorph-anamorph connections and correlations in some *Xylaria* species. Mycotaxon 36(2): 343-369.
- Child, M. 1932. The genus *Daldinia*. Ann. Missouri Bot. Gard. 19: 429-496.
- Cooke, M. C. 1883. On *Xylaria* and its allies. Grevillea 11: 81-94.
- Dargan, J. S. 1982. *Xylaria musooriensis*: a new species from India. Mycologia 74(3): 523-525.

- Dennis, R. W. G. 1956. Some Xylarias of tropical America. *Kew Bull.* 1956: 401-444.
- Dennis, R. W. G. 1957. Further notes on tropical American Xylariaceae. *Kew Bull.* 1957: 297-332.
- Ellis, J. B. & B. M. Everhart. 1887. New species of fungi. *Jour. Mycol.* 3(4): 41-45.
- García, J. 1993. Una lista preliminar de los hongos del suborden Boletineae (Agaricales, Basidiomycetes) en el noreste de México. *Reporte Científico de la Facultad de Ciencias Forestales de la Universidad Autónoma de Nuevo León*. No. Esp. 13: 116-131.
- Harrel, B. E. 1951. The birds of Rancho El Cielo: an ecological investigation in the oak-sweet gum forest of Tamaulipas, Mexico. Master of arts thesis. University of Minnesota, Pilot Knob, Minnesota. 103 pp.
- Heredía, G. 1989. Estudio de los hongos de la Reserva de la Biosfera El Cielo, Tamaulipas. Consideraciones sobre la distribución y ecología de algunas especies. *Acta Bot. Mex.* 7: 1-17.
- Heredía, G. 1994. Hifomicetes dematiáceos en bosque mesófilo de montaña. Registros nuevos para México. *Acta Bot. Mex.* 27: 15-32.
- Hernández X., E., H. Crum, W. B. Fox & A. J. Sharp. 1951. A unique vegetational area in Tamaulipas. *Bull. Torr. Bot. Club* 78: 458-463.
- Hooper, E. 1953. Notes on mammals of Tamaulipas, Mexico. *Occas. Pap. Mus. Zool. Univ. Michigan* 544: 1-12.
- Johnston, M. C., G. Nixon, G. Nesom & M. Martínez. 1989. Lista de plantas vasculares conocidas en la Sierra de Guatemala, Gómez Farías, Tamaulipas. *Biotam* 2: 21-33.
- Jong, S. C. & J. D. Rogers. 1970. *Penzigia frustulosa* in culture. *Mycologia* 62: 851-855.
- Ju, Y.-M., F. San Martín & J. D. Rogers. 1993. Three xylariaceous fungi with scolecosporous conidia. *Mycotaxon* 47: 219-228.
- Ju, Y.-M. & J. D. Rogers. 1994. *Kretzschmariella culmorum* (Cooke) comb. nov. and notes on some monocot-inhabiting xylariaceous fungi. *Mycotaxon* 51: 241-255.
- Ju, Y.-M. & J. D. Rogers. 1996. A revision of the genus *Hypoxylon*. The mycological Society of America. *Mycologia Memoir* No. 20 and The American Phytopathological Society of America, St. Paul, Minnesota. 365 pp.
- Ju, Y.-M., J. D. Rogers & F. San Martín. 1996. A revision of the genus *Daldinia*. *Mycotaxon* (in press).
- Laessøe, T., J. D. Rogers & A. J. S. Whalley. 1989. *Camillea*, *Jongiella* and light-spored species of *Hypoxylon*. *Myc. Res.* 93 (2): 121-155.
- Laessøe, T. & B. M. Spooner. 1994. *Rosellinia* and *Astrocystis* (Xylariaceae): new species and generic concepts. *Kew Bull.* 49: 1-70.
- Lof, V. 1980. The ferns of the Rancho del Cielo region. Master of arts thesis. Pan American University, Edinburg, Texas. 161 pp.
- Martin, G. W. 1938. New or noteworthy fungi from Panama and Colombia II. *Mycologia* 30: 431-441.
- Martin, P. S. 1955a. Herpetological records from the Gómez Farías region of Southwestern Tamaulipas, Mexico. *Copeia* 3: 173-180.
- Martin, P. S. 1955b. Zonal distribution of vertebrates in a Mexican cloud forest. *Amer. Nat.* 89: 347-361.
- Martin, P. S. 1958. A biogeography of reptiles and amphibians in the Gómez Farías region, Tamaulipas, Mexico. *Misc. Publ. Mus. Zool., Univ. Michigan*. 101: 1-102.
- Miksch, G. & O. Sewall. 1942. Birds of the Gómez Farías region, Southwestern Tamaulipas. *Journ. of Ornithology* 59: 1-35.
- Miller, J. H. 1933. Some new species of *Hypoxylon*. *Mycologia* 25: 321-328.
- Miller, J. H. 1934. Xylariaceae. In: Chardon, C. E. & R. A. Toro (eds.). *Mycological explorations of Venezuela*. Monographs of Univ. of Puerto Rico Series B, No. 2. Rio Piedras, Puerto Rico. pp. 195-220.
- Miller, J. H. 1961. A monograph of the world species of *Hypoxylon*. Univ. Georgia Press. Athens. 158 pp.
- Petrini, L. E. & E. Müller. 1986. Haupt- und Nebenfruchtformen europäischer *Hypoxylon*: Arten (Xylariaceae, Sphaeriales) und verwandter Pilze. *Mycologia Helv.* 1: 501-627.

- Pouzar, Z. 1985. Reassessment of the *Hypoxylon serpens*-complex II. *Ces. Mykol.* 39: 129-134.
- Puig, H. & R. Bracho. 1987. El bosque mesófilo de montaña de Tamaulipas. Instituto de Ecología A.C. México D.F. 189 pp.
- Rogers, J. D. 1979. *Xylaria magnoliae* sp. nov. and comments on several other fruit-inhabiting species. *Can. J. Bot.* 57: 941-945.
- Rogers, J. D. 1981. *Sarcoxylon* and *Entonaema* (Xylariaceae). *Mycologia* 73 (1): 28-61.
- Rogers, J. D. 1983. *Xylaria bulbosa*, *Xylaria curta*, *Xylaria longipes* in continental United States. *Mycologia* 75: 457-467.
- Rogers, J. D. 1986. Provisional keys to *Xylaria* species in continental United States. *Mycotaxon* 26: 85-97.
- Rogers J. D. & B. E. Callan. 1986a. *Xylaria poitei*: stromata, cultural description, and structure of conidia and ascospores. *Mycotaxon* 26: 287-298.
- Rogers, J. D. & B. E. Callan. 1986b. *Xylaria polymorpha* and its allies in continental United States. *Mycologia* 78: 391-400.
- Rogers, J. D., B. E. Callan & G. J. Samuels. 1987. The Xylariaceae of the rain forests of North Sulawesi. *Mycotaxon* 29: 113-172.
- Rogers, J. D., T. Laessøe & J. Lodge. 1991. *Camillea*: new combinations and a new species. *Mycologia* 83(2): 224-227.
- Rogers, J. D., F. San Martín & Yu-Ming Ju. 1996. Mexican fungi: *Xylaria entosulphurea* sp. nov. and neotypification of *Entonaema globosum*. *Mycotaxon* 58: 483-487.
- Rzedowski, J. 1978. La vegetación de México. Ed. LIMUSA. México, D.F. 431 pp.
- Saccardo, P. A. 1882. *Sylloge fungorum omnium hucusque cognitorum*. I Patavii. 768 pp.
- San Martín, F. 1992. A mycofloristic and cultural study of the Xylariaceae of Mexico. Ph. D. Thesis. Washington State University, Pullman, Washington. 560 pp.
- San Martín, F. & J. D. Rogers. 1989. A preliminary account of *Xylaria* of Mexico. *Mycotaxon* 34: 283-373.
- San Martín, F. & J. D. Rogers. 1993a. *Kretzschmaria*, *Leprieuria*, and *Poronia* in Mexico. *Mycotaxon* 48: 179-191.
- San Martín, F. & J. D. Rogers. 1993b. *Biscogniauxia* and *Camillea* in Mexico. *Mycotaxon* 47: 229-258.
- San Martín, F. & J. D. Rogers. 1995a. Notas sobre la historia, relaciones de hospedante y distribución del género *Xylaria* (Pyrenomycetes, Sphaeriales) en México. *Acta Bot. Mex.* 30: 21-40.
- San Martín, F. & J. D. Rogers. 1995b. *Rosellinia* and *Thamnomycetes* in Mexico. *Mycotaxon* 53: 115-127.
- Shear, C. L. 1945. Studies of types and authentic specimens of *Hypoxylon* I. *Lloydia* 8(4): 245-262.
- Starback, K. 1901. Ascomyceten der Ersten Regnellischen Expedition II. *Svensk Vet. Akad. Handlingar* 27: 1-26.
- Theissen, F. 1908. Novitates riograndenses. *Ann. Mycol.* 6: 341-352.
- Theissen, F. 1909. Xylariaceae Austro-Brasilienses. *Ann. Mycol.* 7: 141-167.
- Valenzuela, R. & S. Chacón. 1991. Los Poliporáceos de México, III. Algunas especies de la Reserva de la Biosfera El Cielo, Tamaulipas. *Rev. Mex. Mic.* 7: 39-70.
- Van der Gucht, K. 1995. Illustrations and descriptions of Xylariaceous fungi collected in Papua, New Guinea. *Bull. Jard. Bot. Nat. Belg.* 64: 219-403.