

ÍNDICE DE ANEXOS

ANEXO 1	Citas de Aphylophorales no poroides para México	123
ANEXO 2	Ejemplo de errores detectados en la importación de archivos por DELTA	126
ANEXO 3	Especies de Aphylophorales no poroides citadas para México agrupadas en familias.	128
ANEXO 4	Erratas encontradas en los reportes de Aphylophorales no poroides de México	134
ANEXO 5	Parte de la base de datos de los Aphylophorales no poroides generada con el programa Access	136
ANEXO 6	Parte de la clave en formato HTML generada con el programa KEY	138
ANEXO 7	Parte de la clave en formato RTF generada por el programa KEY	140
ANEXO 8	Descripciones generadas por el programa CONFOR en formato TXT.	142
ANEXO 9	Descripciones generadas por el programa CONFOR en formato HTML	144
ANEXO 10	Matriz de distancia generada por el programa DIST	
	A. Taxa considerados en la matriz de distancia	146
	B. Distancias entre los taxa	147

ANEXO 1: Citas de Aphylophorales no poroides para Mexico

García Romero et al. 1970

Thelephoraceae

Aleurodiscus acerinus (Pers.) Höhn. Et Litsch
Aleurodiscus amorphus (Pers. Fr.) Schroet
Aleurodiscus bertini Lloyd
Aleurodiscus boyosus Burt.
Aleurodiscus candidus (Schw.) Burt
Aleurodiscus griseo-canis (Bres.) von Höhn. Et Litsch
Coniophora olivacea (Fr. Pers.) Karst
Coniophora roseum Pers
Corticium adhaesum Burt
Corticium apiculatum Bres.
Corticium ceraceum Berk. Et Rav.
Corticium chrysocreas Berk. Et Curt.
Corticium confluens Fr
Corticium contractum Fr
Corticium investiens (Schw.) Bres
Corticium lactescens Berk
Corticium mexicanum Burt.
Corticium murrillii Burt.
Corticium ocellulare Karst.
Corticium pannosum Fr
Corticium pelliculare Karst.
Corticium portentosum Berk. Et Curt
Corticium protusum Burt.
Corticium roseum Pers.
Corticium stramineum Bres.
Corticium vellereum Ell et Craig.
Cotylidia cyphelloides (Berk. Et Curt.) Weld.
Cotylidia diaphana (Schw.) Lentz
Cotylidia undulata (Fr.) Karst
Cymatoderma dendriticum (Pers.) Reid.
Hymenochaete opaca Burt
Hymenochaete pallida Cooke et Mass.
Hymenochaete pinnatifida Burt
Hymenochaete sallei Berk. Et Curt.
Hymenochaete tabacina (Sow. Fr.) Lev
Pellicularia vaga (Berk. Et Curt.) Rog. Lind
Peniophora byssoides (Pers. Fr.) Bres ssp
tonentella (Bres.) Bourd Et Galz.
Peniophora cinerea (Fr.) Cooke.
Peniophora roumergueri Bres
Peniophora tenuis (Pat.) Mass
Phlebiella vaga (Fr.) Karst.
Stereum arenicolum Berk
Stereum australe Lloyd
Stereum albobadum (Schw.) Fr
Stereum cinerascens Schw
Stereum complicatum (Fr.) Fr
Stereum craspedium (Fr.) Burt.
Stereum crassum Fr.
Stereum durum Burt
Stereum fasciatum Schw.
Stereum fructulosus Fr
Stereum galeottii Berk.
Stereum gausapatum Fr
Stereum heterosporum Burt.
Stereum hirsutum (Fr. Willd.) Gray
Stereum illudens Berk.
Stereum lobatum (Kunze) Fr.
Stereum ochraceo-flavum (Schw.) Ell.
Stereum ostrea (Blum. et Ness. Fr.) Fr.
Stereum papyrinum Mont.
Stereum pergamum Berk. Et Curt.
Stereum purpureum (Pers. Ex Fr.) Fr.
Stereum radians Fr
Stereum radiatum Peck.
Stereum rameale Schw
Stereum ravenelii Berk et Curt.

Stereum rugosiusculum Berk. Et Curt.
Stereum rugosum Fr
Stereum sanguinolentum (Ajb. Et Schw. Fr.) Fr
Stereum saxilis Burt.
Stereum sepium Burt.
Stereum sericeum Schw.
Stereum spumeum Burt.
Stereum striatum (Fr.) Fr
Stereum strumosum Fr
Stereum subpileatum Berk
Stereum sulphuratum Berk. et Rav
Stereum tenuissimum Berk
Stereum versicolor (Sw.) Fr
Thelephora craspedia Fr
Treichispora diademifera (Bourd. Et Galz.) Rog
Veluticeps berkeleyi Berk. et Curt
Xylobolus frustulatus (Pers.) Fr.) Boid

Clavariaceae

Clavaria amethystina Fr
Clavaria aurea Schaeff.: Fr.
Clavaria botrytis Pers. Fr
Clavaria cinerea Bull. Fr
Clavaria flava Schaeff.: Fr.
Clavaria formosa Fr.
Clavaria fuscescens Fr.
Clavaria pistillaris Fr.
Clavaria polita Fr
Clavaria stricta Pers.: Fr.
Clavaria truncata Quel
Clavariadelphus pistillaris (Ver *Clavaria pistillaris*)
Clavariadelphus truncatus (Ver *Clavaria truncata*)
Clavulina cinerea (Ver *Clavaria cinerea*)
Clavulina cristata (Fr.) Schroet
Clavulina cristata var *fimbriata* Fr.
Ramaria flava (Ver *Clavaria flava*)
Ramariopsis kuntzei (Fr.) Donk.

Myxomicidaceae

Myxomicidium limpidum Heim

Cantharellaceae

Cantharellus cibarius Fr.
Cantharellus floccosus (Ver *Gomphus floccosus*)
Cantharellus mexicanus Fr
Cantharellus odoratus (Ver *Craterellus confluens*)
Craterellus confluens Berk. Et Curt.
Gomphus floccosus (Schw.) Sing.

Hydnaceae

Auriscalpium vulgare Gray
Hericeum caput-ursi (Fr.) Corner
Hericeum coralloides Pers. Gray
Hericeum erinaceum (Bull.) Pers
Hydnochaete setosa Sw.
Hydnum imbricatum L.: Fr. (Ver *Sarcodon imbricatum*)
Hydnum repandum L. (Ver *Sarcodon repandum*)
Hydnum schizodon Lev
Irpex galzini Bres.
Irpex pallescens Fr.
Phaeophlebia strigoso-zonata (Schw.) Cooke
Sarcodon imbricatum L.: Fr.
Sarcodon repandum L. Quel.
Sarcodon laevigatum (Sw.) Karst
Steecherium crassiusculum Hart.
Steecherium rhois (Schw.) Banker

Bandala et al. 1987 (compilación 1970-1986)

Coniophoraceae

Coniophora cerebella Pers.
Coniophora inflata Burt.
Coniophora submembranaceae (Berk. & Br.) Sacc.

Corticaceae

- Athelia septentrionalis* J. Erikss. (Ver *Fibulomyces septentrionalis*)
Aleurodiscus strumosus (Fr.) Burt.
Aleurodiscus acerinus (Pers.) Höhn & Litsch
Aleurodiscus diffissus (Sacc.) Burt.
Aleurodiscus disciformis (DC.) Pat.
Corticium armeniacum Sacc.
Corticium caeruleum (Schröd.: Pers.)
Corticium filamentosum (Berk. & Curt.) Grevillea (Ver *Phanerochaete filamentosa*)
Corticium sphaerosporum (Maire) Höhn. & Litsch
Corticium sereum (Pers.) Bres. (Ver *Rogersella sambuci*)
Cryptochaete rufa (Fr.) Karst. [= *Peniophora rufa* (Fr.) Boid.; *Stereum rufum* Fr.]
Dendrocorticium roseocarneum (Schw.) Larsen & Gilb. [= *Stereum roseocarneum* (Schw.) Fr.]
Fibulomyces septentrionalis (J. Erikss.) Jülich
 [-*Athelia septentrionalis* Erikss.]
Hyphodontia arguta (Fr.) J. Erikss.
Hyphodontia barba-jovis (Fr.) Eriks
Hyphoderma argillaceo (Pers.) Donk.
Hyphoderma puberum (Fr.) Wall.
Hyphoderma setigerum (Fr.) Donk.
Laeticorticium durangensis Larsen & Gilb.
Oxydonthia macrodon (Fr.) Miller
Peniophora affinis Burt. (Ver *Phanerochaete affinis*)
Peniophora coccineo-fulva (Schw.) Burt (*Phlebia coccineo-fulva* Schw.)
Peniophora cremea (Bres.) Sacc. & Syd. (Ver *Phanerochaete cremea*)
Peniophora exigua Burt (Ver *Phanerochaete subiculosa*)
Peniophora exilis Burt
Peniophora filamentosa (Berk. & Curt) Burt, (Ver *Phanerochaete filamentosa*)
Peniophora gigantea (Fr.) Masee (Ver *Phlebia gigantea*)
Peniophora heterocystidia Burt
Peniophora hulca Burt
Peniophora mexicana Burt
Peniophora raveneli Cooke
Peniophora rufa (Fr.) Boid. (Ver *Cryptochaete rufa*)
Peniophora sambuci (Pers.) Burt (Ver *Rogersella sambuci*)
Peniophora similis (B. & C.) Masee
Peniophora stratosa Burt
Peniophora subiculosa Burt (Ver *Phanerochaete subiculosa*)
Peniophora sulphurina (Karst.) Höhn & Litsch (Ver *Phanerochaete sulphurina*)
Peniophora tamaricicola Biodin & Malenc.
Peniophora tephra (B. & C.) Cooke
Phlebia coccineo-fulva Schw. (Ver *Peniophora coccineo-fulva*)
Phlebia gigantea (Fr.) Donk [= *Peniophora gigantea* (Fr.) Masee]
Phlebia radicata Fr.
Phlebia zonata Berk & Curt
Phanerochaete affinis (Burt) Parm. (= *Peniophora affinis* Burt.)
Phanerochaete cremea (Bres.) Parm.
Phanerochaete filamentosa (Berk & Curt.) Burdsall
 [= *Corticium filamentosum* (Berk. & Curt.) Grev.; *Peniophora filamentosa* (B. & C.) Burt.]
Phanerochaete filamentosa (Berk. & Curt.) Parm. [= *P. filamentosa* (B. & C.) Burdsall]
Phanerochaete sordida (Karst.) Erikson & Ryvarden

- Phanerochaete subiculosa* (Burt). Burdsall
 (-*Peniophora exigua* Burt, *P. subiculosa* Burt)
Phanerochaete sulphurina (Karst.) Buding & Gilb.
 [-*Peniophora sulphurina* (Karst.) Höhn & Litsch]
Rogersella sambuci (Pers Fr) Liberta [*Peniophora sambuci* (Pers) Burt, *Corticium sereum* (Pers.) Bres]
Sistotrema suecicum Litsch Erikss
Subulicystidium brachysporum (Talbot & Green) Jülich
Subulicystidium longisporum (Pat.) Parm.
Subulicystidium meridense Oberw.
Treichispora farinacea (Fr.) Liberta
Treichispora vaga (Fr.) Liberta
Tubulicrinis angustus (Rogs. & Weres.) Donk
Tubulicrinis gracillina (E. & E. Rogers & Jacks.) Donk
Xenasma clematis (Bourd. & Galz.) Liberta
Xenasma vermiferum (Bourd.) Liberta

Cypellaceae

- Lachnella albobivolasens* (Alb & Schw : Fr.) Fr.
Leptoglozum laeve (Fr.) W B. Cke

Hymenochaetaceae

- Asterostrama cervicolor* (Berk. & Curt.) Masee
Asterostrama musciculum (B & C) Masee
Hydnochaete badia Bres.
Hymenochaete damaecornis Lmk. : Lev
Hymenochaete epichlora (Berk. & Cur.) Cooke
Hymenochaete leonina Berk. & Curt.
Hymenochaete rubiginosa Dickson: Lev.
Hymenochaete unguolata Burt.

Stereaceae

- Caripia montagnei* (Berk.) O.K (*Hypolysus montagnei* Berk.)
Cladoderis dendritica Pers.
Cotylidia aurantiaca (Pers.) Welden
Cymatoderma caperatum (Berk. & Mont.) Reid
Cymatoderma fuscum (Cke.) Reid
Hypolysus montagnei Berk. (Ver *caripia montagnei*)
Laxitextum bicolor (Pers.: Fr.) Lentz [*Stereum fuscum* Schröd: Quel., *S. bicolor* (Pers.)Fr.]
Stereum aurantiacum (Pers.) Lloyd (Ver *Cotylidia aurantiaca*)
Stereum bicolor (Pers.) Fr. (Ver *Laxitextum bicolor*)
Stereum ferreum Berk. & Curt.
Stereum frustulatum (Pers.:Fr.) Fckl. [= *Stereum frustulosum* (Pers.) Fr]
Stereum frustulatum var. *subpileatum* (Berk. & Curt.)
 Welden
Stereum frustulosum (Pers.) Fr. (Ver *Stereum frustulatum*)
Stereum fuscum Schröd Quel (Ver *Laxitextum bicolor*)
Stereum roseocarneum (Schw) Fr (Ver *Dendrocorticium roseocarneum*)
Stereum rufo-fulvum Mont.
Stereum rufum Fr
Stereum umbrinum Berk. & Curt
Stereum versiforme Berk. & Curt.

Telephoraceae

- Hypochnus albus* Burt
Hypochnus pallescens (Schw.) Burt. (Ver *Vararia pallescens*)
Lachnocladium aurantiacum (B. & Br.) Petch
Lopharia cinerascens (Schw.) G.H. Cunn
Lopharia crassa (Lev) (*Telephora crassa* Lev)
Phaeocyphellopsis ocracea (Hoffm. Pers.) Cooke

- Podoscypha aculeata* (B. & C.) Boid
Podoscypha nudula (Berk.) Pat.
Podoscypha ravenelli (Berk. & Curt.) Pat
Sparassis crispa Wulf Fr
Sparassis radicata Weir
Thelephora anthocephala var. *americana* (Pk.)
- Comer
Thelephora caryophylla Fr.
Thelephora cinerascens Schw. (Ver *Lopharia cinerascens*)
Thelephora crassa Lév (Ver *Lopharia crassa*)
Thelephora pallescens Schw. (Ver *Vararia pallescens*)
Thelephora terrestris Fr.
Tomentella subcalicicola M.T. Larsen
Vararia pallescens (Schw.) Rogers & Jackson
| *Thelephora pallescens* Schw.,
Hypochnus pallescens (Schw.) Burt.]
- Cantharellaceae
Cantharellus cibarius f. *pallidus* R. Sch.
Cantharellus cinnabarinus Schw.
Cantharellus concinnus Berk.
Cantharellus infundibuliformis Fr.
Cantharellus sinuosus Fr. (Ver *Pseudocraterellus sinuosus*)
Cantharellus tubaeformis Fr.
Craterellus cornucopioides L.: Pers.
Craterellus cornucopioides var. *medioporus* Comer
Craterellus cornucopioides var. *parvisporus*
- Heinem
Craterellus fallax (L.: Fr.) Pers.
Gomphus bonarii (Morse) Sing f. *bonarii*
Gomphus bonarii f. *novamexicanus* Petersen
Gomphus brunneus (Hennen.)
Gomphus clavatus Pers.: S.F. Gray
Gomphus floccosus ssp. *rainieriensis* (Smith)
- Petersen
Gomphus subclavaeformis (Berk.) Comer
Pseudocraterellus sinuosus (Fr.) Comer : Heinem.
(= *Cantharellus sinuosus* Fr.)
- Clavariaceae
Clavaria radiata Lév
Clavaria vermicularis Fr.
Clavicornia pyxidata (Fr.) Doty
Clavulina amethystinoides Peck.
Clavulina rugosa (Fr.) Schröter
Clavulinopsis cormiculata Schaeff.: Fr
Ramaria araiospora var. *rubella* Marr & Stuntz
Ramaria botrytis var. *holo-rubella* (Atk.) Comer
Ramaria cyanocephala (B. & C.) Comer
Ramaria flavobrunescens (Atk.) Comer
Ramaria fumigata (Pk.) Comer
Ramaria sp. aff. *guyanensis* (Pat.) Comer
Ramaria rubiginosa Marr. & Stuntz
Ramaria stricta var. *concolor* Comer
Ramaria subbotrytis (Coker) Comer
Ramaria subbotrytis var. *intermedia* Comer
Ramaria xanthosperma Peck.
- Hydnaceae
Echinodontium tinctorum (Ell. & Everh.) Ell & Everh.
Hydnum ferruginosum Fr
Odontia tenuissima Burt.
Phellodon amicus (Qué.)
Phellodon excentris-mexicana Baird
Phellodon niger (Fr.) Karst.
Stecchericium ochraceus (Pers.) S.F. Gray
Stecchericium seriatum (Lloyd) Mass G
Stecchericium seriatum var. *vitellinum* Mass G
Terrenodon serenus Mass G
- Villegas y Cifuentes 1988
Ramaria acris (Pk.) Comer
Ramaria apiculata (Fr.) Donk
Ramaria concolor (Comer) Petersen
Ramaria concolor f. *isugina* (Peck) Petersen
Ramaria flavula (Atk.) Petersen
Ramaria gracilis (Pers. Fr.) Qué.
Ramaria molleriana (Bres. & Roum.) Comer
Ramaria pseudogracilis Petersen
Ramaria rainieriensis Marr & Stuntz
Ramaria stricta (Pers. Fr.) Qué.
Ramaria suecica (Fr.) Donk
- Methven, A.S. 1990
Clavariadelphus fasciculatus Methven y Guzman
Clavariadelphus occidentalis Methven
- Cifuentes et al. 1990
Corticaceae
Merulius incarnatus Schw
Merulius tremellosus Schröter
Gomphaceae
Gomphus kaufmanni (Smith) Sing.
Thelephoraceae
Sarcodon fennicus (Karst.) Karst.
Sarcodon imbricatus (L.: Fr.) Karst.
- Clavariaceae
Clavariadelphus cokeri Wells & Kempton
- Auriscalpiaceae
Auriscalpium villipes
- Laferrière y Gilbertson, 1992
Cantharellaceae
Cantharellus minor Pk
Clavariaceae
Ramaria candida Comer
Ramaria rasilispora Marr & Stuntz.
- Corticaceae
Merulopsis ambiguus (Berk.) Ginns
Phlebia incarnata (Schw.) Nakasone & Burdsall
- Steccherinaceae
Steccherinum laeticolor (Berk. & Curt.) Banker
- Stereaceae
Stereum hirsutum (Willd. Fr.) S.F. Gray
Stereum ochraceo-flavum (Schw.) Ell
- Bandala y Montoya, 1993
Corticaceae
Aleurodiscus mirabilis (Berk. & Curt.) Hoehn & Litsch.
Cantharellaceae
Gloeocantharellus purpurascens (Hesler) Sing.
- Cifuentes, et al., 1993
Hymenochaete cinnamomea (Pers.) Bres.
Hymenochaete digitata Burt.
Ramaria rasilispora Marr & Stuntz
Sarcodon scabrosus (Fr.) Karst
- Valenzuela et al., 1996
Hydnochaete tabacina (Berk. & Curt.) Ryv.
- Sánchez-Jácóme y Guzmán-Dávalos, 1997
Thelephora arbuscula Comer
Thelephora cervicornis Comer
Thelephora griseozonata Cooke
Thelephora regularis var. *regularis* Schwein.
Thelephora regularis var. *multipartita* (Schwein.) Comer
Thelephora vialis Schwein.

ANEXO 2: Ejemplo de errores detectados en la importación de archivos por DELTA.
En los recuadros se explica de manera breve el tipo de error detectado por el programa durante la importación de los archivos a utilizar.

DELTA - IMPORT LOG
Dataset: Document2
Import directory: C:\rene\ARCHIVOSDELTA\PRUEBA\
Import begun Dec 17, 2001 12:54:28 pm

A continuación se aprecian dos archivos importados correctamente

Directives file: **specprueba3**
File type CONFOR
*SHOW Aphyllophorales
Import succeeded.

Directives file: **charsaph**
File type CONFOR
*SHOW Aphyllophorales-Lista de características. dic 11 2001
Import succeeded.

Como se puede apreciar abajo, al haber error el programa ubica la posición del mismo; indicando además el tipo, el número de carácter en el que se encuentra, así como el atributo encontrado. En todos estos casos solo se importan los Taxa que no presentaron errores en su codificación, de los incompletos únicamente es importado el nombre.

Directives file: **ITEMSPRU**
File type CONFOR
*SHOW Aphyllophorales-itemspru, 11 dic 2001
Error while reading attribute data for taxon "Acanthophysium bertii <(Lloyd) Biodin>"
Line number: 6
Error type: A bad or invalid symbol was found
Character number: 47
Attribute text: (2.4-3.2)
Taxon name added, but description omitted.

Aunque es posible el uso de paréntesis para los caracteres numéricos, en caso de no ser necesario, el programa lo llega a confundir con texto

Error while reading attribute data for taxon "Cantharellus concinnus <Berk.>"
Line number: 38
Error type: Dependency error
Character number: 53
Taxon name added, but description omitted.

En este caso debe revisarse el archivo SPECS donde se encuentra el Directive relativo a las dependencias

Error while reading attribute data for taxon "Chondrostereum purpureum <(Pers.:Fr.)Pouzar>"
Line number: 51
Error type: A bad or invalid symbol was found
Character number: 47
Attribute text: (2.4-4.0)
Taxon name added, but description omitted.

Error while reading attribute data for taxon "Chondrostereum purpureum <(Pers.:Fr.)Pouzar>"
Line number: 54
Error type: A taxon with this name is already present in the data base
Last text read: "<(Pers.:Fr.)Pouzar>/"
Taxon not imported.

Al hallarse dos taxa con el mismo nombre, únicamente se importará el primero.

Error while reading attribute data for taxon "Dendrothele griseo-cana <(Bres.)Bourdot & Galzin>"

Line number: 111

Error type: A bad or invalid symbol was found

Character number 39

Attribute text: <Blanco, ligeramente Beige>40,2

Taxon name added, but description omitted.

Error while reading attribute data for taxon "Phanerochaete crassa <(Lév.)Burds. >"

Line number: 214

Error type: A bad or invalid symbol was found

Character number: 1

[IThelephora crassa] Lév., [IStereum umbrinum] Berk. & M.A. Curt. non Fr., hom. Illeg.>2,3

Taxon name added, but description omitted.

En los taxa anteriores, el texto de la característica 39 no se encuentra debidamente separada de la 40, así como la característica 1 de la 2

Error while reading attribute data for taxon "Phanerochaete tuberculata <(P. Karst.) Parmasto>"

Line number: 223

Error type: Missing attribute data

Last text read: "70,"

Taxon name added, but description omitted.

El error aquí se aprecia al haber un espacio después de la coma(,) o no haber colocado el estado correspondiente a la característica 70

Error while reading attribute data for taxon "Phanerochaete ravenelii <(Cooke) Burds.>"

Line number: 240

Error type: Unmatched closing bracket found

Last text read: "39.Blanquecino-Beige>"

Taxon name added, but description omitted.

Este error fue debido a que únicamente se encontró el Bracket que cierra el texto

Import succeeded, with some taxa descriptions omitted or incomplete.

Aunque la importación es realizada, esta es incompleta

Import finished May 17, 2007 1:02:38 pm

1 file failed to import correctly!

ANEXO 3: ESPECIES DE Aphyllorphorales NO POROIDES CITADAS PARA MÉXICO. AGRUPADAS EN FAMILIAS

NEGRITAS: nombres con que fueron reportados para México.
NOMENCLATURA A LA IZQUIERDA EN USO ACTUAL
NOMENCLATURA A LA DERECHA SINÓNIMOS

EN USO ACTUAL	SINÓNIMOS
ALEURODISCACEAE	
<i>Acanthophysium bertii</i> (Lloyd) Boidin	<i>Aleurodiscus bertii</i> Lloyd
<i>Acanthophysium diffissum</i> (Sacc.) Parm.	<i>Aleurodiscus diffissus</i> (Sacc.) Burt
<i>Acanthophysium mirabile</i> (Berk. & M.A. Curt.) Parm.	<i>Aleurodiscus mirabilis</i> (Berk. & M.A. Curt.) Hoehn. & Litsch
<i>Aleurobotrys botryosus</i> (Burt) Boidin, Lanq., Gilles, Cand & Huguenev	<i>Aleurodiscus botryosus</i> Burt
<i>Aleurocystidiellum disciforme</i> (DC.:Fr.) Boidin, Terra & Lanq.	<i>Aleurodiscus disciformis</i> (DC.:Fr.) Pat.
<i>Aleurodiscus amorphus</i> (Pers.:Fr.) J.Schröt. In Cohn	
<i>Dendrothele acerina</i> (Pers.:Fr.) P.A. Lemke	<i>Aleurodiscus acerinus</i> (Pers.) Höhn & Litsch.
<i>Dendrothele candida</i> (Schwein.:Fr.) P.A. Lemke	<i>Aleurodiscus candidus</i> (Schwein.:Fr.) Burt
<i>Dendrothele griseo-cana</i> (Bres.) Bourdot & Galzin	<i>Aleurodiscus griseo-canus</i> (Bres.) Höhn. & Litsch
<i>Dendrothele seriata</i> (B.&C.) Lemke	
<i>Dendrothele strumosa</i> (Fr.) P.A. Lemke	<i>Stereum strumosum</i> Fr. <i>Aleurodiscus strumosus</i> (Fr.) Burt
ATHELIACEAE	
<i>Fibulomyces mutabilis</i> (Bres.) Jülich	<i>Corticium pelliculare</i> (P. Karst.) P. Karst.
<i>Fibulomyces septentrionalis</i> (J. Erikss.) Jülich	[= <i>Athelia septentrionalis</i> J. Erikss.]
AURISCALPIACEAE	
<i>Auriscalpium villipes</i> (Lloyd) Snell & E.A. Dick	
<i>Auriscalpium vulgare</i> S.F. Gray	
BANKERACEAE	
<i>Phellodon amicus</i> (Quél.) Banker	
<i>Phellodon excentrimexicanus</i> Baird	
<i>Phellodon niger</i> (Fr.) P. Karst.	
BOTRYOBASIDIACEAE	
<i>Botryobasidium vagum</i> (Berk. & M.A. Curt.) D.P. Rogers	<i>Pellicularia vaga</i> (Berk. & M.A. Curt.) Rog.: Lind
CANTHARELLACEAE	
<i>Cantharellus cibarius</i> Fr.	
<i>Cantharellus cibarius f. pallidus</i> R. Sch.	
<i>Cantharellus cinnabarinus</i> Schw.	
<i>Cantharellus concinnus</i> Berk.	
<i>Cantharellus infundibuliformis</i> Fr.	
<i>Cantharellus mexicanus</i> Fr.	
<i>Cantharellus minor</i> Pk.	
<i>Cantharellus tubaeformis</i> Fr.	
<i>Craterellus confluens</i> Berk. & Curt.	
<i>Craterellus cornucopioides</i> L.: Pers.	
<i>-Craterellus cornucopioides var. mediosporus</i> Corner	
<i>-Craterellus cornucopioides var. parvisporus</i> Heinem	
<i>Craterellus fallax</i> A.H. Smith	
<i>Gloeocantharellus purpurascens</i> (Hesler) Sing.	
<i>Pseudocraterellus sinuosus</i> (Fr.) Corner	(= <i>Cantharellus sinuosus</i> Fr.)
CHAETOPORELLACEAE	
<i>Amphinema tomentellum</i> (Bres.) M.P. Christ.	<i>Peniophora byssoides</i> (Pers.:Fr.) Bres. ssp <i>tomentella</i> (Bres.) Bourd. & Galz.
CLAVARIACEAE	

<i>Clavaria amethystina</i> Fr. Bulliard	
<i>Clavaria aurea</i> Schaeff.: Fr.	
<i>Clavaria formosa</i> Pers.	
- <i>Clavaria fuscescens</i> Fr.	
- <i>Clavaria polita</i> Fr.	
- <i>Clavaria radiata</i> Lév.	
<i>Clavaria stricta</i> Pers.	
- <i>Clavaria truncata</i> Quel.	
<i>Clavaria vermicularis</i> Swartz	
<i>Clavariadelphus cokeri</i> Wells & Kempton	
<i>Clavariadelphus pistillaris</i> (L.) Donk	<i>Clavaria pistillaris</i> L.
<i>Clavulina amethystinoides</i> (Peck.) Corner	
<i>Clavulina cinerea</i> (Fr.) J. Schröt.	<i>Clavaria cinerea</i> Bull.:Fr.
<i>Clavulina cristata</i> (Holmskjöld) J.Schroeter in Cohn.	
<i>Clavulina cristata</i> var. <i>fimbriata</i> Fr.	
<i>Clavulina rugosa</i> (Bulliard) J. Schröeter	
<i>Clavulinopsis corniculata</i> (J. Schaeffer) Corner	
<i>Ramaria acris</i> (Pk.) Corner	
<i>Ramaria araiospora</i> var. <i>rubella</i> Marr & Stuntz	
<i>Ramaria apiculata</i> (Fr.) Donk	
<i>Ramaria botrytis</i> (Pers.: Fr.) Ricken	<i>Clavaria botrytis</i> Pers.:Fr.
- <i>Ramaria botrytis</i> var. <i>holo-rubella</i> (Atk.) Corner	
<i>Ramaria candida</i> Corner	
<i>Ramaria concolor</i> (Corner) Petersen	<i>Ramaria stricta</i> var. <i>concolor</i> Corner
<i>Ramaria concolor</i> f. <i>tsugina</i> (Peck) Petersen	
<i>Ramaria cyanocephala</i> (B. & C.) Corner	
<i>Ramaria flava</i> Donk	<i>Clavaria flava</i> (Tounefort : Batarra) J. Schffer
<i>Ramaria flavobrunescens</i> (Atk.) Corner	
<i>Ramaria flavula</i> (Atk.) Petersen	
<i>Ramaria fumigata</i> (Pk.) Corner	
<i>Ramaria gracilis</i> (Pers.: Fr.) Quél.	
<i>Ramaria mulleriana</i> (Bres. & Roum.) Corner	
<i>Ramaria pseudogracilis</i> Petersen	
<i>Ramaria rainierensis</i> Marr. & Stuntz	
- <i>Ramaria rasilispora</i> Marr & Stuntz.	
- <i>Ramaria rubiginosa</i> Marr. & Stuntz	
<i>Ramaria stricta</i> (Pers.:Fr.)Quél.	
<i>Ramaria subbotrytis</i> (Coker) Corner	
- <i>Ramaria subbotrytis</i> var. <i>intermedia</i> Corner	
<i>Ramaria suecica</i> (Fr.) Donk	
<i>Ramaria</i> sp. aff. <i>guyanensis</i> (Pat.) Corner	
- <i>Ramaria xanthosperma</i> Peck	
<i>Ramariopsis kuntzei</i> (Fr.)Corner	

CLAVICORONACEAE

<i>Clavicornia pyxidata</i> (Pers.:Fr.) Doty
--

CONIOPHORACEAE

<i>Coniophora olivacea</i> (Fr.: Pers.)P. Karst.	
<i>Coniophora puteana</i> (Schumacher Fr.)P. Karst.	<i>Coniophora cerebella</i> (Pers.) Pers.
- <i>Coniophora roseum</i> Pers.	
<i>Coniophora submembranacea</i> (Berk. & Br.) Sacc.	<i>Coniophora inflata</i> Burt

CORTICIACEAE

<i>Oxydontia macrodon</i> (Persoon) Miller
--

CYLINDROBASIDIACEAE

<i>Ceraceomyces sulphurinus</i> (P. Karst.) J.Erikss & Rvarden	<i>Phanerochaete sulphurina</i> (P. Karst.) Budington & Gilb. [= <i>Peniophora sulphurina</i> (P. Karst.)Höhn & Listsch.]
<i>Ceraceomyces tessulatus</i> (Cooke) Juhich	<i>Corticium apiculatum</i> Bres.

CYPHELLACEAE*Leptoglossum laeve* (Fr.) W.B. Cke.**CYPELLOPSIDACEAE***Merismodes ochraceus* (Hoffm. Fr.) D. A. Reid*Phaeocyphellopsis ocracea* (Hoffm.) Cooke**ECHINODONTIACEAE***Echinodontium tinctorium* (Ellis & Everh.) Ellis & Everh.**GLOEOCYSTIDIACEAE***Gloeocystidiellum porosum* (Berk. & M. A. Curt.) Donk*Corticium stramineum* Bres. In Brinkmann*Laxitextum bicolor* (Pers.: Fr.) Lentz**GOMPHACEAE***Gomphus bonarii* (Morse) Sing. f. *bonarii*-*Gomphus bonarii* f. *novamexicanus* Petersen-*Gomphus brunneus* (Hennen.)*Gomphus clavatus* Pers.: S. F. Gray*Gomphus floccosus* (Schw.) Sing.-*Gomphus floccosus* ssp. *rainieriensis* (Smith) Petersen-*Gomphus kaufmannii* (Smith) Sing.*Gomphus subclaviformis* (Berk.) Corner**HERICIACEAE***Heridium americanum* Ginns*Heridium caput-ursi* (Fr.) Banker*Heridium coralloides* (Scop.: Fr.) S. F. Gray*Heridium ramosum* (Bull.) Letell.*Heridium erinaceus* (Bull. Fr.) Pers.*Steccheridium seriatum* (C. G. Lloyd) Maas Geest.*Steccheridium seriatum* var. *vitellinum* Maas Geest.**HYDNACEAE***Hydnum ferruginosum* Fr.*Hydnum schizodon* Lév.-*Odontia tenuissima* Burt.*Sarcodon fennicus* (P. Karst.) P. Karst.*Sarcodon imbricatus* (L.: Fr.) P. Karst.*Sarcodon laevigatus* (Sw.) P. Karst.*Sarcodon repandus* L. Quel.*Sarcodon scabrosus* (Fr.) Karst.-*Terrenodon serenus* Mass G.**HYMENOCHAETACEAE***Asterostroma cervicolor* (Berk. & M. A. Curt.) Masee*Asterostroma muscicola* (Berk. & M. A. Curt.) Masee*Hydnochaete badia* Bres.*Hydnochaete setosa* Sw.*Hydnochaete tabacina* (Berk. & Curt.) Ryv.*Hymenochaete cinnamomea* (Pers.) Bres.*Hymenochaete damaecornis* Link. : Lev.*Hymenochaete digitata* Burt.*Hymenochaete epichlora* (Berk. & M. A. Curt.) Cooke*Hymenochaete leonina* Berk. & M. A. Curt.*Hymenochaete opaca* Burt.*Hymenochaete pallida* Cooke & Mass. In Mass.*Hymenochaete pinnatifida* Burt.

<i>Hymenochaete rubiginosa</i> (Dicks.: Fr.) Lév.
<i>Hymenochaete sallei</i> Berk. & M.A. Curt.
<i>Hymenochaete tabacina</i> (Sowerby:Fr.) Lév.
<i>Hymenochaete unguolata</i> Burt

HYPHODERMATACEAE

<i>Cerocorticium confluens</i> (Fr.:Fr.) Jülich & Stalpers	<i>Corticium confluens</i> Fr.
<i>Cerocorticium molle</i> (Berk. & M.A. Curt.) Jülich	<i>Corticium armeniacum</i> Sacc. <i>Corticium ceraceum</i> Berk & Ravenel: Masee
<i>Hyphoderma argillaceum</i> (Pers.) Donk	
<i>Hyphoderma heterocystidia</i> (Burt) Donk	<i>Peniophora heterocystidia</i> Burt
<i>Hyphoderma praetermissum</i> (P. Karst.) J. Erikss	<i>Peniophora tenuis</i> (Pat.) Masee sensu Aucts
<i>Hyphoderma puberum</i> (Fr.:Fr.) Wallr.	
<i>Hyphoderma sambuci</i> (Pers.) Jülich	<i>Rogersella sambuci</i> (Pers.:Fr) Liberta [= <i>Peniophora sambuci</i> (Pers.) Burt;
<i>Hyphoderma setigerum</i> (Fr.:Fr.) Donk	
<i>Hypochnicium vellereum</i> (Ellis & Cragin) Parm.	<i>Corticium vellereum</i> Ellis & Cragin

LACHNOCLADIACEAE

<i>Dichostereum pallescens</i> (Schwein.) Boidin & Lanq.	<i>Vararia pallescens</i> (Schwein.) D.P. Rogers & H. Jackson [= <i>Telephora pallescens</i> Schwein.; <i>Hypochnus pallescens</i> (Schwein.) Burt]
<i>Lachnocladium aurantiacum</i> (B. & Br.) Petch	
<i>Scytinostroma portentosum</i> (Berk. & M.A. Curt. In Berk.) Donk.	<i>Corticium portentosum</i> Berk. & M.A. Curt. in Berk.
<i>Scytinostroma protrusum</i> subsp. <i>protrusum</i> (Burt) Nakasone	<i>Corticium protrusum</i> Burt.
<i>Vararia investiens</i> (Schw.) P. Karst.	<i>Corticium investiens</i> (Schwein.) Bres.

MERULIACEAE

<i>Chondrostereum purpureum</i> (Pers.:Fr.) Pouzar	<i>Stereum purpureum</i> Pers.:Fr.
<i>-Merulius lacrymans</i> (Wulf.:Fr.) Schum	
<i>Phlebia chrysocrea</i> (Berk. & Curt.) Burds. in Lombard, Burd. & Gilb.	<i>Corticium chrysocreas</i> Berk. & M.A. Curt. In Berk.
<i>Phlebia coccineo-fulva</i> Schwein.	<i>Peniophora coccineo-fulva</i> (Schwein.) Burt (= <i>Phlebia coccineo-fulva</i> Schwein.)
<i>Phlebia incarnata</i> (Schwein.) Nakasone & Burds. in Nakasone, Burdas. & Noll	<i>Merulius incarnatus</i> Schwein.
<i>Phlebia merismoides</i> (Fr.:Fr.) Fr.	<i>Phlebia radiata</i> Fr.
<i>Phlebia tremellosus</i> (Schrad.:Fr.) Nakasone & Burds.	<i>Merulius tremellosus</i> Schrad.: Fr.

PENIOPHORACEAE

<i>Dendrophora albobadia</i> (Schwein.:Fr.) Chamuris	<i>Stereum albobadium</i> (Schwein.) Fr <i>Stereum heterosporum</i> Burt.
<i>Dendrophora versiformis</i> (Berk. & M.A. Curt.) Chamuris	<i>Stereum versiforme</i> Berk. & M.A. Curt.
<i>Peniophora cinerea</i> (Pers.:Fr.) Cooke.	
<i>Peniophora mexicana</i> Burt	
<i>Peniophora rufa</i> (Fr.) Boidin	<i>Cryptochaete rufa</i> (Fr.) P. Karst. [= <i>Stereum rufum</i> (Fr.) Fr.]
<i>Peniophora similis</i> (Berk. & M.A. Curt.) Masee	
<i>Peniophora tamaricicola</i> Boidin & Malençon In Boidin	
<i>-Peniophora tephra</i> (B. & C.) Cooke	

PHANEROCHAETACEAE

<i>Meruliopsis ambiguus</i> (Berk.) Ginns.	
<i>Phanerochaete affinis</i> (Burt) Parm.	(= <i>Peniophora affinis</i> Burt)
<i>Phanerochaete crassa</i> (Lév.) Burds	<i>Lopharia crassa</i> (Lév.) Boidin (= <i>Telephora crassa</i> Lev) <i>Stereum umbrinum</i> Berk. & M.A. Curt. non Fr., hom. Illeg.
<i>Phanerochaete exilis</i> (Burt) Burds.	<i>Peniophora exilis</i> Burt
<i>Phanerochaete filamentosa</i> (Berk. & M.A. Curt.) Burds.	[= <i>Corticium filamentosum</i> (Berk. & M.A. Curt.) Grev.; <i>Peniophora filamentosa</i> (Berk. & M.A. Curt.) Burt]

	<i>Peniophora filamentosa</i> (Berk. & M.A. Curt.) Parm.
<i>Phanerochaete gigantea</i> (Fr. Fr.) S.S. Rattan <i>et al</i>	<i>Phlebia gigantea</i> (Fr.) Donk [= <i>Peniophora gigantea</i> (Fr.) Masee]
<i>Phanerochaete hiulca</i> (Burt)Welden	<i>Peniophora hiulca</i> Burt
<i>Phanerochaete ravenelii</i> (Cooke) Burds	<i>Peniophora ravenelii</i> Cooke <i>Peniophora roumerguerii</i> (Bres.) Höhn. & Litsch. <i>Peniophora stratosata</i> Burt non Petch, hom. illeg
<i>Phanerochaete sordida</i> (P. Karst.) J.Erikss. & Ryv.	<i>Phanerochaete cremea</i> (Bres.) Parm.
<i>Phanerochaete subiculosa</i> (Burt). Bursdall	(= <i>Peniophora exigua</i> Burt, <i>Peniophora subiculosa</i> Burt)
<i>Subulicystidium brachysporum</i> (Talbot & Green) Jülich	
<i>Subulicystidium meridense</i> Oberw. In Clemençon	

PODOSCYPHACEAE

<i>Cotylidia aurantiaca</i> (Pers.) Welden	
<i>Cotylidia cyphelloides</i> (Berk. & Curt.) Weld.	
<i>Cotylidia diaphana</i> (Schwein.) Lentz	
<i>Cotylidia undulata</i> (Fr.) P. Karst.	
<i>Cymatoderma caperatum</i> (Berk. & Mont.) D.A. Reid	
<i>Cymatoderma dendriticum</i> (Pers.) Reid.	
<i>Cymatoderma fuscum</i> (Cooke) D.A. Reid	
<i>Podoscypha aculeata</i> (Berk. & M.A. Curt.) Baidin	
<i>Podoscypha nitidula</i> (Berk.) Pat. In Duss	
<i>Podoscypha ravenelii</i> (Berk. & M.A. Curt.) Pat.	<i>Stereum ravenelii</i> Berk & M.A. Curt.

PUNCTULARIACEAE

<i>Punctularia strigoso-zonata</i> (Schwein.) Talbot	<i>Phaeophlebia strigoso-zonata</i> (Schwein.) Cooke <i>Phlebia zonata</i> Berk & M.A. Curt.
--	---

SISTOTREMATACEAE

<i>Phlebiella sulphurea</i> (Pers. Fr.) Ginss	<i>Phlebiella vaga</i> (Fr.) P. Karst. <i>Trechispora vaga</i> (Fr.:Fr.) Liberta
<i>Sistotrema diademiferum</i> (Bourdot & Galzin) Donk	<i>Trechispora diademifera</i> (Bourdot & Galzin) Rog
<i>Sistotremastrum succicum</i> Litsch. Erikss	<i>Sistotrema succicum</i> Litsch: Erikss.
<i>Trechispora farinacea</i> (Pers.:Fr.) Liberta	<i>Corticium sphaerosporum</i> (Maire) Höhn. & Litsch.

SPARASIDACEAE

<i>Sparassis crispa</i> (Wulf.: Fr.) Fr.	<i>Sparassis radicata</i> Weir
--	--------------------------------

STECCHERINACEAE

<i>Ipex galzini</i> Bres.	
<i>Ipex pallescens</i> Fr.	
<i>Steccherinum crassiusculum</i> K.A. Harrison (Berk. & Curt) Banker	
<i>Steccherinum laeticolor</i> (Berk. & M.A. Curt.) Banker	
<i>Steccherinum ochraceum</i> (Pers.:Fr.) S.F. Gray	<i>Steccherinum rhois</i> (Schwein.) Banker

STEREACEAE

<i>Boreostereum radiatum</i> (Peck) Parm.	<i>Stereum radiatum</i> Peck
<i>Caripia montagnei</i> (Berk.) O.Kuntze	<i>Hypolyssus montagnei</i> Berk
<i>Cladoderris dendritica</i> (Pers.) Berk.	
<i>Lopharia cinerascens</i> (Schwein.) G.H. Cunn.	<i>Stereum cinerascens</i> (Schwein.) Masee
<i>Lopharia papyrina</i> (Mont.) Boidin	<i>Stereum papyrinum</i> Mont.
<i>Stereum arenicola</i> Berk. In Masee	<i>Stereum areniculum</i> Berk.
<i>Stereum australe</i> Lloyd	
<i>Stereum craspedium</i> (Fr.) Burt	<i>Thelephora craspedia</i> Fr
<i>Stereum crassum</i> (Lev.) Fr.	
<i>Stereum durum</i> Lloyd	
<i>Stereum ferreum</i> Berk. & Curt.	
<i>Stereum galeottii</i> Berk.	
<i>Stereum gausapatum</i> (Fr.:Fr.) Fr.	

<i>Stereum hirsutum</i> (Willd.:Fr.) S.F.Gray	<i>Stereum complicatum</i> (Fr.:Fr.) Fr. <i>Stereum rameale</i> (Schw.)Burt
<i>Stereum illudens</i> Berk.	
<i>Stereum ochraceoflavum</i> (Schwein.)Peck	<i>Stereum sulphuratum</i> Berk. & Ravenel in Berk. & M.A. Curt.
<i>Stereum ostrea</i> (Blume & Nees.:Fr.)Fr.	<i>Stereum fasciatum</i> (Schwein.)Fr. <i>Stereum lobatum</i> (Kuntze:Fr.)Fr.
<i>Stereum pergamenum</i> Berk. & Curt.	
<i>Stereum radians</i> Fr.	
<i>Stereum rufo-fulvum</i> (Mont.) Pat. & Lagerheim	
<i>Stereum rugosiusculum</i> Berk. & Curt. In Berk	
<i>Stereum rugosum</i> Pers.: Fr.	
<i>Stereum sanguinolentum</i> (Alb. & Schwein.:Fr.)Fr.	
<i>Stereum saxifas</i> Burt	
<i>Stereum spumeum</i> Burt	
<i>Stereum striatum</i> (Fr.:Fr.)Fr.	<i>Stereum sericeum</i> (Schwein.)Sacc.
<i>Stereum tenuissimum</i> Berk.	
<i>Stereum versicolor</i> (Sw.:Fr.)Fr.	
<i>Leuliceps berkeleyi</i> (Berk. & M.A. Curt.)Cooke	
<i>Xylobolus frustulatus</i> (Pers.:Fr.)P. Karst	<i>Stereum frustulatum</i> (Pers.:Fr.) Fr.
<i>Xylobolus subpileatus</i> (Berk. & M.A. Curt.) Boidin	<i>Stereum frustulatum</i> (Pers.:Fr.)Fueckel var. <i>subpileatum</i> (Berk. & M.A. Curt.) Welden

THELEPHORACEAE

<i>Thelephora anthocephala</i> var. <i>americana</i> (Peck) Corner.
<i>Thelephora arbuscula</i> Corner
<i>Thelephora caryophyllea</i> Fr.:Fr.
<i>Thelephora cervicornis</i> Corner
<i>Thelephora griseozonata</i> Cooke
<i>Thelephora regularis</i> var. <i>multipartita</i> (Schwein.)Corner
<i>Thelephora regularis</i> var. <i>regularis</i> Schwein.
<i>Thelephora terrestris</i> Ehrh.:Fr.
<i>Thelephora vialis</i> Schwein.
<i>Tomentella subcalciicola</i> M.J.Larsen

TUBULICRINACEAE

<i>Subulicystidium longisporum</i> (Pat.) Parm.	
<i>Tubulicium clematidis</i> (Bourd. & Galzin) Oberw	<i>Xenasma clematidis</i> (Bourd. & Galzin) Liberta <i>Hypochnus albus</i> Burt
<i>Tubulicium vermifera</i> (Bourd.)Oberw	<i>Xenasma vermiferum</i> (Bourd.) Liberta
<i>Tubulicrinis angustus</i> (D.P.Rogers. & Weresub) Donk	
<i>Tubulicrinis glebulosus</i> (Bres.)Donk	<i>Tubulicrinis gracillima</i> (E. & E.: Rogers & Jacks.) Donk

VUILLEMINIACEAE

<i>Corticium adhaesum</i> Burt.	
<i>Corticium contractum</i> Fr.	
<i>Corticium durangense</i> (Larsen & Gilb.)Boidin & Lanq	<i>Laeticorticium durangense</i> Larsen & Gilb.
<i>Corticium mexicanum</i> Burt.	
<i>Corticium murrilli</i> Burt.	
<i>Corticium pannosum</i> Fr.	
<i>Corticium roseum</i> Pers.:Fr.	
<i>Dendrocorticium roseocarneum</i> (Schwein.) M. Larsen & Gilb.	[= <i>Stereum roseocarneum</i> (Schwein.) Fr.]
<i>Pulcherricium caeruleum</i> (Lamarck Fr.)Parm.	<i>Corticium caeruleum</i> Lam.:Fr.

INCIERTA

<i>Grandina arguta</i> (Fr.:Fr) Jülich	<i>Hyphodontia arguta</i> (Fr.:Fr.) J. Erikss.
<i>Grandina barba-jovis</i> (Fr.:Fr.)Jülich	<i>Hyphodontia barba-jovis</i> (Fr.:Fr.) J. Erikss.
<i>Megalocystidium lactescens</i> (Berk.)Julich	<i>Corticium lactescens</i> (Berk.) Berk.

ANEXO 4: Erratas encontradas en los reportes de Aphylophorales no poroides de México

a) Especies con Diferente autor o diferencias en la nomenclatura

Reportado	debe ser
<i>Aleurodiscus griseo-canus</i>	<i>A. griseo-canus</i>
<i>Asterostroma musciculum</i>	<i>A. muscicola</i>
<i>Cladoderris dendritica</i> Pers	<i>Cladoderris dendritica</i> (Pers.) Berk.
<i>Clavaria amethystina</i> Fr.	<i>Clavaria amethystina</i> Bulliard
<i>Clavaria flava</i> Schaeff.:Fr.	<i>Clavaria flava</i> (Tounefort ; Batarra) J. Schiffer
<i>Clavaria formosa</i> Fr.	<i>Clavaria formosa</i> Pers.
<i>Clavaria pistillaris</i> Fr.	<i>Clavaria pistillaris</i> L.
<i>Clavaria stricta</i> Pers.:Fr.	<i>Clavaria stricta</i> Pers.
<i>Clavaria vermicularis</i> Fr.	<i>Clavaria vermicularis</i> Swartz
<i>Clavulina amethystinoides</i> Peck.	<i>Clavulina amethystinoides</i> (Peck.) Corner
<i>Clavulina cristata</i> (Fr.) Schroet	<i>Clavulina cristata</i> (Holmskjöld) J.Schroeter in Cohn
<i>Clavulina rugosa</i> (Fr.) Schröet	<i>Clavulina rugosa</i> (Bulliard) J. Schröter
<i>Clavulinopsis corniculata</i> Schaeff.: Fr.	<i>Clavulinopsis corniculata</i> (J. Schaeffer) Corner
<i>Corticium murrillini</i> Burt.	<i>Corticium murrilli</i> Burt.
<i>Craterellus fallax</i> (L.: Fr.)Pers.	<i>Craterellus fallax</i> A.H. Smith
<i>Gomphus subclavaeformis</i> (Berk.) Corner	<i>Gomphus subclaviformis</i> (Berk.) Corner
<i>Laeticorticium durangensis</i>	<i>L. durangense</i>
<i>Oxydonthia macrodon</i> (Fr.) Miller	<i>Oxydonthia macrodon</i> (Persoon) Miller
<i>Phellodon amicus</i> (Quél.)	<i>Phellodon amicus</i> (Quél.) Banker
<i>Phellodon excentrii-mexicana</i> Baird	<i>Phellodon excentrimexicanus</i> Baird
<i>Pseudocraterellus sinuosus</i> (Fr.) Corner : Heinem. (= <i>Cantharellus sinuosus</i> Fr.)	<i>Pseudocraterellus sinuosus</i> (Fr.) Corner (= <i>Cantharellus sinuosus</i> Fr.)
<i>Sarcodon laevigatum</i> (Sw.) P.Karst.	<i>Sarcodon laevigatus</i> (Sw.) P.Karst.
<i>Sarcodon repandum</i> L. Quel.	<i>Sarcodon repandus</i> L. Quel.
<i>Stereum crassum</i> Fr.	<i>Stereum crassum</i> (Lev.)Fr.
<i>Stereum durum</i> Burt.	<i>Stereum durum</i> Lloyd
<i>Stereum rugosiusculum</i> Berk. & Curt	<i>Stereum rugosiusculum</i> Berk. & Curt. In Berk.
<i>Stereum saxilas</i> Burt.	<i>Stereum saxitas</i> Burt
<i>Tomentella subcalcicola</i> M.T. Larsen	<i>Tomentella subcalcicola</i> M.J.Larsen

b) Errata tipográfica

Reportado	debe ser
<i>Corticium oelliculare</i> P Karst.	<i>C. pelliculare</i> P. Karst.
<i>Hericeum</i>	<i>Hericium</i>
<i>Treichispora</i>	<i>Trechispora</i>
<i>Contiophora submembranaceae</i>	<i>C. submembranacea</i>
<i>Aleurodiscus bertini</i> Lloyd	<i>A. bertii</i> Lloyd
<i>Aleurodiscus botryosus</i> Burt	<i>A. botryosus</i> Burt
<i>Phlebia radicata</i> Fr	<i>Phlebia radiata</i> Fr
<i>Peniophora roumegueri</i>	<i>P. roumeguerii</i>
<i>Xenasma clematis</i>	<i>X. clematidis</i>
<i>Telephora caryophylla</i>	<i>T caryophyllea</i>
<i>Gomphus kaufmanii</i>	<i>G. kauffmanii</i>
<i>Clavicornia pyxidata</i>	<i>C. pyxidata</i>
<i>Echinodontium tinctorum</i>	<i>E. tinctorium</i>
<i>Stereum perganum</i>	<i>S. pergamenum</i>

c) citados como Aphyllophorales

(DISCOMICETES) o Lachnellaceae

<i>Lachnella alboviolascens</i> (Alb. & Schwein.: Fr.) Fr.	<i>Cyphella alboviolascens</i> (Alb. & Schwein.: Fr.) P. Crouan & H. Crouan <i>Cyphellopsis alboviolascens</i> (Alb. & Schwein.:Fr.)Donk
--	---

Myxomicidiaceae

<i>Myxomicidium limpidum</i> Heim	<i>Mucronella</i>
-----------------------------------	-------------------

d) Inciertos en la sinonimia.

<i>Phlebia merismoides</i> (Fr.:Fr.)Fr.	<i>Phlebia radiata</i> Fr. ≡(<i>Phlebia radicata</i> Fr.)????
---	--

CHAETOPORELLACEAE

<i>Amphinema byssoides</i> (Pers.:Fr) J Erikss	<i>Peniophora byssoides</i> (Pers. Fr)Höhn & Litsch. ≡ <i>Peniophora byssoides</i> (Pers.:Fr.) Bres). ssp <i>tomentella</i> (Bres.) Bourd. & Galz.???? <i>Contiophora byssoides</i> (Pers.:Fr.)P. Karst. <i>Amphinema tomentellum</i> (Bres.)M. Christiansen
---	---

ANEXO 5. Parte de la base de datos de los Aphylophorales no poroides generada con el programa Access

01/02/02

Tablas Hongos

sinónimo de	id	genero	especie	autores	colector	numero
=	1	Dendrothele	mexicana	(Lemke)Lemke	Cain y Lemke	s/n
=	2	Dendrothele	mexicana	(Lemke)Lemke	Cain	s/n
=	3	Dendrothele	mexicana	(Lemke)Lemke	Cain	s/n
=	4	Hypodontia	arguta	(Fr.) J.Erikss.	Marmolejo	40
=	5	Hypodontia	sambuci	(Pers.) J. Eriksson	Alarcon-Guevara	142
=	9	Phanerochaete	affinis	(DC.:Fr.) Jülich	Guzmán	18531
=	10	Phanerochaete	cremea	(Bres.) Pam.	Mendoza	s/n
=	11	Phanerochaete	sulphurina	(Karst.)Budington et. Gib	Guzmán	3393
=	12	Tubulicrinis	gracilima	(E. & E.:Rogs. & Jacks)	Weiden	3899
=	13	Trechispora	farinacea	(Fr.)Lib	Guzmán	17251
=	14	Xenasma	vermiferum	(Bourd.)Liberta	Weiden & Weiss	3874
=	15	Peniophora	rufa	(Fr.)Boidin	Rodriguez-Guerr	s/n
=	16	Peniophora	rufa	(Fr.)Boidin	Rodriguez	717
=	17	Peniophora	rufa	(Fr.)Boidin	Guzmán	11265
=	18	Peniophora	rufa	(Fr.)Boidin	Guzmán	22263
=	19	Peniophora	rufa	(Fr.)Boidin	Valenzuela	26
=	20	Peniophora	cremea	(Bres.) Sacc. & Syd.	Weiden	3887
=	21	Peniophora	aff filamentosa	(Berk. & Curt.)Burt. Apud	Guzmán	7290
=	22	Peniophora	aurantiaca	Bress. In Bourdot & Galzi	Garcia	189
=	23	Peniophora	aurantiaca	Bress. In Bourdot & Galzi	Zavaleta-Molina	49
=	24	Peniophora	aurantiaca	Bress. In Bourdot & Galzi	Guzmán	7847
=	25	Peniophora	aurantiaca	Bress. In Bourdot & Galzi	Marroquin-Rojas	29
=	26	Peniophora	aurantiaca	Bress. In Bourdot & Galzi	Garcia	127
=	27	Byssomerulius	corium	(Fr.) Pam.	Ventura	11378
=	28	Byssomerulius	corium	(Fr.) Pam.	López	125
=	29	Byssomerulius	corium	(Fr.) Pam.	Ventura	11082
=	30	Byssomerulius	corium	(Fr.) Pam.	Ventura	13486
=	31	Merulius	incarnatus	Schw.	Santillán	751
=	32	Merulius	incarnatus	Schw.	Valenzuela	2285
=	33	Merulius	incarnatus	Schw.	Rodriguez	2549
=	34	Merulius	incarnatus	Schw.	Acosta	560
=	35	Merulius	incarnatus	Schw.	Santillán	268
=	36	Merulius	incarnatus	Schw.	Palacios-Rios	1068

Acambay	Acambay	Estado de Méxi	07/08/1961					ENCB, (HTU)
20 millas SW de Jacala	Jacala	Hidalgo	21/08/1961			Arbutus gland		ENCB, (HTU)
El Saito	Pueblo Nuevo	Durango	14/08/1960			Arbutus		ENCB, (HTU)
Tiopan, Carr. Tlaxco-Chign	Tlaxco	Tlaxcala	14/06/1980	2,800-3,00			Bosque de Abies religiosa c	ENCB
Chilpancingo	Chilpancingo	Guerrero	09/10/1978				Urbano	ENCB
Carr. Xochimilco a Waxtep		Morelos	21/09/1980				Bosque de Quercus y Algun	ENCB
Sur de Laguna de Sánchez	Santiago	Nuevo Leon	19/02/1979				Bosque de Quercus	ENCB
Cerca de las Adjuntas, regi	Pueblo Nuevo	Durango	18/09/1961	2,600		Pinus	Bosque de Pinus	ENCB
2-4 Millas de Cerro de Oro,		Oaxaca	24/07/1976				Vegetación Tropical	ENCB
Región Oeste de Minatitlán	Cosoleacaque	Veracruz	14/07/1978	60		Phellinus	Cafetal	ENCB
A onillas de la carretera ent		Veracruz	21/07/1976	0				ENCB
La Siberia	Arteaga	Coahuila	26/05/1980			Populus trem	Bosque de Abies con Pinus	ENCB
Arroyo Temazcal, SE de Pi		Durango	21/08/1982	2,350			Bosque de Populus rodeado	ENCB
La Siberia	Arteaga	Coahuila	15/08/1973	2,750			Bosque de Picea con Pinus,	ENCB
Arroyo Temazcal, SE de Pi		Durango	17/08/1982	2,380-2,48			Bosque de Pinus-Quercus	ENCB
La Siberia	Arteaga	Coahuila	13/09/1981				Bosque de Picea con Pinus,	ENCB
Oeste de Cosomaloapan	Cosomaloapan	Veracruz	23/07/1976				Potrero con Sabal y Arbusto	ENCB
Cerca de Coyame, lado E		Veracruz	23/06/1969	350			Bosque Tropical Perennifoli	ENCB
Desierto de los Leones		Distrito Federal	17/09/1967	2,800		Abietum		ENCB
La Marquesa, Parque Naci		Estado de Méxi	19/10/1970	2,800			Bosque de Abies	ENCB
Colonia Atlista, Sur de Tre		Morelos	28/06/1970	2,600			Bosque de Quercus y Pinus	ENCB
Parque Nacional Llano Gra		Estado de Méxi	26/07/1970	3,000			Bosque de coníferas	ENCB
Desierto de los Leones, N		Distrito Federal	24/05/1972	3,000			Bosque de Abies y Pinus	ENCB
El Mirador	Totutla	Veracruz	06/06/1975	1,000			Bosque de Quercus	ENCB
El volcancillo, Región de X		Veracruz	28/11/1971					ENCB
	Totutla	Veracruz		1,000			Bosque de Quercus	ENCB
Chapultepec, zona de Naol	Coatzintla	Veracruz	30/10/1976	1,450			Bosque de Pinus	ENCB
		Durango						ENCB
Trampa El Olvido, Reserv		Durango	01/09/1983	2,450			Bosque de Pinus-Quercus	ENCB
Alrededores de la Estación		Durango	02/09/1983	2,500			Bosque de Quercus con alg	ENCB
6 Km. Al NO de Monte Esc		Zacatecas	21/08/1980				Bosque de Quercus- Pinus	ENCB
Trampa El Olvido, Reserv		Durango	01/09/1983	2,450			Bosque de Pinus- Quercus	ENCB
Arroyo el Temazcal, SE de		Durango	15/11/1983	2,350			Bosque de Pinus	ENCB

ANEXO 6. Parte de la clave en formato HTML generada con el programa KEY



DELTA Sample Data

R. Andrade

Key 5a. Confirmatory characters

Characters: 83 in data, 57 included, 43 in key.

Items: 109 in data, 109 included, 200 in key.

Parameters: Rbase = 1.40 Abase = 2.00 Reuse = 1.01 Varywt = .80

Characters included: 2-15 17-19 21-23 25-26 29-30 32-33 36-38 44-46 48-49 51-52 54-59 62-68 70-75 78-79

Character reliabilities: 2-3,7.0 7-8,6.0 9,7.0 10,8.0 11-12,7.0 13-14,6.0 15,7.0 17-19,8.0 20-24,6.0 25-26,7.0 28,6.0 29-30,7.0 31,6.0 32,7.0 33-36,6.0 37,8.0 38-39,6.0 40,8.0 41-45,7.0 46-54,6.0 55,8.0 56-59,7.0 62-65,7.0 66,8.0 67-71,7.0 72,8.0 73-74,6.0 75,7.0 76-82,6.0

- 1(0).
 - Ornamentación lisas... 2
 - Ornamentación equinadas... 85
 - Ornamentación aculeadas... 101
 - Ornamentación granuladas... **Gomphus floccosus**
 - Ornamentación tuberculadas... 102
 - Ornamentación verruculosas... 106
 - Ornamentación verrugosas... 110

- 2(1).
 - Habitat terrícola... 3
 - Habitat lignícola... 20
 - Habitat micorrícico... **Clavariadelphus unicolor**
 - Habitat caulícola... 84

- 3(2).
 - Himenio liso... 4
 - Himenio ondulado... 8
 - Himenio granular... **Cymatoderma dendriticum**
 - Himenio con pliegues... 12
 - Himenio phlebioide... **Cymatoderma dendriticum**
 - Himenio dentado... **Hydnum repandum**
 - Himenio anfigeno... 15
 - Himenio laminillas... 17

- 4(3).
 - Pileo velutinoso... **Cotylidia undulata**
 - Pileo viloso... **Cotylidia cyphelloides**
 - Pileo glabro... 5

- 5(4).
 - Fíbulas simples... 6
 - Fíbulas ausentes... 7

- 6(5).
 - Estipite carnosa; basidiosporas oblongas to elipsoidales; pileo mate; basidios cilíndricos... **Cantharellus odoratus**
 - Estipite quebradiza; basidiosporas globosas to oblongas; pileo cuticular; basidios clavados... **Podoscypha nitidula**
- 7(5).
 - Estipite lateral; adhesión al substrato fácilmente separable; reacción xantocroica positiva; cistidios presentes... **Craterellus cornucopioides var parvisporus**
 - Estipite excéntrico; adhesión al substrato separable; reacción xantocroica negativa; cistidios ausentes... **Thelephora caryophyllea**
- 8(3).
 - Basidiosporas globosas to oblongas... 9
 - Basidiosporas oblongas to elipsoidales... 11
 - Basidiosporas lacrimoides to fusoides... **Cotylidia diaphana**
- 9(8).
 - Basidiocarpo estipitado; grosor de la pared gruesas... **Podoscypha nitidula**
 - Basidiocarpo pseudoestipitado; grosor de la pared delgadas... 10
- 10(9).
 - Pileo tomentoso; cistidios presentes; basidiosporas up to 5 micras de largo... **Cymatoderma dendriticum**
 - Pileo glabro; cistidios ausentes; basidiosporas 5 to 8 micras de largo... **Podoscypha aculeata**
- 11(8).
 - Fibulas simples; reacción xantocroica negativa; cistidios ausentes... **Cotylidia diaphana**
 - Fibulas ausentes; reacción xantocroica positiva; cistidios presentes... **Craterellus cornucopioides var parvisporus**
- 12(3).
 - Basidiosporas globosas to oblongas... **Podoscypha aculeata**
 - Basidiosporas oblongas to elipsoidales... 13
- 13
 - Estipite cilíndrico o tubular... 14
- (12).
 - Estipite subclavado o atenuado a la base... **Gomphus bonarii f. bonarii**
- 14
 - Estipite corchosa; fibulas ausentes; basidios clavados; afinidad geográfica subtropical... **Thelephora caryophyllea**
- (13).
 - Estipite carnosa; fibulas simples; basidios cilíndricos; afinidad geográfica tropical... **Cantharellus odoratus**
- 15(3).
 - Basidiosporas globosas to oblongas... **Clavulina rugosa**
 - Basidiosporas oblongas to elipsoidales... 16
 - Basidiosporas lacrimoides to fusoides... **Clavariadelphus unicolor**
 - Basidiosporas cilíndricas to angulares... **Clavulinopsis corniculata**
 - Basidiosporas reniformes... **Clavariadelphus fasciculatus**

ANEXO 7. Parte de la clave en formato RTF generada por el programa KEY

Key 5. Confirmatory characters

Characters: 83 in data, 57 included, 43 in key.

Items: 109 in data, 109 included, 200 in key.

Parameters: Rbase = 1.40 Abase = 2.00 Reuse = 1.01 Varywt = .80

Characters included: 2-15 17-19 21-23 25-26 29-30 32-33 36-38 44-46 48-49 51-52 54-59 62-68 70-75
78-79

Character reliabilities: 2-3,7.0 7-8,6.0 9,7.0 10,8.0 11-12,7.0 13-14,6.0 15,7.0 17-19,8.0 20-24,6.0 25-26,7.0
28,6.0 29-30,7.0 31,6.0 32,7.0 33-36,6.0 37,8.0 38-39,6.0 40,8.0 41-45,7.0 46-54,6.0 55,8.0 56-59,7.0 62-
65,7.0 66,8.0 67-71,7.0 72,8.0 73-74,6.0 75,7.0 76-82,6.0

1.	Ornamentación lisas.....	2
	Ornamentación equinadas.....	85
	Ornamentación aculeadas.....	101
	Ornamentación granuladas.....	Gomphus floccosus
	Ornamentación tuberculadas.....	102
	Ornamentación verruculosas.....	106
	Ornamentación verrugosas.....	110
2(1).	Habitat terrícola.....	3
	Habitat lignícola.....	20
	Habitat micorrícico.....	Clavariadelphus unicolor
	Habitat caulícola.....	84
3(2).	Himenio liso.....	4
	Himenio ondulado.....	8
	Himenio granular.....	Cymatoderma dendriticum
	Himenio con pliegues.....	12
	Himenio phlebioide.....	Cymatoderma dendriticum
	Himenio dentado.....	Hydnum repandum
	Himenio anfigeno.....	15
	Himenio laminillas.....	17
4(3).	Pileo velutinoso.....	Cotylidia undulata
	Pileo viloso.....	Cotylidia cyphelloides
	Pileo glabro.....	5
5(4).	Fíbulas simples.....	6
	Fíbulas ausentes.....	7
6(5).	Estipite carnosa; basidiosporas oblongas to elipsoidales; pileo mate; basidios cilíndricos.....	
	Cantharellus odoratus
	Estipite quebradiza; basidiosporas globosas to oblongas; pileo cuticular; basidios clavados.....	Podoscypa nitidula
7(5).	Estipite lateral; adhesión al substrato fácilmente separable; reacción xantocroica positiva; cistidios presentes.....	Craterellus cornucopioides var parvisporus
	Estipite excéntrico; adhesión al substrato separable, reacción xantocroica negativa, cistidios ausentes.....	Thelephora caryophyllea
8(3).	Basidiosporas globosas to oblongas.....	9
	Basidiosporas oblongas to elipsoidales.....	11
	Basidiosporas lacrimoides to fusoides.....	Cotylidia diaphana
9(8).	Basidiocarpo estipitado; grosor de la pared gruesas.....	Podoscypa nitidula
	Basidiocarpo pseudoestipitado, grosor de la pared delgadas.....	10

10(9).	Pileo tomentoso; cistidios presentes; basidiosporas up to 5 micras de largo . Cymatoderma dendriticum Pileo glabro; cistidios ausentes; basidiosporas 5 to 8 micras de largo	Podoscypha aculeata
11(8).	Fíbulas simples; reacción xantocroica negativa; cistidios ausentes Fíbulas ausentes; reacción xantocroica positiva; cistidios presentes Craterellus cornucopioides var parvisporus	Cotylidia diaphana
12(3).	Basidiosporas globosas to oblongas..... Basidiosporas oblongas to elipsoidales	Podoscypha aculeata 13
13(12).	Estipite cilíndrico o tubular 14 Estipite subclavado o atenuado a la base..... Gomphus bonarii f. bonarii	
14(13).	Estipite corchosa; fíbulas ausentes; basidios clavados; afinidad geográfica subtropical Thelephora caryophyllea Estipite carnosa; fíbulas simples; basidios cilíndricos; afinidad geográfica tropical Cantharellus odoratus	
15(3).	Basidiosporas globosas to oblongas..... Clavulina rugosa Basidiosporas oblongas to elipsoidales 16 Basidiosporas lacrimoides to fusoides Clavariadelphus unicolor Basidiosporas cilíndricas to angulares Clavulinopsis corniculata Basidiosporas reniformes Clavariadelphus fasciculatus	
16(15).	Estipite cilíndrico o tubular; adhesión al substrato fácilmente separable, arreglo hifal entrelazado, cistidios presentes..... Clavariadelphus unicolor Estipite subclavado o atenuado a la base; adhesión al substrato separable; arreglo hifal paralelo; cistidios ausentes..... Clavariadelphus occidentalis	
17(3).	Fíbulas simples; pileo glabro 18 Fíbulas ausentes; pileo tomentoso Cantharellus cinnabarinus	
18(17).	Basidiocarpo infundibuliforme 19 Basidiocarpo Pseudocraterellus sinuosus	
19(18).	Adhesión al substrato fácilmente separable; basidiosporas coloreadas Cantharellus minor Adhesión al substrato separable; basidiosporas hialinas o amarillentas . . . Cantharellus concinnus	
20(2).	Fíbulas simples 21 Fíbulas múltiples 69 Fíbulas ausentes..... 70	
21(20).	Cistidios presentes 22 Cistidios ausentes 41	
22(21).	Basidiosporas globosas to oblongas..... 23 Basidiosporas oblongas to elipsoidales 26 Basidiosporas lacrimoides to fusoides 38 Basidiosporas cilíndricas to angulares 39 Basidiosporas reniformes 40	
23(22).	Cistidios presentes Merismodes ochraceus Cistidios ausentes 24	
24(23).	Margen decurvado; cistidios ausentes; basidiocarpo pseudoestipitado Cymatoderma dendriticum Margen incurvado; cistidios presentes; basidiocarpo no estipitado 25	
25(24).	Cistidios hifoides Lopharia cinerascens Cistidios clavados Dendrophora albobadia Cistidios lageniformes Lopharia cinerascens	
26(22).	Himenio liso 27 Himenio ondulado Dendrophora albobadia	

ANEXO 8. Descripciones generadas por el programa CONFOR en formato TXT.

Acanthophysium bertii (Lloyd) Biodin

Aleurodiscus bertii Lloyd, *Aleurodiscus cremeus* Burt

Basidiocarpo no estipitado; efuso-reflejado; 0.1-0.4 cm de largo; 0.1-0.3 cm de ancho; 0.05-0.1 cm de alto o grosor; anual a bianual; quebradiza a cerosa. Adhesión al substrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica negativa.

Margen 0.5 mm de grosor; decurvado; desgarrado a apendiculado; Beige. Rizomorfos ausentes.

Contexto simple; Beige; 0.5 mm de grosor; cerosa.

Himeno liso a ondulado; seca; Beige, Ligeramente rosáceo.

CARACTERISTICAS MICROSCOPICAS. Setas ausentes. Sistema hifal monomítico. Arreglo hifal entrelazado. Hifas generativas hialinas; 2.4-3.2 micras de diámetro; grosor de la pared delgadas. Fibulas simples; en hifas generativas. Cistidios ausentes. Basidiosporas hialinas o amarillentas; globosas; 4-4.8 micras de largo; 4-4.8 micras de ancho. Promedio $Q = 1$. Reacción al KOH negativa; Melzer amiloides; ornamentación equinadas; grosor de la pared delgadas; terminación en la punta redondeadas, o truncadas. Basidios clavados; 20-24 micras de largo; 8-12 micras de ancho o diámetro; ausentes. Esterigmas 4; 3.6-4 micras de largo; 0.8 micras de ancho. OTRAS. Estructuras himeniales Dendrofitas abundantes, proyecciones con diferente longitud, de 20-28 Micras de largo y de 6.4-8.0 Micras de diámetro total. Cristales Abundantes en la trama del Himenio.

Acanthophysium diffissum (Sacc.) Parm.

Aleurodiscus diffissus (Sacc.) Burt

Basidiocarpo no estipitado; efuso-reflejado; 0.1-4 cm de largo; 0.1-0.4 cm de ancho; 0.05-0.1 cm de alto o grosor; anual a bianual; quebradiza a cerosa. Adhesión al substrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica positiva.

Margen 0.3-1 mm de grosor; decurvado a incurvado; ondulado; Beige rosáceo. Rizomorfos ausentes.

Contexto simple; Blanquecino; 0.2-0.5 mm de grosor; quebradiza a cerosa.

Himeno liso a ondulado; seca; Beige.

CARACTERISTICAS MICROSCOPICAS. Setas ausentes. Sistema hifal monomítico. Arreglo hifal paralelo a entrelazado. Hifas generativas hialinas; 4-4.8 micras de diámetro; grosor de la pared delgadas. Fíbulas ausentes. Cistidios ausentes. Basidiosporas hialinas o amarillentas; oblongas a ovoides; 4.4-4.8 micras de largo; 4 micras de ancho. Promedio $Q = 1.15$. Reacción al KOH negativa; Melzer negativas; ornamentación lisas; grosor de la pared delgadas; terminación en la punta redondeadas. Basidios globosos a clavados; 40-48 micras de largo; 10.4-13.6 micras de ancho o diámetro; ausentes. Esterigmas 4; 0.8-1.2 micras de largo; 0.6-0.8 micras de ancho. OTRAS. Estructuras himeniales Dendrofitas abundantes, muy vistosas, de 7.2-9.6 Micras de diámetro y 32-48 Micras de largo.

Acanthophysium mirabile (Berk. & M.A. Curt.) Parm.

Aleurodiscus mirabilis (Berk. & M.A. Curt.) Hoehn. & Litsch,
Aleurodiscus apiculatus Burt, *Aleurodiscus spinulosus* Henn.

Basidiocarpo no estipitado; efuso-reflejado; 0.1-2 cm de largo; 0.1-0.4 cm de ancho; 0.05-0.1 cm de alto o grosor; anual a bianual; papiracea, o quebradiza. Adhesión al substrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica negativa.

Pileo plano-convexo; Beige-Blanquecino; azonado y mate; villosos; Se aprecia únicamente en las orillas. Margen 0.2 mm de grosor; incurvado; entero; Blanquecino. Rizomorfos ausentes.

Contexto simple; Blanquecino; 0.2-0.4 mm de grosor; quebradiza a cerosa.

Himenio liso a ondulado; seca; Rosáceo Naranja Opaco.

CARACTERISTICAS MICROSCOPICAS. Setas ausentes. Sistema hifal dimítico. Arreglo hifal entrelazado. Hifas generativas hialinas; 3.2-4.8 micras de diámetro; grosor de la pared delgadas. Hifas conectivas hialinas; 1.6-2.4 (-4) micras de diámetro; delgadas. Fíbulas simples; en hifas generativas. Cistidios ausentes. Basidiosporas coloreadas; lacrimoides, o reniformes; 22.4-28 micras de largo; 12.8-15.2 micras de ancho. Promedio $Q = 1.8$. Reacción al KOH negativa; Melzer negativas; ornamentación equinadas; grosor de la pared delgadas; terminación en la punta redondeadas. Basidios clavados, o cilíndricos; 120-160 micras de largo; 11-22.4 micras de ancho o diámetro; ausentes. Esterigmas 4; 8-12.8 micras de largo; 4-5.6 micras de ancho. OTRAS. Estructuras himeniales Dendrofitas abundantes, de 4.0-6.4 Micras de diámetro interior y de 7.2-12.0 Micras de diámetro total.

Aleurodiscus amorphus (Pers. :Fr.) J.Schröt. In Cohn

Basidiocarpo no estipitado; efuso-reflejado; 0.1-1.3 cm de largo; 0.1-0.5 cm de ancho; 0.05-0.15 cm de alto o grosor; anual a bianual; quebradiza a cerosa. Adhesión al substrato separable.

ANEXO 9. Descripciones generadas por el programa CONFOR en formato HTML.

Aphylophorales no Poroides de México

Acanthophysium bertii (Lloyd) Biodin

Aleurodiscus bertii Lloyd, *Aleurodiscus cremeus* Burt

Basidiocarpo no estipitado; efuso-reflejado; 0.1–0.4 cm de largo; 0.1–0.3 cm de ancho; 0.05–0.1 cm de alto o grosor; anual a bianual; quebradiza a cerosa. Adhesión al sustrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica negativa.

Margen 0.5 mm de grosor; decurvado; desgarrado a apendiculado; Beige. *Rizomorfos* ausentes.

Contexto simple; Beige; 0.5 mm de grosor; cerosa.

Himenio liso a ondulado; seca; Beige, Ligeramente rosáceo.

CARACTERÍSTICAS MICROSCÓPICAS. *Setas* ausentes. *Sistema hifal* monomitico. Arreglo hifal entrelazado. Hifas generativas hialinas; 2.4–3.2 micras de diámetro; grosor de la pared delgadas. Fíbulas simples; en hifas generativas. *Cistidios* ausentes. *Basidiosporas* hialinas o amarillentas; globosas; 4–4.8 micras de largo; 4–4.8 micras de ancho. Promedio Q = 1. Reacción al KOH negativa. Reacción al Melzer amiloides. Ornamentación equinadas. Grosor de la pared delgadas. Terminación en la punta redondeadas, o truncadas. *Basidios* clavados; 20–24 micras de largo; 8–12 micras de ancho o diámetro; ausentes. Esterigmas 4; 3.6–4 micras de largo; 0.8 micras de ancho. **OTRAS.** *Estructuras himeniales* Dendrofitas abundantes, proyecciones con diferente longitud, de 20–28 Micras de largo y de 6.4–8.0 Micras de diámetro total. Cristales Abundantes en la trama del Himenio. **IMAGENES.** • [aca-bert.jpg](#). *Escala=1cm*.

Acanthophysium diffissum (Sacc.) Parm.

Aleurodiscus diffissus (Sacc.) Burt

Basidiocarp no estipitado; efuso-reflejado; 0.1–4 cm de largo; 0.1–0.4 cm de ancho; 0.05–0.1 cm de alto o grosor; anual a bianual; quebradiza a cerosa. Adhesión al substrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica positiva.

Margen 0.3–1 mm de grosor; decurvado a incurvado; ondulado; Beige rosáceo. *Rizomorfos* ausentes.

Contexto simple; Blanquecino; 0.2–0.5 mm de grosor; quebradiza a cerosa.

Himenio liso a ondulado; seca; Beige.

CARACTERISTICAS MICROSCOPICAS. *Setas* ausentes. *Sistema hifal* monomitico. Arreglo hifal paralelo a entrelazado. Hifas generativas hialinas; 4–4.8 micras de diámetro; grosor de la pared delgadas. Fíbulas ausentes. *Cistidios* ausentes. *Basidiosporas* hialinas o amarillentas; oblongas a ovoides; 4.4–4.8 micras de largo; 4 micras de ancho. Promedio Q = 1.15. Reacción al KOH negativa. Reacción al Melzer negativas. Ornamentación lisas. Grosor de la pared delgadas. Terminación en la punta redondeadas. *Basidios* globosos a clavados; 40–48 micras de largo; 10.4–13.6 micras de ancho o diámetro; ausentes. Esterigmas 4; 0.8–1.2 micras de largo; 0.6–0.8 micras de ancho. **OTRAS.** *Estructuras himeniales* Dendrofisis abundantes, muy vistosas, de 7.2–9.6 Micras de diámetro y 32–48 Micras de largo.

IMAGENES. • [aca-dif.jpg](#). *Escala=1cm*.

Acanthophysium mirabile (Berk. & M.A. Curt.) Parm.

Aleurodiscus mirabilis (Berk. & M.A. Curt.) Hoehn. & Litsch, *Aleurodiscus apiculatus* Burt, *Aleurodiscus spinulosus* Henn.

Basidiocarp no estipitado; efuso-reflejado; 0.1–2 cm de largo; 0.1–0.4 cm de ancho; 0.05–0.1 cm de alto o grosor; anual a bianual; papiracea, o quebradiza. Adhesión al substrato separable a no separable.

Habitat lignícola. Hospedero gimnospermas. Pudrición blanca. Hábito de crecimiento gregario. Afinidad geográfica tropical. Reacción xantocroica negativa.

Pileo plano-convexo; Beige-Blanquecino; azonado y mate; villosos; Se aprecia únicamente en las orillas. Margen 0.2 mm de grosor; incurvado; entero; Blanquecino. *Rizomorfos* ausentes.

Contexto simple; Blanquecino; 0.2–0.4 mm de grosor; quebradiza a cerosa.

Himenio liso a ondulado; seca; Rosáceo Naranja Opaco.

ANEXO 10 Matriz de distancia generada por el programa DIST

A. Taxa considerados en las Matriz de Distancia

<i>Acanthophysium bertii</i>	<i>Hymenochaete sallei</i>
<i>Acanthophysium diffissum</i>	<i>Hymenochaete tabacina</i>
<i>Acanthophysium mirabile</i>	<i>Hyphoderma puberum</i>
<i>Aleurodiscus amorphus</i>	<i>Hyphoderma sambuci</i>
<i>Asterostroma cervicolor</i>	<i>Laxitextum bicolor</i>
<i>Asterostroma muscicola</i>	<i>Lopharia cinerascens</i>
<i>Auriscalpium villipes</i>	<i>Merismodes ochraceus</i>
<i>Auriscalpium vulgare</i>	<i>Meruliopsis corium</i>
<i>Bankera violascens</i>	<i>Merulius lacrymans</i>
<i>Cantharellus cinnabarinus</i>	<i>Peniophora aurantiaca</i>
<i>Cantharellus concinnus</i>	<i>Peniophora cinerea</i>
<i>Cantharellus minor</i>	<i>Peniophora rufa</i>
<i>Cantharellus odoratus</i>	<i>Phanerochaete affinis</i>
<i>Caripia montagnei</i>	<i>Phanerochaete crassa</i>
<i>Ceraceomyces sulphurinus</i>	<i>Phanerochaete filamentosa</i>
<i>Chondrostereum purpureum</i>	<i>Phanerochaete ravenelii</i>
<i>Clavariadelphus fasciculatus</i>	<i>Phanerochaete sordida</i>
<i>Clavariadelphus occidentalis</i>	<i>Phanerochaete tuberculata</i>
<i>Clavariadelphus pistillaris</i>	<i>Phanerochaete velutina</i>
<i>Clavariadelphus unicolor</i>	<i>Phellodon amicus</i>
<i>Clavulina cinerea</i>	<i>Phellodon niger</i>
<i>Clavulina cristata</i>	<i>Phlebiella sulphurea</i>
<i>Clavulina rugosa</i>	<i>Podoscypha aculeata</i>
<i>Clavulinopsis corniculata</i>	<i>Podoscypha nitidula</i>
<i>Climacodon septentrionalis</i>	<i>Pseudocraterellus sinuosus</i>
<i>Coniophora olivacea</i>	<i>Pulcherricium caeruleum</i>
<i>Cerocorticium molle</i>	<i>Ramaria araiospora</i> var. <i>rubella</i>
<i>Cotylidia cyphelloides</i>	<i>Ramaria botrytis</i>
<i>Cotylidia diaphana</i>	<i>Ramaria candida</i>
<i>Cotylidia undulata</i>	<i>Ramaria concolor</i>
<i>Craterellus cornucopioides</i> var. <i>parvisporus</i>	<i>Ramaria flava</i>
<i>Cymatoderma caperatum</i>	<i>Ramaria stricta</i>
<i>Cymatoderma dendriticum</i>	<i>Ramaria subbotrytis</i> var. <i>intermedia</i>
<i>Dendrophora albobadia</i>	<i>Sarcodon imbricatus</i>
<i>Dendrothele griseo-cana</i>	<i>Sparassis crispa</i>
<i>Dendrothele mexicana</i>	<i>Stecchericium seriatum</i>
<i>Dendrothele pachysterigmata</i>	<i>Steccherinum laeticolor</i>
<i>Dendrothele seriata</i>	<i>Stereum australe</i>
<i>Gomphus bonarii</i> f. <i>bonarii</i>	<i>Stereum gausapatum</i>
<i>Gomphus brunneus</i>	<i>Stereum hirsutum</i>
<i>Gomphus clavatus</i>	<i>Stereum ostrea</i>
<i>Gomphus floccosus</i>	<i>Stereum sanguinolentum</i>
<i>Gomphus subclaviformis</i>	<i>Thelephora caryophyllea</i>
<i>Grandinia arguta</i>	<i>Thelephora cervicornis</i>
<i>Hericium coralloides</i>	<i>Thelephora griseozonata</i>
<i>Hericium erinaceus</i>	<i>Thelephora regularis</i> var. <i>regularis</i>
<i>Hydnellum auratile</i>	<i>Thelephora terrestris</i>
<i>Hydnellum scrobiculatum</i>	<i>Thelephora vialis</i>
<i>Hydnellum suaveolens</i>	<i>Trechispora farinacea</i>
<i>Hydnochaete olivacea</i>	<i>Tubulicium vermifera</i>
<i>Hydnochaete tabacina</i>	<i>Tubulicrinis glebulosus</i>
<i>Hydnum repandum</i>	<i>Veluticeps berkeleyi</i>
<i>Hymenochaete cinnamomea</i>	<i>Xylobolus frustulatus</i>
<i>Hymenochaete pinnatifida</i>	<i>Xylobolus subpileatus</i>
<i>Hymenochaete rubiginosa</i>	

ANEXO 10. Matriz de Distancia Generada por el programa DIST.

B. Distancias entre los taxa.

.17073	.22986	.22808	.19515	.24045	.27515	.30145	.34657	.32804	.28429
.34101	.31130	.23812	.20565	.30730	.35579	.31522	.29187	.36558	.30068
.28967	.27625	.37680	.32116	.23070	.28448	.25396	.27745	.32798	.34018
.27751	.31183	.26435	.16580	.26915	.19240	.17777	.37425	.29440	.33381
.34912	.31304	.24169	.28705	.35757	.29676	.35794	.32560	.35031	.36913
.33678	.26479	.38891	.40992	.36948	.35616	.19682	.25478	.26389	.28602
.20340	.27678	.33986	.34656	.24713	.28070	.30230	.28755	.26549	.26232
.30587	.23807	.35679	.28162	.34755	.21566	.29669	.29030	.28962	.27272
.26614	.30123	.30093	.29784	.29248	.33609	.29131	.36105	.30294	.36260
.27779	.36261	.34477	.34230	.35918	.40219	.32362	.27000	.31817	.31369
.30103	.31000	.20698	.28109	.22857	.32123	.30710	.35301		
.25497	.21146	.23570	.28758	.33181	.34855	.39201	.28652	.30324	.32947
.30903	.23560	.21942	.28773	.33814	.29455	.35404	.40794	.29837	.28158
.28650	.31551	.27088	.21980	.26237	.26165	.29202	.26870	.23090	.29254
.30693	.26473	.18012	.27967	.22572	.14978	.35790	.32879	.39277	.36778
.32013	.26285	.37205	.40593	.32207	.30950	.37124	.36307	.31836	.30816
.29010	.32169	.35258	.32405	.31885	.15048	.25246	.19386	.25931	.23128
.28879	.33731	.32913	.24805	.27243	.20495	.27561	.26845	.27295	.26048
.20597	.32754	.31732	.28718	.25527	.28208	.29430	.29356	.25343	.29801
.36421	.34418	.33022	.34591	.36085	.35874	.36350	.29120	.36272	.31063
.28849	.25737	.25422	.28426	.33710	.23830	.36632	.34709	.33502	.33537
.30100	.25372	.25010	.26059	.31621	.29679	.29822			
.21384	.33456	.32350	.35808	.33747	.43425	.42356	.35415	.34159	.37041
.34454	.25199	.33763	.38615	.38116	.34145	.37332	.36889	.32049	.34741
.40694	.34390	.30558	.27751	.29678	.34502	.40550	.40734	.34985	.42290
.26648	.22110	.21682	.25876	.26244	.44321	.37996	.39543	.40004	.37208
.31897	.41135	.46141	.38299	.42814	.45009	.39258	.42861	.37866	.35206
.47527	.43870	.46962	.41118	.27690	.30468	.28160	.28833	.27565	.34638
.36715	.32727	.29316	.31859	.34839	.31577	.34336	.31075	.36440	.28356
.37510	.38209	.47138	.33590	.38656	.39893	.32713	.32477	.31797	.32372
.36219	.36316	.33677	.37423	.31318	.45986	.38356	.40593	.36798	.39793
.39033	.37824	.36274	.34819	.36463	.37483	.39031	.35972	.36486	.36615
.29167	.31966	.30439	.38958	.29104	.39253				
.32083	.30809	.35880	.40091	.47713	.37902	.37738	.43669	.39287	.33319
.33422	.40129	.46692	.44042	.38067	.39438	.42216	.41699	.38712	.43672
.38050	.31578	.35899	.33434	.43212	.41590	.33072	.38178	.38737	.31064
.31512	.33123	.28571	.31233	.47585	.45154	.46271	.42487	.45611	.39873
.43706	.41883	.41560	.40961	.48881	.47898	.42451	.36926	.41335	.44297
.43313	.44533	.45016	.28248	.33327	.31852	.34602	.32269	.39527	.40968
.37910	.35169	.34686	.28552	.38770	.38461	.33073	.36772	.32929	.43036
.40579	.40989	.37000	.43118	.44094	.37928	.30657	.41559	.40280	.43099
.41799	.35525	.43669	.39239	.45604	.42557	.41421	.39836	.34934	.38480
.38114	.34337	.36270	.35328	.41529	.42274	.43393	.39971	.36869	.38311
.37176	.41209	.34312	.35361	.37232					
.20015	.26760	.34524	.35289	.30867	.30613	.37300	.34092	.29456	.19568

.29217	.35465	.34357	.33338	.45194	.34579	.34258	.31804	.33153	.29491
.23442	.27759	.26496	.28124	.29123	.31981	.29886	.29993	.27802	.15471
.23057	.17412	.17351	.38519	.32312	.37918	.36725	.36542	.16725	.36077
.37007	.29886	.30412	.33843	.27798	.33148	.35463	.26268	.32295	.33467
.36207	.32041	.14142	.24640	.24455	.24301	.26733	.31835	.33886	.32325
.21105	.34619	.22361	.26483	.28395	.24332	.20465	.24083	.31504	.32816
.32230	.24070	.31340	.30013	.34519	.25017	.31635	.33741	.32903	.33435
.37215	.38307	.31933	.41896	.36504	.37477	.25309	.29514	.30163	.30617
.30597	.39582	.33548	.33910	.37466	.36172	.34788	.34779	.20726	.20099
.19676	.32819	.30490	.31771						
.26513	.30184	.29025	.34464	.33012	.35944	.28514	.30288	.25044	.26190
.30423	.32068	.28240	.38624	.32576	.27788	.27026	.36795	.27600	.29712
.24873	.25139	.30488	.31017	.31576	.28846	.26842	.26725	.18016	.29363
.18097	.21781	.31625	.33608	.36954	.30699	.37357	.25432	.34780	.31541
.31996	.30886	.32343	.31450	.37814	.33680	.29222	.30621	.30932	.33643
.29206	.19221	.21207	.20493	.22594	.19625	.27378	.27857	.24818	.20055
.28143	.23245	.25704	.35918	.18720	.27055	.25318	.27784	.26856	.34720
.28056	.31088	.33897	.35528	.24461	.29487	.36736	.31989	.27088	.29090
.34231	.36259	.33629	.35137	.32997	.25822	.25558	.26059	.27687	.25364
.27186	.33210	.35014	.33202	.31048	.35496	.32002	.21302	.21500	.26357
.27086	.28544	.29901							
.17713	.33140	.32060	.25232	.30135	.26023	.24432	.23323	.26152	.27093
.25883	.22332	.31610	.28702	.27648	.23219	.34132	.21446	.28240	.30023
.22595	.28317	.27892	.33075	.19708	.27217	.23585	.22429	.31762	.27821
.24386	.33569	.34306	.36277	.28509	.35952	.28298	.24936	.29694	.21750
.30370	.30735	.28019	.33244	.29188	.29960	.35566	.32395	.33334	.31233
.31982	.29074	.25827	.24933	.17864	.28571	.26854	.32511	.26876	.26217
.32377	.25977	.32420	.22238	.32522	.22331	.34096	.23412	.29214	.33058
.28355	.33714	.29009	.23186	.26407	.28727	.29149	.25058	.28698	.27980
.27046	.30205	.31599	.30331	.24861	.30440	.29554	.25740	.31787	.33778
.30931	.31195	.32484	.33635	.34322	.29669	.26124	.30343	.29749	.32988
.31346	.31254								
.31622	.34802	.30291	.30077	.29191	.31996	.30155	.30374	.30999	.30443
.24881	.36455	.33412	.29049	.30228	.32879	.29222	.36124	.34561	.27033
.30689	.29657	.37118	.27681	.31471	.29878	.30944	.40926	.36350	.34403
.34920	.31682	.33855	.32049	.34298	.34071	.30876	.33440	.27379	.29605
.33081	.34520	.39499	.26366	.33371	.34993	.36025	.40097	.34609	.36469
.34677	.27495	.32983	.27867	.31649	.36132	.39169	.32260	.32650	.35879
.33751	.39276	.29688	.38781	.29932	.37295	.19100	.30033	.33155	.29743
.33833	.30696	.31318	.30547	.35475	.30330	.25793	.34357	.27985	.30883
.31719	.36184	.34787	.31263	.34347	.32931	.32700	.33002	.32148	.32312
.30734	.35433	.30768	.36625	.40380	.26280	.33222	.34234	.34426	.39347
.39391									
.29391	.26986	.23692	.21172	.33450	.34205	.36017	.27138	.24330	.22776
.34851	.32398	.34248	.26313	.26806	.30019	.40671	.38589	.30539	.29956
.34579	.31098	.37508	.32924	.31887	.27300	.39090	.31432	.32560	.24238
.18074	.20727	.28094	.20570	.36327	.34040	.31063	.26521	.24159	.21864

.38569	.47411	.18426	.33755	.41550	.39094	.39455	.39284	.34988	.36127
.34403	.34365	.25579	.33782	.32665	.43739	.31387	.36912	.40471	.39177
.40921	.32997	.39843	.35399	.36476	.19092	.25002	.33688	.32001	.34095
.25774	.38578	.19377	.21630	.18021	.21252	.25620	.30743	.26246	.20338
.36109	.37804	.30931	.42629	.39472	.39739	.34255	.42196	.36798	.36525
.35529	.33552	.35122	.35147	.26717	.36062	.33769	.37376	.38589	.41296
.11769	.19952	.20600	.26629	.30247	.39240	.29235	.26038	.30778	.35864
.27813	.31047	.18588	.25520	.31808	.36678	.34918	.30472	.28630	.28846
.25732	.34977	.36088	.29649	.26642	.39027	.34020	.28225	.29727	.23298
.29419	.32304	.26152	.35480	.35875	.34552	.28434	.28419	.27752	.42767
.40820	.25991	.38004	.42936	.40846	.37697	.44307	.27804	.32805	.32004
.31800	.27557	.38324	.38296	.41450	.32253	.31903	.34116	.38606	.40006
.34739	.34588	.25440	.40803	.32558	.27289	.38460	.29566	.30588	.17805
.33456	.24471	.29374	.26828	.29525	.24870	.37385	.28208	.33437	.34214
.41938	.37376	.32241	.35695	.31383	.34435	.41447	.25804	.40965	.37325
.34176	.35338	.37213	.35108	.32326	.35433	.38052	.38501	.38592	
.12921	.13474	.22707	.23030	.32858	.27091	.24235	.22462	.30740	.25173
.25777	.17625	.25349	.29948	.27482	.29223	.23211	.19561	.26858	.29178
.28891	.32771	.24157	.21482	.30887	.31723	.24800	.24813	.18963	.28255
.21938	.20783	.27066	.31188	.33267	.20003	.32877	.23807	.34137	.39569
.20049	.29313	.39518	.33790	.34883	.36533	.29433	.27055	.27714	.28400
.21787	.34488	.30407	.37927	.26922	.27862	.33639	.32265	.32495	.27441
.34640	.20696	.35708	.29291	.26509	.33285	.21647	.22852	.13182	.27125
.19774	.21013	.22252	.27772	.21672	.32323	.18864	.32799	.28466	.39237
.31494	.34876	.38522	.32954	.34461	.37886	.23853	.33236	.33206	.28969
.25482	.28859	.31509	.29968	.28708	.36450	.30480	.38067		
.15330	.24016	.29610	.32096	.28376	.24366	.26087	.26130	.25518	.24939
.21293	.25493	.30471	.32539	.32824	.25446	.23010	.28311	.29780	.36057
.34865	.28028	.24731	.33417	.33048	.29025	.29202	.22106	.25815	.28062
.19522	.34368	.34149	.38560	.22641	.36080	.29118	.36345	.44160	.23127
.29150	.40241	.37811	.36755	.35005	.31055	.33089	.32133	.32498	.21554
.31336	.32260	.42938	.30346	.29544	.37731	.34398	.37153	.29727	.38909
.27289	.36106	.30030	.27410	.35728	.28099	.26384	.15037	.33936	.23358
.25328	.24792	.28126	.24326	.32477	.25387	.30620	.35101	.34816	.34411
.39730	.39099	.36183	.34889	.37526	.26128	.35818	.34519	.23412	.27983
.32376	.33525	.33536	.32544	.38301	.36526	.42374			
.25761	.27529	.29306	.25795	.22458	.21889	.31693	.27374	.28292	.19373
.24305	.26598	.30104	.29200	.23747	.22264	.26660	.27873	.28003	.29391
.27259	.22229	.31187	.31490	.26338	.21760	.22113	.22100	.20563	.18887
.30414	.31916	.31201	.21957	.32595	.23551	.35568	.41119	.20359	.30045
.38456	.34049	.37141	.33552	.27810	.30047	.25851	.29013	.23286	.33063
.28065	.38686	.27898	.31312	.35433	.32481	.33324	.24904	.37161	.24322
.35260	.30217	.25398	.33977	.21964	.25307	.17053	.29385	.17469	.20549
.23509	.26333	.26910	.34067	.22753	.26763	.27318	.38163	.34847	.31956
.37105	.33944	.33313	.37474	.26736	.33780	.35104	.28026	.29158	.31819
.30546	.27844	.29361	.35019	.30724	.36529				
.21097	.27075	.35562	.30930	.28166	.27360	.27378	.23744	.28036	.30203

.25056	.22934	.28558	.22479	.22831	.27799	.21910	.25859	.28781	.24582
.17847	.28594	.23616	.17961	.35950	.26205	.30728	.34810	.30433	.28824
.32101	.36078	.25569	.31870	.31296	.29637	.32199	.28237	.25495	.34895
.32833	.31213	.31143	.21865	.26154	.24296	.27125	.14138	.28394	.29966
.33463	.26809	.20992	.26951	.27788	.27777	.21844	.27000	.18271	.34533
.24658	.31100	.27713	.26261	.23976	.18765	.22966	.31417	.30717	.34840
.30440	.27093	.33081	.29445	.38343	.34154	.30162	.25362	.29535	.29013
.27635	.26710	.37129	.22349	.32275	.34969	.28547	.29598	.29496	.31326
.24322	.27463	.33824	.25166	.32224					
.21184	.27118	.25627	.26906	.33645	.30150	.24766	.25252	.29518	.21771
.14665	.22657	.15201	.16090	.22946	.29626	.18942	.25041	.14184	.09225
.18512	.18675	.11922	.30813	.27807	.36627	.30519	.33335	.14764	.31572
.35021	.25101	.30108	.27641	.23535	.28683	.28504	.20244	.29802	.27775
.25560	.23703	.17871	.15076	.15143	.19538	.15979	.24104	.28613	.26748
.13901	.20051	.16392	.17933	.15948	.15995	.19387	.18772	.22180	.27675
.35341	.18362	.21272	.22966	.25411	.18356	.26093	.26251	.27340	.26060
.30520	.30456	.23791	.33673	.25713	.29931	.20057	.25974	.24770	.22066
.21080	.25816	.25538	.29119	.29645	.30415	.25607	.25082	.17965	.17086
.16070	.26156	.20342	.26121						
.25904	.24652	.27207	.35155	.27133	.18886	.27418	.27016	.18965	.25227
.21012	.19905	.25865	.20796	.35099	.19899	.23260	.18914	.15607	.27749
.24882	.18106	.33576	.32808	.37558	.31033	.34760	.20889	.30616	.31661
.29606	.30809	.35303	.21693	.22972	.32487	.26274	.26659	.23825	.28907
.22425	.23887	.20194	.20467	.18154	.18564	.19955	.27001	.20961	.21044
.18922	.23431	.17495	.26148	.20995	.20674	.16745	.19611	.24867	.34568
.28594	.24229	.25750	.26553	.22762	.26312	.28275	.26412	.28340	.31603
.24714	.27227	.32840	.32217	.20529	.16582	.18891	.17344	.19069	.18696
.23976	.26585	.33744	.24570	.32344	.31063	.29347	.25239	.23999	.22162
.30245	.23253	.20603							
.13092	.17041	.28758	.28582	.26477	.17239	.29182	.27543	.36914	.28704
.22167	.26110	.24453	.34771	.29377	.26515	.27243	.22802	.34744	.31593
.30133	.19393	.24810	.27883	.23004	.25138	.31599	.35949	.31164	.27681
.25194	.24541	.34137	.36252	.29939	.29392	.33174	.32544	.29141	.34806
.31904	.34110	.23175	.29767	.26235	.28734	.27861	.31834	.29559	.26889
.34637	.32868	.36474	.28831	.37439	.27346	.31364	.26129	.31944	.36080
.23252	.33398	.29257	.31289	.22132	.25850	.20567	.24250	.28744	.28985
.20023	.28012	.34068	.33137	.28755	.34871	.27432	.26747	.30316	.33194
.29581	.29415	.30918	.33504	.35506	.33417	.27934	.33068	.28315	.28730
.34569	.35493								
.16922	.23143	.26218	.25161	.16425	.20917	.22660	.33446	.30147	.19804
.25173	.24348	.29703	.28562	.26884	.24850	.23718	.30557	.31239	.26628
.16261	.21541	.20038	.23762	.22525	.33154	.30482	.26545	.22537	.23109
.17369	.35976	.35811	.27163	.28939	.34695	.34209	.31014	.36964	.29657
.34595	.24909	.29203	.22489	.27291	.21208	.37014	.30981	.27317	.33106
.29688	.36170	.30664	.36255	.27763	.35875	.24470	.26709	.35108	.21661
.30003	.24896	.32195	.21690	.24411	.20478	.21390	.29999	.24831	.22050
.26383	.30899	.34321	.31344	.35342	.30211	.25114	.28661	.36100	.28295

.30134	.22733	.31280	.29682	.28945	.27919	.34632	.28950	.29336	.26425
.36541									
.24695	.30906	.31865	.20424	.28538	.26065	.32103	.31136	.19153	.24121
.24382	.30013	.27765	.25776	.23871	.25756	.33653	.29744	.30212	.19554
.19992	.26117	.21581	.25788	.30808	.33186	.26552	.22237	.27359	.25436
.36314	.41575	.24381	.27593	.37002	.30313	.34206	.35154	.35485	.29739
.23941	.25945	.18683	.31248	.25245	.33006	.26976	.30039	.31858	.30568
.35523	.24351	.34218	.27044	.32146	.24552	.25556	.32597	.22905	.30070
.24538	.28045	.21065	.19861	.20735	.25181	.21547	.28417	.18059	.27036
.30832	.36076	.28975	.32550	.33160	.31504	.32377	.32253	.32908	.26278
.31036	.29246	.32100	.26706	.26646	.33405	.30534	.33813	.33656	.33552
.32868	.31503	.27432	.32902	.33338	.36800	.36588	.29901	.28430	.36140
.28978	.37539	.30672	.31534	.33475	.34586	.37929	.35233	.33467	.35964
.32338	.32704	.36175	.41257	.36511	.32280	.29813	.42842	.29372	.43361
.40845	.33824	.34439	.47994	.40051	.38666	.43813	.37889	.35030	.35000
.36665	.29752	.32462	.30467	.41658	.35463	.31747	.36424	.39008	.35841
.33784	.39513	.34832	.42141	.35633	.32452	.42238	.31230	.34160	.27595
.36491	.33862	.30972	.34110	.30209	.25895	.35400	.31988	.38940	.41746
.35042	.34715	.38441	.39229	.38337	.35321	.35686	.32564	.34192	.30909
.26548	.29575	.33514	.42988	.43382	.39540	.34940	.33978	.39408	
.21144	.16926	.29155	.26878	.35376	.33239	.27703	.29242	.31033	.33108
.32749	.31552	.26898	.24694	.34861	.30905	.29220	.32242	.28783	.33222
.34351	.29950	.34921	.25032	.31047	.27763	.33624	.31481	.37409	.40247
.32061	.30628	.35758	.38933	.36485	.38687	.29588	.35414	.26567	.31808
.20409	.29408	.28587	.35460	.32497	.29868	.31988	.31426	.32711	.33145
.39519	.28061	.37384	.27113	.33287	.32398	.30210	.31679	.25545	.35522
.23291	.26247	.25144	.23061	.23650	.26685	.23935	.37458	.33396	.35904
.34781	.36779	.35075	.32551	.35667	.40494	.25614	.32170	.33386	.32476
.34593	.34815	.28729	.33689	.31016	.33363	.33347	.40212		
.21231	.23308	.24401	.29093	.23243	.21874	.20094	.21111	.30556	.26484
.25447	.23690	.20968	.29974	.28251	.24143	.31609	.28521	.35956	.32056
.28475	.28125	.30876	.36847	.23485	.31871	.32908	.27604	.34047	.30295
.25077	.33855	.30434	.28297	.31793	.26412	.28443	.23475	.25386	.17399
.23386	.29626	.32596	.25694	.23189	.30232	.26142	.32746	.23679	.30518
.21423	.29997	.27444	.31130	.28734	.21296	.23875	.23432	.29406	.24298
.25911	.24976	.20551	.26734	.25261	.23076	.33446	.36912	.28364	.27075
.30558	.26494	.22897	.23678	.35422	.24050	.26964	.25892	.26259	.29295
.26742	.26833	.27292	.27881	.29112	.29415	.31052			
.29231	.28123	.31729	.27083	.21532	.22190	.24523	.26961	.24458	.28327
.23286	.21962	.30751	.26321	.25180	.24118	.26222	.29976	.26339	.27547
.29033	.29615	.29590	.22435	.30496	.25442	.35151	.39131	.22538	.29432
.36820	.32394	.31954	.36289	.26916	.30631	.24029	.26141	.19033	.28420
.25933	.36611	.26802	.30461	.35499	.29069	.36015	.27717	.36077	.25709
.32928	.26461	.29139	.32638	.21359	.27348	.20696	.33941	.19611	.25380
.21013	.22844	.23133	.32416	.21748	.27060	.29331	.37087	.33691	.35663
.32670	.27148	.32226	.33713	.25279	.29726	.27824	.26930	.27309	.25350
.26203	.27806	.28472	.32458	.30434	.35672				

.22972	.37242	.30573	.21957	.22887	.19409	.29833	.31431	.29325	.29068
.26159	.32101	.35897	.30082	.28996	.21936	.25306	.31580	.24983	.35482
.34639	.34833	.27768	.26420	.28123	.36437	.32604	.30305	.32255	.38914
.34447	.35302	.36258	.28975	.36550	.25256	.32385	.28136	.27745	.28295
.32889	.33786	.29710	.28028	.33988	.31943	.32114	.31586	.25885	.39109
.31186	.28850	.33536	.26165	.29000	.21906	.33798	.16042	.16092	.17675
.24639	.29662	.22758	.16757	.30563	.37647	.31774	.34964	.28014	.30186
.24759	.24453	.38356	.27794	.31419	.27974	.30051	.34740	.35318	.32299
.32588	.30041	.31016	.29942	.33994					
.27466	.24151	.21426	.26977	.24921	.30425	.24339	.23019	.21336	.19524
.30243	.28580	.18690	.31207	.32026	.35220	.29920	.34410	.25215	.28416
.34550	.25290	.25279	.30065	.26458	.24071	.29664	.29530	.33032	.30168
.30604	.29360	.24207	.25861	.20737	.19940	.16648	.21443	.22323	.28125
.26042	.22101	.22750	.26068	.27319	.25272	.25678	.18822	.29220	.22302
.31241	.30202	.28737	.31370	.26714	.24389	.24203	.24830	.27615	.25938
.32877	.30139	.26796	.31287	.32137	.23400	.21844	.21245	.27061	.23422
.22211	.32070	.29100	.32778	.31520	.32194	.38101	.34223	.27389	.23535
.25817	.31404	.27631	.28395						
.24778	.22322	.25608	.28881	.30067	.26381	.29486	.21589	.15419	.20867
.20627	.13463	.39710	.34857	.39049	.35885	.38318	.19245	.36942	.41360
.31217	.38505	.37861	.28359	.35032	.31307	.26977	.31145	.30855	.27772
.28060	.17748	.17546	.21984	.23340	.20692	.28523	.33374	.33076	.14997
.24639	.21395	.23457	.21110	.19400	.21517	.19008	.22689	.32987	.38571
.19276	.27538	.26091	.29193	.21530	.32368	.30571	.34635	.36005	.35623
.37162	.29726	.37269	.33488	.33596	.25292	.31368	.30150	.30281	.28568
.29133	.31970	.32106	.37294	.33477	.31569	.29329	.25487	.18928	.19749
.32850	.25455	.31838							
.23085	.23201	.24616	.29785	.25698	.30213	.23011	.14919	.24699	.22739
.16443	.33341	.31028	.36481	.30657	.33229	.18718	.33086	.37002	.32290
.34153	.36252	.28867	.32246	.33475	.23251	.33462	.28468	.31486	.28008
.18277	.19189	.18501	.19540	.24528	.25631	.21391	.21503	.17649	.22025
.26535	.23079	.29215	.19639	.23926	.16231	.22786	.32136	.38414	.26602
.24190	.27098	.26840	.26971	.25859	.30328	.31391	.31697	.30274	.33363
.31355	.39380	.28638	.29201	.25422	.27115	.28000	.25273	.25463	.29844
.31180	.31897	.27372	.26284	.31522	.32544	.25195	.23097	.25021	.27453
.24752	.28776								
.19694	.20788	.26877	.21242	.21723	.18457	.12367	.24547	.22222	.16950
.29372	.28276	.32176	.28589	.32449	.24070	.32689	.37762	.22033	.24815
.26391	.24939	.29890	.24637	.24239	.27658	.25305	.32072	.27059	.22707
.22984	.18853	.23294	.17376	.23156	.29068	.25019	.20769	.19692	.22785
.21049	.24236	.18616	.23688	.18236	.27640	.25928	.30793	.25297	.22408
.24877	.21925	.18533	.22961	.22878	.24345	.25203	.27655	.31203	.20179
.30597	.28267	.26128	.22350	.27746	.24709	.25015	.23439	.30515	.26897
.29129	.27384	.27937	.29288	.23769	.26220	.21648	.20398	.25821	.23867
.29165									
.19394	.18995	.20121	.24869	.23149	.16928	.26735	.26833	.20088	.29763
.23886	.30908	.29761	.27353	.22743	.34499	.38034	.16979	.30669	.24102

.27312	.34867	.24437	.23862	.34475	.31113	.31975	.28366	.27015	.24973
.23915	.24960	.20108	.26537	.32606	.33178	.22115	.24266	.26614	.26989
.23225	.23761	.24086	.20736	.30730	.28713	.27775	.26962	.12808	.19301
.20274	.24777	.23567	.26461	.27991	.25306	.27199	.30468	.23630	.34520
.31544	.33176	.23671	.32433	.35922	.30399	.27128	.36442	.21585	.24850
.27044	.22021	.24112	.26218	.25942	.26557	.22575	.32633	.28339	.33480
.22772	.24142	.25679	.26716	.20220	.32712	.29141	.20852	.32028	.27564
.34643	.32578	.29695	.26421	.38551	.41820	.21108	.25694	.32089	.29834
.30803	.33550	.28699	.31730	.27807	.29557	.30044	.22105	.25502	.21933
.23975	.25056	.27965	.34760	.32480	.24843	.25680	.24037	.29659	.30162
.25902	.27226	.17232	.29276	.29843	.26571	.27548	.18598	.25029	.29388
.27213	.22453	.29809	.30542	.30590	.30545	.28429	.28999	.34933	.34574
.29632	.28097	.25635	.24749	.20932	.21975	.33897	.21734	.31488	.26068
.25290	.32513	.30380	.27254	.22820	.29897	.31982	.32359	.30588	
.31869	.30908	.30510	.24796	.35842	.30518	.24798	.35224	.27139	.32627
.37393	.32863	.36462	.42961	.39695	.25179	.29888	.31004	.38860	.39797
.26964	.31687	.35294	.33587	.36570	.35126	.25677	.29367	.30027	.30717
.28278	.37766	.37494	.37098	.31013	.34091	.22393	.36294	.33969	.31439
.29074	.25957	.41395	.31221	.23643	.36850	.23722	.25923	.26846	.29257
.31840	.37305	.37887	.31806	.26758	.40066	.35679	.37641	.36953	.36334
.34665	.31343	.33327	.32747	.27092	.34907	.24585	.32760	.33891	.24368
.30971	.28986	.37164	.32431	.33893	.35401	.31930	.33741		
.19402	.23338	.20483	.28655	.27988	.20011	.36116	.36435	.41025	.37121
.36719	.17508	.32357	.29705	.24718	.29433	.34437	.26358	.29869	.32376
.26609	.32620	.30709	.30341	.25020	.28083	.19738	.20904	.21189	.18562
.25490	.29282	.25398	.23911	.25964	.29160	.17040	.26664	.22277	.21643
.17730	.28392	.28550	.34276	.29469	.19052	.26347	.29855	.26950	.28643
.30573	.32337	.29241	.35086	.28120	.30927	.33399	.25241	.25709	.20727
.26167	.24540	.18770	.26272	.28118	.29376	.29825	.28269	.34392	.30920
.26918	.24090	.24951	.25649	.31824	.25220	.23464			
.26808	.21372	.30937	.29945	.22928	.35423	.34140	.39136	.36445	.37074
.25505	.33171	.29678	.26146	.30278	.31552	.25778	.35648	.34343	.30477
.30840	.34213	.32033	.29531	.29020	.22929	.26178	.24816	.21308	.29771
.31776	.32610	.24548	.23947	.24439	.27988	.29785	.23266	.25252	.21681
.31534	.30610	.29834	.28930	.22117	.29389	.33025	.23603	.30358	.32208
.32695	.28762	.33456	.34106	.30051	.32859	.33741	.24977	.24100	.26987
.29593	.32997	.26694	.35546	.32020	.30408	.32840	.33316	.37692	.31767
.27372	.26546	.28608	.28689	.29400	.29496				
.15376	.24016	.22175	.18803	.31309	.28555	.36534	.28214	.33416	.22998
.29572	.32467	.27646	.34005	.33840	.23739	.30733	.25852	.19535	.31027
.27121	.33332	.23202	.23188	.20603	.19550	.15962	.17344	.20989	.23274
.23691	.15453	.20224	.26004	.17524	.20641	.16851	.22281	.17861	.22634
.26504	.33910	.25297	.25863	.25164	.24302	.20441	.27133	.27232	.26275
.25843	.26728	.30441	.25715	.32606	.30177	.27465	.22774	.27392	.26235
.23589	.21839	.31496	.26878	.32009	.26650	.31336	.24519	.28339	.25733
.19858	.20645	.31949	.25732	.25551					
.11657	.09552	.06582	.27563	.20309	.28050	.28256	.24562	.12032	.31587

.33090	.25414	.27261	.25963	.18465	.27778	.25704	.18999	.27753	.25295
.27065	.25204	.11465	.14196	.13567	.15743	.14948	.19379	.21261	.17764
.10676	.19028	.20242	.15649	.17342	.11794	.15994	.10298	.19360	.25262
.31428	.18776	.22961	.19192	.20399	.13708	.21701	.24086	.22802	.24764
.25922	.29987	.21675	.33356	.25466	.23622	.15137	.22971	.20171	.19592
.20688	.26576	.25889	.26250	.28478	.25156	.28517	.26743	.16022	.13457
.13527	.23932	.17406	.23411						
.15832	.16821	.38294	.35052	.34119	.36715	.38085	.18863	.40538	.39489
.34292	.39814	.33902	.30067	.39494	.34953	.30886	.41374	.37251	.37582
.35565	.19766	.22137	.24440	.25635	.23424	.30371	.28023	.30255	.18765
.30743	.27867	.27081	.25389	.21524	.22708	.22734	.28421	.37605	.43779
.26713	.32070	.30131	.31604	.25134	.33775	.32291	.34700	.35465	.37559
.34574	.30079	.42783	.37118	.35430	.25342	.33916	.34562	.33066	.32596
.37399	.34393	.33726	.34645	.33321	.30824	.32297	.24708	.18021	.22033
.31892	.15360	.33609							
.11277	.33504	.29572	.32711	.34937	.33210	.19729	.35745	.35291	.31968
.30086	.31242	.27576	.34991	.30542	.27163	.32727	.31062	.31911	.33430
.12790	.22198	.22023	.19857	.19307	.25174	.28503	.28659	.16380	.25952
.26644	.23219	.25929	.17083	.21259	.17259	.25471	.27399	.32504	.20920
.31567	.26051	.29021	.24109	.30204	.32888	.29309	.29243	.31404	.35832
.31508	.36126	.34018	.35119	.21079	.31760	.26223	.25596	.27902	.34904
.28372	.29844	.29954	.29636	.27629	.27932	.18937	.16831	.23129	.30843
.21303	.28955								
.31158	.26354	.34013	.33593	.30114	.13421	.33405	.36243	.27241	.28391
.29737	.21690	.24297	.29252	.21401	.26971	.24675	.27190	.27529	.10521
.14712	.16187	.14283	.14053	.21297	.23312	.23921	.13346	.21991	.20154
.17389	.21356	.14010	.15125	.08994	.21829	.26485	.31487	.19637	.24534
.21506	.23524	.18381	.25730	.27671	.28382	.29010	.29155	.33921	.27251
.35770	.27423	.26570	.17776	.24515	.20077	.19445	.20094	.29747	.26312
.30270	.32411	.27985	.30173	.25671	.18931	.17085	.17630	.26719	.19696
.19052									
.21706	.23324	.12610	.20304	.35165	.34090	.32145	.27711	.27749	.24554
.38920	.43716	.31675	.37079	.39419	.37941	.37470	.39074	.33433	.35516
.29996	.33046	.31508	.36599	.31942	.42023	.31498	.31531	.38706	.38875
.39752	.32266	.40051	.28211	.38212	.27437	.29673	.37548	.24296	.29001
.31249	.34643	.22500	.26647	.22584	.23437	.29334	.32122	.23939	.31808
.32709	.43705	.35163	.39897	.36509	.31365	.35695	.39988	.28705	.33167
.35950	.32461	.35799	.34320	.28178	.35498	.34017	.33995	.33601	.41132
.14058	.24850	.12828	.33316	.35269	.32486	.25605	.25367	.21894	.37029
.41872	.24794	.29535	.39203	.39949	.37664	.35836	.28651	.32967	.29162
.35849	.30301	.35814	.36153	.39745	.30648	.30992	.35873	.37026	.33901
.32344	.37262	.27024	.37474	.23838	.29160	.30063	.27858	.25564	.19355
.32395	.15657	.20416	.16911	.24287	.21046	.27112	.16805	.31491	.33268
.37612	.34134	.39986	.37215	.35118	.34780	.40629	.31418	.32638	.33351
.27420	.31547	.33856	.28031	.32671	.26744	.35597	.34845	.41757	
.26407	.14924	.41027	.39119	.31637	.31315	.27719	.22775	.43637	.46429
.26559	.38387	.46260	.44038	.44248	.42287	.32514	.41292	.36228	.40542

.22327	.36292	.33215	.30542	.38796	.35892	.35500	.37252	.40176	.29006
.36968	.29139	.31311	.30944	.29817	.37207	.35650	.35898	.31586	.31641
.35848	.39535	.34538	.33935	.28954	.42084	.18343	.26864	.33751	.30053
.34067	.31062	.32961	.29631	.31548	.27621	.29123	.37315	.33112	.26707
.28723	.39473	.34385	.31425	.35695	.30080	.28488	.27524	.37827	.29920
.32961	.29768	.32596	.38582	.34857	.29352	.34447	.34204	.32180	.34076
.34542									
.37136	.39372	.24004	.36022	.39723	.40774	.38801	.40292	.34279	.35825
.31446	.36169	.32843	.35639	.32656	.43558	.34258	.34088	.35783	.38246
.34912	.35308	.38115	.31798	.39548	.23133	.25406	.33142	.26623	.29390
.26107	.34729	.25316	.27787	.25663	.25556	.32524	.30259	.25593	.28575
.35378	.41589	.31218	.43395	.42687	.39569	.37936	.44445	.31837	.32417
.28954	.31135	.27207	.34840	.30773	.35969	.32665	.37464	.32999	.44712
.26741	.35062	.21897	.26063	.23951	.29597	.18595	.26322	.27753	.26724
.24185	.21067	.25654	.29839	.31398	.23237	.26210	.30469	.17614	.28982
.20555	.27433	.19342	.29482	.32302	.38562	.29765	.30846	.29851	.33195
.27241	.35925	.35630	.36449	.33630	.39304	.39185	.34684	.38669	.35972
.30053	.22036	.30757	.30372	.29566	.29128	.39707	.34725	.37954	.36905
.37379	.38780	.32321	.29194	.21752	.16844	.32301	.29373	.24429	
.42035	.32915	.27553	.30739	.32273	.29341	.23896	.34582	.27946	.29968
.30976	.25546	.38588	.31940	.35177	.25707	.29513	.27064	.28932	.33964
.31426	.25010	.36124	.31590	.38356	.37060	.35276	.37127	.36501	.30144
.36207	.37355	.37430	.40053	.44358	.38447	.35054	.42439	.41829	.29257
.29171	.30441	.29081	.25139	.26748	.36497	.31672	.39080	.33253	.37836
.42674	.37671	.36372	.30709	.27866	.30460	.34821	.28909		
.33231	.33988	.28053	.37533	.35783	.34136	.35402	.31163	.31370	.24224
.34658	.31401	.39647	.31734	.33674	.33607	.33813	.30489	.34062	.36790
.31941	.37891	.20603	.27334	.33230	.30101	.29577	.16716	.33653	.26175
.25419	.22972	.25339	.29144	.34487	.24098	.20141	.33996	.40553	.29286
.40292	.43731	.39910	.32889	.34211	.29814	.31229	.34210	.33735	.26279
.31184	.32947	.31985	.33655	.38359	.35680	.41917			
.23476	.24850	.27382	.18201	.21643	.22990	.21589	.21870	.19236	.22140
.29397	.33485	.20037	.25842	.30790	.16411	.24062	.21346	.25188	.19998
.28222	.32369	.33771	.28657	.27082	.25609	.27477	.25362	.30193	.31722
.30168	.30158	.28130	.30860	.31387	.35883	.33103	.27551	.23079	.34526
.31388	.28932	.29050	.39296	.29201	.33206	.30707	.32763	.28556	.32268
.27476	.23405	.20725	.31438	.30312	.29210				
.18031	.22707	.19544	.27778	.31424	.27142	.30593	.28280	.34227	.39164
.36635	.29693	.29570	.30923	.27274	.34698	.28394	.32884	.26075	.31497
.34467	.35060	.34396	.31757	.34189	.38758	.27653	.39564	.43912	.36500
.36114	.43294	.37399	.39171	.35843	.39225	.33921	.29789	.33261	.26875
.30402	.31812	.29819	.35780	.39057	.39736	.39030	.40144	.35567	.33869
.27993	.26810	.23005	.33641	.30530					
.23716	.22867	.28254	.30920	.29943	.23815	.26247	.30356	.33011	.33571
.27544	.31196	.30203	.26948	.31568	.27569	.32892	.23303	.32998	.30485
.36313	.39341	.29017	.35224	.33887	.30874	.34432	.37435	.34272	.34535
.36833	.38450	.34967	.36872	.37682	.37439	.30524	.28340	.28146	.27817

.21885	.26931	.32052	.38450	.32076	.40886	.36770	.27840	.35073	.26214
.31578	.33535	.32458	.27631						
.29373	.26908	.32261	.30468	.30355	.32034	.30834	.41027	.41024	.30321
.27809	.30304	.28640	.31069	.29082	.36097	.25884	.33037	.30318	.34743
.33348	.27484	.32240	.37634	.29308	.34097	.37381	.31448	.28318	.36303
.30390	.35516	.35683	.34025	.36959	.29621	.34320	.30227	.26853	.30786
.28916	.29493	.37420	.31445	.37057	.38502	.30867	.32265	.31331	.32517
.29631	.34823	.35576							
.27085	.24716	.24133	.27081	.24178	.27050	.33575	.29574	.23569	.27654
.27308	.19327	.23967	.20842	.28128	.23638	.25784	.35945	.40561	.30825
.30529	.26770	.35719	.29260	.34689	.38533	.37110	.37275	.37533	.34495
.39098	.36301	.36232	.26075	.24355	.27513	.27509	.26406	.30620	.31217
.35741	.42454	.36863	.35720	.34953	.34400	.28398	.23237	.21620	.31871
.32925	.27901								
.20133	.17472	.20987	.22857	.24805	.29886	.28897	.17477	.25271	.20507
.20121	.27014	.18541	.19687	.16421	.24600	.29675	.31372	.19925	.27864
.23309	.27266	.24430	.27930	.33239	.30808	.31761	.34233	.34738	.32775
.39772	.32166	.31797	.24646	.26449	.23473	.21823	.22848	.31801	.22876
.32490	.33057	.28942	.30750	.32596	.21116	.12003	.18217	.27722	.23556
.27257									
.14352	.18454	.18645	.26905	.26595	.21212	.10677	.27200	.21742	.15909
.25983	.15287	.14675	.13607	.17226	.33764	.38126	.19794	.26191	.22741
.29585	.22958	.31013	.33213	.34508	.33446	.28023	.29257	.31447	.39262
.26813	.22209	.20057	.19010	.16965	.21547	.23770	.22553	.33013	.32846
.34678	.30516	.29499	.32083	.23143	.18292	.18469	.28197	.22884	.24260
.16930	.19791	.21535	.23246	.20052	.12039	.20322	.19059	.19164	.21514
.16688	.19537	.12899	.18481	.27666	.34045	.19084	.23940	.30046	.27324
.16141	.22064	.28543	.27868	.25465	.29798	.24298	.26982	.36867	.27528
.27111	.23169	.23777	.20545	.18292	.24522	.25660	.27049	.30420	.30488
.29109	.31870	.31611	.20071	.16269	.20867	.24903	.24131	.26891	
.17690	.19745	.19586	.19117	.14294	.23218	.22281	.15983	.22773	.16449
.15994	.12846	.21810	.27141	.33341	.27397	.24405	.27739	.29334	.20853
.27843	.32446	.32373	.27021	.28599	.30930	.32016	.35884	.30366	.28312
.19487	.21081	.18638	.20969	.18494	.26881	.28189	.33350	.28840	.32103
.29226	.32125	.20053	.21428	.23974	.30152	.21838	.19092		
.18529	.19418	.25461	.18164	.21647	.24034	.19942	.23889	.18899	.19505
.15514	.23751	.23263	.30289	.25515	.23053	.27282	.19201	.23398	.23572
.24581	.26789	.23064	.21857	.28874	.25899	.24883	.28456	.23126	.19309
.23250	.22929	.23359	.20814	.28266	.27075	.30519	.31211	.28612	.29443
.23515	.22488	.19348	.23398	.25541	.24548	.21094			
.26111	.27832	.23449	.20231	.30135	.18327	.19530	.25028	.25826	.20644
.30067	.24896	.38103	.28736	.28373	.31343	.28524	.26517	.28528	.32369
.30917	.29770	.35409	.30545	.32507	.32493	.37664	.22408	.22924	.28631
.26727	.23532	.22143	.33024	.28504	.32231	.25824	.31242	.35798	.36841
.24835	.28143	.29052	.30515	.27493	.27378				
.27077	.24776	.24804	.34246	.27153	.32183	.27630	.31881	.22413	.29397
.29154	.39586	.34124	.33574	.38947	.27608	.30583	.28297	.29949	.31852

.28564	.32778	.28268	.31397	.35621	.27211	.31769	.27212	.32993	.34684
.31027	.31579	.38160	.35023	.33396	.28814	.37343	.34008	.34660	.28977
.31379	.31370	.38342	.26253	.32164					
.21767	.27011	.22114	.23049	.25927	.23314	.18705	.20619	.21924	.35213
.43613	.28908	.34393	.34370	.35916	.20335	.31854	.33814	.37173	.33994
.30761	.28562	.30958	.46427	.36263	.23580	.17293	.23951	.21660	.24415
.25928	.25320	.38308	.33979	.34170	.38934	.39562	.38273	.28519	.28690
.27741	.29524	.27758	.24962						
.24959	.23024	.17577	.22498	.09324	.15358	.13010	.15375	.31104	.34676
.18384	.26196	.25757	.29278	.19112	.28192	.32362	.30018	.28288	.27808
.31061	.29866	.37618	.28976	.27774	.19414	.27392	.21257	.22371	.23740
.26721	.30276	.32251	.32558	.29567	.29823	.30679	.18780	.14991	.16913
.28244	.23397	.22204							
.26804	.22047	.24852	.24512	.28836	.15952	.31199	.26579	.31452	.28412
.24602	.27822	.25686	.25484	.31019	.31293	.28948	.29722	.30652	.32391
.27020	.35921	.30720	.23618	.23443	.24514	.21767	.19959	.21127	.31995
.22094	.29390	.30324	.33173	.32847	.31766	.29376	.26447	.24811	.27120
.24852	.30628								
.28078	.18070	.22112	.16870	.23010	.28308	.31718	.30747	.23698	.28652
.30500	.35883	.18815	.31537	.33001	.36047	.29482	.29272	.32282	.30881
.38879	.36680	.30613	.22140	.20998	.22536	.26068	.18654	.23589	.29071
.36702	.34998	.36161	.37038	.33599	.22544	.24263	.25066	.24771	.28105
.26515									
.21862	.20836	.16500	.16006	.21280	.31877	.37506	.25904	.27990	.25370
.28521	.21789	.30753	.31921	.31986	.32283	.33877	.28970	.32166	.37529
.30479	.24331	.18740	.26742	.21875	.18767	.25261	.29020	.30951	.35147
.30874	.36279	.29928	.33822	.23531	.18864	.18851	.35322	.22648	.23610
.24881	.22865	.23368	.31747	.35076	.41530	.25565	.29227	.25767	.27888
.24414	.31204	.30369	.34642	.33786	.33891	.34822	.29754	.34371	.37099
.30682	.23742	.30304	.33878	.30426	.28207	.34515	.33250	.32690	.32904
.32965	.32342	.34419	.25989	.26350	.23840	.31784	.28799	.31902	
.19007	.13891	.19108	.29907	.33575	.23658	.25542	.27483	.30738	.13778
.28042	.31279	.31157	.27170	.26746	.31913	.29416	.36046	.29575	.27116
.18466	.26786	.19435	.24888	.23851	.28940	.30647	.35127	.35384	.31038
.33985	.31083	.20427	.18106	.18909	.26634	.22557	.22214		
.18185	.19275	.36505	.36476	.23322	.27787	.24337	.33242	.19824	.35293
.34946	.36377	.33374	.34077	.31942	.33882	.41254	.34227	.24495	.15462
.18745	.19372	.20603	.20352	.28515	.31685	.33600	.37204	.33139	.33620
.35356	.26272	.19728	.19370	.28943	.23656	.18070			
.18789	.28711	.29206	.22351	.19412	.22241	.23990	.16758	.24298	.28395
.29754	.29987	.26344	.28919	.27718	.36937	.26784	.22467	.20307	.18341
.16544	.14211	.19462	.28238	.21385	.27907	.27735	.26336	.32375	.28839
.24103	.14585	.19152	.26776	.18025	.21015				
.33069	.40860	.20853	.32194	.29380	.36054	.25041	.32541	.38250	.33209
.29974	.31923	.28422	.37349	.40884	.33552	.27280	.22493	.28086	.19698
.24092	.28267	.25234	.33909	.35972	.32887	.35725	.29745	.35951	.25725
.19368	.23181	.34476	.30340	.28487					

.25222	.29009	.29515	.28892	.25201	.32778	.28051	.30910	.22030	.18606
.28894	.22715	.27241	.26952	.35115	.34013	.23787	.37076	.28757	.31137
.24322	.33031	.23398	.27853	.28217	.32130	.28596	.33656	.22162	.33935
.30545	.32773	.31811	.36308						
.36690	.24309	.29933	.31545	.33105	.28501	.33139	.28571	.26690	.29754
.33794	.33703	.32736	.37436	.38854	.31352	.38810	.31381	.34473	.32572
.42814	.25646	.36533	.31392	.32548	.31001	.31391	.33061	.37734	.37503
.39430	.37717	.36989							
.28794	.24740	.32679	.28187	.27226	.30624	.31794	.28245	.33539	.29895
.29795	.37856	.35265	.32524	.26857	.34778	.32509	.30093	.32062	.36675
.33275	.25385	.30414	.28308	.31895	.30974	.21683	.17673	.21455	.32484
.31314	.36658								
.21605	.27956	.28521	.22480	.28907	.28492	.28296	.31220	.30653	.27347
.33362	.26663	.32444	.27105	.29485	.31635	.27567	.25361	.33319	.22582
.25387	.23779	.26967	.28862	.23312	.25999	.26025	.30440	.30015	.26541
.32592									
.24362	.29118	.30973	.33397	.31020	.31157	.31873	.32471	.29224	.37839
.36125	.32974	.21176	.29767	.34262	.28471	.31490	.36361	.22118	.32222
.31298	.21383	.20572	.30394	.29616	.24698	.25537	.33919	.30107	.35875
.32010	.20784	.20205	.21727	.28369	.23231	.32780	.19748	.27012	.31040
.33091	.29367	.32970	.36913	.34993	.30850	.37742	.25093	.32026	.32045
.29459	.27690	.31944	.35184	.30604	.28134	.33332	.31421	.35829	
.33285	.32881	.35390	.32067	.32570	.35024	.28303	.39519	.35151	.26526
.20929	.25739	.22844	.25161	.25082	.30070	.31917	.32332	.36936	.33867
.38735	.31104	.28433	.24529	.25043	.24048	.24524	.26244		
.07528	.09732	.17279	.15334	.23401	.09590	.28323	.25985	.33011	.35043
.32108	.31645	.28025	.30357	.33359	.34855	.27874	.32009	.29426	.33253
.31765	.22194	.30804	.26071	.33578	.33679	.36169			
.10056	.22281	.19272	.26997	.06156	.29165	.32193	.35470	.34005	.37005
.40072	.34328	.33674	.38908	.36591	.28391	.36124	.33727	.35717	.32227
.28399	.36572	.25967	.34660	.34412	.36775				
.16511	.17888	.22170	.09443	.23930	.32305	.36436	.31006	.37459	.32413
.30777	.31101	.33595	.31071	.27074	.32957	.32284	.32205	.33053	.25674
.35165	.25614	.32462	.37021	.36085					
.18330	.17884	.19369	.27410	.30064	.35860	.28244	.35191	.28879	.27885
.25911	.33581	.29725	.28892	.30312	.30729	.29311	.30694	.19476	.34569
.28155	.28515	.34823	.31615						
.24111	.18883	.35714	.34744	.31552	.33006	.33044	.30643	.32955	.28030
.31134	.30791	.35946	.36256	.30450	.30885	.32508	.27438	.37090	.30399
.34363	.38420	.31854							
.24878	.33004	.31690	.32098	.30850	.32829	.26550	.23919	.29354	.31982
.28647	.30702	.25885	.33684	.25991	.34764	.26424	.37225	.32035	.37354
.32430	.33750								
.27673	.31293	.33847	.30695	.37023	.37485	.33500	.32458	.35869	.34163
.23284	.35829	.31595	.33077	.31744	.26701	.34404	.24383	.30749	.34420
.38078									
.34116	.36750	.33472	.43364	.41752	.39842	.36844	.38280	.38458	.36495

