

Distribution Maps of Plant Diseases

Compiled by CAB INTERNATIONAL in association with EPPO

Map No. 500

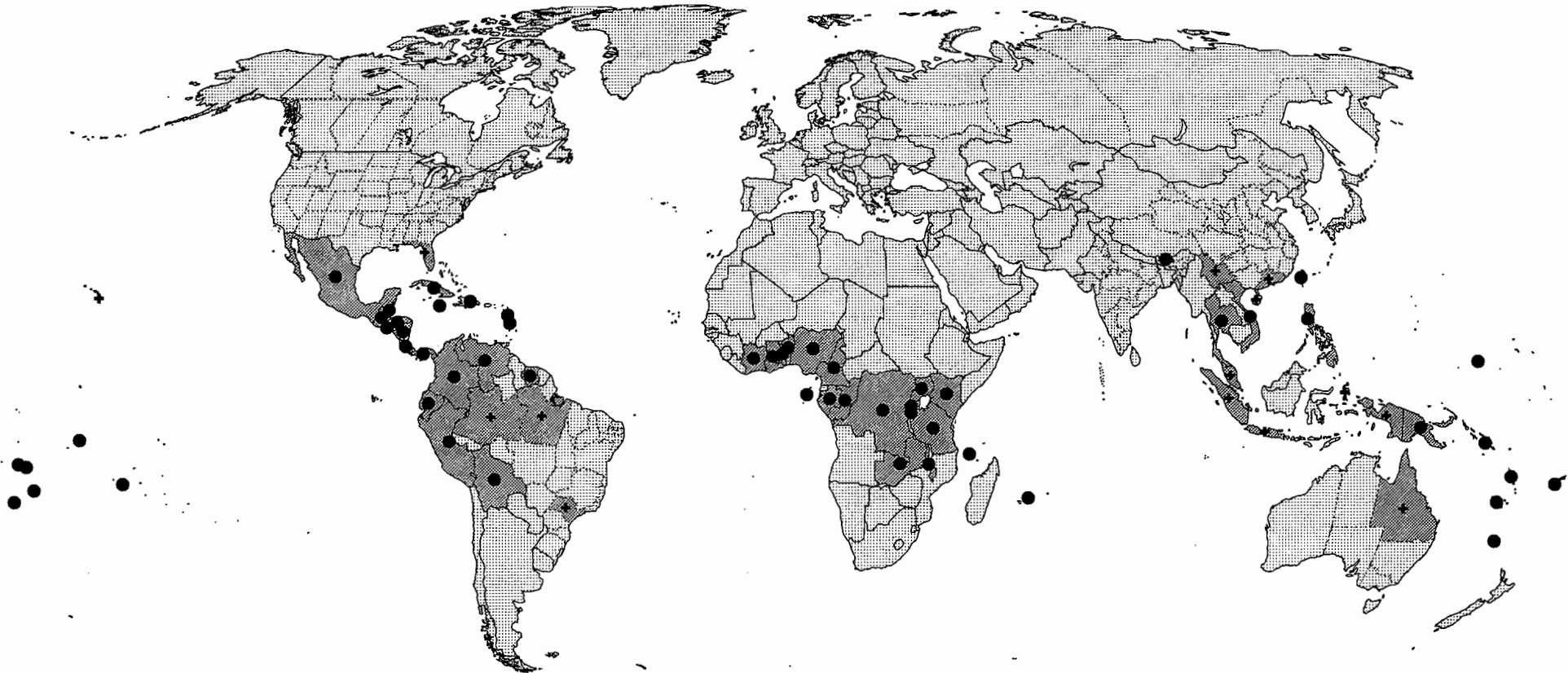
Edition 5

Issued April 2003

Mycosphaerella fijiensis M. Morelet

Fungi: Ascomycota: Mycosphaerellales

Hosts: Banana (*Musa* spp.).



■ Present: national record

● Present: subnational record

CABI/EPPO (2003) *Mycosphaerella fijiensis*. Distribution Maps of Plant Diseases No. 500.
CAB INTERNATIONAL, Wallingford, UK.

Note: Anamorph *Paracercospora fijiensis* (M. Morelet) Deighton. Syn. *Cercospora fijiensis* M. Morelet, *Pseudocercospora fijiensis* (M. Morelet) Deighton. See CMI Description of Pathogenic Fungi and Bacteria No. 413. Records of var. *difformis* J.L. Mulder & R.H. Stover have been included.

Records are based on bibliographic data from the CAB ABSTRACTS database, specimens in the IMI Herbarium retained at CABI Bioscience, UK Centre [Egham] and plant quarantine information compiled by EPPO

X: Present, no details A: Present, widespread B: Present, restricted distribution C: Present, few occurrences (D): Absent, formerly present (E): Eradicated (F): Intercepted only

ASIA							
Bhutan	-	X	Peregrine, W. T. H.; Thinlay (1989) <i>FAO Plant Protection Bulletin</i> 37 (3), 130. Herb. IMI (1984).	Ghana	-	X	Afreh-Nuamah, K.; Ahiekpor, E. K. S.; Ortiz, R.; Ferris, S. (1996) <i>MusAfrica</i> 9, 18-20. Dzomeku, B. M.; Banful, B.; Ankoma, A. A.; Yeboah, D.; Darkey, S. K. (2000) <i>Infomusa</i> 9 (1), 20-22. Herb. IMI.
China	-	X		Kenya	-	X	Kung'u, J. N. (1995) <i>Infomusa</i> 4 (2), 14-16. Kung'u, J. N.; Seif, A. A.; Waller, J. M. (1992) <i>Tropical Pest Management</i> 38 (4), 359-361. [First record. Absent in western Kenya.] Herb. IMI.
	Guangdong	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.				
	Hainan	X	Stover, R. H.; Simmonds, N. W. (1987) <i>Pests. Bananas</i> , 324-345. Longman Scientific & Technical, Harlow, UK.	Malawi	-	X	Ploetz, R. C.; Channer, A. G.; Chizala, C. T.; Banda, D. L. N.; Makina, D. W.; Braunworth, W. S., Jr. (1992) <i>Tropical Pest Management</i> 38 (1), 36-42. [First record.]
	Yunnan	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.	Mauritius	-	X	Soomary, S. D.; Benimadhu, S. P. (1998) <i>Proceedings of the Second Annual Meeting of Agricultural Scientists, Reduit, Mauritius</i> , 12-13 August 1997, 189-193. Food and Agricultural Research Council, Reduit, Mauritius.
Indonesia	-	X		Nigeria	-	X	Awodoyin, R. O. (2001) <i>Journal of Fruit and Ornamental Plant Research</i> 9 (1/4), 41-50. Pasberg-Gauhl, C.; Gauhl, F. (2000) <i>Acta Horticulturae</i> 540, 325-334. Speijer, P. R.; Rotimi, M. O.; Waele, D. de (2001) <i>Nematology</i> 3 (5), 423-436. Herb. IMI.
	Irian Jaya	X	Davis, R. I.; Grice, K. R. E.; Jacobson, S. C.; Gunua, T. G.; Rahamma, S. (2000) <i>Australasian Plant Pathology</i> 29 (3), 225.	Rwanda	-	X	Sebasigari, K. (1990) <i>Sigatoka Leaf Spot Diseases of Bananas. Proceedings of an International Workshop, 28 March-1 April 1989, San Jose, Costa Rica</i> (Ed. by Fullerton, R. A.; Stover, R. H.), 61-65. INIBAP, Montpellier, France.
	Java	X	Reddy, D. B. (Ed.) (1969) <i>Quarterly Newsletter of the Plant Protection Committee for South East Asia and Pacific Region</i> 12, 1-3. FAO, Bangkok, Thailand.	Sao Tome & Principe	-	X	Frossard, P. (1980) <i>Fruits</i> 35 (9), 519-527.
	Maluku	X	Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68.	Tanzania	-	X	Dabek, A. J.; Waller, J. M. (1990) <i>Tropical Pest Management</i> 36 (2), 157-158. [First record. Zanzibar.] Evers, G. (1991) <i>Research & Training Newsletter (Dar es Salaam)</i> 6 (1-4), 19-24. Mbwaga, A. M. (1990) <i>Research & Training Newsletter</i> 5 (2), 3-4. Herb. IMI (1987).
	Sumatra	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.	Togo	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.
Malaysia	-	X	Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68.	Uganda	-	X	Tushemereirwe, W. K.; Karamura, E. B.; Holderness, M.; Gold, C. S.; Deadman, M. (2000) <i>Acta Horticulturae</i> 540, 335-341. Tushemereirwe, W. K.; Waller, J. M. (1993) <i>Plant Pathology</i> 42 (3), 471-472. [First record.] Herb. IMI.
	Peninsular Malaysia	X	Faekins, S. D. (1971) <i>Pest control in bananas. PANS Manual No. 1</i> . In Singh, K. G. (1980) <i>A checklist of host and disease in Malaysia</i> . Bulletin No. 154. Malaysian Ministry of Agriculture, Malaysia.	Zambia	-	X	Hahn, S. K.; Ikotun, T.; Theberge, R. L.; Swennen, R. (1989) <i>Tropical Agriculture Research Series</i> 22, 106-112. Tushemereirwe, W. K.; Waller, J. M. (1993) <i>Plant Pathology</i> 42 (3), 471-472.
Philippines	-	X	Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68. Herb. IMI (1975).				
Taiwan	-	X	Chuang, T. Y.; Jeger, M. J. (1987) <i>Phytopathology</i> 77 (11), 1542-1547. Herb. IMI (1975).				
Thailand	-	X	Reddy, D. B. (Ed.) (1969) <i>Quarterly Newsletter of the Plant Protection Committee for South East Asia and Pacific Region</i> 12, 1-3. FAO, Bangkok, Thailand. Herb. IMI (1969).				
Vietnam	-	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.				
AFRICA							
Benin	-	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.				
Burundi	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.				
Cameroon	-	X	Mouliom-Pefoura, A. (1999) <i>Plant Disease</i> 83 (1), 78. Noupadja, P.; Tchango Tchango, J.; Abadie, C.; Tomekpe, K. (2001) <i>Cahiers Agricultures</i> 10 (1), 19-24. Pefoura, A. M. (1996) <i>Infomusa</i> 5 (1), 8-9. Herb. IMI (1981).				
Comoros	-	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.				
Congo	-	X	Mourichon, X. (1986) <i>Fruits</i> 41, 371-374.				
Congo Democratic Republic	-	X	Mobambo, K. N.; Naku, M. (1993) <i>Tropicicultura</i> 11 (1), 7-10.				
Cote d'Ivoire	-	X	Bi, P. Z. B.; Atcham, T. A.; Ake, S. (1998) <i>Cahiers Agricultures</i> 7 (4), 281-284. Pefoura, A. M.; Blizoua-Bi, P.; Kobenan, K.; Kone, D. (1996) <i>Cahiers Agricultures</i> 5 (3), 181-184.				
Gabon	-	X	Foure, E. (1985) <i>Fruits</i> 40 (6), 393-399. Frossard, P. (1980) <i>Fruits</i> 35 (9), 519-527.				
NORTH AMERICA							
				Mexico	-	X	Manzo-Sanchez, G.; Orozco-Santos, M.; Guzman-Gonzalez, S. (2001) <i>Revista Mexicana de Fitopatologia</i> 19 (1), 66-71. Orozco-Santos, M.; Farias-Larios, J.; Manzo-Sanchez, G.; Guzman-Gonzalez, S. (2001) <i>Infomusa</i> 10 (1), 33-37. Herb. IMI. [Chiapas, Colima, Tabasco and Veracruz.]
				USA	-	X	
				Florida		X	Ploetz, R. C.; Mourichon, X. (1999) <i>Plant Disease</i> 83 (3), 300. [First record in continental USA.]
				Hawaii		X	Morelet, M. (1969) <i>Bulletin de la Societe des Sciences Naturelles et d'Archeologie de Toulon et du Var</i> 21, 104-106. Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68.

Records are based on bibliographic data from the CAB ABSTRACTS database, specimens in the IMI Herbarium retained at CABI Bioscience, UK Centre [Egham] and plant quarantine information compiled by EPPO

X: Present, no details A: Present, widespread B: Present, restricted distribution C: Present, few occurrences (D): Absent, formerly present (E): Eradicated (F): Intercepted only

Herb. IMI (1968); (1976).

CENTRAL AMERICA & CARIBBEAN

Belize	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.
Costa Rica	-	X	Burt, P. J. A.; Rosenberg, L. J.; Rutter, J.; Ramirez, F.; Gonzales O, H. (1999) <i>Annals of Applied Biology</i> 135 (1), 369-377. Lescol, T.; Simonot, H.; Fages, O.; Escalant, J. V. (1998) <i>Fruits (Paris)</i> 53 (1), 3-16. Rojas B., M.; Cruz, R. de la (1998) <i>Manejo Integrado de Plagas</i> 49, 58-67.
Cuba	-	X	Perez, L.; Hernandez, A.; Hernandez, L.; Perez, M. (2002) <i>Crop Protection</i> 21 (1), 17-23. Perez-Vicente, L.; Hernandez-Mancilla, A.; Porras-Gonzalez, A. (2000) <i>Revista Mexicana de Fitopatologia</i> 18 (1), 27-35. Vidal, A. (1992) <i>FAO Plant Protection Bulletin</i> 40 (1-2), 46. [var. <i>difformis</i> .]
Dominican Republic	-	X	Polanco, T.; Carlier, J.; Zapater, M. F. (2002) <i>Manejo Integrado de Plagas y Agroecologia</i> 64, 62-66.
El Salvador	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.
Guadeloupe	-	X	Lapeyre de Bellaire, L. de; Dubois, C. (1997) <i>Plant Disease</i> 81 (12), 1378-1383.
Guatemala	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.
Honduras	-	X	Romero, R. A.; Sutton, T. B. (1997) <i>Plant Disease</i> 81 (10), 1139-1142. Stover, R. H. (1980) <i>Plant Disease</i> 64 (8), 750-756. Stover, R. H.; Dickson, J. D. (1976) <i>FAO Plant Protection Bulletin</i> 24 (2), 36-42. Herb. IMI (1971); (1974); (1975).
Jamaica	-	X	Wilson, C. (1996) <i>CARAPHIN News</i> 13, 5.
Martinique	-	X	Bertrand, P.; Bonacina, K. (2002) <i>Phytoma</i> 551, 38-42.
Nicaragua	-	X	Mourichon, X.; Fullerton, R. A. (1990) <i>Fruits</i> 45, 213-218.
Panama	-	X	Bureau, E. (1990) <i>Fruits (Paris)</i> 45 (4), 329-338. Marcelino, L. A.; Sattler, R. (1988) <i>Ciencia Agropecuaria - Instituto de Investigacion Agropecuaria de Panama</i> 5, 19-37. [var. <i>difformis</i> .]

SOUTH AMERICA

Bolivia	-	X	Tejerina, J. C. (1997) <i>Plant Disease</i> 81 (11), 1332. [First record.]
Brazil	-	X	
Amazonas Para	-	X	Cordeiro, Z. J. M.; Matos, A. P. de; Oliveira e Silva, S. de (1998) <i>Infomusa</i> 7 (1), 31.
Sao Paulo	-	X	Trindade, D. R.; Poltronieri, L. S.; Menezes, A. J. E. A. (2002) <i>Fitopatologia Brasileira</i> 27 (3), 323-326.
Colombia	-	X	Campos Nogueira, E. M. de (2000) <i>Summa Phytopathologica</i> 26 (1), 156-158. Bernal Garzon, G. A.; Posada Mejia, C. M.; Piedrahita V., D. R. (1998) <i>Revista - Facultad Nacional de Agronomia Medellin</i> 51 (1), 237-252. Gomez Balbin, L. A.; Castano Zapata, J. (2001) <i>Infomusa</i> 10 (2), 3-7. Romero, M.; Diaz, T.; Castaneda, D.; Arango, R. (1999) <i>Revista - Facultad Nacional de Agronomia Medellin</i> 52 (1), 425-434.
Ecuador	-	X	Figuroa, L. (1987) <i>Revista Mexicana de Fitopatologia</i> 5 (2), 181-184.
Peru	-	X	Krauss, U.; Soberanis, W.; Jarra, J. (2001) <i>Infomusa</i> 10 (1), 21-26.
Suriname	-	X	Stover, R. H. (1977) <i>Transactions of the British Mycological Society</i> 69 (3), 500-502.
Venezuela	-	X	Carrero, C.; Cedeno, L.; Quintero, K. (2001) <i>Revista Forestal Venezolana</i> 45 (2), 213-218. Cedeno, L.; Carrero, C.; Quintero, K. (2000) <i>Fitopatologia Venezolana</i> 13 (1), 6-10. Delgado, E.; Paiva, R. (2001) <i>Revista de la Facultad de Agronomia, Universidad del Zulia</i> 18 (4), 277-289.

OCEANIA

American Samoa	-	X	Firman, I. D. (1975) <i>Plant Diseases in the Area of the South Pacific Commission</i> . 1. Banana Diseases. SPC, Noumea, New Caledonia.
Australia	-	X	
Queensland	-	X	Davis, R. I.; Grice, K. R. E.; Jacobson, S. C.; Gunua, T. G.; Rahamma, S. (2000) <i>Australasian Plant Pathology</i> 29 (3), 225. Jones, D. R. (1984) <i>Australasian Plant Pathology</i> 13 (4), 57-58. [Torres Strait region.]
Cook Islands	-	X	Anon. (1974) <i>Quarterly Newsletter Plant Protection Committee for the South East Asia and Pacific Region</i> 17 (3), 4-5. [First record.] Fullerton, R. A.; Olsen, T. L. (1995) <i>New Zealand Journal of Crop and Horticultural Science</i> 23 (1), 39-48. Fullerton, R. A.; Tracey, G. M. (1984) <i>Tropical Agriculture</i> 61 (2), 133-136.
Fed. States of Micronesia	-	X	Jones, D. R.; Mourichon, X. (1993) <i>Musa Disease Fact Sheet No. 2</i> . INIBAP, Montpellier, France.
Fiji	-	X	Meredith, D. S.; Lawrence, J. S.; Firman, I. D. (1973) <i>Transactions of the British Mycological Society</i> 60 (3), 547-554. Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68. Herb. IMI (1963); (1964); (1967); (1975).
French Polynesia	-	X	Firman, I. D. (1975) <i>Information Document No. 37</i> . South Pacific Commission.
New Caledonia	-	X	Kagy, V.; Mademba-Sy, F. (1997) <i>Journal of South Pacific Agriculture</i> 4 (1/2), 45-46.
Niue	-	X	Stover, R. H. (1976) <i>Tropical Agriculture</i> 53 (2), 111-114.
Norfolk Island	-	X	Jones, D. R. (1990) <i>Sigatoka Leaf Spot Diseases of Bananas. Proceedings of an International Workshop, 28 March-1 April 1989, San Jose, Costa Rica</i> (Ed. by Fullerton, R. A.; Stover, R. H.), 38-46. INIBAP, Montfermier-sur-Lez, France. Herb. IMI (1980).
Papua New Guinea	-	X	Davis, R. I.; Grice, K. R. E.; Jacobson, S. C.; Gunua, T. G.; Rahamma, S. (2000) <i>Australasian Plant Pathology</i> 29 (3), 225. Fullerton, R. A.; Olsen, T. L. (1995) <i>New Zealand Journal of Crop and Horticultural Science</i> 23 (1), 39-48. Herb. IMI.
Samoa	-	X	Fullerton, R. A.; Tracey, G. M. (1984) <i>Tropical Agriculture</i> 61 (2), 133-136. Herb. IMI (1975).
Solomon Islands	-	X	Stover, R. H. (1978) <i>Tropical Agriculture</i> 55 (1), 65-68.
Tonga	-	X	Fullerton, R. A.; Tracey, G. M. (1984) <i>Tropical Agriculture</i> 61 (2), 133-136. Jones, D. R. (1993) <i>Tropical Agriculture</i> 70 (1), 39-44. Herb. IMI (1975).
Vanuatu	-	X	Herb. PDD (1983). [Source: http://nzfungi.landcareresearch.co.nz/]

Distribution note. Records from the previous map for Central African Republic, Kalimantan (Indonesia), Sarawak (Malaysia) and Wallis and Fortuna Islands, and from CABI (2002) for Fujian (China), were based on personal communications and are unconfirmed. In addition, a record for Singapore from the previous map is now considered unreliable, and none of the above are included in this edition.

Records from the previous map for Guinea-Bissau, Niger, Haiti, Netherlands Antilles and the North Mariana Islands have been found to be erroneous and have also been excluded for the purposes of this map.

CABI (2002) *Crop Protection Compendium*. CAB International, Wallingford, UK.