

Pest reporting in the EPPO European and Mediterranean Plant Protection Organization

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EPPO's information systems on pests

European and Mediterranean Plant
Protection Organization

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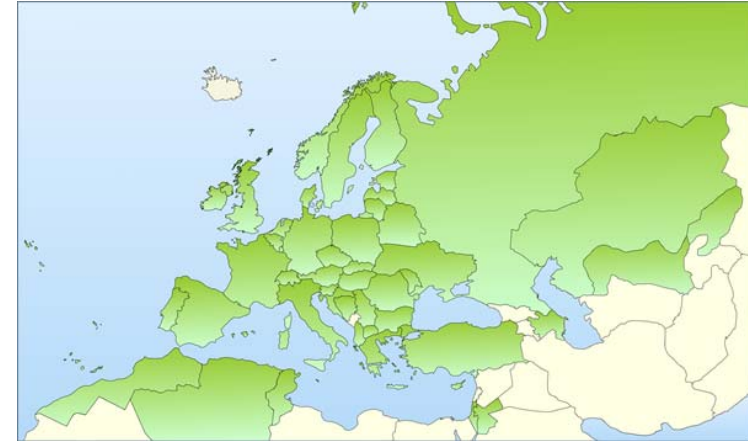
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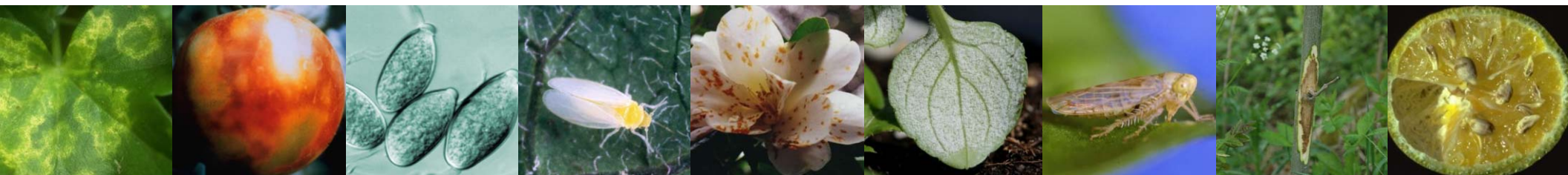
European and Mediterranean Plant Protection Organization (EPPO)

- EPPO is an intergovernmental organization
- Created in 1951 by 15 countries
- It has now 50 member countries
- EPPO promotes international cooperation in plant protection: plant quarantine and plant protection products
- EPPO works with National Plant Protection Organizations (Plant Protection Services)



EPPO's missions

- ❖ **Prevent entry and spread of harmful organisms** (of crops, forests, natural environments)
- ❖ **Collects Official Pest Reports** from countries, and all information available on pests (watch on all media)
- ❖ **Provide information to EPPO members** (particularly on quarantine pests and pests which may present a risk to the Euro-Mediterranean region)



How information on pests is disseminated by EPPO?

EPPO information sources on paper

The organization's scientific journal, **Bulletin OEPP/EPPO Bulletin** (three times a year)

⇒ **Contents: into four categories:**

- **EPPO standards (all new or revised standards)**
- **papers presented at EPPO conferences**
- **papers submitted for publication**
- **annual report.**





"A journal of regulatory plant protection"

EPPO information sources on paper

- **Most of other paper issues have been abandoned, given now on digital formats, safe:**
- **EPPO collection of phytosanitary regulations (of member countries), published several times year;**
- **EPPO books:**
 - **“Quarantine pests for Europe”**

How information on pests is disseminated by EPPO?

EPPO electronic information sources

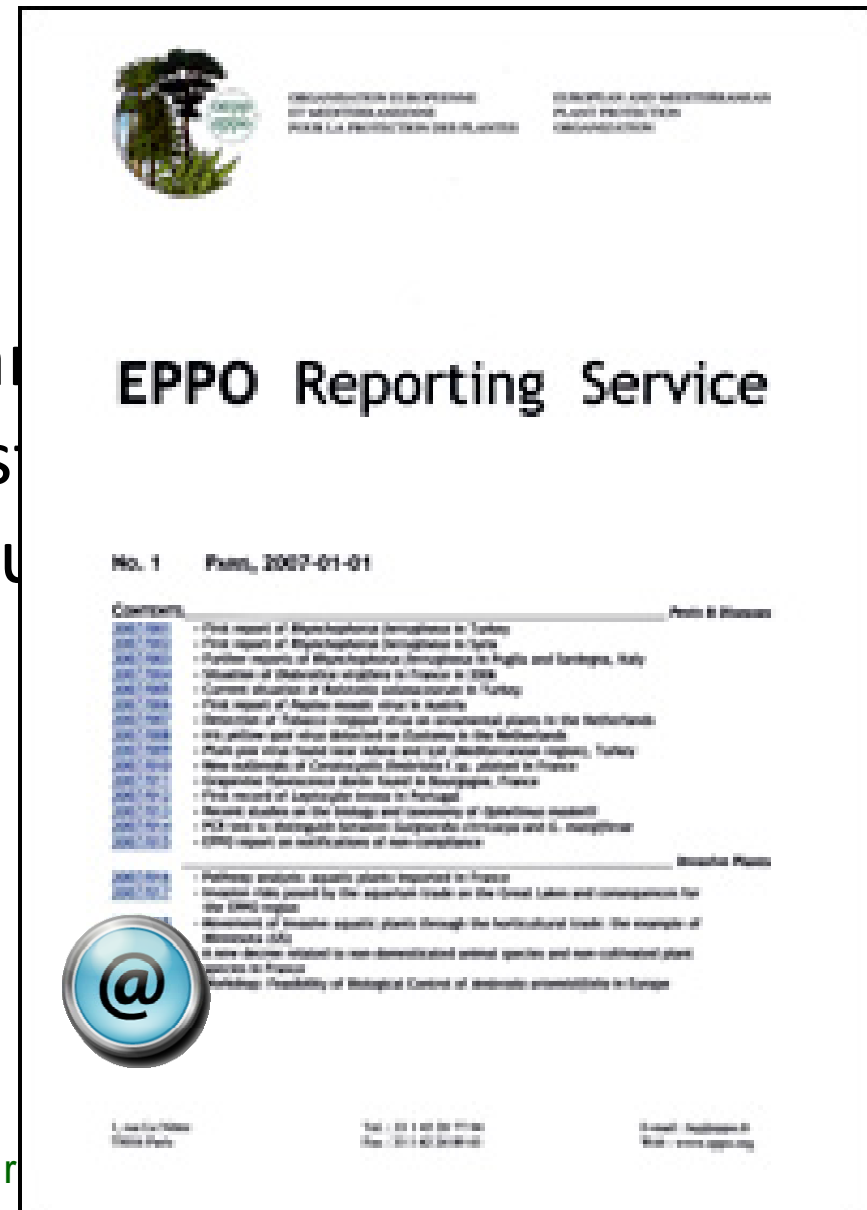
-  1 EPPO Reporting Service (free monthly newsletter)
-  2 EPPO Alert List: early warning on new possible risks (online)
-  3 EPPO website (datasheets, maps, diagnostic protocols, pictures)
-  4 Global database on pests (host plants geographical distribution, quarantine status, pathways) – under construction

1 - EPPO Reporting Service: a free monthly newsletter

It contains:

- New data on biology, host plant methods and geographical distribution of pests and pests of potential quarantine concern
- Interception reports
- Additions to the EPPO Alert List, etc.

Available by e-mail



1 - EPPO Reporting Service: an example of a first record

EPPO Reporting Service – *Pests & Diseases*

2007/022 First report of *Rhynchophorus ferrugineus* in Cyprus

The NPPO of Cyprus informed the EPPO Secretariat that *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae - EPPO A2 List) has recently been found on palm trees on its territory. The pest was observed for the first time on 2006-09-14 and its identity was confirmed on 2006-09-18 by the laboratories of the Plant Protection Section of the Department of Agriculture and the Agricultural Research Institute in Cyprus. *R. ferrugineus* was found on 4 palm trees (*Phoenix canariensis*) in the garden of a hotel located on the coastal area of Lemesos. The pest was then detected in isolated cases, in the areas of Nicosia and Larnaca, also on *P. canariensis* grown in private and public gardens. All infested plants were removed and burned. In addition, the NPPO of Cyprus has taken measures in: 1) training all plant health inspectors in the identification and handling of infested palm trees; 2) informing the public on the appearance of *R. ferrugineus* (newspapers, announcements on radio and television programmes). Further surveys are being carried out to delimit the extent of the infestation of *R. ferrugineus* in Cyprus. The pest status of *Rhynchophorus ferrugineus* in Cyprus is officially declared as follows: **Present, first recorded in Cyprus in 2006, 3 outbreaks, official measures are taken for its eradication.**

Source: NPPO of Cyprus, 2006-12.

Additional key words: new record

Computer codes: RHYCFE, CY



2 - EPPO Alert List:



early warning on potentially new pest problems

The Alert List provides early warning

It is constantly updated by the EPPO Secretariat

Situation of each pest is reviewed critically every year by EPPO experts:

⊘ possible candidates for Pest Risk Analysis (so they may eventually be considered as quarantine pests)

✓ when alert has been given and if no further action is recommended, pests are deleted after 3 years on the list

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Organisation Européenne et Méditerranéenne pour la Protection des Plantes

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Drosophila suzukii (Diptera: Drosophilidae)

Spotted wing drosophila

Why: *Drosophila suzukii* is an Asian pest of fruit crops which has almost simultaneously been introduced into North America and in Italy (in 2008 and 2009, respectively). Because the pest has a high potential for spread and can cause economic damage to many fruit crops, the EPPO Secretariat decided to add *D. suzukii* to the Alert List.

Adults of *Drosophila suzukii* (left: male - right: female). Please note that because of the angle at which the male specimen was photographed, wings appear oval but in reality they are elongate. [View more pictures](#)
Pictures were kindly provided by Dr Gary Steck, Florida Dept. of Agriculture & Consumer Services, Gainesville (US)

Where:
EPPO region: Italy (province of Trento - Trentino-Alto Adige region), Russia (Far East).
Note: Hauser *et al.* (2009) mention that *D. suzukii* has been found in October 2008 in Spain near Barcelona. The EPPO Secretariat is currently verifying this information. In their paper, it was also mentioned that unconfirmed records had been made from Montpellier and the Alps in France, but the French NPPD confirmed that *D. suzukii* has not been reported from its territory and that no specimens have ever been sent to their official laboratories for identification.
Asia: China (Guangxi, Guizhou, Henan, Hubei, Yunnan, Zhejiang), India (Chandigarh, Jammu and Kashmir, Uttar Pradesh), Japan (Hokkaido, Honshu, Kyushu, Ryukyu), Korea Republic (including Cheju island), Myanmar, Russia (Primor'e region - Far East), Thailand.
North America: Canada (British Columbia, first found in autumn 2009 in the Fraser Valley area and caught in a cherry orchard in the Central Okanagan Valley), USA (Hawaii introduced into the 1980s; California (2008), Oregon (2009), Washington (2009)).

3 - Information on quarantine pests:

EPPO website www.eppo.org



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What's New

- Working Party on Plant Protection Products (Siegen, 18/20 May)
- Panel on Quarantine Pests for Forestry (Cardiff, 17/19 March)
- EPPO Workshop for Russian-speaking experts on ISPMs and EPPO standards (Kiev, 08/12 February)
- Panel on Phytosanitary Measures (Paris, 16/19 February)
- Workshop on PRA for French-speaking experts (Hammamet, 09/12 Février)
- [View the presentations](#)
- Panel on Efficacy Evaluation of Herbicides and PGRs (Ludwigshafen, 24/25 March)
- EWG for performing PRA on *Epitrix* spp. (Paris, 11/14 January, 31 March/01 April)
- New EU Plant Protection Products Legislation
- EPPO activities related to honeybees
- Pictorial glossary of Morphological Terms in Nematology: a new EPPO

EPPO is an intergovernmental organization responsible for European cooperation in plant health. Founded in 1951 by 15 European countries, EPPO now has 50 members, covering almost all countries of the European and Mediterranean region. Its objectives are to protect plants, to develop international strategies against the introduction and spread of dangerous pests and to promote safe and effective control methods. As a Regional Plant Protection Organization, EPPO also participates in global discussions on plant health organized by FAO and the IPPC Secretariat. Finally, EPPO has produced a large number of standards and publications on plant pests, phytosanitary regulations, and plant protection products. [more information](#) »

3 - Information on quarantine pests:



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EPPO activities on plant quarantine

One of the aims of EPPO is to help its member countries to prevent entry or spread of dangerous pests (plant quarantine). The Organization has therefore been given the task of identifying pests which may present a risk, and of making proposals on the phytosanitary measures which can be taken. In recent years, the identification of risk has been formalized, because transparent justifications of phytosanitary measures are required and phytosanitary measures have to be commensurate with the risk. Several EPPO Standards on Pest Risk Analysis (PRA) are now available. To perform these activities, much information on pests presenting a risk to the EPPO region is required and has been collected by the Organization. Most of it (data sheets, maps, diagnostic protocols and pictures) can be retrieved here.

EPPO Pest Lists with pest-specific information

You can read here an [introduction to the EPPO Pest Lists](#)

-  **EPPO A1 and A2 Lists of pests recommended for regulation as quarantine pests** as approved by EPPO Council in September 2009 ([A1/A2 Lists pdf version](#))
 - [A1 List](#)
 - [A2 List](#)
-  **EPPO Alert List:** pests possibly presenting a risk to EPPO member countries (early warning)
-  **EPPO Action List** of A1 and A2 pests recommended for regulation, but not yet included in EPPO member countries' phytosanitary regulations
-  **Priority list of invasive alien plants** to be managed in EPPO member countries
-  **Other documented pests**

3 - Information on quarantine pests:

EPPT/EPPO website www.eppt.eppo.org

The screenshot shows a Mozilla Firefox browser window displaying the EPPO Plant Protection Thesaurus (EPPT) search page. The browser's address bar shows the URL <http://eppt.eppo.org/search.php>. The page title is "EPPO Plant Protection Thesaurus EPPT". The main heading is "EPPO Plant Protection Thesaurus" followed by "EPPT" and "Search EPPT".

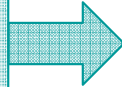
On the left side, there is a sidebar with a search bar and a list of links under the heading "Chercher :". The links include "Signets MAP", "Barre Personnelle", "Favoris IE importés", "base de données phyto US", "Bienvenue sur Nodia", "Délégation à l'orientation et au suivi des i...", "Google", "Guide des stations de radio", "http-www.manche.equipement.gouv.fr...", "Legifrance - Le service public de l'accès a...", "Liens", "MAAPAR - Home", "MSN", "Média", "Pages jaunes - annuaire téléphonique", "Événements Web", "Global Invasive Species Database", "Bienvenue sur l'intranet de la DDAF de la Mar...", "Saint-Vincent et les Grenadines : Carte - Politi...", "Modification d'événement : Sun ONE Calenda...", "PRPV ocean indien", "Bienvenue sur Nodia", "Observatoire des Résidus de Pesticides", "http://www.nhc.noaa.gov/jtp(pub)/forecasts...", "SDNCYCLONE - les cyclones sur les îles du Nord", "Navigation dans la carte", "Enseignement Agricole Public Antilles-Guyane ...", "about:blank", "Site MOVAC", "Portada", "Galabie - Galabie", "Bienvenue dans le Centre de Ressources de T...", "Sociologie culturelle Madin'Art Créatives Cult...", "http://www.ctqui.com", "Phoetus/Contacts - annuaire de la Protection ...", and "Observatoire des Résidus de Pesticides".

The main content area features a search form with the following elements:

- A text input field containing "mycosphaerella".
- A "Search" button.
- A "Search by :" dropdown menu set to "Both".
- A "Search language:" dropdown menu set to "All available".
- A "Results per page :" dropdown menu set to "50".
- A "Search mode" section with radio buttons for "Whole word", "Starting with...", "Containing the word", "Use soundex algorithm", and "Find children".
- A "Type of entity" section with checkboxes for "Plant", "Animal", "Microorganism", and "Group classifier".

At the bottom of the browser window, the taskbar shows the "démarrer" button, several application icons, and the system tray with the date "08-19" and the language "FR".

Additional
information on
specific pests



Pest Risk Analysis

You can find here [background information on PRA, EPPO Standards, PRAs](#) carried out for specific pests and useful links.



Special topics



Anoplophora glabripennis has been found at Corbetta in June 2007, Lombardia (Italy), where it is subject to an eradication programme. You can read a paper on the situation in Italy and the pest itself prepared by F. Hérard, M. Maspero, N. Ramualde, C. Jucker, M. Colombo, M. Ciampitti and B. Cavagna. [View](#)



Aleurocanthus spiniferus has been introduced into Apulia (Italy). You can read here a paper on this first record for Italy and Europe written by Prof. F. Porcelli.



Anoplophora chinensis has been introduced into Lombardia (Italy), where it is subject to an eradication programme. Get more information on the situation in Italy and the pest itself.



Bactrocera zonata has been introduced into the Near East and the EPPO region. Get more information on the situation in Europe and the pest itself.



Diabrotica virgifera has been introduced into Central and Eastern European countries and continues to spread in Europe. Get more information on the situation in Europe and the pest itself.



Paysandisia archon has been introduced into Europe. You can read here a paper on its situation in the South of Italy ' *Paysandisia archon* (Burmeister, 1880) escapes from nurseries and colonizes large palms in South Italy' by F. Porcelli, R. Monfreda, M. S. Ricci, N. Stingi, C. Cavallo, G. Pellizzari.



Rhynchophorus ferrugineus is spreading around the Mediterranean Basin and threatens palm trees. You can view here a presentation by Dr Griffo (NPPO of Italy, Regione Campania) about the situation of the red palm weevil in Italy.



[EPPO project on quarantine pests for forestry](#). View the outcome of this project which focused on the risks from forest pests present in the former USSR (mainly its Asian part).

FAO Glossary of phytosanitary terms (ISPM no. 5, 2008)

You can download the [FAO Glossary of phytosanitary terms](#) (pdf file), and the multilingual index of Phytosanitary terms (in [English](#) and in [French](#)).





Eppo quarantine pest

Prepared by CABI and Eppo for the EU

Data Sheet

• Eppo Standards •

DIAGNOSTIC PROTOCOLS FOR REGULATED PESTS

BURSAPHELENCHUS XYLOPHILUS

PM 7/4(1) English

oepp
eppo

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1, rue Le Nôtre, 75016 Paris, France

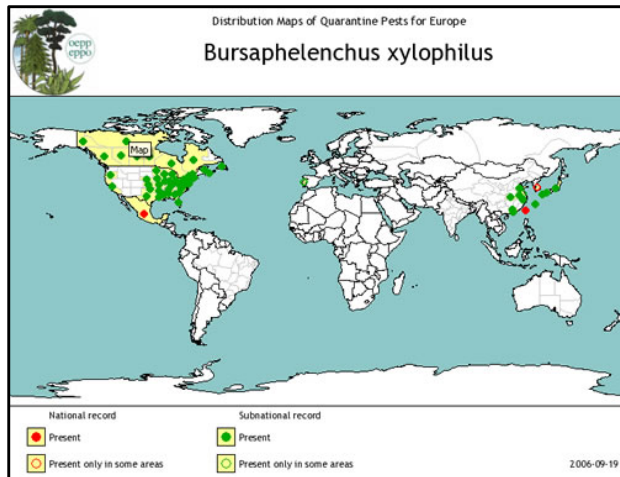
Bursaphelenchus xylophilus

The vectors of *Bursaphelenchus xylophilus* are listed in Annex 1 of Directive 77/93. Since their importance varies, they are not covered in this data sheet.

IDENTITY

Bursaphelenchus xylophilus
 Name: *Bursaphelenchus xylophilus*
 Synonym: *Aphelenchoides xylophilus*
Bursaphelenchus ligni
Bursaphelenchus xylophilus
 Taxonomic position: Nematoda: Aphelenchomorpha
 Common names: Pine wood nematode
 Nématode du bois (French)
 Kiefernholz nematode (German)

Notes on taxonomy and nomenclature
Aphelenchoides xylophilus (Steiner) Steiner & Jägerskiöld, 1957
Bursaphelenchus lignicola, when described from Japan (Mamiya & Eiyohara, 1972), 1981). A very similar but non-pathogenic species was described from Japan (Mamiya & Enda (1979), differing from *xylophilus* and most obviously by the shape of the head projection) in the former species which were subsequently discovered. There has thus been much discussion about the status of *xylophilus* and also with *B. prasinus* in Europe. Biochemical studies of *B. xylophilus* confirmed the distinctness of the three species. *B. xylophilus* is a native of North America colonizing coniferous trees, the other two species are obviously an introduced species. *Bursaphelenchus xylophilus* from *Larix* from the far east of the Far East has not been studied extensively but is probably a new species. It has been detected in Europe (Harmey, 1993), but it is not known in the EU. Bayer computer code: BURSXY
 Eppo A1 list: No. 158
 EU Annex designation: II/A1
 EU Annex designation: II/A1
 • *Monochamus* spp.
 Taxonomic position: Insecta: Coleoptera
 Names and synonyms: See Table 1
 EU Annex designation: I/A1 - as M



For each pest you can download:

- Datasheets
- Diagnostic protocols
- Distribution maps
- Pictures

European and Mediterranean Plant Protection Organization
Organisation Européenne et Méditerranéenne pour la Protection des Plantes

Eppo A1 List of pests recommended for regulation as quarantine pests
(version 2009-09)

Eppo recommends its member countries to regulate the pests listed below as quarantine pests (A1 pests are absent from the Eppo region). The Eppo A1 List is reviewed every year by the Working Party on Phytosanitary Regulations and approved by Council.

For geographical distribution, please note that data may not be up-to-date in the datasheets (most were published in 1997), please consult distribution maps (generated from PQR 4.5, December 2005).

A2 List

Bacteria and phytoplasmas









Citrus Huanglongbing (Citrus greening) and its vectors <i>Dialiphorina citri</i> and <i>Trioxys erythrae</i>	ds	fr	map	-	pest
<i>Liberibacter africanus</i>	ds	fr	map	-	pest
<i>Liberibacter asiaticus</i>	ds	fr	map	-	pest
<i>Co. Phytoplasma ulmi</i> (Elm phloem necrosis) and its vector <i>Scaphoideus luteolus</i>	ds	fr	map	-	pest
Palm lethal yellowing phytoplasma (and its putative vector <i>Myndus strabus</i>)	ds	fr	map	-	pest
Peach rosette phytoplasma	ds	fr	map	-	-
Peach yellows phytoplasma	ds	fr	map	-	-
Potato purple-top wilt phytoplasma	ds	fr	map	-	-
Western X-disease phytoplasma	ds	fr	map	-	pest
<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	(ds)	-	-	-	-
<i>Xanthomonas axonopodis</i> pv. <i>citri</i>	ds	fr	map	diag	pest
<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>	ds	fr	map	-	pest

3 - EPPO Gallery of pictures

EPPO Gallery

[Accueil](#) / [Pests](#) / [Insects](#) / **Anoplophora chinensis (ANOLCN)**

diaporama << < 1 > >> page 1|1

 <p>02/10/2008 1152 visites</p>	 <p>02/10/2008 1105 visites</p>	 <p>02/10/2008 1132 visites</p>	 <p>29/06/2007 2969 visites</p>	 <p>29/06/2007 2472 visites</p>	 <p>29/06/2007 2200 visites</p>
	 <p>29/06/2007 3126 visites</p>	 <p>29/06/2007 2366 visites</p>			

[RSS pictures](#)

2nd International Workshop on invasive plants in the Mediterranean region of the world (1-6 August 2010, ...)
First announcement

Quick links
Choose one

© 2009 EPPO - All Rights Reserved - Updated on Oct 15, 2009

July 13th 2010 [EPPO Gallery](#) Dominicana

4 - EPPO Global database



Database which contains information about many plant pests and invasive alien plants (EPPO A1/A2 pests, EU listed pests and many other regulated pests for other parts of the world)

- ❖ Host plants
- ❖ Geographical distribution
- ❖ Plant commodities liable to carry quarantine pests

At present, the earlier version of the database (formerly called PQR) can be downloaded from the EPPO website, but it is now under re-construction (it will be an online database, called EPPO global database)



4 - EPPO Global database


Details about pest distributions and access to the relevant articles of the EPPO Reporting Service

The screenshot shows the EPPO Global Database interface for *Anoplophora glabripennis* (ANOLGL). The main content area displays the following information:

- Distribution in Austria:** Current pest situation evaluated by EPPO on the basis of information dated 2008: **Present, few occurrences**. First recorded in: 2001.
- From NPPO:** Present, few occurrences.
- References:** [RS 2001/135](#) a small population found in a small avenue over a length of a few 100 m, in Braunau (near the German border, in Oberösterreich). All infested trees were destroyed. [RS 2009/073](#) still confined to Braunau. Number of infested trees has declined. [RS 2009/044](#) still confined to Braunau. Number of infested trees detected in 2008. Eradication efforts are continuing in Austria.
- References:** * NPPO of Austria (2001-08, 2004-04, 2008-12).

The interface also features a table of neighboring countries and a detailed report on the first report of *Anoplophora glabripennis* in Austria.

ISO	Country	State	Situation
DE	Germany		Present, few occurrences
HU	Hungary		Absent, confirmed by survey
IT	Italy		Present, few occurrences



EPPO Reporting Service

2001/135 First report of *Anoplophora glabripennis* in Austria

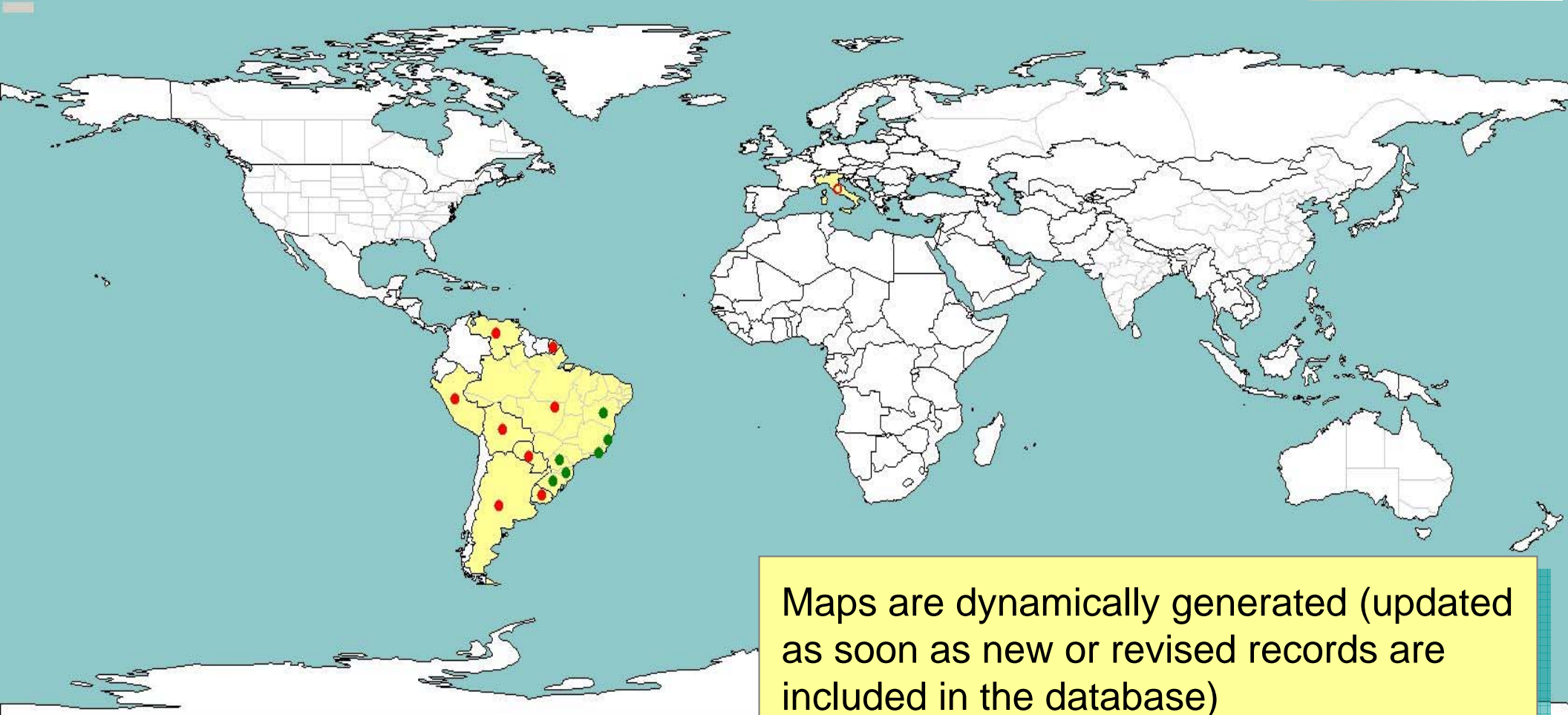
The NPPO of Austria recently informed the EPPO Secretariat of the introduction of *Anoplophora glabripennis* (Coleoptera, Cerambycidae – EPPO A1 quarantine pest) in Austria. In July 2001, the first beetles were detected in the small city of Braunau am Inn (near the German border) and a few days later they were identified as *A. glabripennis* by the Institute of Forest Protection. Grub holes and other symptoms were found on 40 trees (all *Acer* species, and mainly *A. platanoides*). Eradication measures were immediately taken. All infested trees and all those suspected of being infested were cut down and wood was cut into small pieces. All living beetles (approximately 100) which fed on the leaves and trunks were collected and killed by the Plant Protection Service. All infested trees were situated along a small avenue over a distance of a few hundred metres. Surveys were done and as of August 17th, no other beetles were found in the city, in its surroundings nor in the state of Oberösterreich. Further monitoring will continue. This report of *A. glabripennis* in Austria constitutes the first record for Europe.

Source: NPPO of Austria, 2001-08.

Additional key words: new record Computer codes: ANOLGL, AT

4 - EPPO Global database

Maps displaying geographical distribution – Example of *Megaplatypus mutatus*

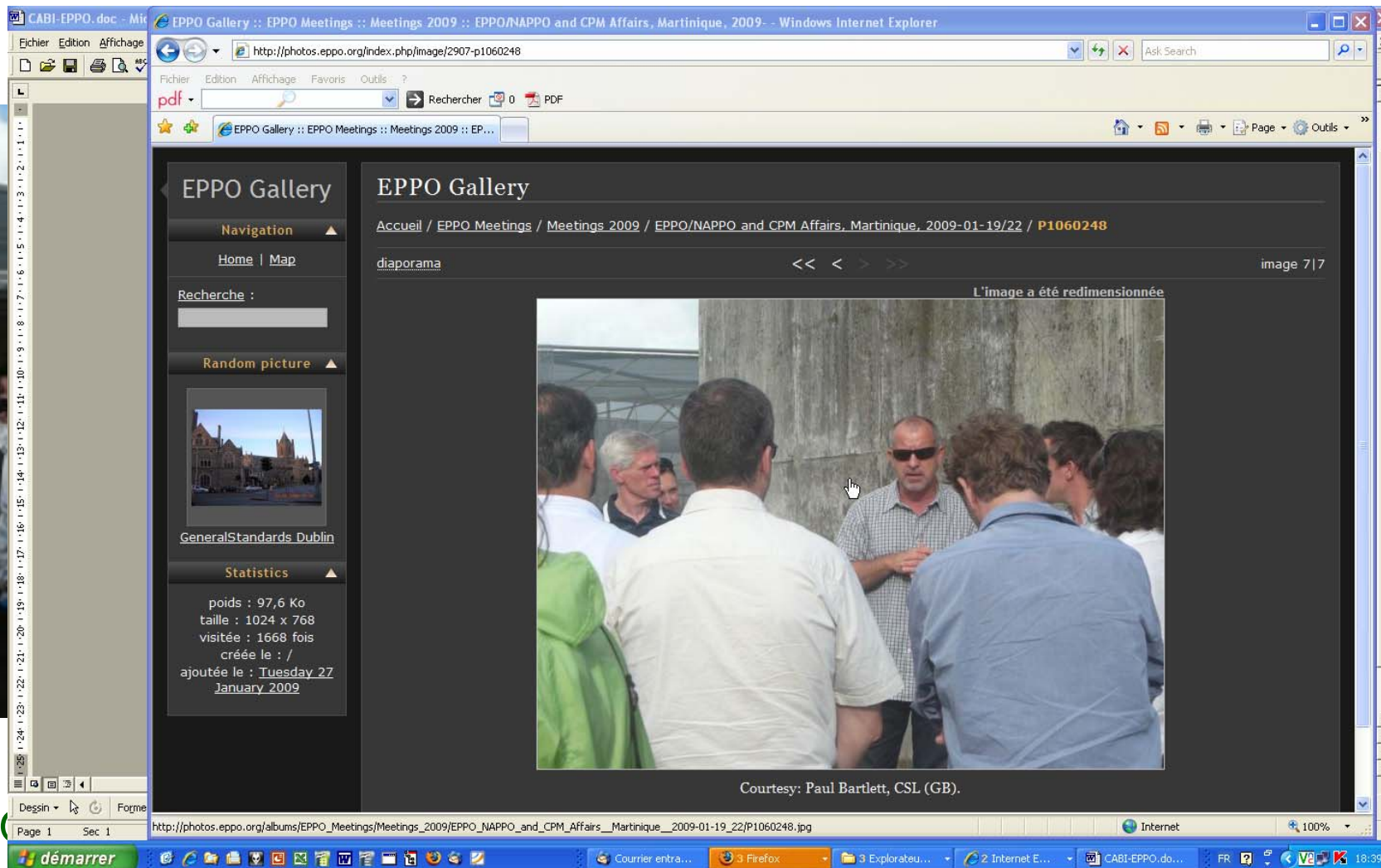


Maps are dynamically generated (updated as soon as new or revised records are included in the database)

- | <u>National record</u> | <u>Subnational record</u> |
|------------------------------|------------------------------|
| ● Present | ● Present |
| ○ Present only in some areas | ○ Present only in some areas |

EPPO Workshops

Several workshops are organized by EPPO,
some of them together with NAPPO



EPPO

Martinique, January

0

CFC

inicana



EPPO Workshops

sharing experiences

First announcement:

**EPPO Workshop on Eradication,
Containment and contingency planning**

Treviso, Italy

October 26th-28th, 2010



Thank you for your attention

