

ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION

EPPO Reporting Service

No. 5 Paris, 2016-05

General	
<u>2016/093</u> 2016/094	EPPO report on notifications of non-compliance PQR - the EPPO database on quarantine pests: new update
Pests	
<u>2016/095</u> 2016/096	Eradication of <i>Thrips palmi</i> from Germany <i>Euwallacea</i> sp. and its symbiotic fungus <i>Fusarium euwallaceae</i> : addition to the EPPO Alert List
2016/097	Arboridia kakogawana: a new pest of grapevine in the EPPO region
2016/098	Igutettix oculatus: an invasive pest of lilac
<u>2016/100</u> 2016/101	<i>Ricania japonica:</i> a new polyphagous insect found in the EPPO region First report of <i>Trachymela sloanei</i> in Spain
Diseases	
<u>2016/102</u> 2016/103 2016/104	<i>Acidovorax citrulli</i> no longer occurs in Serbia First report of <i>Phytophthora kernoviae</i> in Chile First report of <i>Beet necrotic yellow vein virus</i> in South Africa
Invasive plants	
2016/105 2016/106 2016/107	The current situation of <i>Solanum elaeagnifolium</i> in the Mediterranean Basin Pre-adaption or genetic shift in the invasive alien plant <i>Impatiens glandulifera</i> LIFE project: Mitigating the threat of invasive alien plants in the EU through pest risk analysis to support the EU Regulation 1143/2014

2016/093 EPPO report on notifications of non-compliance

The EPPO Secretariat has gathered below the notifications of non-compliance for 2016 received since the previous report (EPPO RS 2016/051). Notifications have been sent to EPPO via Europhyt for the EU countries and Switzerland. The EPPO Secretariat has selected notifications of non-compliance made because of the detection of pests. Other notifications of non-compliance due to prohibited commodities, missing or invalid certificates are not indicated. It must be pointed out that the report is only partial, as many EPPO countries have not yet sent their notifications. When a consignment has been re-exported and the country of origin is unknown, the re-exporting country is indicated in brackets. When the occurrence of a pest in a given country is not known to the EPPO Secretariat, this is indicated by an asterisk (*).

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Aleyrodidae	Leucanthemum x superbum, Felicia amelloides, Lavandula angustifolia, Pelargonium, Sutera cordata	Cuttings	Tanzania	Spain	1
Anthonomus eugenii	Capsicum chinense	Vegetables	Mexico	Netherlands	2
Atherigona orientalis	Capsicum annuum	Vegetables	India	Germany	1
Atherigona orientalis, Helicoverpa armigera	Capsicum	Vegetables	Kenya	Germany	1
Atherigona orientalis, Helicoverpa armigera	Capsicum annuum	Vegetables	Bangladesh	Germany	1
Bemisia	Salvia	Cuttings	Ethiopia	United Kingdom	1
Bemisia afer	Manihot esculenta	Vegetables (leaves)	Mauritius	France	1
Bemisia tabaci	Ajuga Amaranthus viridis Apium graveolens Artemisia Aster Callisia Capsicum Corchorus Corchorus Corchorus Corchorus Corchorus olitorius Corchorus olitorius	Cuttings Vegetables (leaves) Vegetables (leaves) Cut flowers Cuttings Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Plants for planting Plants for planting Plants for planting Cuttings Plants for planting	Kenya Sierra Leone Laos Laos Zimbabwe Tanzania Pakistan Ghana Laos Nigeria Vietnam Bangladesh Jordan Laos Nigeria Sierra Leone Vietnam Thailand Italy Portugal USA	United Kingdom United Kingdom United Kingdom United Kingdom Netherlands Netherlands United Kingdom United Kingdom	$\begin{array}{c}1\\1\\1\\1\\1\\1\\1\\2\\1\\2\\1\\1\\1\\2\\1\\1\\1\\1\\1\\1$
	Eryngium	Vegetables (leaves)	Laos	United Kingdom	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
<i>B. tabaci</i> (cont.)	Eryngium foetidum Eryngium foetidum,	Vegetables (leaves) Vegetables (leaves)	Malaysia Laos	Netherlands Sweden	1 3
	Melissa officinalis, Ocimum tenuiflorum				
	Eryngium foetidum, Ocimum	Vegetables (leaves)	Laos	Netherlands	1
	Eryngium foetidum, Ocimum tenuiflorum	Vegetables (leaves)	Laos	Sweden	1
	Eryngium foetidum, Persicaria odorata	Vegetables (leaves)	Laos	Sweden	1
	Hebe	Cuttings	Ethiopia	Netherlands	2
	Hibiscus	Plants for planting	Italy	United Kingdom	1
	Hibiscus sabdariffa	Vegetables (leaves)	Togo	Belgium	1
	Hibiscus sabdariffa,	Vegetables	Togo	Belgium	1
	Ipomoea batatas	5	5	5	
	Ipomoea	Vegetables (leaves)	Congo, Dem. Rep.	Belgium	2
	, Ipomoea	Vegetables (leaves)	Ghana	United Kinadom	1
	, Ipomoea	Vegetables (leaves)	Τοαο	France	1
	Ipomoea aquatica	Vegetables	Vietnam	United Kingdom	1
	lpomoea batatas	Vegetables	Ghana	United Kingdom	2
	Ipomoea batatas	Vegetables	Sierra Leone	United Kingdom	1
	lpomoea batatas	Vegetables	Τοαο	United Kingdom	1
	Ipomoea. Hibiscus	Vegetables (leaves)	Τοαο	Belaium	1
	sabdariffa	· · · · · · · · · · · · · · · · · · ·		9	
	Jatropha	Plants for planting	Netherlands	United Kingdom	1
	Lantana	Plants for planting	Italy	United Kingdom	1
	Lantana camara	Cuttings	Ethiopia	Netherlands	1
	Lantana camara	Plants for planting	Netherlands	United Kingdom	1
	Lippia	Cuttings	Israel	United Kingdom	1
	Lisianthus	Cut flowers	Netherlands	United Kingdom	1
	Ludwigia	Plants for planting	Indonesia	United Kingdom	1
	Mandevilla	Cuttings	Brazil	Netherlands	1
	Mandevilla	Plants for planting	Netherlands	United Kingdom	1
	Mandevilla	Plants for planting	Portugal	United Kingdom	1
	Manihot	Vegetables	Cameroon	Belaium	2
	Manihot esculenta	Vegetables	Ghana	United Kingdom	1
	Manihot esculenta	Vegetables	Indonesia	Netherlands	1
	Melissa officinalis, Ocimum tenuiflorum	Vegetables (leaves)	Laos	Sweden	1
	Melissa officinalis, Ocimum tenuiflorum, Ocimum, Piper	Vegetables (leaves)	Laos	Sweden	1
	sarmentosum				
	Melissa officinalis,	Vegetables (leaves)	Laos	Sweden	1
	Ocimum, Persicaria				
	odorata				
	Mentha suaveolens, Scabiosa columbaria	Cuttings	Kenya	Netherlands	1
	Mentha x piperita	Vegetables (leaves)	Laos	Sweden	1
	Monarda	Cuttings	Costa Rica	Netherlands	2
	Nerium oleander	Plants for planting	Netherlands	United Kingdom	1
	Nerium oleander	Plants for planting	Spain	United Kingdom	1
	Ocimum	Vegetables (leaves)	Ġhana	United Kingdom	1
	Ocimum	Vegetables (leaves)	Laos	Netherlands	1
	Ocimum	Vegetables (leaves)	Laos	United Kingdom	2
	Ocimum basilicum	Vegetables (leaves)	Canary Isl. (Spain)	Switzerland	1
	Ocimum basilicum	Vegetables (leaves)	Laos	United Kingdom	1
	Ocimum gratissimum	Vegetables (leaves)	Nigeria	United Kingdom	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
<i>B. tabaci</i> (cont.)	Ocimum	Vegetables (leaves)	Ghana	United Kingdom	1
	Kilimandscharicum Ocimum tenuiflorum Paederia Perilla frutescens Polygonum Polygonum Rumex Salvia Solidago Unspecified Vernonia	Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Cuttings Vegetables (leaves) Vegetables (leaves) Cuttings Cut flowers Cuttings Vegetables	Laos Laos Laos Thailand Laos Malaysia Nigeria Ethiopia Ethiopia Costa Rica Ghana	France Sweden United Kingdom Sweden Netherlands United Kingdom United Kingdom Netherlands Netherlands United Kingdom United Kingdom	2 3 1 1 1 1 1 1 1 1
Bemisia tabaci, Liriomyza sativae	Ocimum tenuiflorum	Vegetables (leaves)	Laos	Sweden	1
Blissus diplopterus	Pyrus pyraster	Fruit	South Africa	United Kingdom	1
Botrytis, Diaporthe eres, Fusarium	Vaccinium corymbosum	Plants for planting	USA	Spain	1
Clavibacter michiganensis subsp. michiganensis	Solanum lycopersicum Solanum lycopersicum	Seeds Seeds	China India	Italy France	1 1
Clavibacter michiganensis subsp. sepedonicus	Solanum tuberosum Solanum tuberosum	Ware potatoes Ware potatoes	Poland Turkey	Hungary Bulgaria	1 2
Coccidae	Murraya paniculata	Vegetables (leaves)	Bangladesh	Italy	1
Coccidae, Lepidoptera, Nematoda	Actinidia	Plants for planting	China	Italy	1
Coccidae, Tetranychidae	Dracaena	Plants for planting	Laos	Denmark	1
Coleoptera	Impatiens	Cuttings	Israel	Spain	1
Coleosporium asterum	Solidago	Cut flowers	Kenya	United Kingdom	1
Curculionidae	Impatiens	Cuttings	Israel	Spain	1
Earias	Abelmoschus esculentus	Vegetables	India	Spain	1
Earias vittella	Abelmoschus esculentus Abelmoschus esculentus	Vegetables Vegetables	Sri Lanka Thailand	Germany France	1 1
Ephestia kuehniella	Prunus domestica	Stored products	Chile	Spain	1
Globodera pallida	Solanum tuberosum	Ware potatoes	Italy	Germany	1
Helicotylenchus	Selaginella	Plants for planting	Thailand	United Kingdom	1
Helicoverpa armigera, Thaumatotibia leucotreta	Capsicum	Vegetables	Kenya	Germany	1
Lepidoptera, Tephritidae	Capsicum frutescens	Vegetables	Bangladesh	Italy	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Liriomyza	Amaranthus Allium fistulosum Amaranthus Apium graveolens Chrysanthemum Dendranthema Gypsophila Ocimum Ocimum Ocimum basilicum Ocimum basilicum Ocimum tenuiflorum	Vegetables (leaves) Vegetables Vegetables (leaves) Vegetables Cut flowers Vegetables (leaves) Cut flowers Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves)	Bangladesh Jamaica Sri Lanka Laos Colombia Colombia Ecuador Laos Thailand Laos Laos Laos	United Kingdom United Kingdom Czech Republic United Kingdom United Kingdom Italy United Kingdom United Kingdom Czech Republic United Kingdom United Kingdom	1 3 2 1 3 2 1 1 1 2 1
Liriomyza huidobrensis	Apium graveolens Dianthus barbatus Dianthus barbatus Gypsophila Gypsophila	Vegetables Cut flowers Plants for planting Cut flowers Cut flowers	Laos* Kenya Kenya Ecuador Ecuador	Germany Netherlands Netherlands Germany Netherlands	1 1 2 1 1
Liriomyza sativae	Ocimum americanum Ocimum basilicum Ocimum basilicum Ocimum basilicum Ocimum tenuiflorum	Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables (leaves)	Laos* Cambodia Laos* Laos* Laos*	Sweden France Germany Sweden Sweden	3 2 1 1 1
Liriomyza sativae, Thrips palmi	Ocimum basilicum, Ocimum americanum, Ocimum tenuiflorum	Vegetables (leaves)	Laos	Netherlands	1
Liriomyza trifolii	Apium graveolens Gypsophila	Vegetables Cut flowers	Laos* Israel	Sweden Netherlands	1 1
Meloidogyne	Chlorophytum	Plants for planting	Malaysia	United Kingdom	1
Phyllosticta citricarpa	Citrus limon	Fruit	Brazil	United Kingdom	1
Phytophthora ramorum	Rhododendron Rhododendron hybrids Rhododendron ponticum Rhododendron ponticum	Plants for planting Plants for planting Plants for planting Plants for planting	Netherlands United Kingdom France Netherlands	United Kingdom United Kingdom United Kingdom United Kingdom	1 1 1 1
Plum pox virus	Prunus domestica Prunus domestica Prunus persica	Plants for planting Plants for planting Plants for planting	Bosnia and Herzegovina Serbia Moldova	Croatia Bulgaria Bulgaria	1 1 1
Potato spindle tuber viroid	Capsicum annuum	Seeds	USA	United Kingdom	1
Pseudococcus elisae	Musa Musa Musa	Fruit Fruit Fruit	Costa Rica Ecuador Guadeloupe	Italy Switzerland Italy	2 1 2
Quadraspidiotus perniciosus	Prunus salicina	Fruit	South Africa	Italy	1
Radopholus similis	Calathea lutea, Philodendron, Ravenala madagascariensis	Plants for planting	Thailand	Netherlands	1

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Spodoptera	Capsicum Capsicum Spinacia oleracea	Vegetables Vegetables Vegetables (leaves)	Jamaica Nigeria Dominican Rep.	United Kingdom United Kingdom United Kingdom	1 1 1
Spodoptera dolichos, Spodoptera eridania, Spodoptera frugiperda	Solanum macrocarpon	Vegetables	Suriname	Netherlands	1
Spodoptera eridania	Solanum macrocarpon	Vegetables	Suriname	Netherlands	1
Spodoptera frugiperda	Capsicum	Vegetables	Suriname	Netherlands	1
Spodoptera littoralis	Rosa Solidago	Cut flowers Cut flowers	Tanzania Zambia	Sweden Netherlands	1 1
Spodoptera litura	Lagenaria siceraria	Vegetables	Bangladesh	Sweden	1
Sternochetus	Mangifera indica	Fruit	Uganda	Italy	1
Thaumatotibia leucotreta	Capsicum Capsicum Capsicum Capsicum Capsicum Capsicum Capsicum Capsicum Capsicum annuum Capsicum annuum Capsicum annuum Capsicum annuum Capsicum annuum Capsicum futescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens Capsicum frutescens	Vegetables Vegetables	Kenya Kenya Mozambique South Africa Tanzania Uganda Uganda Zimbabwe Kenya Uganda Uganda Uganda Uganda Zimbabwe Uganda South Africa Uganda Israel Uganda	Germany Netherlands United Kingdom United Kingdom Netherlands Netherlands United Kingdom Germany United Kingdom Netherlands United Kingdom United Kingdom United Kingdom Netherlands Netherlands Netherlands Netherlands Netherlands United Kingdom France United Kingdom	1 4 3 1 2 14 6 1 1 6 1 1 6 1 4 1 2 1 1
Thripidae	Abelmoschus esculentus Amaranthus Amaranthus Amaranthus Cucurbita pepo Dendrobium Momordica Momordica Momordica charantia Momordica charantia Momordica charantia Momordica charantia Momordica solarantia Solanum	Vegetables Vegetables (leaves) Vegetables (leaves) Vegetables (leaves) Vegetables Cut flowers Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables Vegetables	India Bangladesh Jamaica Vietnam Pakistan Thailand Bangladesh Dominican Rep. Laos Bangladesh Dominican Rep. Laos Laos	United Kingdom United Kingdom	2 1 1 1 5 3 1 1 2 1 2 1 2

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Thrips palmi Thrips palmi	Dendrobium Dendrobium Momordica charantia Momordica charantia Momordica charantia Ocimum Orchidaceae Orchidaceae	Cut flowers Cut flowers Vegetables Vegetables Vegetables Vegetables (leaves) Cut flowers Cut flowers	Thailand Thailand Bangladesh Laos Laos Laos Thailand Thailand	Italy Netherlands France Germany Netherlands Netherlands Austria Hungary	2 3 1 1 1 1 1 1
	Solanum melongena	Vegetables	Dominican Rep.	France	1
Thysanoptera	Momordica charantia	Vegetables	Dominican Rep.	France	1
Tortricidae	Capsicum	Vegetables	Kenya	United Kingdom	1
Trioza erytreae	Murraya koenigii	Vegetables (leaves)	Uganda	United Kingdom	3
Tuckerella	Actinidia deliciosa	Fruit	Italy	Spain	1
Xanthomonas arboricola pv. pruni	Prunus laurocerasus	Plants for planting	France	United Kingdom	1
Xanthomonas citri subsp. citri	Citrus hystrix	Vegetables (leaves)	(Thailand)	Germany	1
Xanthomonas fragariae	Fragaria	Plants for planting	Spain	Belgium	1

• Fruit flies

Pest	Consignment	Country of origin	Destination	nb
Bactrocera	Ziziphus mauritiana Capsicum annuum Momordica charantia Psidium guajava Psidium guajava Trichosanthes Ziziphus mauritiana	Bangladesh Pakistan Bangladesh Laos Malaysia Bangladesh Bangladesh	United Kingdom Austria United Kingdom United Kingdom United Kingdom United Kingdom	1 1 1 1 1 2
Bactrocera cucurbitae	Momordica charantia Trichosanthes dioica	Sri Lanka Bangladesh	France Sweden	1 2
Bactrocera dorsalis	Syzygium jambos	(Vietnam)	Germany	1
Bactrocera latifrons	Capsicum Capsicum annuum	(Thailand) Laos	Germany Sweden	1 1
Bactrocera tau	Momordica charantia	Bangladesh	Sweden	1
Ceratitis capitata	Capsicum	Mauritius	France	1
Ceratitis cosyra	Mangifera indica	Burkina Faso	Netherlands	1
Tephritidae (non-European)	Averrhoa carambola Capsicum Capsicum Capsicum Capsicum annuum	Malaysia Laos Senegal South Africa Laos	Netherlands United Kingdom France France United Kingdom	1 1 1 1

Pest	Consignment	Country of origin	Destination	nb
Tephritidae (non-European)	Capsicum frutescens	Thailand	Switzerland	1
	Chrysophyllum cainito	Vietnam	United Kingdom	1
	Citrus sinensis	Egypt	Spain	2
	Mangifera indica	Burkina Faso	France	2
	Mangifera indica	Cameroon	Belgium	1
	Mangifera indica	Cameroon	France	4
	Mangifera indica	Cameroon	Switzerland	1
	Mangifera indica	Colombia	France	1
	Mangifera indica	Mali	France	1
	Mangifera indica	Mexico	United Kingdom	1
	Mangifera indica	Uganda	France	1
	Manilkara zapota	Venezuela	United Kingdom	1
	Momordica	Ethiopia	United Kingdom	1
	Momordica charantia	Sri Lanka	France	1
	Syzygium	Jamaica	United Kingdom	1
	Trichosanthes	Bangladesh	United Kingdom	1
	Trichosanthes dioica	Bangladesh	United Kingdom	3
	Ziziphus	Thailand	France	1
	Ziziphus jujuba var. spinosa	India	United Kingdom	1
	Ziziphus jujuba var. spinosa	Pakistan	United Kingdom	1
	Żiziphus mauritiana	Bangladesh	United Kingdom	4

• Wood

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Anoplophora	Unspecified	Wood packaging material	China	Netherlands	1
Anoplophora glabripennis	Unspecified Unspecified Unspecified Unspecified	Wood packaging material Wood packaging material Wood packaging material (pallet) Wood packaging material (pallet)	China China China China	France Netherlands Austria Germany	1 1 1 1
Anoplophora glabripennis, Xyleborus	Unspecified	Wood packaging material (pallet)	China	Austria	1
Apriona	Unspecified	Wood packaging material (crate)	China	Netherlands	1
Apriona germari	Unspecified	Wood packaging material	China	Netherlands	1
Arhopalus, Xylosandrus	Unspecified	Wood packaging material (pallet)	China	Austria	1
Blepephaeus succinctor	Unspecified	Wood packaging material	China	Germany	1
Bostrichidae	<i>Chlorophora excelsa</i> Unspecified	Wood and bark Wood packaging material (pallet)	Congo, Dem. Rep. China	Spain Switzerland	1 1
Bursaphelenchus	Unspecified	Dunnage	Israel	Switzerland	1
mucronatus	Unspecified	Wood packaging material (pallet)	Israel	France	9
Cerambycidae	Unspecified Unspecified Unspecified	Wood packaging material Wood packaging material Wood packaging material (pallet)	China China China	Netherlands United Kingdom Austria	1 1 2

EPPO Reporting Service 2016 no. 5 - General

Pest	Consignment	Type of commodity	Country of origin	Destination	nb
Cerambycidae, Xyleborus	Unspecified	Wood packaging material (pallet)	China	Austria	1
Coleoptera	Unspecified	Wood packaging material	China	Netherlands	1
Dicelosternus corallinus	Unspecified	Wood packaging material (pallet)	China	Germany	1
Hepialidae	Unspecified	Wood packaging material	China	Netherlands	1
Insecta	Unspecified Unspecified Unspecified	Dunnage Wood packaging material Wood packaging material (pallet)	China China China	France France Switzerland	1 1 1
Lyctus	Unspecified	Wood packaging material (pallet)	China	Austria	1
Nematoda	Unspecified	Wood packaging material (pallet)	China	Slovenia	1
Polygonia comma, Saperda	Ulmus rubra	Wood and bark	USA	Italy	1
Rhagium	Larix	Wood and bark	Russia	Germany	1
Scolytidae	Unspecified Unspecified	Wood packaging material Wood packaging material	China China	Germany Netherlands	1 1
Sesia	Unspecified	Dunnage	China	Estonia	1
Sinoxylon	Unspecified Unspecified	Wood packaging material (pallet) Wood packaging material	South Africa Vietnam	Germany Germany	1 1
Xyleborus	Unspecified	Wood packaging material (pallet)	China	Austria	4
Xyleborus , Cerambycidae	Unspecified	Wood packaging material (pallet)	China	Austria	1
Xyleborus, Xylosandrus	Unspecified	Wood packaging material (pallet)	China	Austria	1
Xylosandrus	Unspecified	Wood packaging material (pallet)	China	Austria	1

• Bonsais

Pest	Consignment	Country of origin	Destination	nb
Alternaria alternata, Aphelenchus, Ditylenchus, Gynaikothrips ficorum, Josephiella microcarpae, Meloidogyne, Pratylenchus, Saissetia oleae, Tylenchorhynchus	Ficus thonningii	China	Italy	1
Anoplophora chinensis	Acer palmatum	China	Netherlands	1
Gymnosporangium asiaticum	Juniperus	Japan	United Kingdom	1
Lepidoptera	Pinus parviflora	Japan	Germany	2
Xiphinema	Pinus	Japan	United Kingdom	1

EPPO Secretariat (2016-04). EUROPHYT. Annual and monthly reports of interceptions of harmful organisms in Source: imported plants and other objects. http://ec.europa.eu/food/plant/plant_health_biosecurity/europhyt/interceptions/index_en.htm

2016/094 PQR - the EPPO database on guarantine pests: new update

PQR - the EPPO database on quarantine pests (geographical distributions, host plants, regulatory status, pathways, and pictures) was updated on 2016-05-25. If PQR has already been installed on your computer, when opening the database you will be automatically notified that a new update is available.

The following new items have been added since the previous update (2015-09-28)

- World distributions: e.g. Aleurotrachelus trachoides, Bactrocera latifrons, Ceratothripoides brunneus, Ceratothripoides claratris, Contarinia pseudotsugae, Blueberry mosaic associated virus, Euwallacea fornicatus, Igutettix oculatus, Penthimiola bella, Prodiplosis longifila, Thekopsora minima.
- Pest and plant pictures: e.g. Ambrosia confertiflora, Apriona germari, Citrus yellow vein clearing virus, Cydonia oblonga, Cyperus esculentus, Ficus carica, Heracleum mantegazzianum, Humulus scandens, Juglans regia, Leptinotarsa decemlineata, Narcissus sp., Nerium oleander, Nicandra physalodes, Prosopis juliflora, Pseudomonas syringae pv. pisi, Quadraspidiotus perniciosus, Solanum carolinense, Sorghum halepense, Toumeyella pinicola, Vitis vinifera, Wisteria sinensis, Xylella fastidiosa.
- All recent data from the EPPO Reporting Service (August 2015 to April 2016) and updated pest statuses sent by several NPPOs of EPPO member countries.

The EPPO Secretariat takes this opportunity to thank all photographers who have kindly provided their photos. More would be most welcome and can easily be uploaded via the EPPO Global Database!

If you have not already installed PQR on your computer, you can download it (free) from the EPPO website: <u>http://www.eppo.int/DATABASES/pgr/pgr.htm</u>

Source: EPPO Secretariat (2016-05).

Practical guide to upload photos via the EPPO Global Database. https://gd.eppo.int/media/files/photos_user-guide.pdf

Additional key words: database, EPPO

2016/095 Eradication of *Thrips palmi* from Germany

In October 2014, *Thrips palmi* (Thysanoptera: Thripidae - EPPO A1 List) was detected for the first time in Germany (EPPO RS 2014/180). The pest was found on cyclamens in one glasshouse of a trial facility of the Chamber of Agriculture in Straelen (Nordrhein-Westfalen). All infested cyclamen plants and other potential host plants (e.g. *Aquilegia caerulea, Aubrieta* sp., *Aurinia saxatilis, Brassica* sp. *Capsicum annuum, Cucumis sativus, Dianthus* sp., *Lavandula angustifolia, Primula vulgaris, Rosa* sp., *Saxifraga* sp., *Solanum lycopersicum*) grown on the premises and its vicinity were destroyed. After one year of intensive monitoring in the outbreak site and production companies located within a radius of 1 km, *T. palmi* was not found. The NPPO of Germany thus considers that the pest has been successfully eradicated.

The pest status of *Thrips palmi* in Germany is officially declared as: Absent, eradicated.

Source: NPPO of the Germany (2016-05).

Pictures: Thrips palmi. <u>https://qd.eppo.int/taxon/THRIPL/photos</u>

Additional key words: absence, eradication

Computer codes: THRIPL, DE

2016/096 Euwallacea sp. and its symbiotic fungus Fusarium euwallaceae: addition to the EPPO Alert List

Why: since the mid-2000s, an ambrosia beetle, *Euwallacea* sp. (Coleoptera: Curculionidae: Scolytinae) and one of its obligate symbiotic fungi (Fusarium euwallaceae, a newly described species) have been reported to cause dieback and mortality on numerous trees and shrubs in Southern California (US) and Israel. One of the main concerns is that this complex has been found on avocado (Persea americana) which is an economically important crop. Ambrosia beetles are associated with symbiotic fungi which are introduced by females into the larval galleries and serve as a food source for adults and larvae. The identity of this newly found beetle remains to be clarified. It is morphologically indistinguishable from Euwallacea fornicatus (tea shot hole borer) but significant differences in mitochondrial and nuclear DNA suggest that it is a distinct species. In order to avoid confusion with the 'tea shot hole borer', the common name 'polyphagous shot hole borer' is currently used in the American literature. It is suggested that *E. fornicatus* is a complex of cryptic species, each carrying different symbiotic fungi. E. fornicatus was originally described as a pest of tea (Camellia sinensis) in Ceylon (Sri Lanka), where it is associated with Fusarium ambrosium. Experiments have shown that larvae of E. fornicatus collected from tea in Sri Lanka were not able to complete their life cycle when fed with F. euwallaceae, and likewise larvae of Euwallacea sp. were not able to survive on F. ambrosium. Associations between ambrosia beetles and their symbionts are complex. Three different fungal species, F. euwallaceae, Graphium euwallaceae sp. nov. and Paracremonium pembeum sp. nov., have recently been identified in association with Euwallacea sp. adults and larvae. Although the role of these different fungal species in the insect's biology and plant pathogenicity remains to be further studied, observations and experiments have demonstrated that F. euwallaceae is able to cause a severe wilt disease on many tree species. In this short description, it has been assumed that F. euwallaceae is the main pathogen associated with the emerging disease that is currently observed in Southern California and Israel. Considering the damage caused by the association of Euwallacea sp. and F. euwallaceae on avocado, as well as on many other tree species, the

EPPO Panel on Phytosanitary Measures suggested that both organisms should be added to the EPPO Alert List.

Where: it is generally accepted that the genus *Euwallacea* is of Asian origin, and that *E. fornicatus* probably originates from Southeastern Asia. According to the literature, the distribution of *E. fornicatus (sensu lato)* is given as follows:

EPPO region: Israel.

Africa: Comoros, Madagascar, Reunion.

Central America: Costa Rica, Guatemala, Panama.

North America: USA (California, Florida, Hawaii).

Asia: Bangladesh, Cambodia, China (Guangdong, Hong Kong, Sichuan, Xizhang, Yunnan), India (Assam, Karnataka, Kerala, Maharashtra, Tamil Nadu, Uttar Pradesh, West Bengal), Indonesia (Java, Kalimantan, Sumatra), Israel, Japan (Honshu, Ryukyu Archipelago), Laos, Malaysia (Sabah, Sarawak, West), Myanmar, Philippines, Sri Lanka, Taiwan, Thailand, Vietnam.

Oceania: Australia, Fiji, Micronesia, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Vanuatu.

The origin and geographical distribution of *Euwallacea* sp. and of its associated fungi are largely unknown. For the moment, *F. euwallaceae* has only been detected in California and in Israel. In 2009, *Euwallacea* sp. was first found in Israel in association with a damaging *Fusarium* wilt on several tree species (including avocado) in urban and agricultural areas. In the USA, *Euwallacea* sp. was first collected on *Robinia pseudoacacia* in Whitter Narrows near Los Angeles in California. Mortality on *Acer negundo* street trees was first noticed in Long Beach (Los Angeles county) in 2010. In 2012 *Euwallacea* sp. and *Fusarium* dieback were first detected on backyard avocado trees in Los Angeles county. By 2013, the pest complex was detected in Los Angeles, Orange, and San Bernardino counties on many tree species in urban environments, as well as in some commercial avocado orchards in Los Angeles county (South Gate, Downey and Hacienda Heights). In the county of San Diego, a beetle population presenting some molecular differences from the ones collected from other parts of Southern California has been found. It is suggested that this population might correspond to a separate introduction or even to another *Euwallacea* species which is called 'Kuroshio shot hole borer' in some Internet sources.

On which plants: *E. fornicatus sensu lato* is one of the few ambrosia beetles which can infest healthy plants. In Asia, it has been recorded on more than 200 plant species and is considered to be a destructive pest of several economically important woody plants, such as tea (*Camellia sinensis*), avocado (*Persea americana*), *Citrus* and cacao (*Theobroma cacao*). Plants in at least 48 other families have been reported as occasional hosts, including Anacardiaceae, Burseraceae, Fabaceae, Moraceae, and Salicaceae.

Studies have been conducted in California to determine the main hosts of both *Euwallacea* sp. and *F. euwallaceae*, and in particular those which could sustain the whole life cycle of the beetle. This list includes the following species but is likely to be an underestimate of the host range: Acer buergerianum, Acer macrophyllum, Acer negundo, Acer palmatum, Acer paxii, Albizia julibrissin, Alectryon excelsus, Ailanthus altissima, Alnus rhombifolia, Castanospermum australe, Cercidium floridum, Erythrina corallodendrum, Eucalyptus ficifolia, Ilex cornuta, Liquidambar styraciflua, Parkinsonia aculeata, Persea americana, Platanus racemosa, Platanus x acerifolia, Populus fremontii, Populus trichocarpa, Prosopis articulata, Quercus suber, Quercus agrifolia, Quercus engelmannii, Quercus lobata, Quercus robur, Ricinus communis, Salix babylonica, Salix gooddingii, Salix laevigata, Wisteria floribunda.

In Israel, the main host of economic importance is avocado but damage has also been reported on several ornamental trees including *Acer negundo*, *Quercus robur*, *Quercus robur*, *Duercus robur*, *subsp. pedunculiflora*, and *Ricinus communis*. The beetle attacks the major avocado cultivars grown in Israel (i.e. cvs. 'Haas', 'Pinkerton' and 'Ettinger' - cv. 'Haas' being the most susceptible). *F. euwallaceae* has been isolated from these cultivars in several avocado growing areas and from *A. negundo*.

Damage: signs of infestation can include entry holes, presence of frass and small tubes of compacted sawdust, discoloration of the outer bark surrounding the beetle penetration site, large amounts of white powdery exudate covering penetration sites, brownish staining of the xylem under the infested spot, gumming, wilting of branches and leaf yellowing, branches broken at the site of beetle galleries, and death of both young and mature trees. In Southern California, tree mortality has been observed on *Acer negundo, Alnus rhombifolia, Platanus racemosa, Ricinus communis, Quercus robur, Salix laevigata*, and the pest complex is considered to be a serious threat to avocado production. Extensive damage on avocado has also been reported in Israel, as well as on some ornamental trees. *Euwallacea* sp. is a small beetle which is difficult to see. Females are black (1.8-2.5 mm long). Males are rarely found; they are small (1.5-1.67 mm long), wingless and brown coloured. Larvae and pupae develop inside galleries in the wood. Pictures can be viewed on the Internet:

http://cisr.ucr.edu/polyphagous_shot_hole_borer.html https://cisr.ucr.edu/pdf/polyphagous_shot_hole_borer.pdf http://www.moag.gov.il/agri/files/Ambrosia_problem_Alonim_Israel_2012.pdf

Dissemination: *F. euwallaceae* is transferred into its hosts by the beetle. Adult female beetles have mandibular mycangia in which the fungal symbiont is transported within and from the larval galleries. No data is available about the natural spread of the beetle, but it is likely to be rather limited (only females can fly). It is not known how these organisms have been introduced into California and Israel, but the transport and trade of infested plant material is likely to ensure long distance dispersal.

Pathway: plants for planting, wood and bark, wood packaging material of host species from countries where the pest complex occurs.

Possible risks: avocado is an economically important crop in parts of the EPPO region (e.g. Israel, Spain), both Euwallacea sp. and F. euwallaceae have been identified as posing a serious threat to this crop. Many tree species included in the known range of the pest complex are grown in the EPPO region for ornamental or forestry purposes. Although more studies are needed on the potential for establishment of Euwallacea sp. and F. euwallaceae in the EPPO region (e.g. under cool/cold climates), they have been able to establish in Israel indicating that other Mediterranean countries are probably at risk. Due to their hidden mode of life, chemical control of ambrosia beetles is difficult. No data is available about the potential use of biocontrol agents or resistant tree varieties. Traps using a lure (quercivorol, an aggregation pheromone of *Platypus quercivorus*) are being developed in the USA to monitor beetle populations. Removal of heavily infested trees may reduce local populations of the beetle, but no data is available to support this as a management option. An Express PRA carried out in Spain for all species belonging to the genus Euwallacea that are morphologically similar to E. fornicatus concluded that these species presented a high and moderate risk for Southern and Northern Europe, respectively. As the emergence of Euwallacea sp. and F. euwallaceae is associated with mortality of important tree species used for fruit production, amenity and forestry purposes, it is desirable to avoid any further spread of these organisms within the EPPO region.

Sources

- Anonymous (2015) Express Pest Risk Analysis for the ambrosia beetle *Euwallacea* sp. including all the species within the genus *Euwallacea* that are morphologically similar to *E. fornicatus*. Ministerio de Agricultura Alimentacion y Medio Ambiante. Spain, 61 pp.
- Carillo D, Narvaez T, Cossé AA, Stouthamer R, Cooperband M (2015) Attraction of Euwallacea nr. fornicatus (Coleoptera: Curculionidae: Scolytinae) to lures containing quercivorol. *Florida Entomologist* **98**(2), 780-782.
- Danthanarayana W (1968) The distribution and host-rang of the shot-hole borer (*Xyleborus fornicatus* Eichh.) of tea. *Tea Quarterly* no. 39, 61-69.
- Eatough Jones M, Paine TD (2015) Effect of chipping and solarization on emergence and boring activity of a recently introduced ambrosia beetle (*Euwallacea* sp., Coleoptera: Curculionidae: Scolytinae) in Southern California. *Journal of Economic Entomology* **108**(4), 1852-1859.
- Eskalen A, Gonzalez A, Wang DH, Twizeyimana M, Mayorquin JS, Lynch SC (2012) First report of a Fusarium sp. and its vector tea shot hole borer (*Euwallacea fornicatus*) causing Fusarium dieback on avocado in California. *Plant Disease* **96**(7), p 1070.
- Eskalen A, Stouthamer R, Lynch SC, Twizeyimana M, Gonzalez A, Thibault T (2013) Host range of Fusarium dieback and its ambrosia beetle (Coleoptera: Scolytinae) vector in southern California. *Plant Disease* **97**(7), 938-951.
- Freeman S, Protasov A, Sharon M, Mohotti K, Eliyahu M, Okon-Levy N, Maymon M, Mendel Z (2012) Obligate feed requirement of *Fusarium* sp. nov., an avocado wilting agent, by the ambrosia beetle *Euwallacea* aff. *fornicata. Symbiosis* 58(1), 245-251.
- Freeman S, Sharon M, Dori-Bachash M, Maymon M, Belausov E, Maoz Y, Margalit O, Protasov A, Mendel Z (2016) Symbiotic association of three fungal species throughout the life cycle of the ambrosia beetle *Euwallacea* nr. *fornicatus*. *Symbiosis* 68(1), 115-128.
- Freeman S, Sharon M, Maymon M, Mendel Z, Protasov A, Aoki T, Eskalen A, O'Donnell K (2013) *Fusarium euwallaceae* sp. nov. a symbiotic fungus of *Euwallacea* sp., an invasive ambrosia beetle in Israel and California. *Mycologia* **105**(6), 1595-1606. INTERNET
- Fera (GB) Rapid Pest Risk Analysis (PRA) for Polyphagous Shot Hole Borer (Euwallacea sp.) and Fusarium Dieback (Fusarium euwallaceae).
- https://secure.fera.defra.gov.uk/phiw/riskRegister/plant-health/documents/euwallacea.pdf
- University of California. Center for Invasive Species Research. Polyphagous shot hole borer. http://cisr.ucr.edu/polyphagous_shot_hole_borer.html
- University of California. Distribution map of Polyphagous shot hole borer. <u>http://ucanr.maps.arcgis.com/apps/Viewer/index.html?appid=3446e311c5bd434eabae98937f085c</u> <u>80</u>
- EC Blog. Topics in subtropics. Polyphagous and Kuroshio shot hole borers. http://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=19197
- University of Florida. Featured Creatures. *Euwallacea fornicatus*. http://entnemdept.ufl.edu/creatures/trees/beetles/tea_shot_hole_borer.htm
- USDA-APHIS. New Pest Advisory Group Report dated 2013-02-19. *Euwallacea fornicatus* Eichhoff: Tea shot-hole borer.

https://www.aphis.usda.gov/plant_health/cphst/npag/downloads/Euwallacea_fornicatusNPAG_LT .pdf

- USDA-Forest Service. Pest Alert. New pest complex in California: The Polyphagous Shot Hole Borer, Euwallacea sp., and Fusarium dieback, *Fusarium euwallaceae*. https://cisr.ucr.edu/pdf/pest_alert_pshb_and_fd.pdf
- Lynch SC, Twizeyimana M, Mayorquin JS, Wang DH, Na F, Kayim M, Kasson MT, Thu PQ, Bateman C, Rugman-Jones P, Hucr J, Stouthamer R, Eskalen A (2016) Identification, pathogenicity and abundance of *Paracremonium pembeum* sp. nov. and *Graphium euwallaceae* sp. nov. two newly discovered mycangial associates of the polyphagous shot hole borer (*Euwallacea* sp.) in California. *Mycologia* **108**(2), 313-329.

Mendel Z, Protasov A, Sharon M, Zveibil A, Ben Yehuda S, O'Donnell K, Rabaglia, Wysoki M, Freeman S (2012) An ambrosia beetle *Euwallacea fornicatus* and its novel symbiotic fungus *Fusarium* sp. pose a serious threat to the Israeli avocado industry. *Phytoparasitica* **40**(3), 235-238.

Sharon M, Maymon M, Protasov A, Margalit O, Mohotti K, O'Donnell K, Mendel Z, Freeman S (2015) Dissemination of the fungi *Fusarium euwallaceae*, *Graphium* sp. and *Acremonium* sp., in symbiosis with the ambrosia beetle *Euwallacea nr. fornicatus*. *Phytoparasitica* 43(3), p 378.

EPPO RS 2016/096 Panel review date

Additional key words: Alert List

Entry date 2016-05

Computer codes: XYLBFO, FUSAEW, IL, US

2016/097 Arboridia kakogawana: a new pest of grapevine in the EPPO region

Arboridia kakogawana (Hemiptera: Cicadellidae) was first described in Japan (Honshu) and then found in the Republic of Korea and the Russian Far East (Primorsky krai). In its native range, *A. kakogawana* lives in broadleaved and mixed forests and feeds on *Vitis amurensis*. In 1999, it was discovered near Goryachy Klyuch in Krasnodar krai (Southern Russia). In the 2000s, *A. kakogawana* was recorded as a pest of grapevine (*Vitis vinifera*) in vineyards of Russia and the Republic of Korea. Nymphs and adults feed on the lower leaf surface, causing discoloration and necrosis which can then have negative impacts on the maturation of grapes. During surveys conducted in 2000-2003, *A. kakogawana* was collected in large numbers on grapes in private plots and urban grapevine plantations in Krasnodar. In 2006-2007, it was collected in other localities in Krasnodar and Rostov oblast. In Krasnodar and Rostov, two generations per year have been observed. In the Republic of Korea, observations have shown that, in October, adults move from vineyards to nearby forests in search of trees to overwinter under the bark. In 2008, *A. kakogawana* was also detected near Yalta on the southern coast of Crimea. Since then, it has been spreading throughout vineyards on the peninsula.

Source: Gnezdilov VM, Sugonyaev ES, Artokhin KS (2008) Arboridia kakogawana: a new pest of grapevine in southern Russia. Redia 91, 51-54. Gnezdilov VM, Sugonyaev ES, Artokhin KS (2008) Arboridia kakogawana: a new pest of grapevine in southern Russia. Bulletin of Insectology 61(1), 203-204. INTERNET Radionovskaya YA, Didenko LV (2014) Invasion of grapes by Arboridia kakogawana Mats. and its bioecological peculiarities in Crimea. http://www.ipp.gov.ua/attachments/article/66/KZR-2014-08_Radionovskaya_Ya.E.,_Didenko_L.V._INVASION_OF_GRAPES_BY_ARBORIDIA_KA KOGAWANA_MATS._AND_ITS_BIOECOLOGICAL_PECULIARITIES_IN_CRIMEA.pdf

Additional key words: new record

Computer codes: ARBOKA, RU, UA

2016/098 Igutettix oculatus: an invasive pest of lilac

Igutettix oculatus (Hemiptera: Cicadellidae - Iilac leafhopper) originates from Japan and the Russian Far East where it lives on Amurian Iilac (*Syringa reticulata*). In the 1980s, it was introduced into European Russia probably on Iilac planting material. It was first found in 1984 in a garden in Moscow, feeding mainly on Persian Iilac (*S. persica*) and occasionally on common Iilac (*S. vulgaris*). It continued to spread westwards in Europe and reached Belarus, Estonia, Finland, Latvia and Lithuania. In addition to an expanding geographical

range, a shift in the host range also took place in Europe where *I. oculatus* has been observed feeding on *Ligustrum vulgare* and *Fraxinus excelsior*. In Finland, *I. oculatus* was first observed in 2002 in Helsinki and then in other localities in the southern part of the country. In 2012, leaf damage caused by *I. oculatus* was detected for the first time in Latvia during a survey on pests of ornamental plants. The insect was found in the regions of Kurzeme, Vidzeme and Zemgale on *Fraxinus, Ligustrum* and *Syringa.* In 2013, the pest was also detected in the northeastern part of Lithuania on *Ligustrum vulgare* and *S. vulgaris.* On its host plants, nymphs and adults of *I. oculatus* feed on the leaf underside, causing leaf discoloration. In Finland, although substantial leaf discoloration has been observed on lilac this did not lead to significant impact on plant growth. In Latvia and Lithuania, severe leaf damage (drying and dying) affecting the ornamental value of the plants has been reported on some lilac species, and damage has also been observed on the foliage of young *F. excelsior* trees when population densities of *I. oculatus* in transmitting plant diseases (e.g. phytoplasma diseases).

Source: Gnezdilov VM (2014) *Igutettix oculatus* (Homoptera, Auchenorrhyncha, Cicadellidae) as invasive leafhopper species on lilac in parks of Saint Petersburg. *Plant Protection News* 2, 74-76 (abst.).

Maslyakov VY, Izhevsky SS (2011) [Alien phytophagous insect invasions in the European part of Russia]. IGRAS, Moscow, 272 pp (in Russian).

- Söderman G (2005) The eastern Palaearctic leafhopper *lgutettix oculatus* (Lindberg, 1929) in Finland: morphology, phenology and feeding (Insecta, Hemiptera, Cicadellidae, Typhlocybinae). *Beiträge zur Zikadenkunde* **8**, 1-4.
- Söderman G (2007) Taxonomy, distribution, biology and conservation status of Finnish Auchenorrhyncha (Hemiptera: Fulgoromorpha et Cicadomorpha). *The Finnish Environment*, 101 pp.
- Stalažs A (2013) The invasive lilac leafhopper, *Igutettix oculatus* (Lindberg, 1929), continues to spread in Europe: new host plant and new findings (Hemiptera: Cicadellidae, Typhlocybinae). *Cicadina* 13, 59-67.

Additional key words: new record

Computer codes: IGUTOC, BY, EE, FI, JP, LT, LV, RU

2016/099 Penthimiola bella: a new leafhopper found on citrus in Portugal

During a survey carried out in 2012 in 30 citrus orchards in the Algarve, Penthimiola bella (Hemiptera: Cicadellidae - citrus leafhopper) was detected for the first time in Portugal. The occurrence of reproducing populations of *P. bella* and its dispersion over a relatively large area of at least 70 km long within the Algarve suggests that it is established and was probably introduced several years ago. It was found mainly on sweet orange (Citrus sinensis). Circular yellow spots were observed on citrus fruits in the orchards where P. bella was detected, however no economic damage has been reported. P. bella is thought to originate from the Afrotropical region. It is a polyphagous sap feeder which can be found in mountain and rain forests, as well as in various trees and bushes in the savannah. It has also been reported on fruit crops, such as citrus (C. sinensis, C. paradisi), and avocado (Persea americana). In the Mediterranean Basin, P. bella was first detected in Israel in 1974 and more recently in Lebanon. It is hypothesized that the pest was introduced into Portugal via the international trade of citrus fruits (as trade of citrus plants for planting from outside the EU is prohibited). From the literature, the geographical distribution of *P. bella* is given as follows: EPPO region: Israel, Lebanon, Portugal.

Africa: Burkina Faso, Cameroon, Cape Verde, Central African Republic, Congo (Democratic Republic of), Côte d'Ivoire, Liberia, Madagascar; Nigeria, South Africa, Sudan, Uganda. South America: Argentina.

Source: Zina V, Borges da Silva E, Quartau JA, Franco JC (2013) First report of the citrus leafhopper *Penthimiola bella* (Stål) (Hemiptera, Cicadellidae) in Europe. *Phytoparasitica* 41(5), 521-527.

Additional key words: new record

Computer codes: PETHBE, PT

2016/100 *Ricania japonica:* a new polyphagous insect found in the EPPO region

In 2010, specimens of *Ricania japonica* (Hemiptera: Ricaniidae) were collected for the first time in Bulgaria along the Black Sea coast (estuary of the Veleka river). R. japonica is a polyphagous sap-feeding insect which can be found on trees, shrubs and weeds. It has also been recorded on crops, such as bean (Phaseolus vulgaris), cucumber (Cucumis sativus), fig (Ficus carica), grapevine (Vitis vinifera), Rubus sp., tea (Camelia sinensis), and tomato (Solanum lycopersicum), R. japonica is thought to originate from the Far East. According to the literature, it occurs in China (northern part), Japan (Honshu, Kyushu, Shikoku), and Korean peninsula. This species has been introduced in the Caucasus and is reported to occur in Georgia, Crimea and Krasnodar (Khosta near Sochi, Russia). In Turkey, the first specimens of *R. japonica* were collected in 2007 in Rize (Black Sea region). Other Turkish papers are referring to the detection of another species, Ricania simulans, in the provinces of Artvin and Rize (Black Sea region) on apple (Malus domestica), aubergine (Solanum melongena), citrus, fig, kiwifruit (Actinidia deliciosa), grapevine, maize (Zea mays), pear (Pyrus communis) and tea. In the eastern part of the Black Sea region, R. simulans is considered to be widespread and has become a serious pest of kiwifruit and tea. However, it is not entirely clear whether one or two new *Ricania* species have been introduced into Turkey. In some Internet sources, it is stated that records of *R. simulans* in Turkey are misidentifications of R. japonica. Finally, it can be recalled that another Asian species, R. speculum, has recently been detected in Italy (EPPO RS 2015/172).

Source:

Ak K, Güçlü Ş, Eken C, Sekban R (2015) [*Ricania simulans* (Walker, 1851) (Hemiptera: Ricaniidae) a new pest for Turkey]. *Turkish Journal of Entomology* 39(2), 179-186 (in Turkish).

- Demir E (2009) *Ricania* Germar, 1818 species of Western Palaearctic region (Hemiptera: Fulgoromorpha: Ricaniidae). *Munis Entomology and Zoology* 4(1), 271-275.
- Gjonov I (2011) *Ricania japonica* Melichar, 1898 a representative of family Ricaniidae (Homoptera, Fulgoromorpha), new to the fauna of Bulgaria. *ZooNotes* **23**, 1-3.
- Gjonov I, Shishiniova M (2014) Alien Auchenorrhyncha (Insecta, Hemiptera: Fulgoromorpha and Cicadomorpha) to Bulgaria. *Bulgarian Journal of Agricultural Science* 20, 151-156.
- Gnezdilov VM (1999) Addenda to the fauno of cicadina of Ciscaucasia and the West Caucasus (Homoptera). *Zoosystematica Rossica* 8, 73-75.
- Göktürk T, Aksu Y (2014) Morphology, biology and damage of *Ricania simulans* (Walker) 1851 (Hemiptera: Ricaniidae) which damages in the agriculture and forest areas. Proceedings of the 2nd Symposium of Turkey Forest Entomology and Pathology (Antalya, TR, 2014-04-07/09), 282-285.
- Güçlü Ş, Ak K, Eken C, Akyol H, Sekban R Beytut B, Yildirim R (2010) Pathogenicity of Lecanicillium muscarium against *Ricania simulans*. *Bulletin of Insectology* **63**(2), 243-246.

INTERNET

Ricania japonica. <u>http://biriz.biz/cay/ricaniajaponicabayramgocmen.pdf</u> Öztemiz S, Doğanlar M (2015) Invasive plant pests (Insecta and Acarina) of Turkey. *Munis Entomology and Zoology* 10(1), 144-159.

Additional key words: new record

Computer codes: RICASI, RICAJA, BG, TR

2016/101 First report of *Trachymela sloanei* in Spain

Native to Southeastern Australia, *Trachymela sloanei* (Coleoptera: Chrysomelidae - Australian tortoise beetle) has been introduced into New Zealand and California (US), and more recently into Southern Spain. *T. sloanei* feeds on numerous species of eucalyptus, with a preference for *Eucalyptus camaldulensis*. Both adults and larvae are voracious leaf feeders but the consequences on tree growth and the economic impact remain to be clarified. In New Zealand, *T. sloanei* was first detected in 1976 in Auckland and is now found throughout most of the North Island and in some parts of the South Island (Marlborough Sounds, Marlborough and Mid Canterbury). In California, it was discovered in 1998 in Riverside county and is now widespread in Southern California. In Spain, the first specimens of *T. sloanei* were collected in 2014 in Jerez de la Frontera (province of Cádiz, Andalucía) under the bark of a large eucalyptus tree. In 2015, further specimens were collected in other localities of the province of Cádiz on *E. camaldulensis*. This is the first time that *T. sloanei* is reported from the EPPO region.

Source: Bain J (2009) New records. Forest Health News no. 194. <u>https://www.scionresearch.com/__data/assets/pdf_file/0009/3897/fhnewsNo194</u> <u>-April09.pdf</u>

INTERNET

- Farm Forestry New Zealand. *Trachymela sloanei*. <u>http://www.nzffa.org.nz/farm-forestry-model/the-essentials/forest-health-pests-and-diseases/Pests/trachymela-sloanei/</u>
- Forest and timber insects in New Zealand no. 10. Eucalyptus tortoise beetle. <u>https://www.scionresearch.com/__data/assets/pdf_file/0006/3939/Ent10Paropsi</u> <u>scharybdis.pdf</u>
- Riley EG, Clark CM, Gilbert AJ (2001) New records, nomenclatural changes, and taxonomic notes for select North American leaf beetles (Coleoptera: Chrysomelidae). Insecta Mundi. Paper 176. http://digitalcommons.unl.edu/insectamundi/176
- Sánchez I, Amarillo JM, Molina D (2015) [First records of Trachymela sloanei (Blackburn, 1897) (Coleoptera, Chrysomelidae) in Europe]. Revista gaditana de Entomología VI(1), 127-130.

Additional key words: new record

Computer codes: TCMLSL, ES

2016/102 Acidovorax citrulli no longer occurs in Serbia

In 2014, *Acidovorax citrulli* (EPPO A1 List) was detected in Serbia in a watermelon (*Citrullus lanatus*) crop in Vojvodina province (EPPO RS 2015/077). The NPPO of Serbia further explained that in 2014 *A. citrulli* was detected in 2 production sites (Sremski and Juzno-backi, both in Vojvodina province). The watermelon crops were destroyed and measures concerning waste disposal, used equipment, and land use were taken to eradicate the disease. As no other findings have been made since 2014, the NPPO considers that the bacterium is no longer present in Serbia. The NPPO will continue to monitor imports of watermelon and melon seeds.

The pest status of *Acidovorax citrulli* in Serbia is officially declared as: Absent, no longer present.

Source: NPPO of Serbia (2016-05).

Pictures: Acidovorax citrulli. https://gd.eppo.int/taxon/PSDMAC/photos

Additional key words: absence

Computer codes: PSDMAC, RS

2016/103 First report of *Phytophthora kernoviae* in Chile

Surveys for the presence of *Phytophthora* species in forest trees were conducted in May and December 2012 in Southern Chile. Fallen leaves of *Drimys winteri* (Winteraceae) showing necrosis around the midrib were observed in a native evergreen forest near the city of Valdivia, Región de Los Ríos. Symptomatic leaves from the litter or still attached to the plants were collected and tested in the laboratory for the presence of *Phytophthora* spp. The presence of *Phytophthora kernoviae* (EPPO A2 List) was confirmed (morphology, sequencing, pathogenicity tests) in fallen leaves of *D. winteri* collected from the surface litter. This is the first time that *P. kernoviae* is reported from Chile.

The situation of *Phytophthora kernoviae* in Chile can be described as follows: Present, first detected in 2012 in fallen leaves of *Drimys winteri* in a native forest (Valdivia, Los Ríos region).

Source: Sanfuentes E, Fajardo S, Sabag M, Hansen E, González M (2016) *Phytophthora kernoviae* isolated from fallen leaves of *Drymis winteri* in native forest of southern Chile. *Australasian Plant Disease Notes* **11**, 19. DOI 10.1007/s13314-016-0205-6

Pictures: Phytophthora kernoviae. <u>https://qd.eppo.int/taxon/PHYTKE/photos</u>

Additional key words: new record

Computer codes: PHYTKE, CL

2016/104 First report of Beet necrotic yellow vein virus in South Africa

During the 2014 and 2015 production seasons, hairy roots, root stunting symptoms, and yellowing of leaves, were observed on red table beet (*Beta vulgaris* cv. 'Red Ace') in commercial fields of one farm located in Bonnievale (Western Cape province), South Africa. Root samples were collected from symptomatic plants and tested in the laboratory (electron microscopy, RT-PCR, sequencing). Results confirmed the presence of *Beet necrotic yellow vein virus* (BNYVV, EPPO A2 List - rhizomania) in diseased roots and resting spores of the fungus-like vector, *Polymyxa betae*, were observed in root epidermal cells. In

addition, seeds of four cultivars of red table beet were planted in bags with soil collected from the contamined fields, and both *P. betae* and BNYVV could be found in resulting plant roots. It is stressed that surveys should be carried out in beet-growing regions of South Africa and that measures should be taken to prevent the spread of BNYVV.

The situation of *Beet necrotic yellow vein virus* in South Africa can be described as follows: Present, first detected in 2014-2015 in red table beet in one farm (Western Cape province).

Source: Roberts R, Botha WJ, Wolfaardt JP, Jooste AEC (2016) First report of *Beet necrotic yellow vein virus* (BNYVV) on red table beet in South Africa. *Plant Disease* 100(5), p 1025.

Pictures: Beet necrotic yellow vein virus. <u>https://gd.eppo.int/taxon/BNYVV0/photos</u>

Additional key words: new record

Computer codes: BNYVV0, ZA

2016/105 The current situation of Solanum elaeagnifolium in the Mediterranean Basin

Solanum elaeagnifolium (Solanaceae: EPPO A2 List) is native to Southern USA and Northern Mexico and is a highly invasive alien species in the Mediterranean region. Over the last 60 years, S. elaeagnifolium has spread from an initial few accidental introductions to monospecific stands particularly in Greece and Morocco. The species has negative impacts on crops (causing up to 75 % yield losses) as well as harbouring plant pests and diseases. The species is also toxic to livestock. A key criterion to reducing the impacts of this species is the implementation of integrated national and regional management practices aimed at prevention and control. Cultural methods can be effective at controlling *S. elaeagnifolium*, and such methods include deep ploughing and frequent cutting during the flowering stage. Herbicide treatment can be effective and glyphosate is the most commonly used herbicide in Morocco; however, its efficacy is variable. Biological control could be an option for the species in the region in the future and researchers in South Africa have released two leaffeeding beetles, Leptinotarsa texana and Leptinotarsa defecta in 1992. L. texana has proved very effective, inflicting significant damage to the plant. In conclusion, the management of S. elaeagnifolium requires coordination, education and support across the affected countries.

Source: Uludag A, Gbehounou G, Kashefi J, Bouhache M, Bon M, Bell C, Lagopodi AL (2016) Review of the current situation for *Solanum eleagnifolium* in the Mediterranean Basin. *EPPO Bulletin* 46, 139-147.

Pictures: Solanum elaeagnifolium. <u>https://gd.eppo.int/taxon/SOLEL/photos</u>

Additional key words: invasive alien plants

Computer codes: SOLEL

2016/106 Pre-adaption or genetic shift in the invasive alien plant Impatiens glandulifera

Impatiens glandulifera (Balsaminaceae: EPPO List of Invasive Alien Plants) is a highly invasive annual species within the EPPO region. The species originates from the Western Himalayas where it is found at altitudes between 2400 and 4400 m above sea level. Similar to other invasive alien plants, I. glandulifera has a high fecundity, rapid growth rates and displays a high phenotypic plasticity in the invaded range. It was unclear, however, if these characteristics are present in native populations (pre-adaptation hypothesis) or if they evolve following the introduction of the species (genetic shift hypothesis). To test these two hypotheses, seeds of *I. glandulifera* were collected from their invasive range (Norway) and the native range (India) and grown under greenhouse conditions. Plant growth parameters were measured and included plant height and aboveground biomass. Reproductive units were measured including the number of flowers, seeds per capsule and seed biomass. There was no evidence that seeds from invasive populations grew more vigorously or produced more seed compared to native populations, suggesting that I. glandulifera seems to be pre-adapted for invasion. The main factor for the invasive nature of the species could be attributed to differences in the native/introduced habitats where higher nutrient availability in the latter facilitate the invasion of *I. glandulifera*.

Source: Elst EM, Acharya KP, Dar PA, Reshi ZA, Tufto J, Nijs I, Graae BJ (2016) Pre-adaption or genetic shift after introduction in the invasive species *Impatiens glandulifera*. *Acta Oecologica* **70**, 60-66.

Pictures: Impatiens glandilufera. <u>https://gd.eppo.int/taxon/IPAGL/photos</u>

Additional key words: invasive alien plants

Computer codes: IPAGL, IN, NO

2016/107 LIFE project: Mitigating the threat of invasive alien plants in the EU through pest risk analysis to support the EU Regulation 1143/2014

When faced with a large species pool of invasive or potentially invasive alien plants, prioritization is an essential prerequisite to focus limited resources on species which inflict high impacts, have a high rate of spread and can be cost effectively managed. During a workshop held at the EPPO Headquarters in March 2016, 37 invasive alien plant species, selected from the EPPO List of Invasive Alien Plants and a recent horizon scanning study, were prioritised for risk assessment using a modified version of the EPPO Prioritization Process, specially designed to be fully compliant with the Regulation (EU) No. 1143/2014. As a result, the following 16 species were selected and will be risk assessed under the EU funded LIFE project:

Ambrosia confertiflora (Asteraceae)

Ambrosia confertiflora (EPPO List of Invasive Alien Plants) is a perennial herb native to Northern Mexico and the south-west of the United States. One of its English common names is burr ragweed. This species has been introduced to Australia and Israel. *A. confertiflora* has severe agricultural and environmental impacts, and its pollen is a severe allergen to humans. This species has a limited distribution in the EPPO region and can be considered an emerging invader.

EPPO Global Database: <u>https://gd.eppo.int/taxon/FRSCO</u>

Andropogon virginicus (Poaceae)

Andropogon virginicus is a perennial grass native to North and Central America. One of its English common names is broomsedge. This species has been introduced into other continents; for example it has naturalized in Australia, New Zealand, and Japan. Prior to 2006, the only report from the EPPO region was in Russia. In 2006, it was first found in France in a military camp ('Camp du Poteau' – located partly in Gironde and Landes departments). The population of *A. virginicus* in France has multiplied significantly in the infested area (from 2 to 500 plants in two years) and as the species is considered to be invasive in other parts of the world, *A. virginicus* can be considered as an emerging invader in the EPPO region.

EPPO Global Database: <u>https://gd.eppo.int/taxon/ANOVI</u>

Cardiospermum grandiflorum (Sapindales)

Cardiospermum grandiflorum (EPPO List of Invasive Alien Plants) is a climbing vine originating from tropical Africa and Central and South America. It is used as an ornamental plant. It only reproduces by seeds, which are spread by wind and water. The plant smothers other plants in riparian habitats and forests, and is considered invasive in South Africa and Australia. In the EPPO region, it is recorded in Sicilia (IT), the Islas Canarias (ES) and Madeira (PT).

EPPO Global Database: <u>https://gd.eppo.int/taxon/CRIGR</u>

Cinnamomum camphora (Lauraceae)

Cinnamomum camphora (common name: Camphor laurel) is a tall tree species originating from East Asia. The species reproduces by seed which are often spread by birds and water. *C. camphora* is naturalised in Australia, Southern USA, Southern Europe and East Africa.

Where the species invades, it forms a dense canopy competing with and displacing native plant species. Although *C. camphora* has a limited occurrence in the wild in the EPPO region, the species is widely planted as an ornamental. Due to its impacts in other regions of the world, evaluating the potential risks for this species is warranted. EPPO Global Database: https://gd.eppo.int/taxon/CINCA

Cortaderia jubata (Poaceae)

Cortaderia jubata is a tall species of grass commonly known as pampas grass. Native to South America, *C. jubata* has been planted as an ornamental species and for forage shelter and erosion control in a number of countries throughout the world. *C. jubata* is naturalised in Australia, New Zealand, South Africa and the USA where it is regarded as an invasive species. At present *C. jubata* is not present in the wild within the EPPO region but due to its impacts elsewhere an evaluation of the potential risks to native biodiversity from this species is warranted.

EPPO Global Database: <u>https://gd.eppo.int/taxon/CDTJU</u>

Ehrharta calycina (Poaceae)

Native to South Africa, *Ehrharta calycina* is a species of grass which often becomes a weedy species in regions where it has been introduced. It is regarded as an invasive species in California (USA) where it invades native shrub communities displacing native species and altering the structure of the ecosystem. In Australia, the species invades woodlands. Within the EPPO region, *E. calycina* has been introduced into Portugal and Spain. EPPO Global Database: <u>https://gd.eppo.int/taxon/EHRCA</u>

Gymnocoronis spilanthoides (Asteraceae)

Gymnocoronis spilanthoides (EPPO List of Invasive Alien Plants) (common name Senegal tea) is a semi-aquatic emergent perennial plant native to South America. The species is used in the aquarium trade. Within the EPPO region it is not recorded as naturalized. Because this plant has shown invasive behaviour where it has been introduced elsewhere in the world, it can be considered a potential future invader in Europe. EPPO Global Database: https://gd.eppo.int/taxon/GYNSP

Hakea sericea (Proteaceae)

Hakea sericea (EPPO List of Invasive Alien Plants) is a shrub originating from Australia. It has been voluntarily introduced for ornamental purposes, particularly to form protective hedges. The common name for *H. sericea* is silky hakea, referring to silky hair on the tip growth. In South Africa, *H. sericea* is highly invasive, outcompeting native plant species by forming dense monocultures. Within the EPPO region, the species is recorded in the South of France and in Spain, and is considered invasive in Portugal. Because its distribution is still very limited, this plant can be considered a new emerging invader in Europe. EPPO Global Database: https://gd.eppo.int/taxon/HKASE

Humulus japonicus (Cannabaceae)

Humulus japonicus (EPPO List of Invasive Alien Plants) is an annual climber vine originating from East Asia. Its common name in English is 'Japanese hop'. In Europe, it is only recorded in France, Hungary and Italy where it has shown invasive behaviour in wetlands. Because its distribution is still limited, this species can be considered a new emerging invader.

EPPO Global Database: <u>https://gd.eppo.int/taxon/HUMJA</u>

Hygrophila polysperma (Acanthoideae)

Hygrophila polysperma (EPPO List of Invasive Alien Plants) (common name: Indian swamp weed) is an aquatic perennial plant native to Asia. The species is traded as an aquarium

plant. Within the EPPO region, it is not recorded as naturalized. Considering the invasive behaviour of this species elsewhere in the world, it is considered that flowing freshwater bodies of the Mediterranean and temperate countries are at risk, and that the species should be monitored, particularly in countries currently importing this species as an aquarium plant.

EPPO Global Database: <u>https://gd.eppo.int/taxon/HYGPO</u>

Lespedeza cuneata (Faboideae)

Lespedeza cuneata is an erect semi-woody forb which can reach 2 m in height. Native to Asia and Australia, *L. cuneata* invades grasslands and open forest communities often forming dense monocultures which compete with native species for light and nutrients. Currently *L. cuneata* is absent from the wild within the EPPO region but the impacts of the species in other regions of the world, and the fact that the species is available as an horticultural plant within the EPPO region, warrant an evaluation of the risks the species may pose to the region.

EPPO Global Database: <u>https://gd.eppo.int/taxon/LESCU</u>

Lygodium japonicum (Lygodiaceae)

Lygodium japonicum (commonly known as Japanese climbing fern) is a species of climbing fern native to East Asia. The species has been introduced into North America, where it has had a significant negative impact in commercial pine plantations. *L. japonicum* can have negative impacts on native plant species by reducing light penetration levels from the canopy. The species is currently absent from the wild within the EPPO region but an evaluation of its potential impacts is warranted especially as the plant is traded. EPPO Global Database: https://gd.eppo.int/taxon/LYFJA

Prosopis juliflora (Mimosoideae)

Prosopis juliflora is a highly invasive thorny tree/shrub in some regions of the world where it has been introduced. Native to the Americas and introduced into Asia, Africa and Australia, *P. juliflora* can form thick impenetrable monocultures which degrade agricultural land and outcompete native biodiversity. As the species produces thick thorns which can pierce vehicle tyres and injure humans, *P. juliflora* has significant social impacts. Although the species is not currently present in the wild within the EPPO region, areas of the Mediterranean may be conducive to its establishment. A risk assessment for the EPPO region will gather all available information on the species and evaluate if the species can establish and spread under current and future climatic conditions. EPPO Global Database: https://gd.eppo.int/taxon/PRCJU

Sapium sebiferum (Euphorbiaceae)

Sapium sebiferum (commonly known as Chinese tallow tree) is a fast growing small tree species which produces a prolific amount of seeds which are dispersed by water, birds and man. Native to East Asia, *S. sebiferum* is currently reported as invasive in Australia, North America and Africa (South Africa, Sudan, Uganda and Zambia). Currently, the species is absent from the wild within the EPPO region, though the potential for its establishment is considered high.

EPPO Global Database: <u>https://gd.eppo.int/taxon/SAQSE</u>

Pistia stratiotes (Aroideae)

Pistia stratiotes (EPPO List of Invasive Alien Plants) is an aquatic plant originating from South America. It is extensively traded for ornamental and aquarium purposes. The plant is thought to spread via aquarium waste or escapees from ornamental ponds. It is an invasive plant often found in the tropics and subtropics. Its common name is water lettuce in English and laitue d'eau in French. In the EPPO region, it is considered invasive in Canary Islands (Spain).

EPPO Global Database: https://gd.eppo.int/taxon/PIIST

Salvinia molesta (Salviniaceae)

Salvinia molesta (EPPO List of Invasive Alien Plants) is a floating aquatic fern originating from South America. Its common name is giant salvinia. The plant is traded as an aquatic ornamental plant, as well as an aquarium plant. It is thought that most infestations have arisen from discarded aquarium material. Within the EPPO region, it has recently been recorded in 2 localities in Italy (in 2000 in a canal (Fosso del-Acqua calda) near Pisa, and in 2003 in the Pozzo del Merro lake near Rome), as well as in Portugal and Corsica. Because this plant has shown invasive behaviour where it has been introduced elsewhere in the world, and is still of very limited distribution in the EPPO region, it can be considered a new emerging invader in Europe.

EPPO Global Database: <u>https://gd.eppo.int/taxon/SAVMO</u>

Source: EPPO Secretariat (2016-05) Project website: <u>http://www.iap-risk.eu</u>

Additional key words: invasive alien plants

Computer codes: ANOVI, CDTJU, CINCA, CRIGR, EHRCA, FRSCO, GYNSP, HKASE, HYGPO, HUMJA, LESCU, LYFJA, PIIST, PRCJU, SAQSE, SAVMO