



По-добро обучение за по-безопасна Храна *Инициатива*

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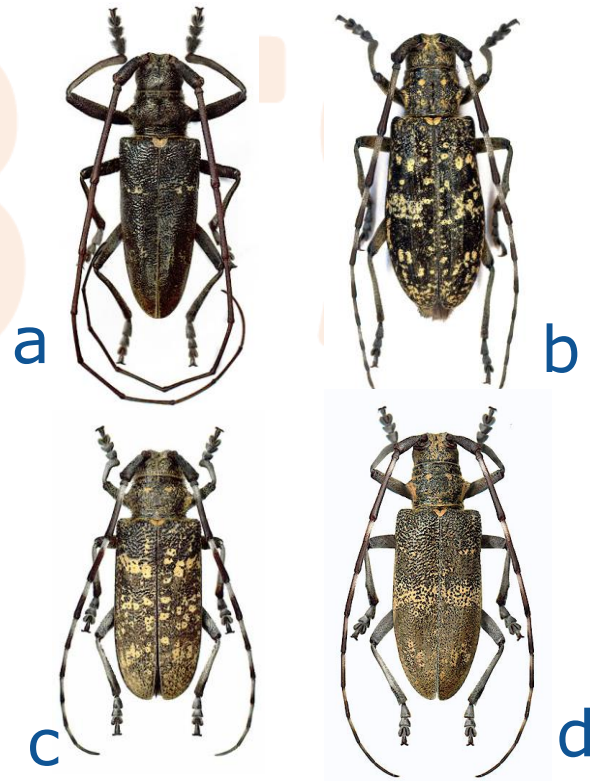
*Изследвания и наблюдения
на здравето на растенията*

Monochatus
spp. (карантинни
вредители по горски
видове)

Мюнхен, Германия – 23-26 Октомври 2017

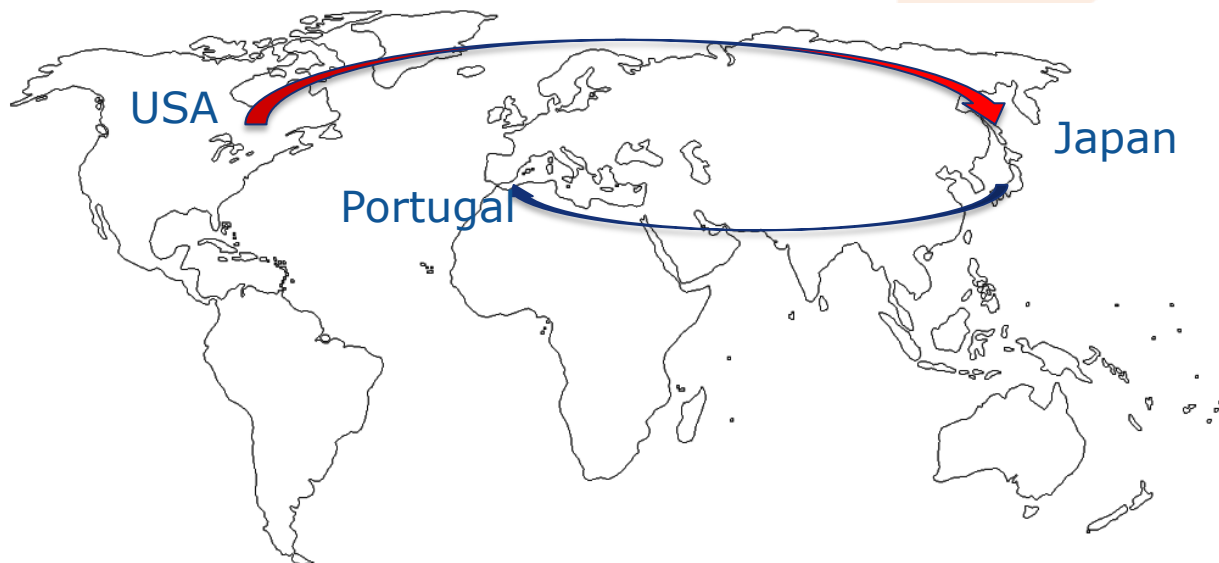
Monochamus spp.

- 163 вида по целия свят
- Северна Америка, Азия, Африка и Европа
- 4 основни вида в Европа:
 - a) *M. saltuarius* (*Picea*)
 - b) *M. sartor* (*Picea*)
 - c) *M. sutor* (*Picea*, *Pinus*)
 - d) *M. galloprovincialis* (*Pinus*)

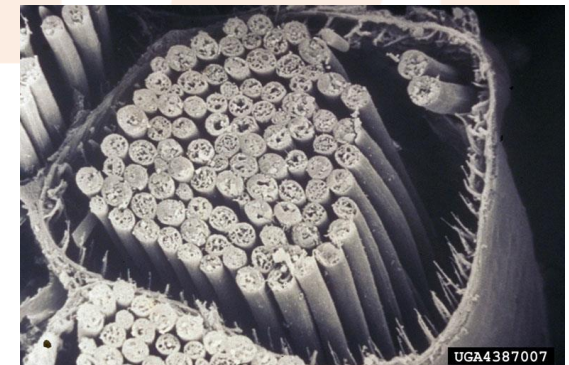


Борова нематода (*Bursaphelenchus xylophilus*)

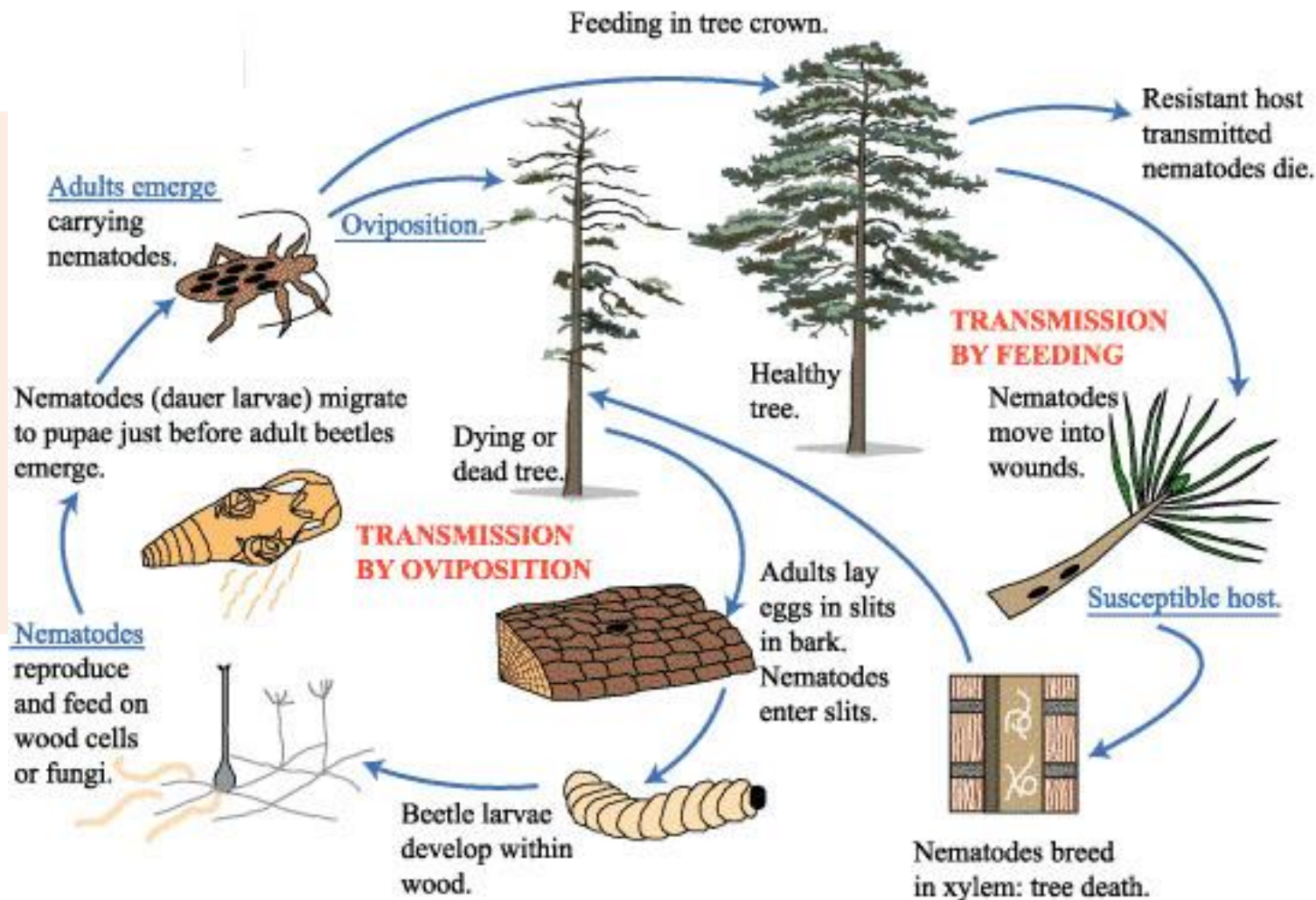
Присъща за САЩ, но въведена и в Япония,
Китай, Корея и Португалия (1999)



Вектор -
Monochamus spp



PWN предаване



Основни вектори

САЩ



*Monochamus
carolinensis*

Япония



*Monochamus
alternatus*

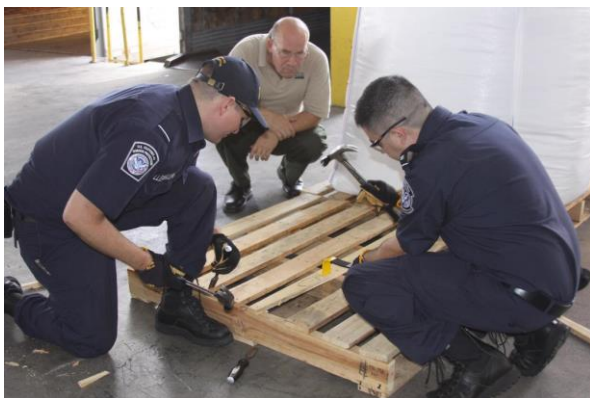
Европа



*Monochamus
galloprovincialis*

Начини за пренасяне

Дървени трупи и дървен материал, внесени от Северна Америка, Азия или Португалия



Търсете по стърготини и останки от насекоми

Стратегия на наблюденията



Как?
Многофункционални капани, снабдени със специфични инструменти

"Healthy crops in our hands"

SEDQ
Sociedad Española de Desarrollo Químico S.L.

GALLOPROTECT 2D
Use in monitoring of *Monochamus galloprovincialis*

Manufacturer and provider: SEDQ

Sociedad Española de Desarrollo Químico S.L. (SEDQ)
María Cuñe, 33
06210 Barberá del Valles (Barcelona)
Spain
Tel. +34937190471
Fax + 34937194790
comercial@sedq.es

FERAG MG D TM

General characteristics

The pine sawyer, *Monochamus galloprovincialis* (Coleoptera: Cerambycidae), is a secondary insect that colonizes newly dead or dying pine trees all over Europe. It has also been found in the Caucasus, Siberia, Mongolia, China and North Africa. All pine tree species are susceptible of being settled by this species but also the genera *Abies*, *Pinus* and *Larix*.

The importance of *M. galloprovincialis* is based on the transmission of *Bursaphelenchus xylophilus*, a lethal pathogen responsible of pine trees wilt disease.

MSDS – Monochamol

Synergy Semiochemicals Corporation



IDENTITY (As Used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Monochamol

Section I

Manufacturer's Name
Synergy Semiochemicals Corporation

Emergency Telephone Number
CANUTEC @ 1-(613)-996-6666

Telephone Number for Information
1-(604)-454-1122

Date Prepared
2016-08-22

Signature of Preparer (optional)

Address

7061 Merritt Avenue
Burnaby, British Columbia,
Canada
V5J4R7

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
2-undecyloxy-1-ethanol CAS 171903-95-0	N/A	N/A	N/A	N/A

Къде?

В най-рисковите места (например пристанища, борови гори и др.)

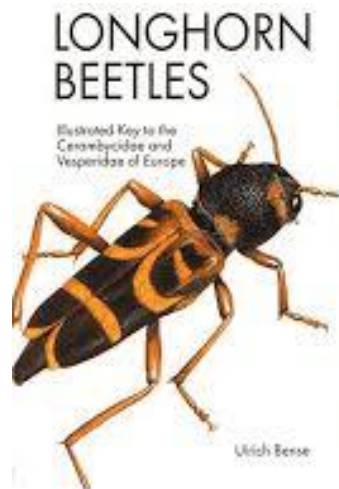


Food safety



Идентификация

- Морфология(книги или списания)



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A review of the European species of *Monochamus* Dejean, 1821 (Coleoptera, Cerambycidae) – with a description of the genitalia characters

HENRIK WALLIN, MARTIN SCHROEDER & TORSTEIN KVAMME

- Генетика



Съхранявайте насекомите в етанол!!!



Благодаря за вниманието!!

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