

ANOPLOPHORA CHINENSIS FOUND IN SARAJEVO



Mariangela Ciampitti

Sarajevo, 7-8 December, 2016

Content

- Anoplophora ID
- Range of host plants
- Pathway
- Scenario of a possible crisis situation



Females ~ 3,13 cm Males ~ 2,74 cm Adult with long antennae, black and white spotted



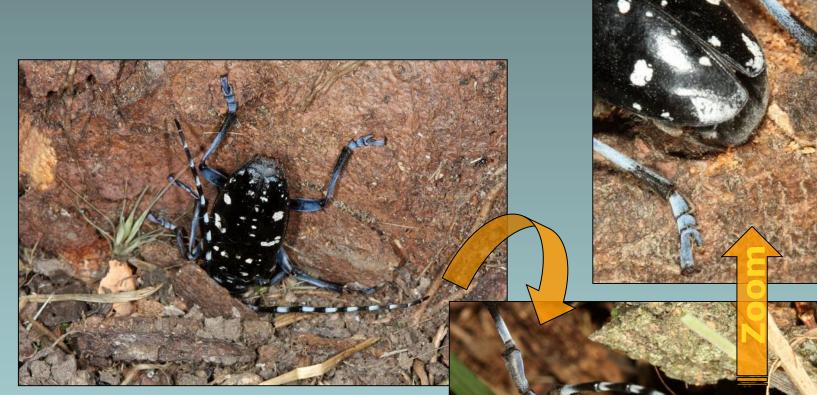
... as soon as they emerge, they go up into the crown, feeding the bark of young twigs...





... then... they mate and females start in laying eggs...





With the mandibles, female make an incision in the bark to insert in it one single egg...



The egg is very similar to a rice seed... and it is layed in the bark inside a T shape incision...





Pupal chamber, full of chewed tree debris





Exuvium

Larvae are 45 – 55 mm in length



.. emerging from the tree through a perfect, round shape, exit hole...





Looking for... ... sign and symptoms...









Following the adult's feeding, on the crown is it possible to see dead twigs...







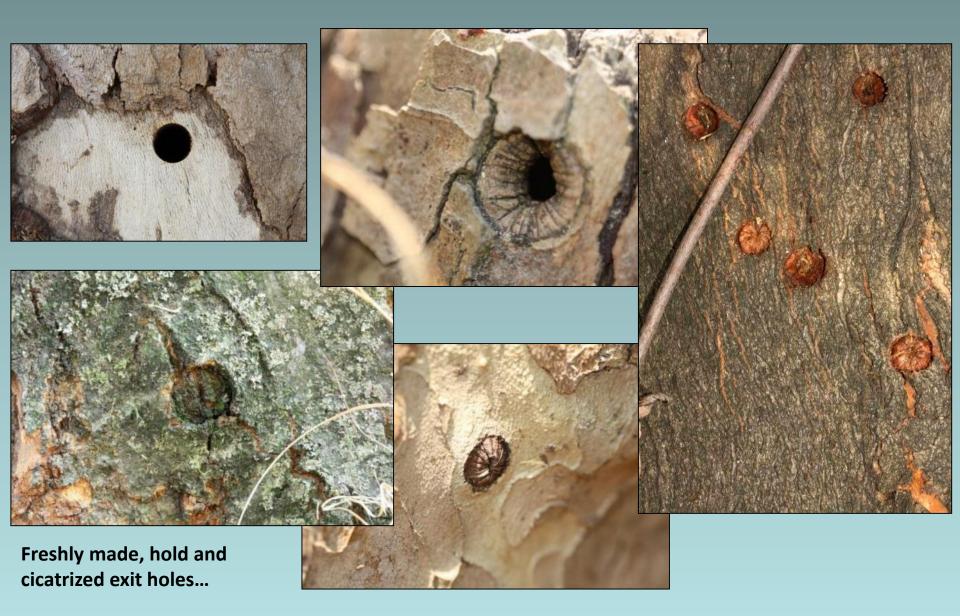
An overview of different kind of oviposition scars...

The amount of extruded frass varies depending on the host plant species, larval instar and environmental conditions...

Frass (excrements)



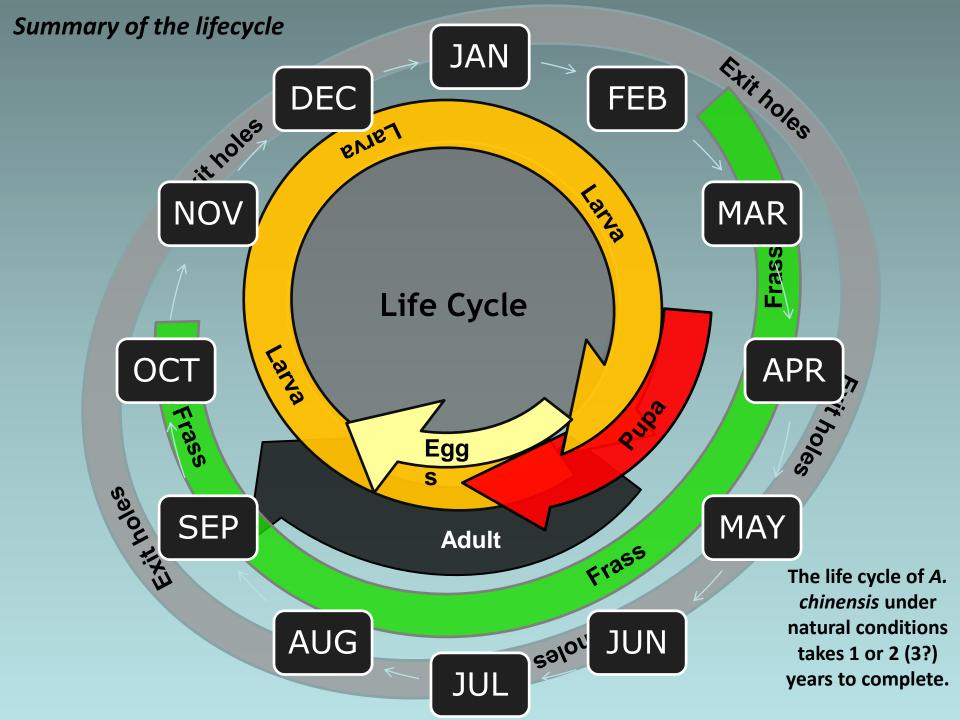
Frass is not systematically found on infested trees; frass is not a fully reliable symptom which may be lacking even if trees are infested with larvae. Furthermore, it may be located on ground level and could be easily washed off during irrigation or removed by gardeners.











Range of host plants

- The main host plants are Acer (maple and sycomores), Betula (birch), Ulmus (elm), Fagus (beech), Corylus avellana (hazel), Rosa (rose), Prunus laurocerasus
- •but the list of host plants is very long (see EPPO Standard PM 9/16)





Pathway



TOYOTA

Anoplophora can spread through active fly for a short distance



Possible scenario

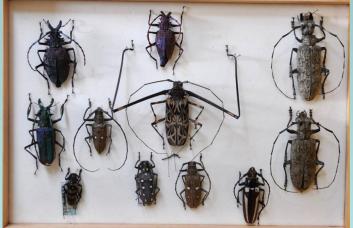


• On 12 February a student at Mostar during an examination shows an entomological box with a collection of insects.

• The teacher notices the presence of a beetle that he identifies as Anoplophora chinensis.

• The student says that the insect was collected in a boulevard in Sarajevo during the visit to some relatives took place in the previous July.

• The professor alerts the Plant Protection Service.



The task for you:

To identify measures to be taken by plant health services in order to:

- Identify possible source of infestation
- Prohibit further potential spread of quarantine insect
- Eradicate the outbreak
- Involve local authorities and stakeholders

GOOD LUCK !!! ③

