



European Union
Reference Laboratory
for Honeybee Health



Detection of *Aethina tumida* in Calabria

Mission from the 16th ^x to the 18th September 2014

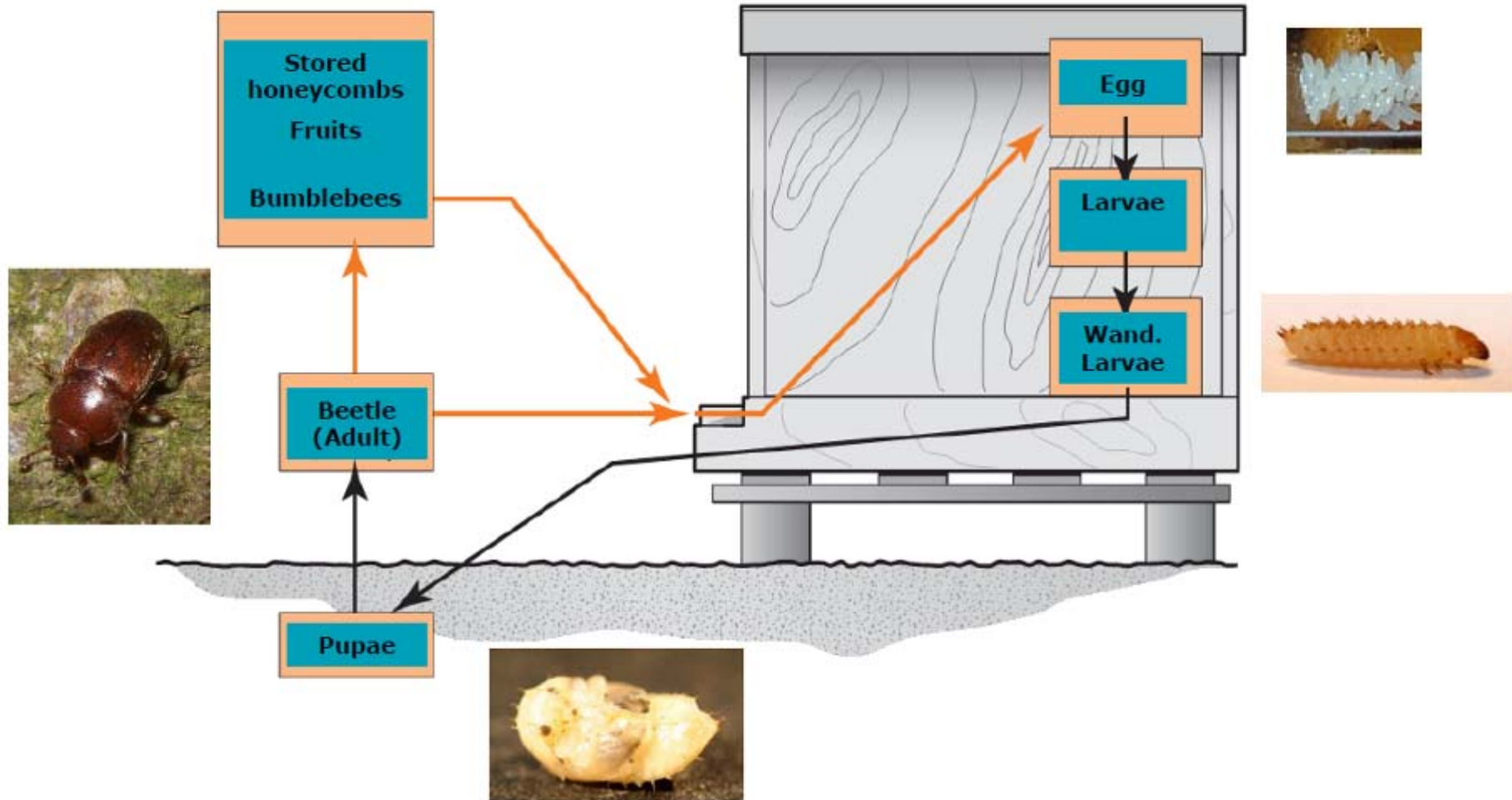
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World
Organisation
for Animal
Health



Life cycle of *A. tumida*



Chronology of events

5th September 2014 : 3 infested nuclei (Prof Palméri)

11th September 2014 : Italian LNR received the information

12th September 2014 : morphological confirmation by the Italian NRL.

15th September 2014 : morphological confirmation by the LRUE.

16th September 2014 : beginning of the field mission

17th September 2014 : molecular confirmation by the LR UE

Upon arrival on the 16th October : meeting with local veterinarians

Surveillance to be implemented

- *Visits of apiaries*
- *Visits of colonies*
- *Prevalence*
- *Delay*



Apiary visits



Use of traps



Traps were provided by the EU Reference Laboratory for honeybee health

Less expensive solutions were investigated



Visit at the site of the first detection



Pesticides were used to control *Unaspis yanonensis* Kuwana.

Nuclei were installed to monitor pesticide effects on honeybee colonies.

Visit at the site of the first detection



Pupae were searched
by digging in the soil

Soil was treated



Visit at the site of the first detection



Two new nuclei were installed as baits



The international large harbor



7.5 km long
Transit port
2.5 millions container/year
No swarm reported



Second outbreak found on the 17th September 2014

700 m from the harbor

3 km from the initial detection in the nuclei

41 colonies



A. tumida detected in four colonies



18th September 2014

The whole apiary was inspected (41 colonies)

Only *A. tumida* adults were detected

12 colonies with *A. tumida*

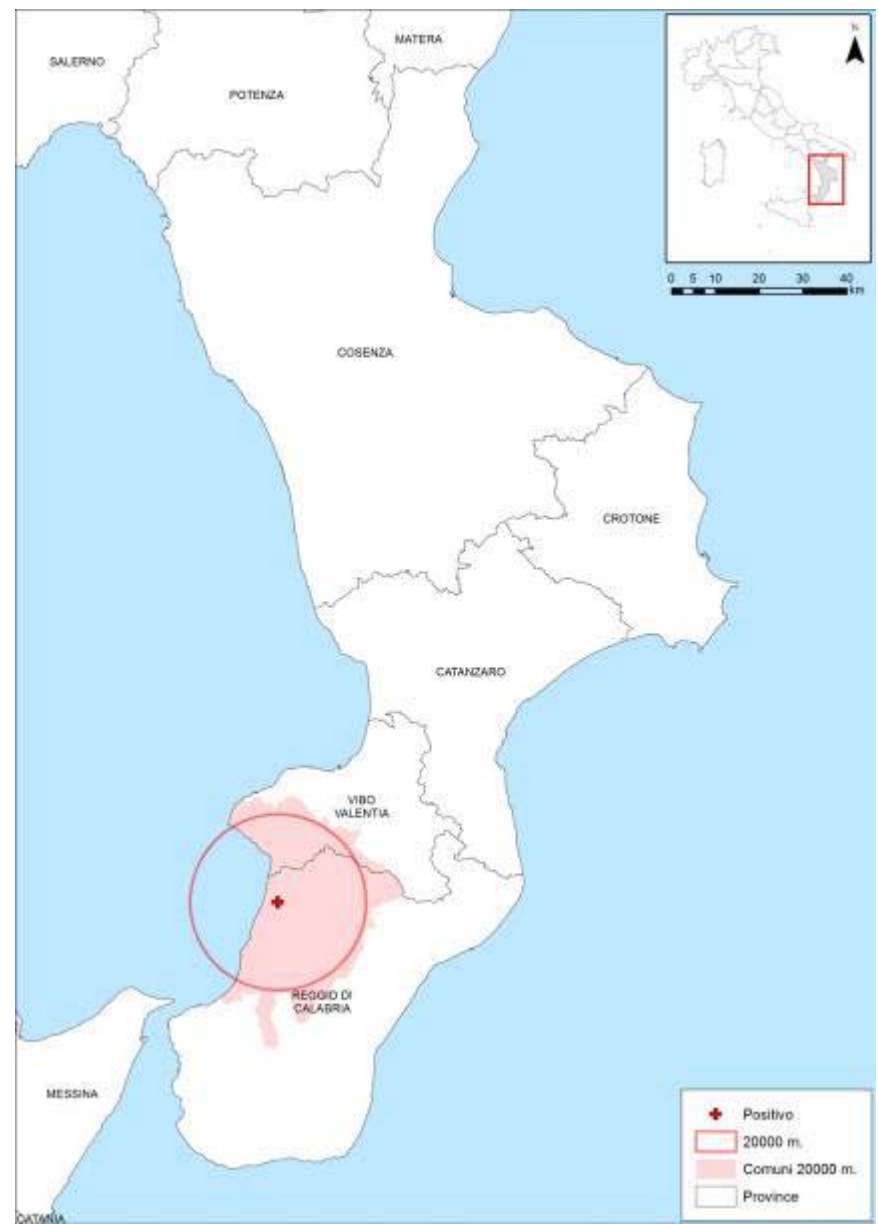
18 adults collected

Traps installed

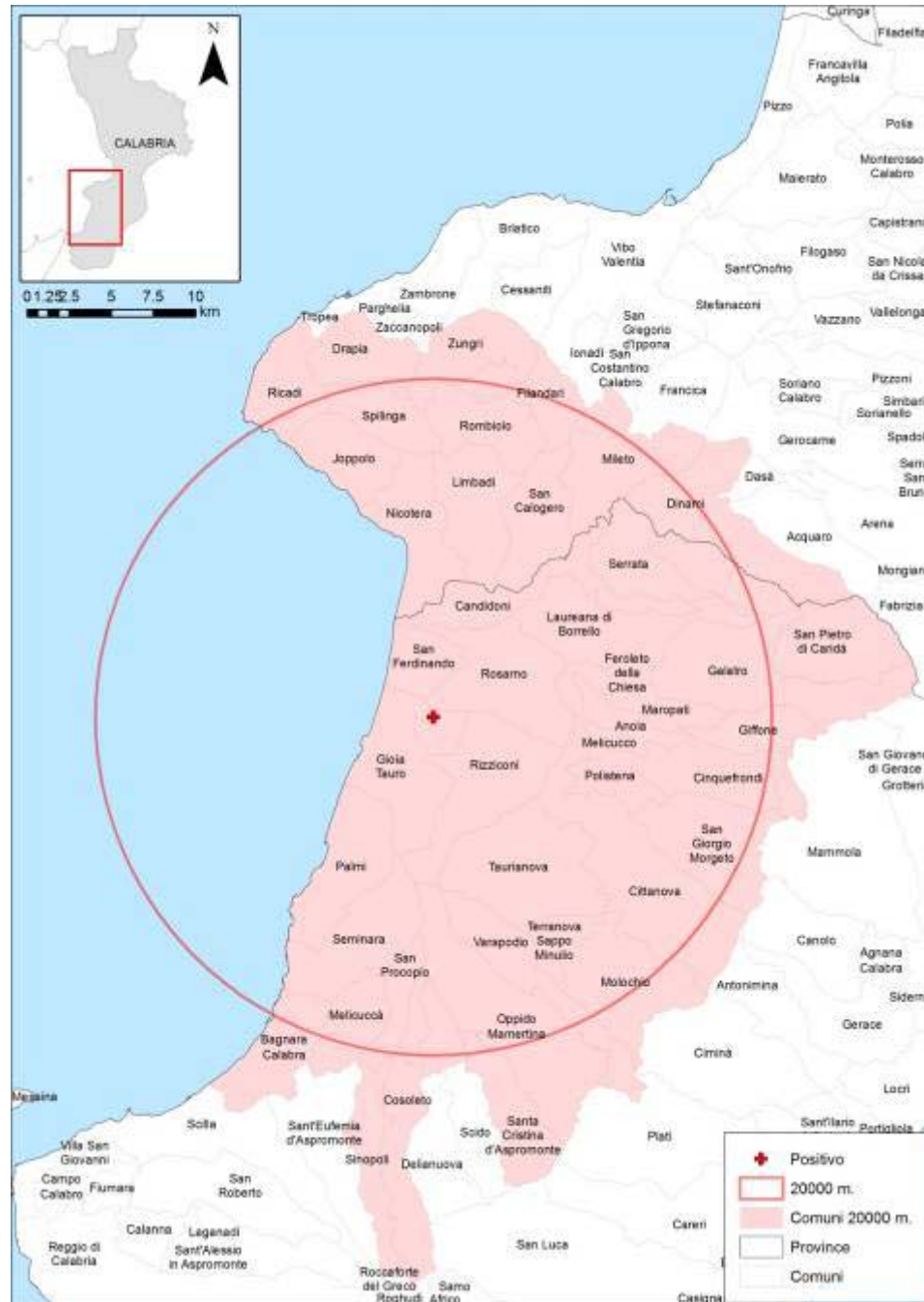
No brood destruction observed



5th September 2014



5th September 2014



17th September 2014

+ 4 negative apiaries



Information available at

Italian National Reference Laboratory for honeybee health website

[http://www.izsvenezie.it/index.php?option=com_content
&view=article&id=1729&Itemid=373](http://www.izsvenezie.it/index.php?option=com_content&view=article&id=1729&Itemid=373)

EU Reference Laboratory for honeybee health website

[https://sites.anses.fr/en/minisite/abeilles/eurl-bee-
health-home](https://sites.anses.fr/en/minisite/abeilles/eurl-bee-health-home)

Thank you for your attention

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