

Aethina tumida in Italy: Update on epidemiological situation and response measures

Franco Mutinelli

NRL for beekeeping

STANDING COMMITTEE ON PLANTS, ANIMALS, FOOD AND FEED Animal Health and Welfare

Brussels, 18 September 2017

Epidemiological situation – September 2017



NATIONAL REFERENCE LABORATORY FOR BEEKEEPING

AETHINA TUMIDA CONFIRMED CASES

EPIDEMIOLOGICAL SITUATION AS OF SEPTEMBER 05, 2017

N.	LOCALITY	MUNICIPALITY	PROVINCE	REGION	EGGS	LARVAE	PUPAE	ADULTS	Note	CONFIRMATION DATE
01 2017	C.DA TRODIO	PALMI	RC	CALABRIA				30		Mach 24, 2017
02 2017		LAUREANA DI BORRELLO	RC	CALABRIA		Several		11	Natural colony	April 03, 2017
03_2017	C.DA MELE	SIDERNO	RC	CALABRIA		6		9		April 03, 2017
04_2017	C.DA COLTURE	STIGNANO	RC	CALABRIA				2		April 18, 2017
05_2017	VIA STRETTO	SCILLA	RC	CALABRIA				1	Natural colony	May 25, 2017



NATIONAL REFERENCE LABORATORY FOR BEEKEEPING

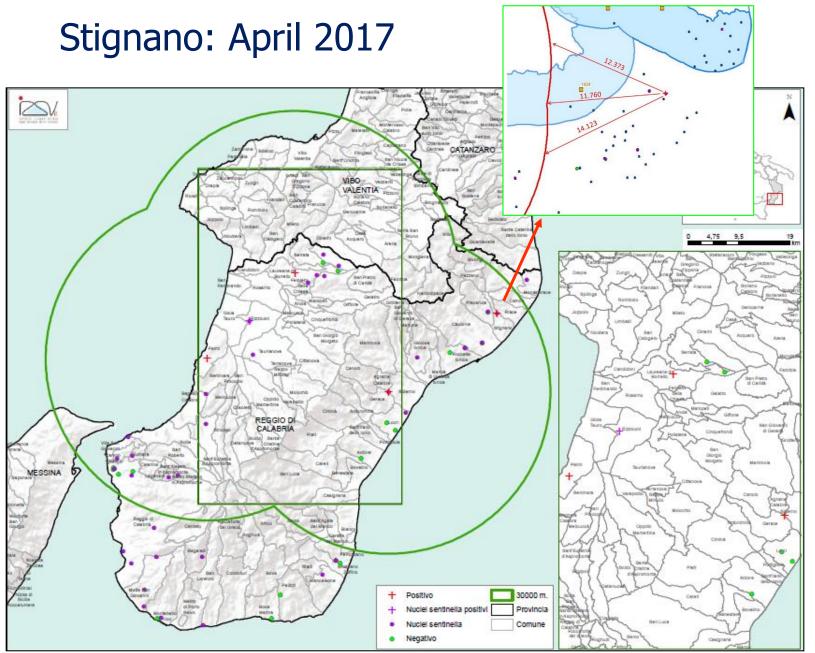
AETHINA TUMIDA - "SENTINEL HONEY BEE NUCLEI"

ORDER OF THE MINISTRY OF HEALTH 0002413-01/02/2016-DGSAF-COD_UO-P, 0003095-08/02/2016-DGSAF-COD_UO-P

EPIDEMIOLOGICAL SITUATION AS OF 05 SEPTEMBER 2017

N.	SENTINEL HONEY BEE NUCLEI (*)	LOCALITY	MUNICIPALITY	PROVINCE	REGION	EGGS	LARVAE	PUPAE	ADULTS	Note	DATE
01 2017	N. 8	DROSI	RIZZICONI	RC	CALABRIA				22		April 03 2017
02_2017	N. 31	C.DA COLTURE	STIGNANO	RC	CALABRIA				1		June 14, 2017
03_2017	N. 17	C.DA FIUMARA ALTA	VILLA SAN GIOVANNI	RC	CALABRIA				2		June 29, 2017
04_2017	N. 6	C.DA CAMPO	SAN PIETRO IN CARIDA'	RC	CALABRIA				2		July 31, 2017
05_2017	N. 25 BIS		MAROPATI	RC	CALABRIA				3		August 02, 2017





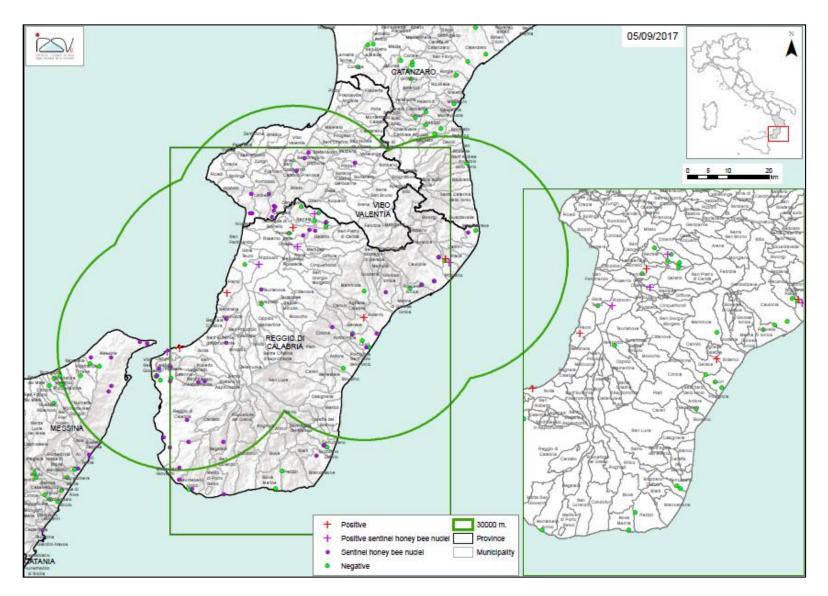


Questions posed by the new findings

- 1) The apiaries in Siderno and Stignano are on the Ionian Sea side of Calabria region, this means that SHB crossed the mountains
- 2) No further SHB detection in that part of Calabria so far
- 3) The apiary in Stignano (outside the previous 20 km radius protection zone) belongs to a beekeeper who owned 2 other apiaries in the previous protection zone
- 4) No at risk movements of apiaries was detected

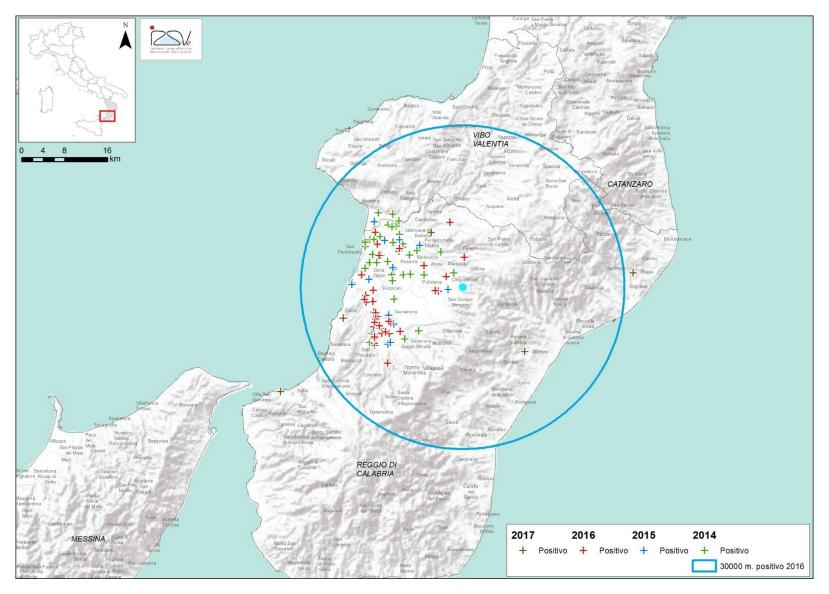


Epidemiological situation: September 2017





Epidemiological situation: September 2017





Measures adopted in Sicily region following Villa S. Giovanni's infested sentinel nucs

REPUBBLICA ITALIANA

Regione Siciliana

ASSESSORATO DELLA SALUTE

Dipartimento Regionale per le Attività Sanitarie e Osservatorio Epidemiologico Servizio 10 "Sanità Veterinaria"

Prot./Servizio 10/n 58299

Palermo, 13-7-2017

OGGETTO: Misure straordinarie da adottare a seguito di rinvenimento di Aethina tumida in un nucleo sentinella posizionato presso il Comune di Villa San Giovanni (RC).



REGIONE SICILIANA AZIENDA SANITARIA PROVINCIALE

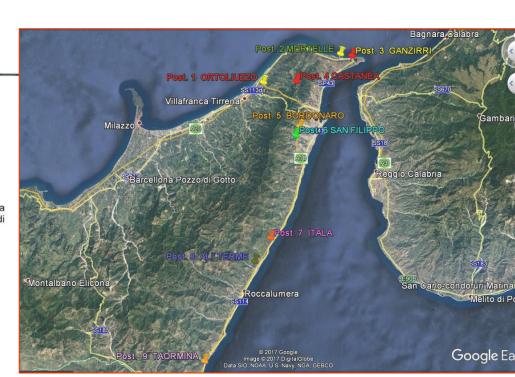
CATANIA

Dipartimento di Prevenzione Veterinaria **UOC Servizio Sanità Animale** antonino.salina@aspct.it sanitaanimale@pec.aspct.it Prot. n. 86083

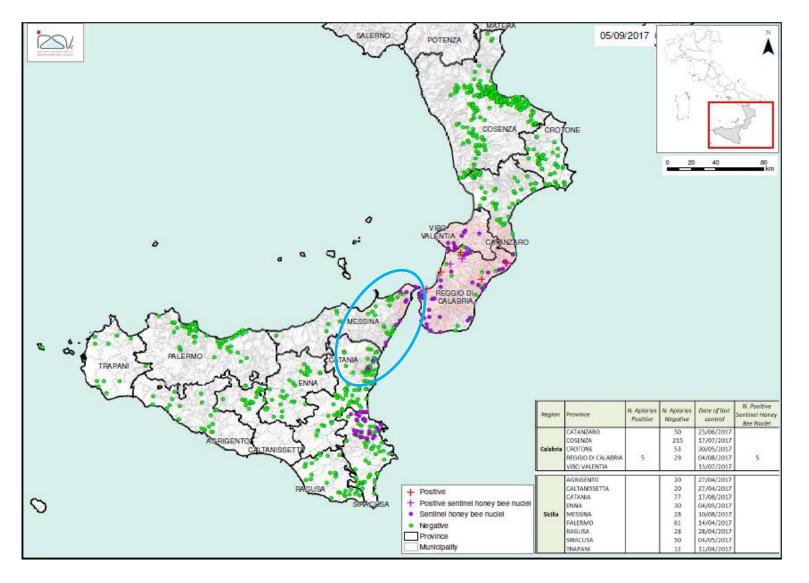
Gravina di Catania, li 24/07 Allegati n. 01 mappa

OGGETTO: Misure straordinarie seguito rinvenimento di Aethina Tumida in nucleo sentinella sito nel comune di Villa San Giovanni (RC). Posizionamento nuclei sentinella nella provincia di Messina.





Sentinel honey bee nucleus colonies in Sicily region facing Calabria coast





Strait of Messina

At its narrowest point, between Torre Faro and Villa San Giovanni, is 3.1 km (1.9 mi) wide

The strait then widens southward to 8, 10 and 20 km

There is no scientific evidence of the distance that SHB can fly (supposed 10-13 km)

SHB carriage by the wind (also supposed but not demonstrated)

The winds of the strait blow mainly southerly (from south to north)



Surveillance activity in Sicily region carried out according to the National program



REGIONE SICILIANA AZIENDA SANITARIA PROVINCIALE

CATANIA

Dipartimento di Prevenzione Veterinaria UOC Sanità Animale Direttore dr. Antonino Salina antonino.salina@aspct.it sanitaanimale@pec.aspct.it

antonino.salina@aspct.it
sanitaanimale@pec.aspct.it

Prot. n. 959
Classe Fasc. Allegati n. 03 file excel

OGGETTO: attività di sorveglianza 2017 per Aethina Tumida - trasmissione dati visite apiari nella ASP di Catania e nuclei sentinella siti nelle provincie di Catania e Messina al 22/8/2017.

0

17/07/201 30/05/201 04/08/201

04/05/201

14/04/201

CALTANISSETTA

ALERMO

Positive sentinel honey bee nuc

Sentinel honey bee nucle

Province



Comments as of September 2017

The spreads within Calabria occurred:

- ✓ across natural barriers (mountains), 2 apiaries, Ionian coast
- epidemiological investigation did not clarify how they happened
- ✓ protection zone of 30 km
- sentinel nuclei were effective in detecting SHB spreading
- ✓ Central and Local (Sicily) Authorities immediately reacted to the new findings in Calabria (July 2017) with new sentinels in place
- ✓ intensive active surveillance still in progress in Sicily region.



Thank you for your attention

