



Ministero della Salute

Direzione generale della sanità animale e dei farmaci veterinari

Small hive beetle in Italy

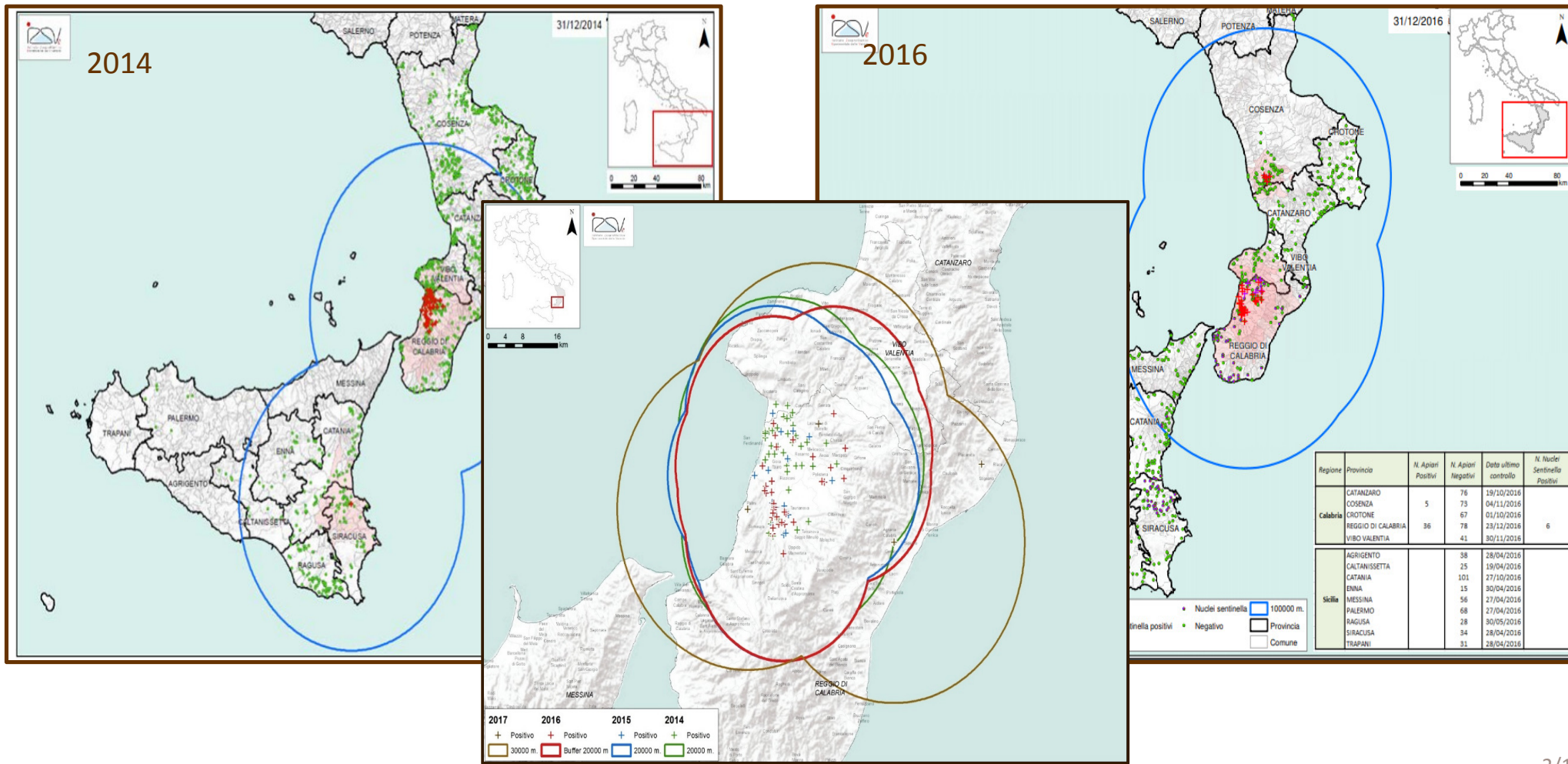
Epidemiological situation and surveillance 2018

PAFF Committee – Animal health and Welfare

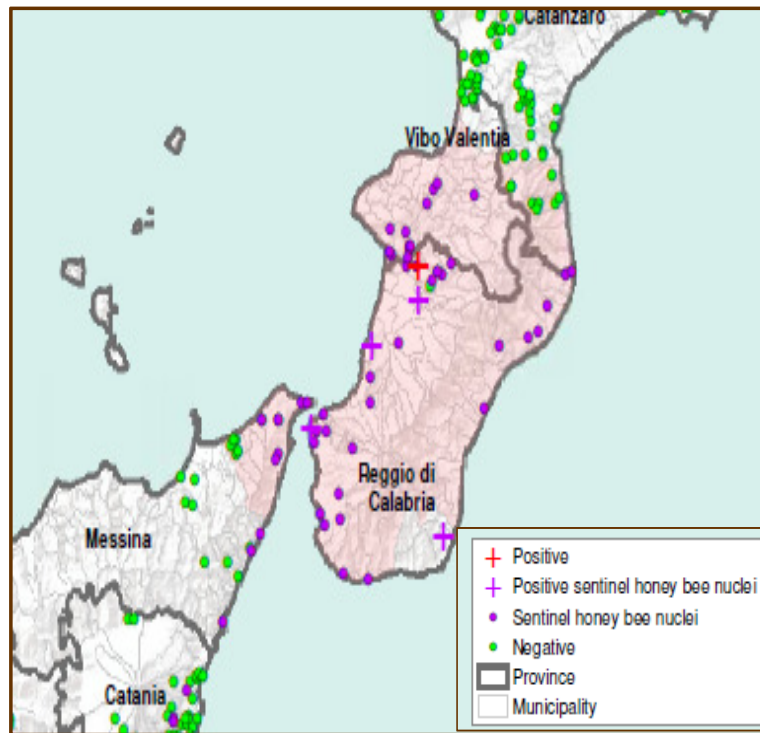
25/26 February 2019



Small hive beetle in Italy from 2014 to 2017



Small hive beetle in Italy: outbreaks reported in 2018



Natural colonies →

N.	LOCALITY	MUNICIPALITY	PROVINCE	REGION	EGGS	LARVAE	PUPAE	ADULTS	NOTE	CONFIRMATION DATE
01_2018	C.DA BARBASANO	LAUREANA DI BORRELLO	RC	CALABRIA		4		13	Natural colony	August 02, 2018

N.	SENTINEL HONEY BEE NUCLEI (*)	LOCALITY	MUNICIPALITY	PROVINCE	REGION	EGGS	LARVAE	PUPAE	ADULTS	Note	DATE
01_2018	N. 61	C/O SCUOLA AGRARIA	PALMI	RC	CALABRIA		1		3		August 01, 2018
02_2018	N. 33	STRADA PROVINCIALE	BRANCALEONE	RC	CALABRIA				3		August 07, 2018
03_2018	N. 63	C.DA CAMPIZZI	ROSARNO	RC	CALABRIA		19		27		September 04, 2018
04_2018	N. 64	VIA SOLFERINO - ZONA PORTO	VILLA SAN GIOVANNI	RC	CALABRIA		161		9		November 12, 2018

← Sentinel nucleus

Restriction zones and movements control



From Calabria:
total ban of movements of bees and bumble bees (hives, queen bees, package bees, bee for pollination)

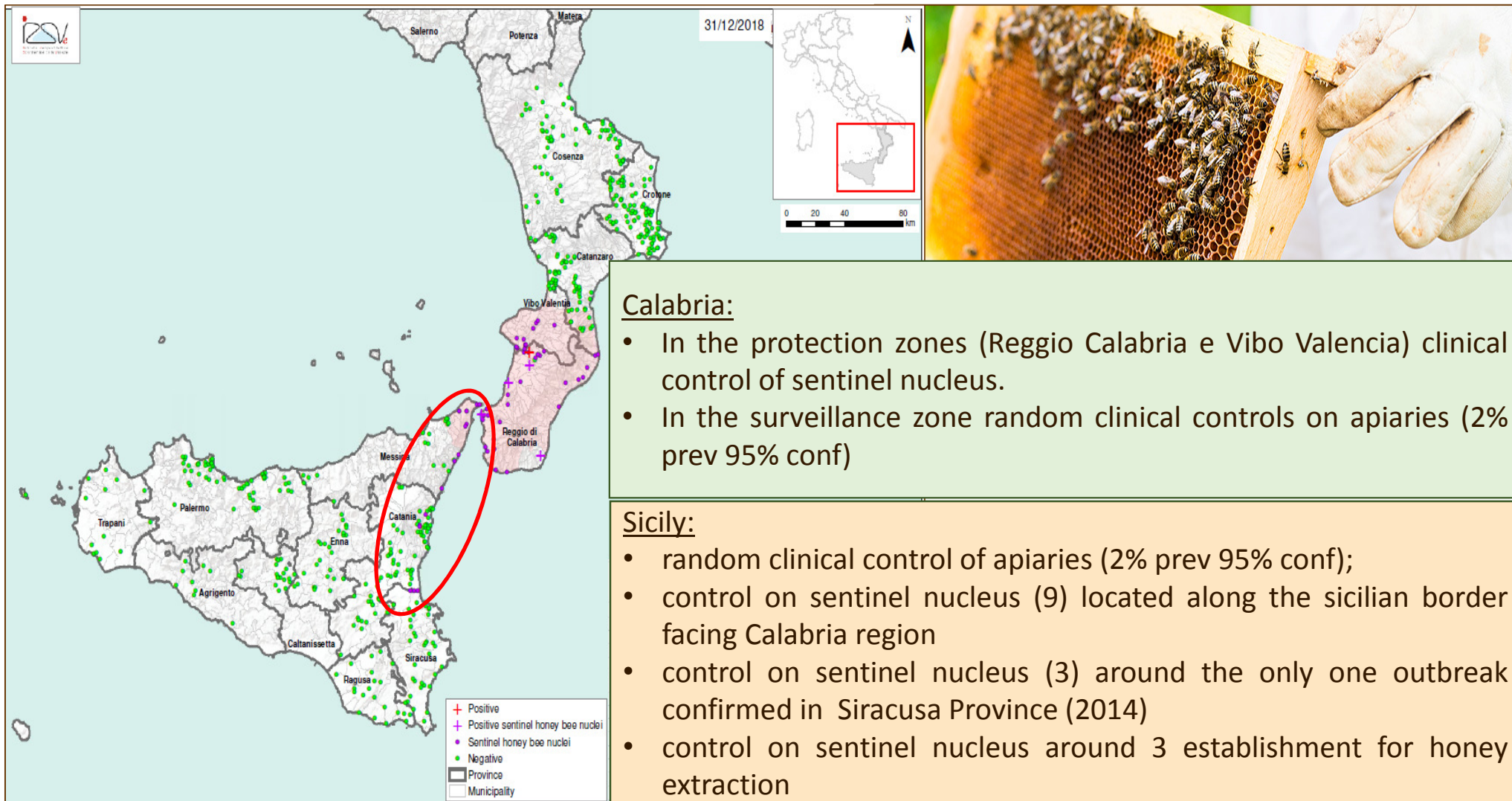
Surveillance zone:
the remaining part of the Calabrian territory

Protection zone:

- Reggio Calabria Province
- Vibo Valentia Province
- Cosenza: 10km around outbreak



Surveillance: Calabria and Sicily



Calabria:

- In the protection zones (Reggio Calabria e Vibo Valencia) clinical control of sentinel nucleus.
- In the surveillance zone random clinical controls on apiaries (2% prev 95% conf)

Sicily:

- random clinical control of apiaries (2% prev 95% conf);
- control on sentinel nucleus (9) located along the sicilian border facing Calabria region
- control on sentinel nucleus (3) around the only one outbreak confirmed in Siracusa Province (2014)
- control on sentinel nucleus around 3 establishment for honey extraction

Surveillance: Calabria and Sicily (2018)

<i>Region</i>	<i>Province</i>	<i>N. positive apiaries</i>	<i>N. negative apiaries</i>	<i>N. positive sentinel nucleus</i>	<i>N. negative sentinel nuclei</i>
Calabria	CATANZARO		68/53		
	COSENZA		71/76		
	CROTONE		104/35		
	REGGIO CALABRIA	1*	1	4	27
	VIBO VALENTIA		0		12
Sicily	AGRIGENTO		9/19		
	CALTANISSETTA		20/20		
	CATANIA		81/84		6
	ENNA		28/29		
	MESSINA		21/30		9
	PALERMO		59/53		
	RAGUSA		21/29		
	SIRACUSA		34/51		
	TRAPANI		14/13		

* Natural colony

Surveillance: rest of Italy

randomly selected



Selected on risk-based



Three areas are identified on the national territory:

- North Area: Autonomous Provinces of Trento and Bolzano, Valle d'Aosta, Friuli Venezia Giulia, Veneto, Lombardy, Piedmont, Liguria and Emilia Romagna ;
- Center Area: Tuscany, Marche, Lazio, Abruzzo and Molise;
- South Area: Campania, Basilicata, Puglia and Sardinia.

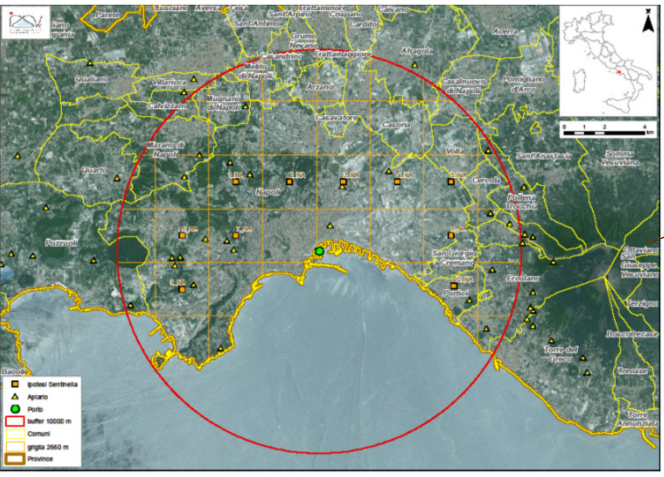
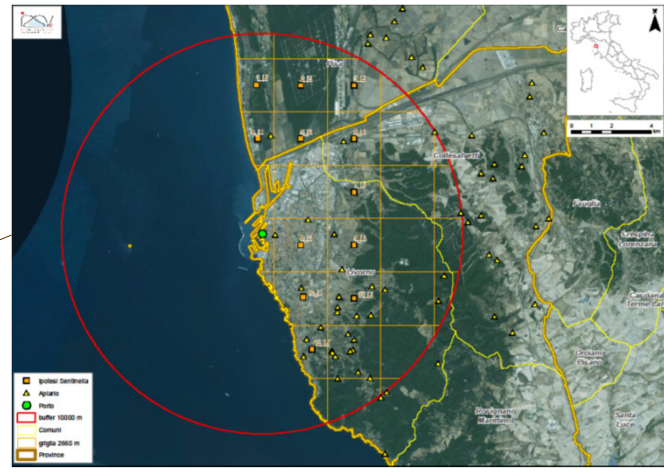
In each area apiaries are clinically controlled twice a year (prev 2% conf 95%)

Surveillance: rest of Italy (2018)

MACRO REGION	N. APIARIES TO BE CHECKED	N. CONTROLLED APIARIES	N. INSPECTED BEEHIVES
NORTH	178	186*	2.750
EMILIA ROMAGNA	26	27	440
LIGURIA	10	16	322
LOMBARDIA	31	31	426
P.A. TRENTO	10	10	97
PIEMONTE	44	63	838
VALLE D'AOSTA	10	10	61
VENETO	27	29	566
CENTRE	167	45*	755
ABRUZZO	16	26	463
MOLISE	10	19	292
SOUTH	165	52*	818
SARDEGNA	61	52	818
TOTAL	510	283*	4.323

* Data collection not yet completed

Surveillance: rest of Italy (ports)





Thank you for your attention



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