

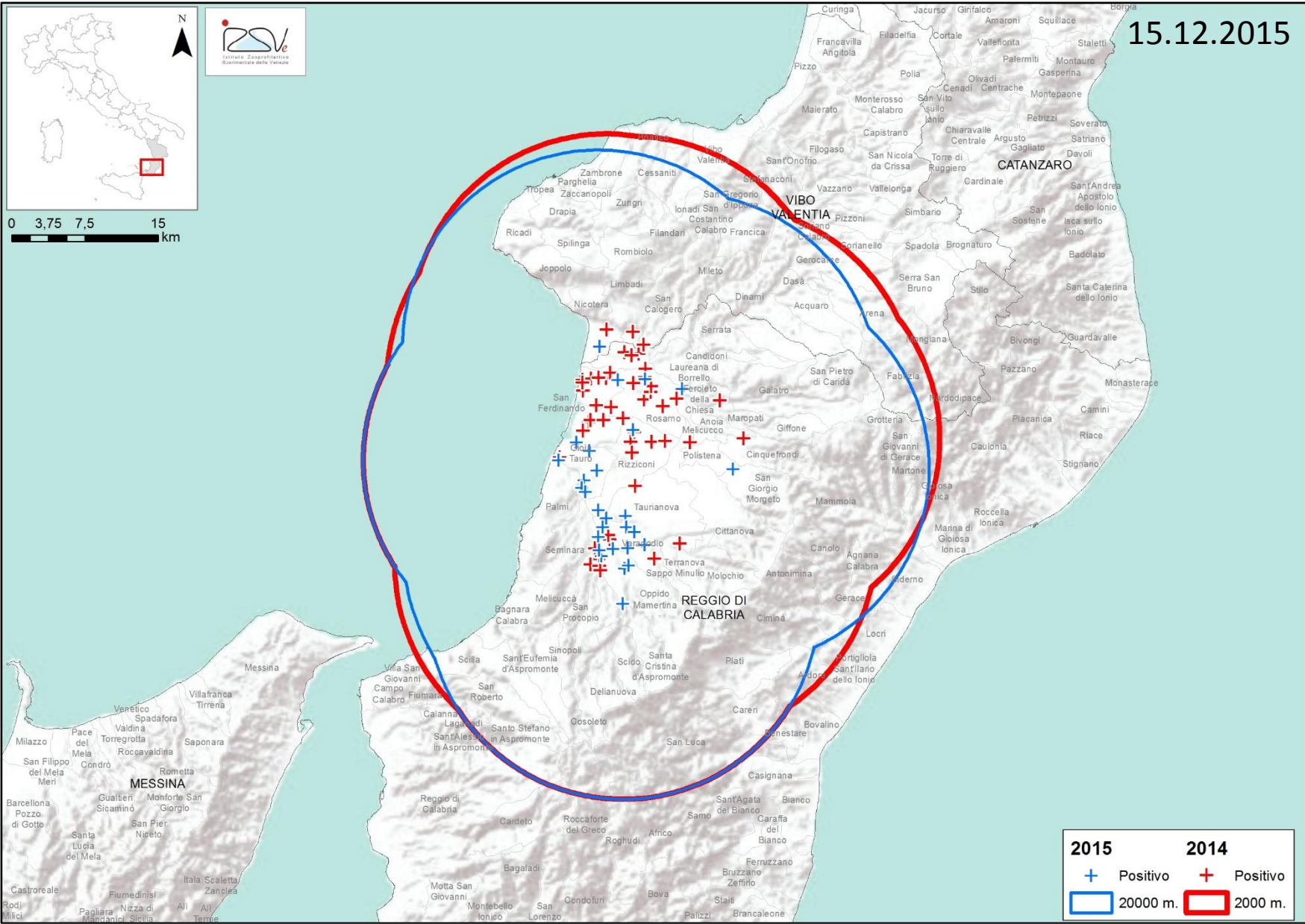
Small hive beetle in Italy: update, surveillance and the recent incident

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PAFF Steering Committee, Brussels 13 September 2016

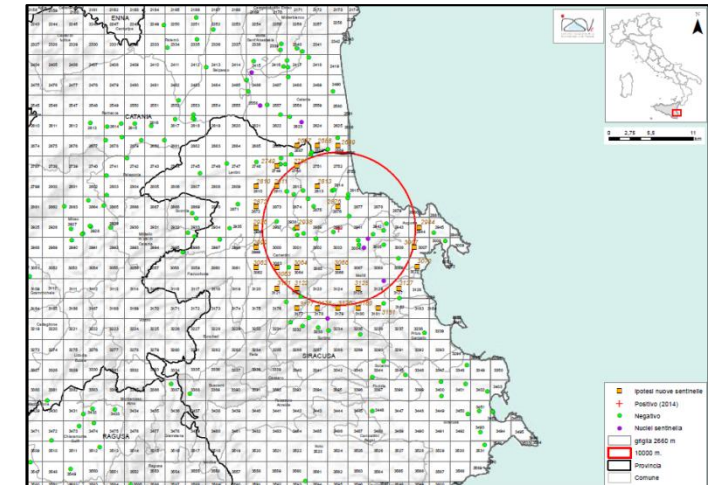
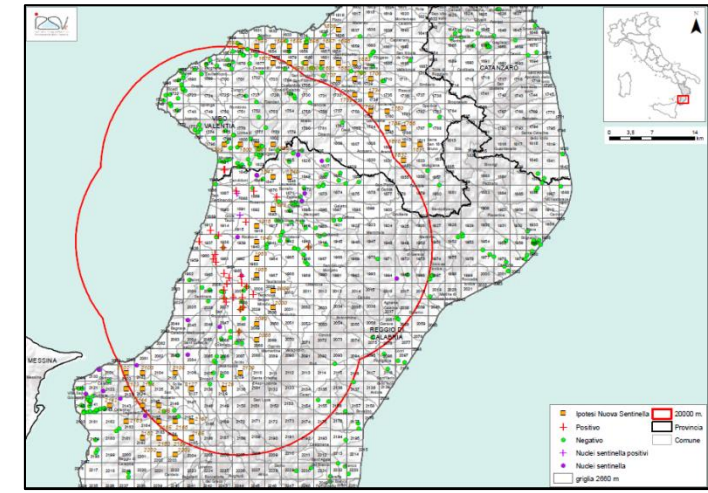
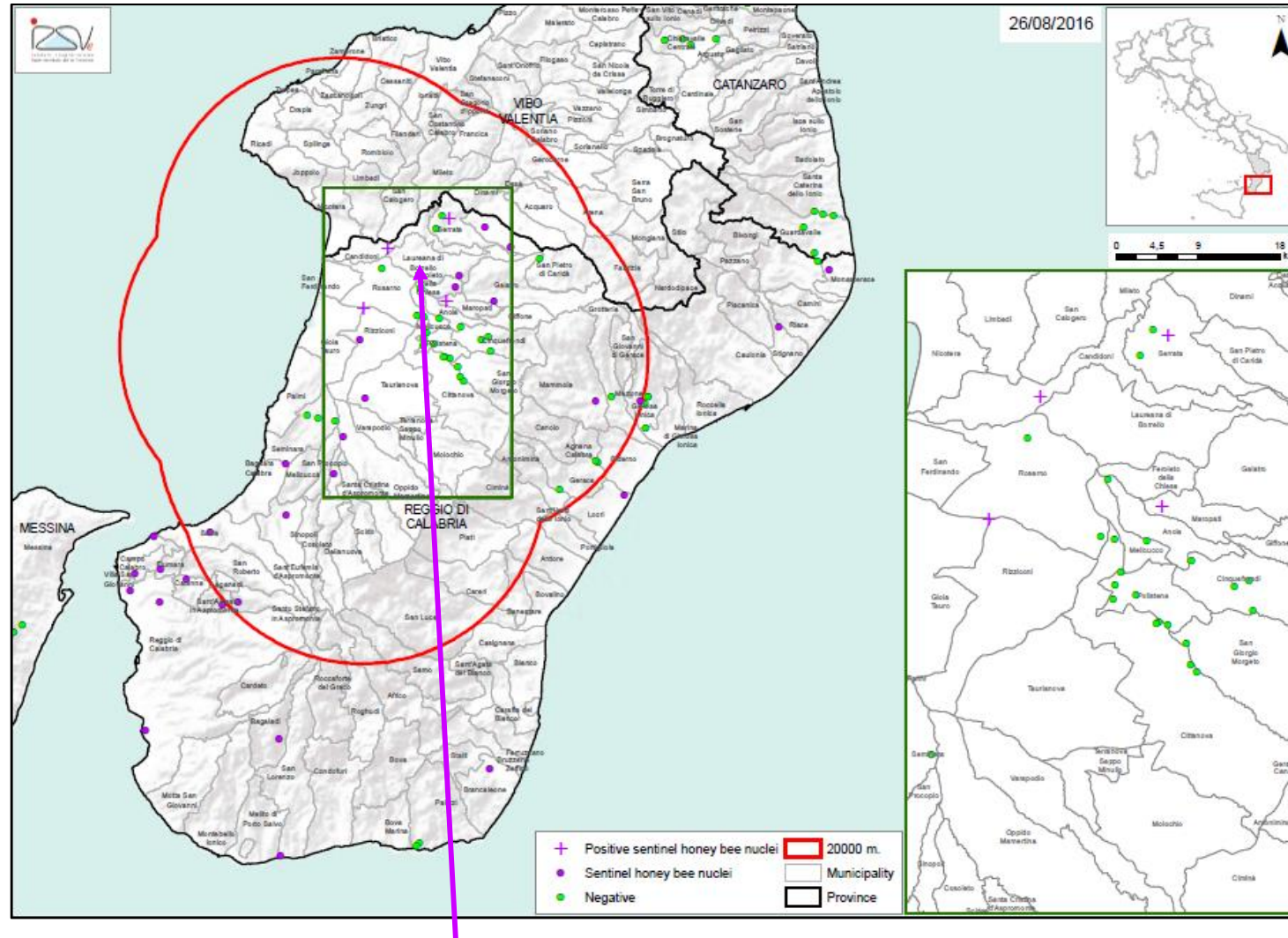
Comparison between 2014 (red) e 2015 (blue) infested apiaries



SHB surveillance program - Italy - 2016

Territory	Epidemiological units	N. apiaries	N. hives for apiary
Italy (excluded Calabria and Sicily)	Northern	177 non migratory random selected (2% expected prevalence CI 95%)	2% expected prevalence CI 95%
	Central	170 non migratory random selected (2% expected prevalence CI 95%)	2% expected prevalence CI 95%
	Southern	163 non migratory random selected (2% expected prevalence CI 95%)	2% expected prevalence CI 95%
Region	Territory/zones	N. apiaries	N. hives for apiary
Sicily	Catania Siracusa Ragusa	134 non migratory random selected (2% expected prevalence CI 95%)	5% expected prevalence CI 95%
	rest of territory	198 non migratory random selected (2% expected prevalence CI 95%)	5% expected prevalence CI 95%
Region	Territory/zones	N. apiaries	N. hives for apiary
Calabria	protection zone	53 apiaries	5% expected prevalence CI 95%
	surveillance zone + the rest of territory	147 random (2% expected prevalence CI 95%)	5% expected prevalence CI 95%

Calabria region: since April 2016



4 honey bee sentinel units (8 nucleus colonies) have been found infested by SHB adults

New SHB incident on 25 July 2016 in the province of Cosenza (Calabria region)

An unregistered beekeeper

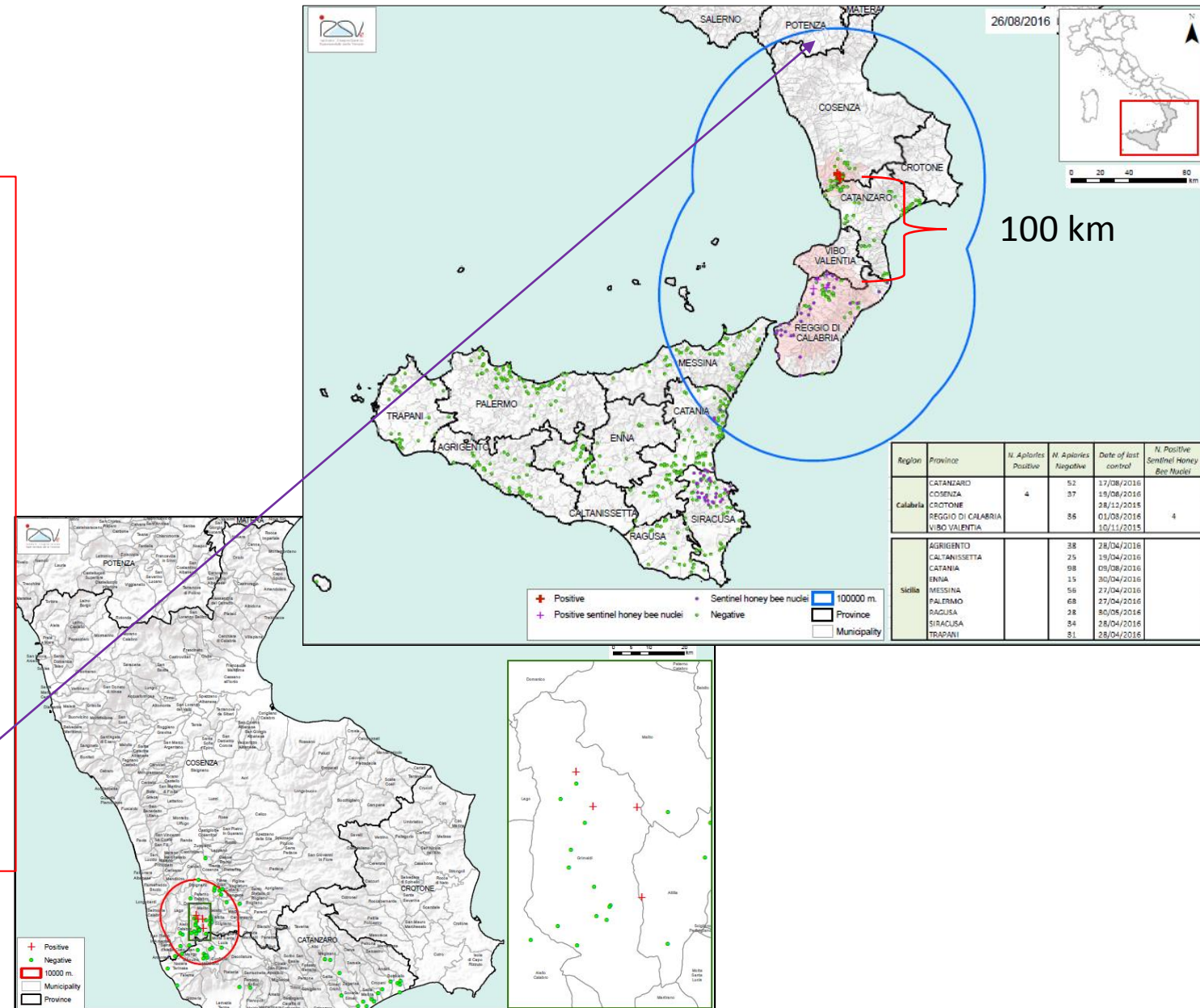
4 infested apiaries destroyed (128 colonies)

2 negatives still alive (115 colonies)

Protection zone = 10 km

Surveillance zone = the whole territory of the Calabria region

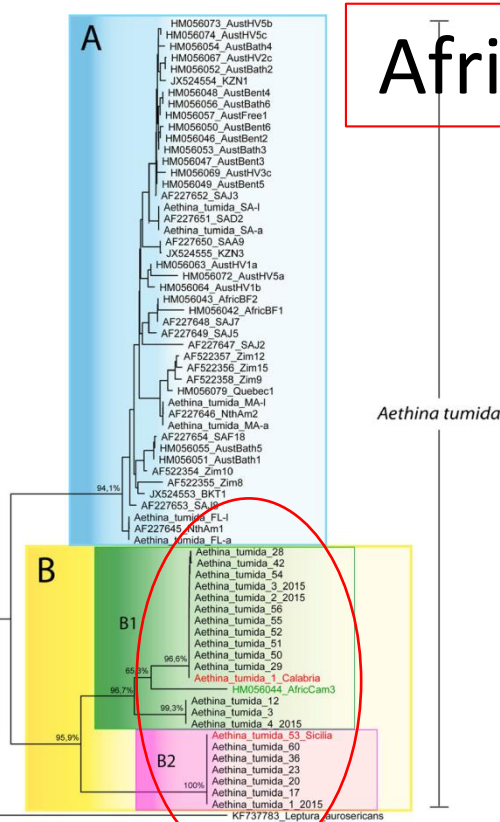
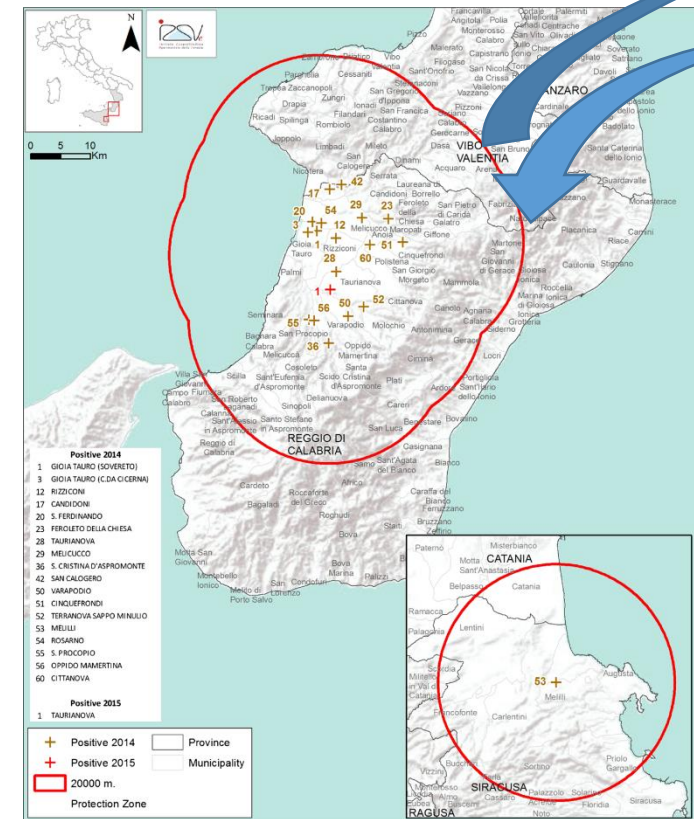
Potenza province, Basilicata region: Directive 92/65/EEC



Aethina tumida: phylogenetic analysis

(Granato et al., 2016)

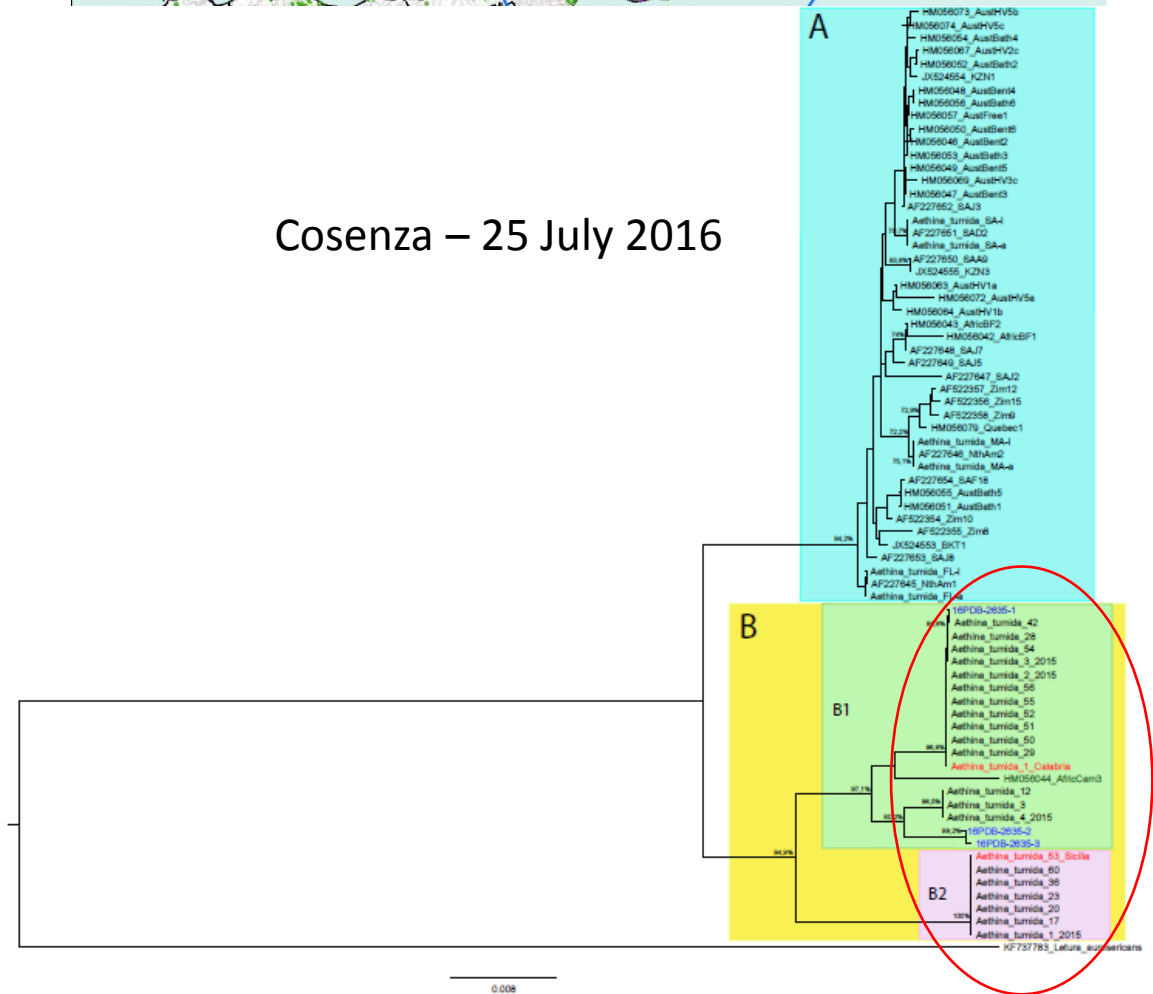
Reggio Calabria – 2014 and 2015



Africa



Cosenza – 25 July 2016



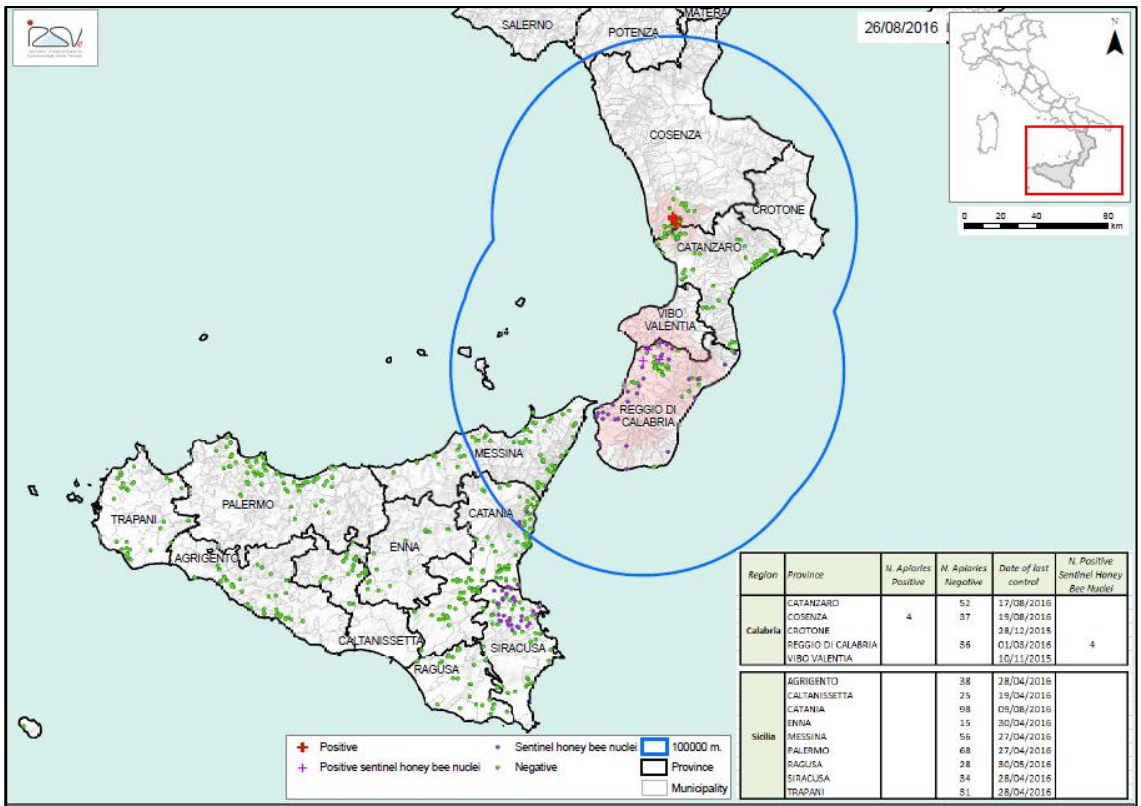
Conclusions

Calabria:
 Protection zone = 20 km (Reggio Calabria and Vibo Valentia)
 Protection zone = 10 km (Cosenza)

Sicily:
 protection zone = 10 km (Siracusa and Catania)

Surveillance zone = the whole territory of the two concerned regions

- ✓ Calabria 2014, Reggio Calabria and Vibo Valentia provinces
- ✓ Calabria 2015, Reggio Calabria province
- ✓ Calabria 2016, Reggio Calabria province – sentinel honey bee nuclei only,
- ✓ Cosenza province
- ✓ Sicily 2014, Siracusa province – one infested apiary
- ✓ Potenza province (part of) under Directive 95/62/EEC





Thank you for your attention

<http://www.izsvenezie.com/aethina-tumida-in-italy/>