



BLUETONGUE IN CYPRUS



BLUETONGUE SURVEILLANCE PROGRAMME

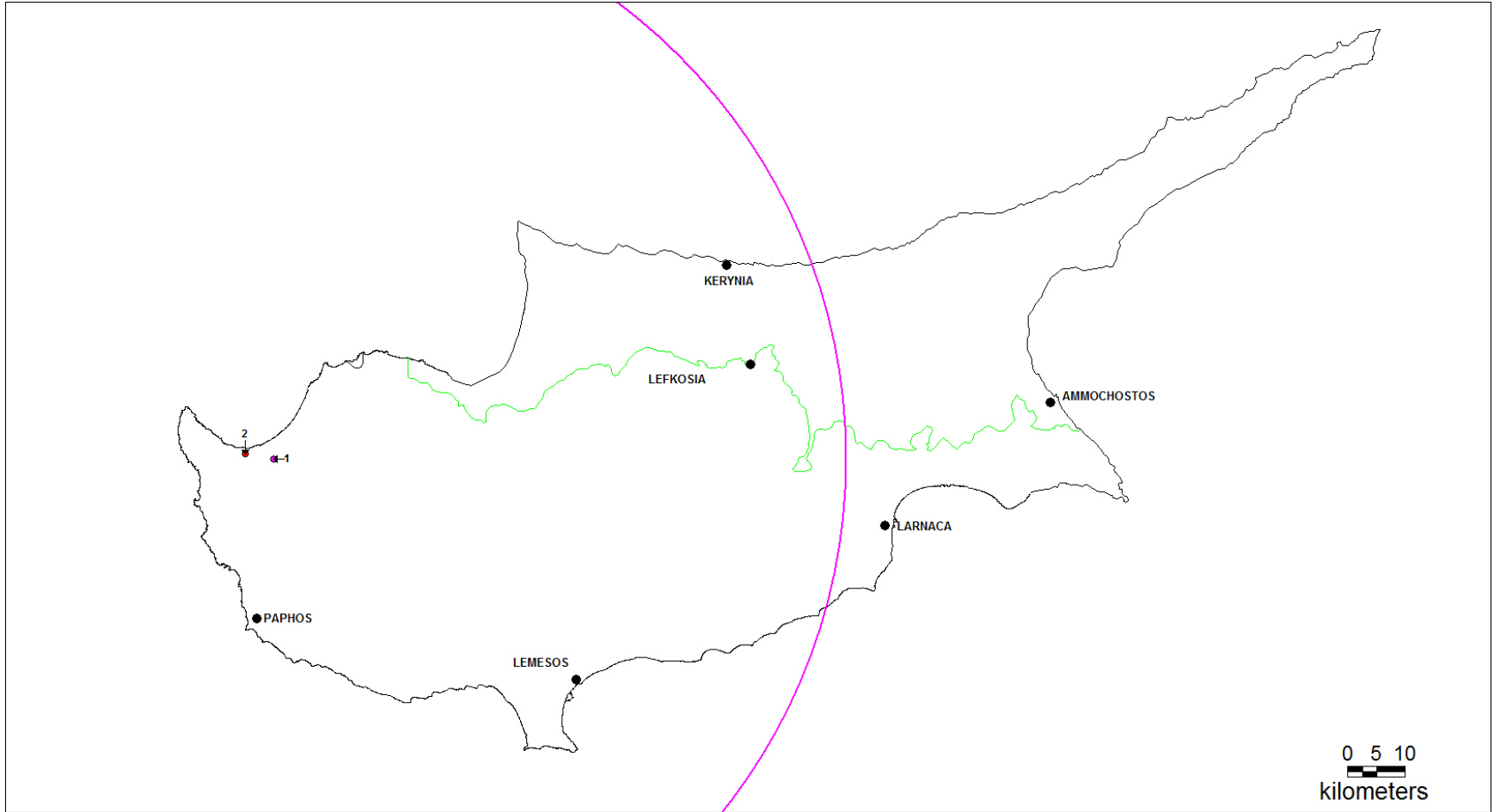
- Annual programme.
- Monthly test for seroconversion in sentinel animals in a number of holdings across the country.
- No seroconversion in the framework of the surveillance programme in 2011.

FIRST OUTBREAK - 2011

- Farm population: 493 sheep and 43 goats.
- Farm not included in the surveillance programme for 2011.
- Clinical symptoms in sheep were notified to the VS on October 20th.
- Symptoms observed:
 - Salivation, fever, lameness, swelling (oedema) of the lips and mouth, nasal discharge
- 8 out of 9 animals tested reacted positive to Real-Time PCR on October 21st.
- Serotype 4 was isolated by CRL on November 9th.

SECOND OUTBREAK - 2011

- Farm population: 818 sheep and 165 goats.
- Farm not included in the surveillance programme for 2011.
- Clinical symptoms in sheep were notified to the VS on October 20th.
- Symptoms observed:
 - Salivation, fever, lameness, swelling (oedema) of the lips and mouth, nasal discharge
- 7 out of 11 animals tested reacted positive to Real-Time PCR on October 21st.
- Serotype 4 was isolated by CRL on November, 9th.



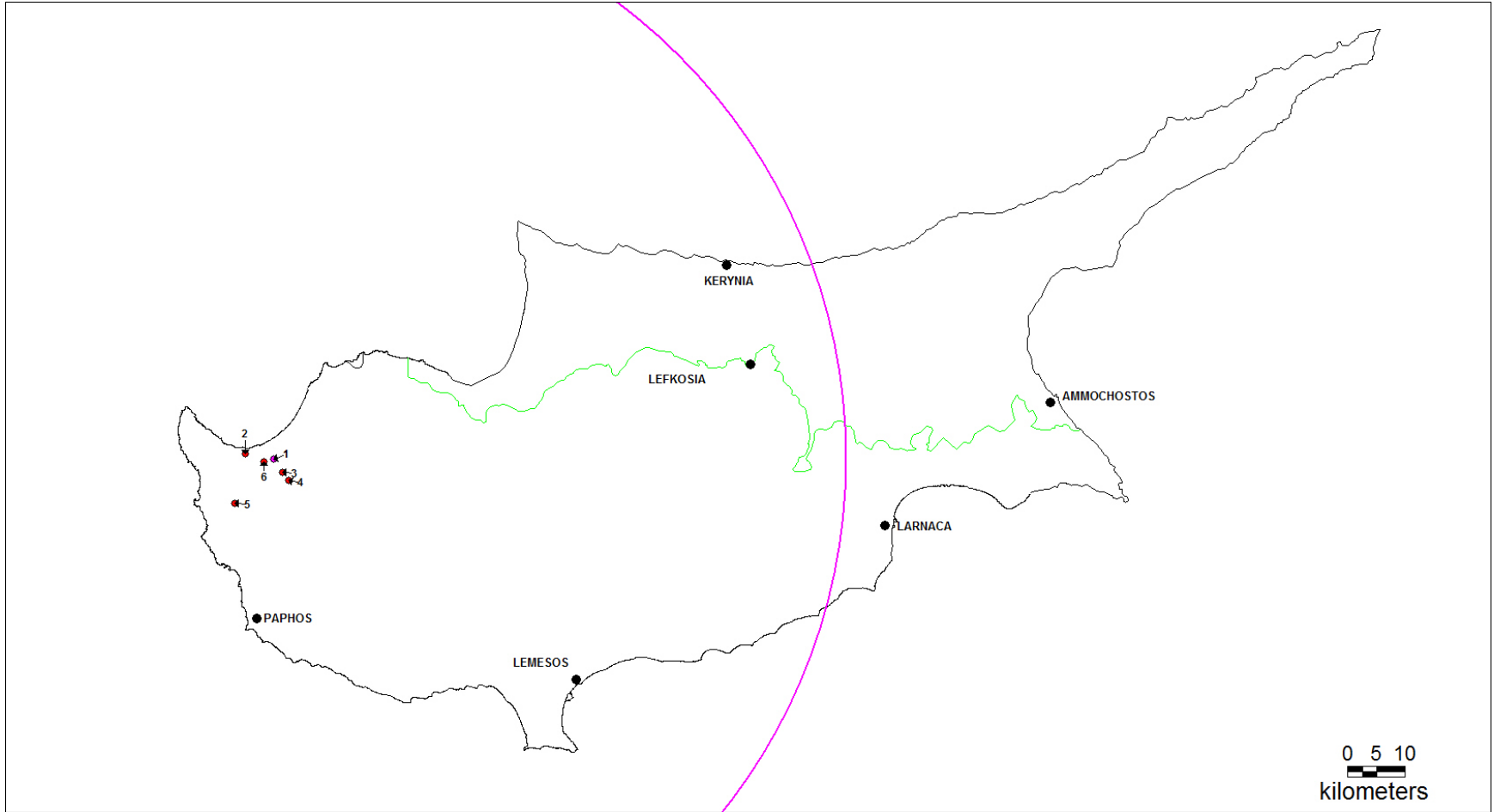


THIRD, FOURTH AND FIFTH OUTBREAKS - 2011

- Small bovine herds (3, 18 and 13 cattle respectively) close to outbreaks 1 and 2.
- No clinical signs.

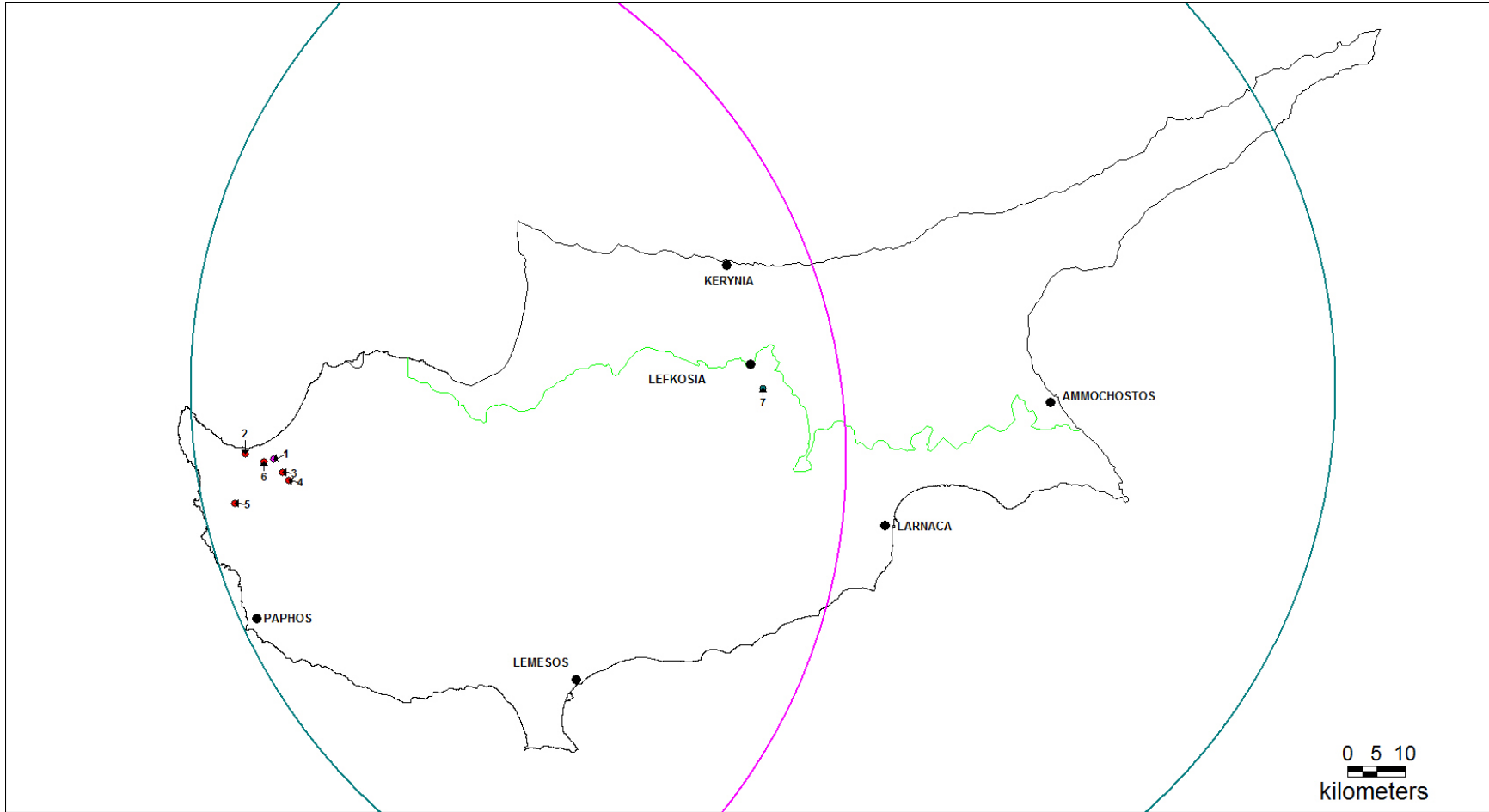
SIXTH OUTBREAK - 2011

- Ovine holding (293 sheep).
- Samples from 12 animals were sent to the CRL.
- 8 samples tested positive to serotype-4 on November 9th.
- 4 samples were negative.



SEVENTH OUTBREAK - 2011

- Farm population: 848 sheep and 405 goats.
- No clinical signs.
- One sheep, brought to the veterinary Services for post-mortem examination, reacted positive to Real-Time PCR on November 6th.
- BTV-4 isolated by CRL on November 22nd.



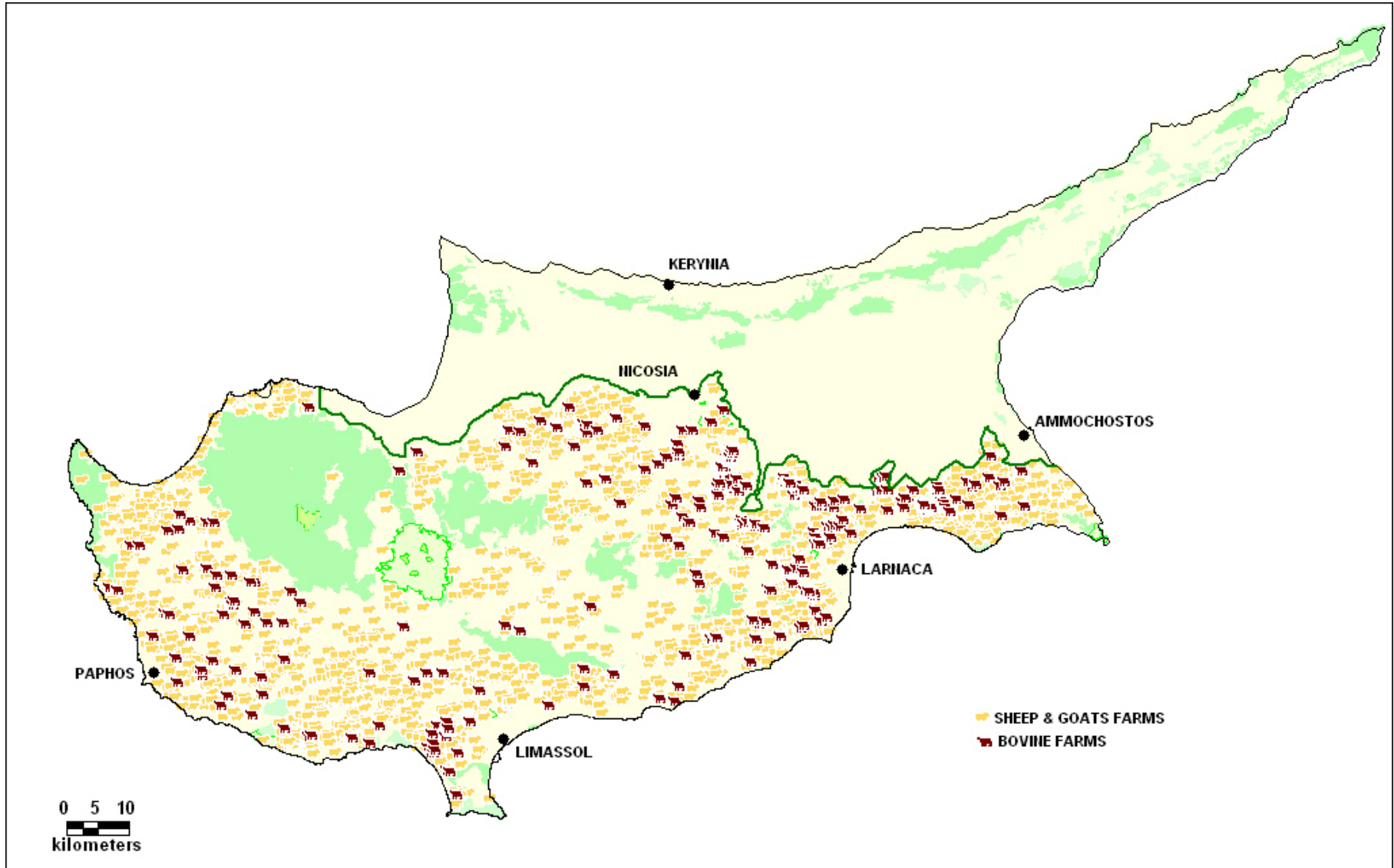
EIGHT OUTBREAK - 2011

- Farm population: 1816 sheep.
- Animals with clinical signs.
- BTV-16 isolated by CRL on November 22nd.

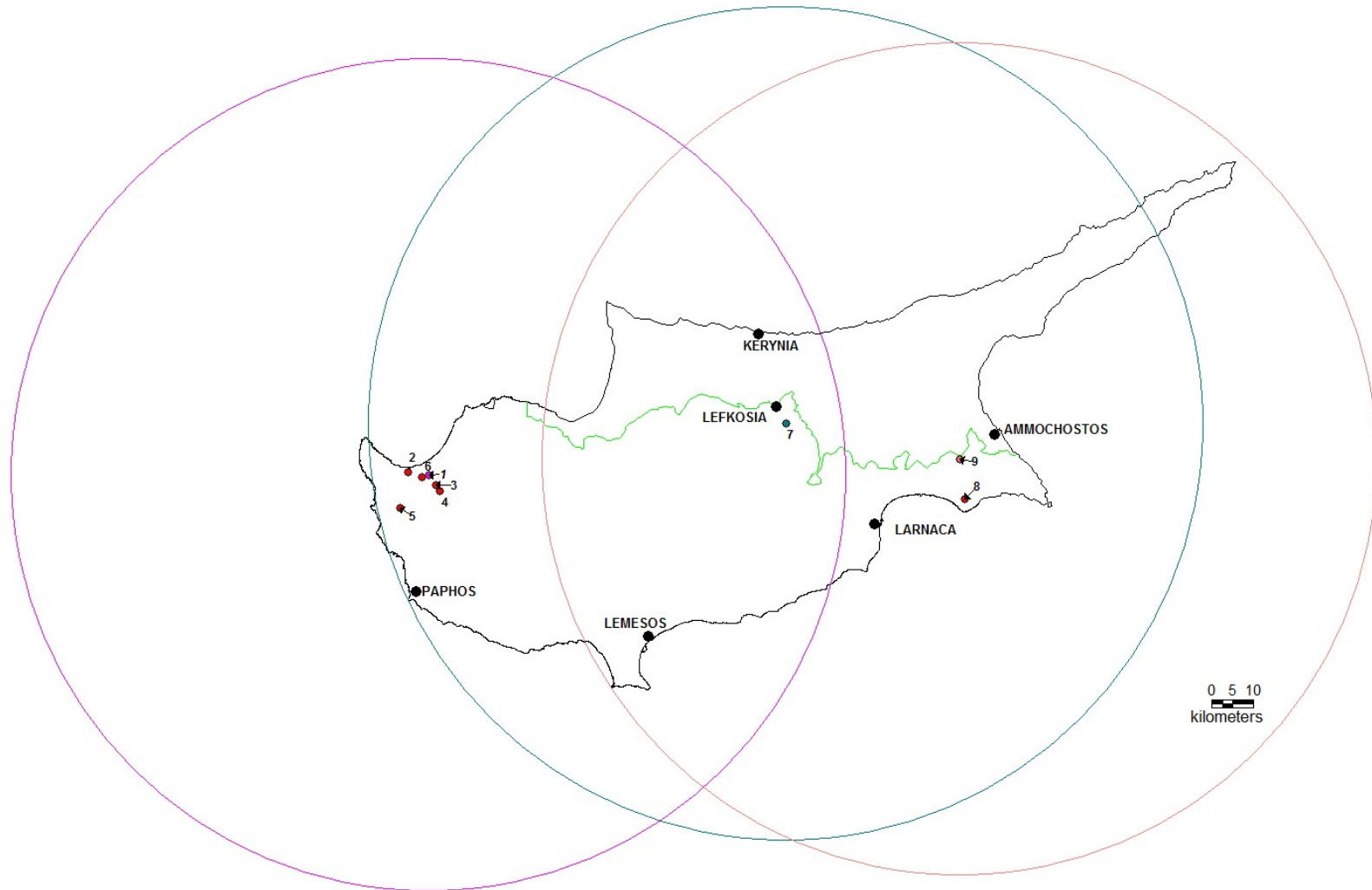
NINTH OUTBREAK - 2011

- Farm population: 512 sheep.
- Animals with clinical signs.
- Two sheep, brought to the Veterinary Services for post-mortem examination, reacted positive to Real-Time PCR on November 11th.
- BTV-4 isolated by CRL on November 22nd.

Distribution of cattle, sheep and goat farms in Cyprus



LOCATION OF OUTBREAKS



EPIDEMIOLOGICAL FACTS

- Serotype 4 was isolated from outbreaks 1, 2, 6, 7 and 9.
- Samples for cattle farms (outbreaks 3, 4 and 5) were not sent for serotyping due to their proximity with outbreaks 1, 2 and 6.
- 2 serotypes are circulating in Cyprus: 4 and 16.
- Due to the size of the island, the epidemiology of the disease, in case of an outbreak the whole island is considered as protection zone
- Regarding the new restricted zone, the whole territory of Cyprus should be demarcated as restricted for both BTV-16 and BTV-4
- Origin of serotype 4: unknown.



Thank you