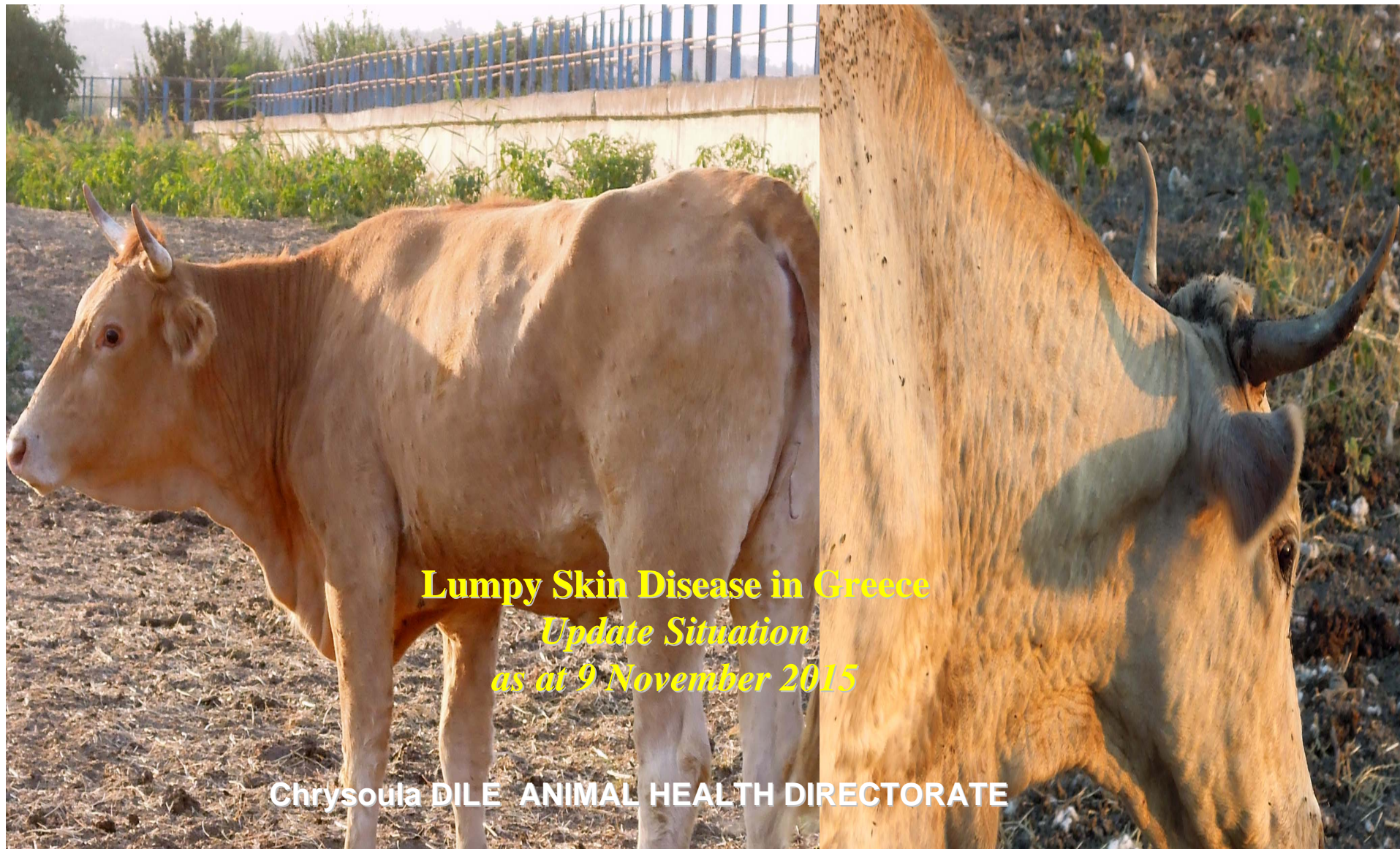




HELLENIC REPUBLIC
MINISTRY OF RURAL DEVELOPMENT AND FOOD
DIRECTORATE GENERAL OF SUSTAINABLE ANIMAL PRODUCTION & VETERINARY MEDICINE
ANIMAL HEALTH DIRECTORATE



Lumpy Skin Disease in Greece
Update Situation
as at 9 November 2015

Chrysoula DILE ANIMAL HEALTH DIRECTORATE

Lumpy Skin Disease in Greece

- On **20 August 2015** the first outbreak of LSD in Greece was confirmed in Evros Regional Unit within the Evros river Delta in 2 bovine holdings (beef cattle), free ranging
- Since then and **until the last PAFF Committee** on 7-8 October 2015 the disease has been extended to other Regional Units: Xanthi, Kavala, Limnos (island) :

61 Confirmed Outbreaks

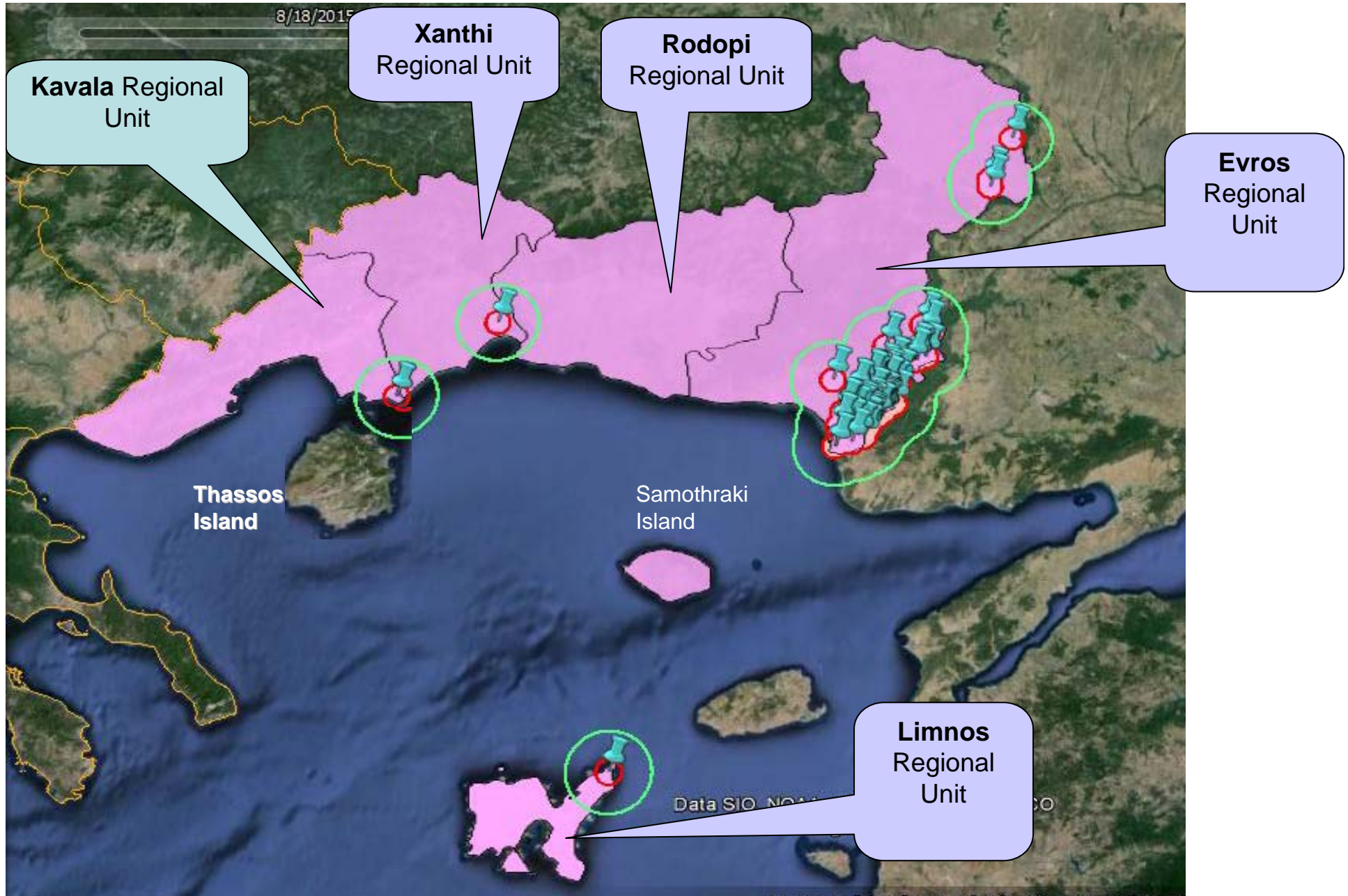
58 Evros (55 S.Evros and 3 N.Evros)

1 Xanthi

1 Kavala

1 Limnos Island

5 Restricted Areas (Dec 2015/1500)



Lumpy Skin Disease in Greece: Measures

Control Measures as described in Directive 92/119/EEC

- Surveillance & Protection zones
- Stamping out
- Movement Controls
- Sanitary Burial on the spot etc

Measures as described in Commission's Implementing Decision (EU) 2015/1500

and since **5 September 2015**
supplementary to control measures

Emergency vaccination is implemented of all susceptible species (cattle, buffaloes) starting from Regional Unit of Evros

Lumpy Skin Disease in Greece – Measures in place

Emergency vaccination

- The implementation of Emergency vaccination has been decided taking into consideration the following aspects:
- The area of Region of Thrace and especially the area of Evros have historically suffered from animal disease crises (e.g. Sheep Pox in 2013-2014, BT 2014 e.t.c)
- financial + social impacts because of devastating effects for the local farming industry in the area
- stamping out involves a high cost
- unclear if the stamping out policy alone is sufficient to stop disease spread
- the spread of the disease is higher than expected (according to bibliography)

Lumpy Skin Disease in Greece – Emergency vaccination- General Aspects 1

- At the beginning of implementation of vaccination programme we had oriented towards the Lumpy Skin Disease Vaccine for Cattle produced by Onderstepoort Biological Products, South Africa, because of its readily availability and the existence of stock quantities vaccine
- On 29 October 2015 the second vaccination Lumpyvax produced by Intervet, South Africa have been provisionally allowed by the National Medicine Organization following the procedure of Article 8 of Directive 2001/82/EC
- The vaccination is compulsory in the total bovine population of a Regional Unit which has been characterized as Restricted Area (with or without outbreaks)
- The whole procedure of vaccination is under the control of the official veterinary authorities (delivery at the airport, storage, distribution, vaccination, destroy of residual quantities)
- In vaccinated areas measures are going to be implemented according to the new Decision is expected to be published

Lumpy Skin Disease in Greece –Emergency vaccination- General Aspects 2

- The emergency vaccination will be extended to the Regional Unit of Chalkidiki as soon as vaccines will be received
- It is decided to implement vaccination program to free areas like Thessaloniki and Kilkis because of the high bovine population, density, proximity to Chalkidiki (at least for the Thessaloniki)
- The vaccination will be starting along the natural border of Axios river, especially from west to east in order to cover the territories of above R.U. and to prevent the further spreading of disease to the rest of the country

Lumpy Skin Disease in Greece

Safeguard measures throughout the country (1)

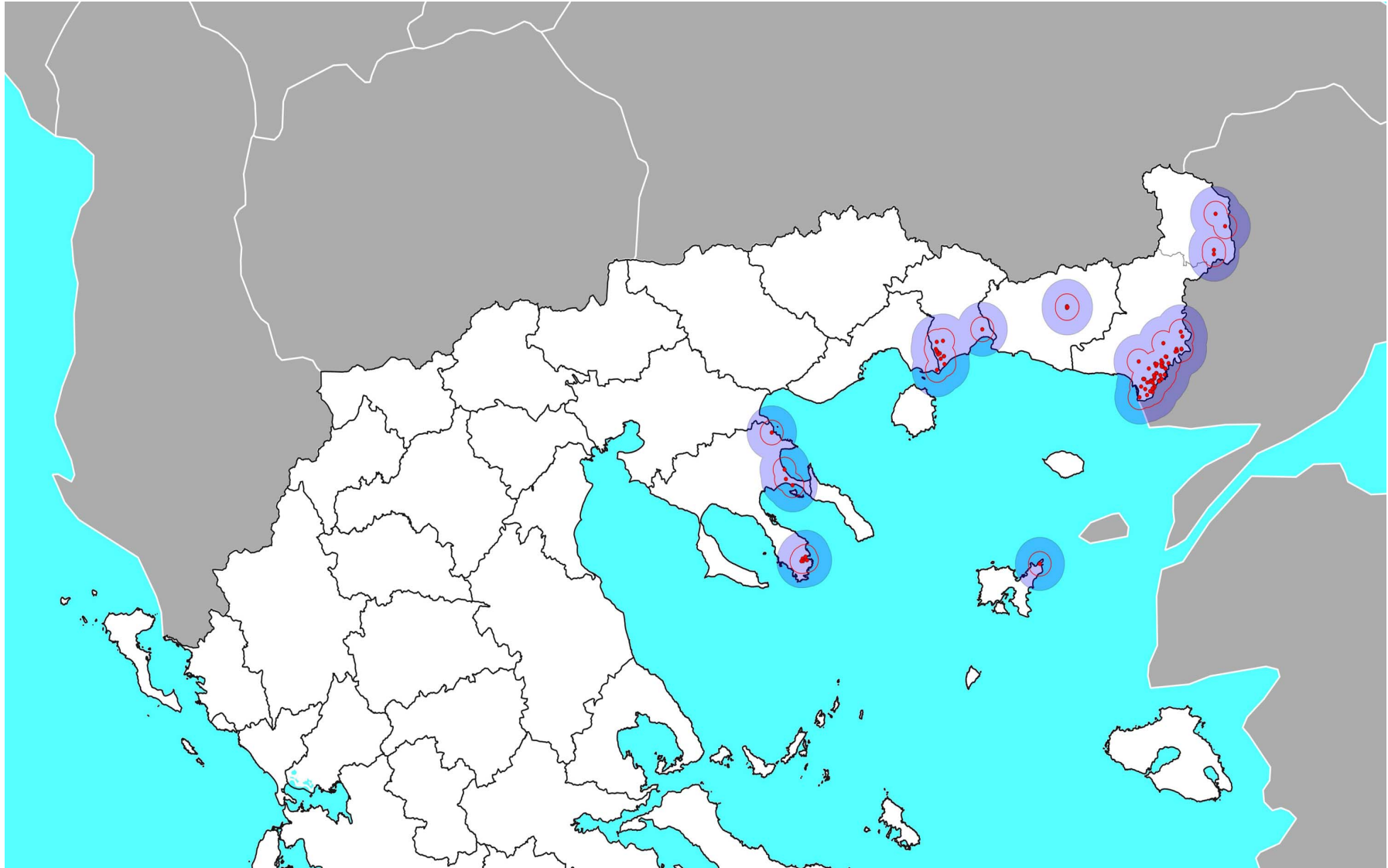
- Activation of national contingency plan throughout the Country
- Minimizing cattle movements across the country
- Before movement animals should be clinically examined and accompanied by a health certificate marked with a special red coloured stamp attesting «absence of clinical symptoms of LSD»
It is noted that the clinical examination will not be restricted to animals intended to move, but to all **animals on the farm and in cohabitated farms**
- Enhanced preparedness of Veterinary Services, farmers, transporters, traders of live animals and private veterinarians
- Development of a monitoring system in cattle farms of each region associated with on the spot visits at a frequency defined on risk-based criteria such as: capacity, commercial activity, biosecurity measures, cattle population, density of bovine holdings in the area, presence of risk factors (rivers,lakes, ponds).

Lumpy Skin Disease in Greece

Safeguard measures throughout the Country (2)

- During visits to the farms in the course of implementation of other programs and official controls, all the bovine animals should be examined for the presence of symptoms of lumpy skin disease
- Enhanced surveillance in cattle movements within country
- All movements of bovine animals (Sell, Buy, slaughter) should be registered as a priority and updated in National Database to be ensured the monitoring of their movements
- Epidemiological investigation of any cattle arrivals from areas with outbreaks 2 months before confirmation date, is insisted
- Official veterinarians should insist on cleaning and disinfection of animal transporter vehicles before loading and after unloading of animals. Particular attention to be given to manure and bedding, where insects and arthropods may be trapped
- Enforcement of the implementation biosecurity measures in holdings

Situation in Greece 9 Nov 2015



Lumpy Skin Disease in Greece

An overview(as at 09.11.2015)

- **Confirmed Outbreaks : 98**

64 Evros	17 Xanthi,
4 Rodopi	1 Kavala,
1 Limnos	11 Chalkidiki

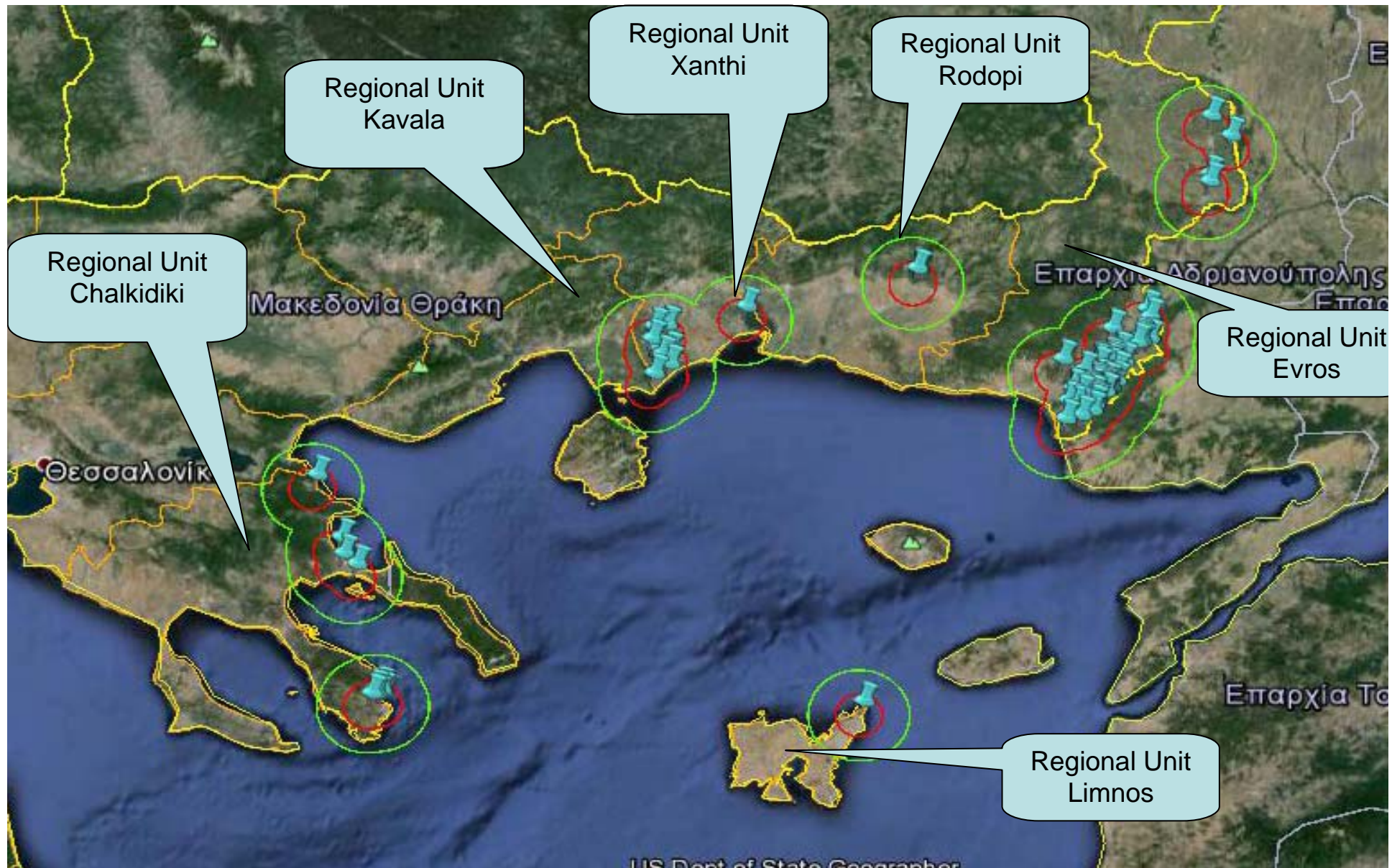
- **Total number of culled/destroyed animals: 5.161**

- **Mortality :0,57%**
- **Morbidity: 9, 19%**

- **Number of Vaccinated Animals: 44.691**

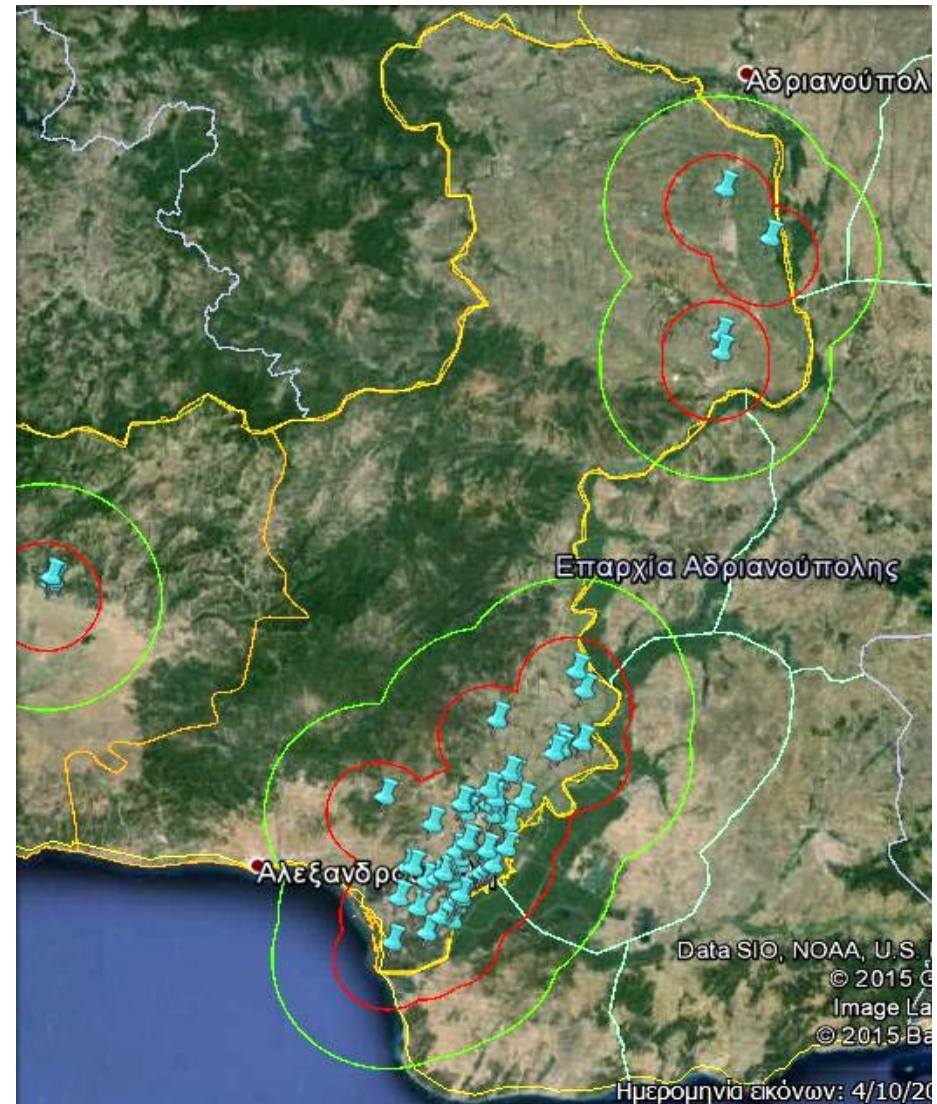
Lumpy Skin Disease in Greece

An overview



Lumpy Skin Disease in Greece in Regional Unit of Evros- Disease Incidents

- On 20 August 2015 the first outbreak of LSD in Greece was confirmed in Evros Regional Unit within the Evros, river Delta in two bovine holdings (beef cattle), free ranging
- Since then **64 outbreaks** (60 S.Evros and 4 N.Evros) have been confirmed in the whole area of Evros
- Date of first outbreak 20/8/ 2015 in S. Evros
- Date of starting vaccination 5 Sept 2015
- Date of last outbreak in S. Evros 2 October 2015
- Date of last outbreak N. Evros 23 October 2015
- No suspicions at the moment



Lumpy Skin Disease in Greece **in Regional Unit of Evros- Vaccination Results**

Vaccination Campaign in RU of EVROS: Completed on 2/10/ 2015			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals
Regional Unit of Evros	5/09/2015	2/10/2015	* 100%

* 4 holdings left (118 animals) completed 15 October 2015

Total vaccinated animals ≈ **14.541**

Lumpy Skin Disease in Greece in Regional Unit of **Xanthi- Disease incidents**

- **On 25 September** the disease appeared in regional unit of Xanthi where it actually “jumped”
- Until now **17 outbreaks** have been confirmed.
- The 1st outbreak occurred close to the borders with Regional Unit of Rodopi, but
- The following 16 located within the same area, close to Delta of river Nestos on the borders of Regional Unit of Kavala,
- Date of last outbreak **5 October 2015**
- 1 suspicion awaiting

Lumpy Skin Disease in Greece
in Regional Unit of Xanthi- Vaccination Results

Vaccination in Xanthi : in progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals (until 5 November 2015)
Regional Unit of Xanthi	26/9/2015	In progress	64 %

Animal population left is mainly on the mountains
Estimated time to be completed: 1st half of November 2015

Lumpy Skin Disease in Greece in Regional Unit of Kavala - Vaccination Results

Vaccination in Kavala: in progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals (until 5 November 2015)
Regional Unit of Kavala	1/10/2015	In progress	61%

Animal population left is mainly on the mountains

Estimated time to be completed 1st half of November 2015

Lumpy Skin Disease in Greece in Regional Unit of Rodopi- Disease Incidents

- Regional Unit of Rodopi, despite the fact that no outbreaks had appeared, it has been characterised as Restricted area because of the extension of the surveillance zone of infected holding in Xanthi.

- Meanwhile on **14 October 2015**, a primary outbreak was confirmed. It is located in the middle of Regional Unit away from the affected areas of Xanthi and Rodopi. No connection with the affected areas has been identified. The last time when the farmer bought animals was 1 year ago.

- Total number of outbreaks: 4
- Date of first outbreak 14.10.2015,
- Date of last outbreak 5.11.2015,

Lumpy Skin Disease in Greece in Regional Unit of Rodopi - Vaccination Results

Vaccination in Rodopi : In progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals (until 5 November 2015)
Regional Unit of Rodopi	26/09/2015	in progress	33 %*

Estimated time to be completed: 2st half of November 2015

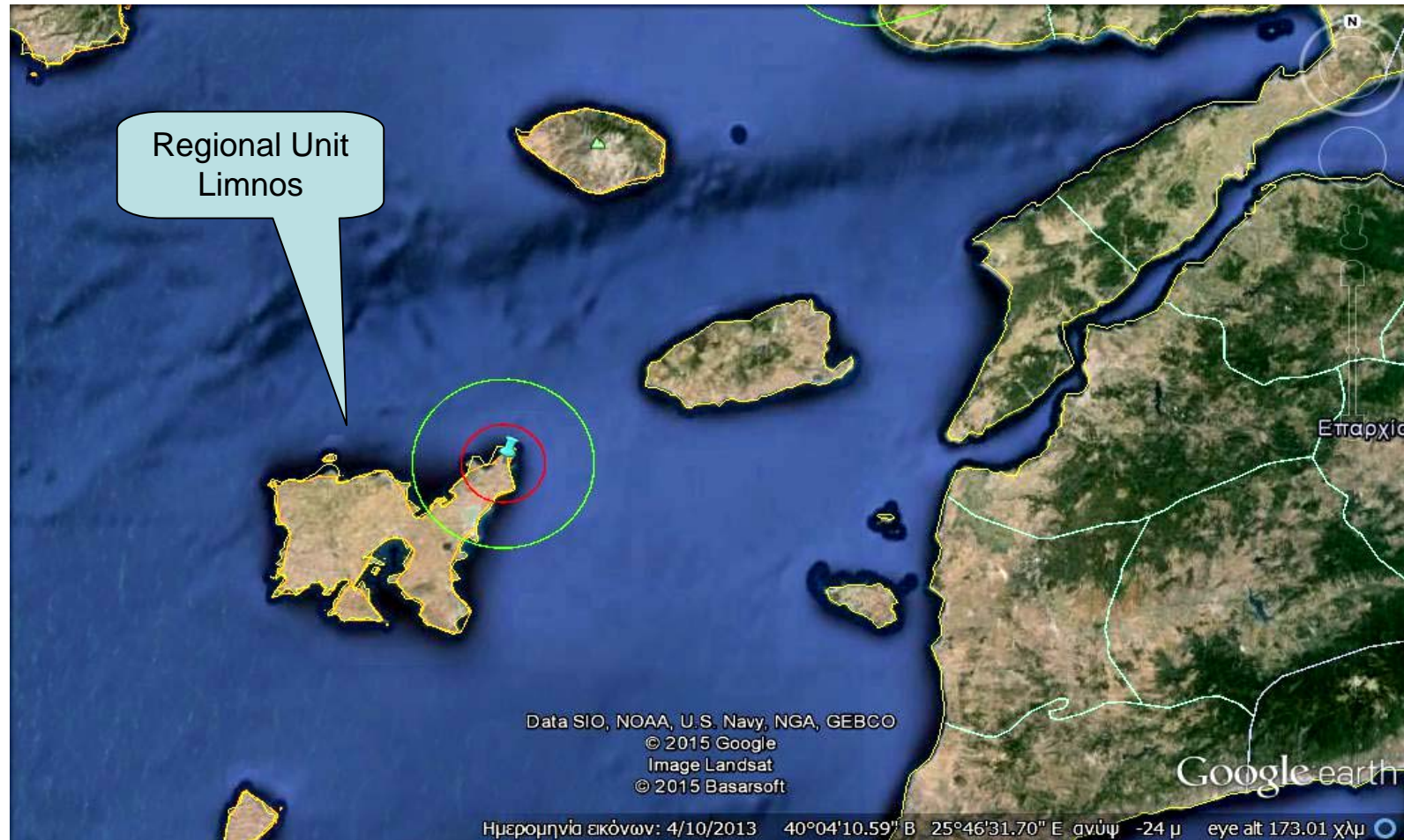
Lumpy Skin Disease in Greece in Regional Unit of Rodopi- Xanthi- Kavala :Disease Incidents



Lumpy Skin Disease in Greece in Regional Unit of Limnos – Disease incidents and Measures

- On **7 September** an outbreak was confirmed in the Regional Unit of Limnos, an island in north Aigaion
- The affected holding was small, with 3 animals (2 cattle and 1 calf), free grazing
- There is no evidence of animal movements
- The herd is close to a small water pond where population of ducks is living. The animals have been destroyed
- Within the surveillance and protection zone (extended to 5 km) there are only 3 holdings with 6, 21, 16 animals respectively, which are under official supervision
- For the time being a decision was taken **not to implement vaccination** based on the current epidemiological situation (low density, isolated area, no other outbreak confirmed).

Lumpy Skin Disease in Greece in Regional Unit of **Limnos** – **Disease incidents and Measures**

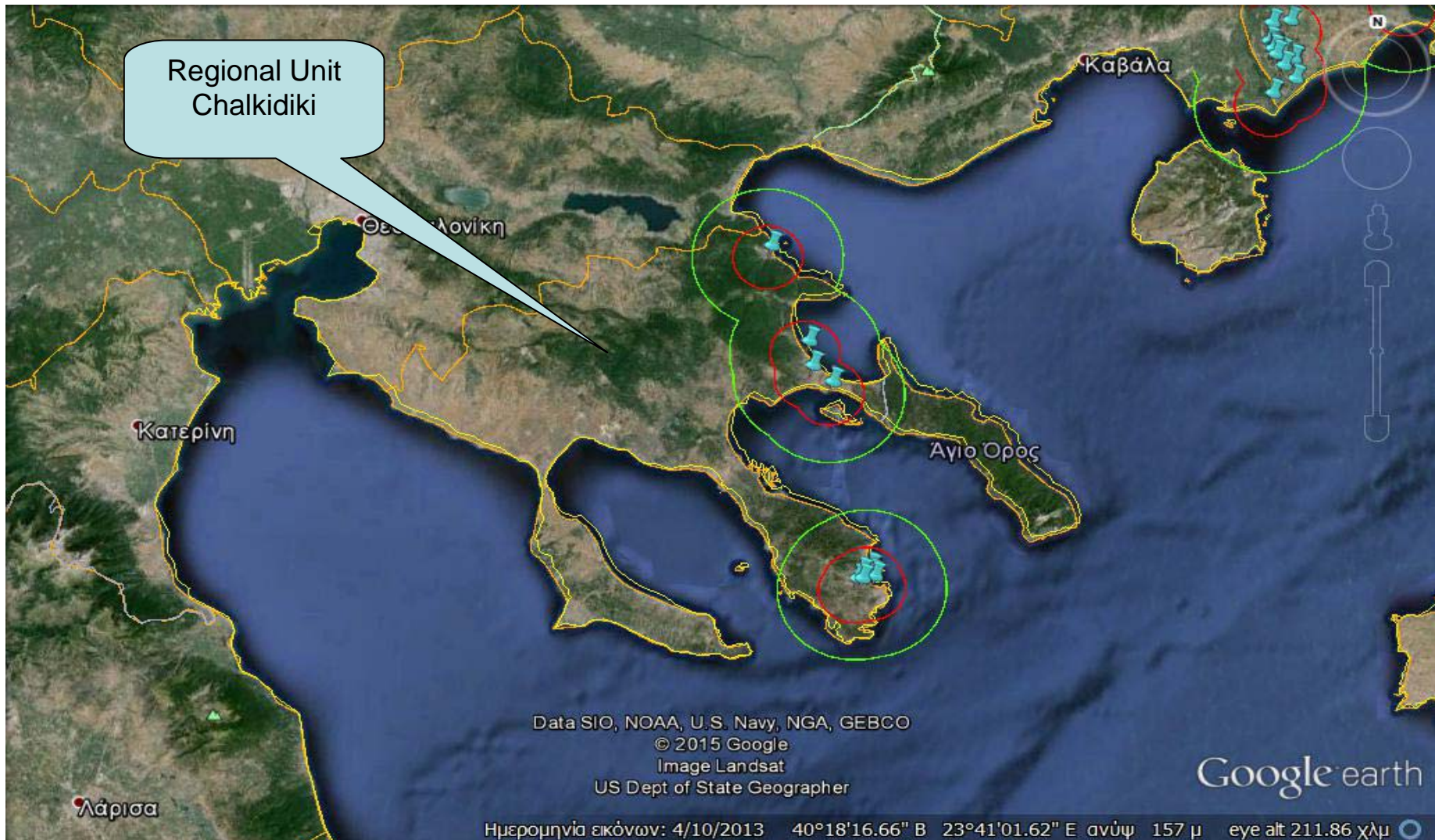


Lumpy Skin Disease in Greece

in Regional Unit of Chalkidiki- Disease incidents

- On 14 October the 1st outbreak in Regional Unit of Chalkidiki was confirmed in Ierissos on the third “leg” of the peninsula.
- The suspicion of the disease was pointed out 2 days before on 12 October at a slaughterhouse in Regional Unit of Drama, where 2 animals of the holding arrived to be slaughtered.
- The veterinarian in the slaughterhouse, immediately informed the Veterinary Authority of the Regional Unit of Drama, the Central Authority and the Veterinary Authority of Chalkidiki where the holding is located. Samples from the slaughterhouse and the holding have been taken to be analysed at the laboratory (with positive results)
- The slaughterhouse has been under official supervision according to the contingency plan and the procedures of cleaning and disinfection were implemented. The slaughterhouse remained closed for pigs for 2 days (it is mainly a slaughterhouse for pigs, belonging to the cooperative union of local pig farmers) and for bovine animals for 7 days.
- Until today total number of outbreaks: 11
- Date of first outbreak 14.10.2015
- Date of last outbreak 6.11.2015
- Vaccination campaign is going to start when the vaccines will arrive

Lumpy Skin Disease in Greece in Regional Unit of Chalkidiki- Disease Incidents



Lumpy Skin Disease in Greece

Lessons learnt

- The key point in the disease control is to be noticed the soonest we could,
- Vaccination is effective as tool for control and eradication,
- Preventive vaccination in high risk areas is worthwhile and should be reconsidered,
- Vaccine availability is crucial to respond to the spreading of the disease,
- Total stamping out of vaccinated animals which indicate symptoms should be clarified

Acknowledgements

Many thanks to all colleagues
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**Thank you very
much for your
attention !!!**