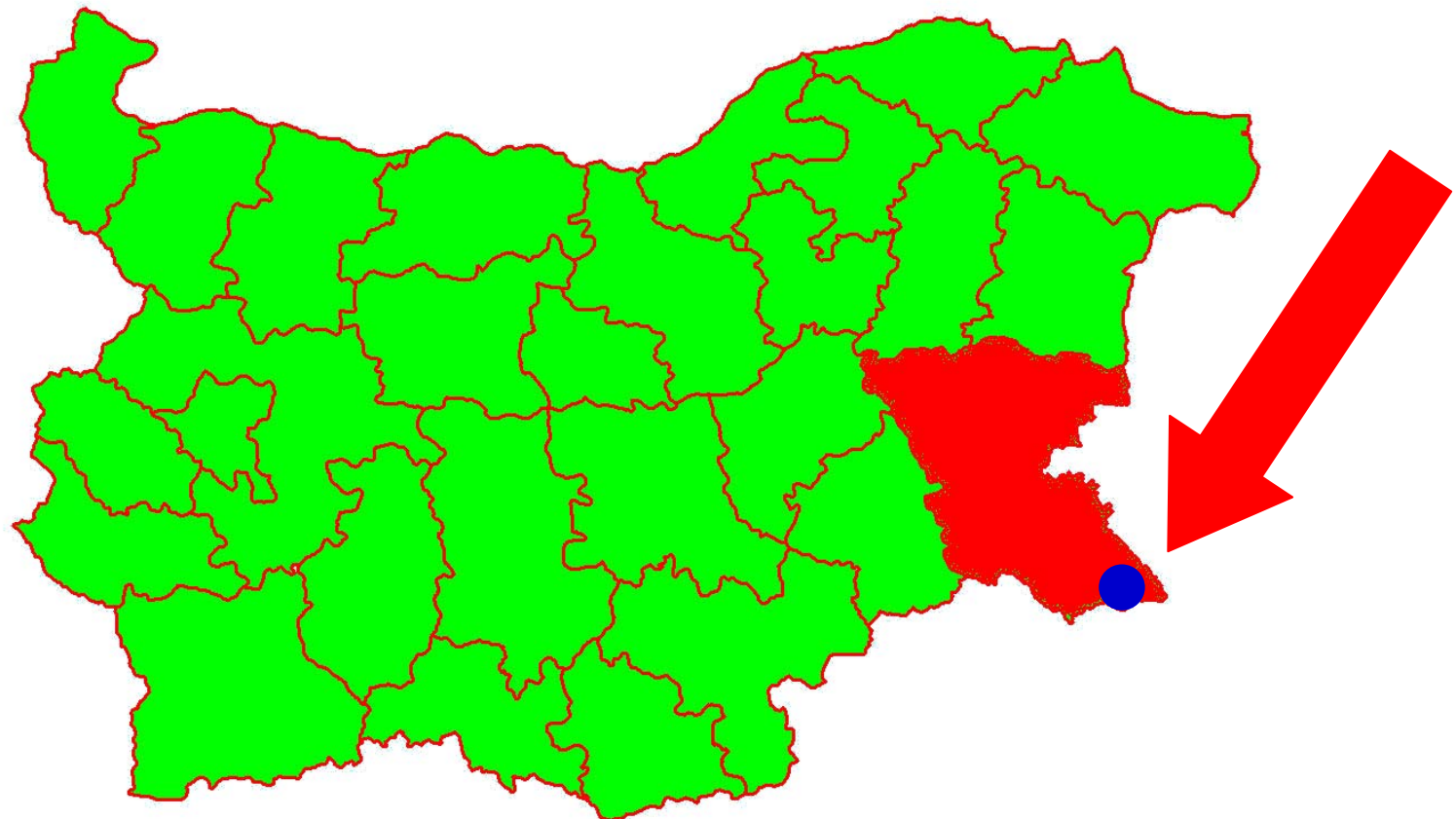
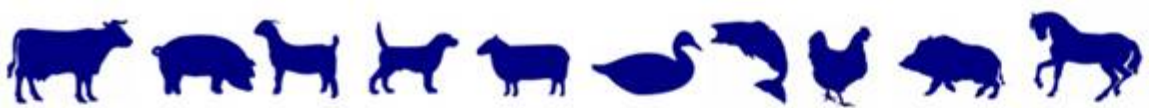


FMD in Bulgaria

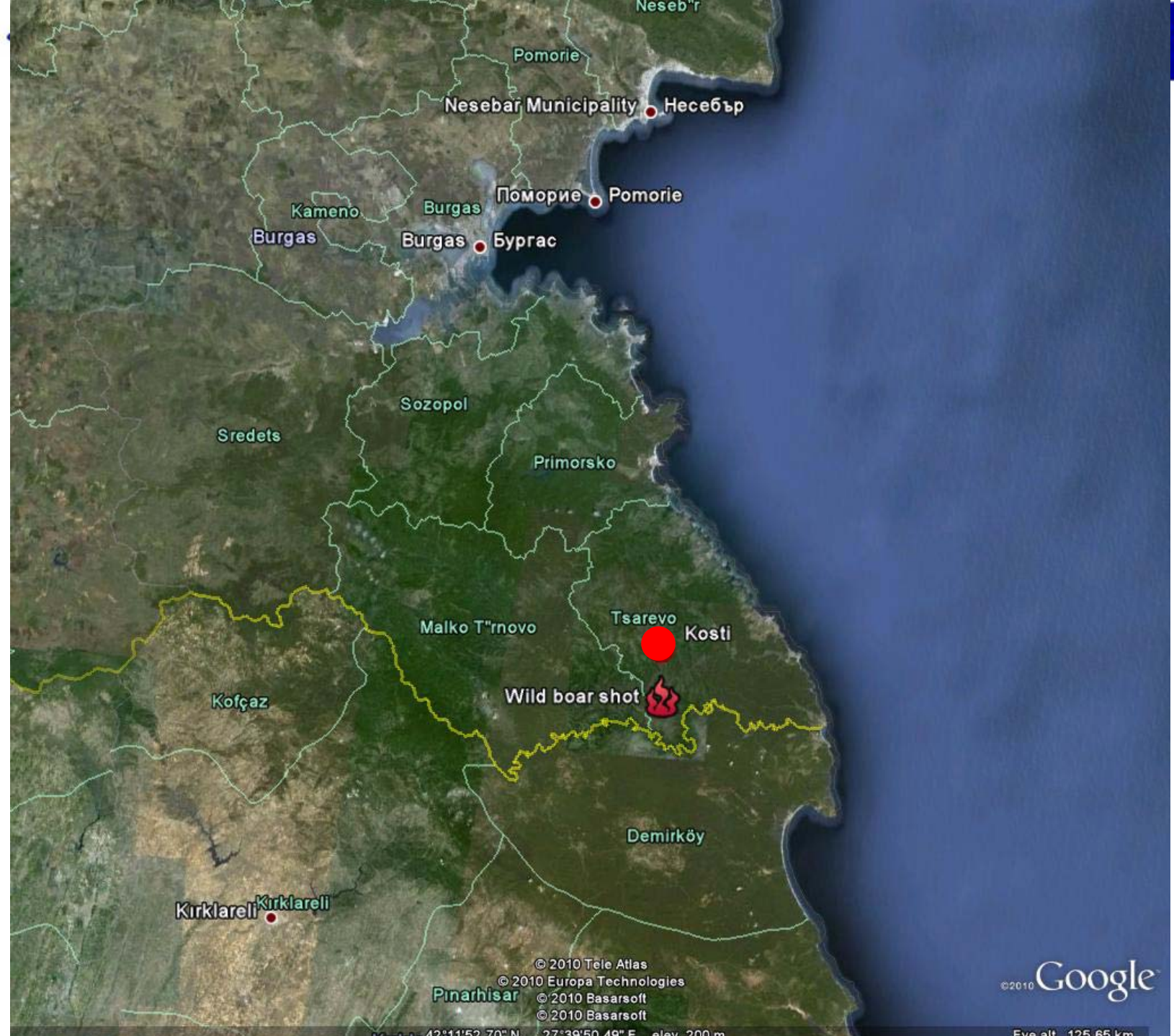


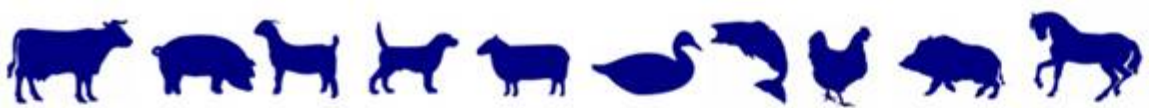
SCoFCAH, 11-12 Jan 2011



Chronology

- 29th December 2010 –wild boar with lesions in the feet, shot 2 km from the Turkish border; (42° 00'409"N; 27°46'49.33"E)
- 3th Jan – the sample sent to NRL
- 4th Jan 2011, 22:00 p.m. – Wild boar positive for FMD type O, (*3 ABC NSP ELISA + antibodies FMD type O ELISA; RT-PCR*)
- 5th Jan - Immediate measures – the expert group in the hot spot
- 6th Jan - 7 Expert teams on the spot – daily clinical examinations and sampling in three municipalities of Burgas
- 9th Jan – 12 goats, 16 sheep, (*3 ABC NSP ELISA+ antibodies FMD type O ELISA*) + 1 bovine and 8 pigs from the village of Kosti confirmed positive for NSP (42° 3'32.01"N; 27°46'49.33"E) *3 ABC NSP ELISA*
- 11th Jan - 1 additional expert team and 3 additional disinfection teams on the spot
- No clinical signs observed as by 11th Jan
- Start of killing and burial of susceptible animals from the village of Kosti





Where did the virus come from?

The infected wild boar

- migration of WB between Turkey and Bulgaria
- last outbreak in BG is 1996 (a country free of FMD without vaccination practice)
- FMD never detected in Burgas region

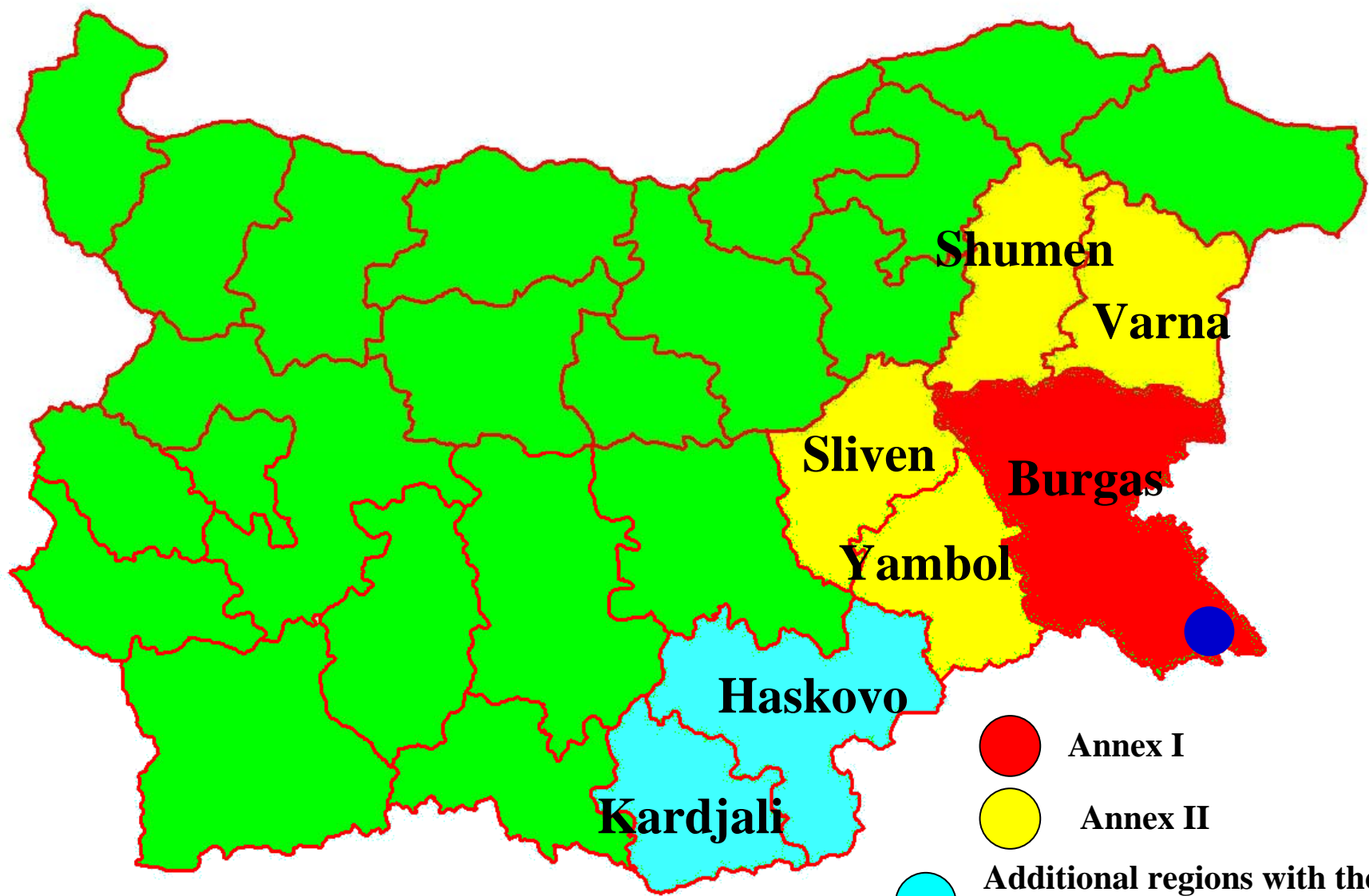
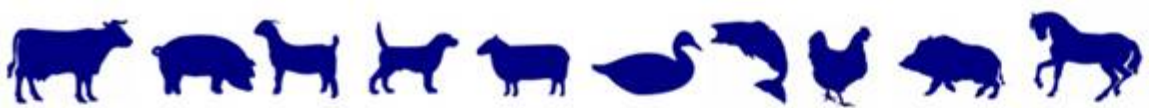
Village of Kostı




- Introduced with meat or products from hunted wild boar
- Indirect contacts with WB

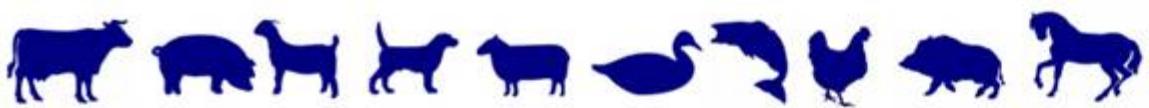


Measures undertaken

- NCC in operation
- Regional and municipal epizootic commissions carried out
- All institutions involved (NVS, police, border police, forestry agency, municipal bodies, mares etc.)
- All animals closed
- Clinical observations and sampling blood from susceptible animals
- Tracing and disposal of meat & meat products from shot wild boars in the area
- All roads around Kosti with disinfection and police control
- Desinfection of all vehicles entering from Turkey; Check of luggage
- Ban on animal movements in Burgas, Varna, Shumen, Sliven, Yambol, Haskovo, Kardjali regions
- Ban on movement of animal products from susceptible animals from Burgas, Varna, Shumen, Sliven, Yambol, Haskovo, Kardjali regions
- Ban on Hunting in Burgas, Varna, Shumen, Sliven, Yambol, Haskovo, Kardjali regions
- 10th Jan - end of hunting season for WB for the rest parts of the country
- Killing and burial of all susceptible animals in the affected village

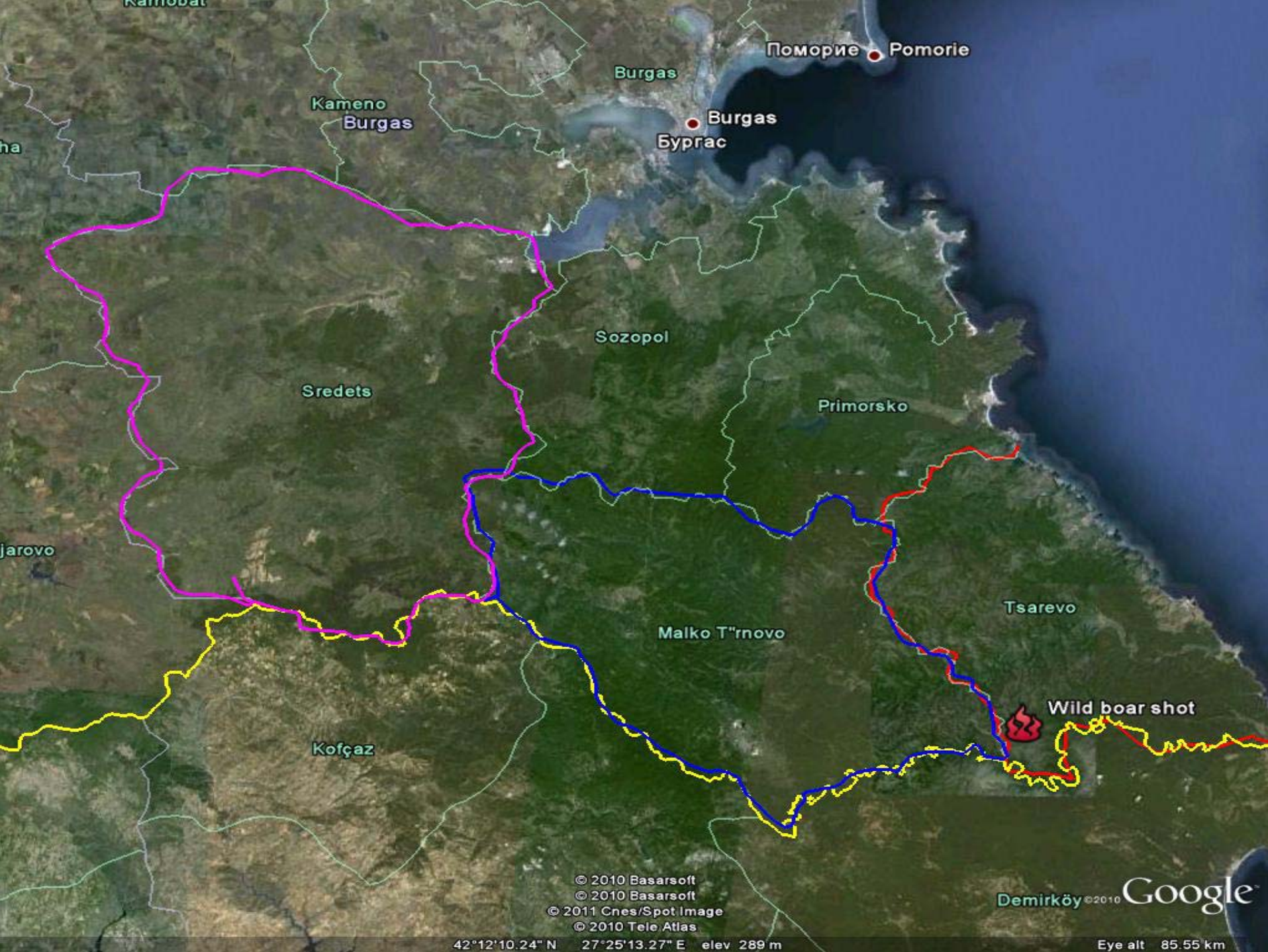


-  Annex I
-  Annex II
-  Additional regions with the same conditions as Annex II



Measures for the rest of the country

- Order PD 11-26/10.01.2011 of the CVO:
 - All the rest RVS to be with raised epizootic awareness;
 - clinical examinations for FMD;
 - defining of diagnostic teams;
 - Regional and municipal epizootic commissions to be carried out;
 - Enforced control on animal markets;
 - control on the health status of susceptible wild game by the forestry organisations;
 - the disinfection technic to be prepared;
 - the bio-security measures to be enforced.



Поморие Pomorie

Burgas

Burgas
Бургас

Kameno
Burgas

Sozopol

Primorsko

Sredets

Tsarevo

Malko T'rnovo

Wild boar shot

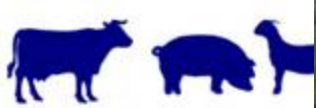
Kofçaz

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Demirköy ©2010 Google

42°12'10.24" N 27°25'13.27" E elev 289 m

Eye alt 85.55 km



Tsarevo municipality

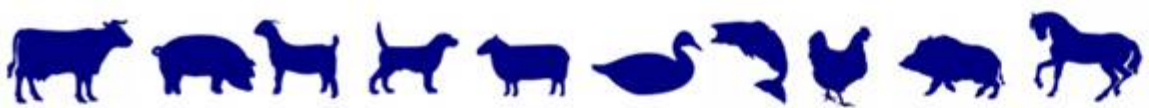
- Samples tested with neg. results
- Negative but not all results ready
- FMD positives



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42°06'36.05" N 27°49'06.54" E elev 257 m Eye alt 56.83 km



settlement	species	present	sampled	positive
Brodilovo	bovines	5	5	0
	sheep	108	93	0
	goats	103	83	0
	pigs	33	18	0
Sinemorets	bovines	13	13	0
	sheep	180	122	0
	goats	80	63	0
	pigs	9	9	0
Rezovo	bovines	65	22	0
	sheep	49	33	0
	goats	8	3	0
	pigs	33	-	0
Balgari	bovines	0	0	0
	sheep	12	12	0
	goats	40	40	0
	pigs	0	0	0
Kondolovo	bovines	0	0	0
	sheep	37	37	0
	goats	38	38	0
	pigs	0	0	0
Ahtopol	bovines	23	23	0
	sheep	110	110	0
	goats	0	0	0
	pigs	1	1	0

Tsarevo municipality

settlement	species	present	sampled	positive
Kosti	bovines	194	121	1
	sheep	117	117	14
	goats	149	149	12
	pigs	72	22	8

- On 10 & 11th Jan blood samples taken from:**
- Tsarevo (25 bovines, 186 sheep, 78 goats)
 - Varvara (27 bovines, 79 sheep, 15 goats)
 - Lozenets (175 sheep and 112 goats, 22 bovines and 6 pigs)
 - Velika – 44 bovines, 26 sheep, 21 goats

Waiting for results

11th Jan – end of sampling, all settlements covered

FMD positives:
14 sheep
12 goats
3 pigs

FMD positives:
1 bovine
5 pigs

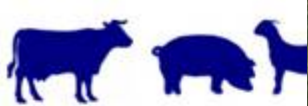
Kosti
Кости

- The bovines are for meat production
- The products from susceptible animals are used only for own consumption within the territory of the village

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Image © 2011 DigitalGlobe
© 2010 Tele Atlas

Imagery Date: Mar 2, 2003

42°03'32.33" N 27°46'35.31" E elev 2



Malko Tarnovo

- Samples tested with neg. results
- Negative but not all results ready
- Samples to be taken
- FMD positives



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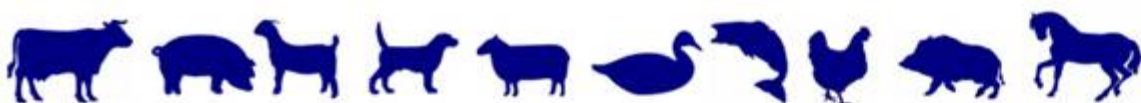
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42°04'15.17" N 27°35'20.32" E elev 175 m

© 2010 Google

Eye alt 56.83 km



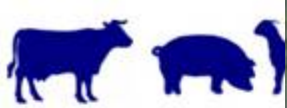
Malko Tarnovo municipality

Samples taken till 9th Jan

settlement	species	present	sampled	positive
Malko Tarnovo	bovines	56	54	0
	sheep	500	289	0
	goats	185	76	?
	pigs	47	35	?
Stoilovo	sheep	58	58	0
	goats	56	28	0
	pigs	15	5	0
Slivarovo	bovines	0	0	0
	sheep	37	37	0
	goats	33	33	0
	pigs	2	2	0
Brashlian	bovines	4	4	0
Gramatikovo	bovines	1	1	0
	sheep	64	64	0
	goats	71	71	0

Samples taken on 10th and 11th Jan

settlement	species	present	sampled	positive
Biala voda	bovines	8	8	?
	goats	44	44	?
	pigs	13	13	?
Vizitsa	bovines	29	29	?
	sheep	107	107	?
	goats	4	4	?
Zabrenovo	bovines	24	24	?
	sheep	107	107	?
	goats	4	4	?
Mladejko	goats	33	33	?
	bovines	18	18	?
	sheep	64	64	?
Bliznak	goats	38	38	?
	pigs	2	2	?
	bovines	18	18	?



Sredets

- Samples tested with neg. results
- Negative but not all results ready
- Samples to be taken

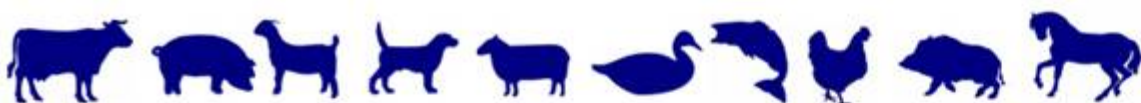


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42°15'03.42" N 27°09'40.81" E elev 200 m

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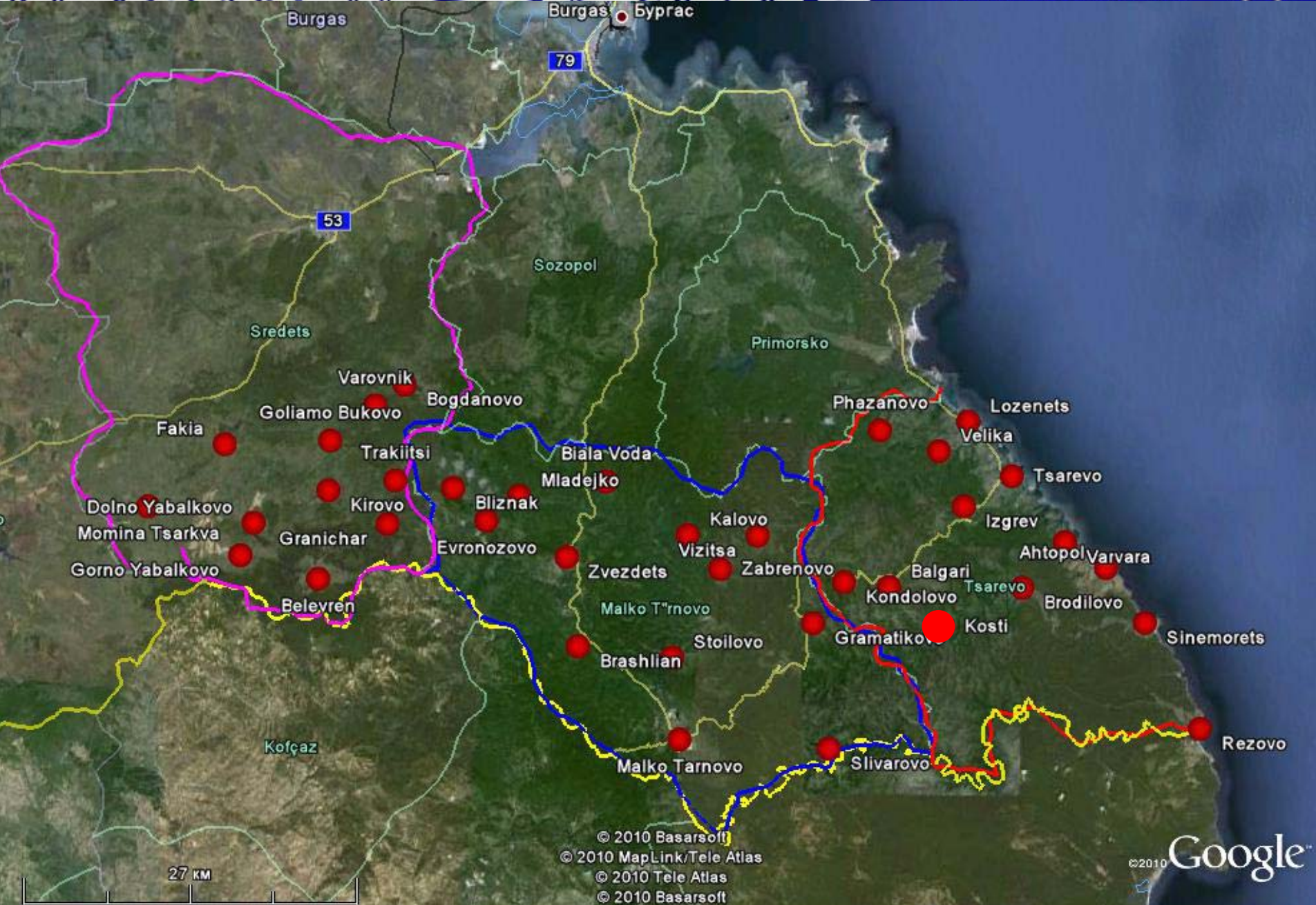
Eye alt 46.50 km



Sredets municipality

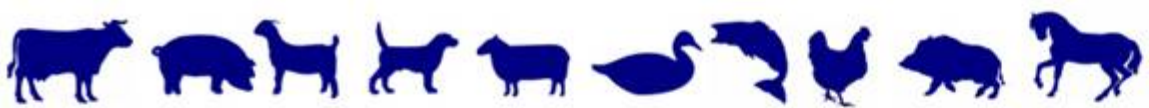
settlement	species	present	sampled	positive
Belevren	bovines	64	48	0
	sheep	0	0	0
	goats	7	7	0
	pigs	0	0	0
Granichar	bovines	120	50	0
Gorno Yabalkovo	bovines	64	54	0
	sheep	358	216	0
	goats	38	20	0
Dolno Yabalkovo	bovines	37	31	0
	sheep	22	18	0
	goats	161	144	0
Momina Tsarkva	bovines	82	82	?
	sheep	232	232	?
	goats	133	133	?
Fakia	bovines	121	121	?
	sheep	202	202	?
	goats	206	206	?

settlement	species	present	sampled	positive
Trakiitsi	sheep	7	7	?
	goats	47	47	?
Kirovo	bovines	37	37	?
Varovnik	bovines	92	92	?

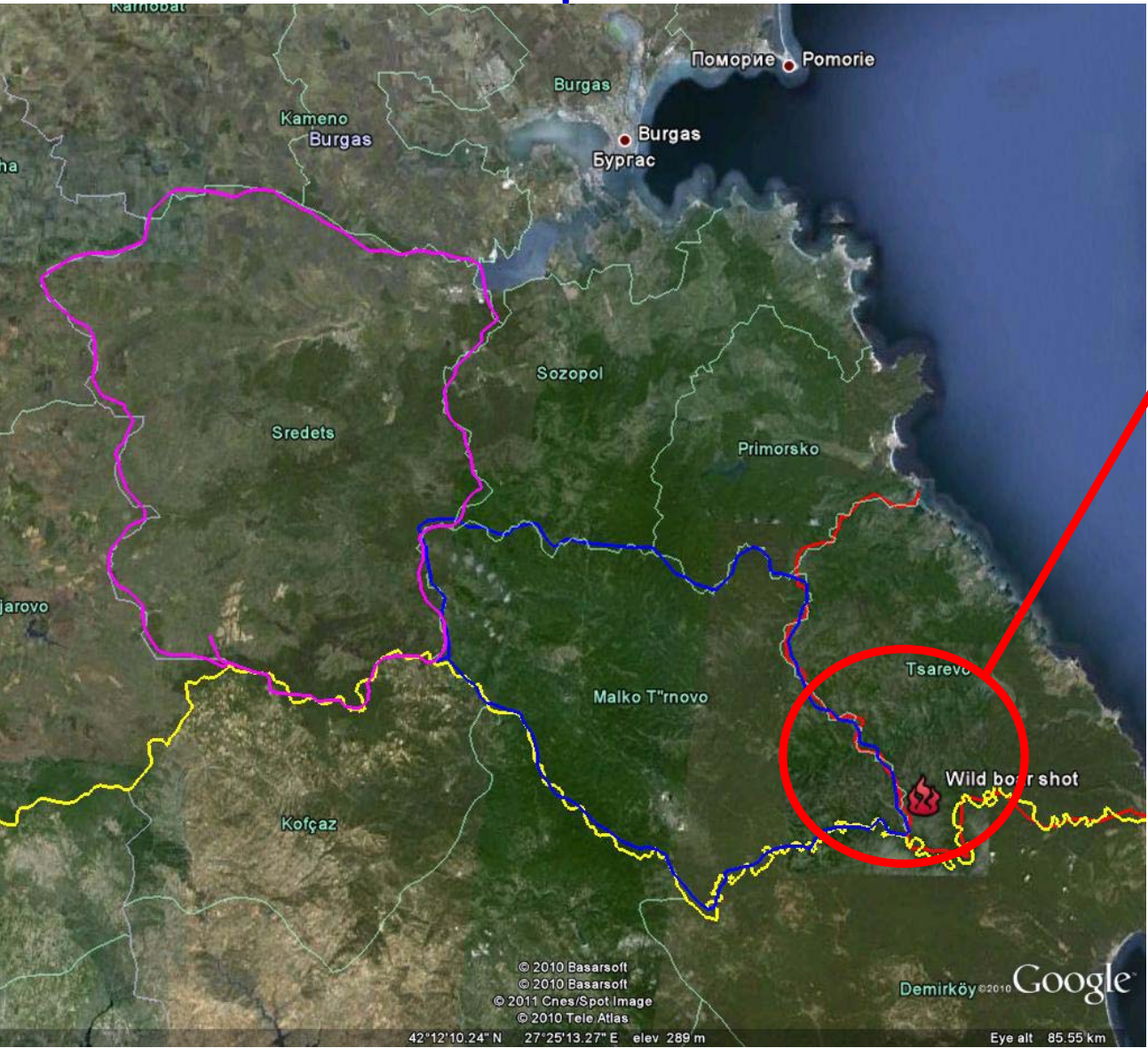


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The wild susceptible animals in the affected area

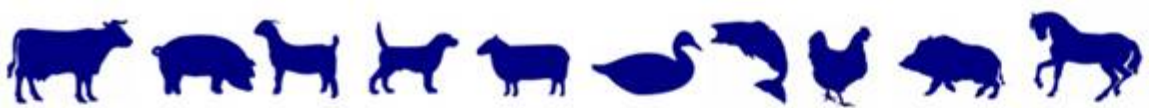


Area of Kosti

Spring counting of 2010:

- Cervus elaphus – 28
- Capreolus Capreolus -148
- Wild boar – 138

Shot during hunting season 2010 – 2011: 103 wild boar



Questions?