



Ticks of Türkiye



Zati VATANSEVER

1-Kafkas University, Faculty of Veterinary Medicine, Dept. of Parasitology,
2-Kafkas University Life Sciences and Tecnology Implication and Research Center
Kars, Türkiye



Kafkas University, Kars, Turkey

- 20 000 students
- 12 Faculties, 13 vocational schools



Faculty of Veterinary Medicine & Life Sciences and Technology Research Centre



Zati Vatansever,
DVM, PhD



Ahmet Deniz,
DVM, PhD



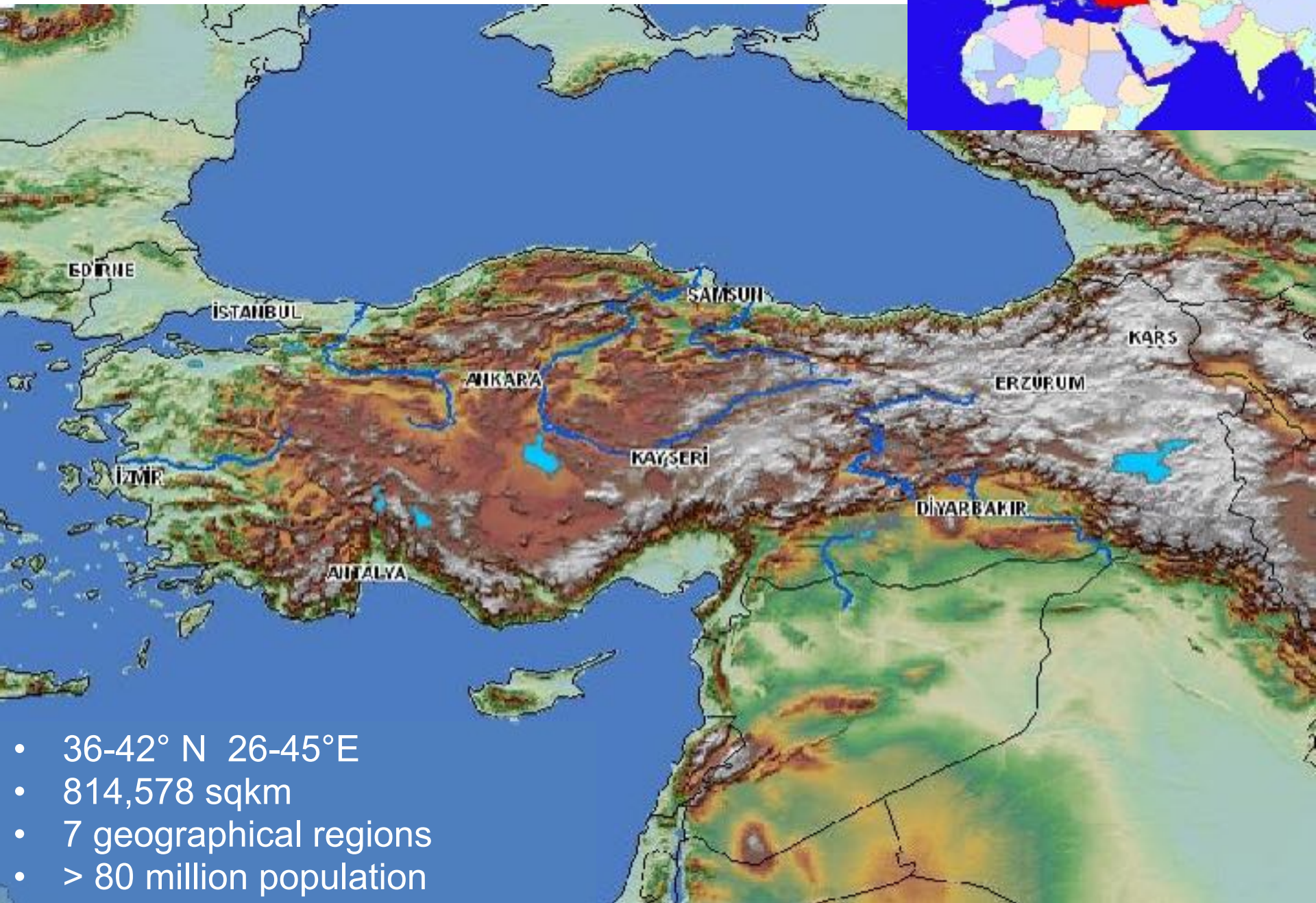
Barış Yıldız,
BSc, PhD



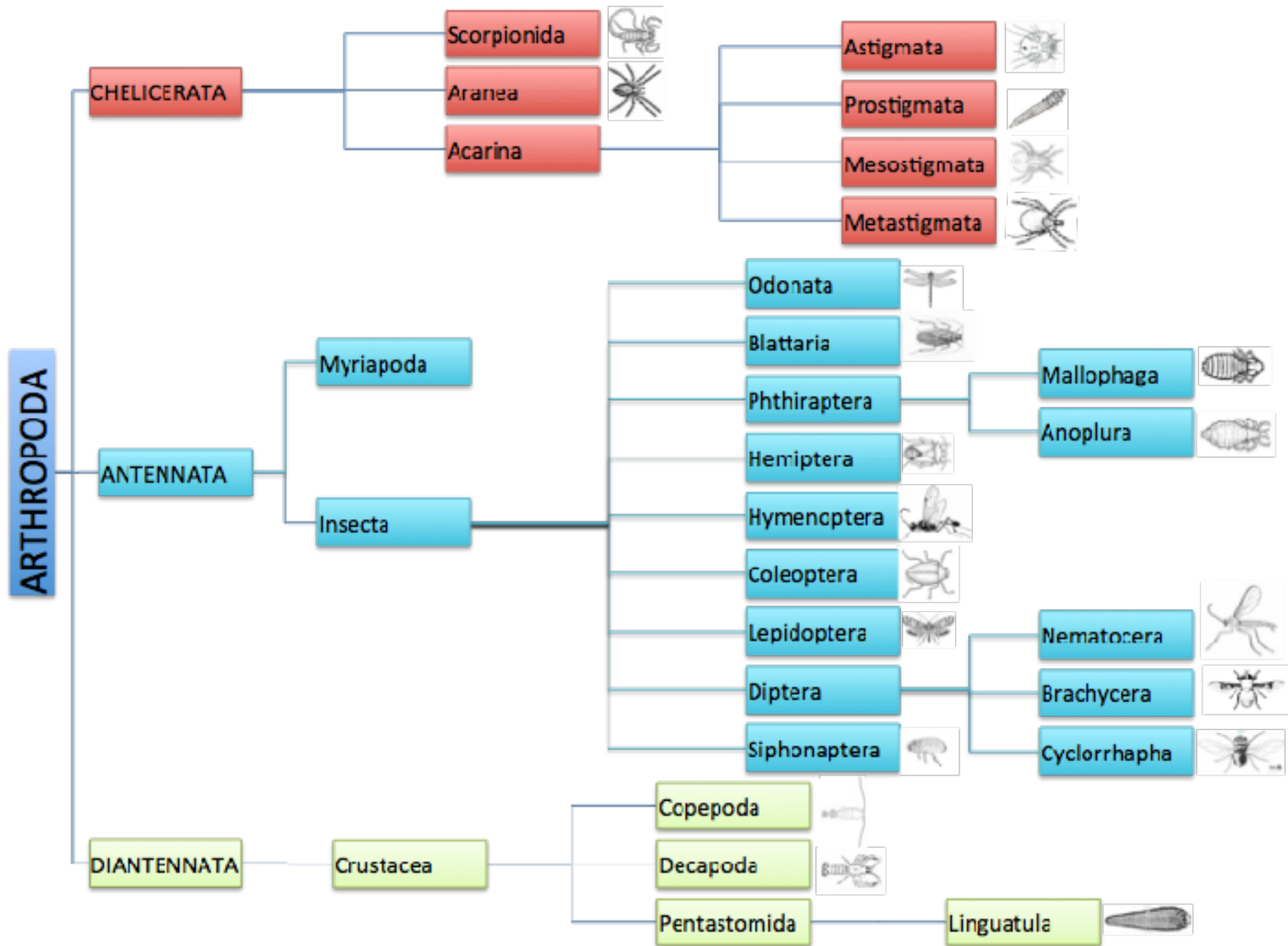
Mesut Yiğit,
DVM

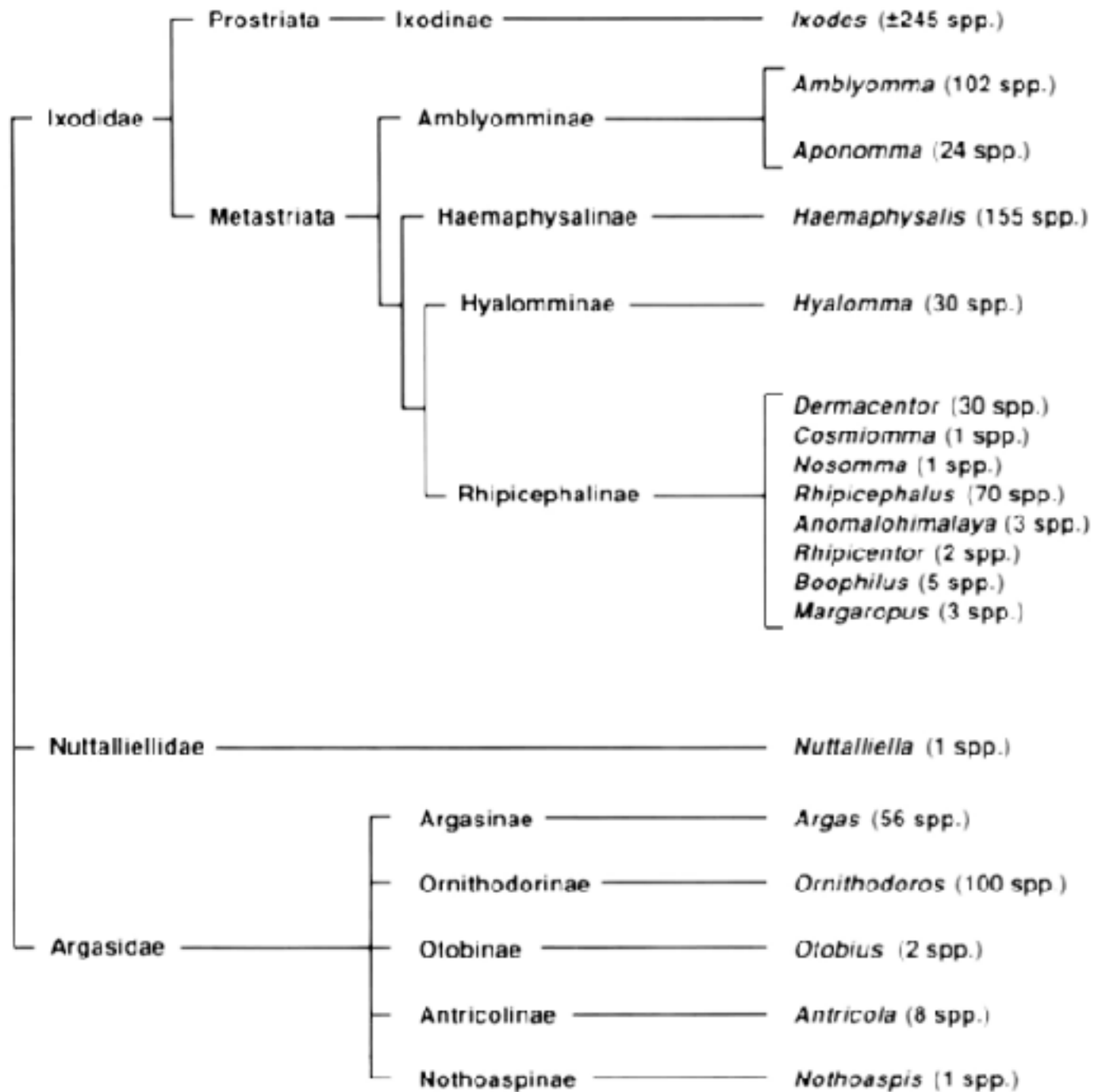


Türkiye



- 36-42° N 26-45° E
- 814,578 sqkm
- 7 geographical regions
- > 80 million population





Ticks of Türkiye

- >50 direct/indirect studies
- >50 tick species belonging to

—Ixodidae

- Rhipicephalus
- Boophilus
- Hyalomma
- Haemaphysalis
- Dermacentor
- Ixodes
- Amblyomma*

—Argasidae

- Argas
- Ornithodoros
- Otobius



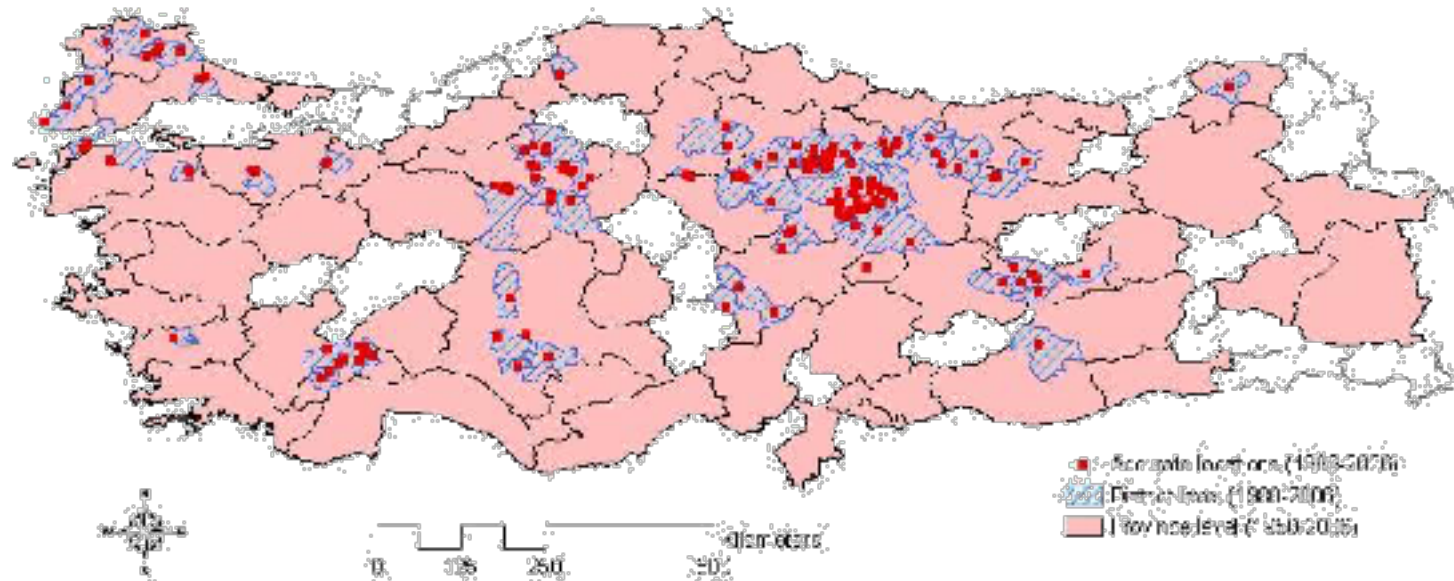
Rhipicephalus spp.

► Common species

- *R. bursa*
- *R. sanguineus* sI*
- *R. turanicus*

► Rare species

- *R. rossicus*

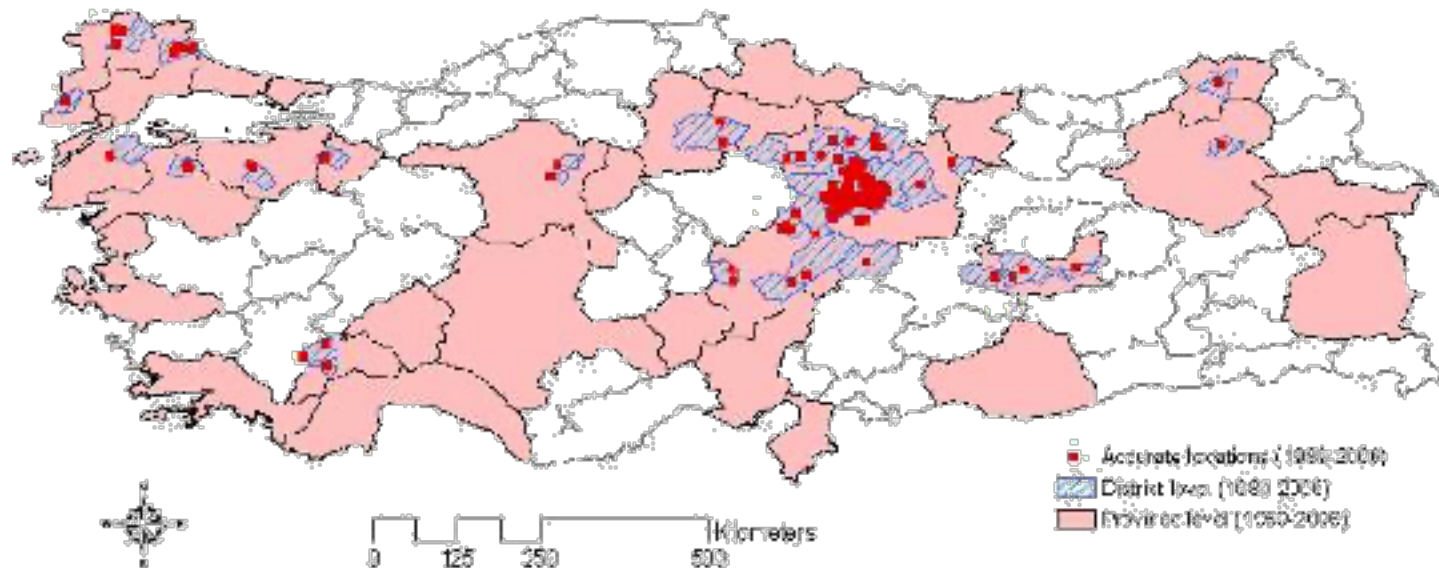


Rhipicephalus (Boophilus)

- ▶ Common species
 - *Rh.(B.) annulatus*
- ▶ Rare species
 - *Rh. (B.) kohlsi* (Individual reports)



Boophilus spp. distribution in Turkey



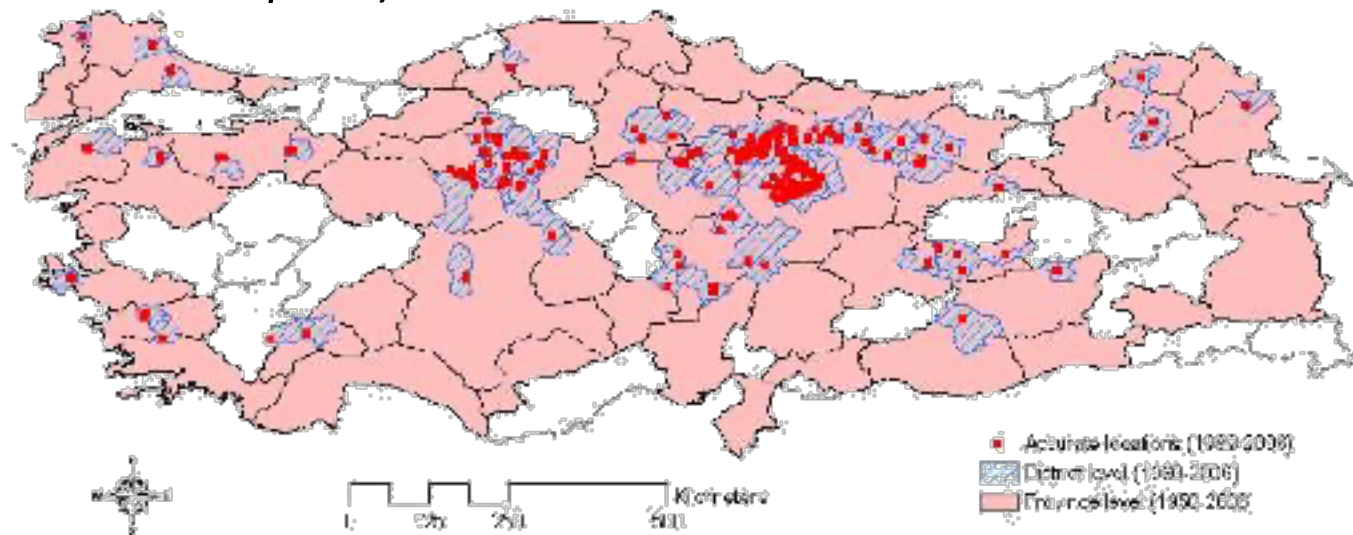
Hyalomma spp.

► Common species

- *H. marginatum*
- *H. excavatum*
- *H. anatolicum**
- *H. scupense (detritum)**
- *H. aegyptium* (common on tortoise)

► Rare species

- *H. asiaticum*
- *H. rufipes* (individual reports)
- *H. dromedarii* (individual reports)



Haemaphysalis spp. (important but neglected)

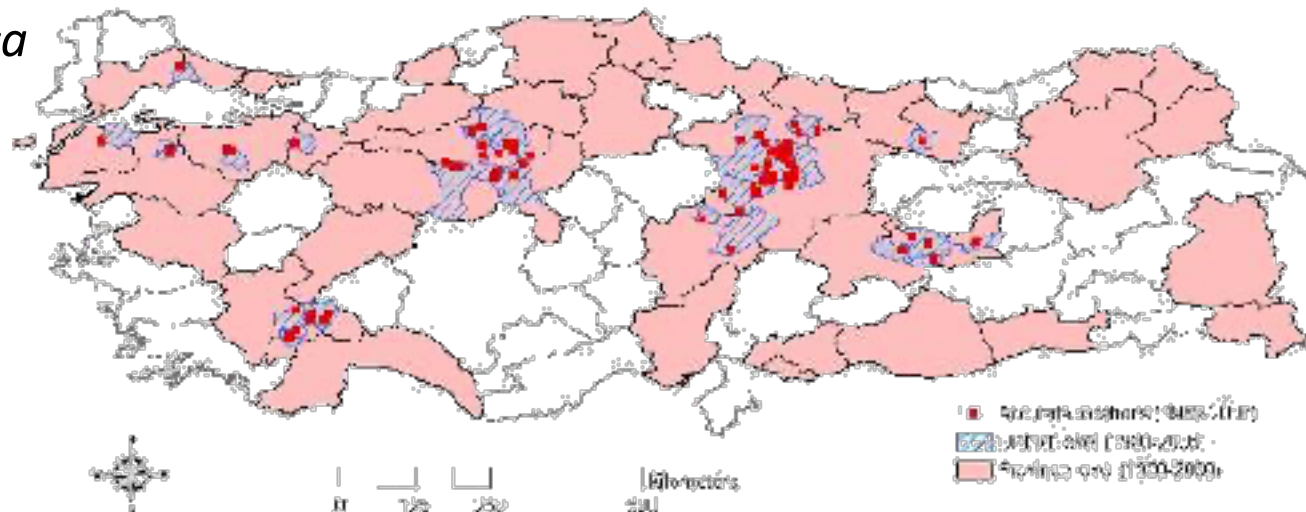
▶ Common species

- *Hae. parva*
- *Hae. sulcata*
- *Hae. punctata*
- *Hae. erinacei*
- *Hae. concinna*
- *Hae. inermis*



▶ Rare species

- *Hae. kopethdagica*



Ixodes spp.



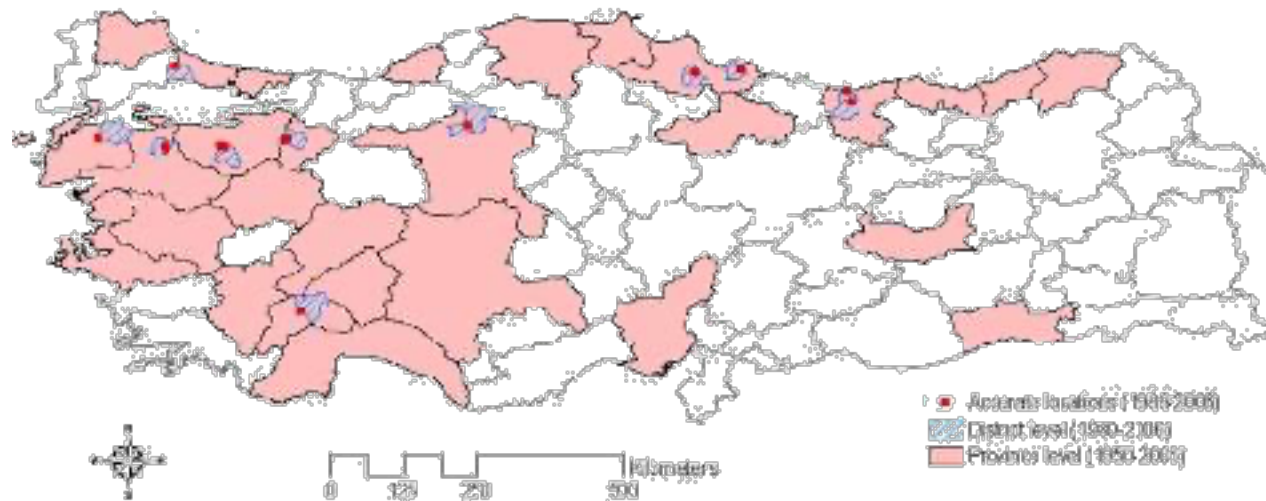
▶ Common species

- *I. ricinus*

▶ Rare species

- *I. laguri* (field mouse, squarrel)
- *I. frontalis* (partridge)
- *I. hexagonus* (hare, fox)
- *I. vespertilionis* (bats)
- *I. acuminatus*
- *I. redikorzevi*
- *I. kaiseri*

Ixodes spp. distribution in Turkey



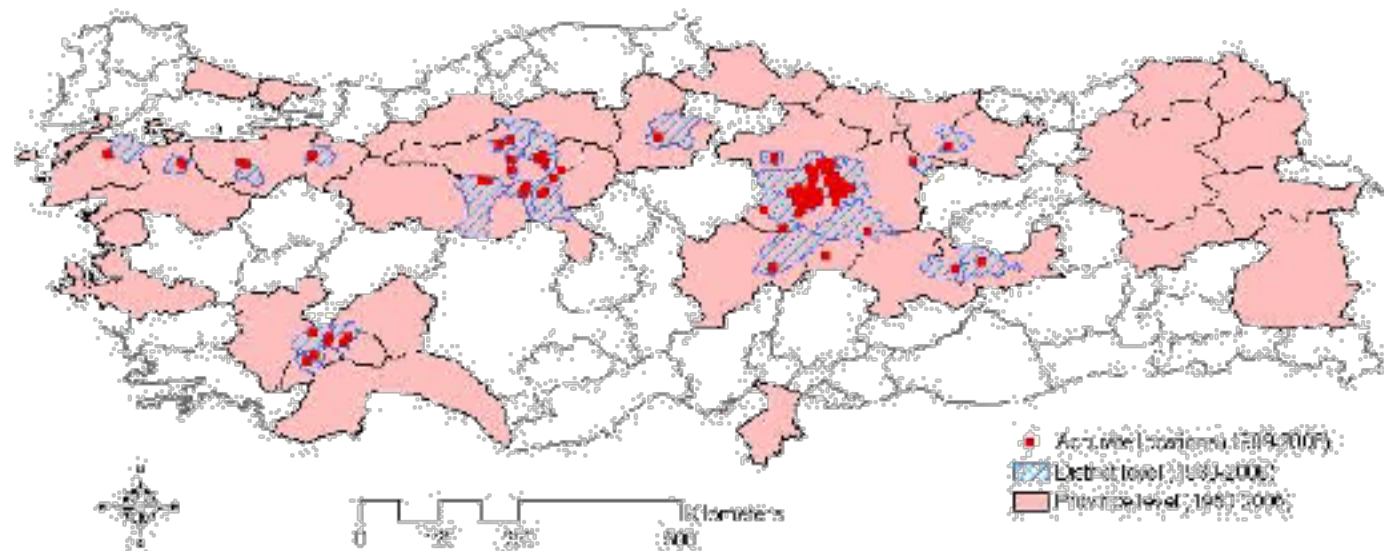
Dermacentor spp.

► Common species

- *D. marginatus*
- *D. reticulatus*

► Rare species

- *D. raskemensis*



Argasidae

▶ Argas

- *A.percicus* (common)
- *A.reflexus* (Individual reports)
- *A.vespertilionis* (Individual reports on baths)

▶ Ornithodoros

- *O.lahorensis* (common)
- *O.tholozani* (single report)
- *O.coniceps* (single report)

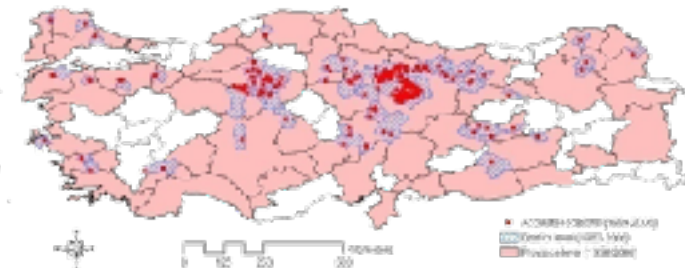
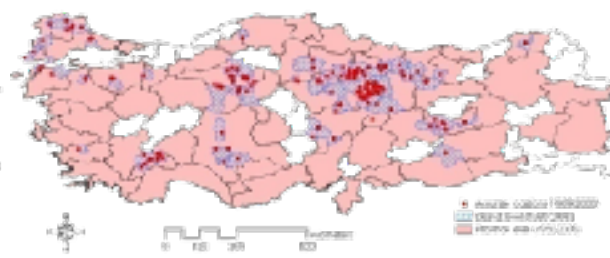
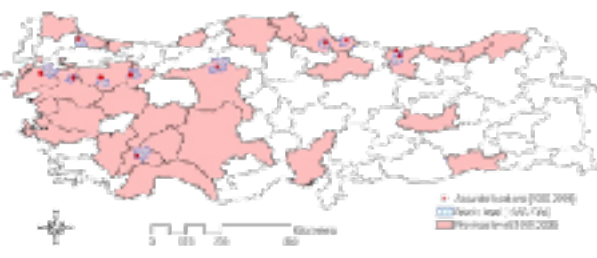
▶ Otobius

- *O. megnini* (common in the East)





<i>Ixodes ricinus</i> <i>Ix. hexagonus</i> <i>Ix. accuminatus</i> <i>Ix. gibbosus</i>	<i>Rhipicephalus bursa</i> <i>Rh. sanguineus</i> <i>Rh. turanicus</i>	<i>Hyalomma anatolicum</i> <i>H. excavatum</i> <i>H. marginatum</i> <i>H. scupense (detritum)</i>
3 host ticks domesti and wild animals, birds	2 or 3 host ticks domestic and wild animals	2 or 3 host ticks domestic and wild animals, birds
Widespread in humid forested areas (North)	Widespread	Widespread in arid/steppe areas
<i>TBEv</i> <i>Borelia burgdorferi</i> sl (Lyme), Louping ill <u><i>Babesia divergens</i></u> <i>Rickettsia helvetica</i> <i>Anaplasma phagocytophilum</i>	<i>Rickettsia conorii</i> , <i>Rickettsia massiliae</i> <i>Babesia ovis</i> , <i>B.bigemina</i> <i>Anaplasma marginale</i> , <i>A.ovis</i> <i>Ehrlichia canis</i> , <i>Babesia vogeli</i> <i>Hepatozoon canis</i>	<i>Theileria annulata</i> , <i>T. lestoquardi</i> <i>T.equi</i> <i>B. occultans</i> <i>CCHF</i> <i>Rickettsia aeschlimannii</i>





<i>Dermacentor marginatus</i> <i>D. reticulatus</i>	<i>Haemaphysalis parva</i> <i>Hae. sulcata</i> <i>Hae. punctata</i> <i>Hae. inermis, Hae. concinna</i>	<i>Ornithodoros lahorensis</i> <i>Argas persicus</i> <i>Argas reflexus</i> <i>Otobius megnini</i>
3 host ticks Domestic and wild animals	3 host ticks Domestic and wild animals, birds	multihost
Widespread (early spring, late autumn)	Widespread (early spring, late autumn)	endophilic
<i>Theileria equi, Babesia caballi</i> <i>B. ovis, B. canis</i> <i>Rickettsia slovaca (TIBOLA)</i> <i>R. sibirica</i>	<i>Babesia ovis, B. major, B. motasi, Theileria buffeli, T. ovis</i> <i>Rickettsia sibirica</i>	<i>Borrelia spp. (Relapsing fever)</i>





Thank you