# MILES CULICOIDES

bluetongue disease

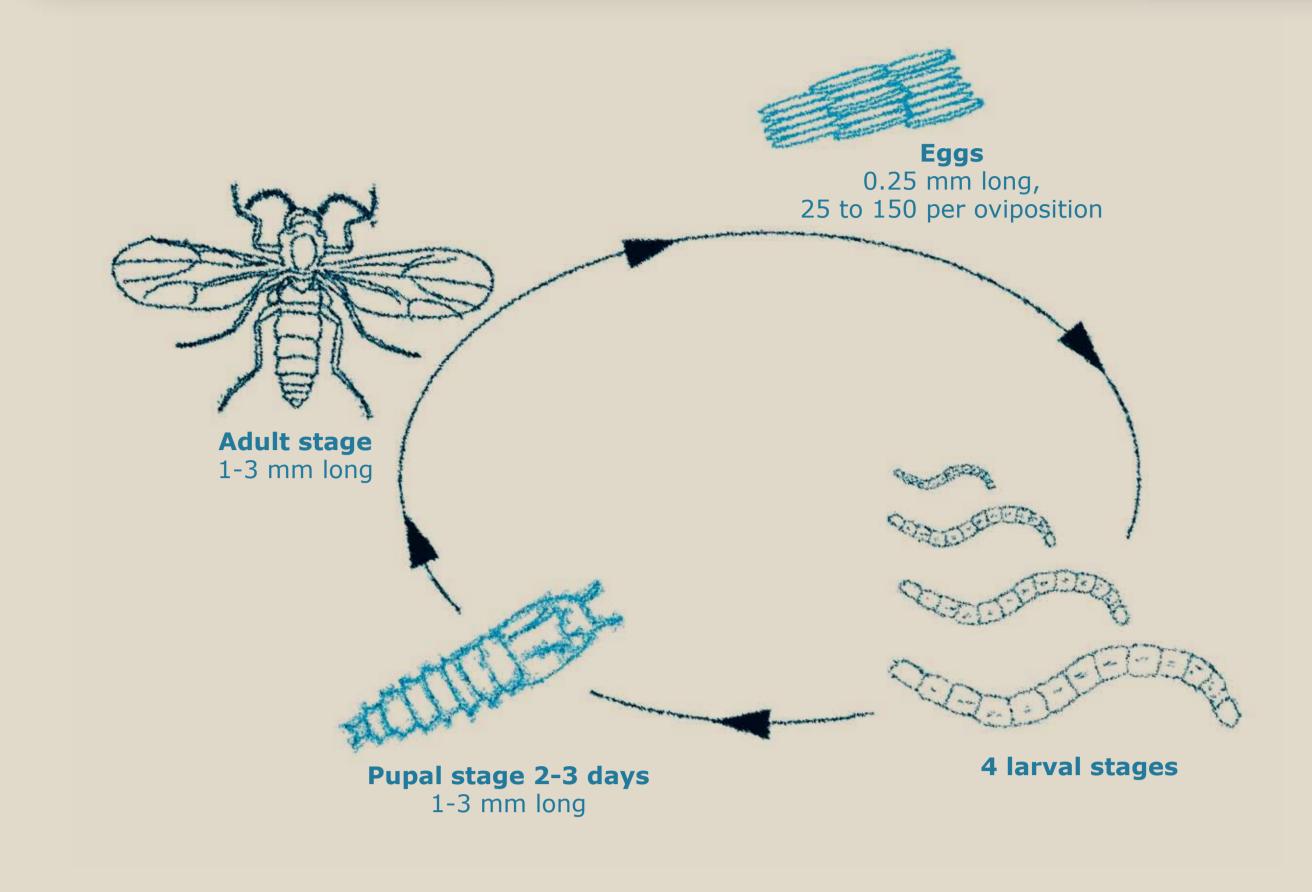


Longevity as a biting insect 20-30 days Special feature its bite is particularly painful

## Biology of the Vector

The female culicoid midge bites humans and animals to obtain the blood meal that is essential for maturation of her eggs. These are laid in moist and even Wet soil.

Several Stages follow hatching, from that of semi-aquatic larva to adult.



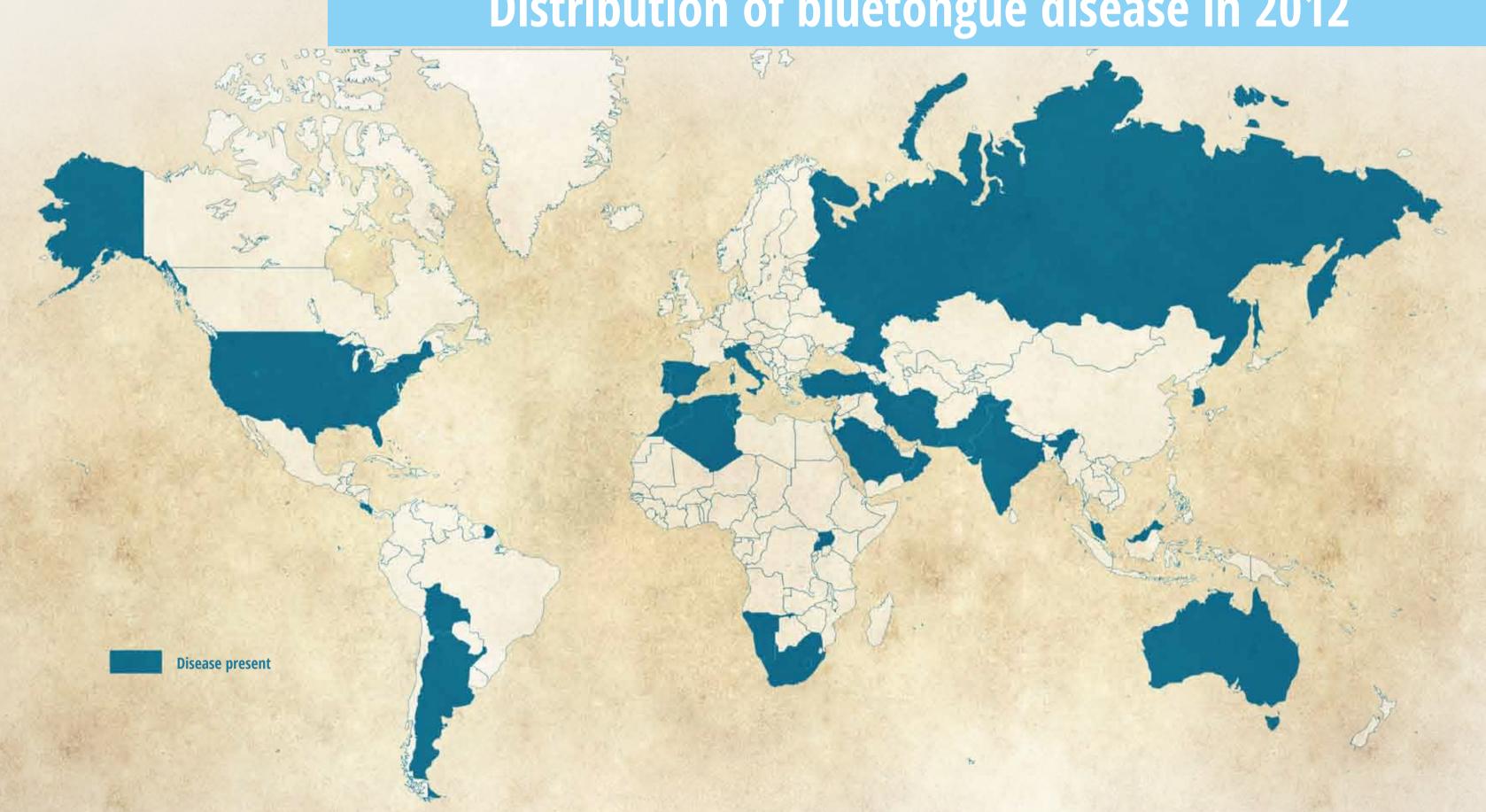






## Geographic distribution

Distribution of bluetongue disease in 2012



Culicoïdes are widely distributed in the world, but absent in Antarctica, New Zealand and Hawaii.

Nearly 1,400 different species

have been counted, with about 90 reported in France.

Scientists are discussing the possibility of recent colonisation of the Mediterranean basin by Culicoïdes imicola.

#### Vetter transmission



whence the common name of the disease.

**European flocks** and herds have been seriously affected since the 2000s. They are exposed to the recent introduction of **exotic Virus** that can also be transmitted by local species of Culicoides.



#### Prevention and control

Various preventive measures are proposed:

- Treat livestock with insecticide baths
- Keep livestock in stables as adult midges do not enter buildings very much
- Remove manure as it is propitious for Culicoides larvae
- Vaccinate livestock using the appropriate viral strain

and considerable impact on animal realtr











