

Monitoring of the invasive hornet *Vespa velutina* (Hymenoptera, Vespidae)

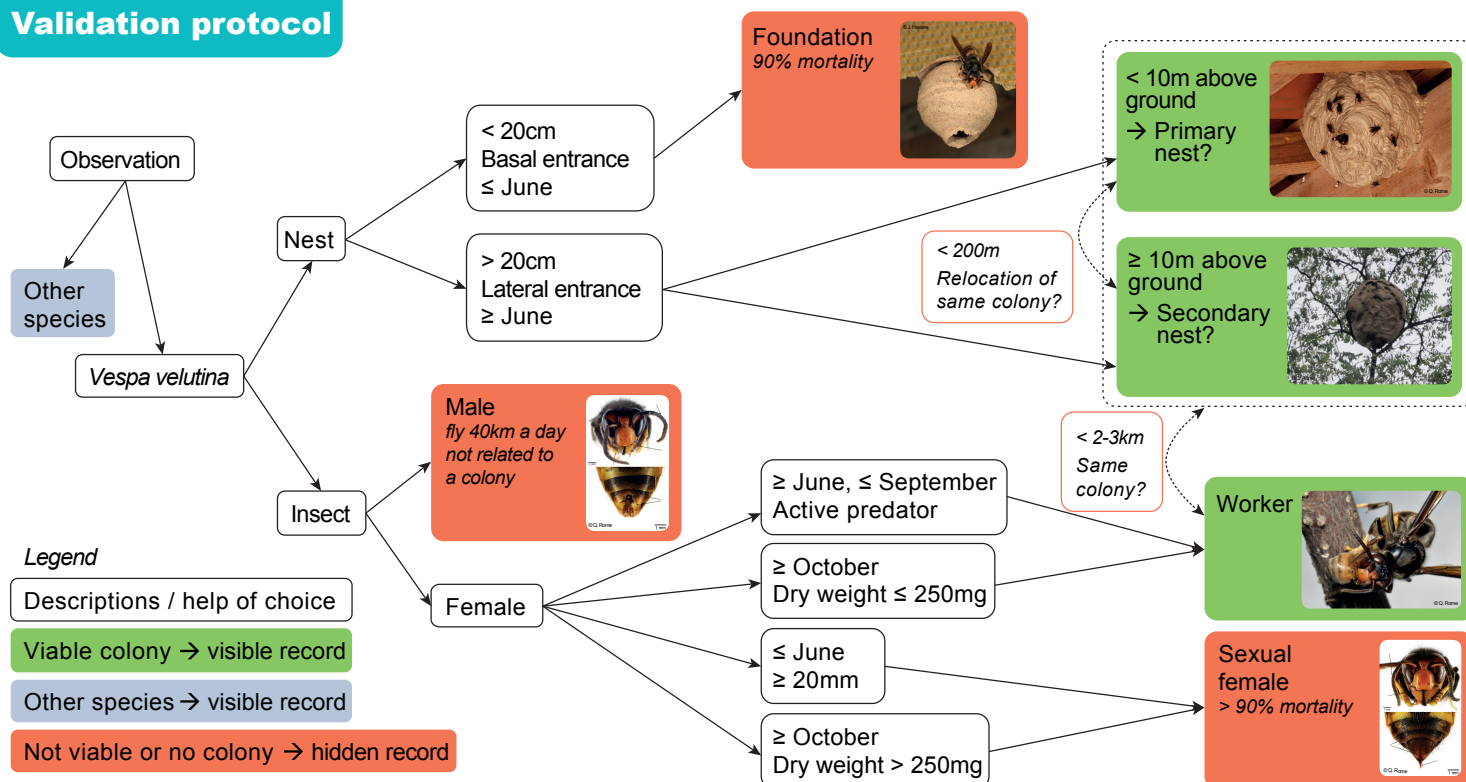
Quentin Rome^{1,2} & Claire Villemant²

(1) UMS 2006 Patrimoine Naturel – AFB, CNRS, MNHN, Muséum national d'Histoire naturelle, 57 rue Cuvier, CP50 F-75005, Paris, France
(2) ISYEB - UMR 7205 – CNRS, MNHN, UPMC, EPHE, Muséum national d'Histoire naturelle, Sorbonne Universités, 57 rue Cuvier, CP50 F-75005, Paris, France

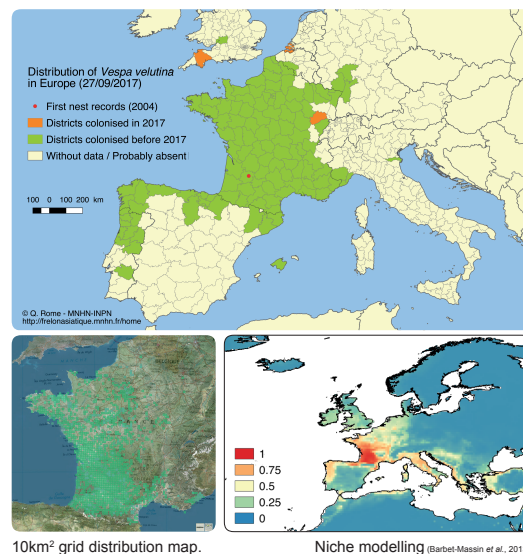
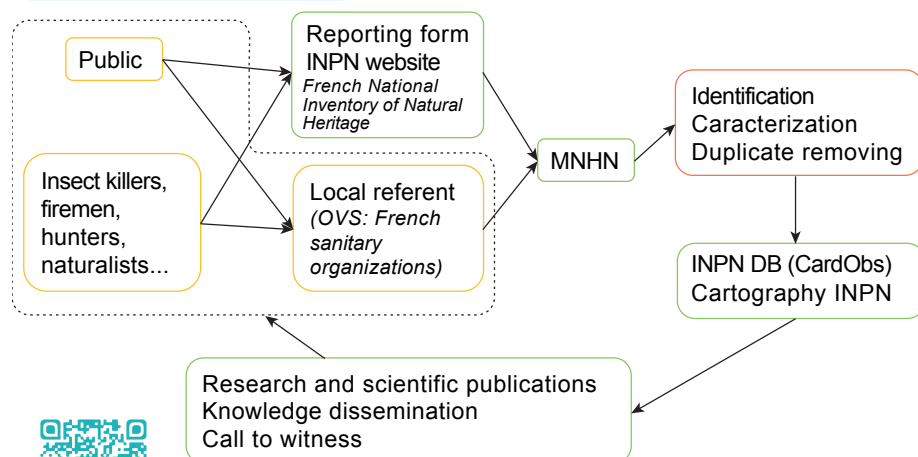
MNHN - INPN Website : <http://frelonasiatique.mnhn.fr/home> - vespa@mnhn.fr

The Yellow-legged hornet, *Vespa velutina nigrithorax*, originates from eastern temperate to subtropical zones of Asia (Villemant *et al.*, 2011); it was unintentionally introduced in France before 2004 by the importation of Chinese pottery for horticulture (Arca *et al.*, 2015). In France, the spread of *V. velutina* has been followed for twelve years using a monitoring protocol based on citizen warning and local networks: today, the hornet invasion extends in almost all French territory and reached the neighboring countries (Spain, Portugal, Italy, Germany, Belgium, Great Britain, Netherland), progressing at a rate of about 60km per year (Robinet *et al.*, 2016). We described here the monitoring data validation protocol used in the INPN database to reliably confirm the locations where *V. velutina* is able to establish. We also show how these presence data are used to make predictions on hornet expansion (Villemant *et al.*, 2011; Barbet-Massin *et al.*, 2013)

Validation protocol



Monitoring system



References

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