

Tree Health Update

Alan Ockenden - Tree Health Officer

Forestry Commission

Ips typographus







<https://twitter.com/RModlinger/status/1173505480825737223>

The main European host is *Picea abies* (Norway spruce), but other spruce and pine species are susceptible

Ips typographus is mainly a secondary pest, preferring stressed or weakened trees. However, under the right environmental conditions, beetle numbers can increase enough to result in attacks on living trees

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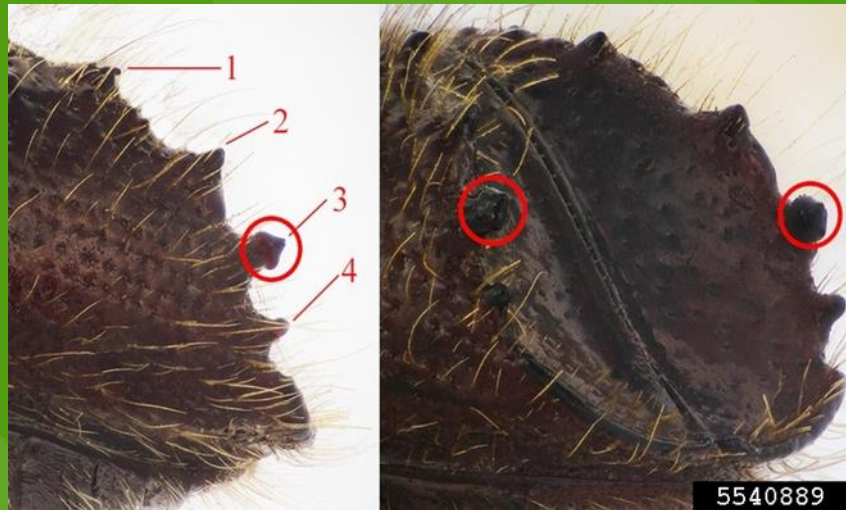
Source: Daniel Adam, Office National des Forêts, Bugwood.org



Source: Ben Jones, THT FCE



Source: Alan Ockenden, THT FCE



Source: Joseph Benzel, Screening Aids, USDA APHIS PPQ, Bugwood.org

- Male beetles fly in late spring to early summer when temperatures reach a minimum of *ca.* 17°C for 4 days in a row
- Volatile substances emitted from stressed host trees and guide the beetles to areas containing this suitable breeding material
- Male will bore a nuptial chamber and emit an aggregation pheromone to attract up to 3 or 4 females
- The first mated female bores a longitudinal maternal gallery towards the top of the tree and subsequent females will bore longitudinal galleries down the tree



Source: Alan Ockenden THT FC



- GB has Protected Zone status
 - What does this mean?
- Finding from a PZ billet trap in Kent late 2018
- Survey activity
 - 1km intensive – all spruce
 - 100km aerial survey for targeted inspections – 100+ sites identified and inspected in 5 week period
- Containment work on site complete, wider restrictions in place
- Further surveying and monitoring





OPM - 2019



KEY

	MID AUG - MID APRIL STAGE ONE: EGG
	MID APRIL - MID JULY STAGE TWO: CATERPILLAR
	MID JUNE - EARLY SEPT STAGE THREE: PUPA
	END JULY - LATE SEPT STAGE FOUR: MOTH



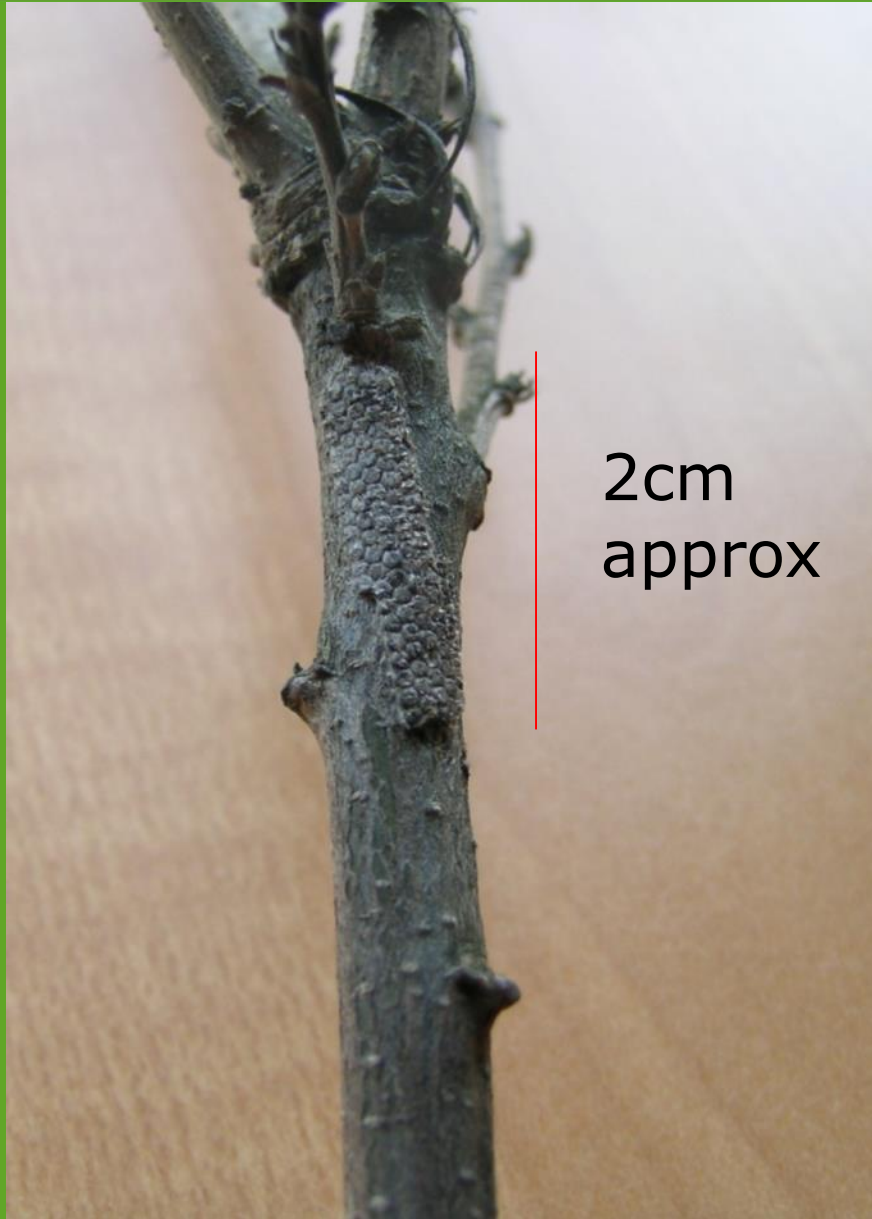


[forestry.gov.uk/opm](https://www.forestry.gov.uk/opm)

Spot it, report it, don't touch it !

Mark Townsend ©







Silken trail







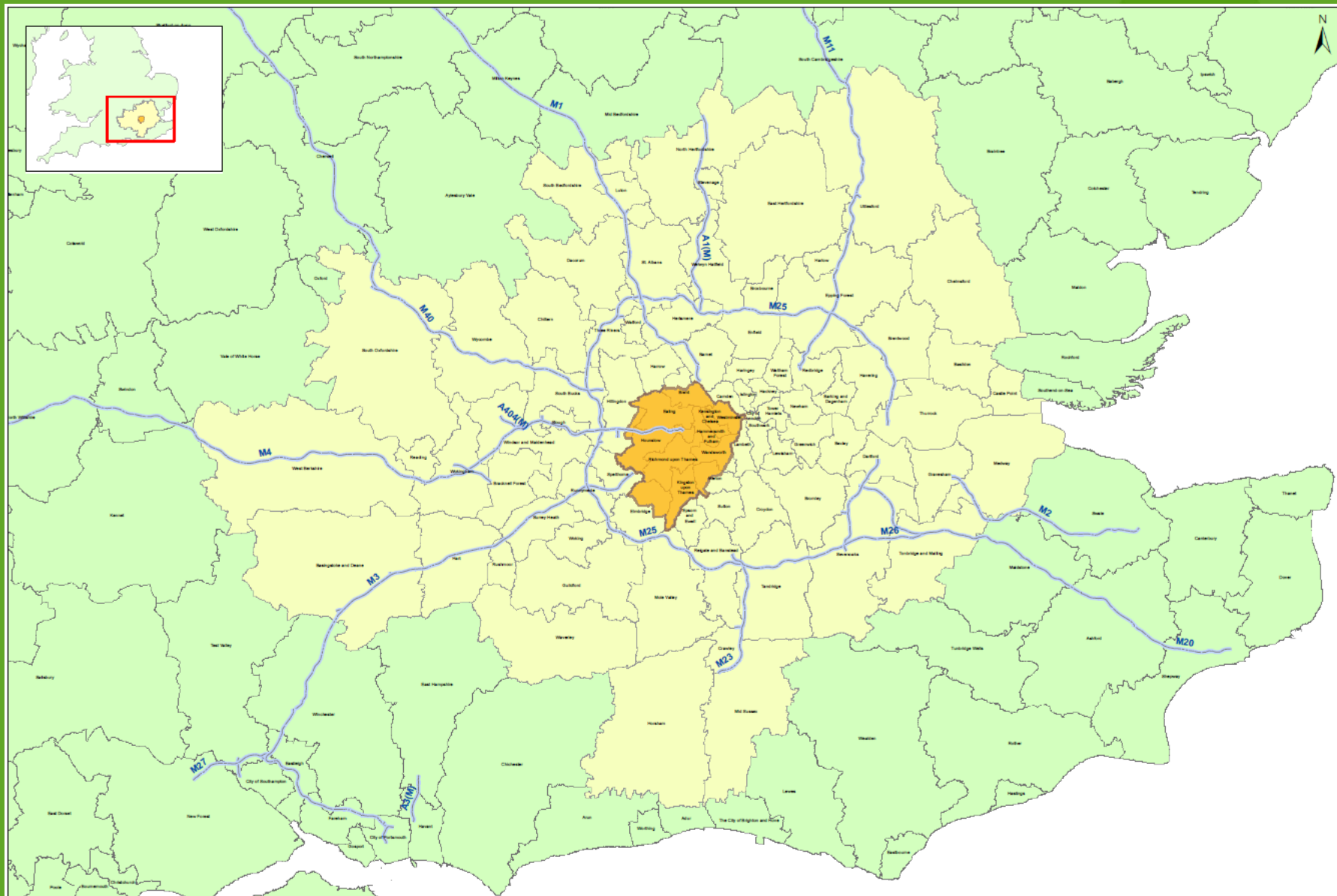
Public health: larval hairs



T. processionea
Larval urticating hairs
Average length 0.2mm

Public health - symptoms





0 10 20
km

2018 core zone Control or buffer zone Protected zone

OPM Management Zones 2018, revised May 2018

- Issue SPHN - outside core zone
- All oak trees from the recent planting year on site are sprayed with Delamethrin
- 24hrs latter all those oak trees are destroyed on site, easiest method is incineration
- Cost are met by the landowner



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Dutch
suppliers

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- Keep up to date
 - www.gov.uk/government/collections/tree-pests-and-diseases
 - www.gov.uk/guidance/prevent-the-introduction-and-spread-of-tree-pests-and-diseases
 - www.forestresearch.gov.uk
- www.gov.uk/guidance/prevent-the-introduction-and-spread-of-tree-pests-and-diseases
 - elearning – 5 free modules
- Report it – Tree Alert
 - <http://treealert.forestry.gov.uk>
- Twitter
 - @ForestryComm – plus quarterly Tree Health News email
 - @MickBiddleFC