

Background

- **Green Forest Hoverfly** *Caliprobola speciosa* (Rossi, 1790)
- specialist of ancient woodlands
- occurs in just 2 locations in UK, New Forest and Windsor Forest
- heavily dependent upon rotten Beech stumps for its larval habitat
- anecdotal evidence suggests that *C.* speciosa may have declined in recent years
- limited data (c. 150 records total from HRS/NBN)



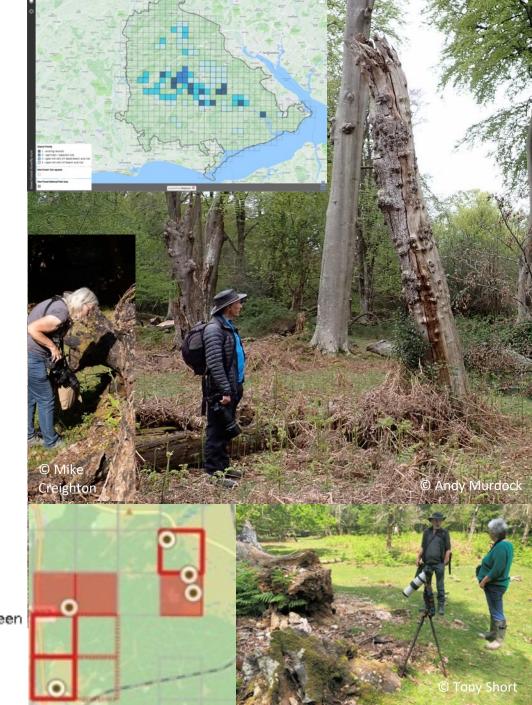
The Green Forest Hoverfly Hunt

- a team of volunteer (mostly amateur) naturalists searching for *Caliprobola speciosa* in the New Forest to help better understand its status.
- Despite extensive searching in 2022 we only found a single record (by Colin Easton), albeit at a new site and with only 4 other records that year
- Online mapping allowed us to gather locations and build a database of potential trees for further investigation



Surveys

- prioritisation map (inc. existing records, suitable trees, openness, ancient woodland)
- surveys: searches of 1km grid squares, 'stump vigils' and additional scoping
- a map was updated and used to track squares visited, locate 'priority' trees (on mobile) and any successes – all could see
- suggested targetted actions and adapted approach (Whatsapp)

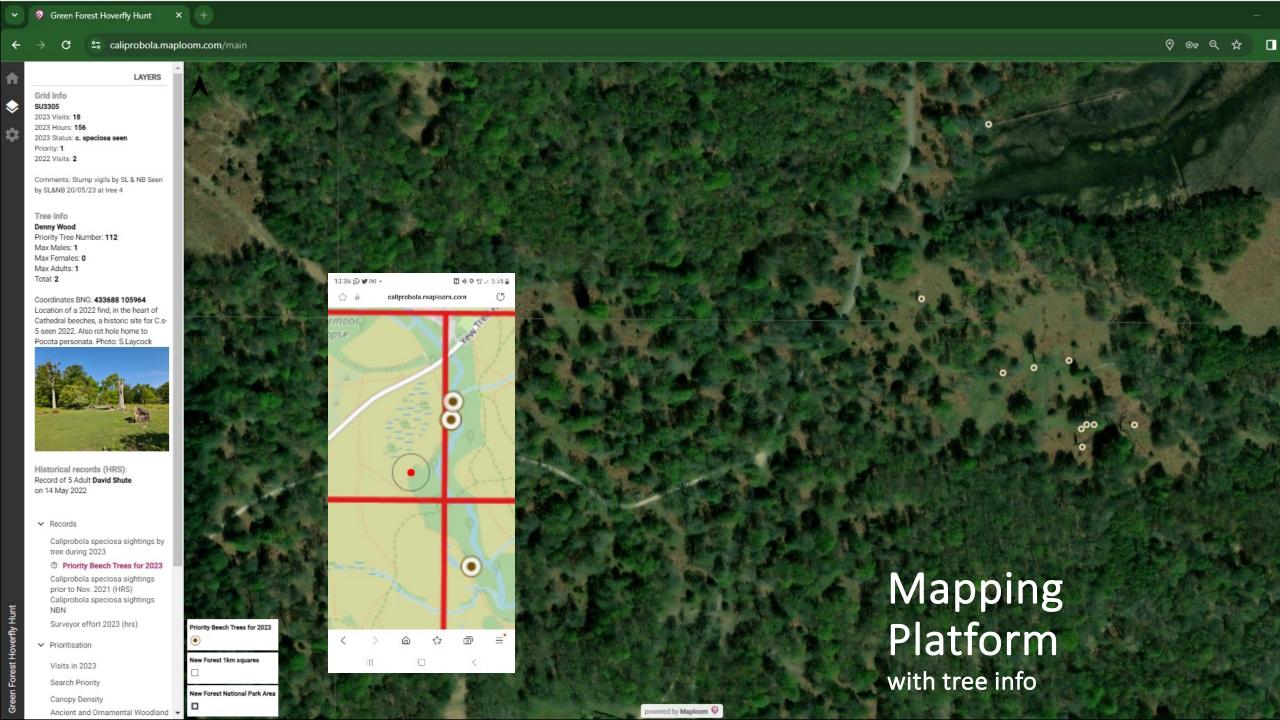


C. speciosa seen

Not visited

:: Planned

Visited



Results

- much better than expected
- 108 unique Green Forest Hoverfly records
- 7 records from outside the team
- 1 at Windsor Forest (Paul Brock)

Estimate 94 unique individuals seen in NF:

• Male 82

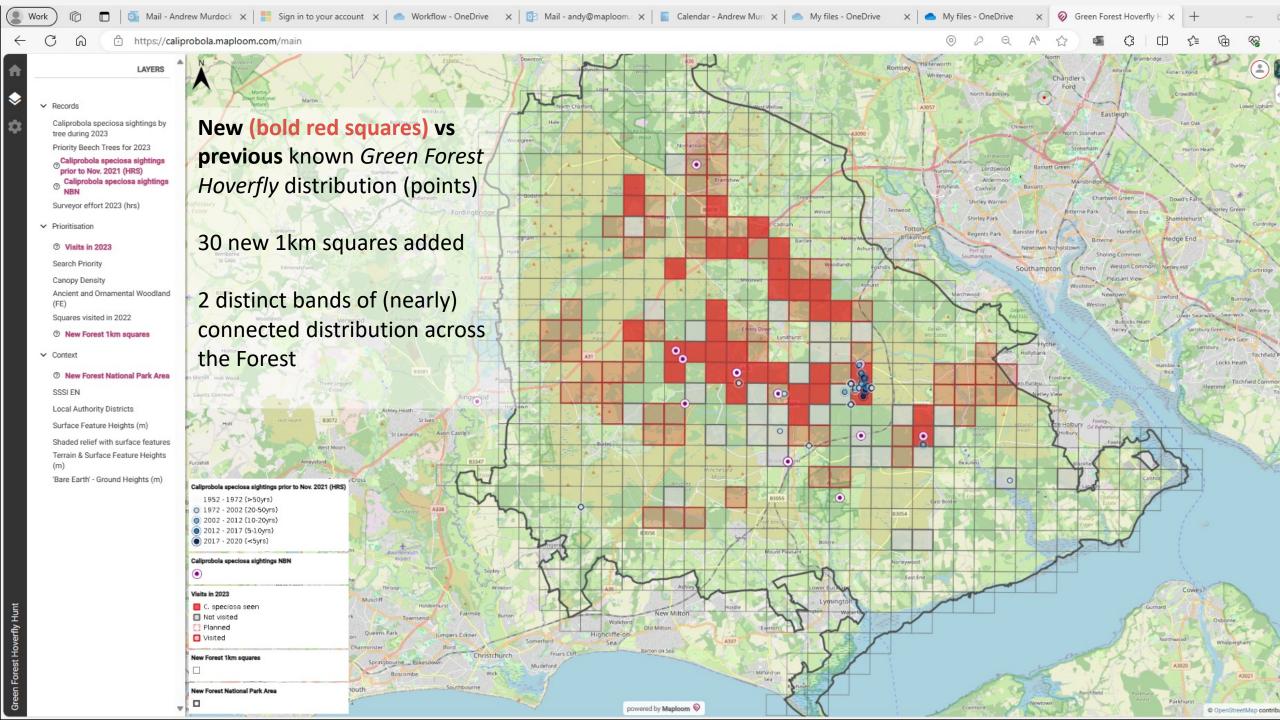
• Female 7

• Adult 5

Flight period: 13th May - 19th June

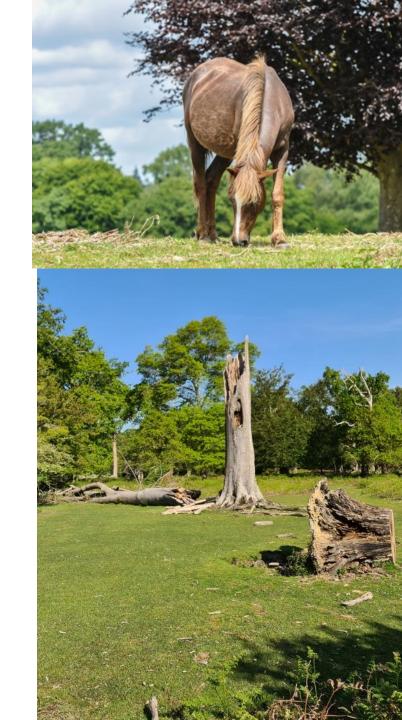
1,100 hours of volunteer time





Conclusions

- The Green Forest Hoverfly is more widespread and numerous than we thought and probably under-recorded
- It is part of a larger assemblage of insects and fungi that rely on decaying beech
- We expected to find it at other sites but couldn't and are not sure why at the moment
- Recent tree falls should ensure good supply of fresh decaying timber for next 50 years or so
- Replacement with new young beech is less certain
- Longer term prognosis for beech is not so good with more climate change induced droughts and beech decline predicted
- No obvious areas for it to move to



Plans for 2024

- find new sites
- mark-release-recapture pilot study
- detailed habitat characterization
- experiments with holly management with FE
- DNA barcoding of Green Forest Hoverfly (via 'Darwin Tree of Life'). How closely related is UK population to continental ones and potential genetic bottleneck?
- evaluation of long-term supply of beech, recruitment of new saplings / grazing impacts
- temperature and the timing of emergence / appearance of Green **Forest Hoverflies**









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With thanks to

Supported by

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Get involved

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