

# Arundel By-Pass – Preliminary Bat Radio-tracking results

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14/12/2017



# Summary

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Bat ecology

Survey findings

DCO/legislative compliance

Risks to each option

Licencing solutions and further work

Mitigation design and delivery – Green bridges, roost provision, lighting, culverts

Risks to the programme

Questions

# Bat ecology

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There are 17 species of bat that live and breed in the UK

Bats are nocturnal and roost during the daytime

All UK bats hibernate during the winter

Bats give birth in summer, usually to a single pup

Bats can use a variety of natural and built structures for roosting throughout the year including trees, buildings, bridges and underground sites such as caves and tunnels

All UK bats feed on insects, which they catch using echolocation



# Bat surveys undertaken in 2017

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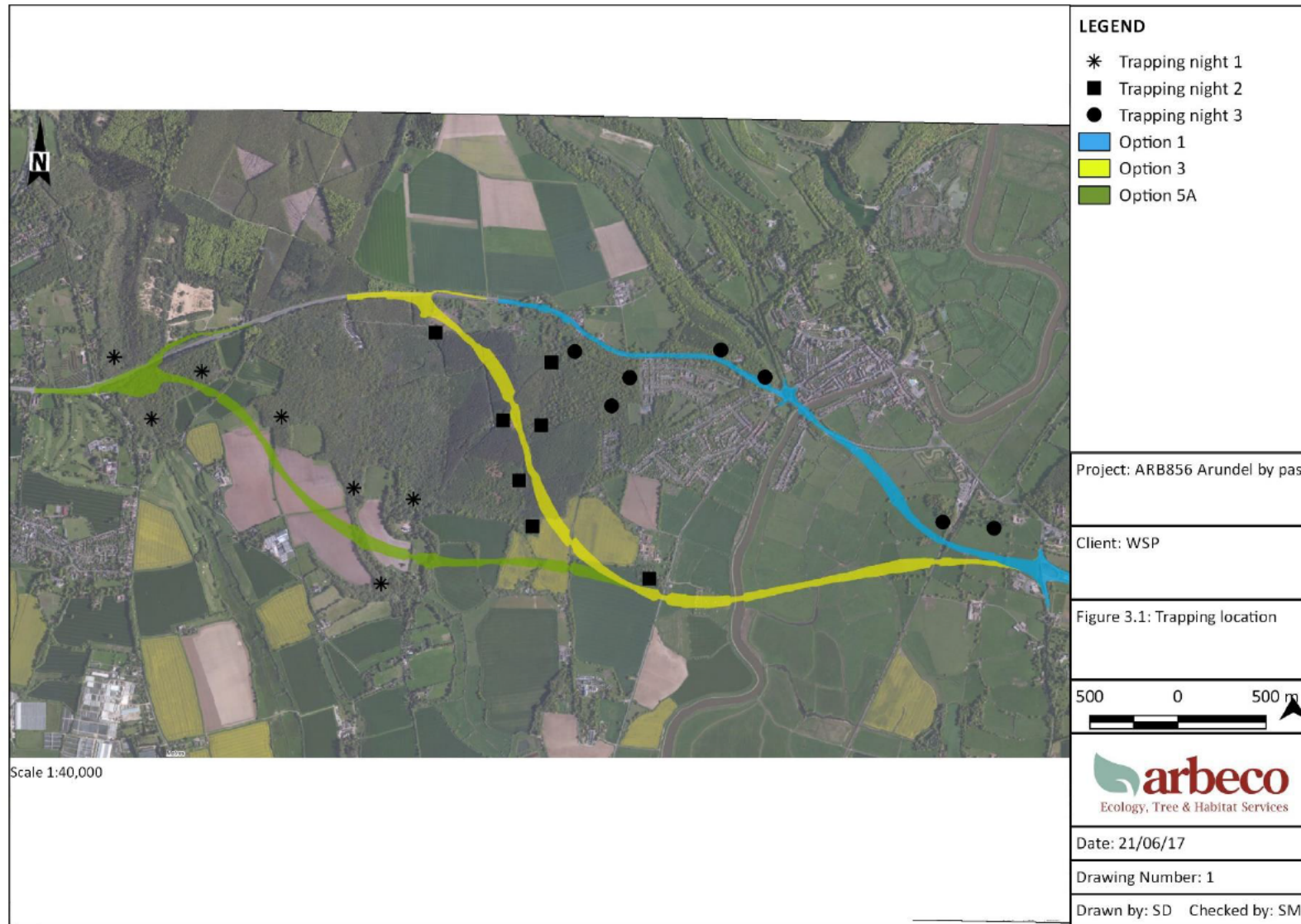
1. Roost Assessment Surveys
2. Activity transects
3. Crossing point surveys
4. Static surveys
5. Transects – landscape effects
6. Trapping
7. Radio-tracking



# Bat surveys undertaken in 2017

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# Arundel surveys: Radio tracking

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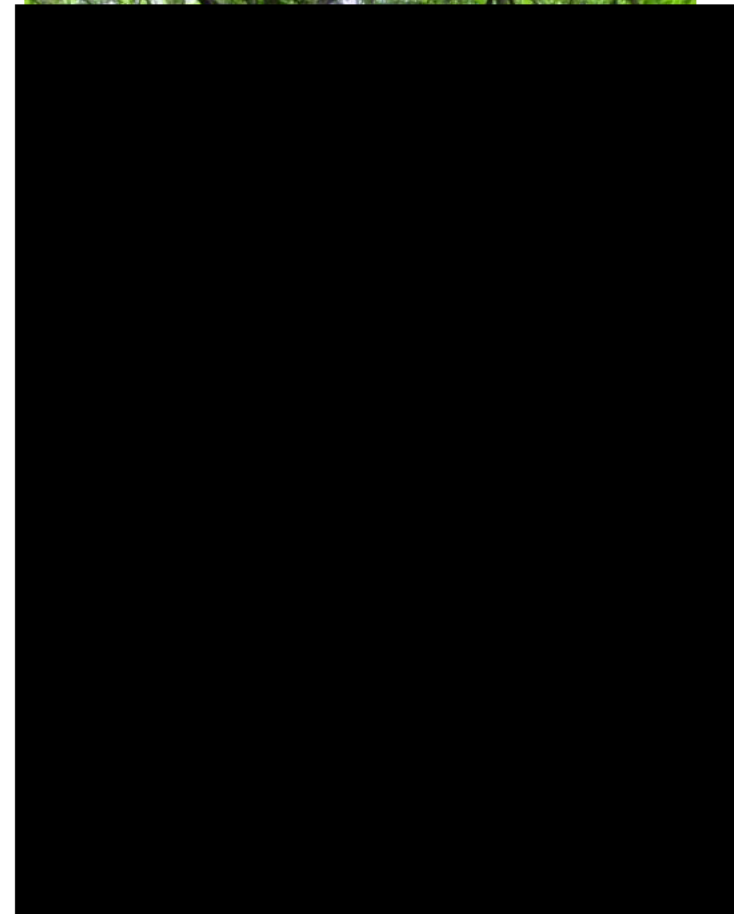


Autobat sound emitter



Harp trap

# Arundel surveys: Radio tracking







## Results - Woodland Bat species - Natterers



## Results - Woodland Bat species

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Daubenton's



## Results - Woodland Bat species – small myotis

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Whiskered





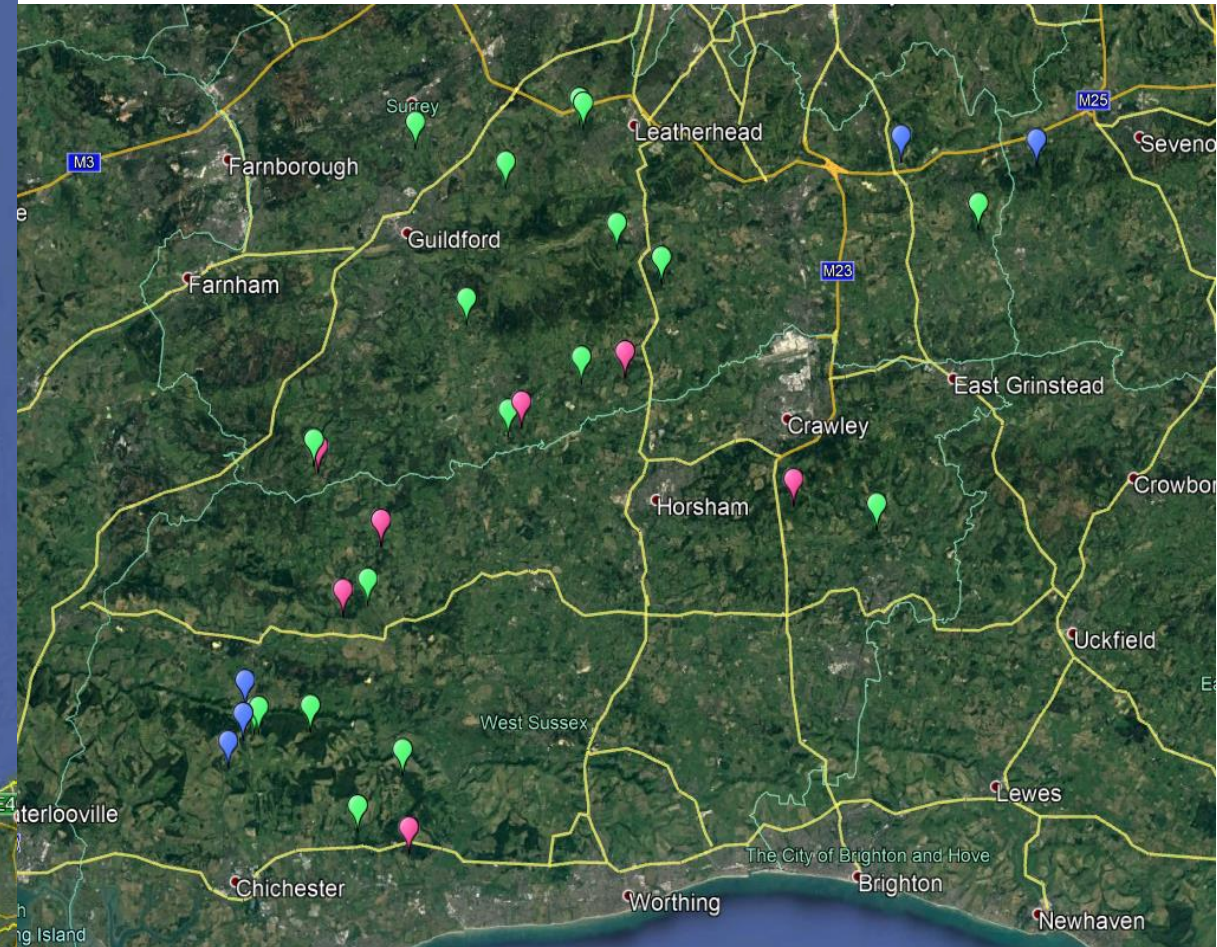
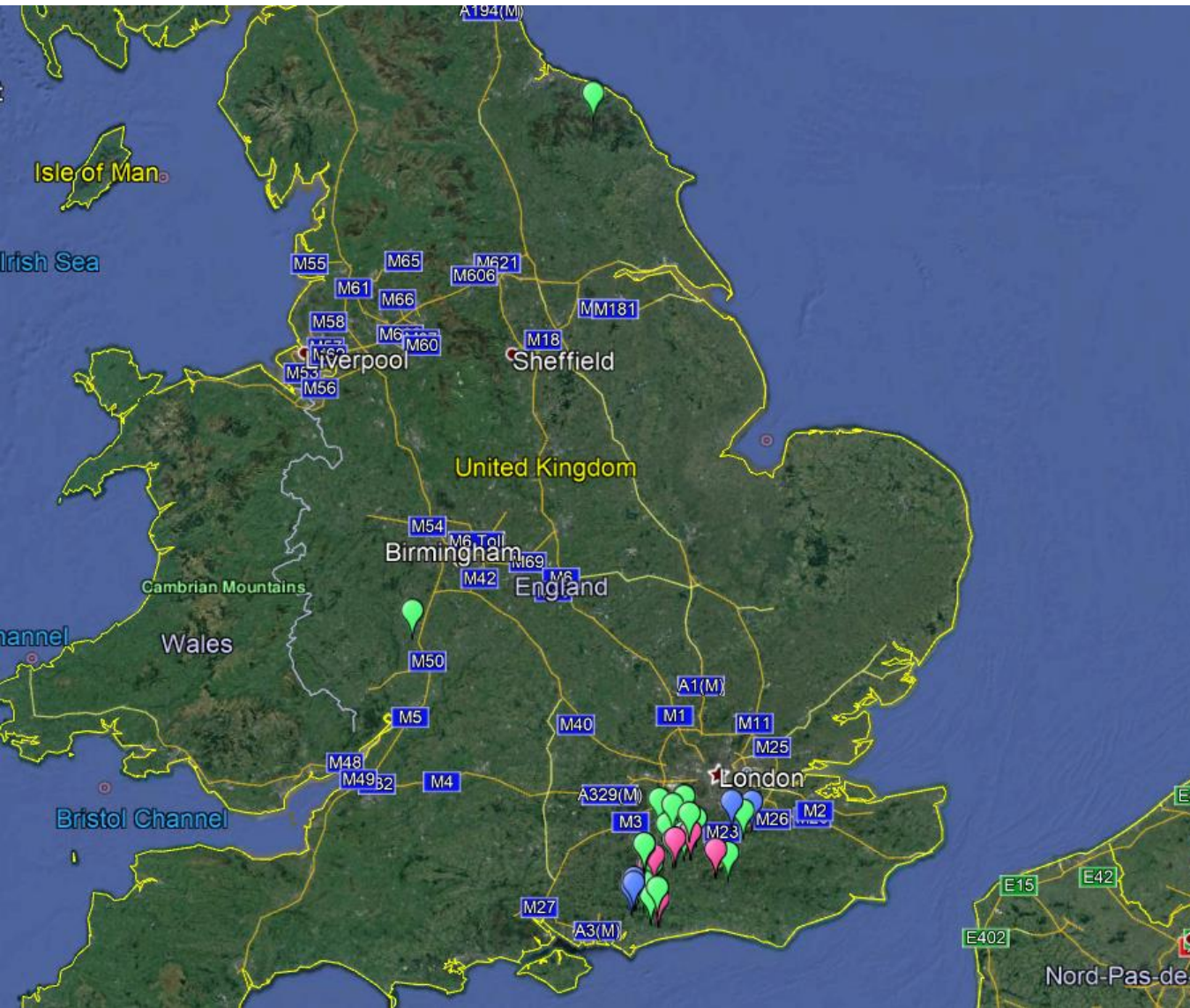
## Results - Woodland Bat species – small myotis

Alcathoe





# Alcathoe UK Distribution



# Results - Woodland Bat species – Bechstein's



Annex II





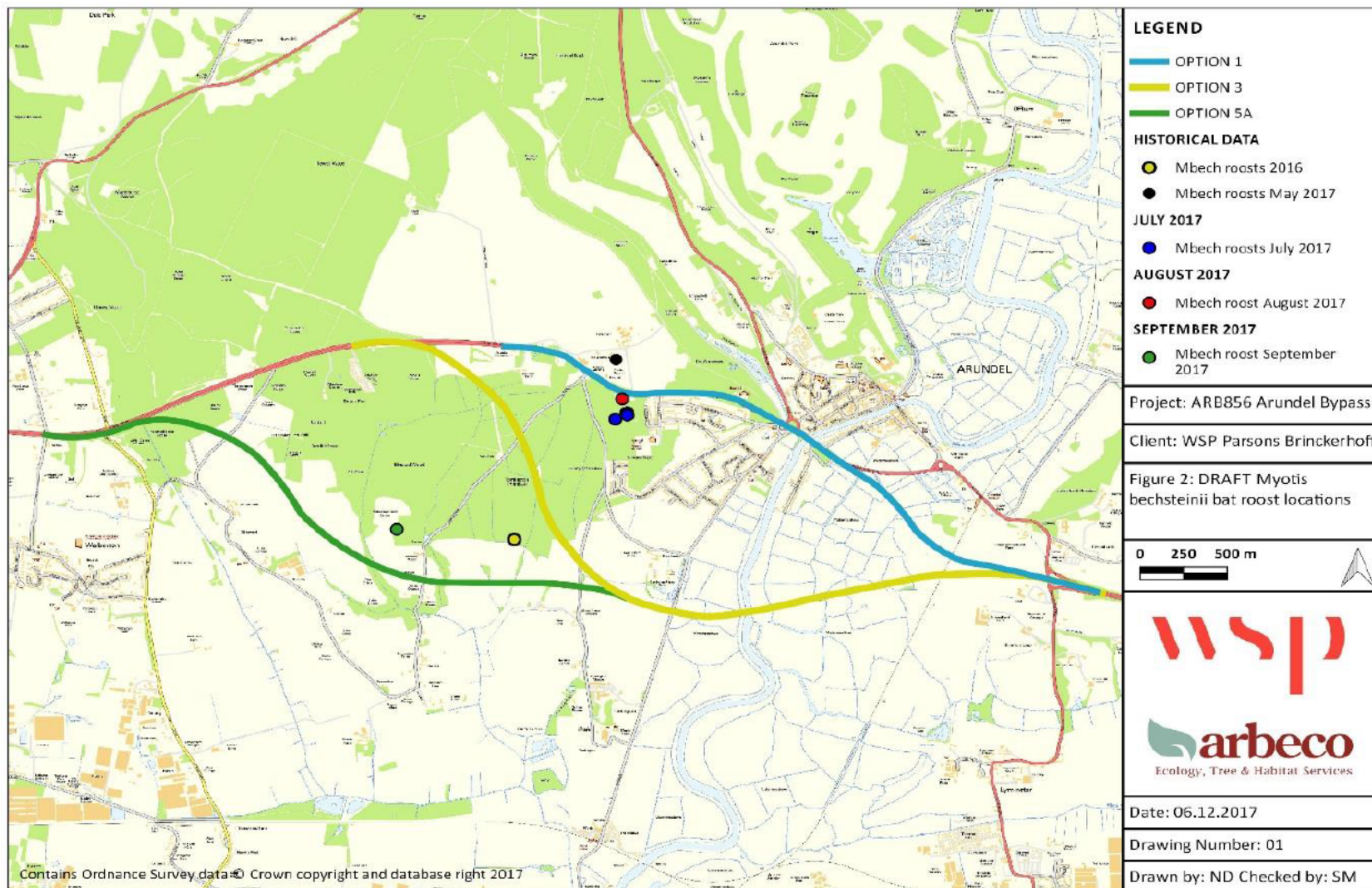
# Results - Woodland Bat species – Barbastelle

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## Annex II





Bechstein's