

Arundel By-Pass – Preliminary Bat Radio-tracking results

14/12/2017



Summary



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



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

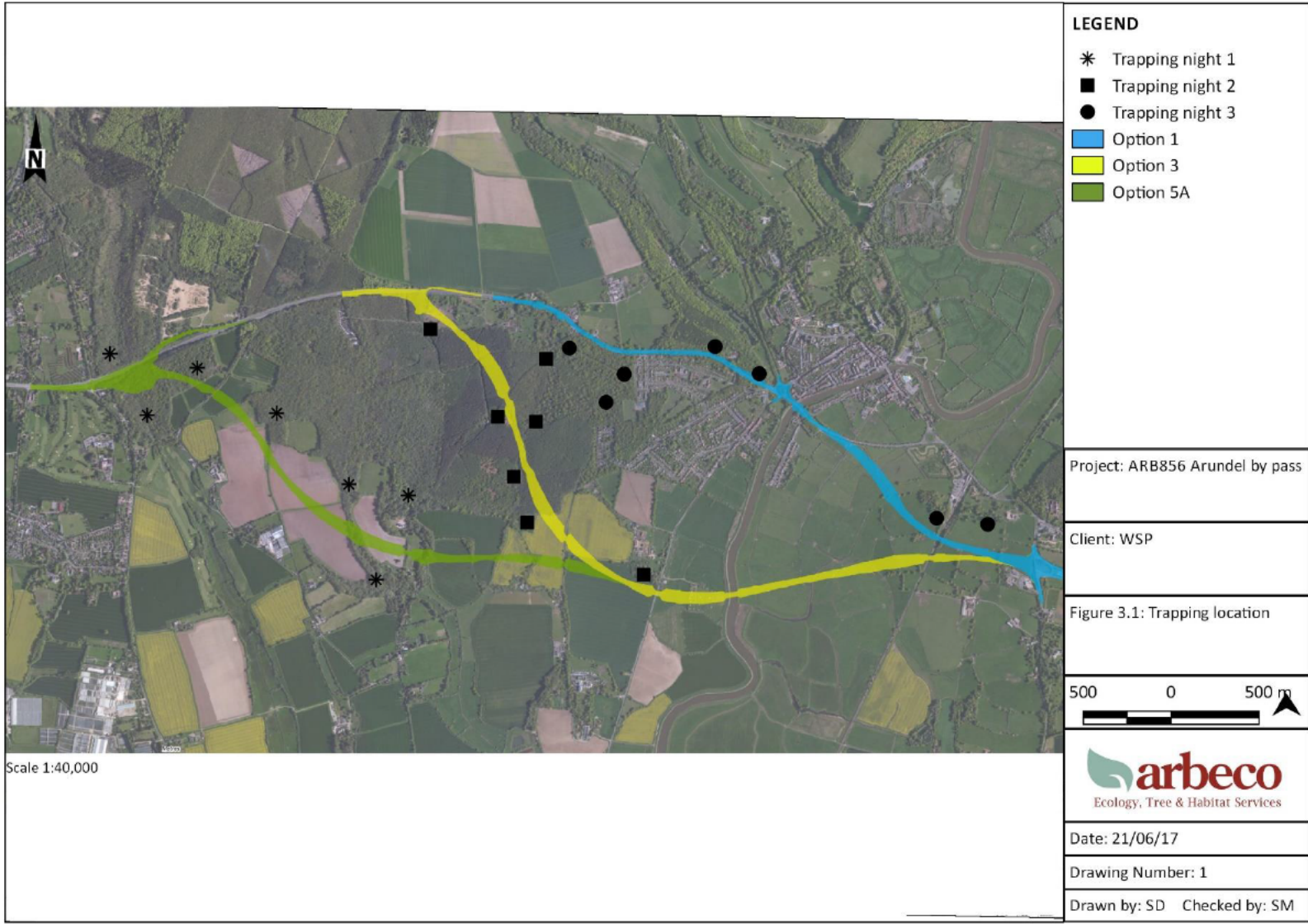


Bat surveys undertaken in 2017

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

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Arundel surveys: Radio tracking

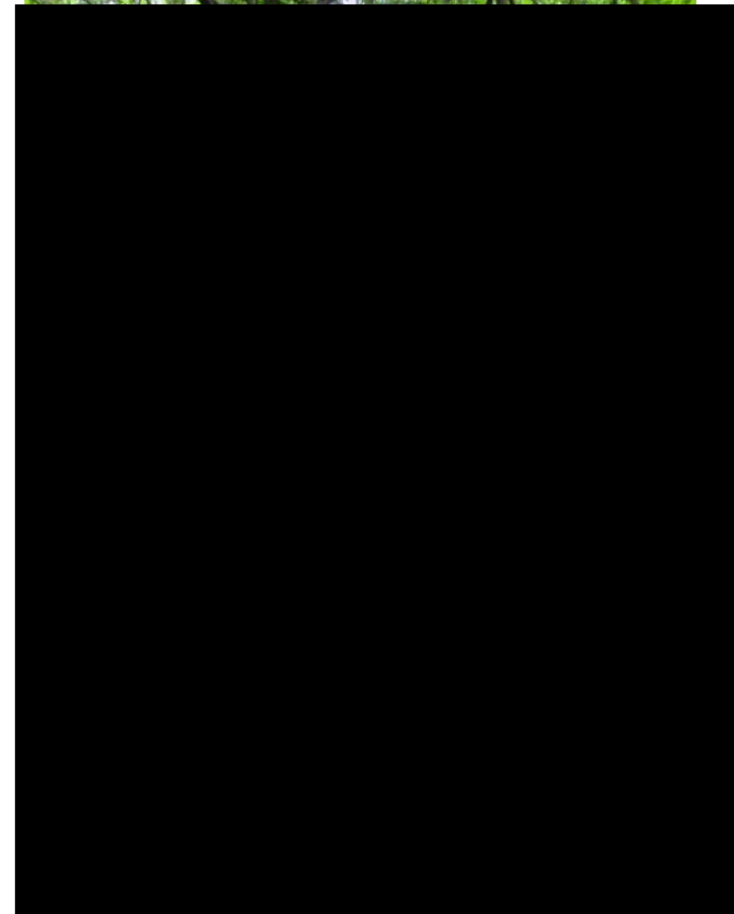


Autobat sound emitter



Harp trap

Arundel surveys: Radio tracking





Results - Woodland Bat species - Natterers



Results - Woodland Bat species

Daubenton's



Results - Woodland Bat species – small myotis

Whiskered

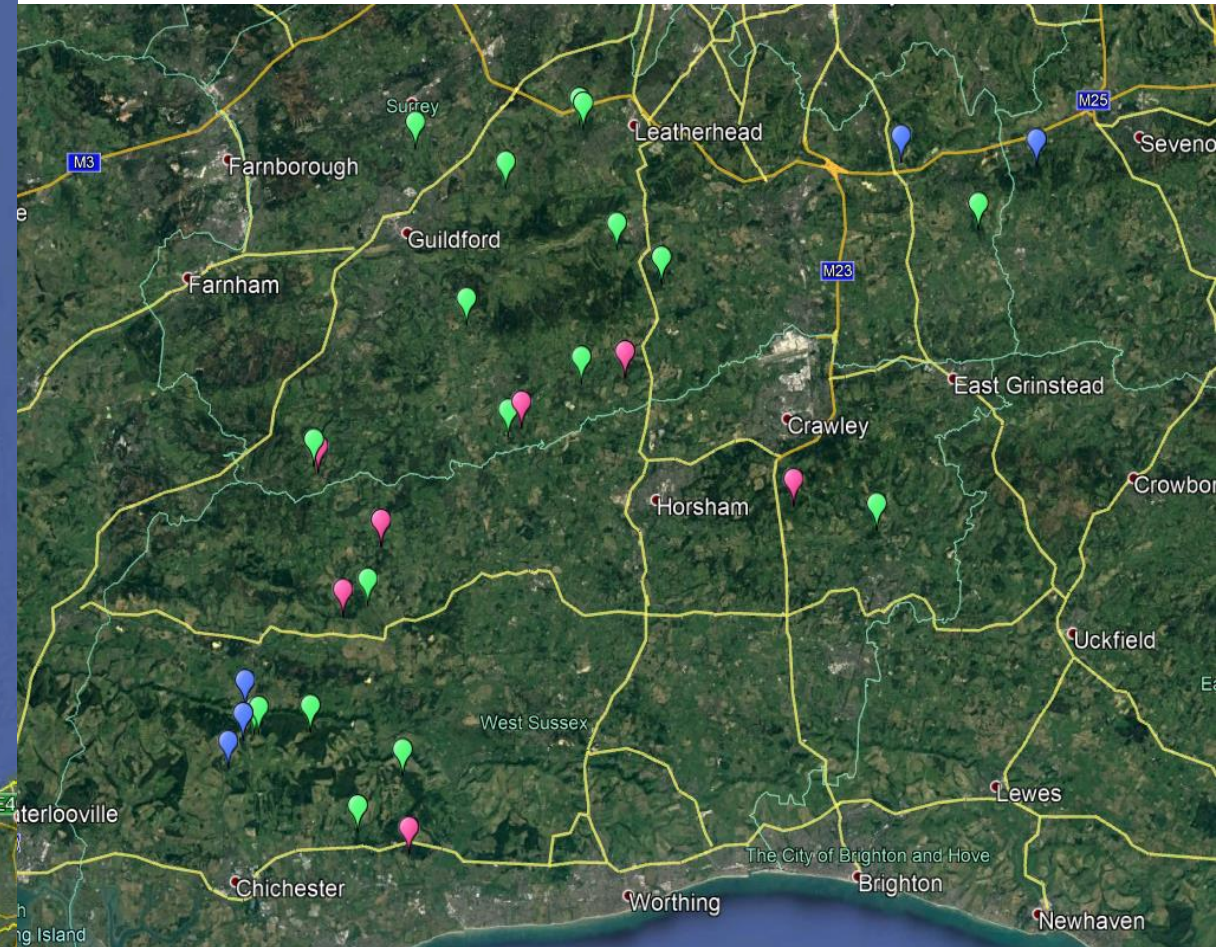
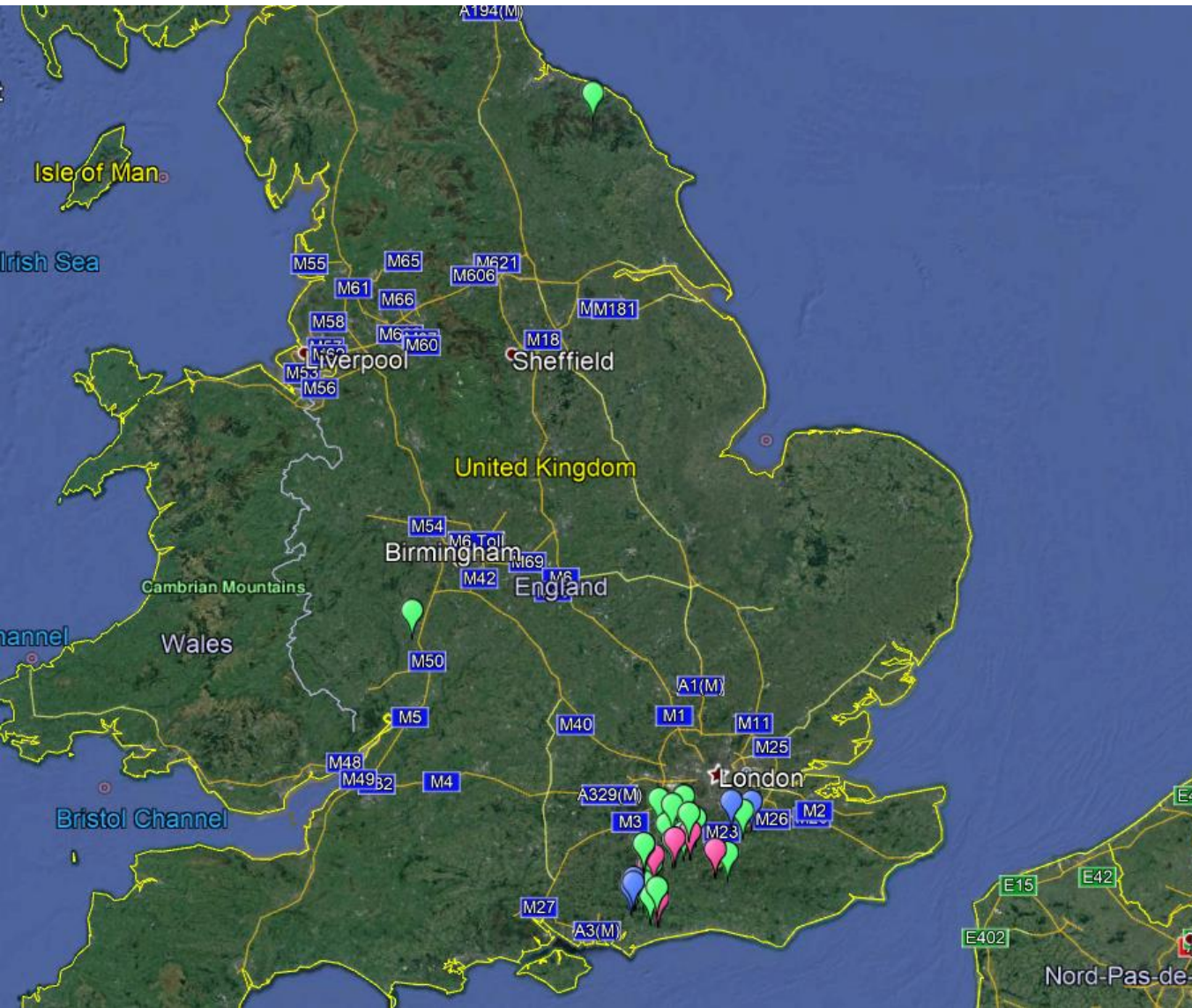


Results - Woodland Bat species – small myotis

Alcathoe



Alcathoe UK Distribution



Results - Woodland Bat species – Bechstein's



Annex II

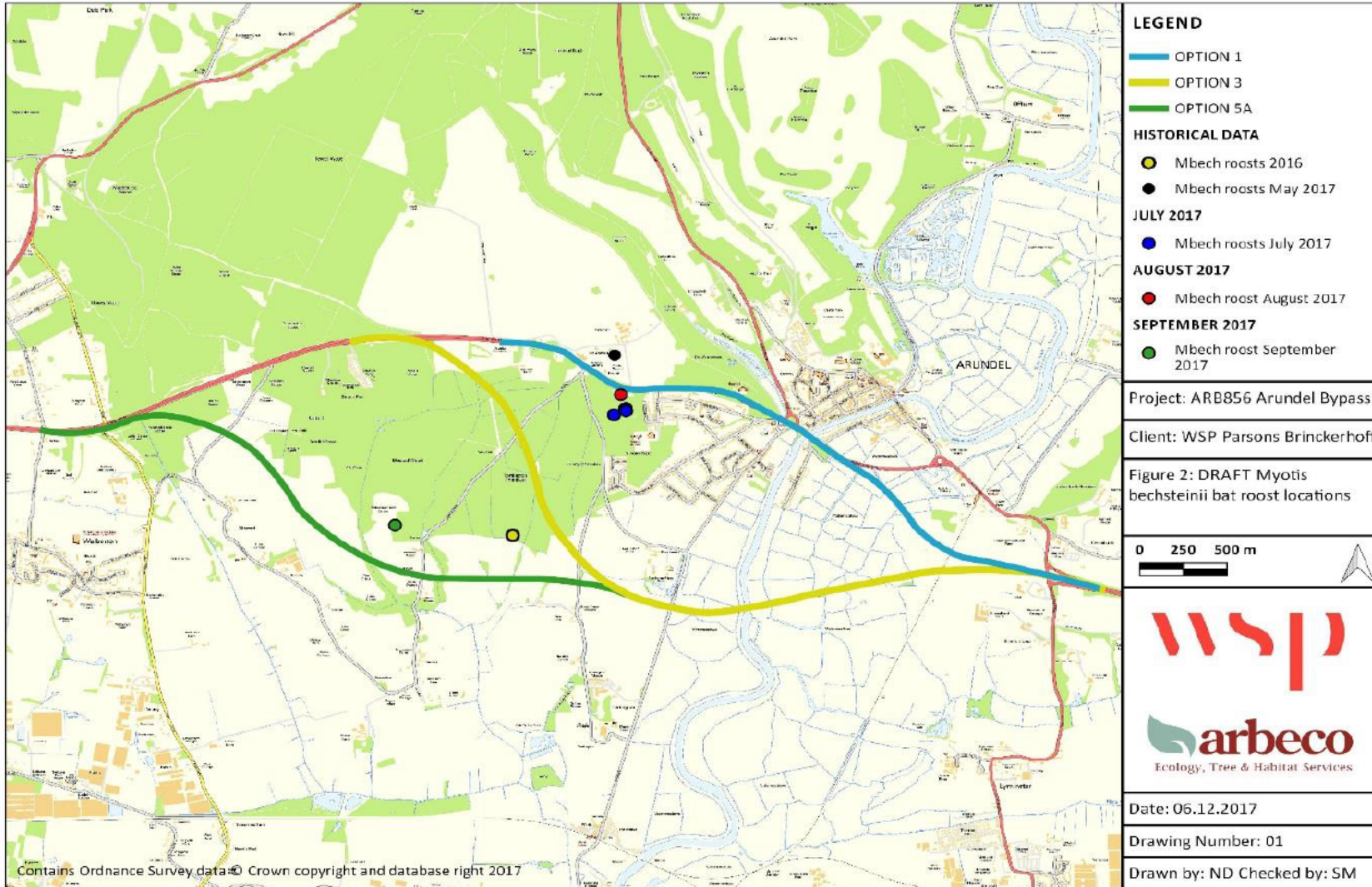


Results - Woodland Bat species – Barbastelle



Annex II





Bechstein's