

# Taxonomic and geographical coverage across the Diptera

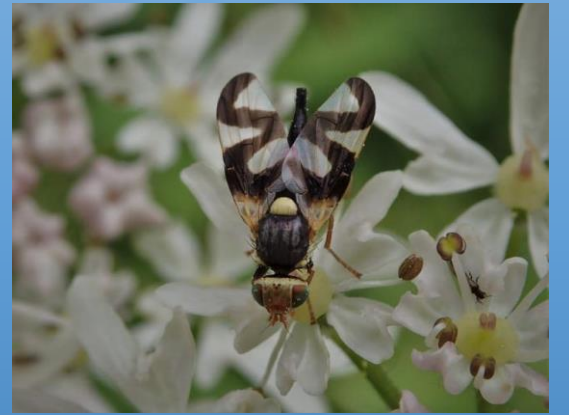
Phil Brighton

Anthomyiidae Recording Scheme



The Society for the study of flies (Diptera)

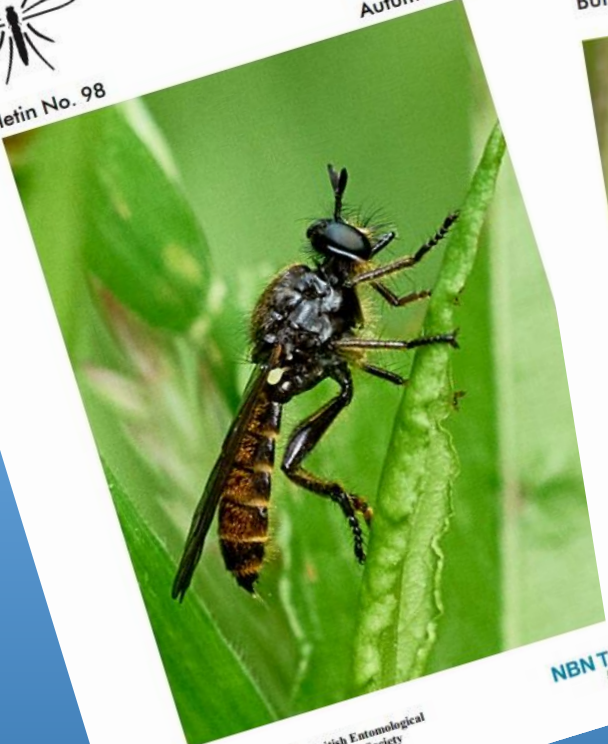
Affiliated to the [British Entomological and Natural History Society \(BENHS\)](#)



BULLETIN OF THE  
**Dipterists**  
Forum

Bulletin No. 98

Autumn 2024



NBN Trust

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BULLETIN OF THE  
**Dipterists**  
Forum

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Dipterists Digest



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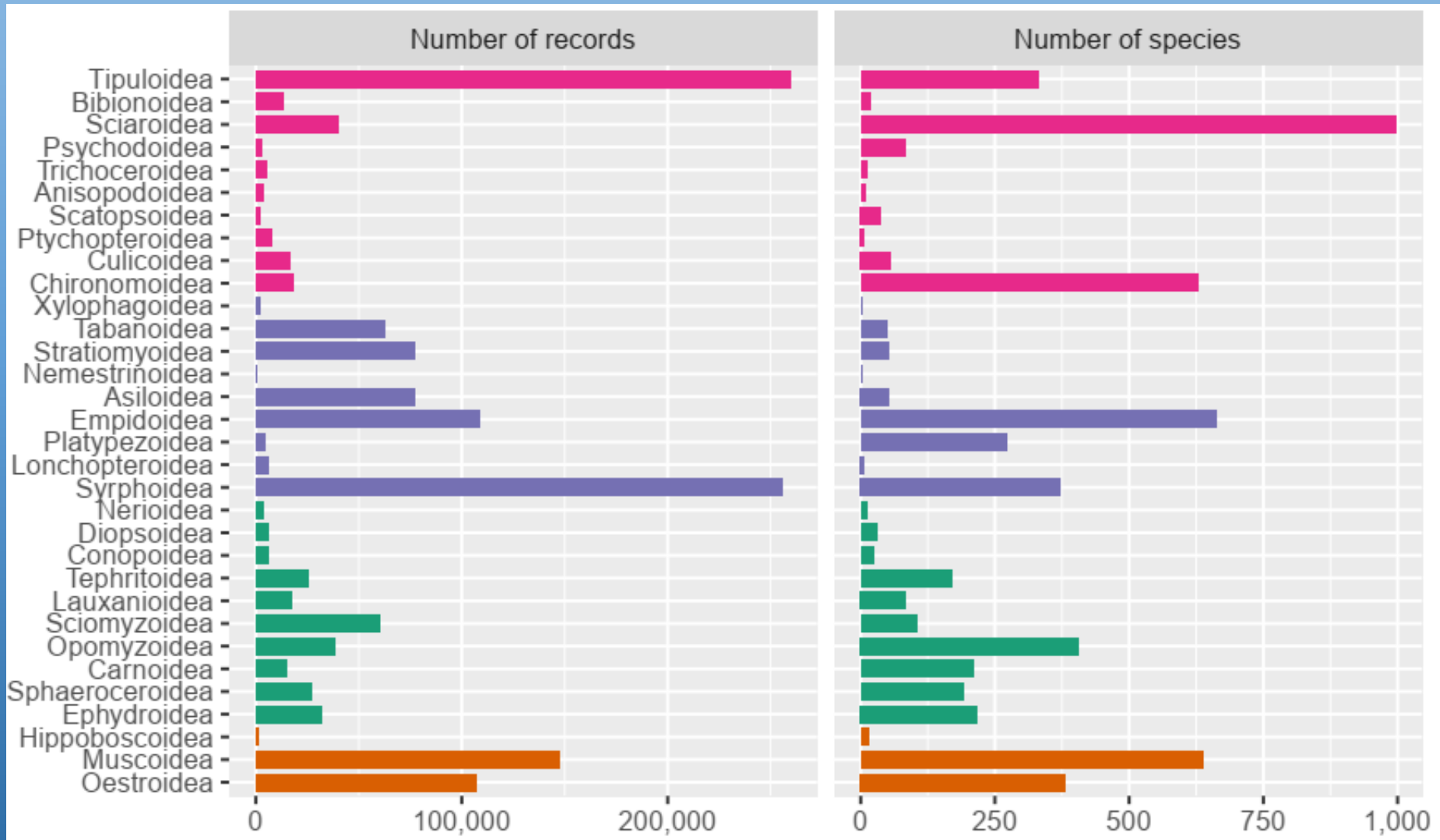
Dipterists Digest



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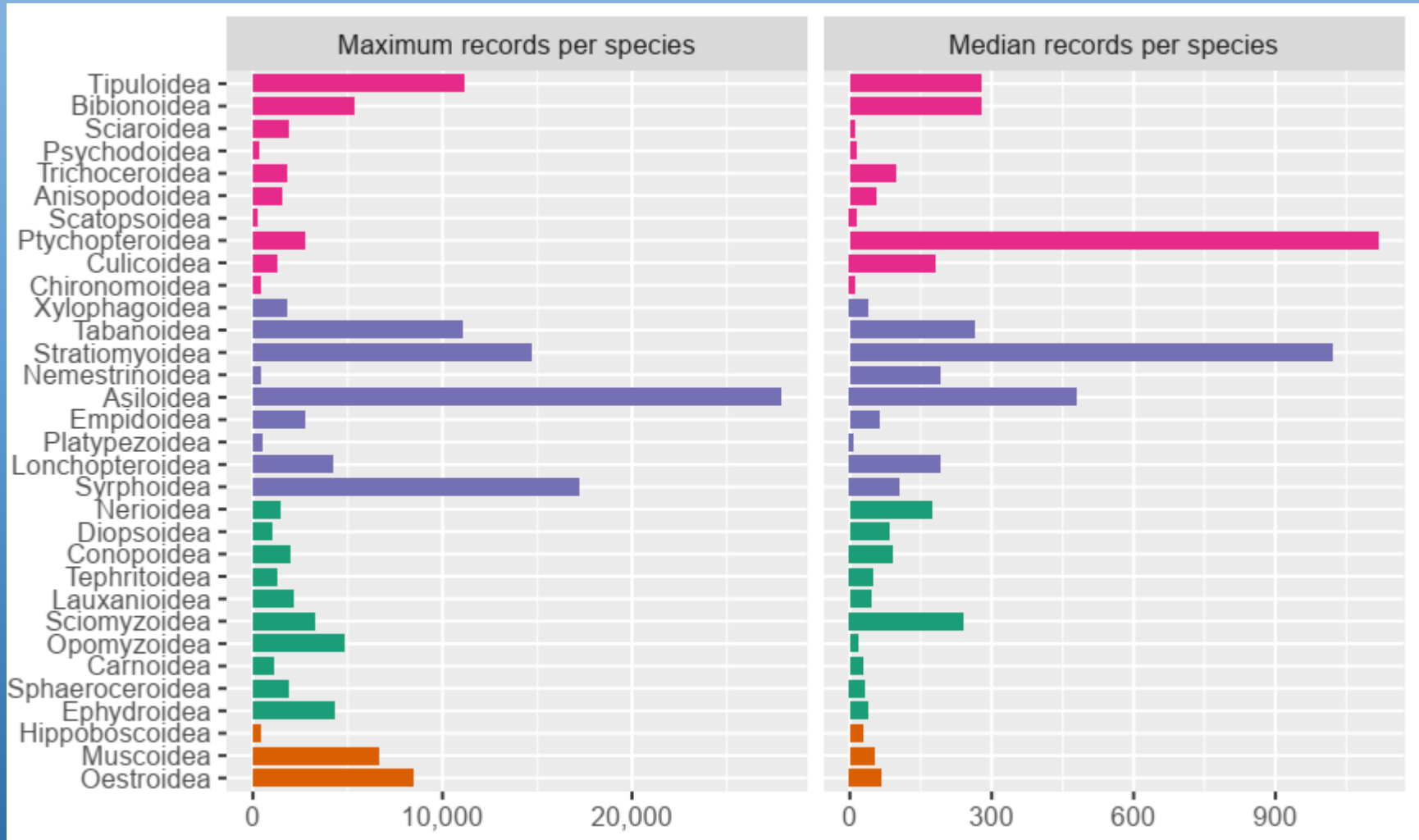
# Diptera superfamilies

Numbers of records and numbers of species on the NBN Atlas



# Diptera superfamilies

## Maximum and median number of records per species on the NBN Atlas



# Diptera superfamilies

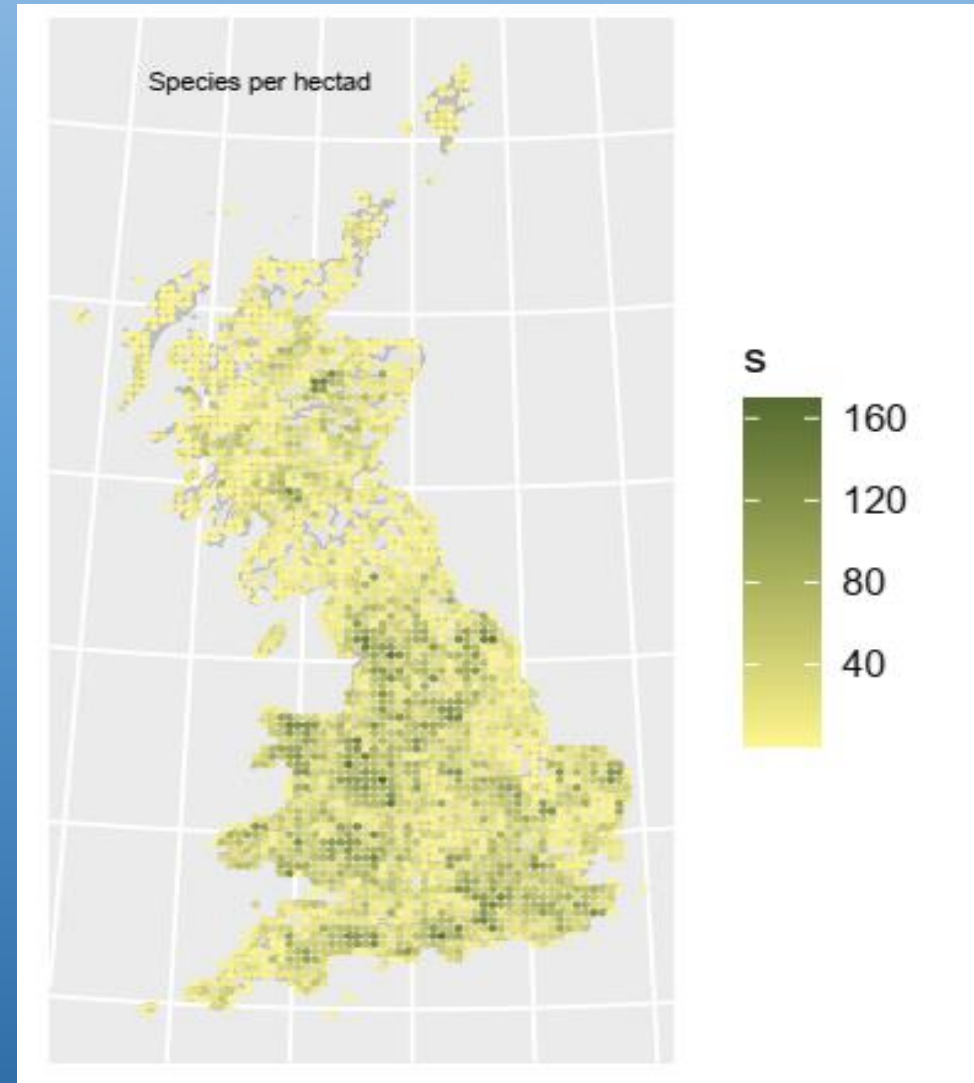
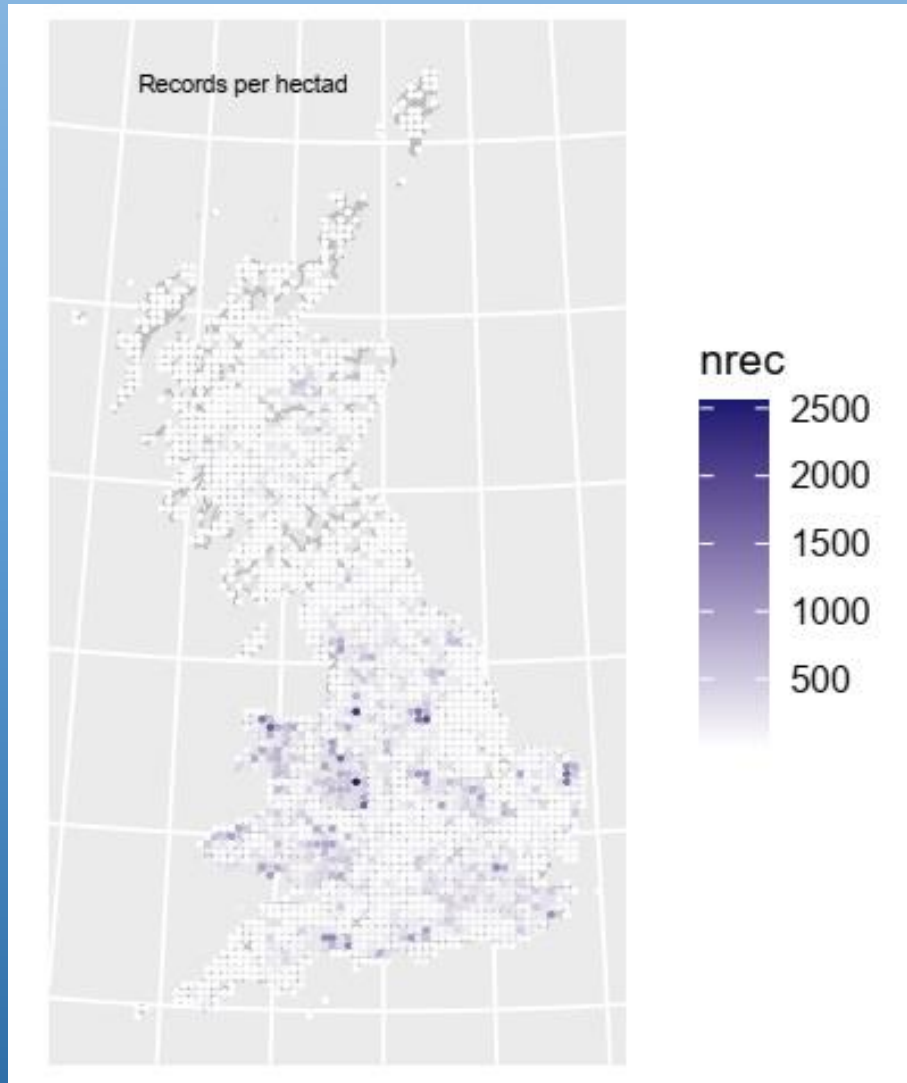
## Numbers of species with 0 records on the NBN Atlas



One sixth (ca. 1,200) of British Diptera species do not have a single record on the NBN Atlas

# Craneflies on the NBN Atlas

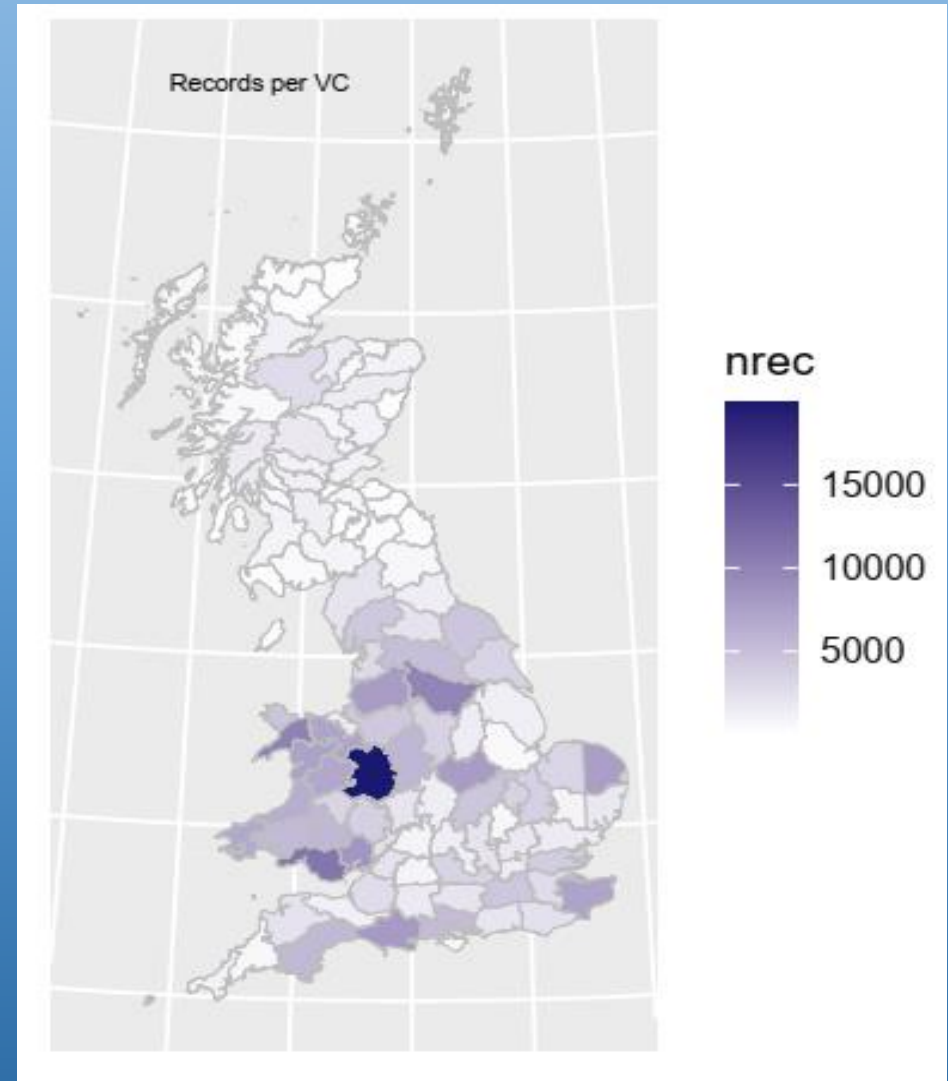
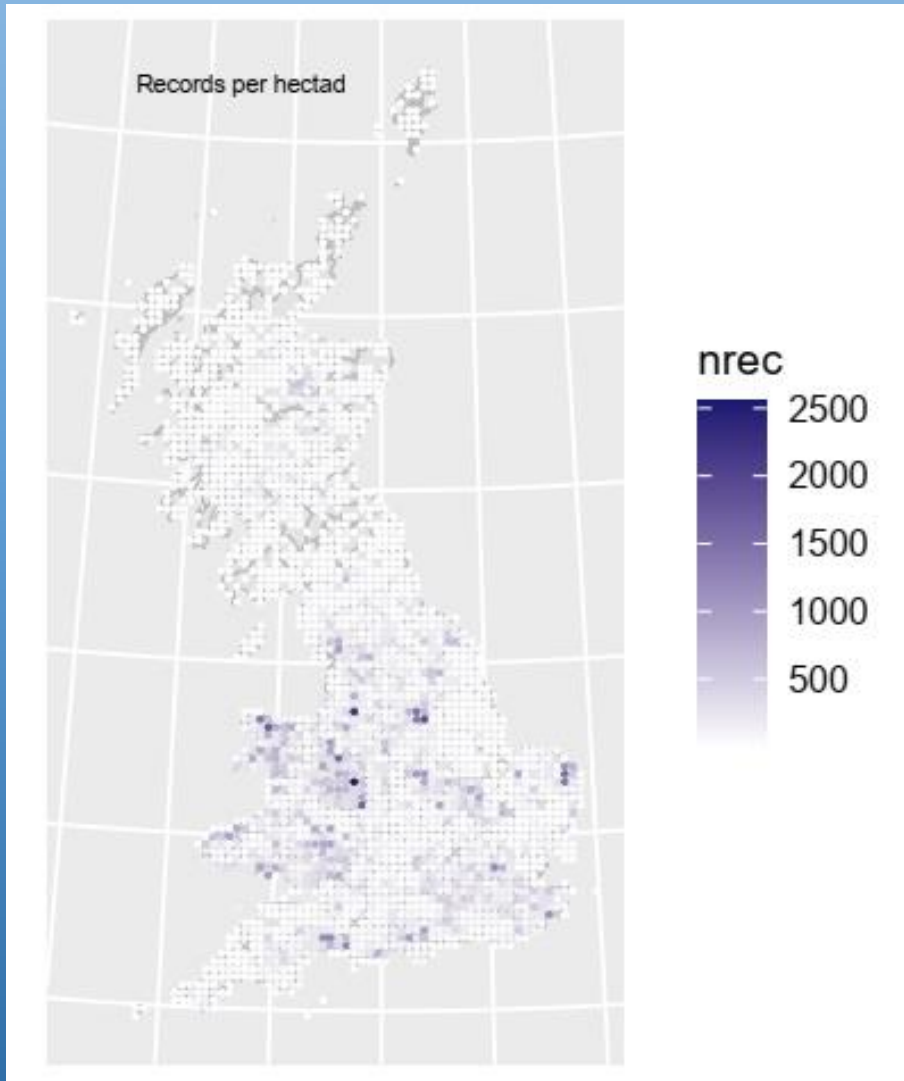
Number of records and number of species per hectad





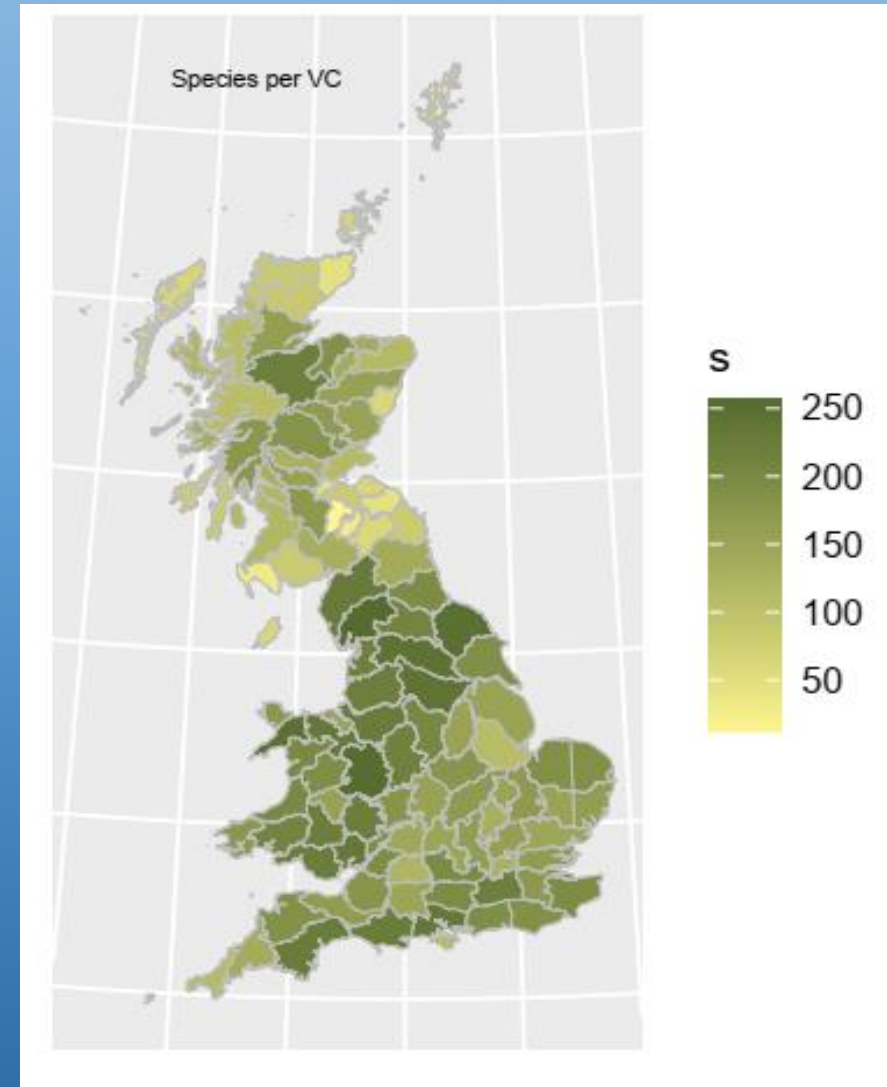
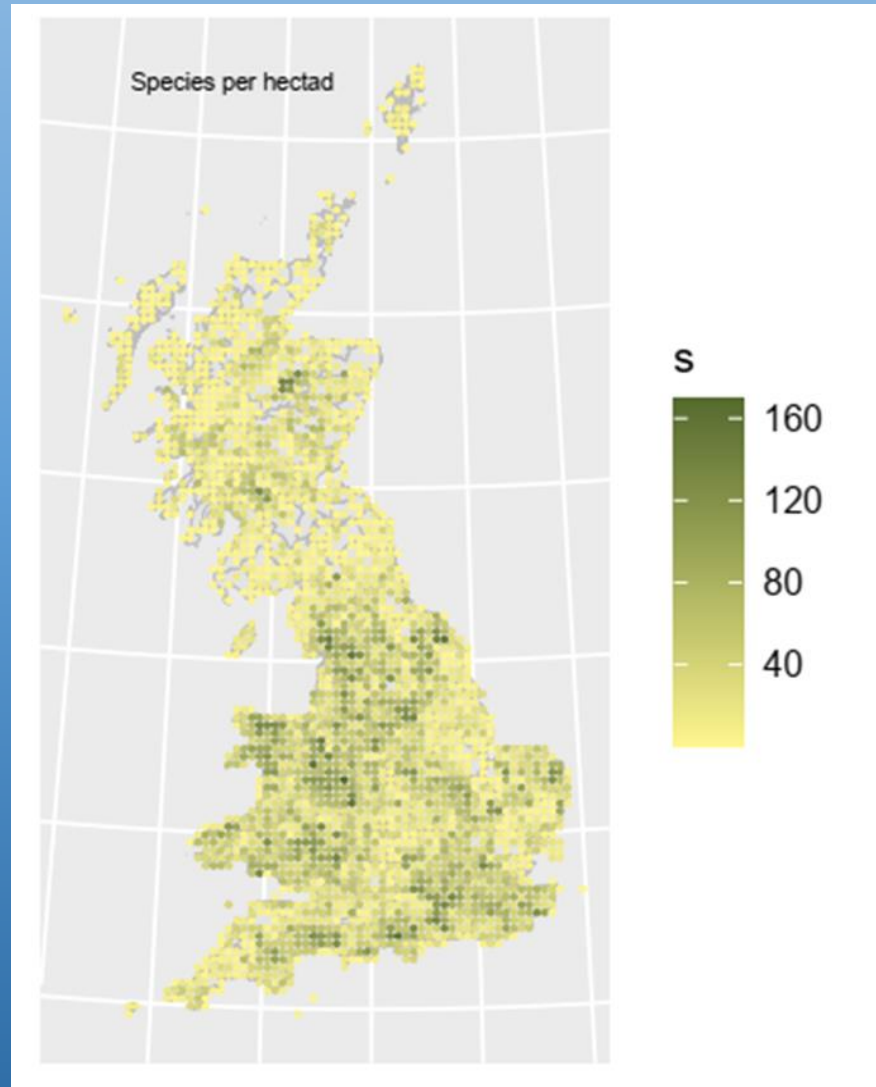
# Craneflies on the NBN Atlas

## Number of records per hectad and per vice-county



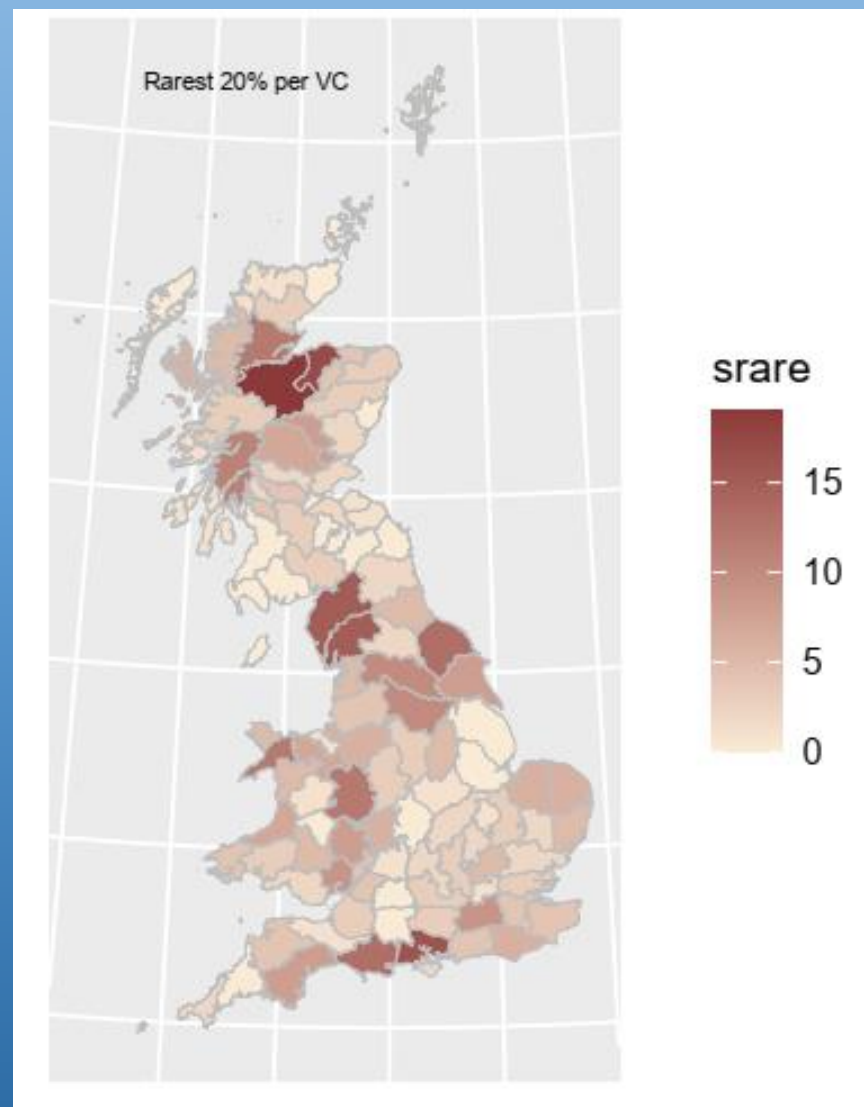
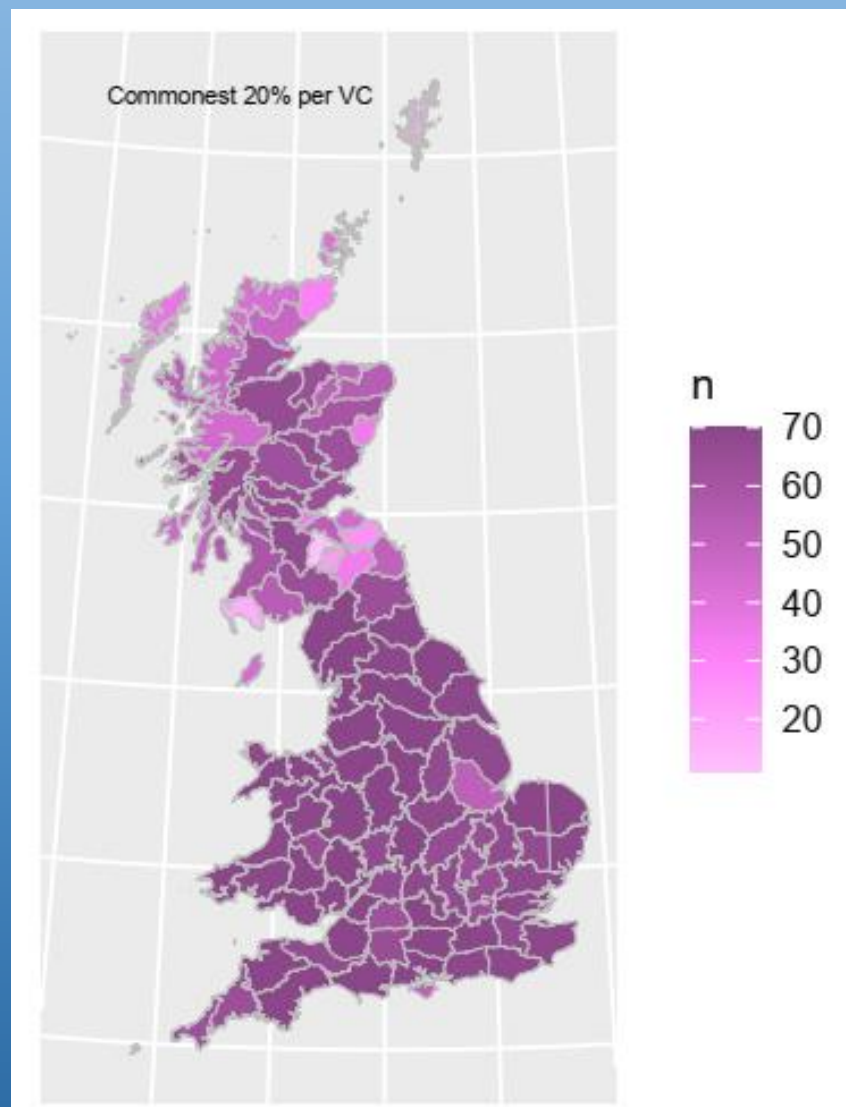
# Craneflies on the NBN Atlas

## Number of species per hectad and per vice-county



# Craneflies on the NBN Atlas

Numbers of common and rare species per vice-county



RStudio

```

66 VC_counts |>
67   rename(vcname = vice_county,
68          nmer = Record_Count,
69          s = Species_Count) |>
70   left_join(vcdist, by = "vcname") |>
71   select(-area) |>
72   VC_counts
73 #
74 vcmapi |> full_join(VC_counts, by = "vc") |>
75   mutate(s = coalesce(s, 0)) |>
76   ggplot()+
77   geom_sf(mapping=aes(fill = s),
78          color = "grey")+
79   coord_sf(label_axes = "") |
80   scale_fill_gradient(low = "khaki1",
81                     high = "darkolivegreen") |>
82   pl
83 #
84

```

Environment History Connections Tutorial

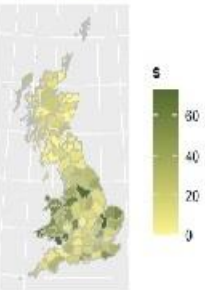
Data

VC_counts	100 obs. of 4 variables
vcdist	112 obs. of 3 variables
vcmapi	112 obs. of 2 variables

Values

projection	chr [1:2] "OSGB36 / British National Grid" ...
x	"Sphaeroceridae"

Files Plots Packages Help Viewer Presentation

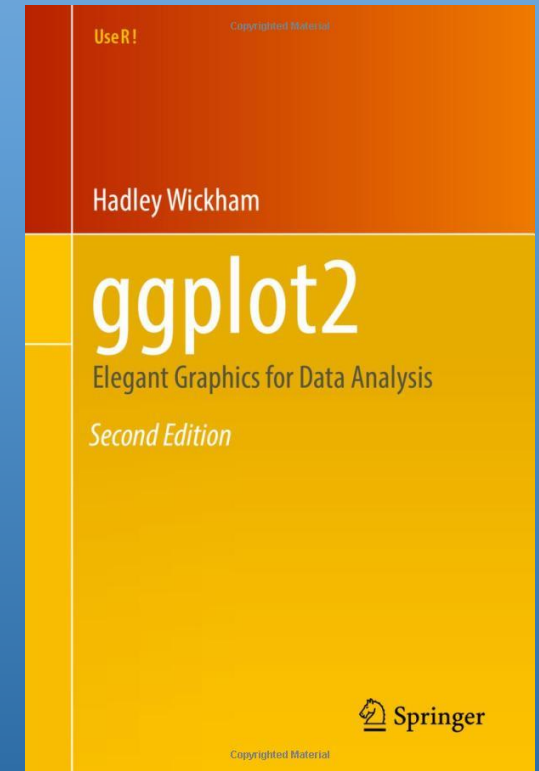
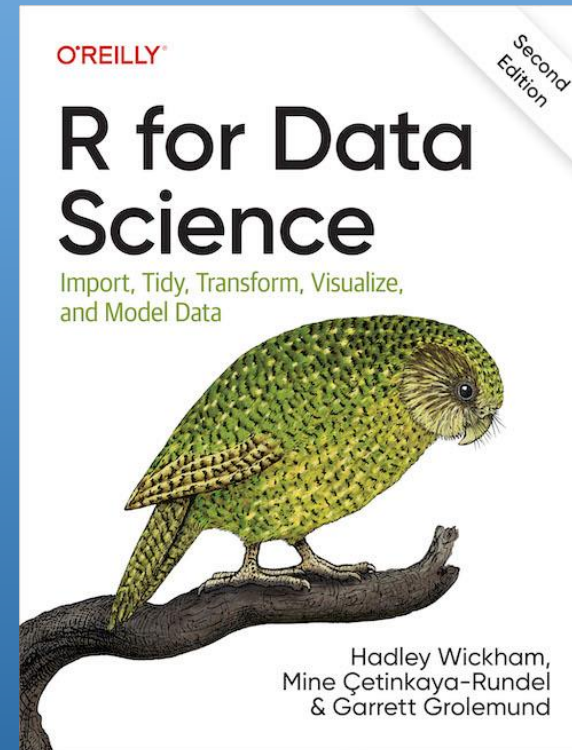


Console

```

R 4.13.3 ~ R/NIN_dipt_data/
+ full_join(vcdist, by = "vcname") |>
+ select(-area) |>
+ VC_counts
> vcmapi |> full_join(VC_counts, by = "vc") |>
+ mutate(s = coalesce(s, 0)) |>
+ ggplot()+
+ geom_sf(mapping=aes(fill = s),
+         color = "grey")+
+ coord_sf(label_axes = "") +
+ scale_fill_gradient(low = "khaki1",
+                   high = "darkolivegreen")
> view(VC_counts)
>

```



## R for recording data analysis

- Scope for wider use by recording community?
- Training and support – as with QGIS?
- Involvement of (young) people with IT background?