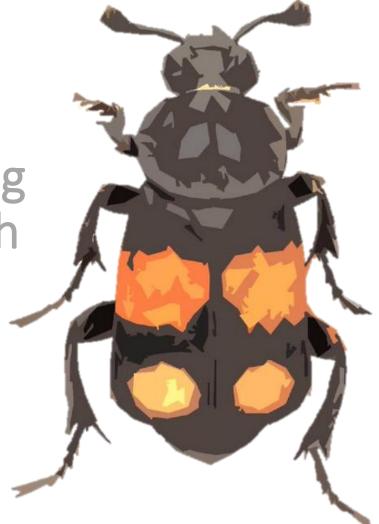
## Carri-on Recording: Establishing a Recording Scheme & working with Museums

### **Ashleigh Whiffin**

#### Silphidae Recording Scheme National Museums Scotland



# Silphidae Recording Scheme

- Started in May 2016
- Co-run by Ashleigh Whiffin, Matthew Esh & Richard Wright
- Current activity:
   Verifying records on iRecord
   Recruiting more recorders
   Hosting ID workshops
   Raising awareness via social media















© Ryan Clark





© lan Andrews

## Raising Awareness:



Facebook – picking up records/ID help Insects & other invertebrates of Britain & Europe Beetles of Britain & Ireland Moth Trap Intruders UK



**Twitter:** @SilphidaeUk #SilphidaeSunday



Instagram: #CarrionClub



YouTube: UKSilphidae





## **Recruiting Recorders**

## **DISCOVER**Wildlife

Wildlife and photography at its best from BBC Wildlife Magazine

NEWS PHOTOGRAPHY BRITISH WILDLIFE ANIMALS TRAVEL DIRECTORY

#### Discover 8 carrion beetles you should look out for

Ashleigh Whiffin discusses why carrion beetles are so important and interesting, and which species you can look out for.



Ashleigh Whiffin / Silphidae Recording Scheme

A a -





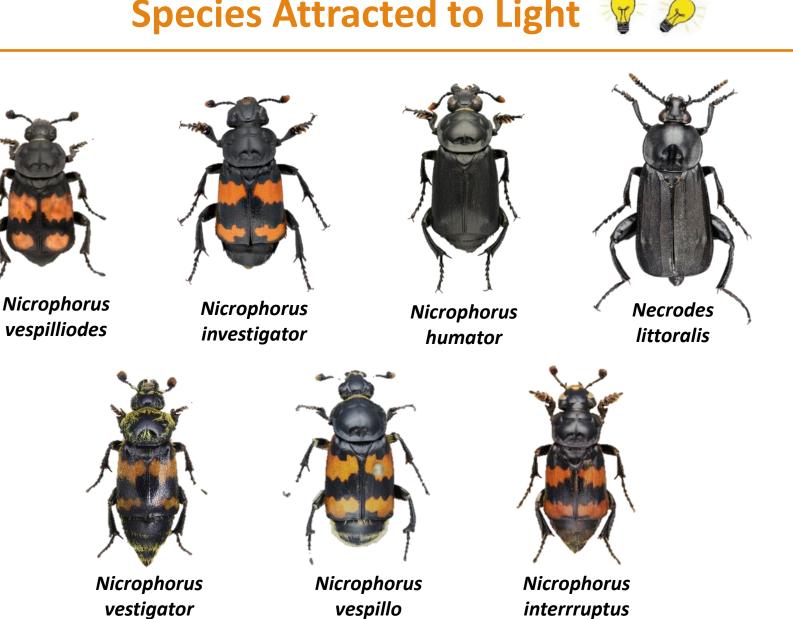
New on the website - discover 8 carrion beetles you should look out for. Just in time for @SilphidaeUk's #SilphidaeSunday!

## ow.ly/y0wu30jlPxm @ @AshWhiffin





## **Species Attracted to Light**





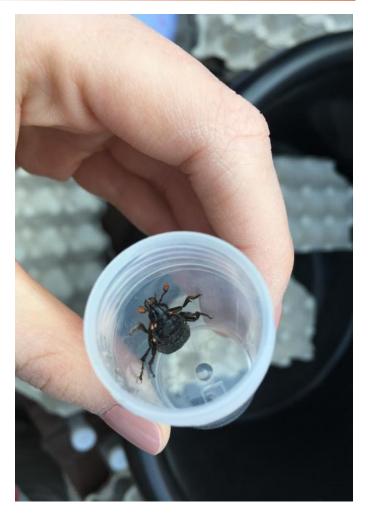
# Recruiting Moth Recorders



# Recruiting Moth Recorders

- Reaching out via social media
- Attended Butterfly Conservation (BC)
   Scottish Recorders Meeting
- Producing articles for BC newsletters







# Could we...

# kill two bugs with one stone?



#### Calliphoridae and Rhiniidae Recording Scheme Protocol for trapping project 2019

Calliphoridae and Rhinidae

The aim of the project is to record blow fly species attracted to carrion in order to produce up to date distribution maps and learn about the seasonality of different species. The results of the experiment will contribute to papers published in peer reviewed journals and the data will be made available for future research through the NBN Atlas. The results will contribute to a PhD thesis.

Any specimens or photographs (for species that can be identified from them) of Calliphoridae and Rhiniidae with a date, location and habitat information will be gratefully received and used for distribution mapping and modelling. However, as blow flies attracted to carrion are the focus of this study, we recommend the following protocol to target these species in particular.

Trap design – we recommend a plastic bottle trap (modified after Hwang & Turner, 2005) due to its low cost and ease of operation; baited with materted chicken or pig liver mixed with water (ina 1:1 ratio, e.g. 50 g liver in 50 ml water). You will need: two plastic bottles (1.5 or 2.0 litre preferred), small plastic pot for bait, old tights, sticky tape, scissors and some string or wire to fix it to fence post or hang it off the branch of a small tree so that the entry holes are approximately 1m off the ground.

One bottle holds the bait and attracts the flies to enter the trap through access holes; these holes can be made by simply cutting two intersecting lines of about 1-2 cm length in a cross shape and then pushing in the triangles of plastic that are created. The second bottle sits above the first, held in place by sticky tape, and is where the flies are retained after they are captured. The trap works on the principle that flies tend to move upwards, towards the light, and therefore concentrate in the higher chamber.

A barrier to stop the flies getting caught or falling into the bait mixture will produce cleaner specimens. Some mesh or netting over the bait (e.g. cut from old tights) should be used to prevent direct fly contact with the bait, minimise eggs being laid and larvae developing.

If a trap is to be set for a short period of time or is to be put out in winter, it may be an advantage to keep the liver out of the fridge for a few (2-3) days to enhance its odour production before baiting the trap.

Trapping duration – we suggest that traps be left in situ for up to one week in summer months and possibly longer, up to two weeks, in early spring, late autumn or winter months. Trapping duration depends on local weather and other conditions. If the trap can be checked regularly then it can be collected when a reasonable number of flies have been captured. The key is to leave the trap out long enough to collect blow fly species that are locally present, but not so long that the condition of the specimens might deteriorate if they die before collection.

1



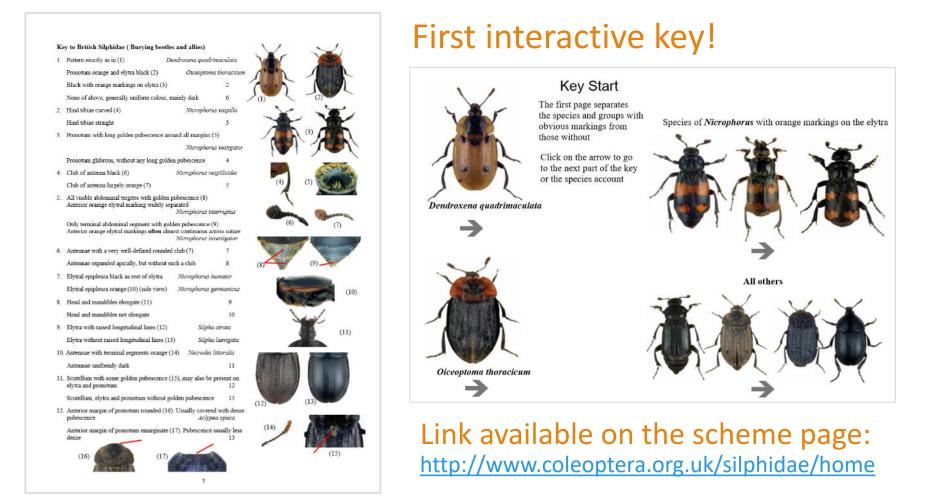




#### ... and work with other schemes



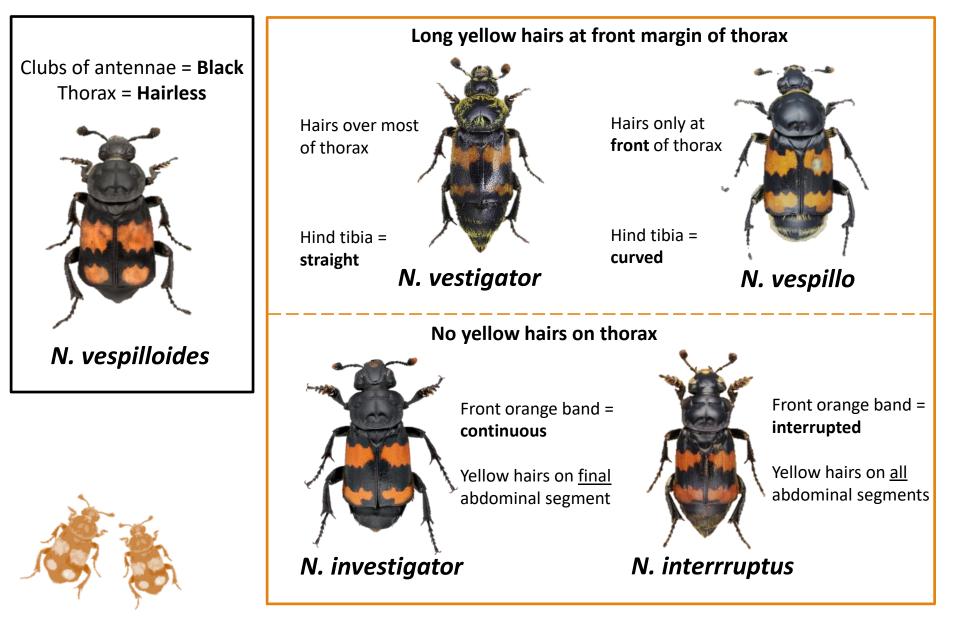
## Identification Keys





Credit: Richard Wright

#### Nicrophorus species with orange markings





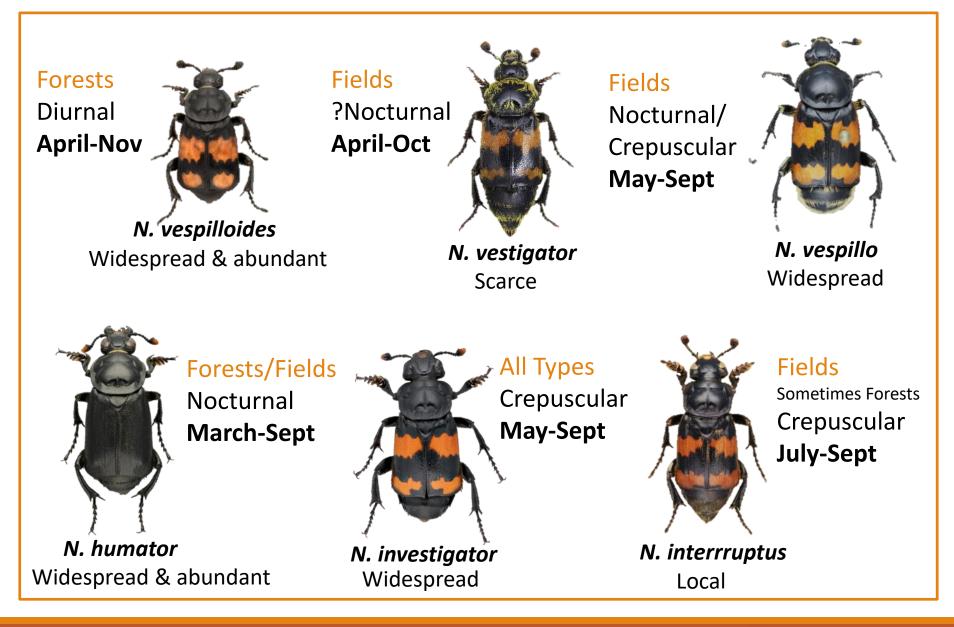
# Training Recorders



- 3 workshops hosted so far:
- o Edge Hill University
- o Liverpool World Museum
- o Berrycroft Hub
- Upcoming:
- o FSC Biolinks (Matt)
- Fife Records Centre (Ash)



#### Nicrophorus species: Ecology





## Dendroxena quadrimaculata



## **The Caterpillar Hunter**



Predatory on lepidopteran larvae
Associated with Oak trees
Active: April-July\*



## Rare species



Silpha carinata

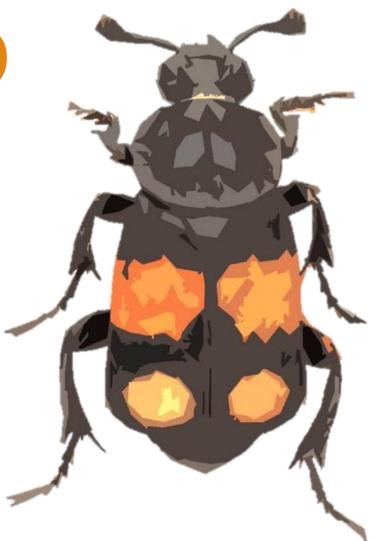
Great Ridge Wood, Wiltshire



# So how do museums fit in?

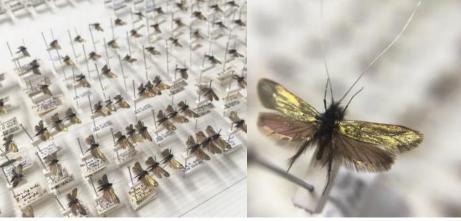
### **Ashleigh Whiffin**

Silphidae Recording Scheme National Museums Scotland



## **Museum Collections**











## **Museum Collections**





# Assisting with Research



#### Phosphuga atrata

Network of recorders to call upon if voucher specimens needed.



## Assisting with Research



Donations of larval specimens will help me to create a key larvae...



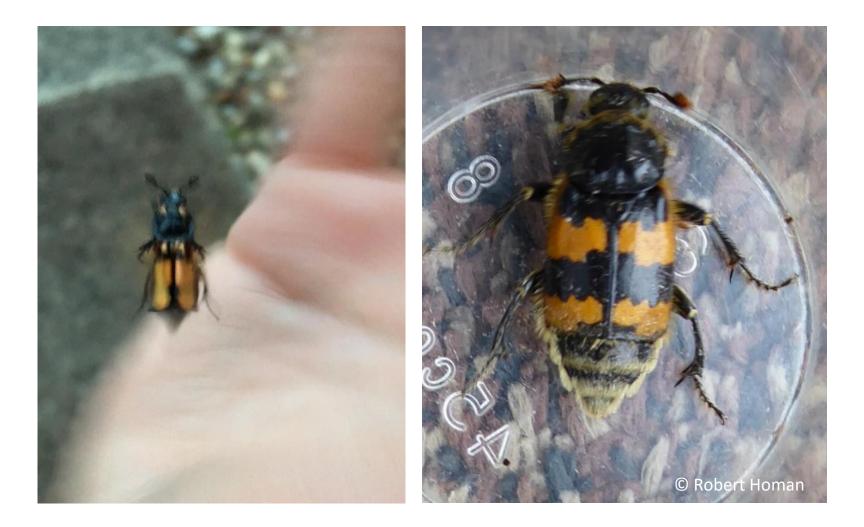
# The Challenges

#### **Ashleigh Whiffin**

#### Silphidae Recording Scheme National Museums Scotland

## **Record Shots**







## **Record Shots**







## Data Analysis

- Previously on hold until we had enough records to play with
- Currently exploring different approaches
- If you have any recommendations or can offer help – please let us know!





## What I've learnt:

There is never enough TIME to do everything!

- Work as a team & share the load
- Seek advice from other NRS organisers
- Be realistic about your targets
- Set aside some time for other life activities



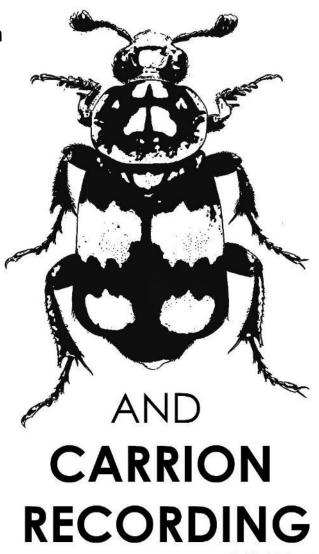


### The scheme would like to thank:

Martin Harvey (BRC), Jodey Peyton (BRC), Darren Mann (OUMNH), Max Barclay (NHM), Helen Roy (CEH), Tony Hunter (WML), Gary Hedges (NML), Bonnie Griffin (Bristol Museum), Jeanne Robinson (Hunterian), Sally-Ann Spence (Berrycroft Hub), Richard Loxton, Ed Ivimey-Cook, and **all our brilliant recorders!** 



## **KEEP CALM**



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