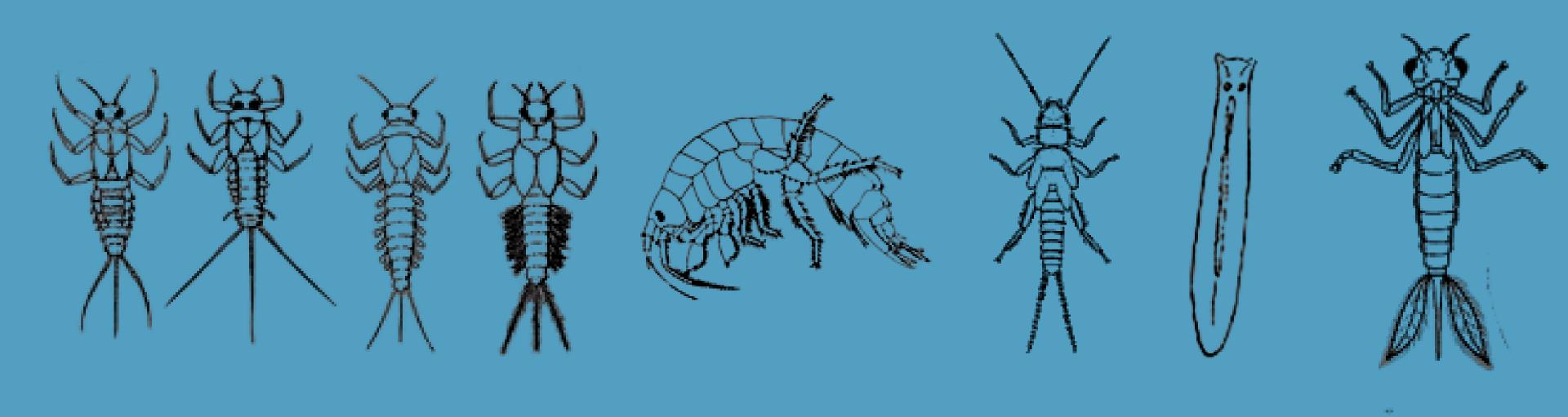
RIVERFLY: THE SECRET WORLD OF FRESHWATER INVERTEBRATES



DAVID TAYLOR-NORMAN



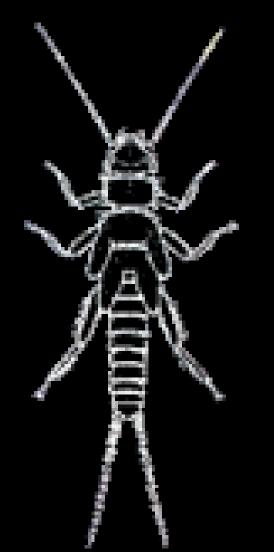
What are Riverfly and where to find them?

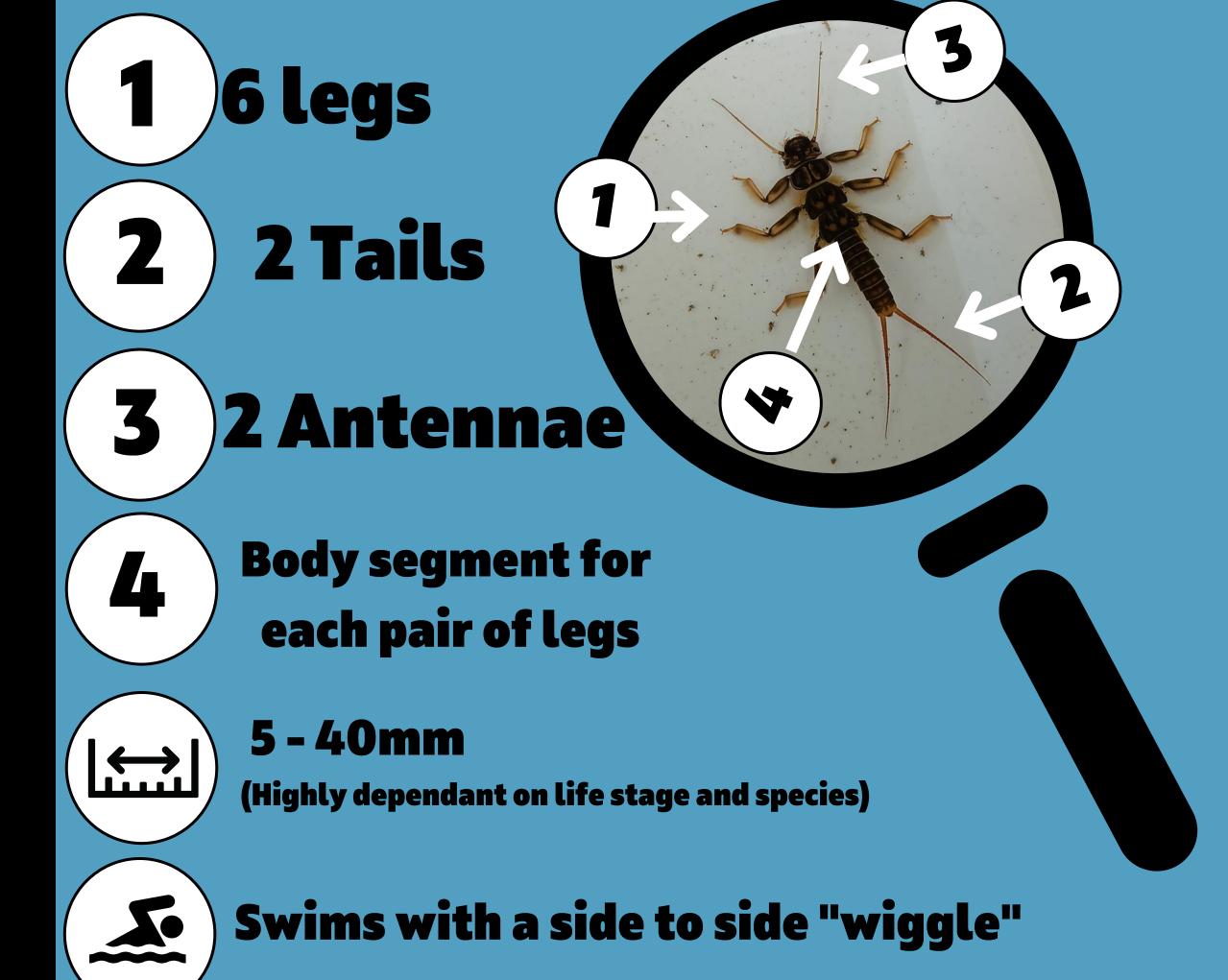
- Any freshwater invertebrate (everything but starfish)
 - Predominantly not flies*
- Found in any freshwater, to some extent or another
 - Easiest to find in gentle gravely streams



*There are a few flies

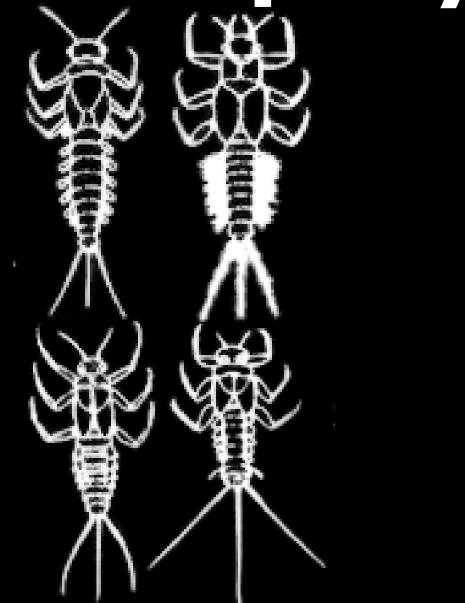
Stonefly nymph (Plecoptera)

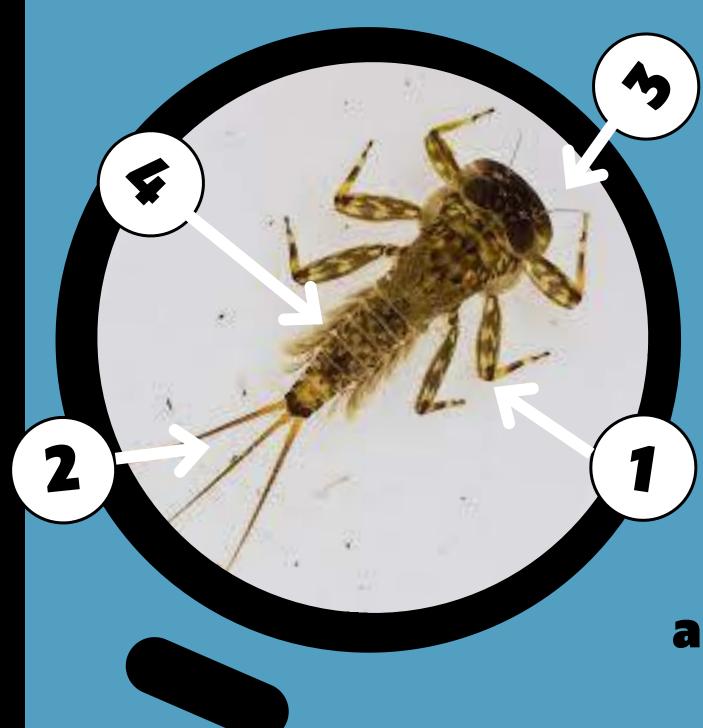




Mayfly Mymph

Ephemeroptera





6 legs

3 Tails

2 Short Antennae

Gills running along abdomen

4

2 - 25mm

(Highly dependant on life stage and species)

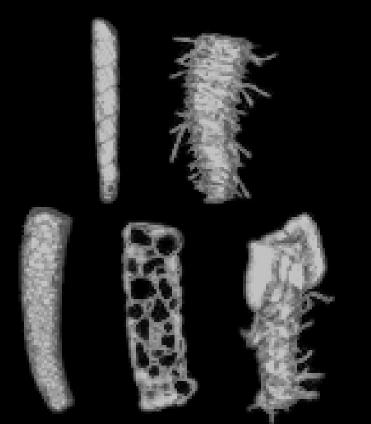


Various swimming styles dependant on group



Caddis fly mymphs (Trichoptera)





Cased Caddis

- Protective case made from sticks, sand, or stones
- 6 legs at the front of its body, has long abdomen anchored into case



Don't swim, crawls along substrate



Similar body plan as cased, but without case

Tufts or claws at the end of abdomen.

2 - 25mm (very dependant on species and life stage)

Later life stages mainly crawl, however, when they do swim they violently writhe back and forth

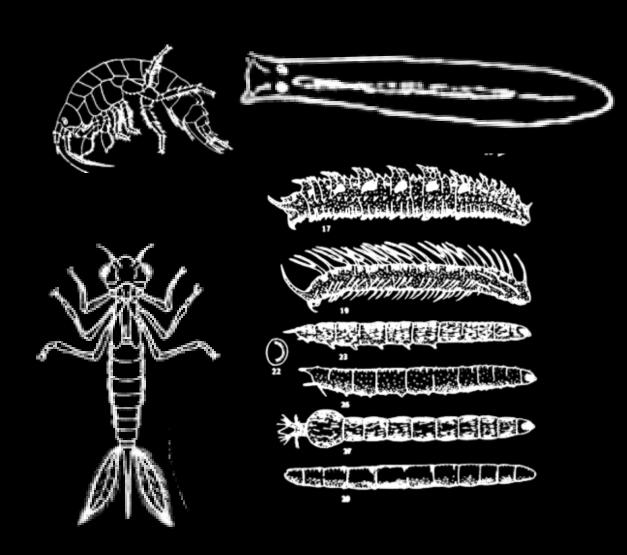








The Others





Erpobdella testacea



Gammarus pulex





Glossiphonia heteroclita



Dytiscus marginalis



Eristalis tenax



Some good ID Guides to look out







The "Correct" way -The ndard

- Gather equipment 500mic ion hand lens, 15x ma
- Check risk
- 2b. Check site
- 2c. Complete dyn
- 3. layout equipmen
- 4. Fill white sampling
- 5. Stand (car
- 7. whilst no

(do this for 10-20se

- 8. After 3mins of kick
- 9. Separate out spe
- 10. Spend 6-12 mg
- 11. Estimate, to t on the clipboard
 - 12. Empty tra back into
 - 13. Turn ov rocks to see w
 - 14. Pack up, ensuring everything i
 - 15. Get back to the office, disinfect

- Grab a net, wellies, a tray, a magnifying glass, and a plastic spoon

2) - Kick furiously infront of your net that you've stuck in the river

3) - See all the critters swimming around

ear (Th

ampling Riverfly



Recording your finds :=





 Once you have found and identified the critters you need to record them... FOR SCIENCE

CBDC Website form

IRecord



References

Link to CBDC Website - https://www.cbdc.org.uk/recordingwildlife/share-your-records/

Book Reference for those REALLY interested in sampling techniques

- Stark, J.D., Boothroyd, I., Harding, J.S., Maxted, J.R. and Scarsbrook, M.R. (2001) 'Protocols for sampling macroinvertebrates in wadeable

streams'.

Photo credits - > < G, Bradley - UK safari.com



Ashton, N. N., Taggart, D. S. & Stewart, R. J. 2012. Silk tape nanostructure and silk gland anatomy of trichoptera. Biopolymers 97, 432–445.

Unknown -



https://www.fscbiodiversity.uk/films/freshwaterinverts

