



Predatory Bird  
Monitoring Scheme

<http://pbms.ceh.ac.uk/>



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# Predatory Bird Monitoring Scheme - Public Engagement

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# PREDATORY BIRD MONITORING SCHEME (PBMS)

- Chemical surveillance and monitoring in sentinel species
- Long term, national scale
- Funded by CEH, Natural England, Campaign for Responsible Rodenticide Use (industry)
- Trends due to changes in use or larger-scale phenomena
- Aims: identify hazards, assess risk, quantify environmental drivers, inform policy, evaluate mitigation, assess risks to high priority species
- Tissue and egg archive for monitoring and research



# WHAT ACTIVITIES DO WE CARRY OUT?

- Citizen Science
- Ask members of the public to submit birds for analysis
- Facilitates a national scale chemical monitoring programme
- Aim to get up to 400 birds submitted per year





# How Does The PBMS Work?



Volunteer submission

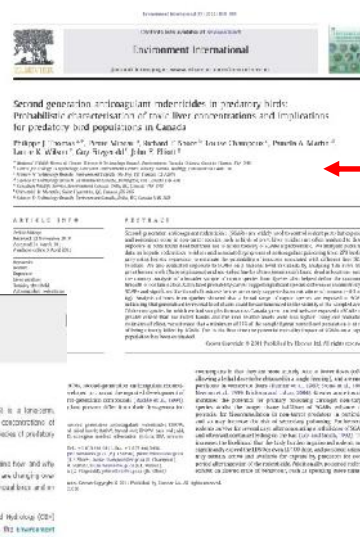


PM examination

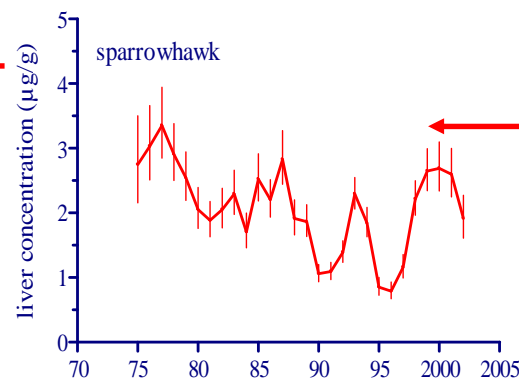


Sample archive

## Publication



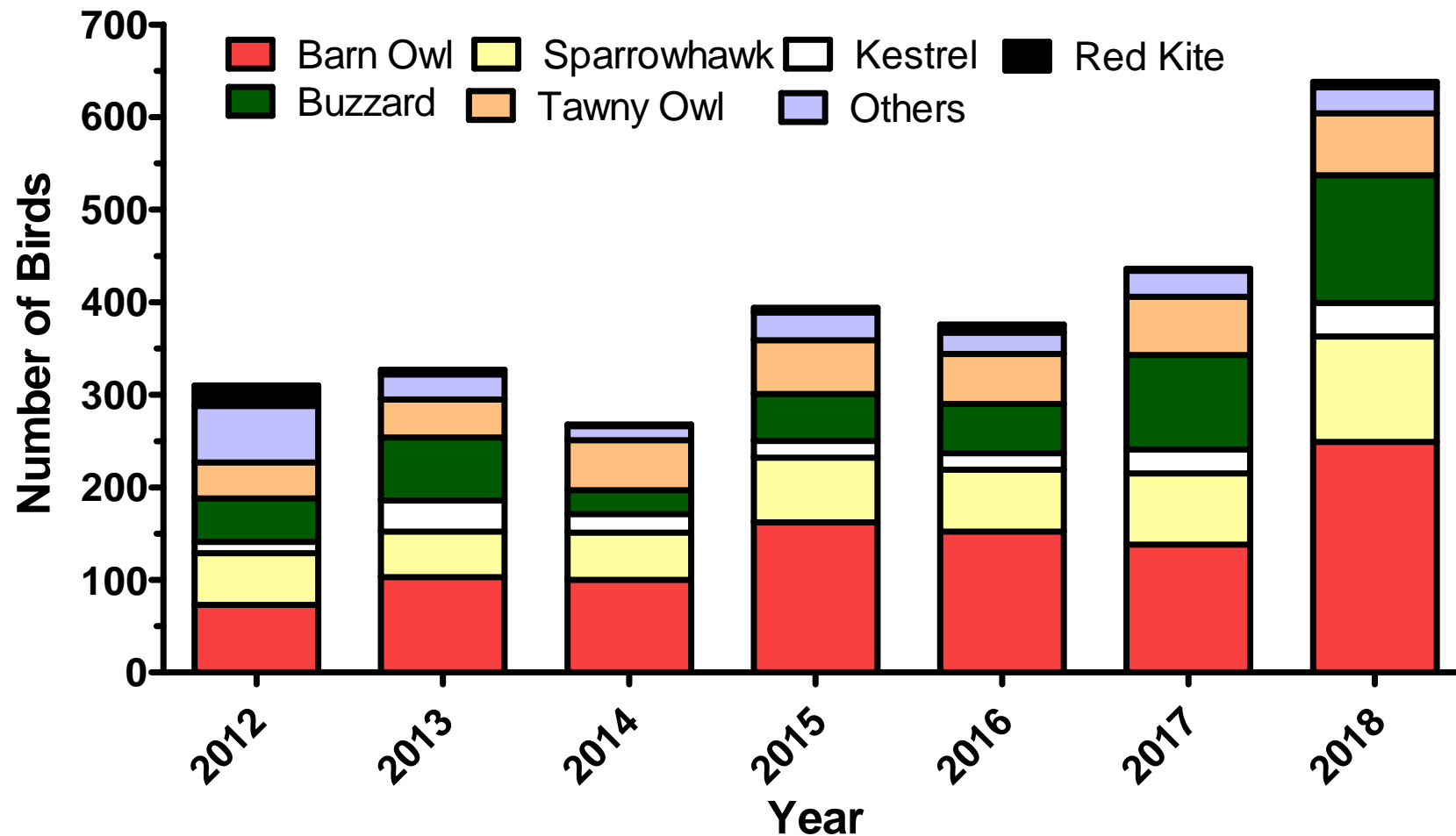
## Data analysis



## Chemical analysis



# What Birds Do We Receive?



# PBMS Sample Archive

Late  
1960s



Present

Samples:

- Egg contents
- Liver
- Kidney (combined)
- Brain
- Pectoral Muscle
- Bone
- Feather
- Fat





# PBMS – Sample sharing

- Wildlife Incident Investigation Scheme: Suspected poisonings
- University of Highlands and Islands: Pb in buzzards; PBMS supplies samples
- RDSVS: Drivers affecting Scottish raptor populations PhD; sample sharing
- APHA: West Nile Virus Surveillance & Avian Influenza
- Institute of Zoology: Trichomonosis surveillance



THE UNIVERSITY  
of EDINBURGH

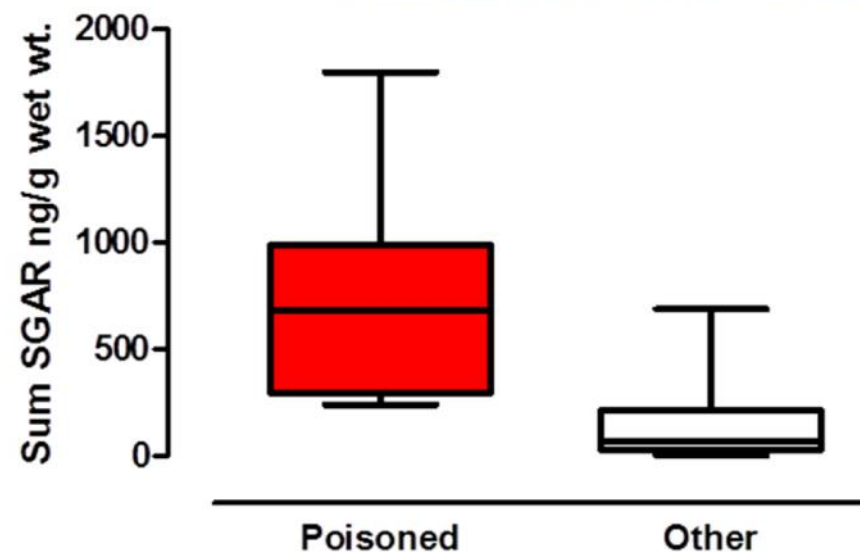
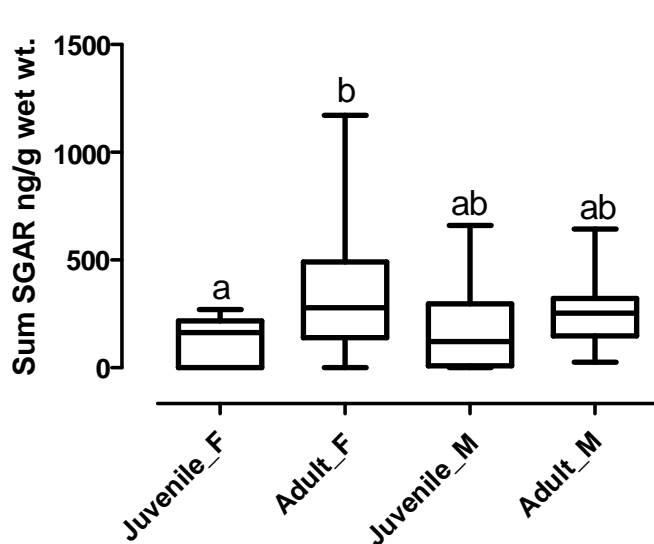


Animal &  
Plant Health  
Agency



# PBMS Results #1 – Rodenticides in red kites

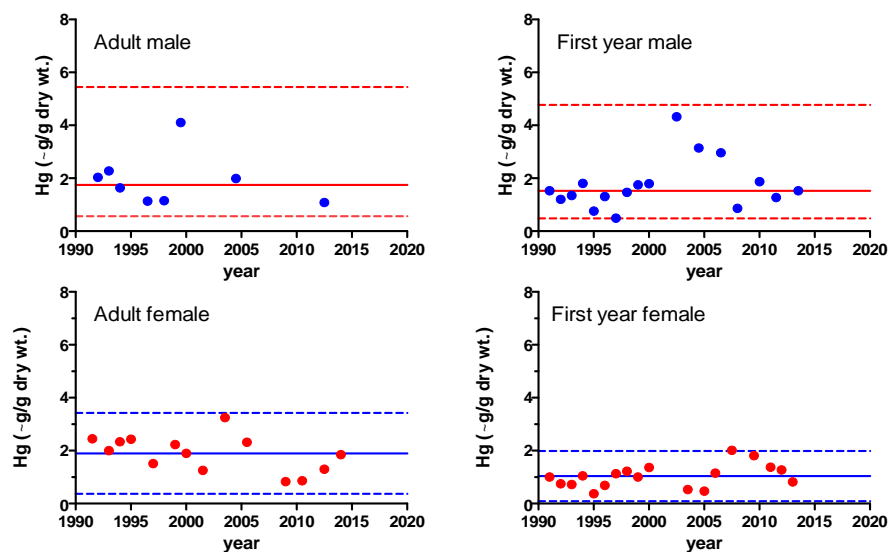
- Measuring SGARs in livers
- Drawing several sources of data - WILDCOMs network
- Characterizing exposure





# PBMS Results #2 – Mercury

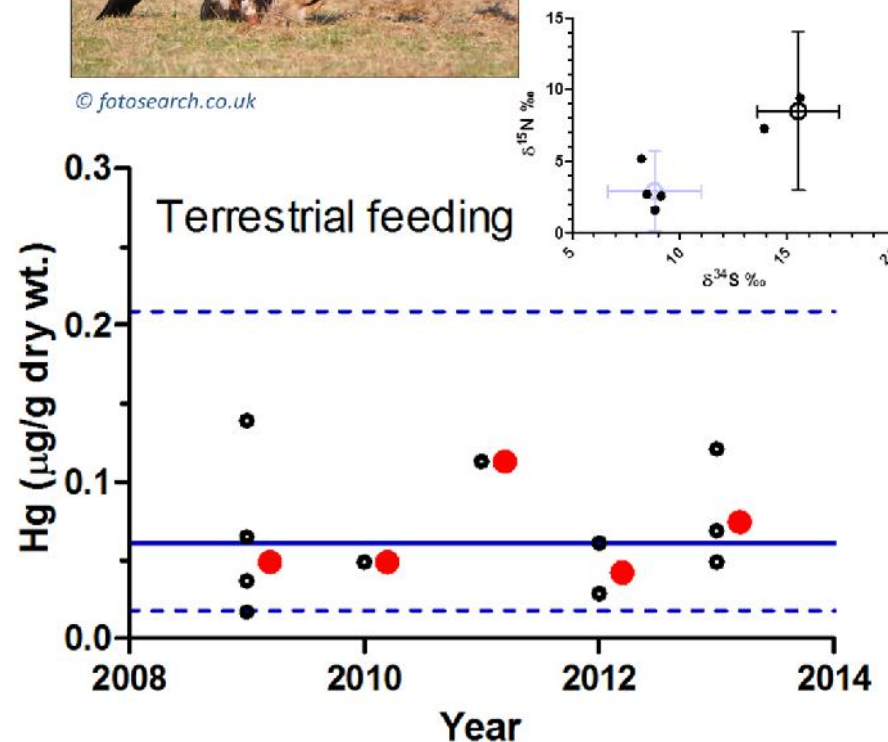
## Lowland sentinel



## Upland sentinel



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Questions?

