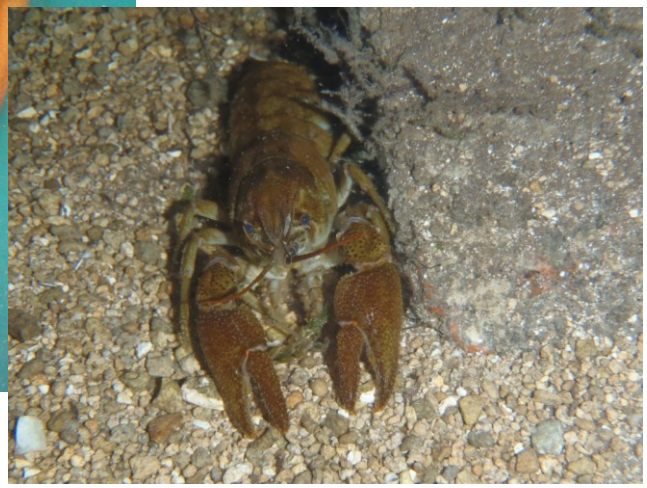
Current work on the control of invasive species of crayfish

Dr. Paul Stebbing



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Cefas Contract - Final Report C5471

Review of methods for the control of invasive crayfish in Great Britain

P. D. Stebbing[1]; M. Longshaw[1]; N. Taylor[1]; R. Norman[2]; R. Lintott[2]; F. Pearce[1]; A. Scott[1]

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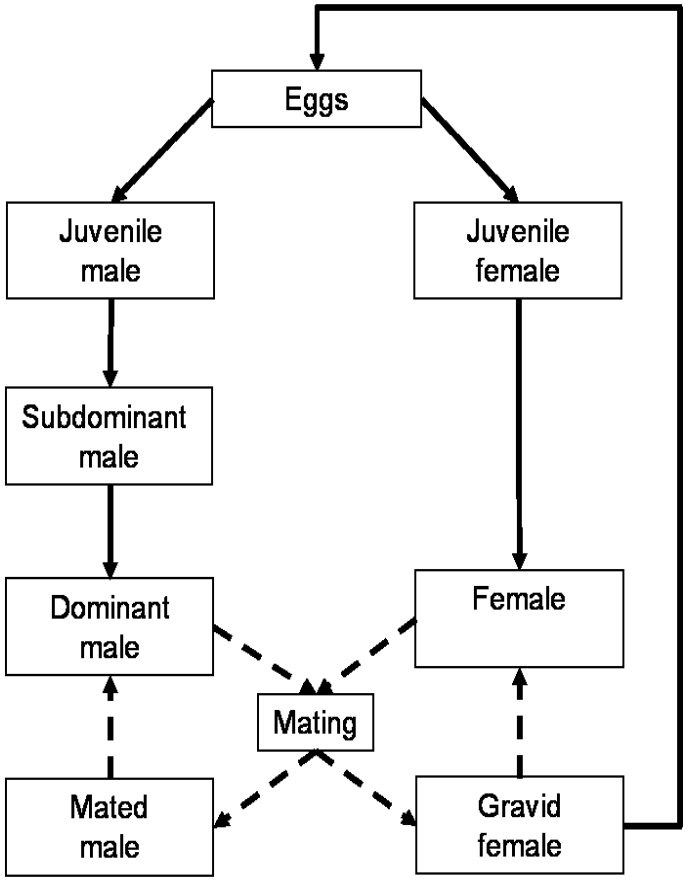
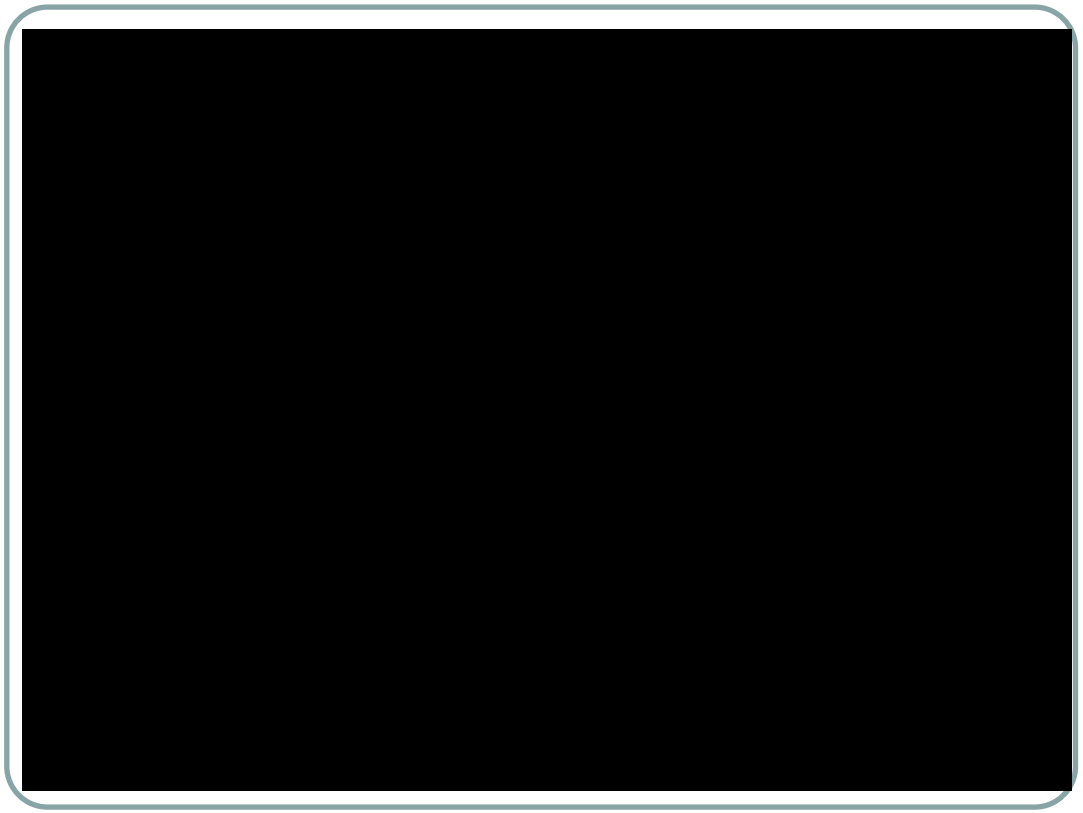
Modelling Crayfish dynamics





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ANGLING TRUST

defra
Department for Environment Food and Rural Affairs

NATURAL ENGLAND

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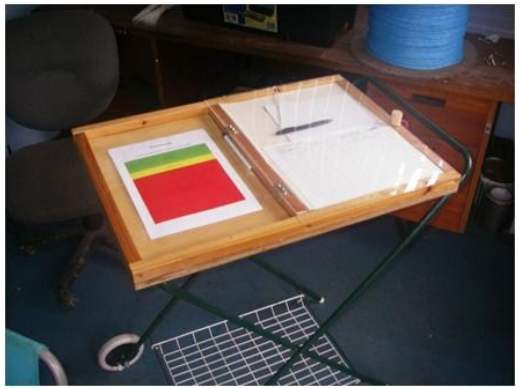
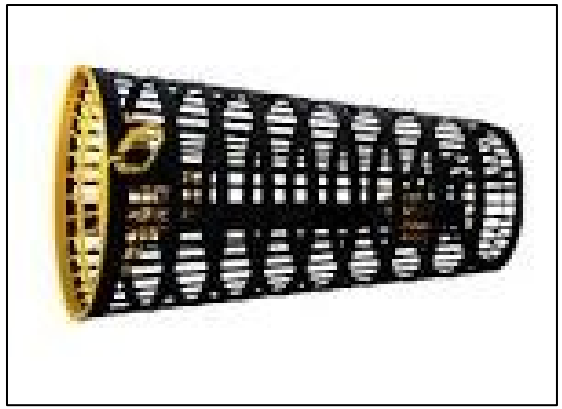
Environment Agency

Start up

- Identification of sites
- Development of protocol
  - Not too complicated
  - Robust
  - Standardised
  - Disposal of animals?
- Assessment of capability
  - How much can each site manage?
  - How will this effect results?
- Commencement of work
  - Provide information
  - Delivery of traps
  - Bait





What are we finding?

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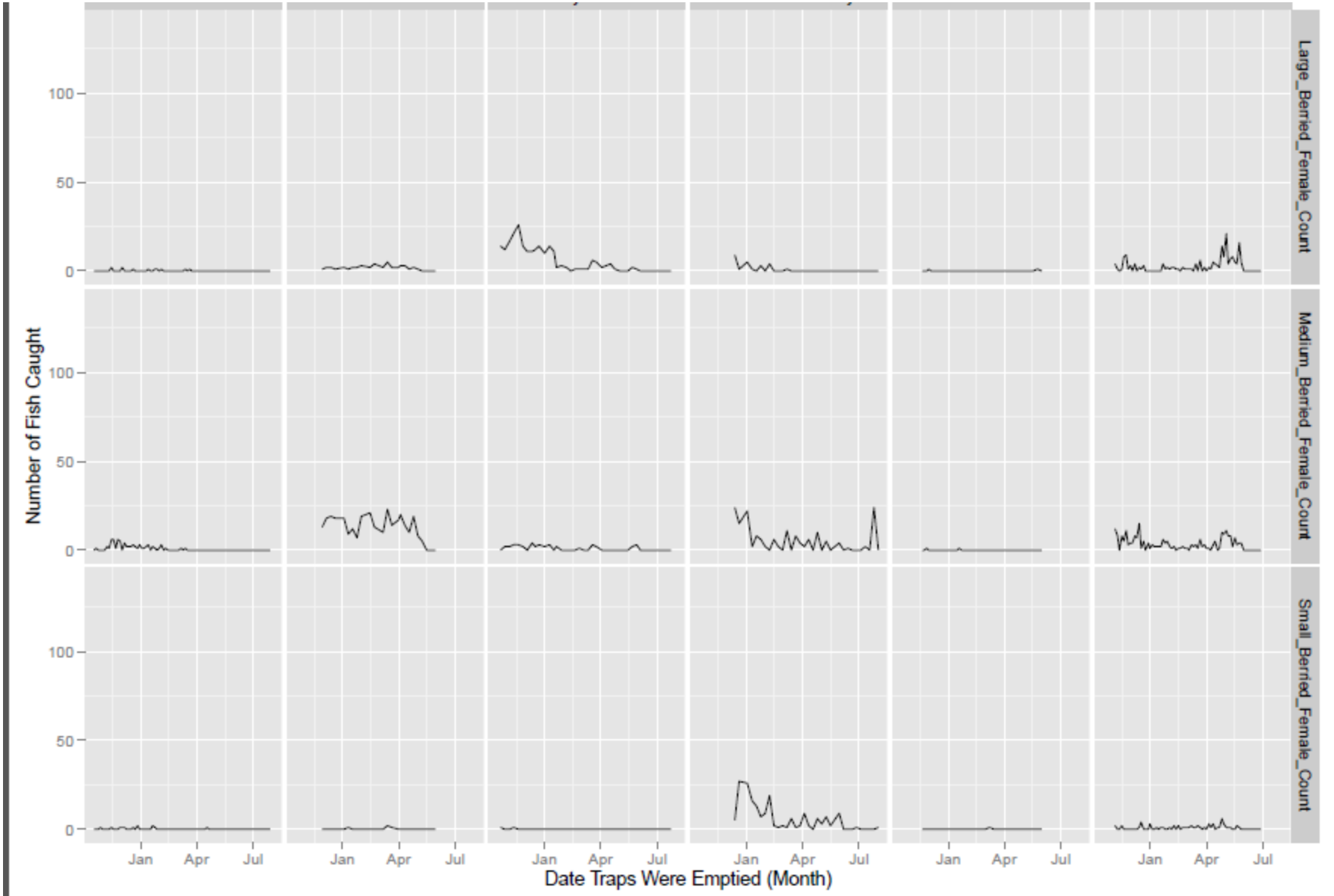
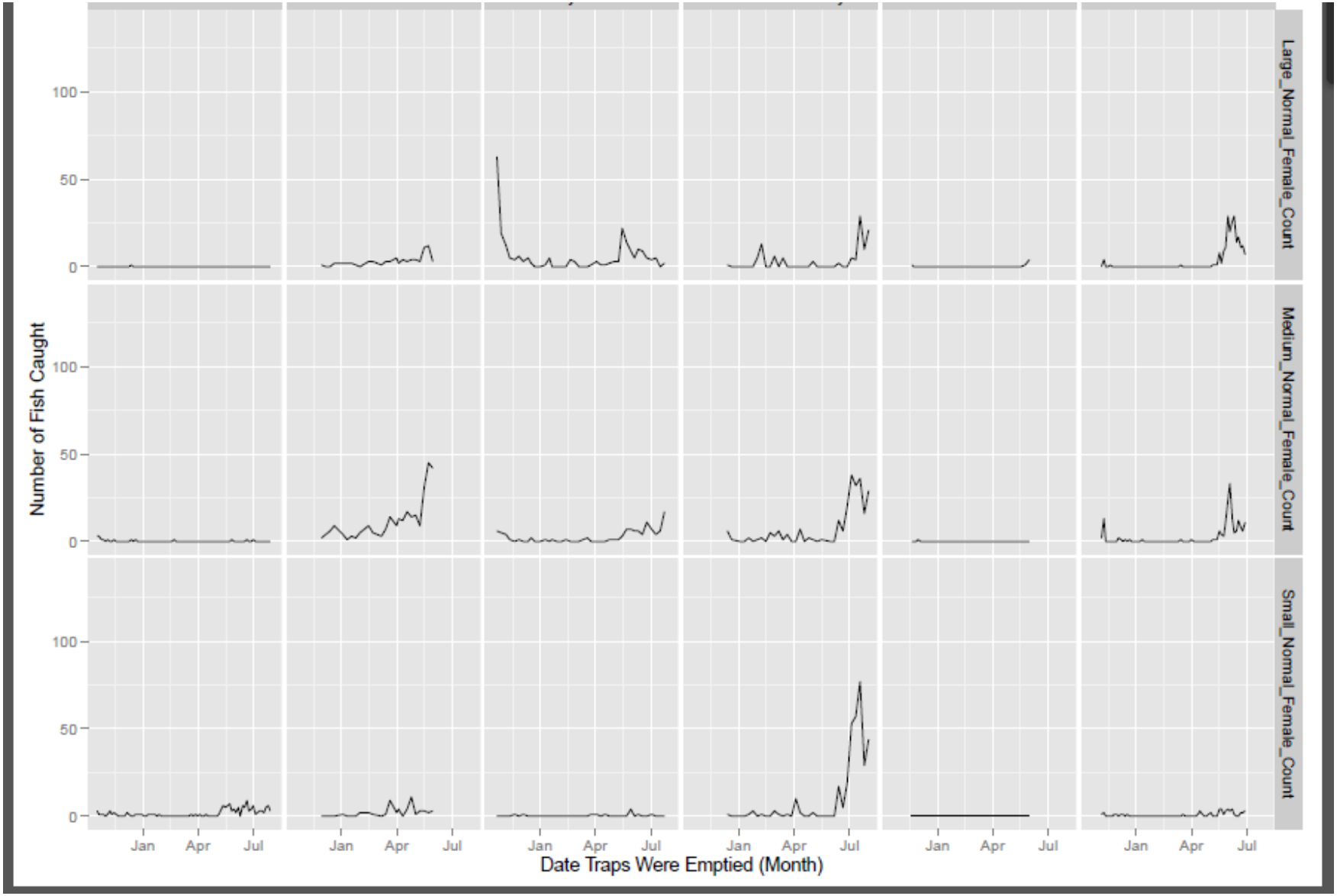
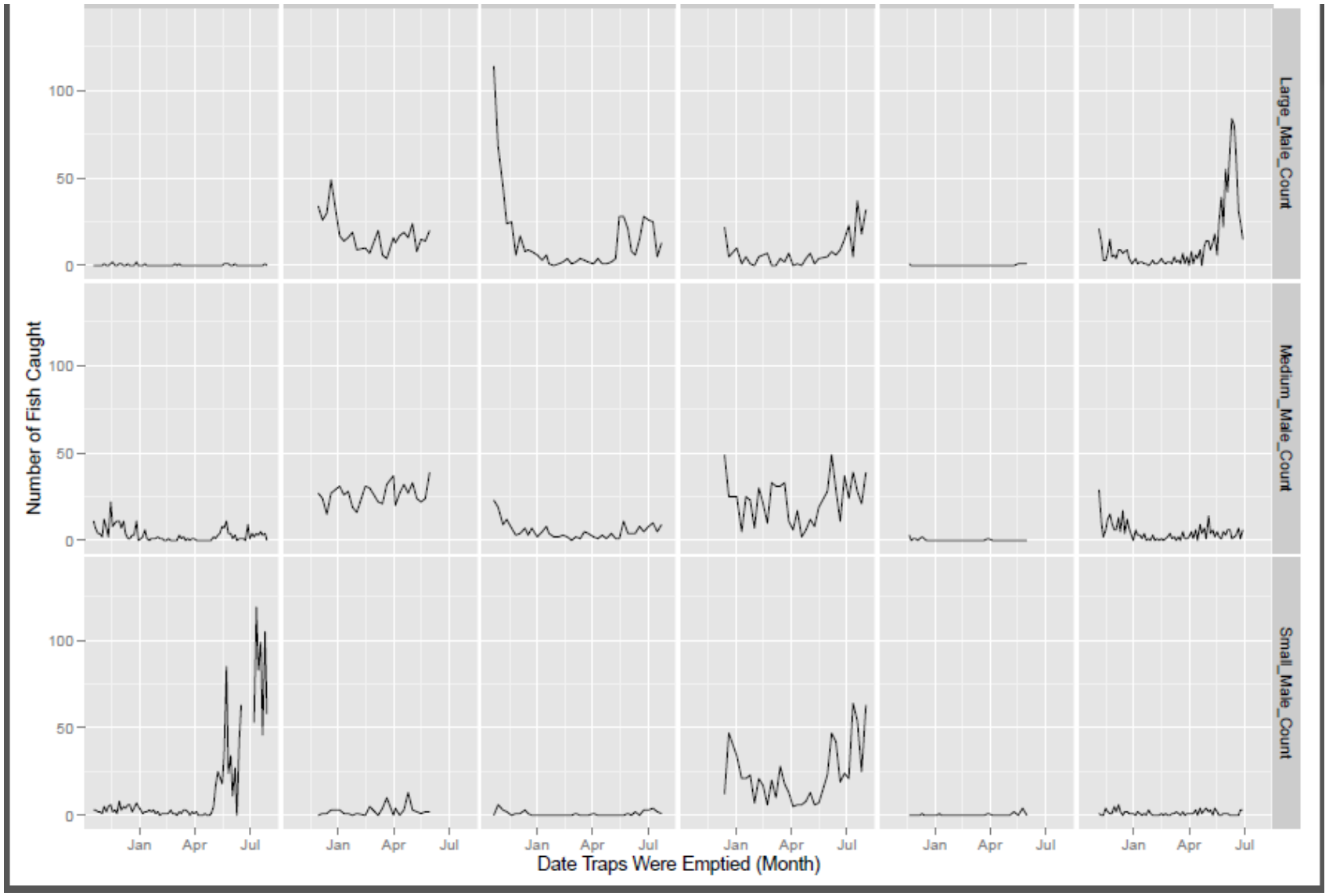
Name of Site	Number of Record Sheets	Date First Trap Was Set	Date Last Trap Was Emptied	Total Duration of Experiment (Days)	Shortest Trapping Interval	Longest Trapping Interval	
1	91	14/10/2013	29/08/2014	319	3	4	
2	24	22/11/2013	30/05/2014	189	7	14	
3	40	10/10/2013	23/07/2014	286	5	12	
4	32	06/12/2013	01/08/2014	238	6	14	
5	45	16/11/2013	26/07/2014	252	3	8	
6	68	29/10/2013	28/06/2014	242	6	8	


Large_Berried_Female_Count
Medium_Berried_Female_Count
Small_Berried_Female_Count
Number of Fish Caught
0
50
100
Jan
Apr
Jul
Date Traps Were Emptied (Month)

Cefas


Large_Normal_Female_Count
Medium_Normal_Female_Count
Small_Normal_Female_Count
Number of Fish Caught
0
50
100
Jan
Apr
Jul
Date Traps Were Emptied (Month)

Cefas


Number of Fish Caught
100
50
0
Jan
Apr
Jul
Date Traps Were Emptied (Month)
Large_Male_Count
Medium_Male_Count
Small_Male_Count

Cefas

Questions

- What are the pathways for the spread of invasive non-native species (INNS) for your discussion area (ie terrestrial / freshwater / marine)
-
- How has citizen science been used in the monitoring of INNS through these pathways?
  - Who has led these schemes? (eg national organisation, local recording group)
  - How have volunteers been approached / informed about the issues? (eg through apps, local organisations, wildlife trusts etc)
  - Which organisations/people have been needed to be involved to make the citizen science approach work? (eg port authorities, farmers etc)
-
- Which approaches / schemes have been most successful in using citizen science to monitor INNS?
-
- Has citizen science tested / implemented INNS control processes?
- What barriers have you come up against and how did you overcome them?
-
- What else could be done to enable citizen scientists to monitor INNS?

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