

National Water Vole Database and Mapping Project

PART 2: Maps 2005-2015



Catherine McGuire
June 2017



Acknowledgements

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Updating the project would not be possible without the time and dedication of the Local Environmental Records Centres, Wildlife Trusts, and other organisations who freely contribute their records to the project each year. Special thanks goes to the many volunteers involved in surveying and collating data, as well as the countless members of the public who continue to send their water vole and mink sightings to LERCs, Wildlife Trusts, PTES and other dedicated water vole recording schemes. All play an integral part in the project by providing the evidence we need to assess the state of the UK water vole population.

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No part of this document may be reproduced without permission. Information contained in this report is intended for the Environment Agency, the Royal Society of Wildlife Trusts, the UK Water Vole Steering Group, and data providers to the project. Requests for the raw data from which the Alert Maps are derived should be directed to the relevant Local Biological Records Centre. A GIS file of the derived alert layers and bespoke mapping services are available from Hampshire & Isle of Wight Wildlife Trust on request; a fee may be charged for this service. The maps and further copies of this document may be downloaded from the project website: www.wordpress.thewatervoleproject.co.uk. Please contact the Project Officer: Catherine.McGuire@hiwwt.org.uk for any queries relating to data or mapping.

Document Control

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1. INTRODUCTION

This document is Part 2 of the National Water Vole Database & Mapping Project 2006-2015 and comprises the Guide to Using the Distribution and Alert Maps, followed by the maps themselves.

The document and maps should be read in conjunction with Part 1 of the National Water Vole Database & Mapping Project 2006-2015.

2. GUIDE TO THE USE OF THE DISTRIBUTION AND ALERT MAPS

The following tables explain the uses and limitations of the project maps:

Table 1: UK Water vole distribution maps: quick guide

Table 2: UK American Mink distribution maps: quick guide

Table 3: Water vole alert maps: quick guide

Table 4: Water vole local key area maps: quick guide

Table 5: Water vole regional key area maps: quick guide

Table 1: UK Water vole distribution maps: quick guide

UK WATER VOLE DISTRIBUTION MAPS					
Map title	Page	Resolution	Display format	Uses	Caution
UK- Water vole presence all records (1861-2012)	8	Derived from records \geq 100m resolution	Dots	For: -providing overview of distribution across UK since records began -helping to plan further survey/ research at national level.	Does not: -purport to capture all areas historically or currently occupied by water voles (to an extent reflects recorder effort) -indicate abundance -show status over time.
UK- Water vole presence all records (1861-2011)	9	Derived from records \geq 1km resolution	10km squares	For: -providing overview of distribution across UK since records began -reporting against UK BAP targets -helping to plan further survey/ research at national level.	Does not: -purport to capture all areas historically or currently occupied by water voles (to an extent reflects recorder effort) -indicate abundance -show status over time.
UK- Water vole presence (2008-2012)	10	Derived from records \geq 100m resolution	Dots	For: -providing overview of distribution across UK over the last 5 years -helping to plan further survey/ research at national level.	Does not: -purport to capture all areas historically or currently occupied by water voles (to an extent reflects recorder effort) -indicate abundance -show status over time.
UK- Water vole presence (2008-2012)	11	Derived from records \geq 1km resolution	10km squares	For: -providing overview of distribution across UK over the last 5 years -reporting against UK BAP targets -helping to plan further survey/ research at national level.	Does not: -purport to capture all areas historically or currently occupied by water voles (to an extent reflects recorder effort) -indicate abundance -show status over time.
UK- Water vole absence all records (1861-2012)	12	Derived from records \geq 100m	Dots	For: -indicating where absence recorded during survey.	Does not: -indicate areas where water voles have been absent historically or are currently absent.
UK- Water vole absence (2008-2012)	13	Derived from records \geq 100m	Dots	For: - indicating where absence recorded during survey.	Does not: -indicate areas where water voles have been absent historically or are currently absent.

Table 2: UK American Mink distribution maps: quick guide

UK AMERICAN MINK DISTRIBUTION MAPS					
Map title	Page	Resolution	Display format	Uses	Caution
UK-American mink presence all records (1952-2012)	15	Derived from records \geq 100m	Dots	For: -providing overview of distribution across UK since records began -helping to plan further survey / research at national level.	Does not: -separate mink survey records from mink trapping records. Mink 'presence' may in some cases represent an animal that has been 'removed' from the population.
UK-American mink presence all records (1952-2012)	16	Derived from records \geq 1km resolution	10km squares	For: -providing overview of distribution across UK since records began -helping to plan further survey / research at national level.	Does not: -separate mink survey records from mink trapping records. Mink 'presence' may in some cases represent an animal that has been 'removed' from the population.
UK-American mink presence (2008-2012)	17	Derived from records \geq 100m	Dots	For: -providing overview of distribution across UK over the last five years -helping to plan further survey/ research at national level	Does not: -separate mink survey records from mink trapping records. Mink 'presence' may in some cases represent an animal that has been 'removed' from the population.
UK-American mink presence (2008-2012)	18	Derived from records \geq 1km resolution	10km squares	For: -providing overview of distribution across UK -helping to plan further survey / research at national level	Does not: - separate mink survey records from mink trapping records. Mink 'presence' may in some cases represent an animal that has been 'removed' from the population.
UK-American mink absence (1952-2011)	19	Derived from records \geq 100m	Dots	For: - indicating where absence recorded during survey.	Does not: - indicate areas where mink have been absent historically or are currently absent.
UK-American mink absence (2008-2012)	20	Derived from records \geq 100m	Dots	For: - indicating where absence recorded during survey.	Does not: - indicate areas where mink have been absent historically or are currently absent

Table 3: Water vole alert maps: quick guide

Water Vole Alert Maps				
Map title	Page	Data displayed	Uses	Caution
South West RBD Water Vole Alert Map	22	Derived from records $\geq 100m$ with buffers added.	For: -identifying at least some of the potentially suitable habitat within water vole dispersal distance of populations recorded over the last five years -alerting users to potential presence of water voles -assisting with the collation of data for agri-environment schemes -alerting organisations that undertake regular maintenance tasks to the potential presence of water voles -planning future water vole survey and monitoring.	These maps do not: -confer any statutory or non-statutory designation -provide a precise boundary defining presence/absence of water voles and/or their habitat e.g. the 0.5 wide buffer along occupied watercourses will not always capture the extent of adjacent suitable habitat. -identify other potentially suitable habitat into which populations may move in the future -remove the need to consider other mapping/imagery to assess habitat suitability -remove the need to undertake new surveys prior to determining development/engineering/habitat works. Sub populations can disappear from sites and/or re appear from one survey season to the next. Populations may also move in response to relatively small changes in habitat quality. SCOTLAND: There has been a limited update to the alert maps for Scotland with new records arising from the PTES National Water Vole Monitoring Programme only.
South East RBD Water Vole Alert Map	25			
Wales Water Vole Alert Map	28			
Severn RBD Water Vole Alert Map	31			
Thames RBD Water Vole Alert Map	34			
Anglian RBD Water Vole Alert Map	37			
Dee RBD Water Vole Alert Map	40			
North West RBD Water Vole Alert Map	43			
Humber RBD Water Vole Alert Map	46			
Solway Tweed RBD Water Vole Alert Map	49			
Northumbria RBD Water Vole Alert Map	52			
Scotland Water Vole Alert Map	55			

Table 4: Water vole local key area maps: quick guide

Water Vole Local Key Area Maps				
Map title	Page	Data displayed	Uses	Caution
Water Vole Local Key Areas: South West RBD	23	Alert areas over 6km ² derived from records ≥ 100m with buffers added	For: - indicating areas ≥ 6 km ² that are likely to support larger populations/clusters of populations that have a greater chance of persisting long term -encouraging protection and/or sensitive management of potentially suitable habitat within and adjacent to sites where water voles recorded in the last five years -assisting with designation of local wildlife sites -targeting survey and monitoring efforts -targeting habitat enhancement and creation works -targeting mink control efforts -assisting with the development of agri environment scheme applications	These maps do not: -confer any statutory or non statutory designation -provide a precise boundary defining presence/absence of water voles and/or their habitat (as outlined in Table 5) -identify other potentially suitable habitat into which populations may move in the future -remove the need to consider other mapping/imagery to assess habitat suitability -remove the need to undertake new surveys prior to determining development/engineering/habitat works. Sub populations can disappear from sites and/or re appear from one survey season to the next. Populations may move in response to small changes in habitat quality. -show smaller populations, which may decline due to stochastic events. -highlight small colonies or small clusters, which are highly unlikely to persist without positive intervention. <i>In some areas these small colonies may be essential in aiding recovery of populations and may also regarded as locally important.</i> SCOTLAND: There has been a limited update to the alert maps for Scotland with new records arising from the PTES National Water Vole Monitoring Programme only.
Water Vole Local Key Areas: South East RBD	26			
Water Vole Local Key Areas: Wales	29			
Water Vole Local Key Areas: Severn RBD	32			
Water Vole Local Key Areas: Thames RBD	35			
Water Vole Local Key Areas: Anglian RBD	38			
Water Vole Local Key Areas: Dee RBD	41			
Water Vole Local Key Areas: North West	44			
Water Vole Local Key Areas: Humber RBD	47			
Water Vole Local Key Areas: Solway Tweed RBD	50			
Water Vole Local Key Areas: Northumbria RBD	53			
Water Vole Local Key Areas: Scotland	56			

Table 5: Water vole regional key area maps: quick guide

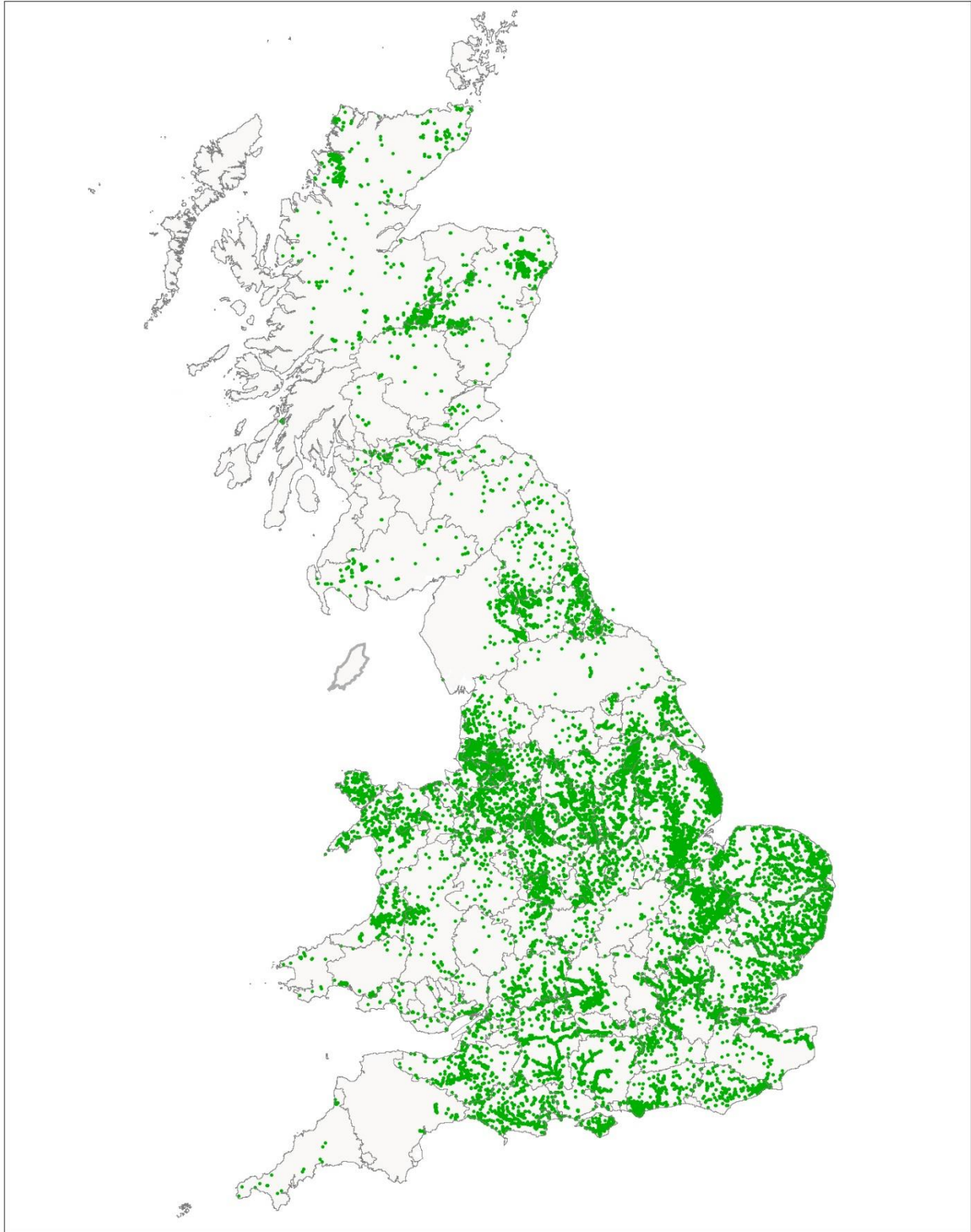
Water Vole Regional Key Area Maps				
Map title	Page	Data displayed	Uses	Caution
Water Vole Regional Key Areas: South West RBD	24	Alert areas over 35km ² derived from records ≥ 100m with buffers added	For: -indicating areas ≥ 35 km ² where populations are more likely to survive the impacts of stochastic events and to persist > 40 years. -prioritising long term strategic policy initiatives -facilitating collaborative working -prioritising resource allocation -targeting mink control efforts at regional level -assisting with designation of statutory and non-statutory sites -targeting survey and monitoring efforts at regional level -targeting habitat works at regional level -encouraging protection and/or sensitive management of potentially suitable habitat within and adjacent to occupied water vole sites -assisting with the development of agri environment scheme applications	These maps do not: -confer any statutory or non statutory designation -provide a precise boundary defining the presence or absence of water voles and/or their habitat (as outlined in Table 5) -identify other potentially suitable habitat into which populations may move in the future -remove the need to consider other mapping/imagery to assess habitat suitability -remove the need to undertake new surveys prior to determining development/engineering/habitat works -show smaller populations, which may decline due to stochastic events, -highlight small colonies or small clusters, which are highly unlikely to persist without positive intervention. <i>In some areas these small colonies may be essential in aiding recovery of populations. They may represent all or most of the remaining populations in the area and may also be regarded as regionally important.</i>
Water Vole Regional Key Areas: South East RBD	27			
Water Vole Regional Key Areas: Wales	30			
Water Vole Regional Key Areas: Severn RBD	33			
Water Vole Regional Key Areas: Thames RBD	36			
Water Vole Regional Key Areas: Anglian RBD	39			
Water Vole Regional Key Areas: Dee RBD	42			
Water Vole Regional Key Areas: North West	45			
Water Vole Regional Key Areas: Humber RBD	48			
Water Vole Regional Key Areas: Solway Tweed RBD	51			
Water Vole Regional Key Areas: Northumbria RBD	54			
Water Vole Regional Key Areas: Scotland	57			
United Kingdom Water Vole Regional Key Areas	58	Derived from records ≥ 100m with buffers added.	Strategic overview of water vole regional key areas.	Cautions as above.

3. UK WATER VOLE DISTRIBUTION MAPS

United Kingdom: Water Vole Presence

All Records Jan 1861 - Dec 2015

75,063 Presence Records



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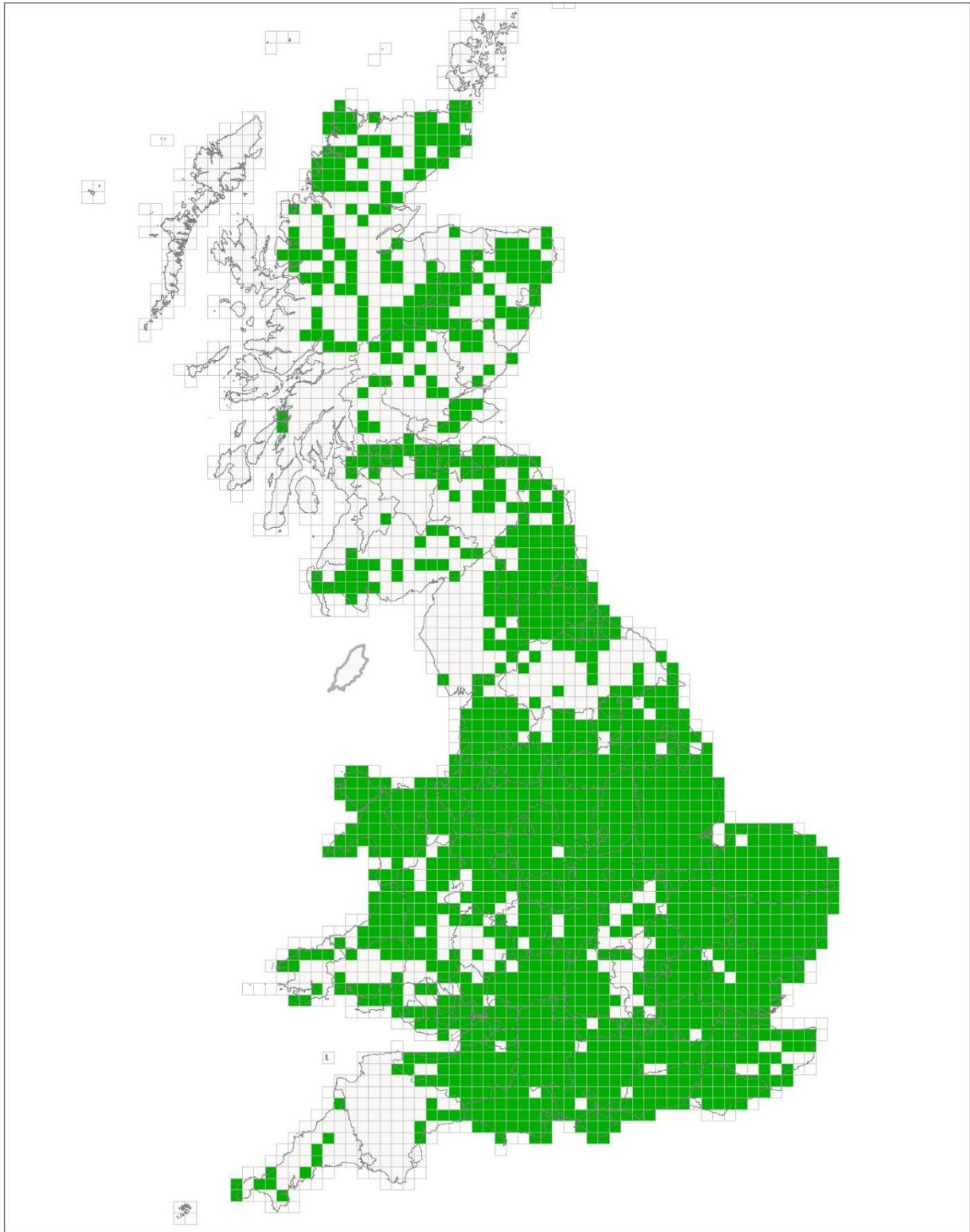
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United Kingdom: Water Vole Presence

All Records Jan 1861 - Dec 2015

1,536 occupied 10 km grid squares



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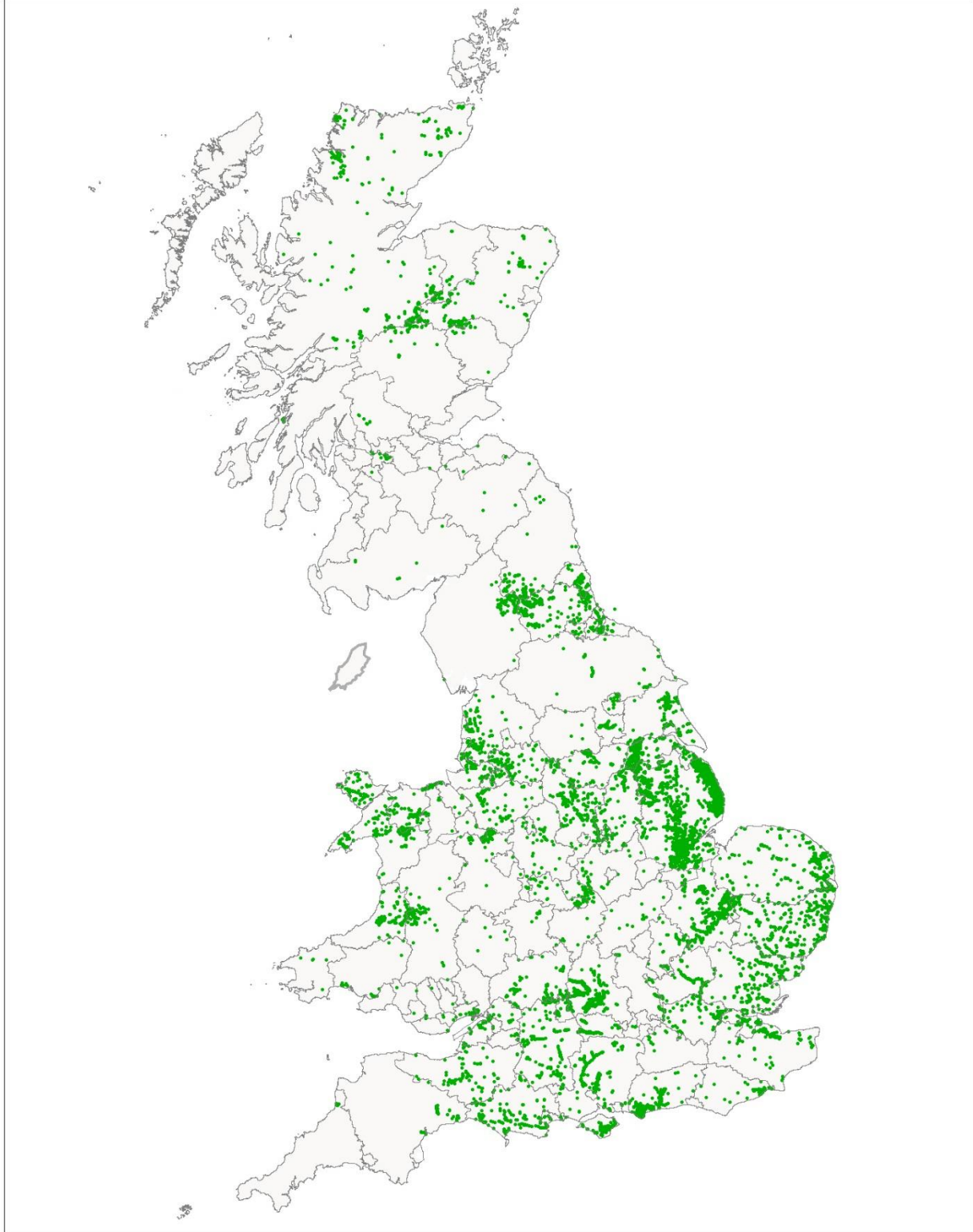
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United Kingdom: Water Vole Presence

Jan 2006 - Dec 2015

42,684 Presence Records



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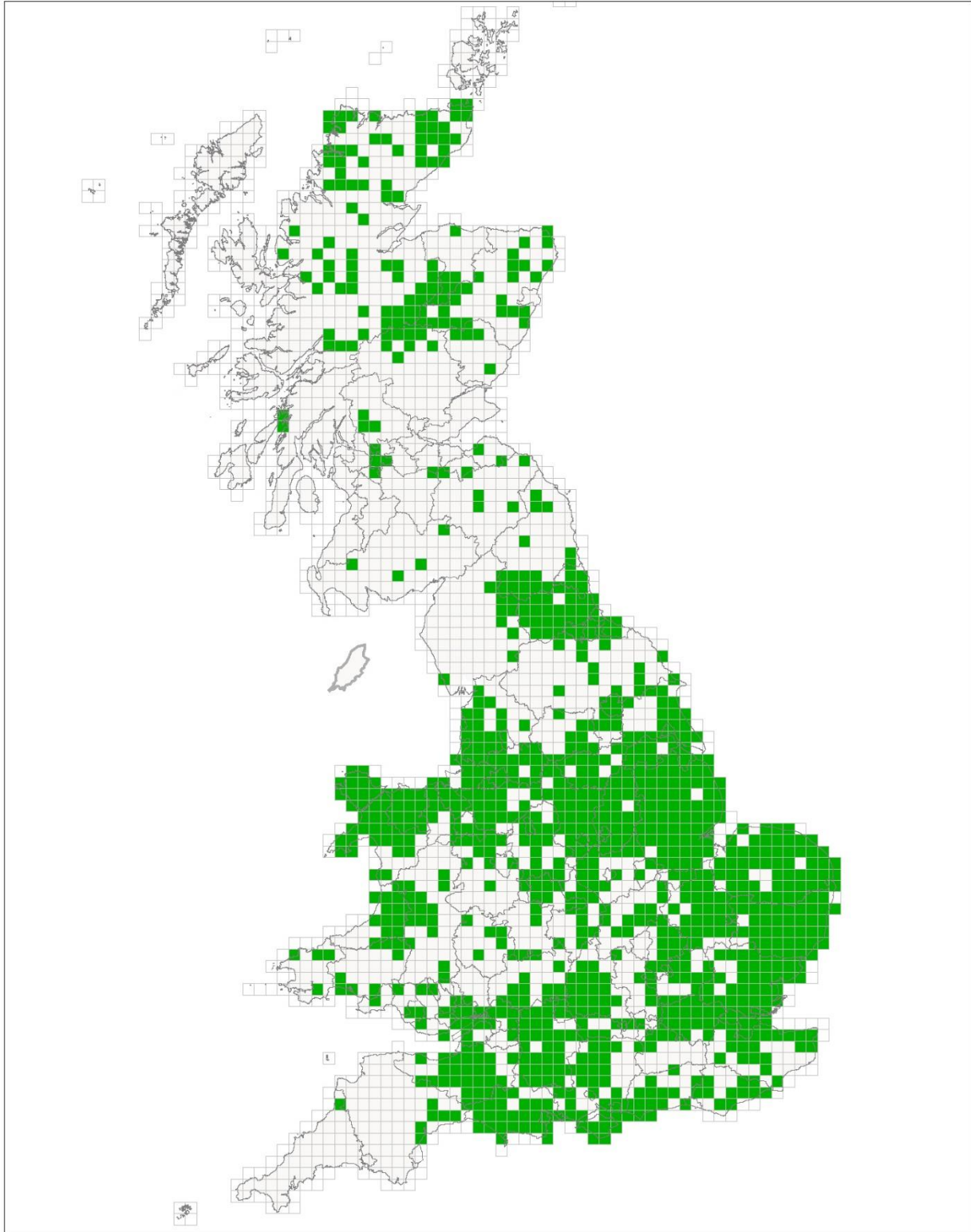
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United Kingdom: Water Vole Presence

Jan 2006 - Dec 2015

1,033 occupied 10 km grid squares



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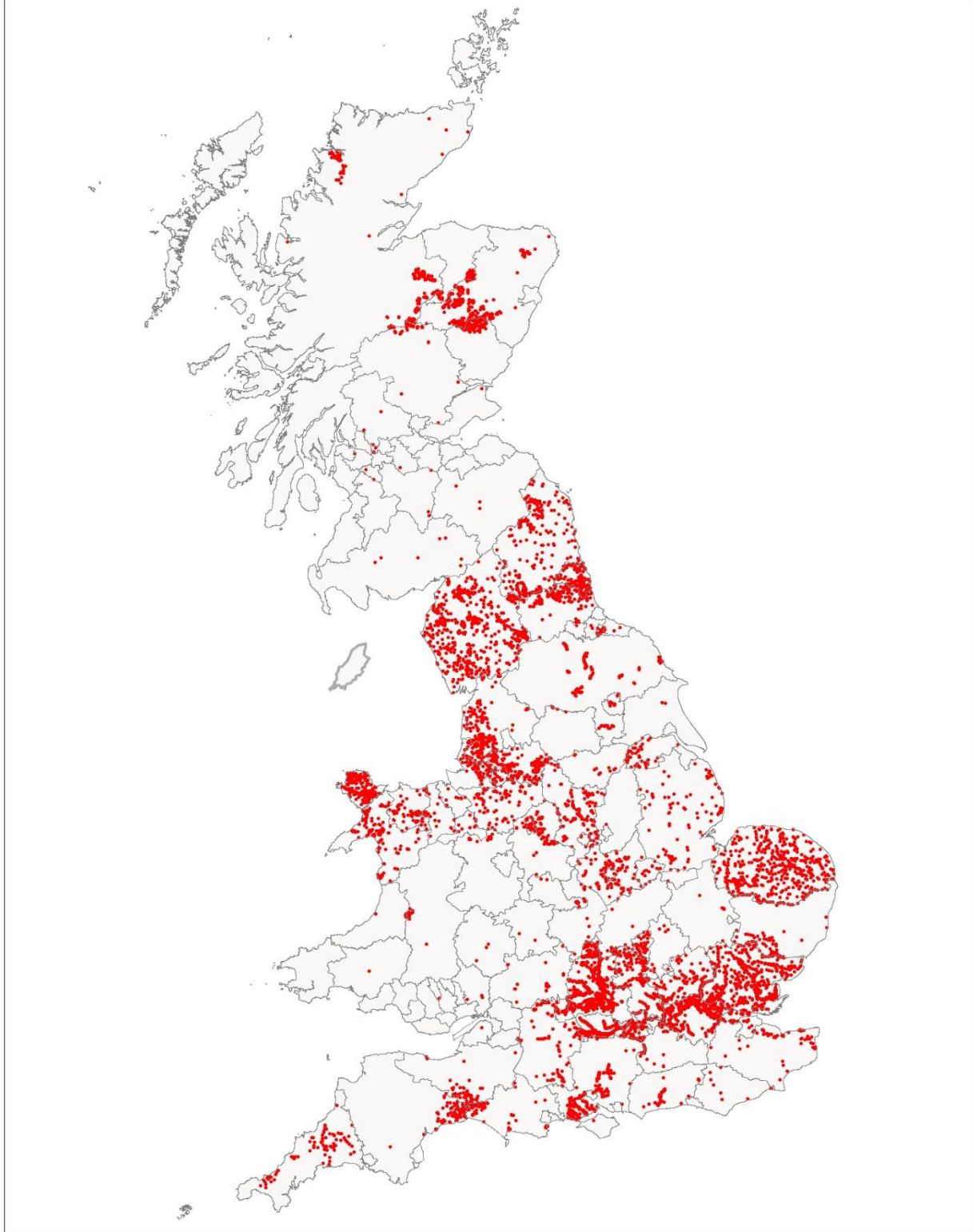
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United Kingdom: Water Vole Absence

All Records Jan 1861 - Dec 2015

13,541 Absence Records



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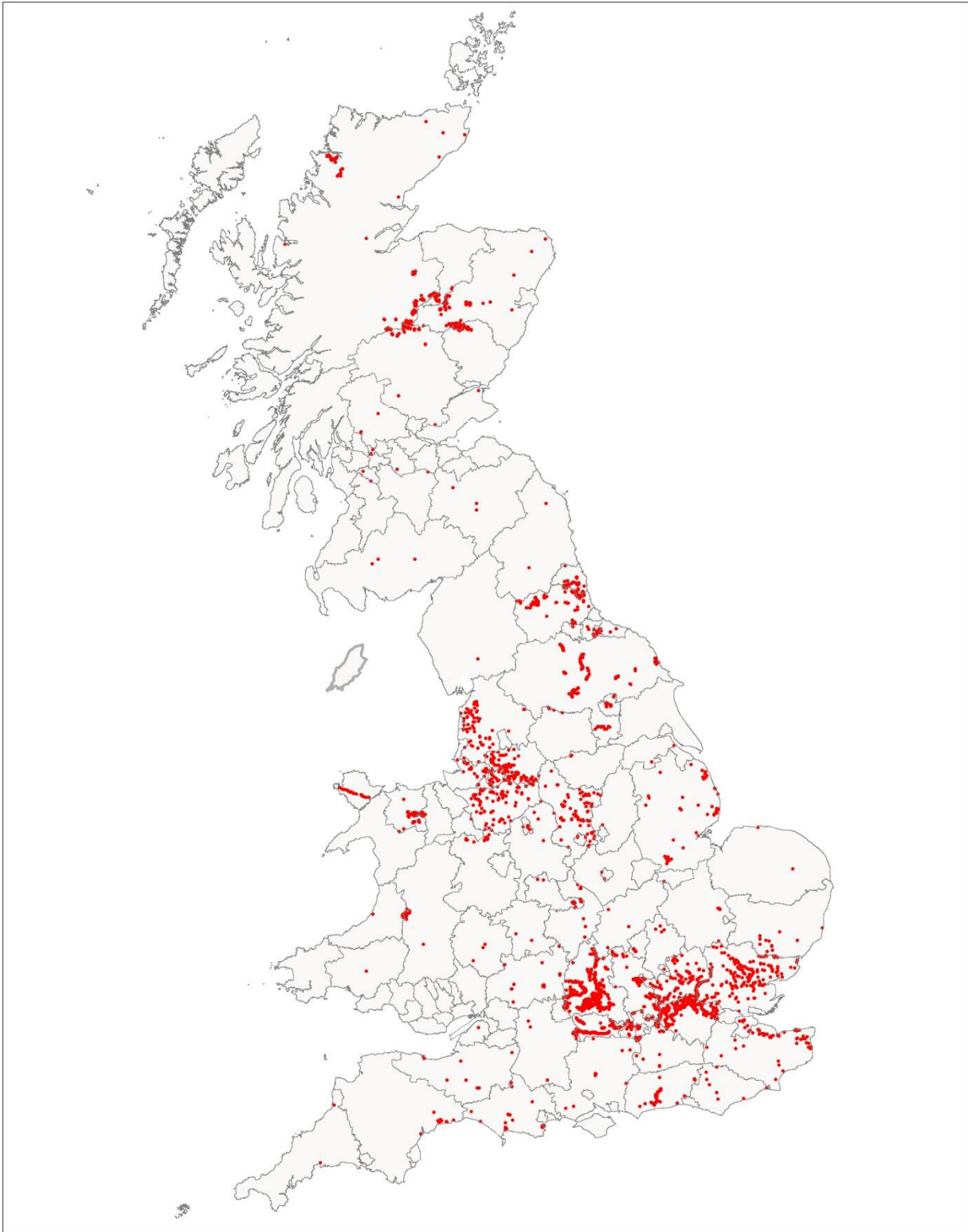
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United Kingdom: Water Vole Absence

Jan 2006 - Dec 2015

5,642 Absence Records



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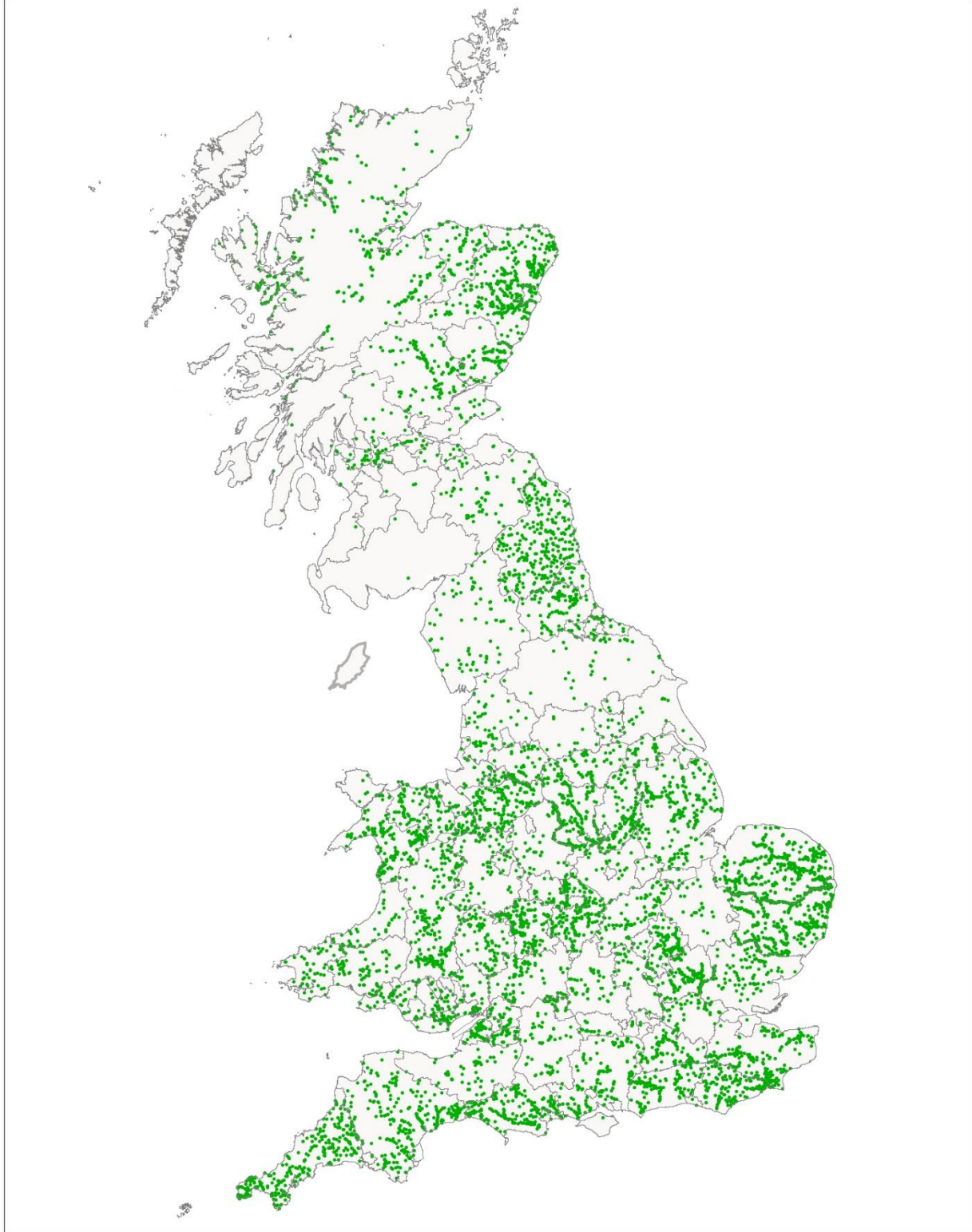


4. UK AMERICAN MINK DISTRIBUTION MAPS

United Kingdom: American Mink Presence

All Records Jan 1905 - Dec 2015

16,377 Presence Records



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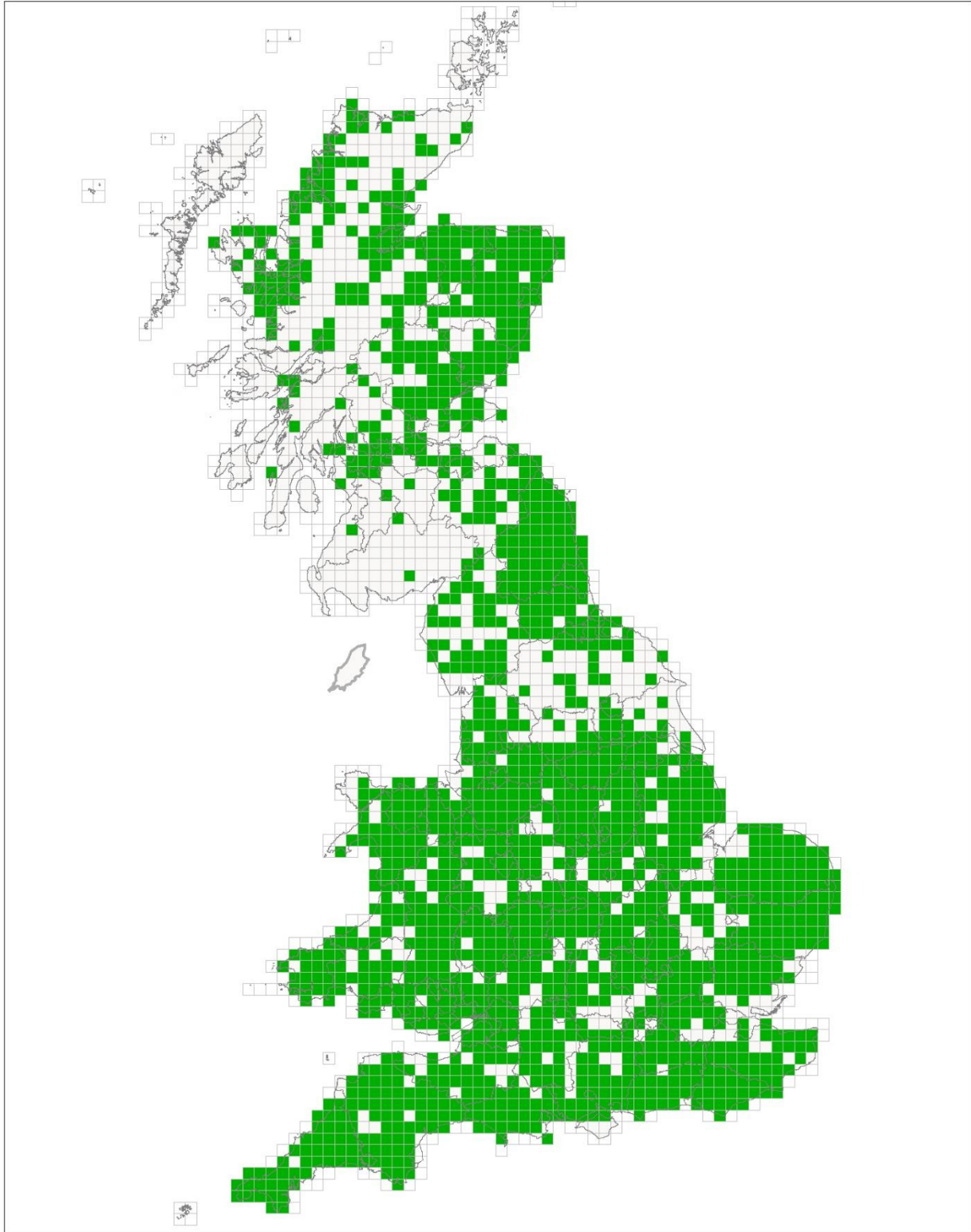
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United Kingdom: American Mink Presence

All Records Jan 1905 - Dec 2015

1,614 occupied 10 km grid squares



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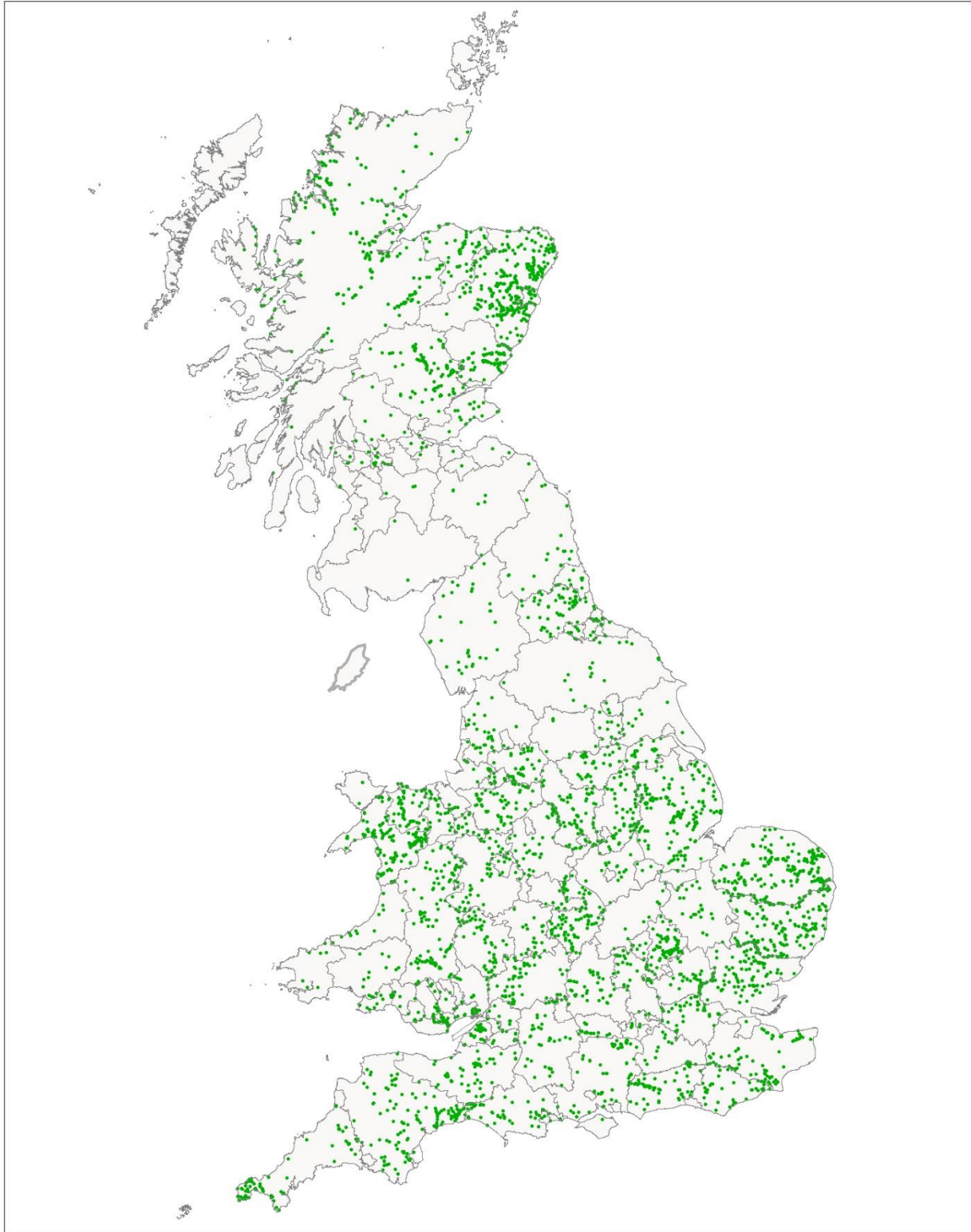
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United Kingdom: American Mink Presence

Jan 2006 - Dec 2015

6,659 Presence Records



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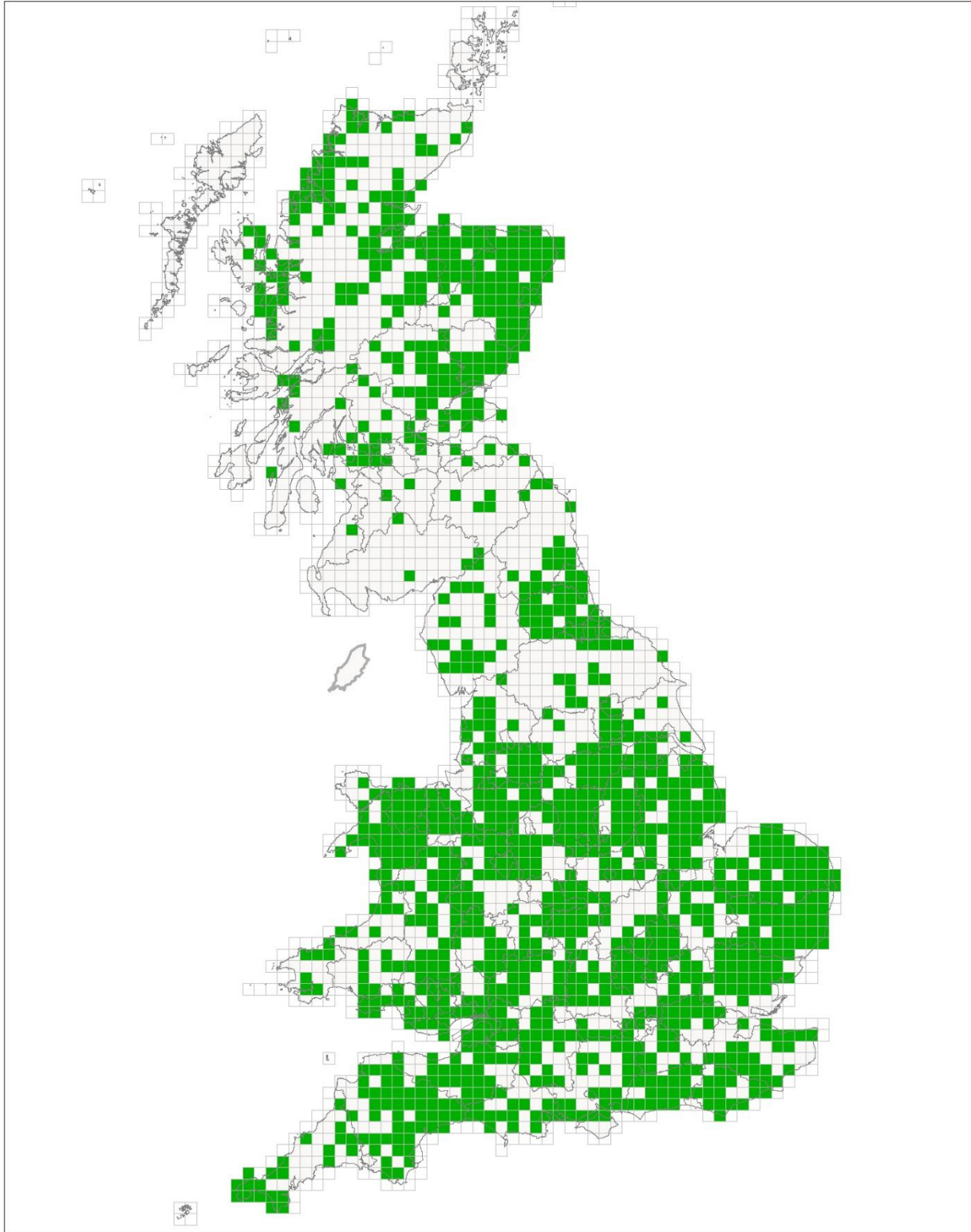
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United Kingdom: American Mink Presence

Jan 2006 - Dec 2015

1,234 occupied 10 km grid squares



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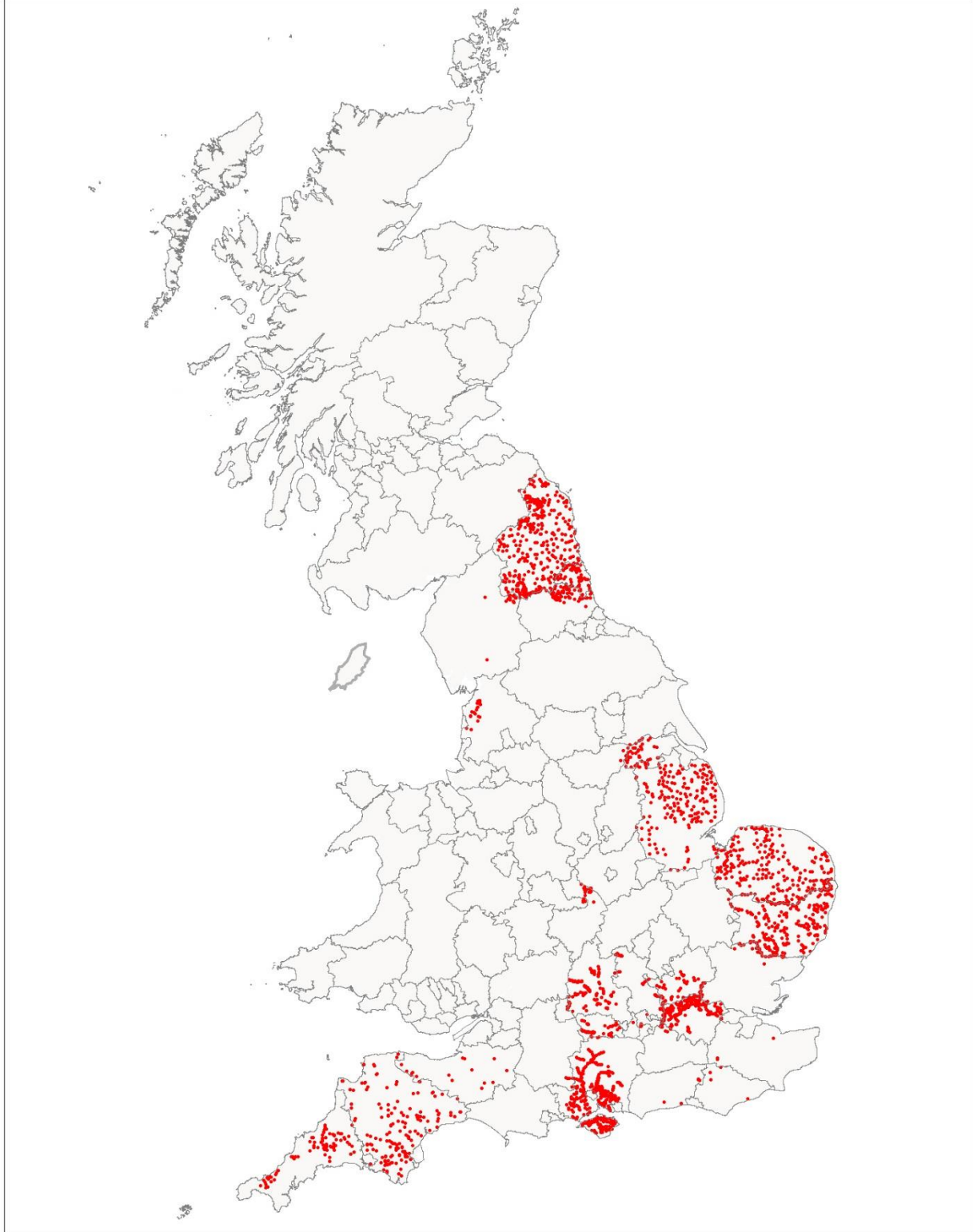
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United Kingdom: American Mink Absence

All Records Jan 1905 - Dec 2015

1,614 Absence Records



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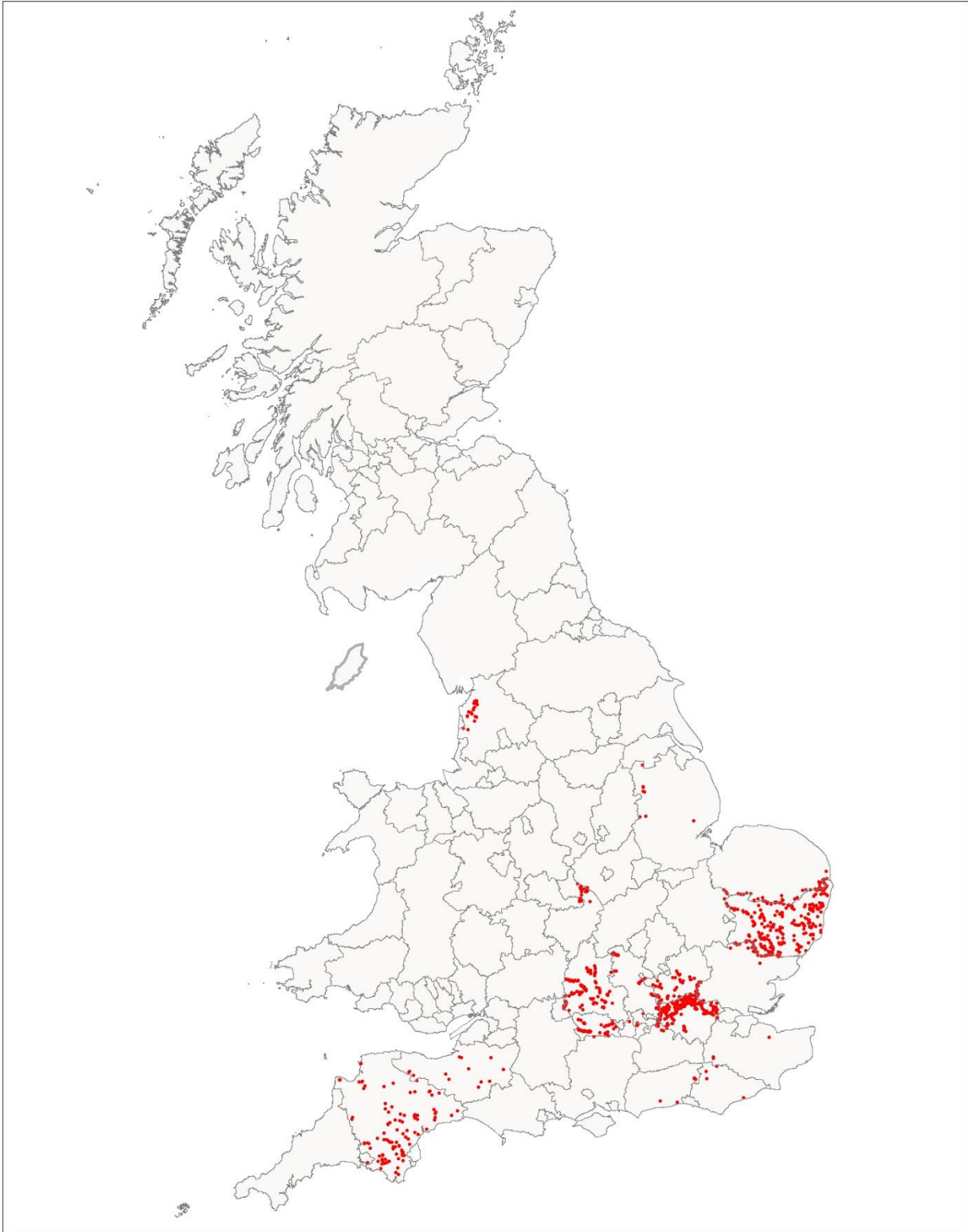
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United Kingdom: American Mink Absence

Jan 2006 - Dec 2015

2,290 Absence Records



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5. WATER VOLE ALERT & KEY AREA MAPS

5.1 SOUTH WEST RIVER BASIN DISTRICT

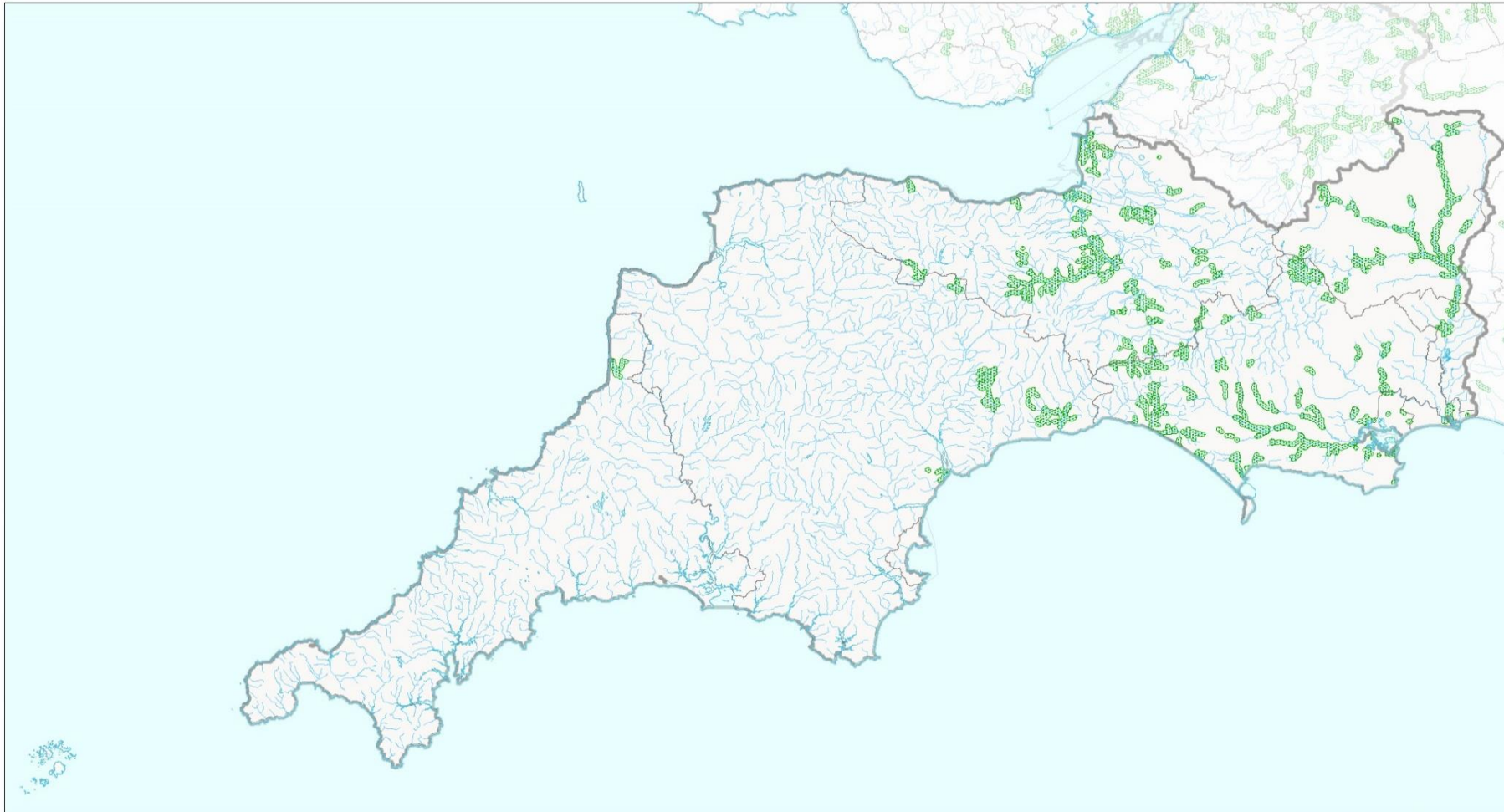
Water Vole Alert Map: South West RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,268,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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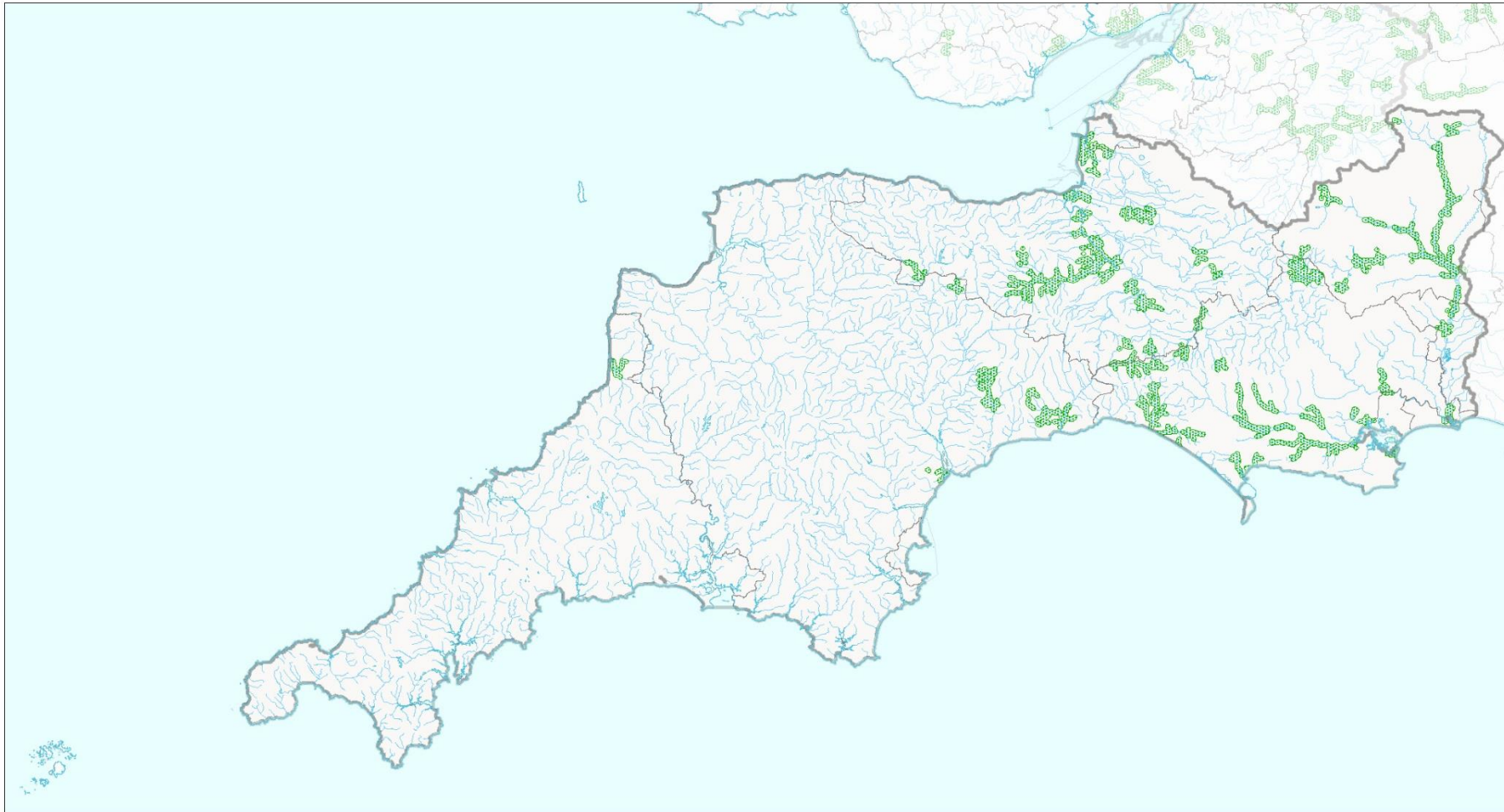
Water Vole Local Key Areas (>6 sq. km): South West RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,268,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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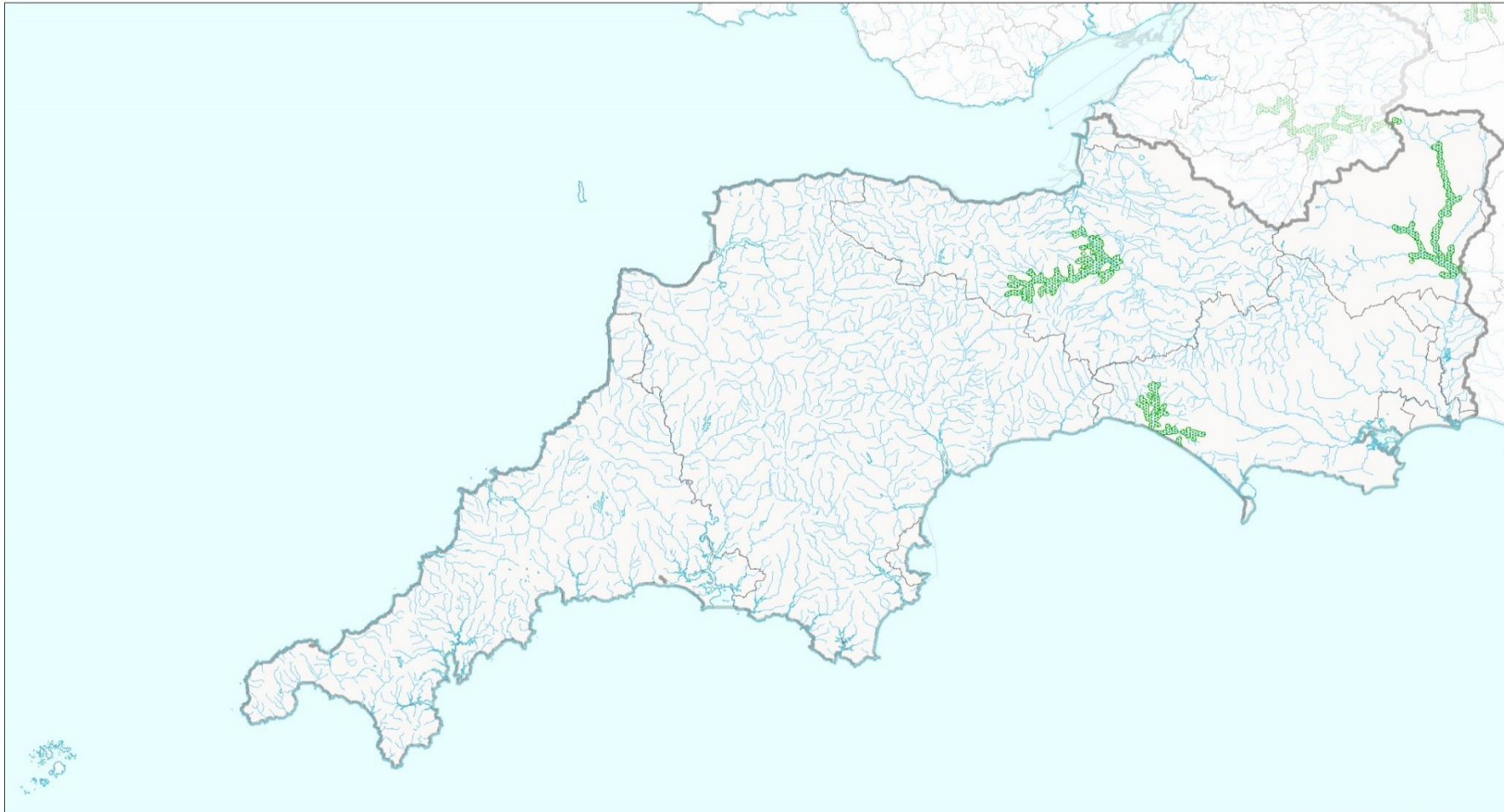
Water Vole Regional Key Areas (>35 sq. km): South West RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,268,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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5.2 SOUTH EAST RIVER BASIN DISTRICT

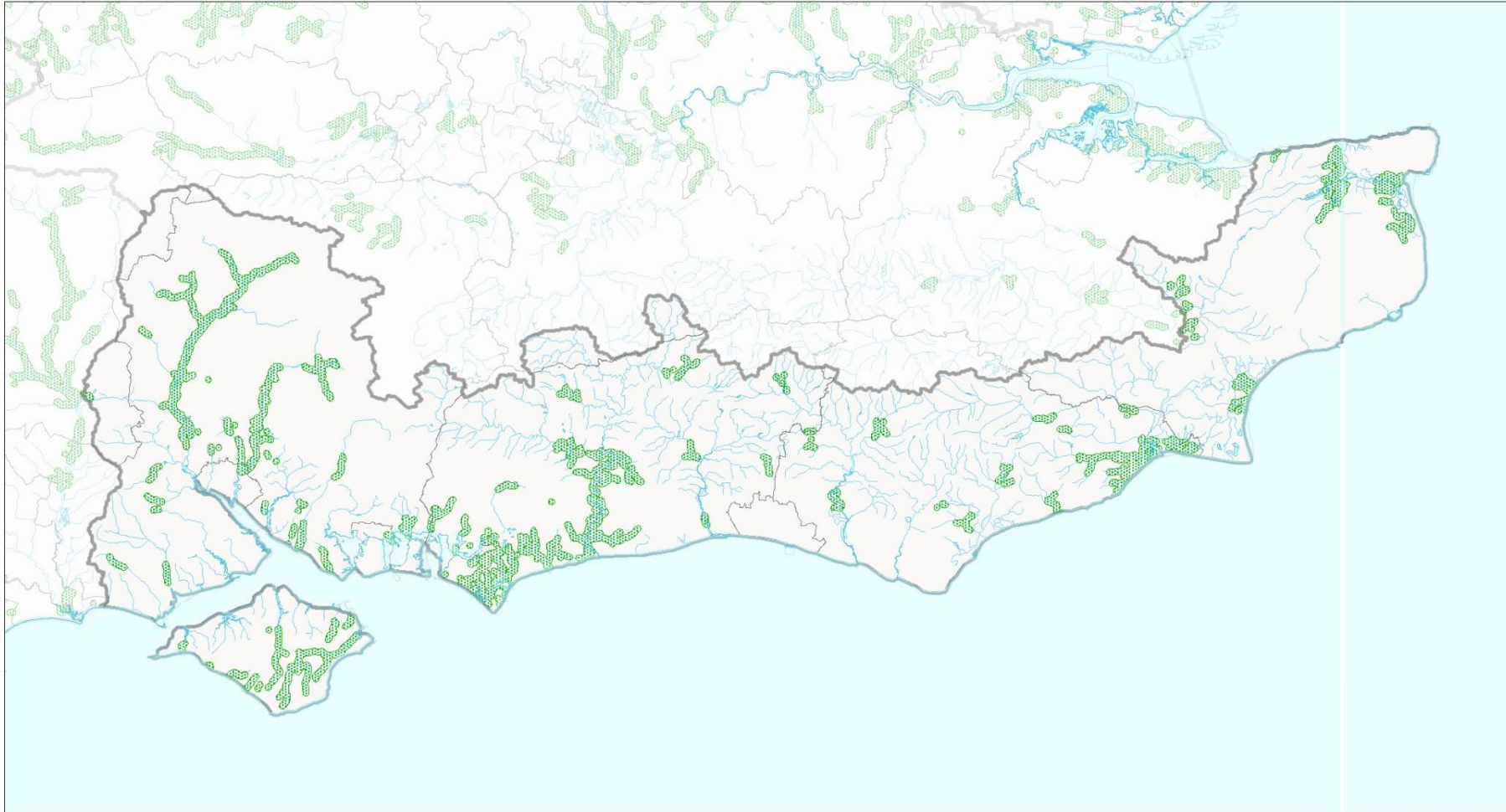
Water Vole Alert Map: South East RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:888,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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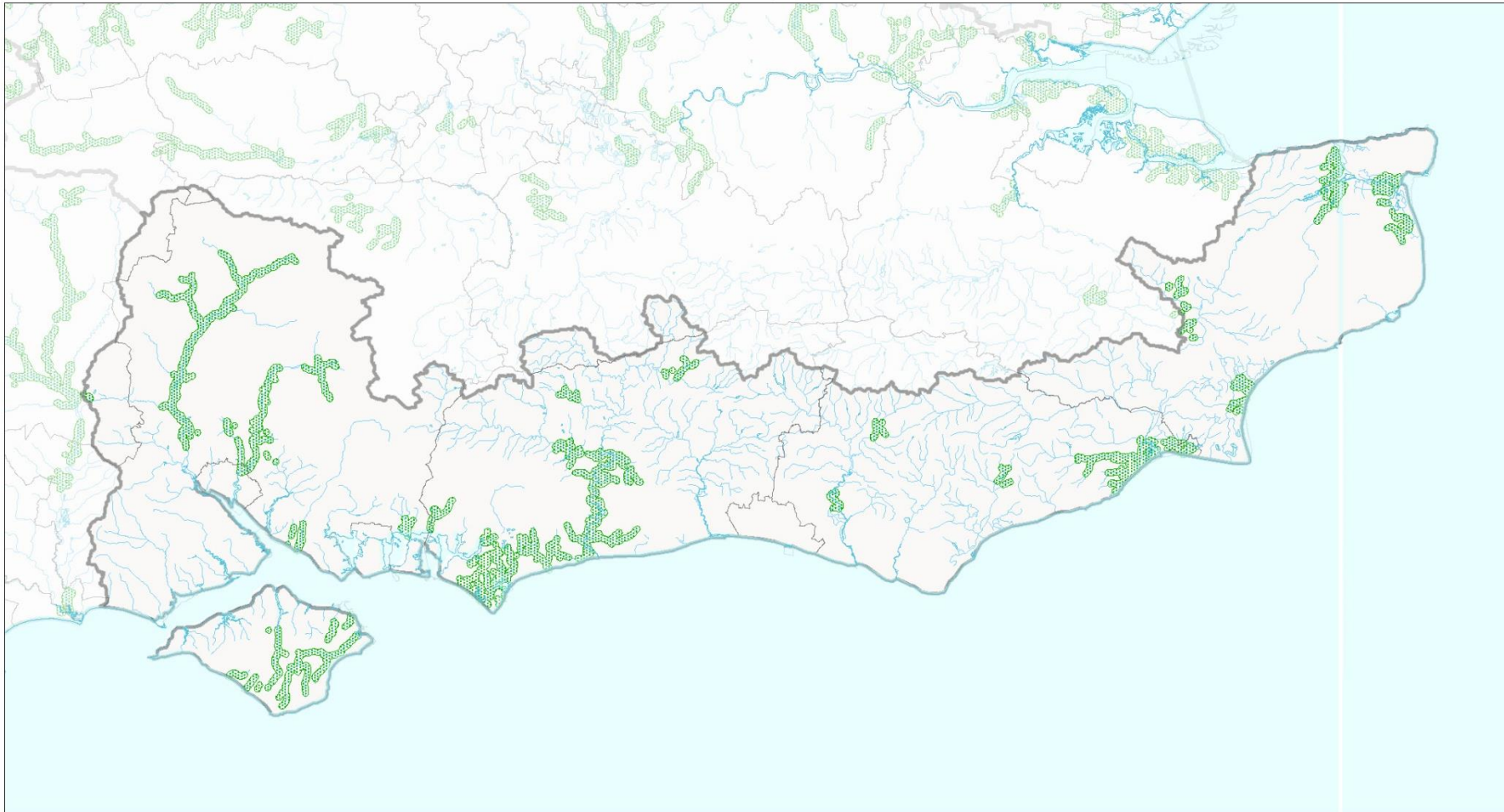
Water Vole Local Key Areas (>6 sq. km): South East RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:888,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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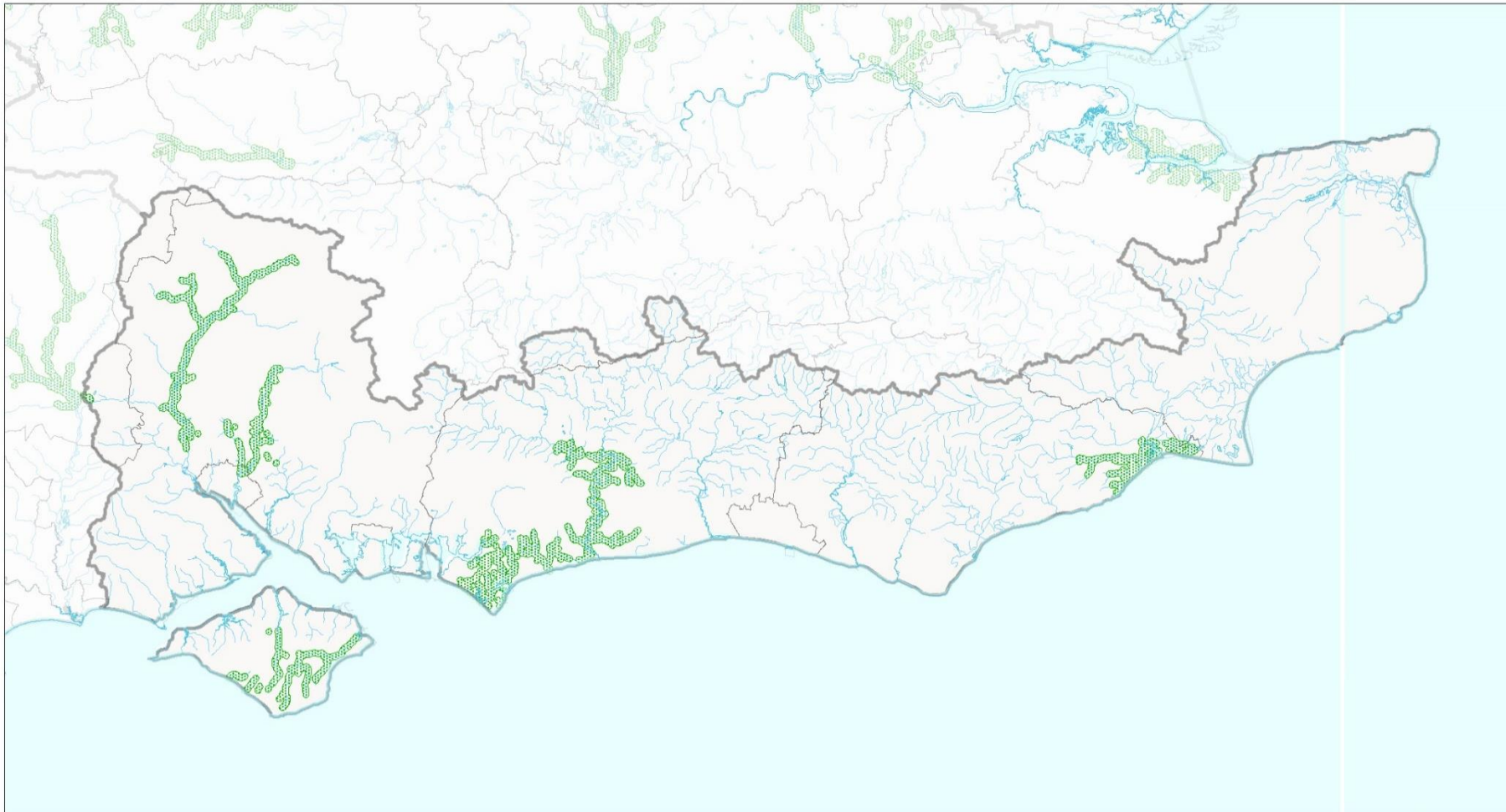
Water Vole Regional Key Areas (>35 sq. km): South East RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:888,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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5.3 WALES

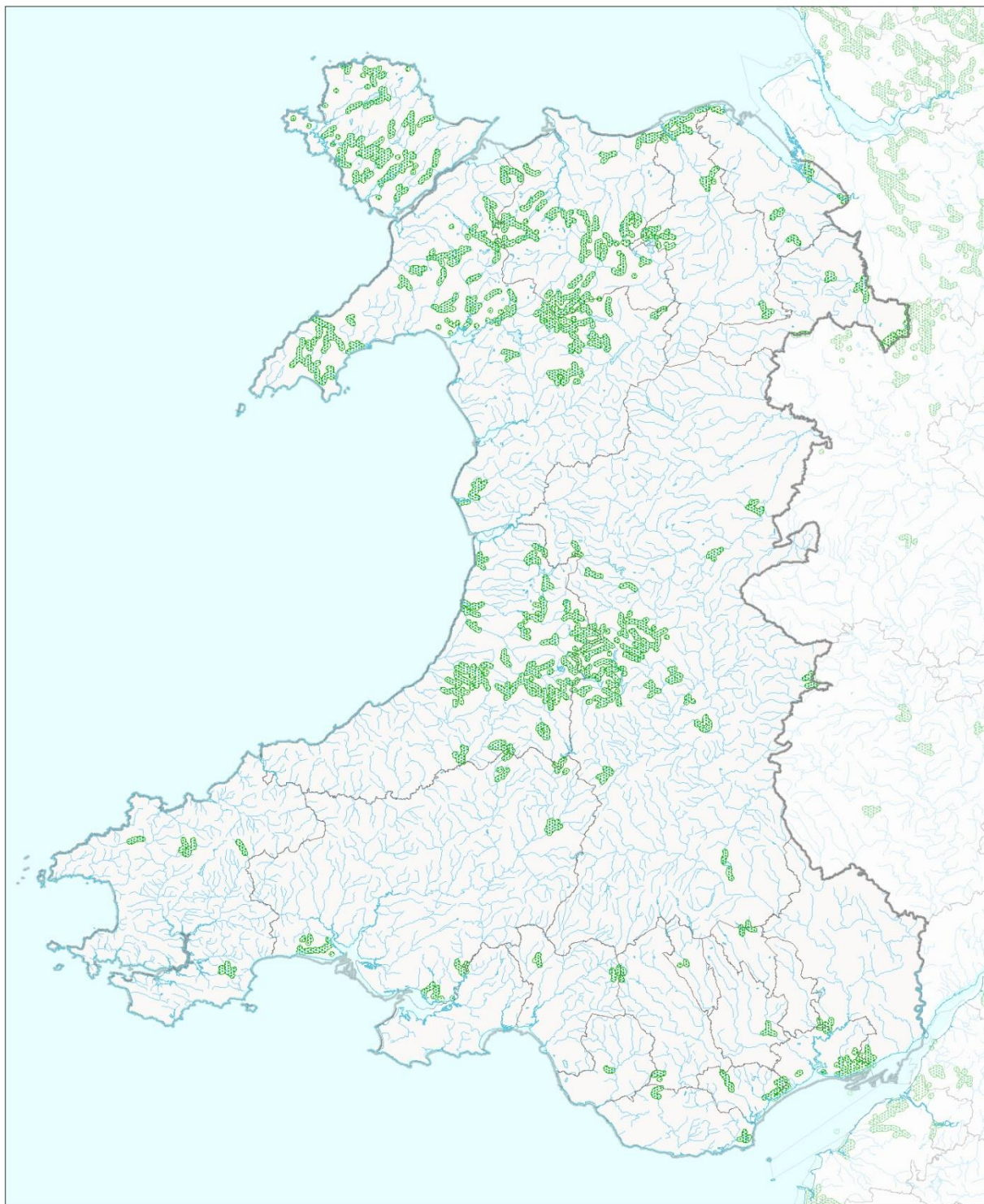
Water Vole Alert Map: Wales

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,100,000 (A4)



- Water Vole Alert Area
- River Basin District
- County/Unitary Boundary



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Water Vole Local Key Areas (>6sq. km): Wales

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,100,000 (A4)



- Water Vole Alert Area
- River Basin District
- County/Unitary Boundary



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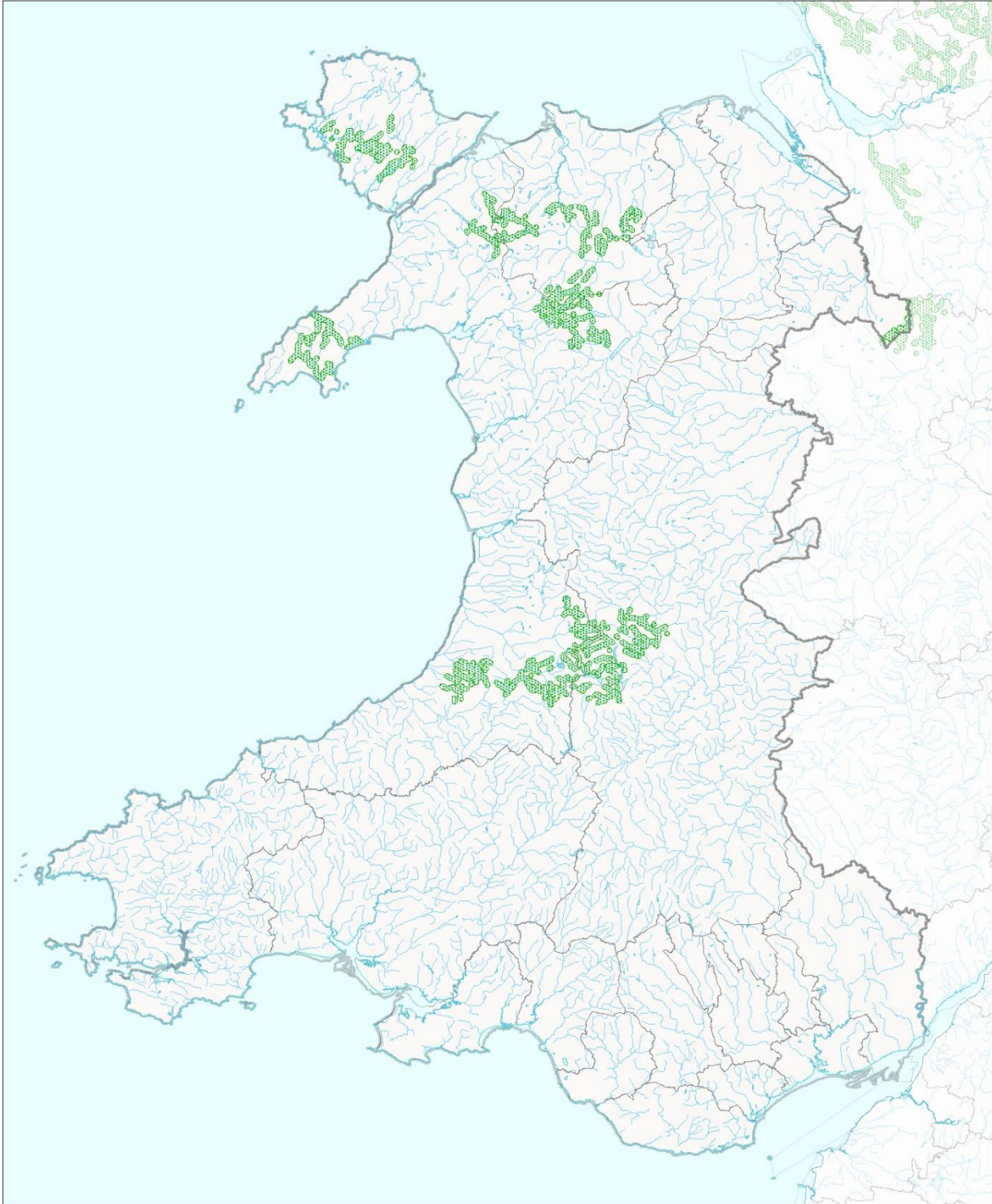
Water Vole Regional Key Areas (>35sq. km): Wales

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,100,000 (A4)



- Water Vole Alert Area
- River Basin District
- County/Unitary Boundary



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5.4 SEVERN RIVER BASIN DISTRICT

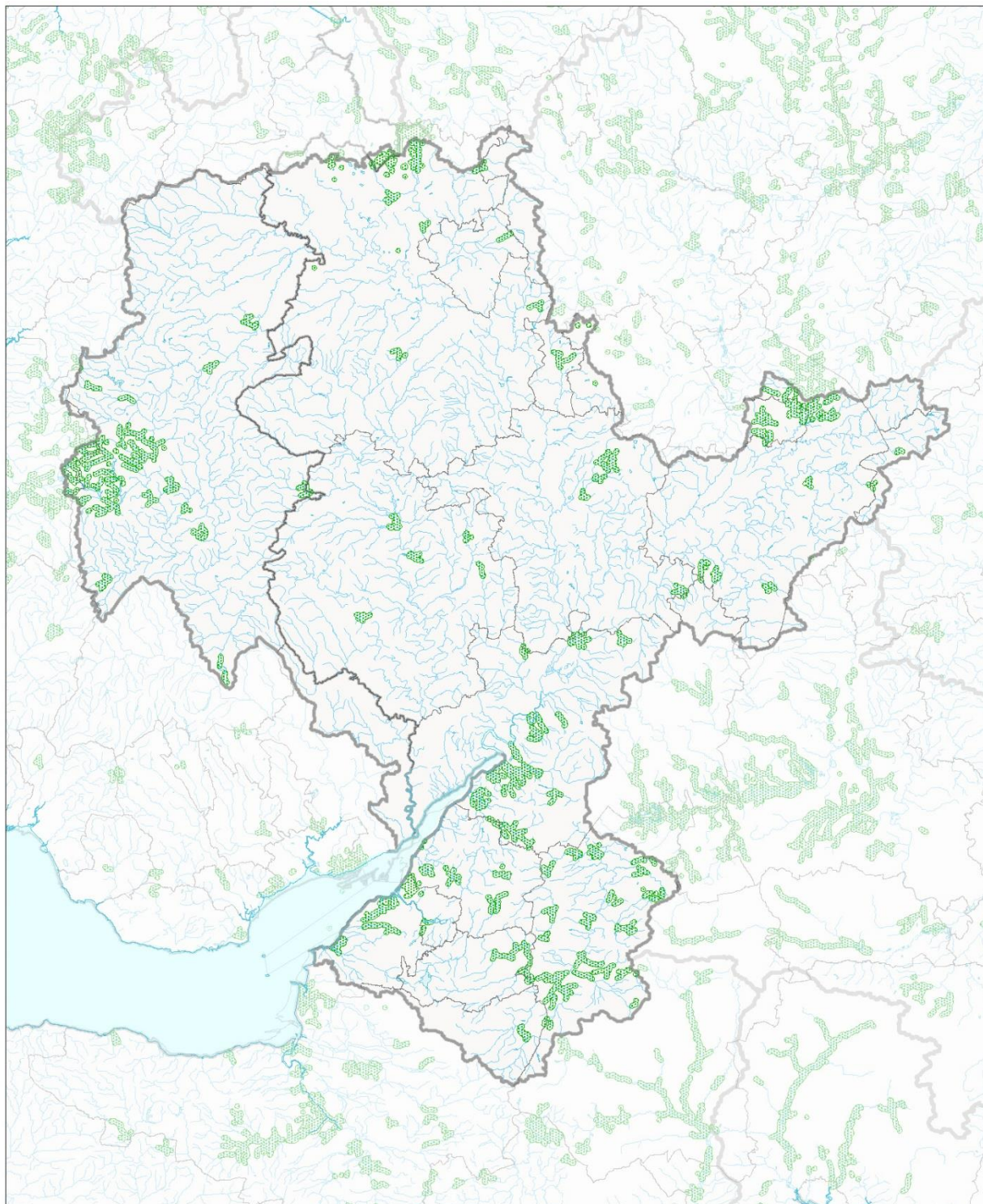
Water Vole Alert Map: Severn RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,130,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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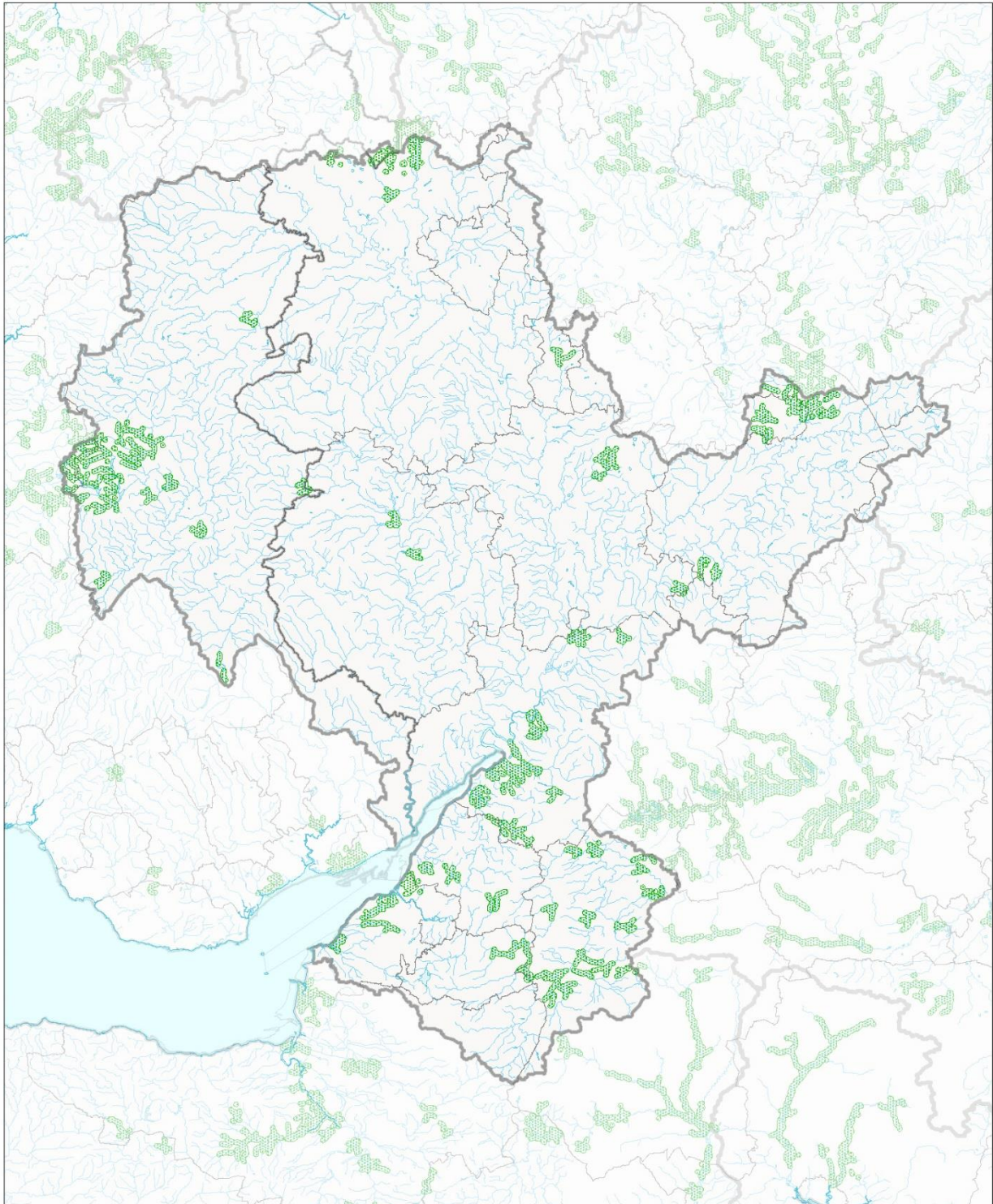
Water Vole Local Key Areas (>6sq. km): Severn RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,130,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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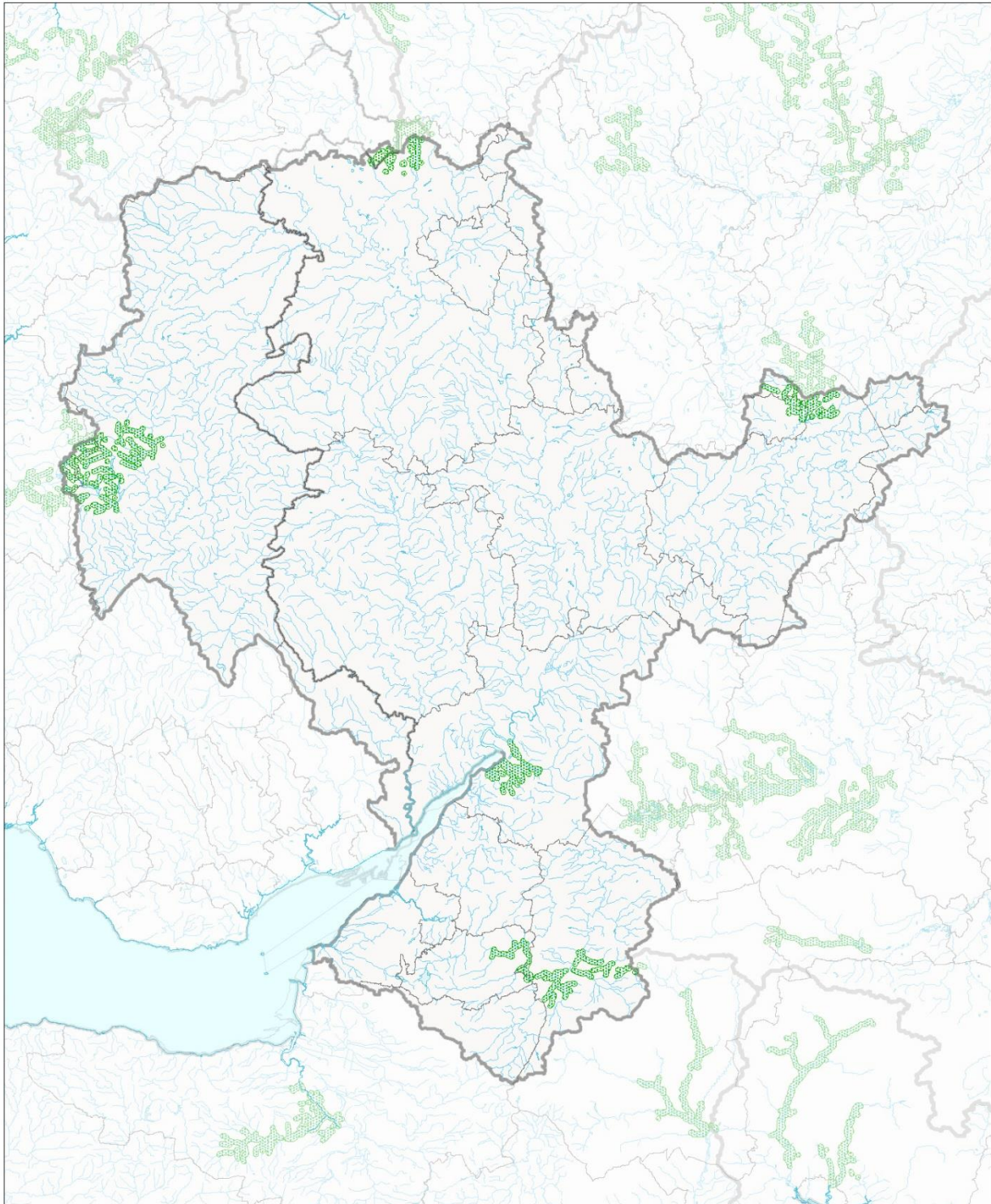
Water Vole Regional Key Areas (>35sq. km): Severn RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,130,000 (A4)



- Water Vole Alert Area
- River Basin District
- County/Unitary Boundary



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5.5 THAMES RIVER BASIN DISTRICT

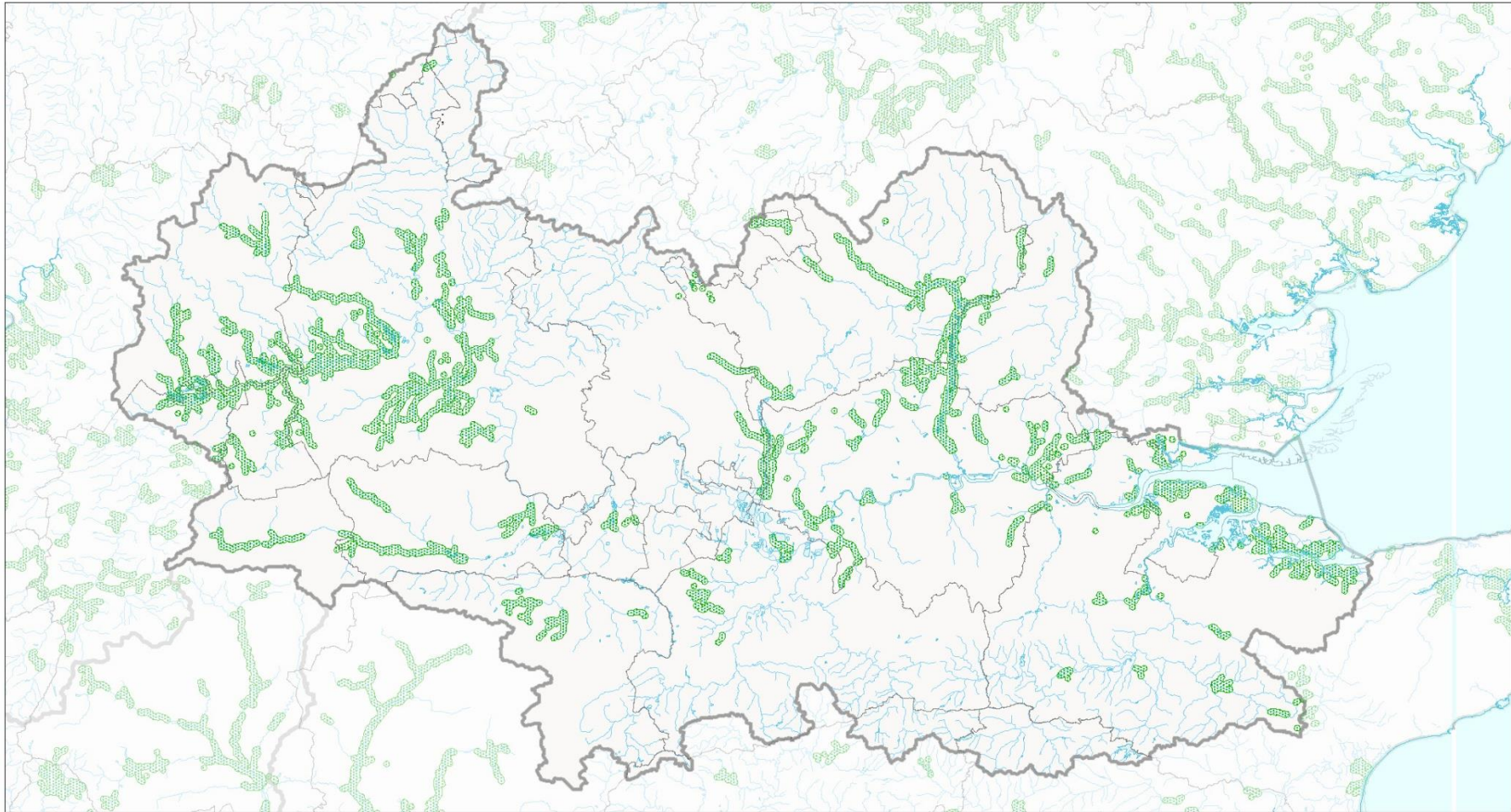
Water Vole Alert Map: Thames RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:950,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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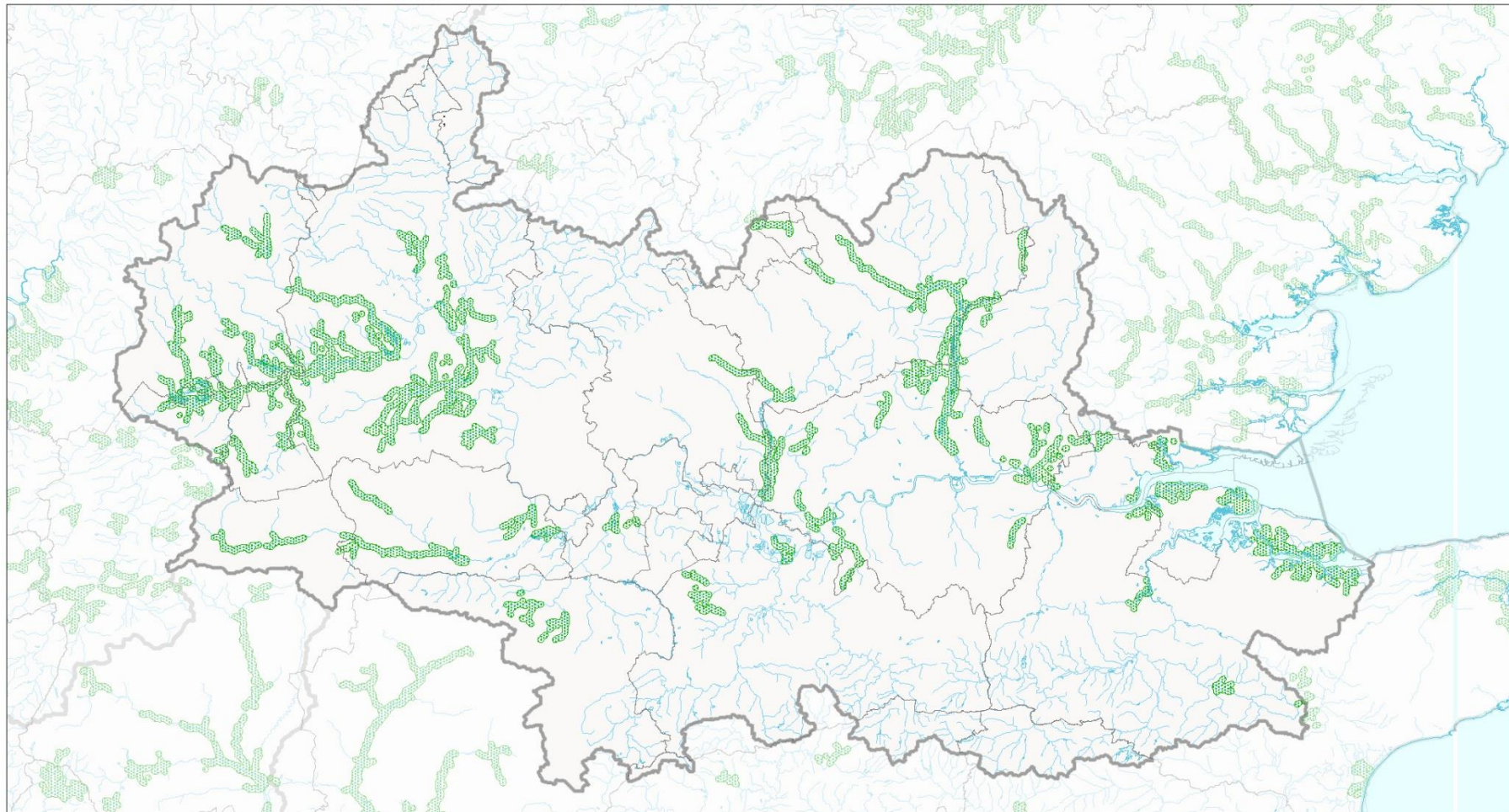
Water Vole Local Key Areas (>6sq. km): Thames RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:950,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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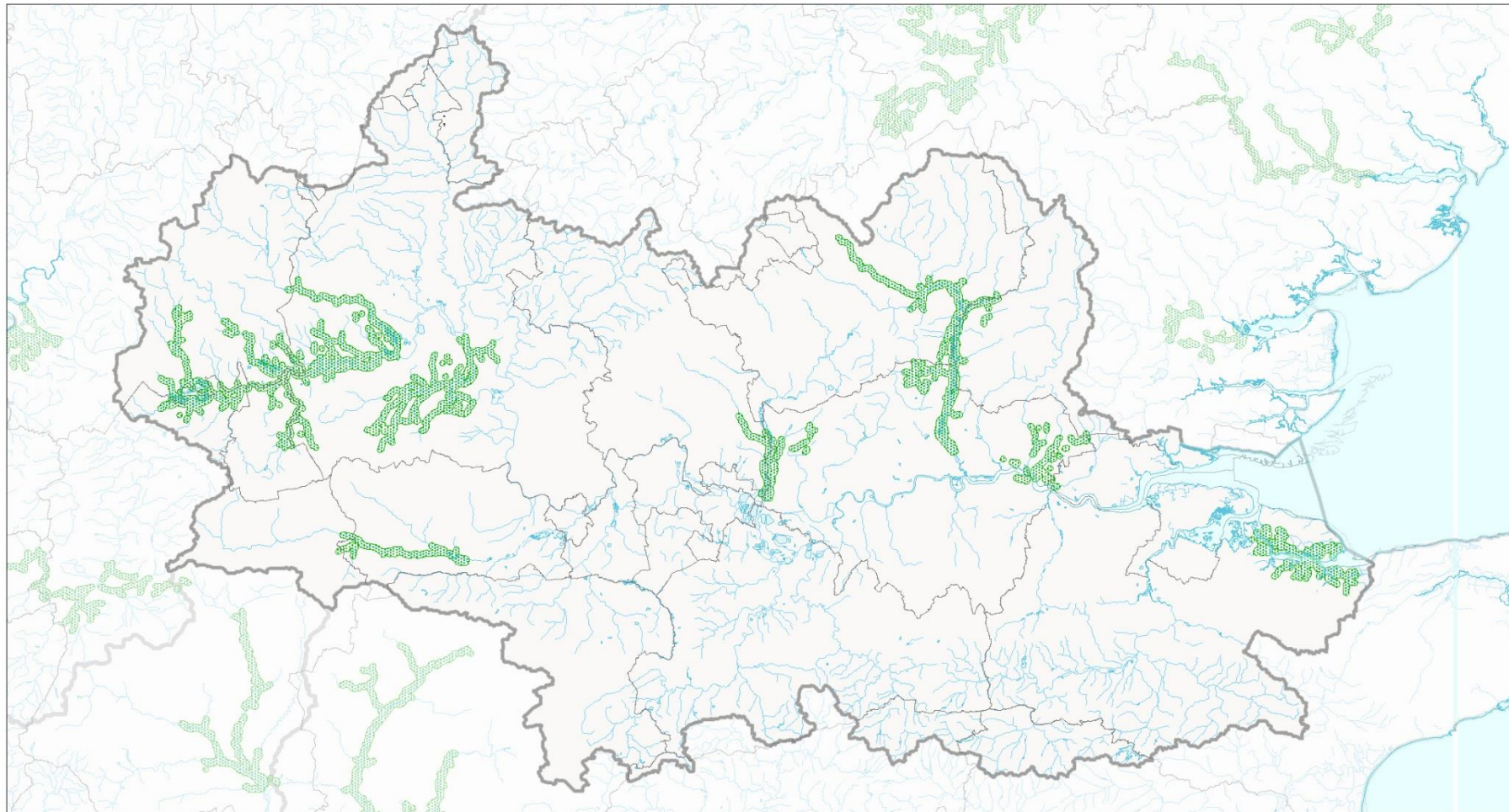
Water Vole Regional Key Areas (>35sq. km): Thames RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:950,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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5.6 ANGLIAN RIVER BASIN DISTRICT

Water Vole Alert Map: Anglian RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,195,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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Water Vole Local Key Areas (>6sq. km): Anglian RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,195,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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Water Vole Regional Key Areas (>35sq. km): Anglian RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,195,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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5.7 DEE RIVER BASIN DISTRICT

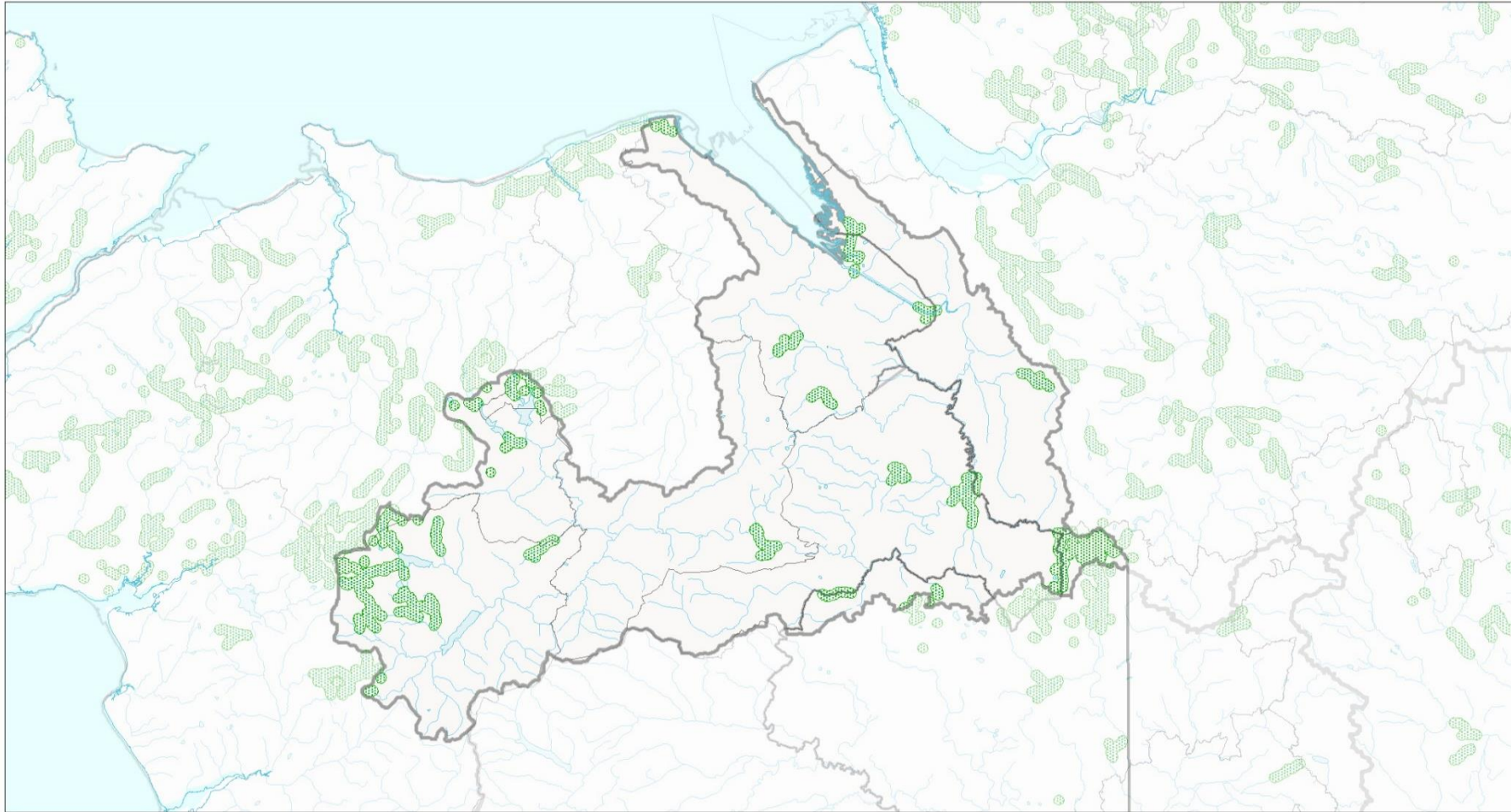
Water Vole Alert Map: Dee RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:550,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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Water Vole Local Key Areas (>6sq. km): Dee RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:550,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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Water Vole Regional Key Areas (>35sq. km): Dee RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:550,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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5.8 NORTH WEST RIVER BASIN DISTRICT

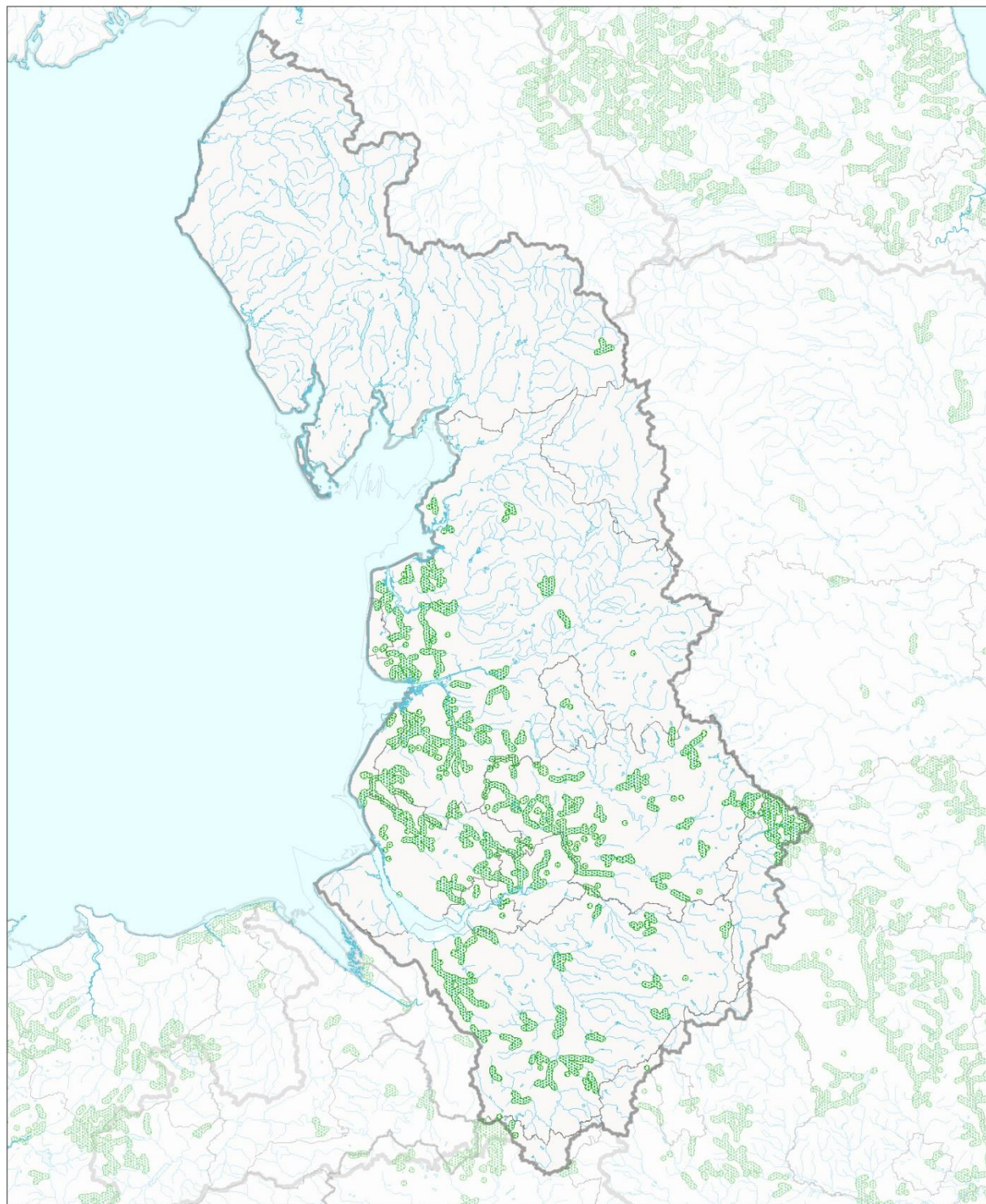
Water Vole Alert Map: North West RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,100,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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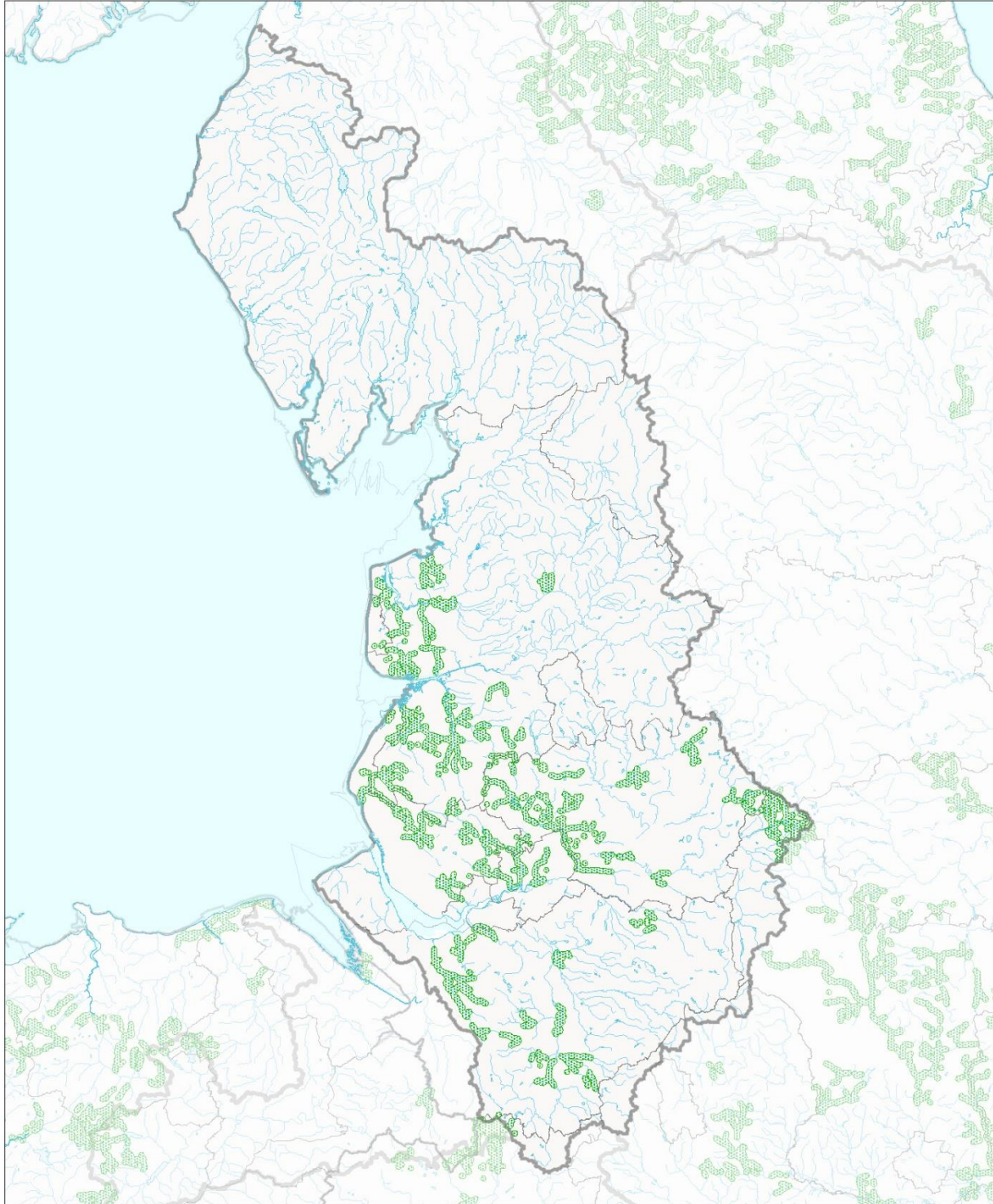
Water Vole Local Key Areas (>6sq. km): North West RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,100,000 (A4)



Water Vole Alert Area
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 County/Unitary Boundary






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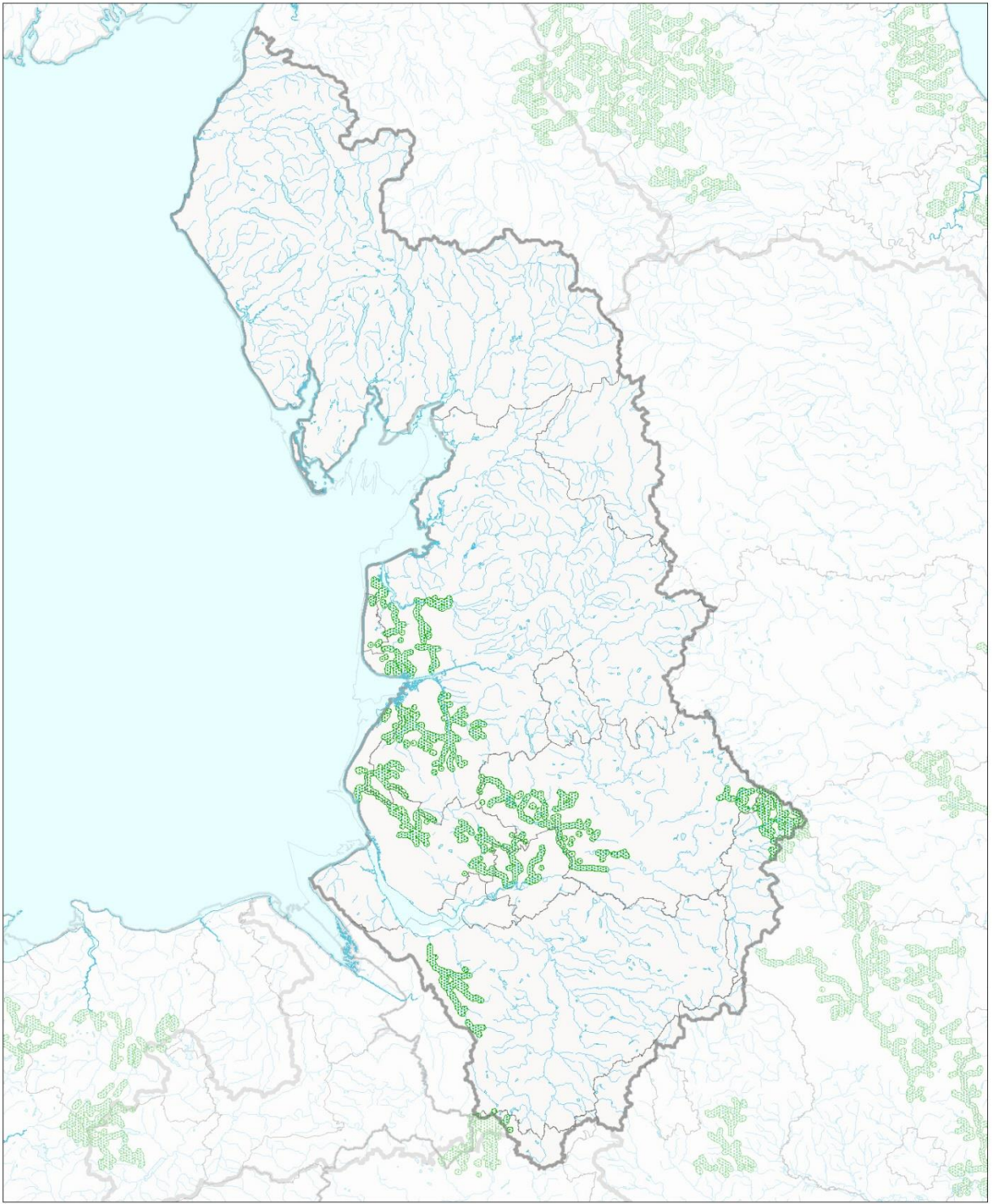
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Water Vole Regional Key Areas (>35sq. km): North West RBD
 Water Vole Presence Jan 2006 - Dec 2015
 Scale 1:1,100,000 (A4)






 Water Vole Alert Area
  River Basin District
  County/Unitary Boundary



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5.9 HUMBER RIVER BASIN DISTRICT

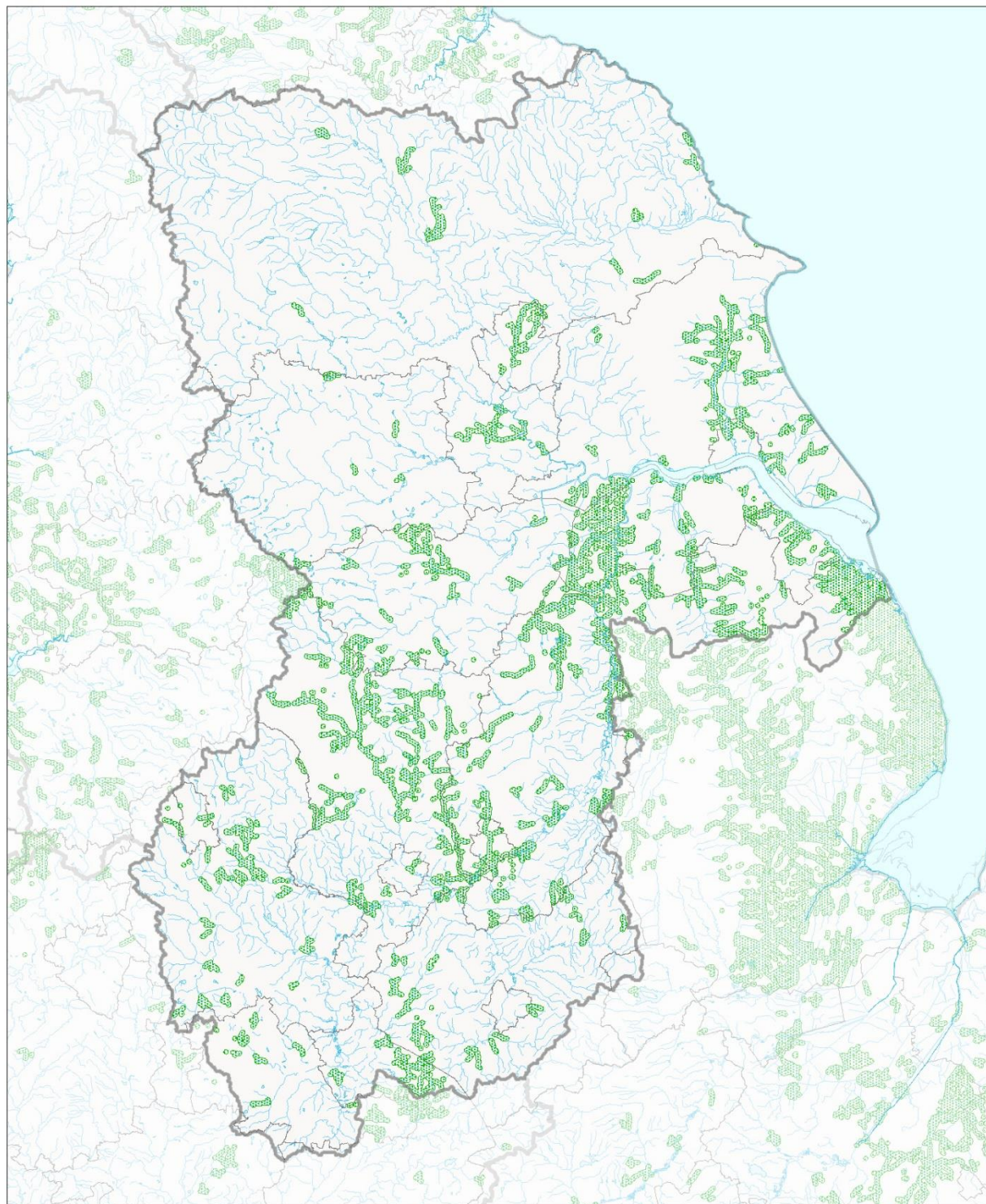
Water Vole Alert Map: Humber RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,180,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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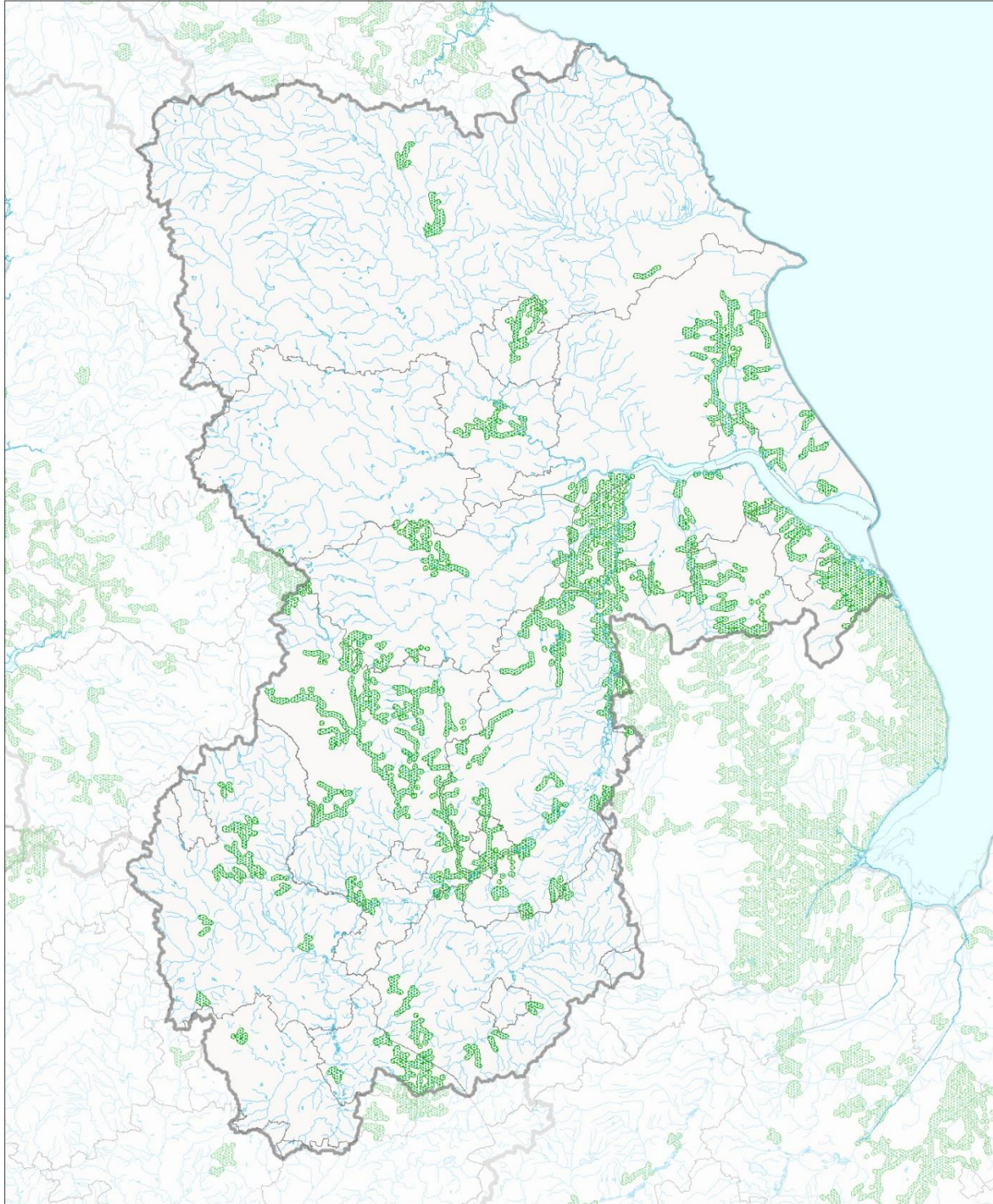
Water Vole Local Key Areas (>6sq. km): Humber RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,180,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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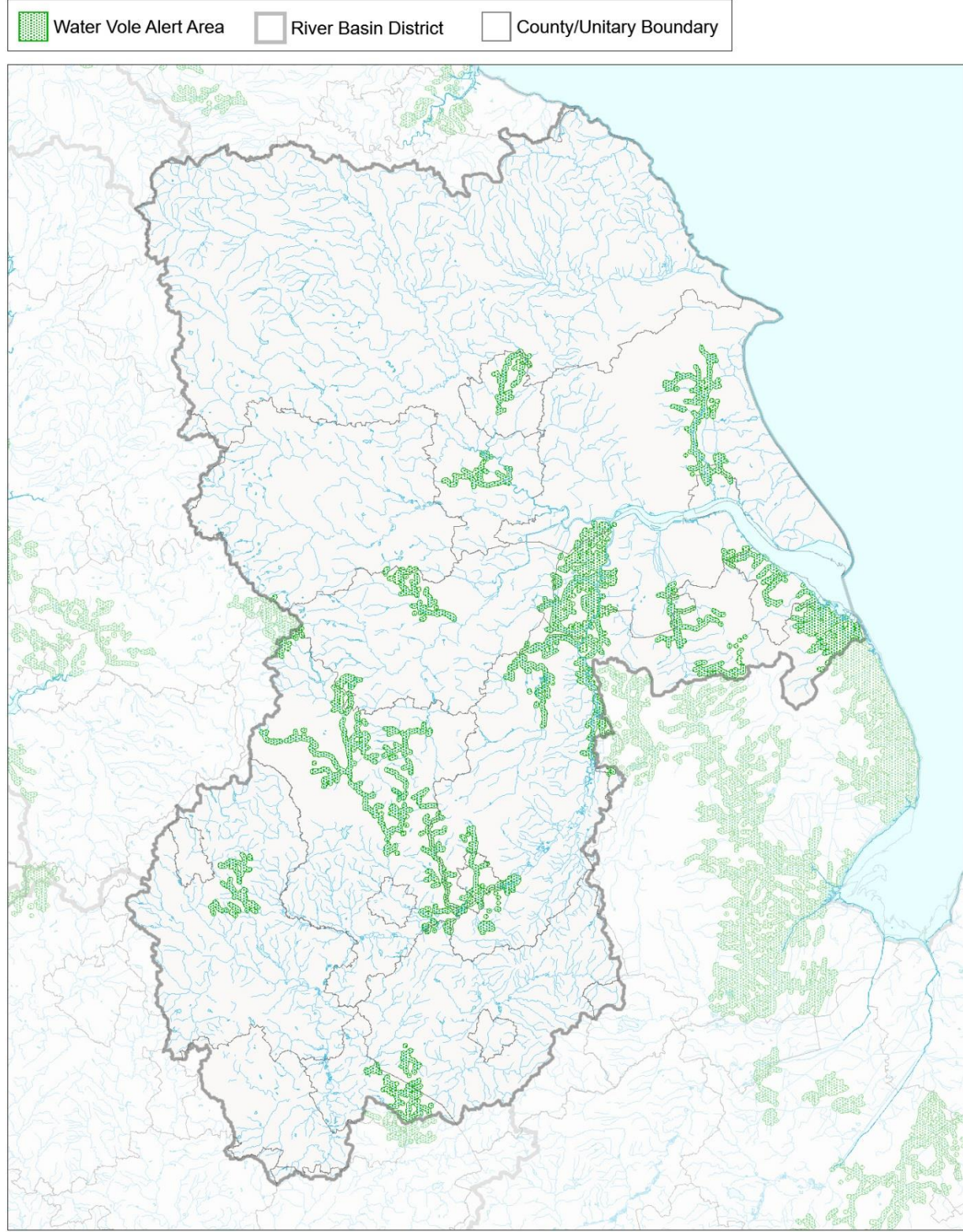
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Water Vole Regional Key Areas (>35sq. km): Humber RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,180,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary

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5.10 SOLWAY TWEED RIVER BASIN DISTRICT

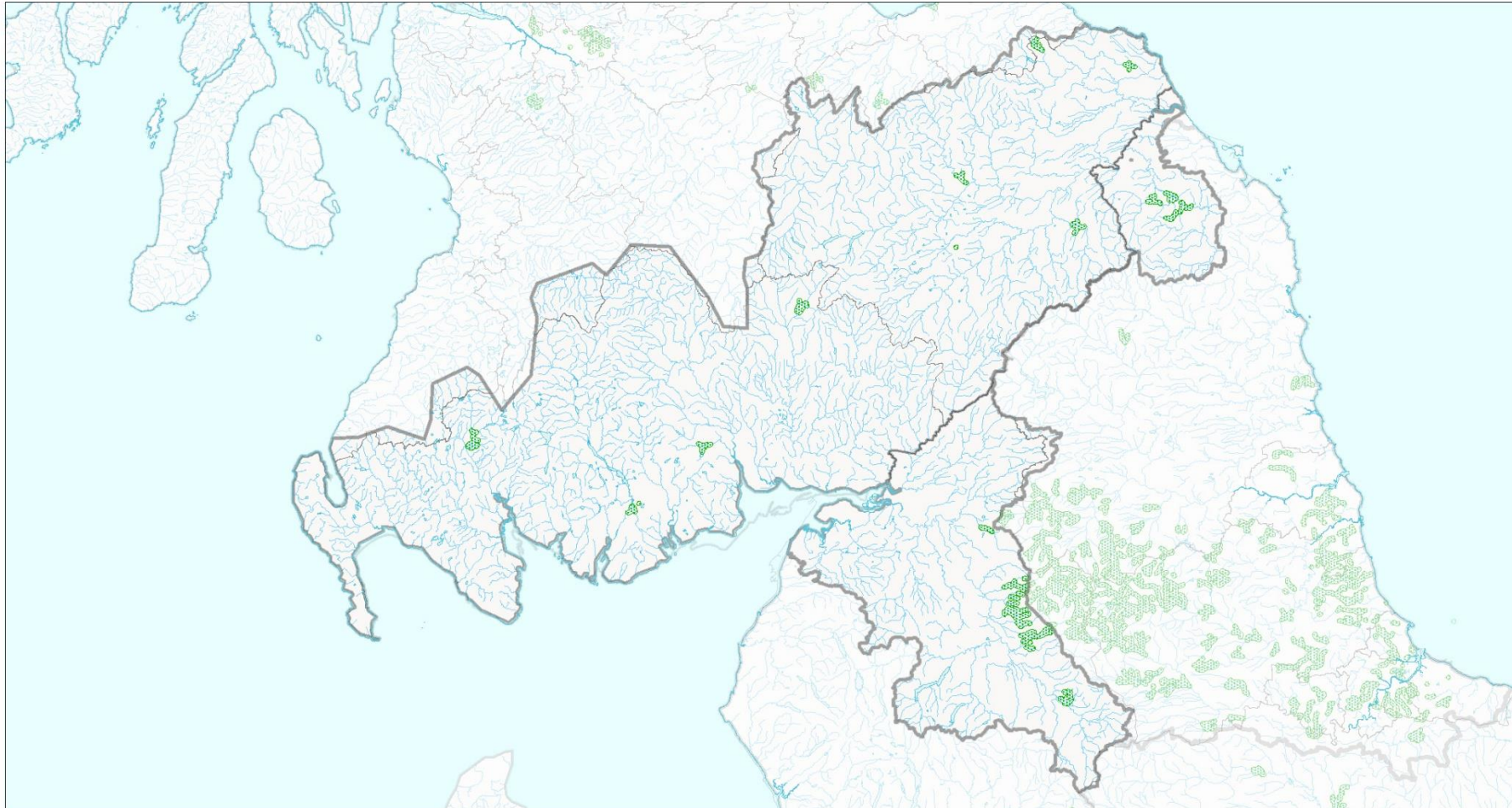
Water Vole Alert Map: Solway Tweed RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,250,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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Water Vole Local Key Areas (>6sq. km): Solway Tweed RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,250,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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Water Vole Regional Key Areas (>35sq. km): Solway Tweed RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:1,250,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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5.11 NORTHUMBRIA RIVER BASIN DISTRICT

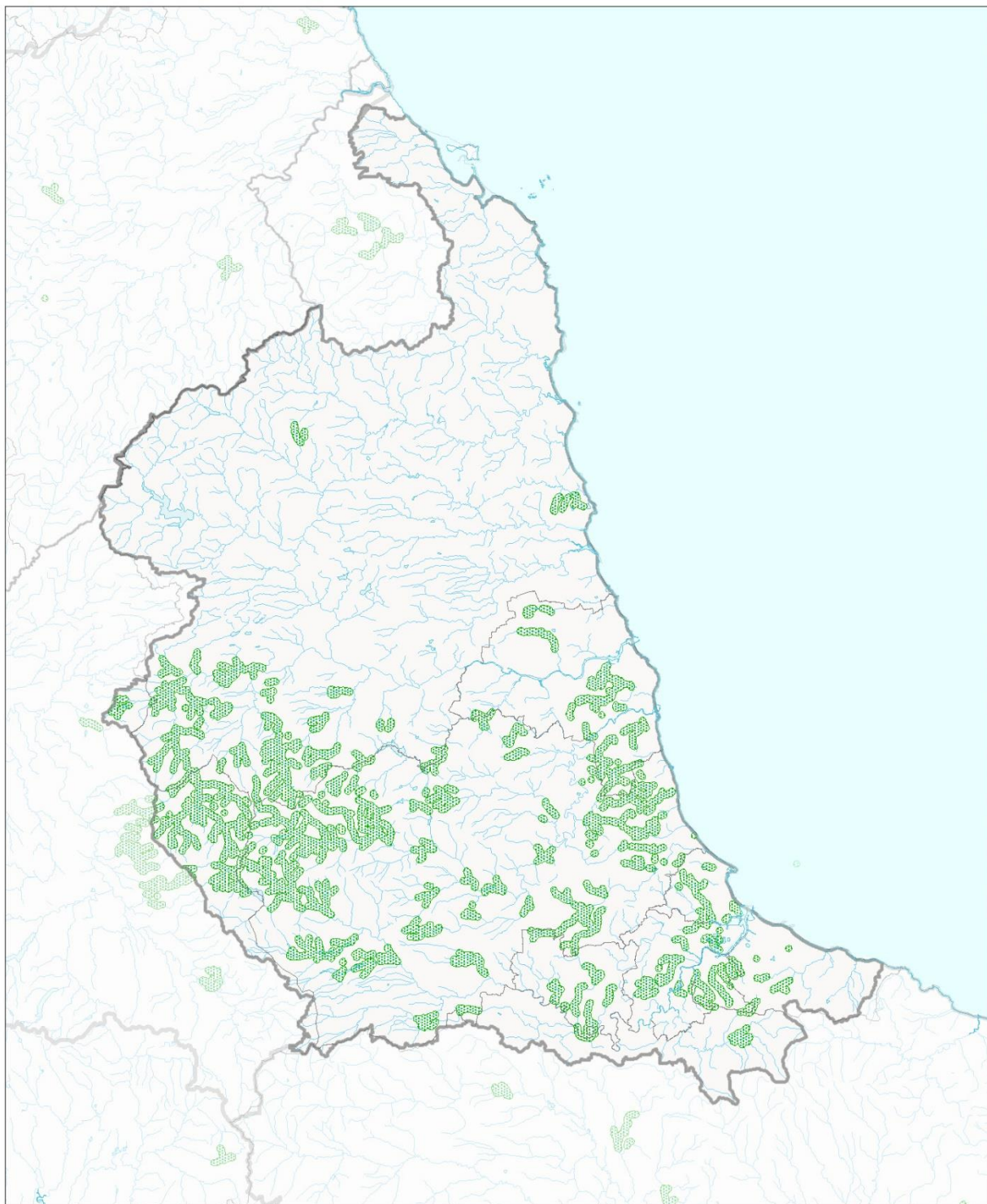
Water Vole Alert Map: Northumbria RBD

Water Vole Presence Jan 2006 - Dec 2015

Scale 1:800,000 (A4)



 Water Vole Alert Area  River Basin District  County/Unitary Boundary



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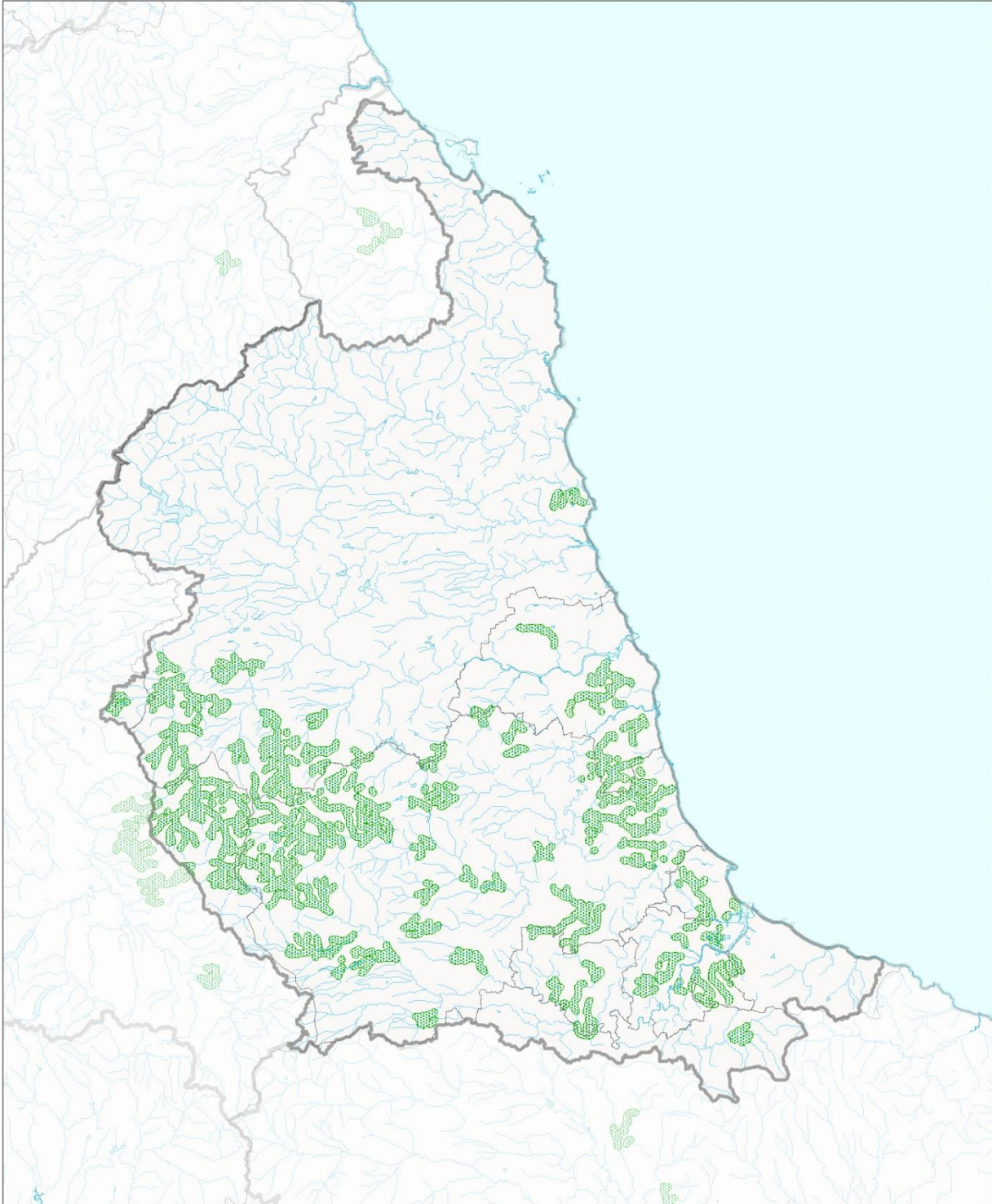
Hampshire and Isle of Wight Wildlife Trust
Beechcroft House, Vicarage Lane
Curridge SO32 2DP
web: www.hwt.org.uk



Water Vole Local Key Areas (>6sq. km):
Northumbria RBD
 Water Vole Presence Jan 2006 - Dec 2015
 Scale 1:800,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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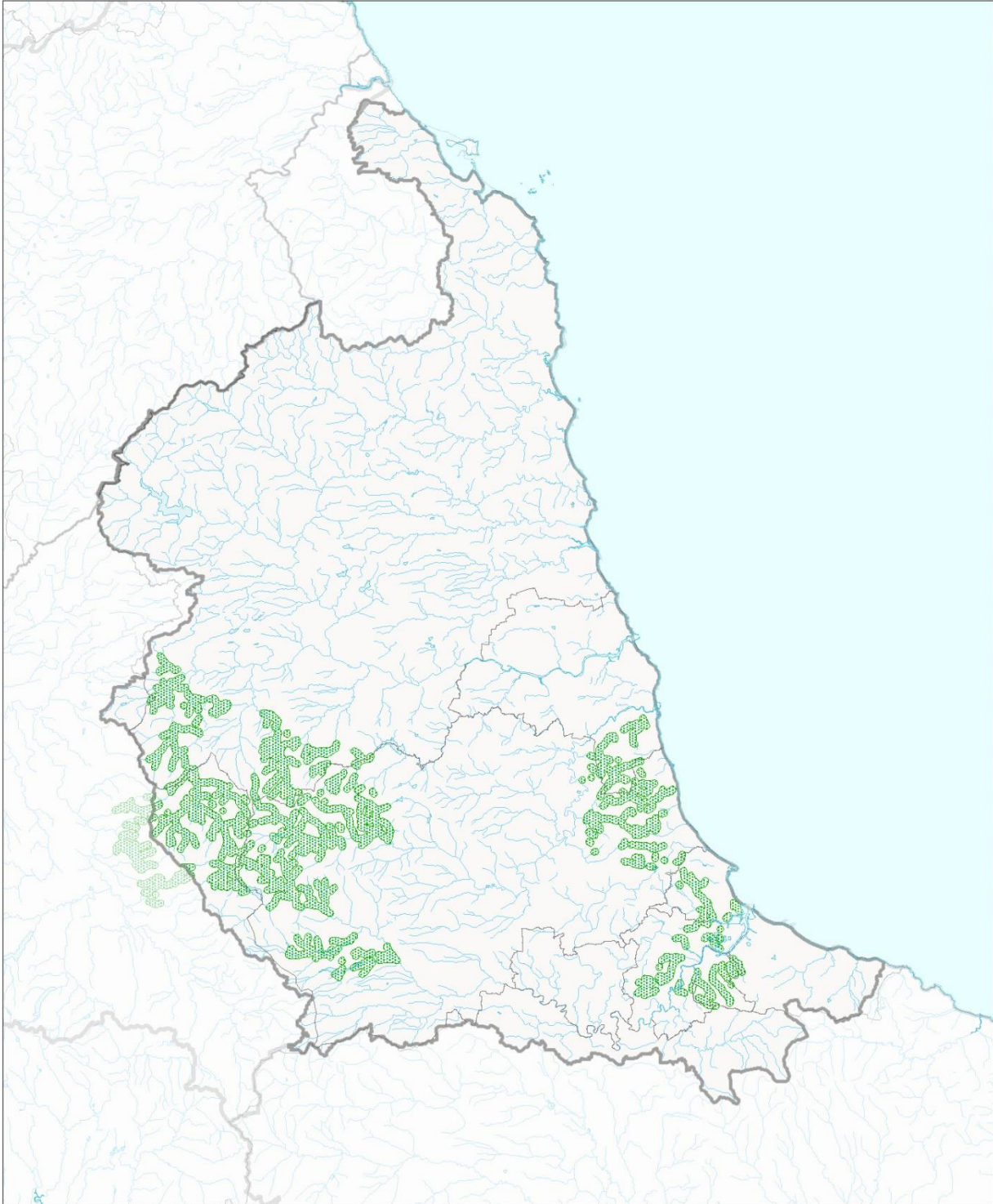
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 web: www.hwt.org.uk



Water Vole Regional Key Areas (>35sq. km):
Northumbria RBD
 Water Vole Presence Jan 2006 - Dec 2015
 Scale 1:800,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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5.12 SCOTLAND

Water Vole Alert Map: Scotland

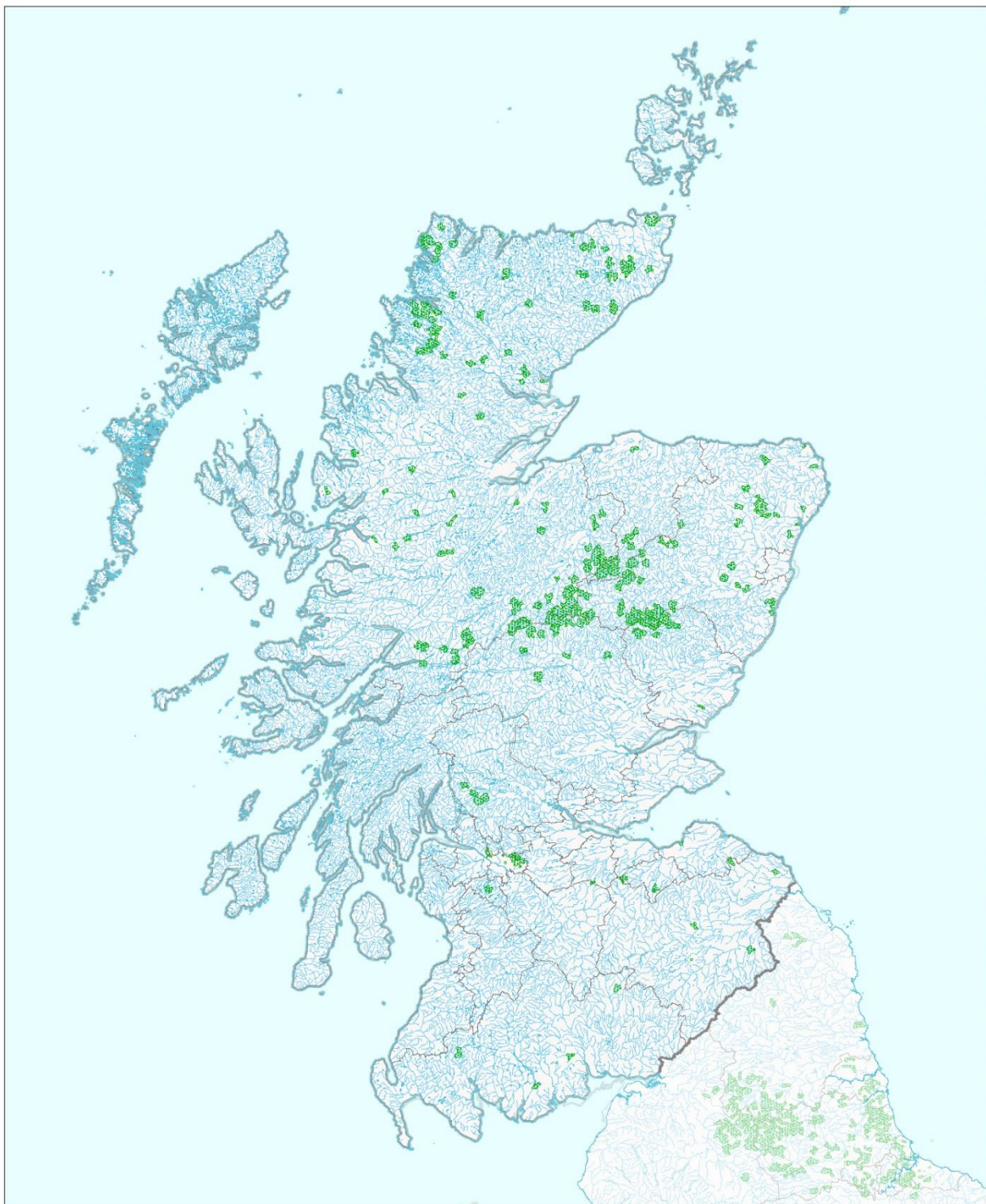
Water Vole Presence Jan 2006 - Dec 2015

(Note: Limited data availability 2011-2015)

Scale 1:2,500,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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Water Vole Local Key Areas (>35sq. km): Scotland

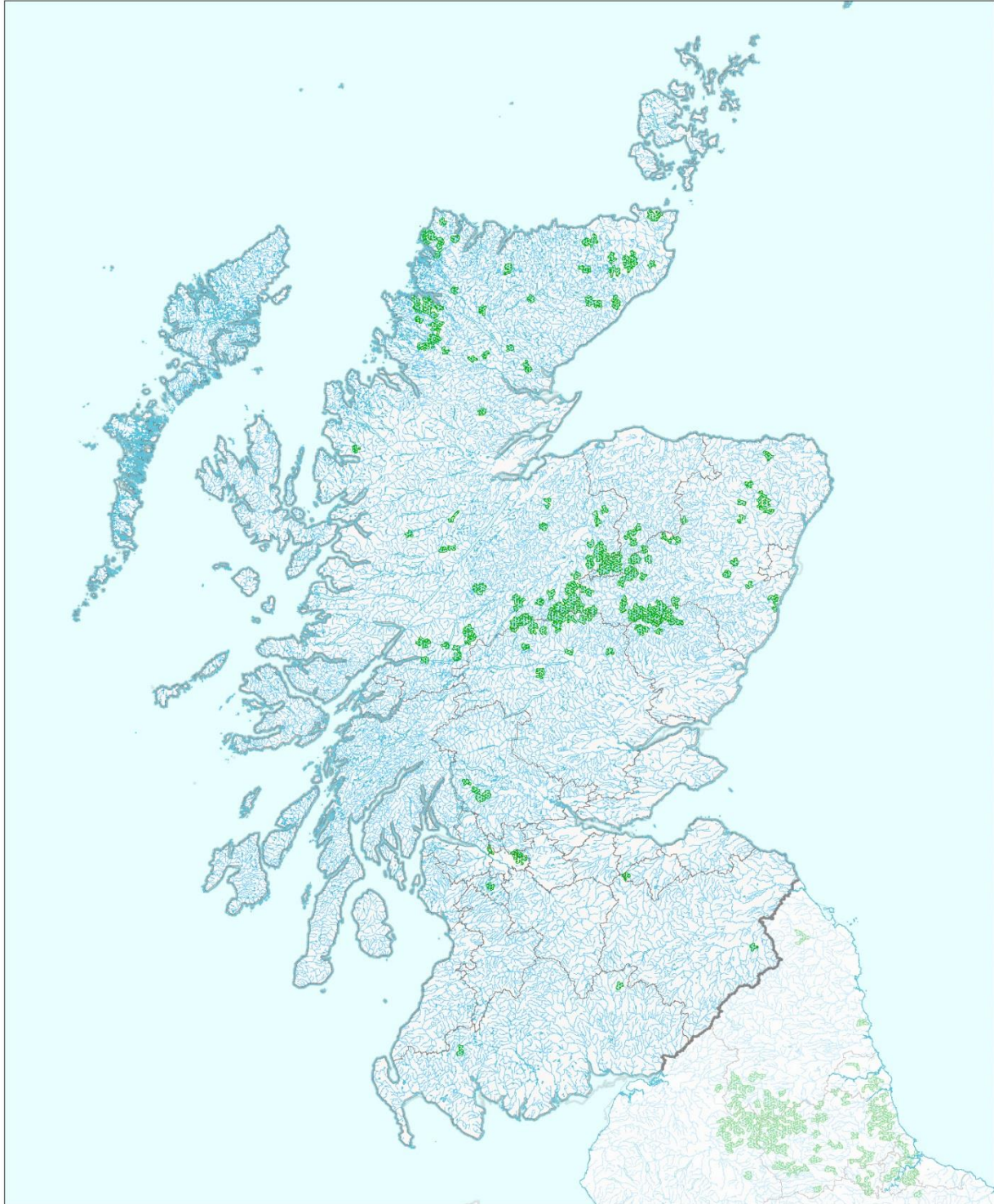
Water Vole Presence Jan 2006 - Dec 2015

(Note: Limited data availability 2011-2015)

Scale 1:2,500,000 (A4)



- Water Vole Alert Area
- River Basin District
- County/Unitary Boundary



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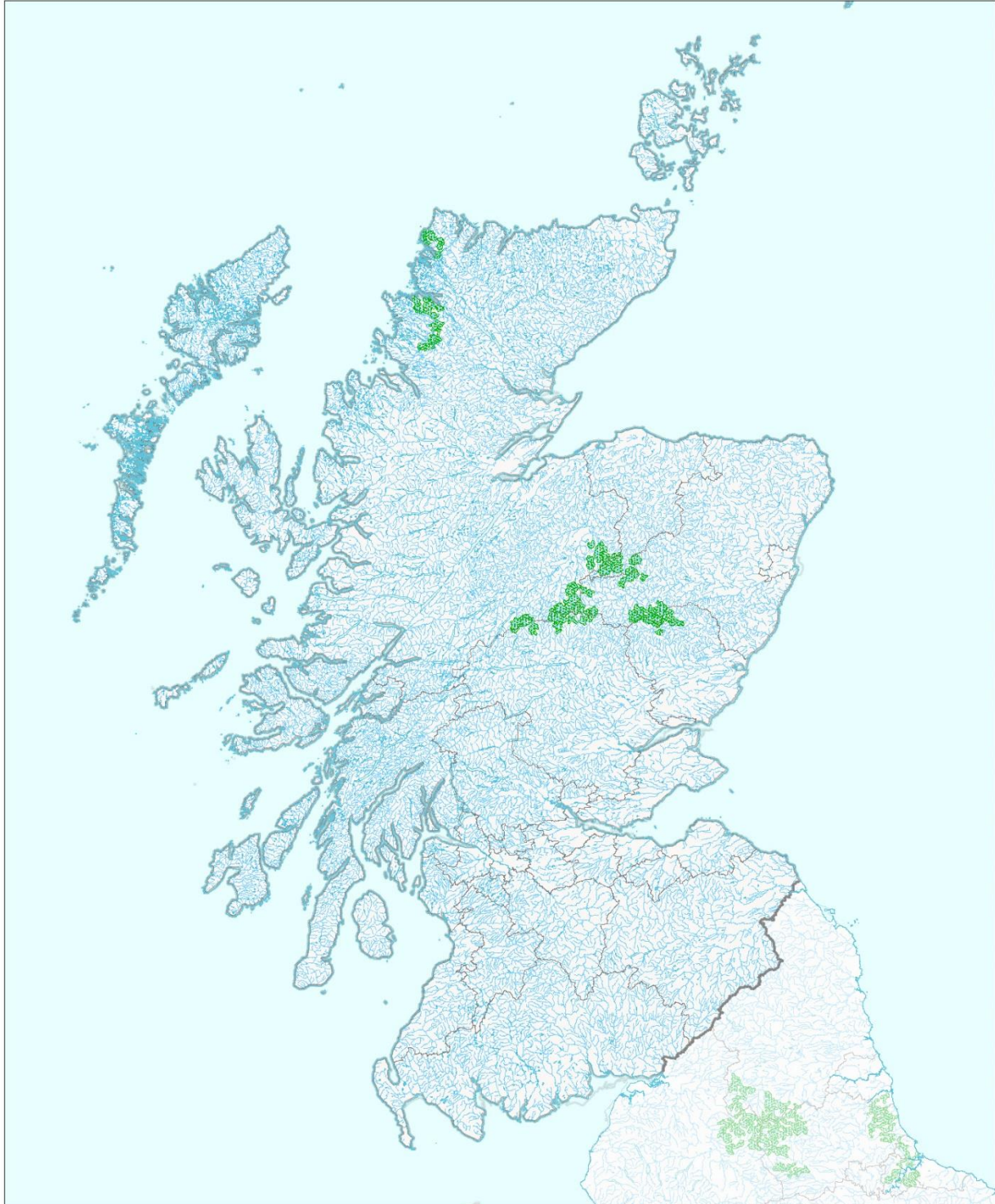
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 web: www.hwt.org.uk



Water Vole Regional Key Areas (>35sq. km): Scotland
 Water Vole Presence Jan 2006 - Dec 2015
 (Note: Limited data availability 2011-2015)
 Scale 1:2,500,000 (A4)



Water Vole Alert Area
 River Basin District
 County/Unitary Boundary



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5.13 UNITED KINGDOM WATER VOLE REGIONAL KEY AREAS MAP

United Kingdom: Water Vole Regional Alert Map with River Basin Districts



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