

# Atlas Maps



# **Cumbria Mammal Atlas**

Cumbria Biodiversity Data Centre and Cumbria Mammal Group

November 2017

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## **Acknowledgements**

We are indebted to the many naturalists and members of the public both past and present who have kindly allowed us to use their records; without these data the ability to develop an understanding of the distribution of mammals in Cumbria would not be possible. We are also indebted to our expert County Mammal Recorders who give up a lot of their time to check through all the hundreds or thousands of records submitted each year; checking the veracity of these data so the information that we hold is of the highest quality. Lastly, we want to thank those volunteers who have over the years given up many hundreds of hours of their time to enter records into our database; a task requiring attention to detail, skill, dedication and fortitude!

# Contents

Introduction . . . . .	1
West European Hedgehog . . . . .	3
European Mole . . . . .	4
Eurasian Common Shrew . . . . .	5
Eurasian Pygmy Shrew . . . . .	6
Eurasian Water Shrew . . . . .	7
Whiskered Bat . . . . .	8
Brandt's Bat . . . . .	9
Natterer's Bat . . . . .	10
Daubenton's Bat . . . . .	11
Noctule Bat . . . . .	12
Pipistrelles . . . . .	13
Brown Long-eared Bat . . . . .	14
Western Barbastelle . . . . .	15
Leisler's Bat . . . . .	16
European Rabbit . . . . .	17
Brown Hare . . . . .	18
Mountain Hare . . . . .	19
Eurasian Red Squirrel . . . . .	20
Eastern Grey Squirrel . . . . .	21
Bank Vole . . . . .	22
Field Vole . . . . .	23
European Water Vole . . . . .	24
Harvest Mouse . . . . .	25
Wood Mouse . . . . .	26
House Mouse . . . . .	27
Brown Rat . . . . .	28
Hazel Dormouse . . . . .	29

Red Fox . . . . .	30
Pine Marten . . . . .	31
Polecat . . . . .	32
Polecat-Ferret and Feral-Ferret . . . . .	33
Stoat . . . . .	34
Weasel . . . . .	35
American Mink . . . . .	36
Eurasian Badger . . . . .	37
European Otter . . . . .	38
Common Seal . . . . .	39
Grey Seal . . . . .	40
Red Deer . . . . .	41
Sika Deer . . . . .	42
Fallow Deer . . . . .	43
Chinese Muntjac . . . . .	44
Roe Deer . . . . .	45
Appendix . . . . .	46

## Introduction

The *Cumbrian Mammal Atlas* aims to provide those with an interest in mammals a visual representation of the distribution of these 43 species or taxa in Cumbria. These data summarise the 85,500 mammal records (excluding whales and dolphins) that form part of the database of Cumbria Biodiversity Data Centre (CBDC) based at Tullie House Museum, Carlisle. These records however would not exist without the enthusiasm and hard work of many biological recorders over the years, decades and indeed centuries! The earliest records are from 1512 of red deer *Cervus elaphus* and fallow deer *Dama dama* and the most recent records are from 2017, providing a range of over 500 years.

It is hoped this atlas will help people identify areas where there is a lack of recent records, so some survey effort can be applied to them. We at CBDC are always looking for high quality records of mammals (and other groups) irrespective of whether the species is common or rare.

### Notes on the maps

These maps are working (draft) documents and will be updated when further records are obtained and when circumstances allow.

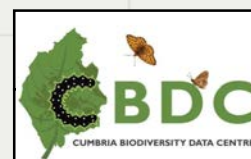
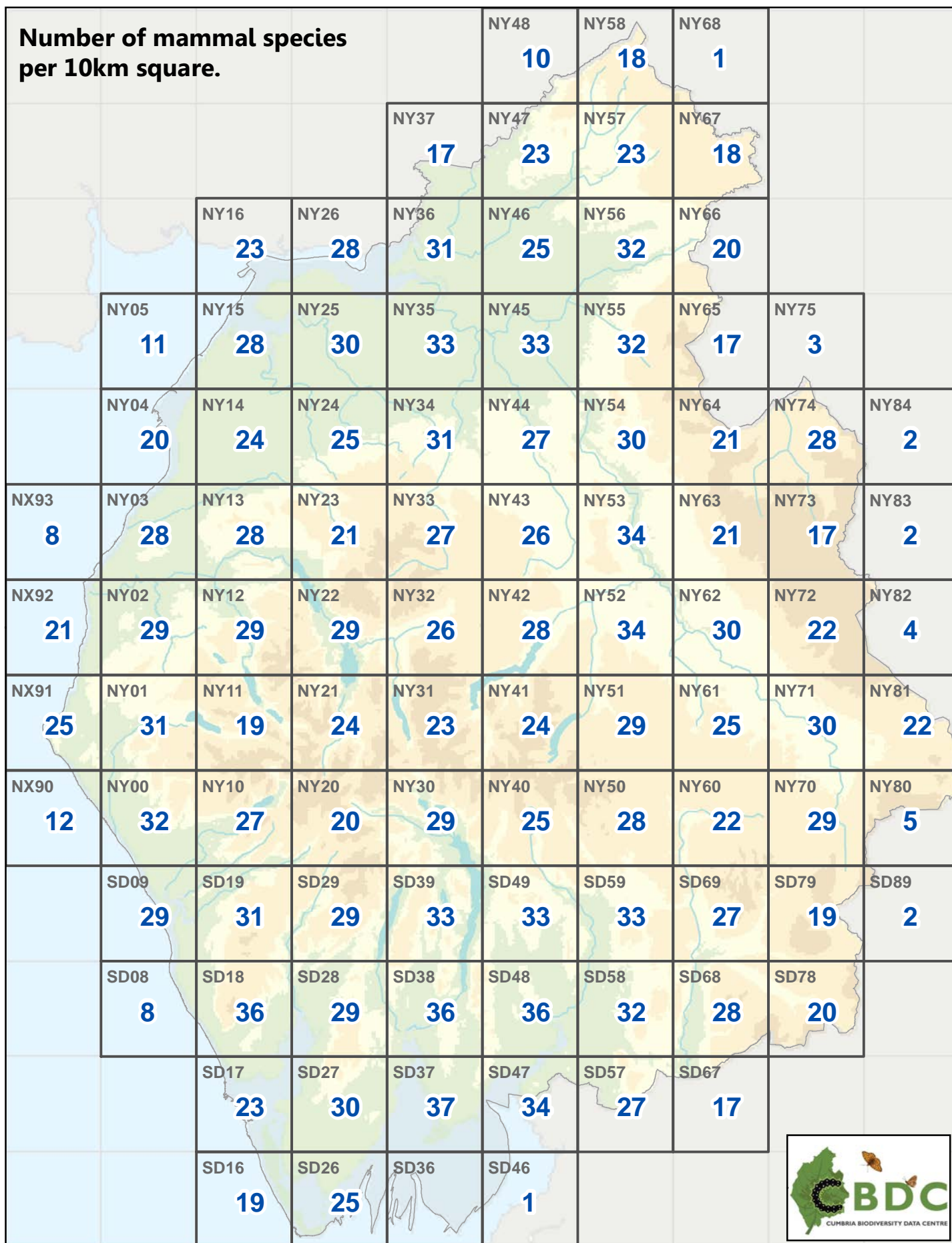
Those grid squares on the map with at least one record of the presence of that species may be either pre-2000, post-2000 (including the year 2000) or shown within both date ranges. The majority of squares are at tetrad (2km x 2km) resolution whereas others are shown at hectad (10km x 10km) level.

The map showing the number of mammal species per 10km square is a summary which can if required, be used by comparing it with the table of hectads at the back of the atlas, for a determination of which species are present within each hectad.

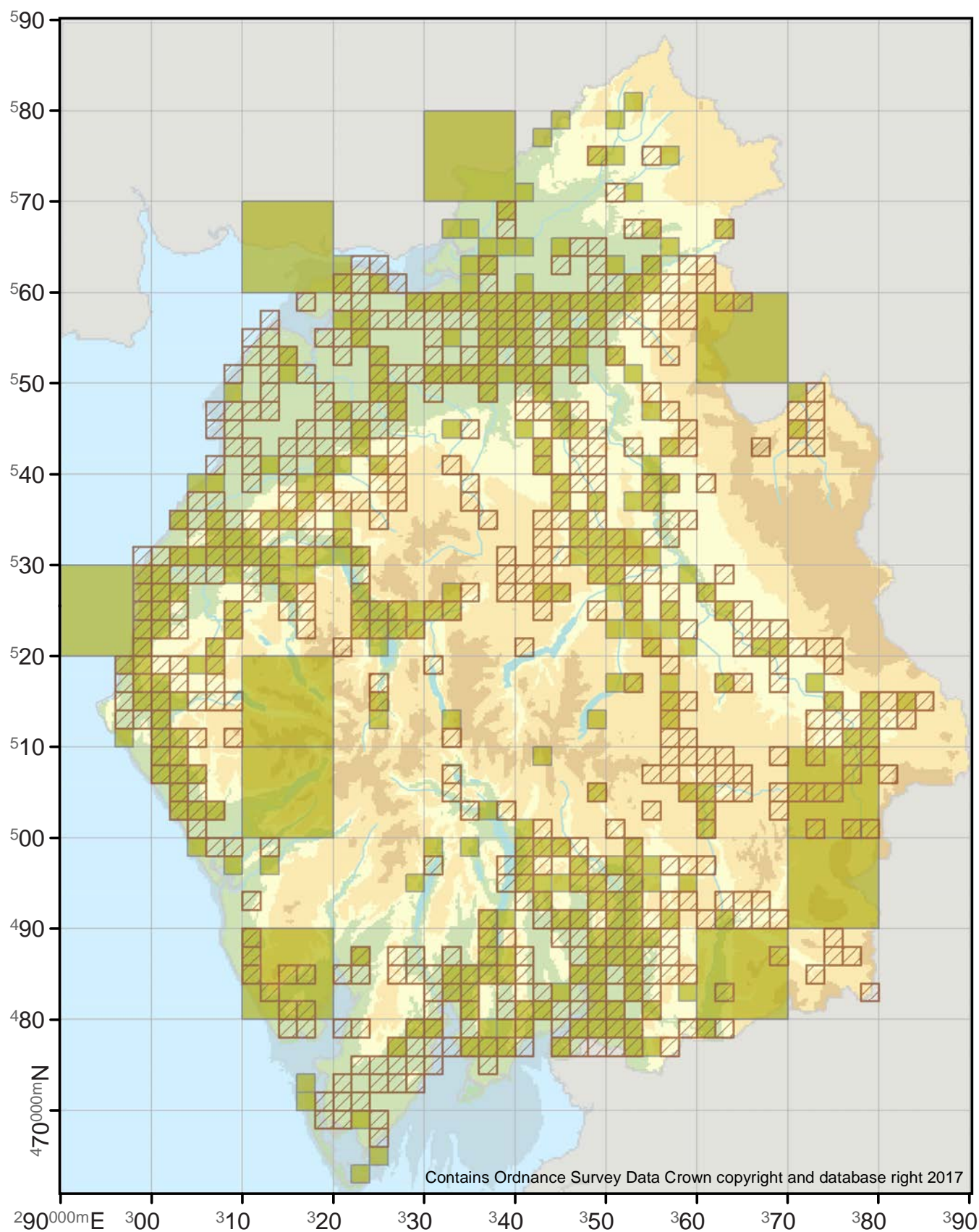
This atlas was inspired by Stephen Hewitt's work entitled *Cumbrian Mammals; a Distribution Atlas* published by Tullie House Museum, Carlisle in 2006.

We hope you find The Cumbrian Mammal Atlas useful.

**Number of mammal species  
per 10km square.**





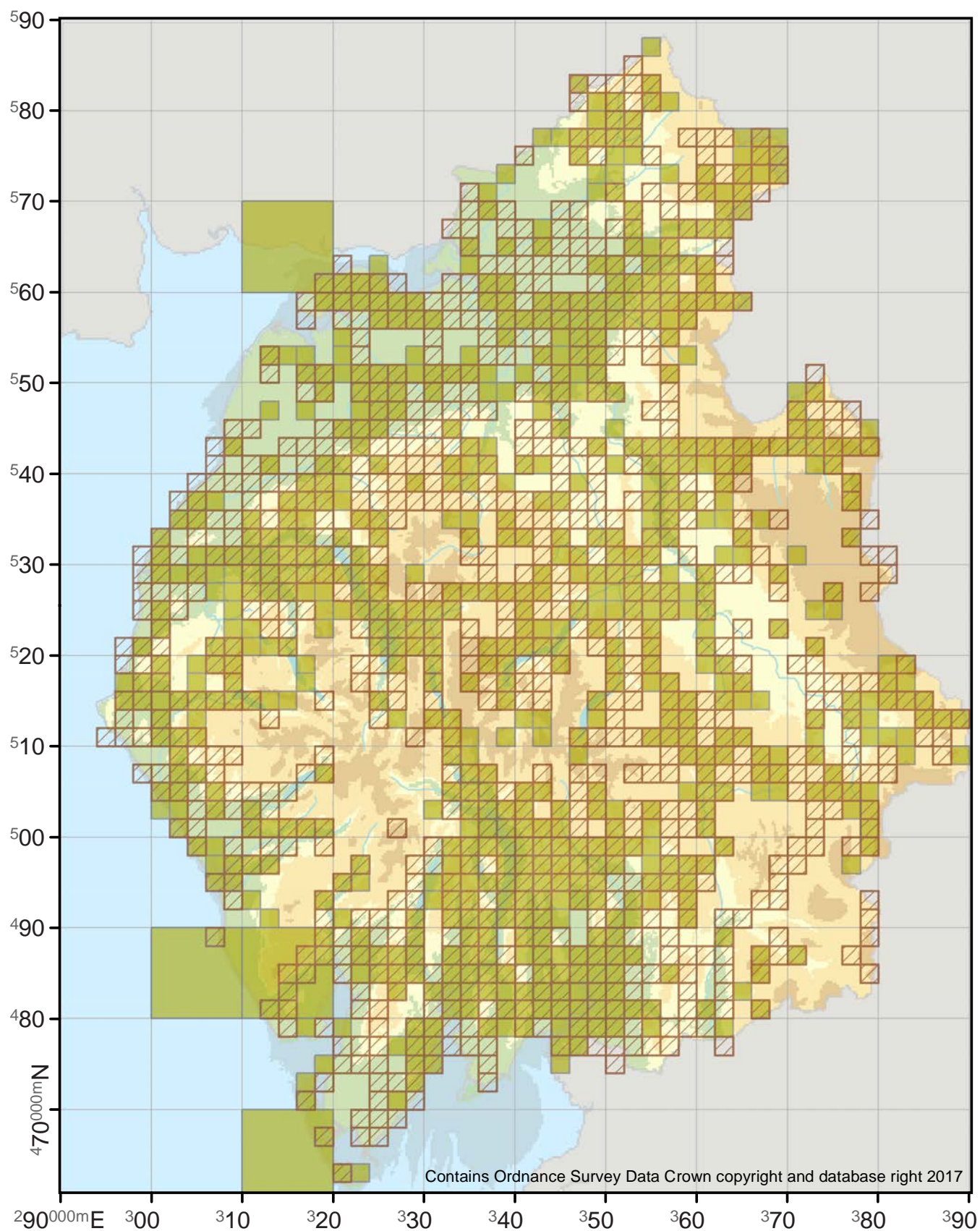


## West European Hedgehog

-  Post 2000
-  Pre 2000



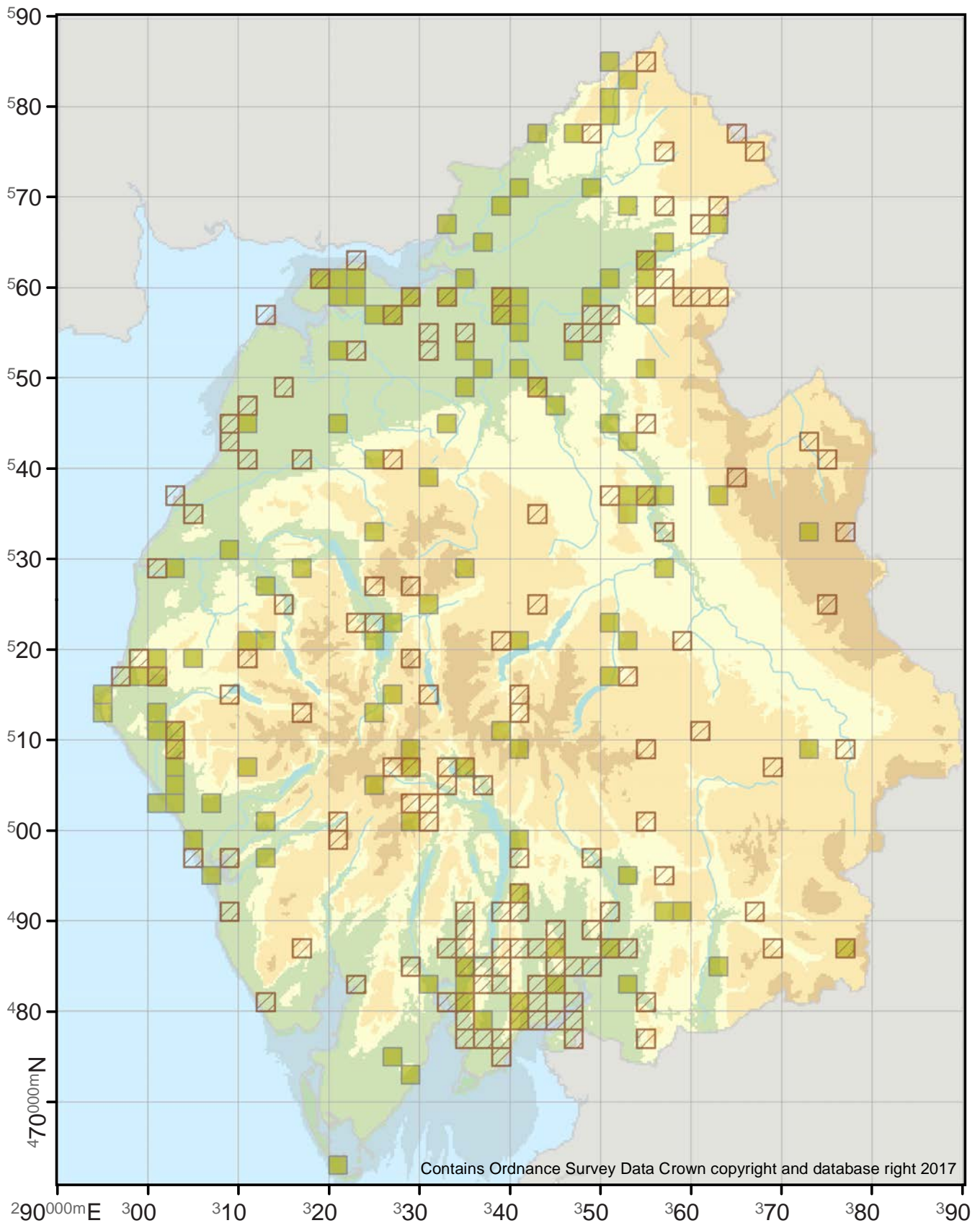




## European Mole

-  Post 2000
-  Pre 2000



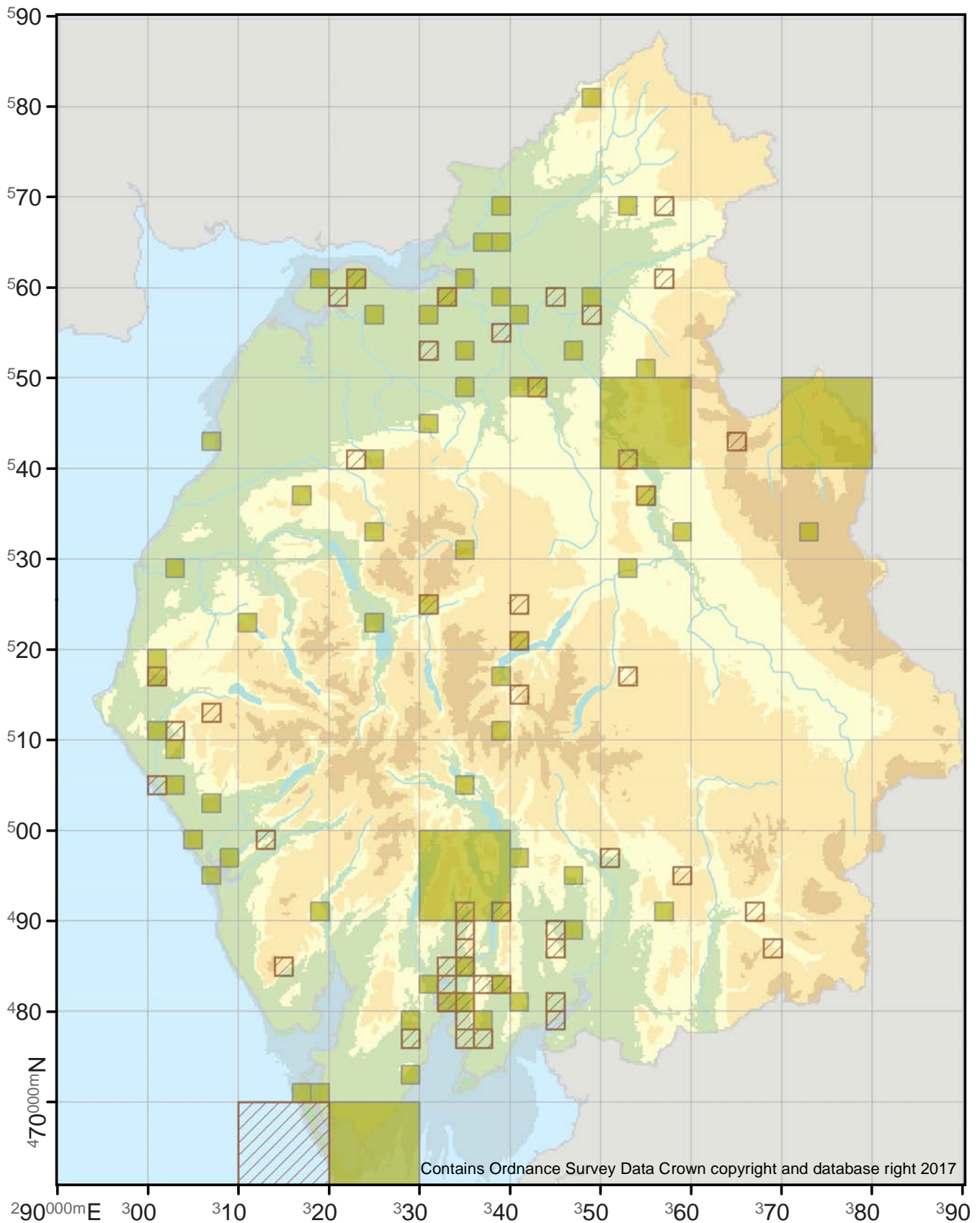


## Eurasian Common Shrew

- Post 2000
- Pre 2000



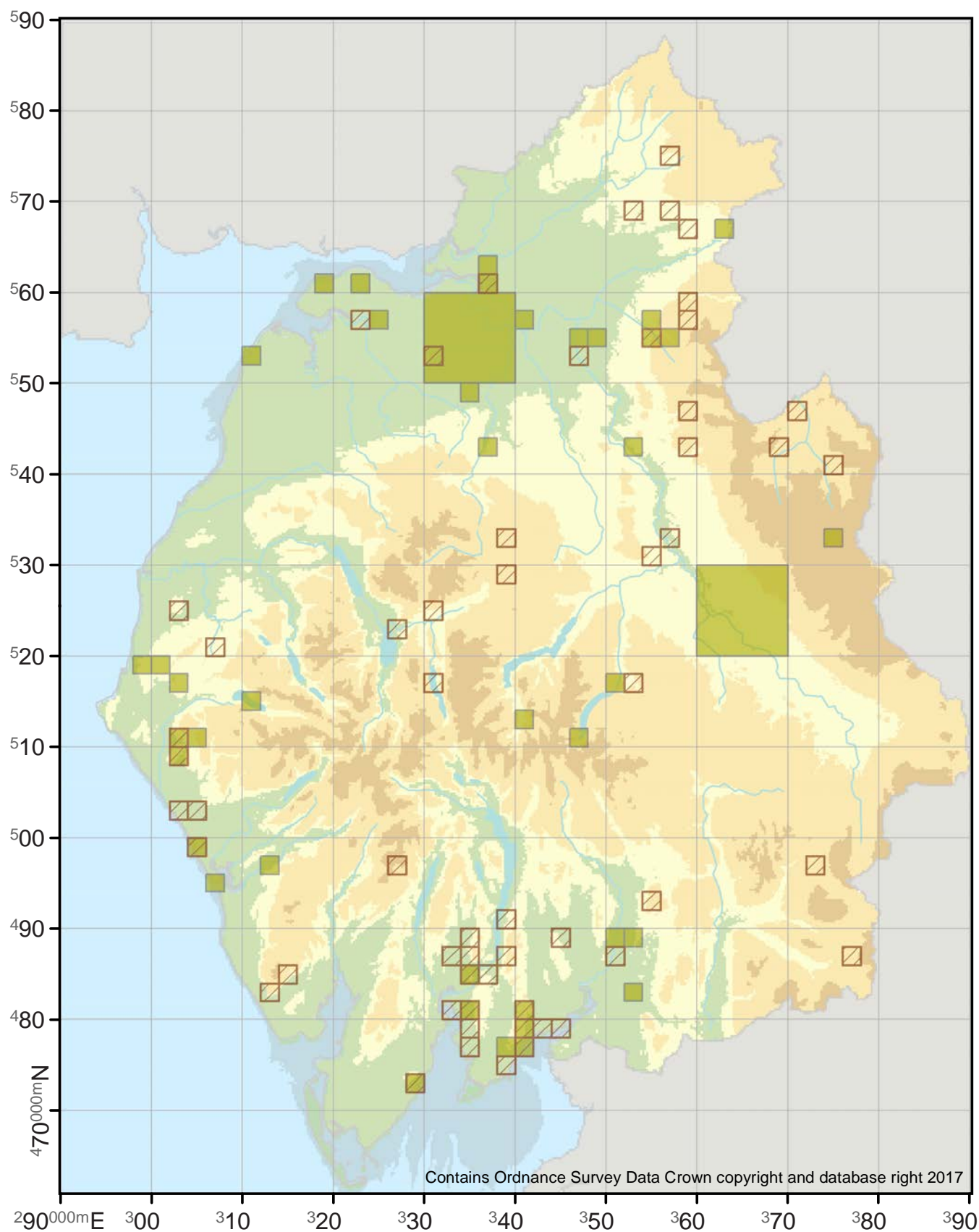




## Eurasian Pygmy Shrew

-  Post 2000
-  Pre 2000



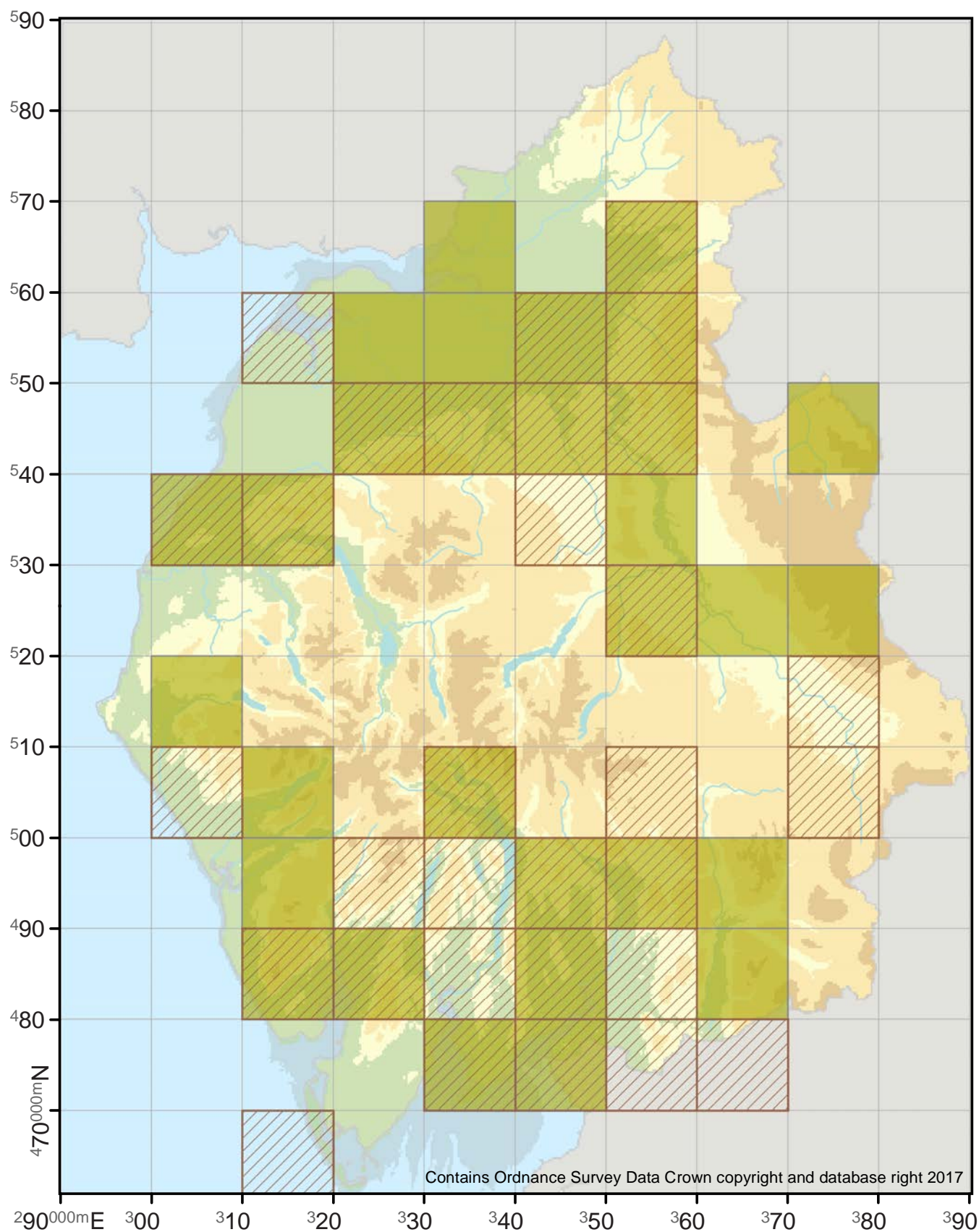


## Eurasian Water Shrew

- Post 2000
- Pre 2000





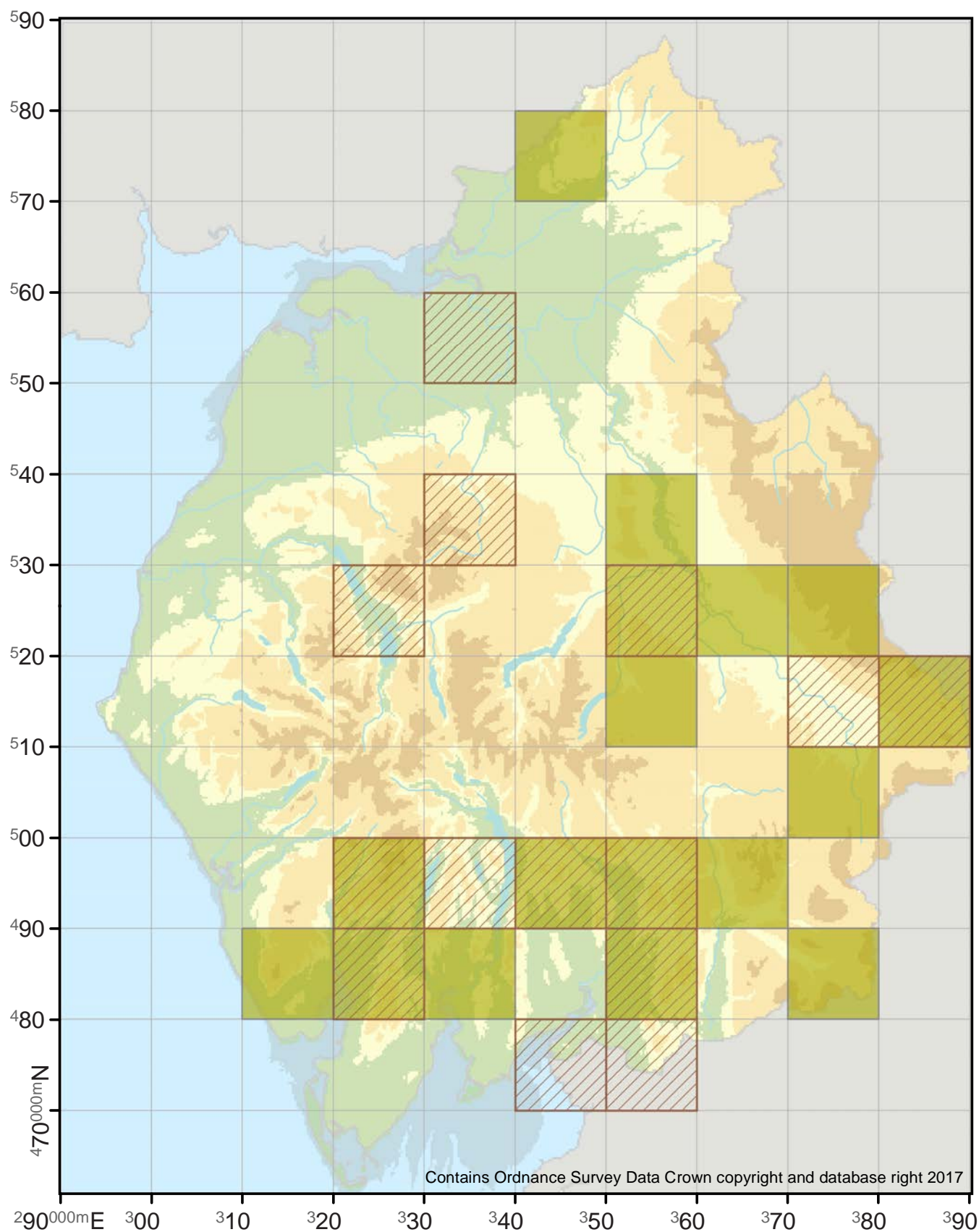


## Whiskered Bat

-  Post 2000
-  Pre 2000



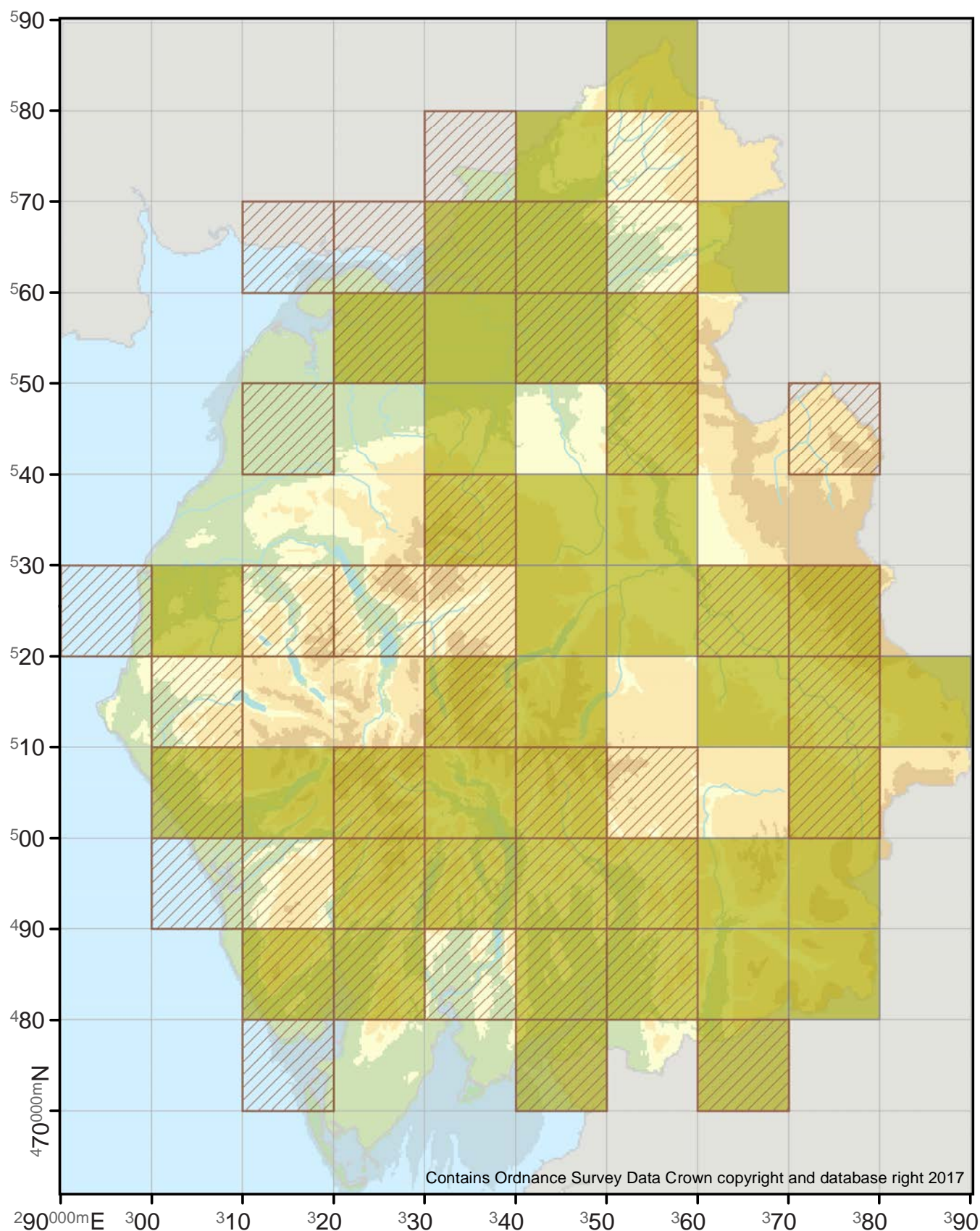




## Brandt's Bat

-  Post 2000
-  Pre 2000



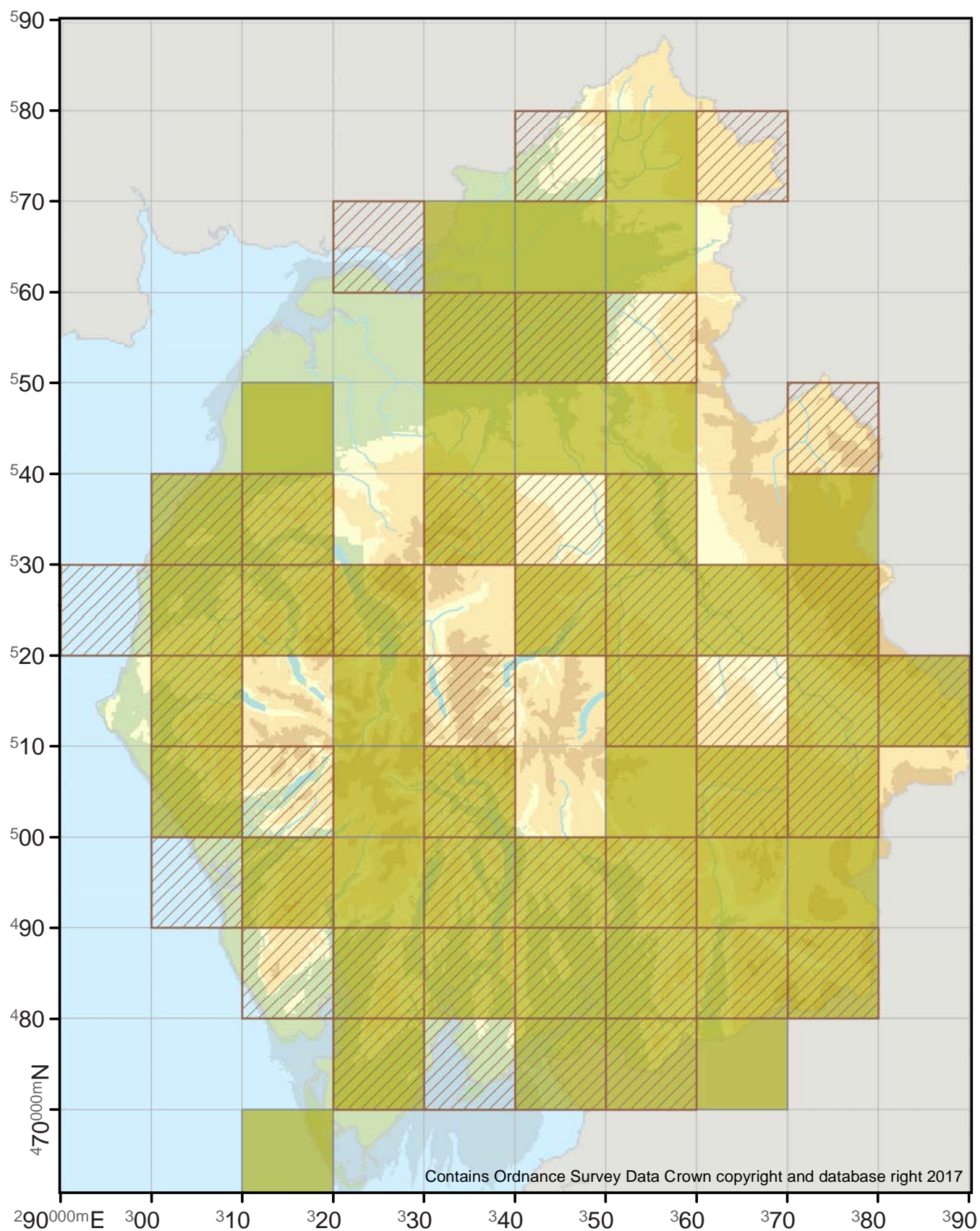


## Natterer's Bat

- Post 2000
- Pre 2000





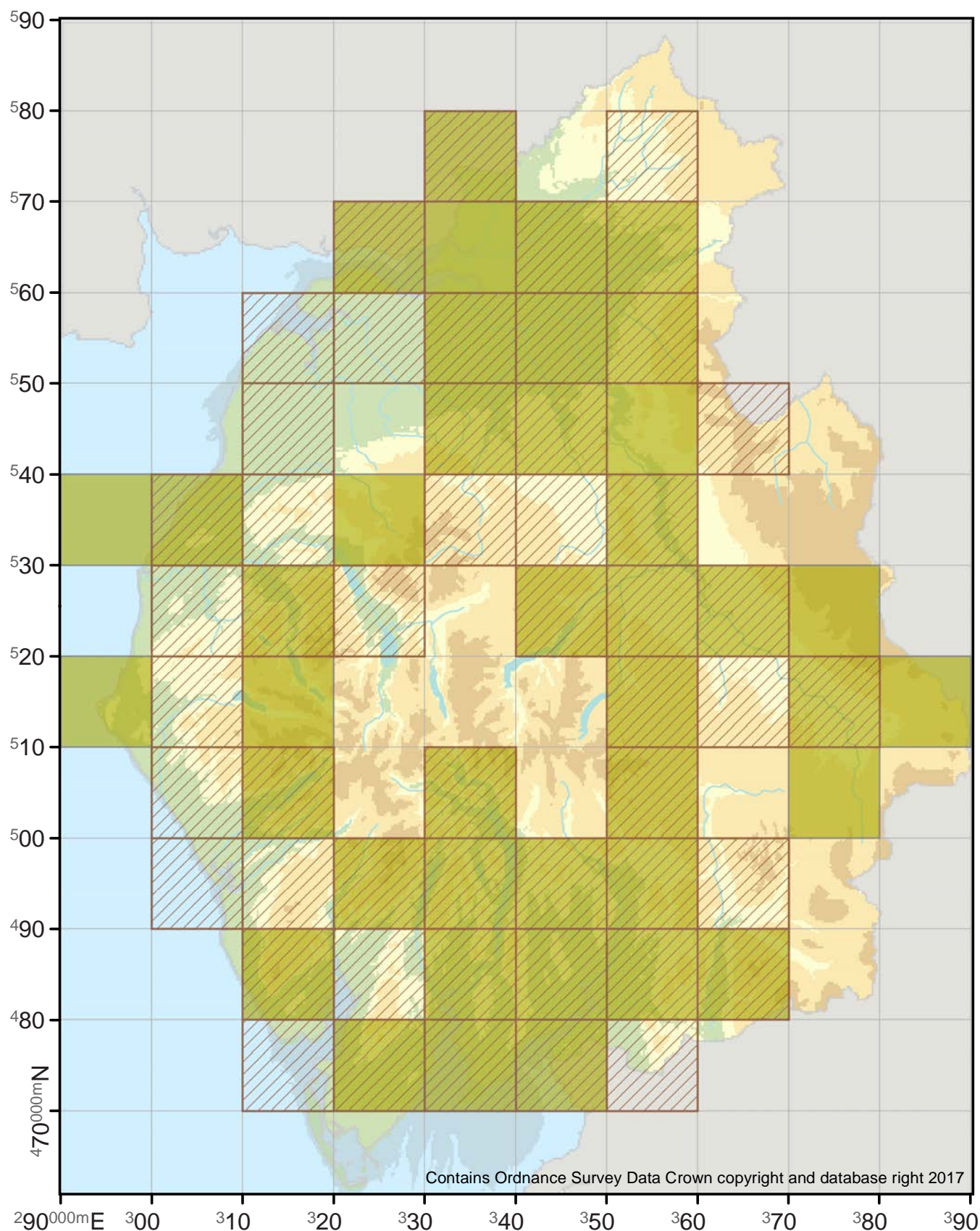


## Daubenton's Bat

-  Post 2000
-  Pre 2000





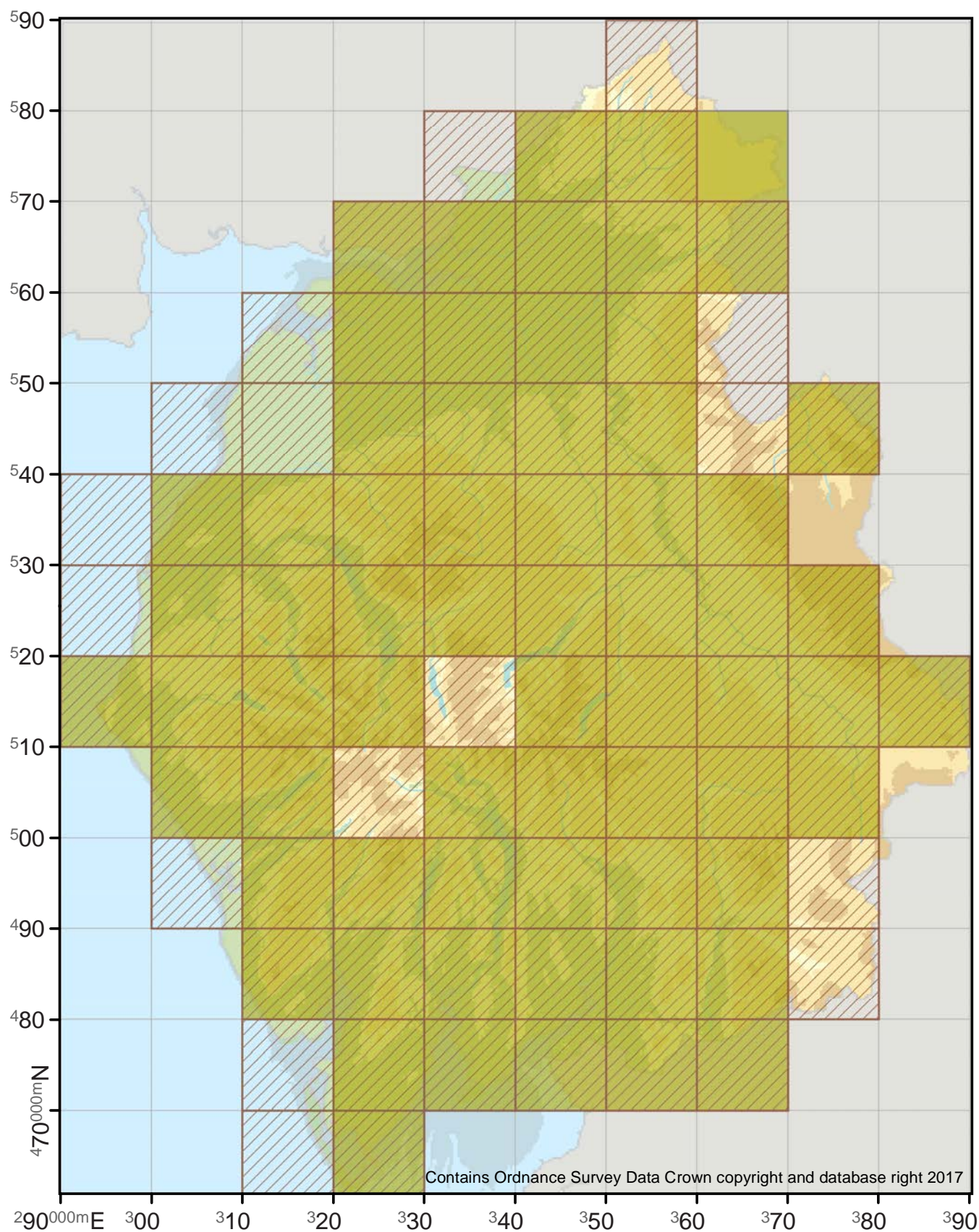


## Noctule Bat

-  Post 2000
-  Pre 2000





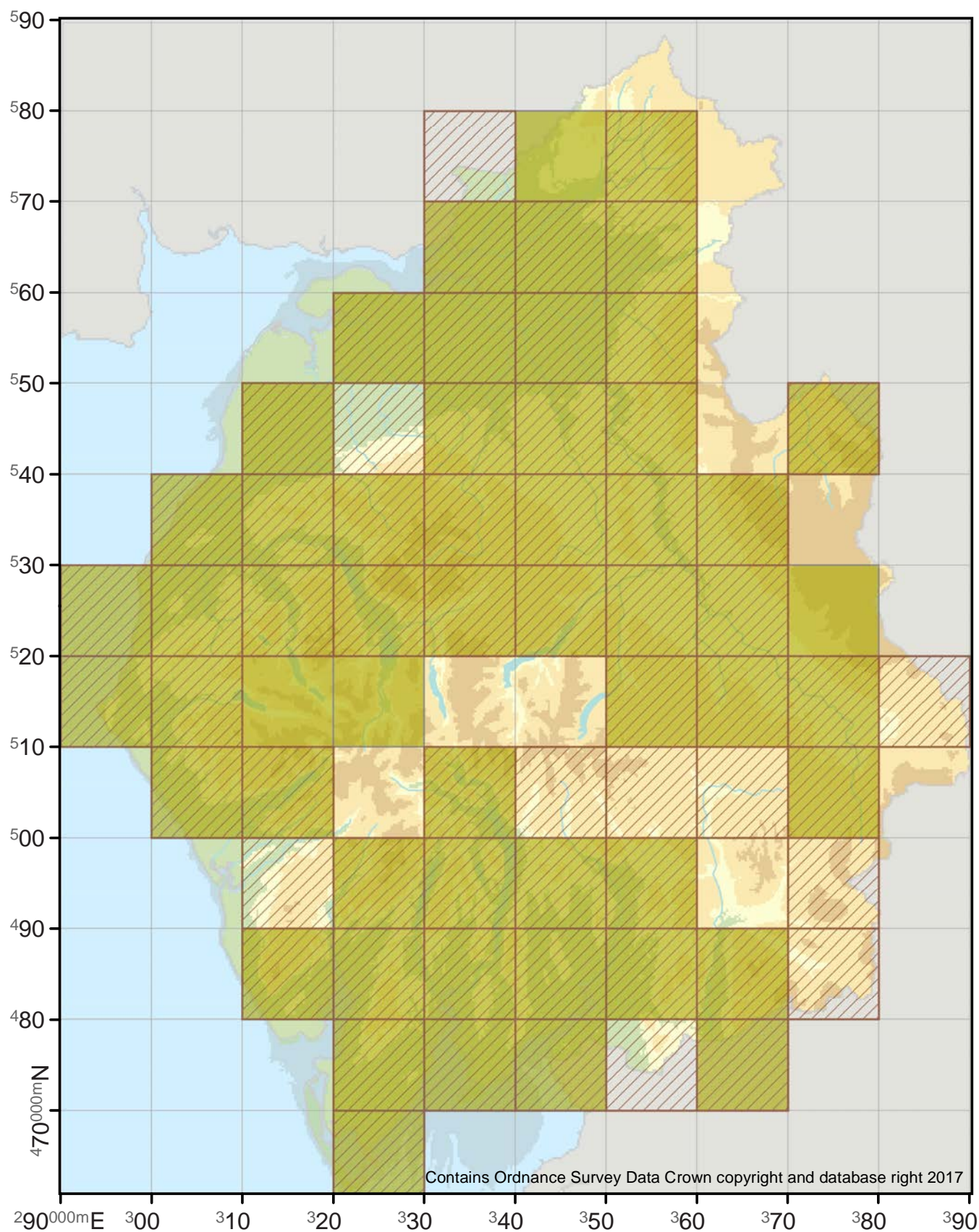


## Pipistrelles

-  Post 2000
-  Pre 2000



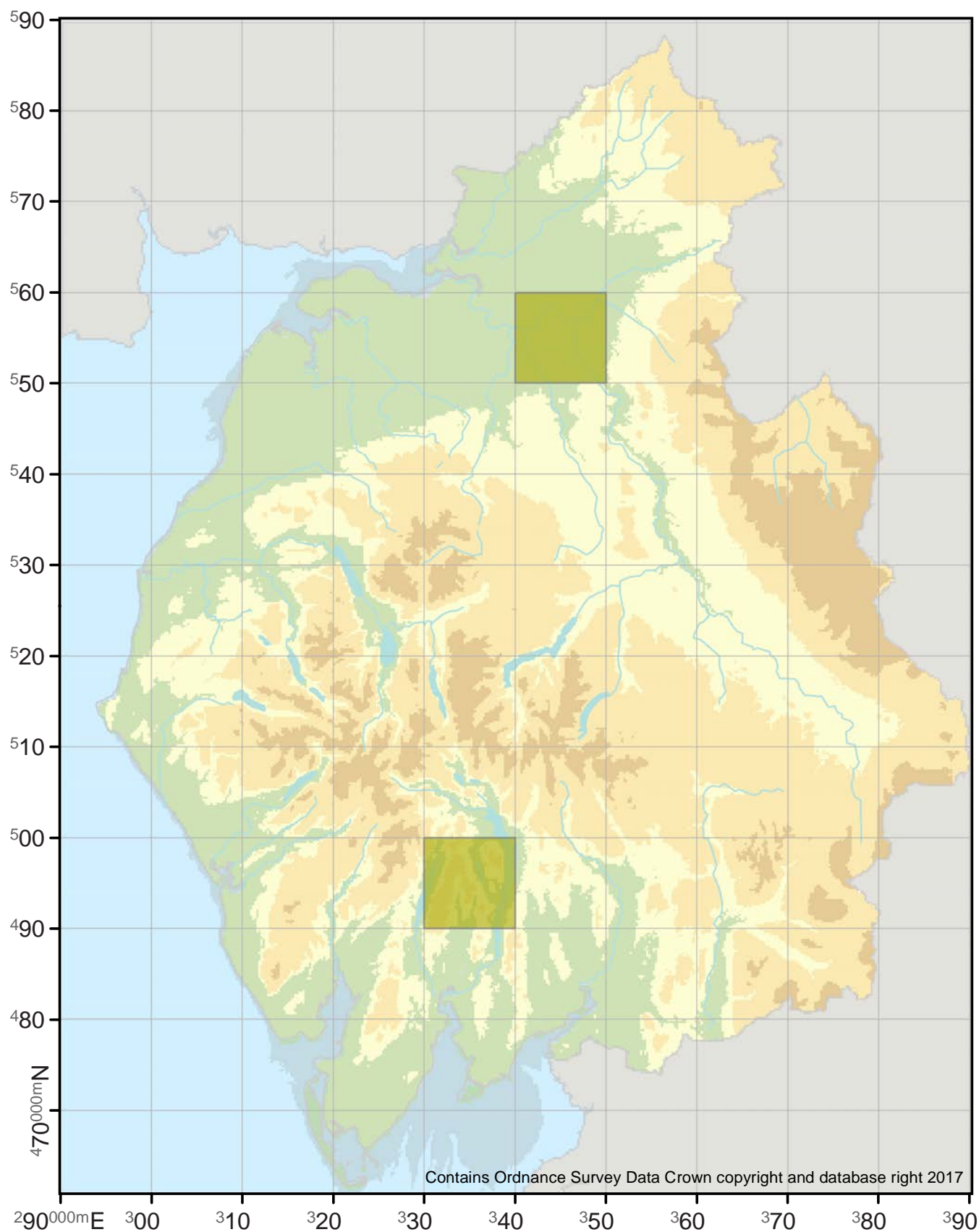




## Brown Long-eared Bat

-  Post 2000
-  Pre 2000



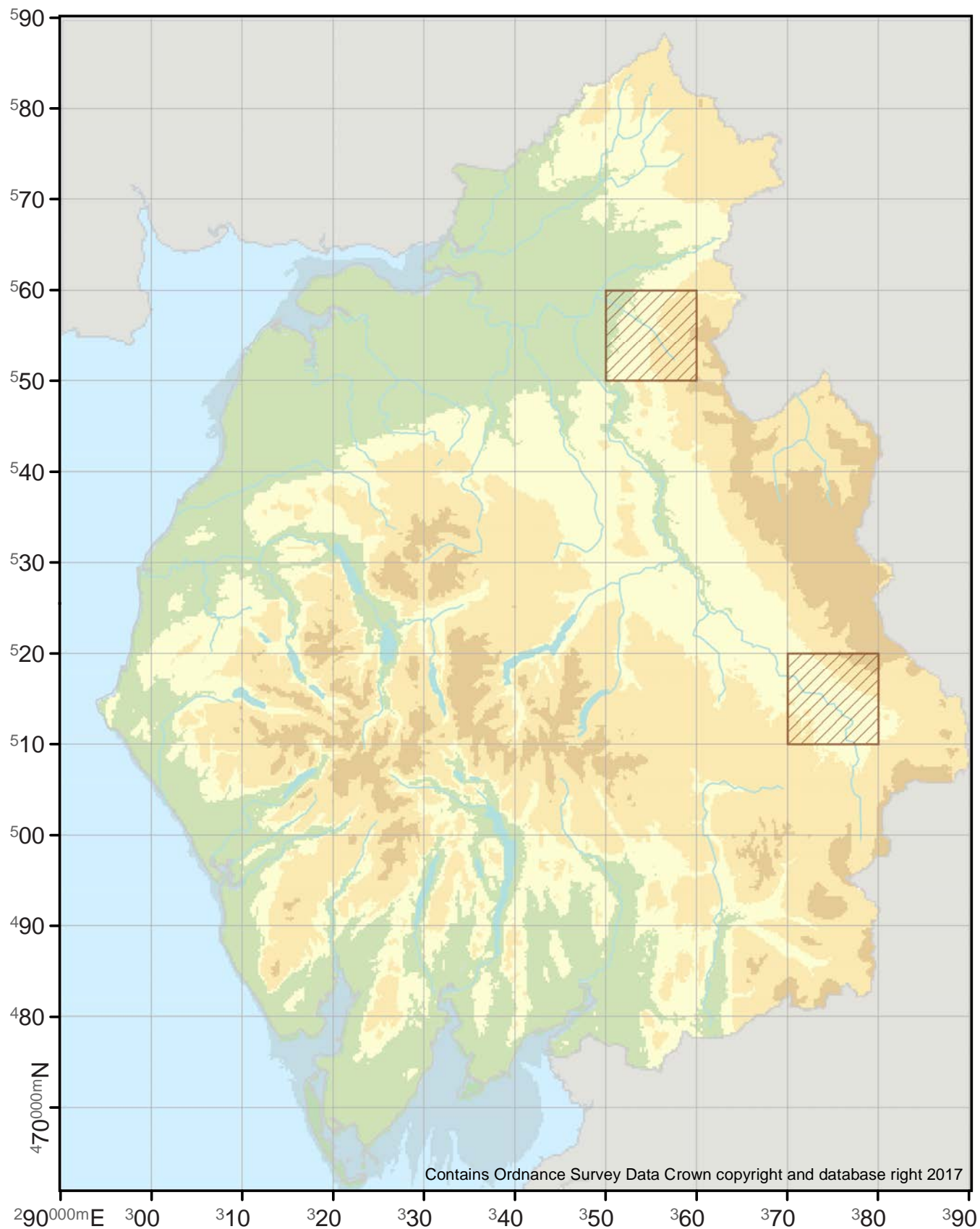


## Western Barbastelle

-  Post 2000
-  Pre 2000



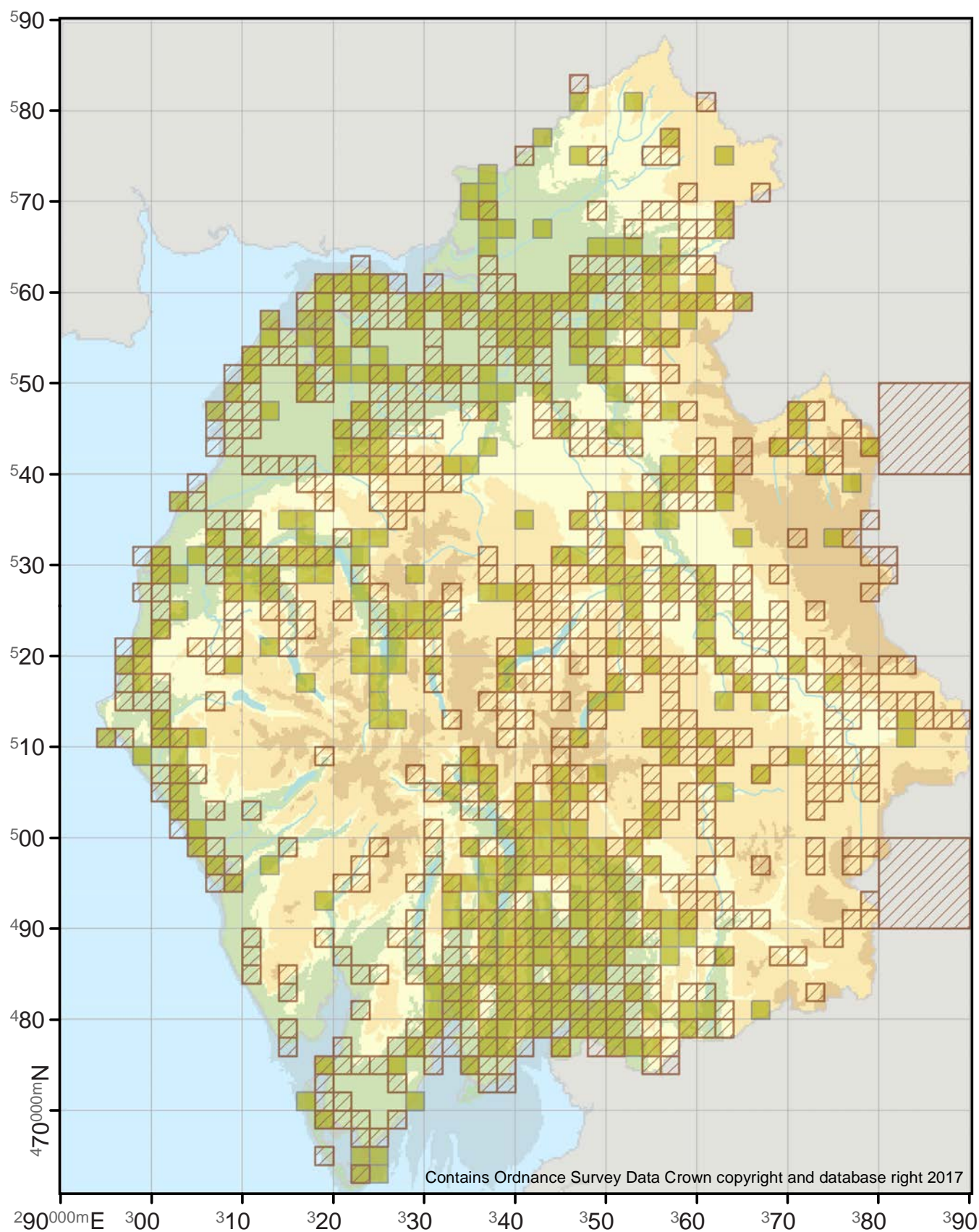




## Leisler's Bat

-  Post 2000
-  Pre 2000



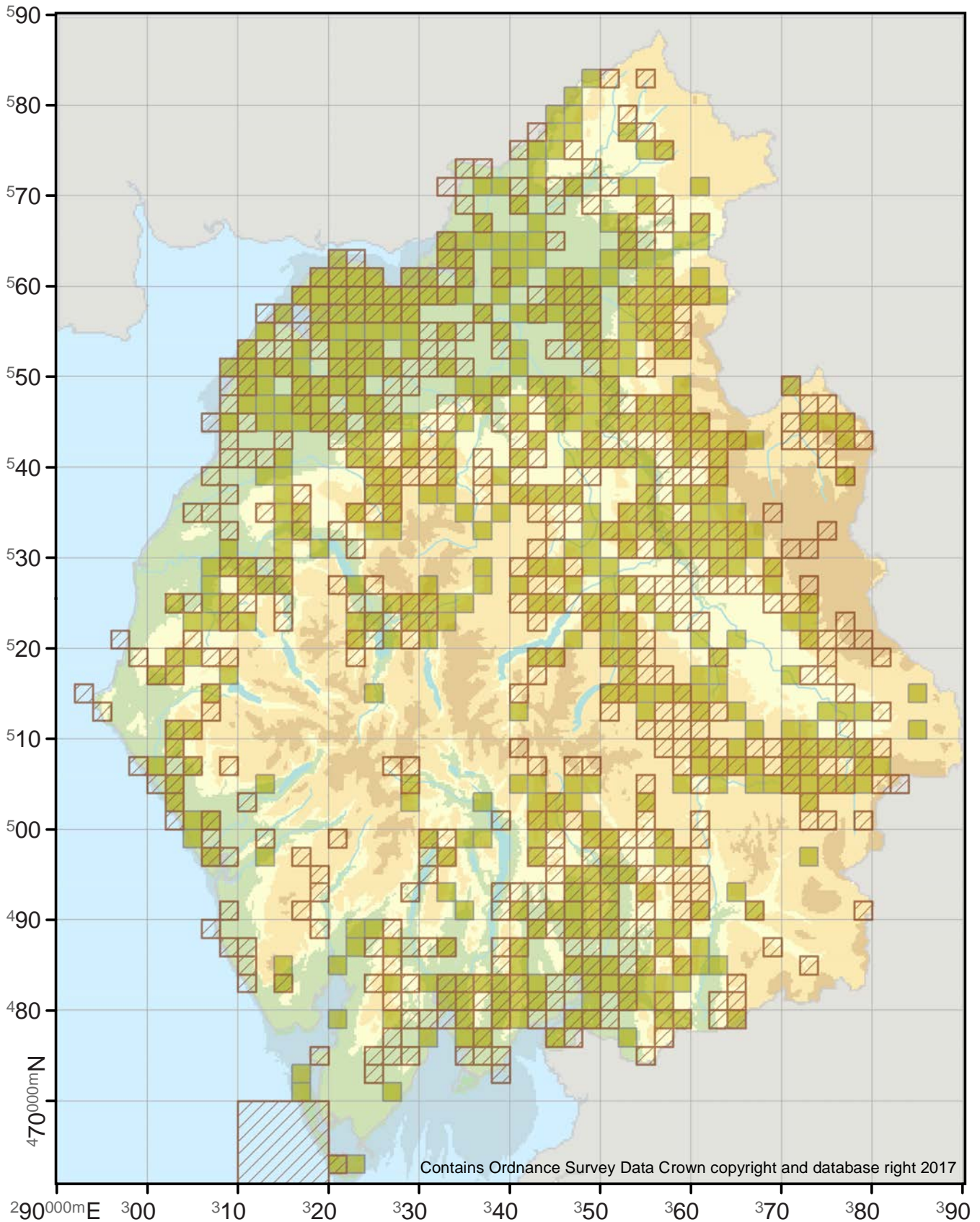


## European Rabbit

-  Post 2000
-  Pre 2000





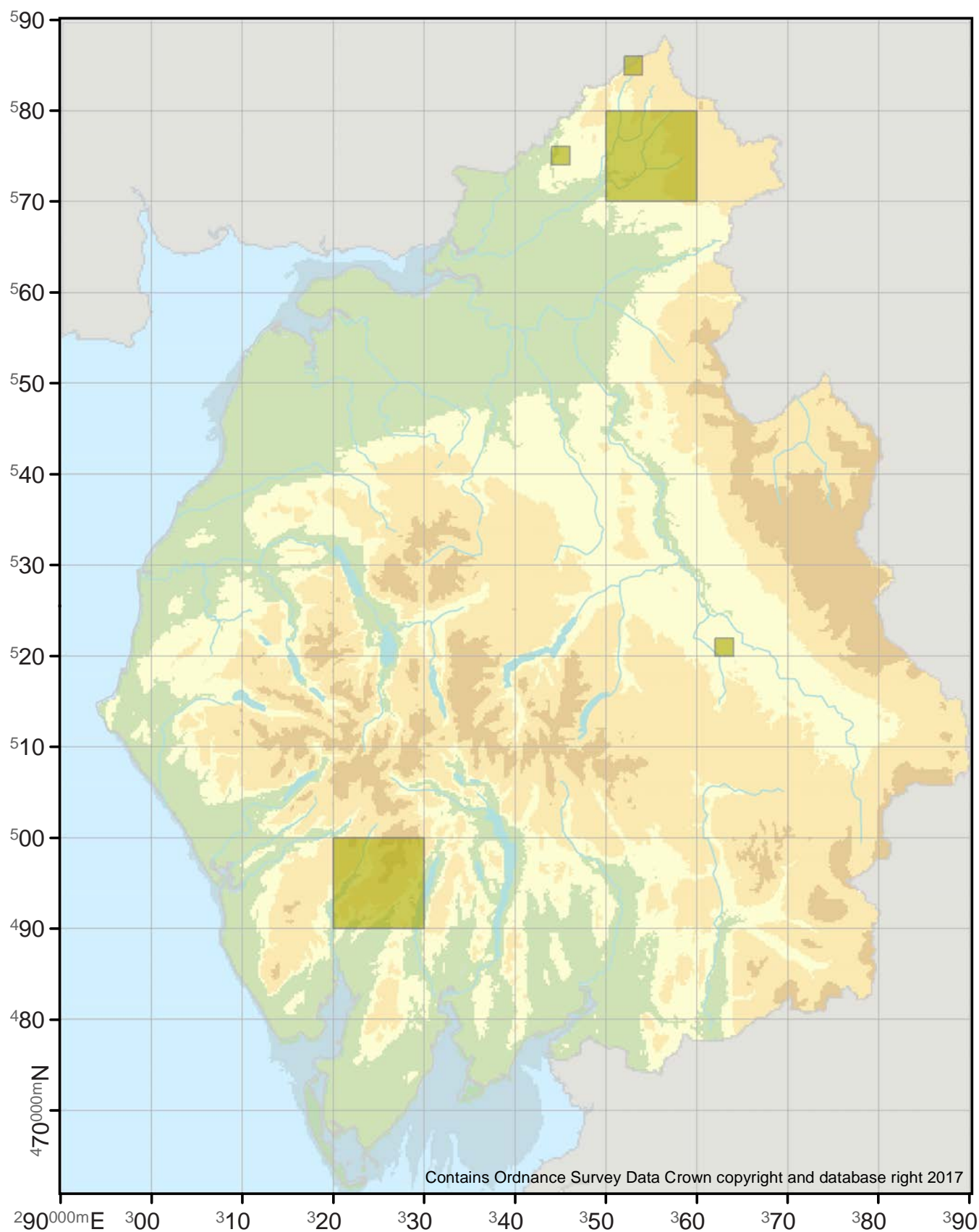


## Brown Hare

-  Post 2000
-  Pre 2000



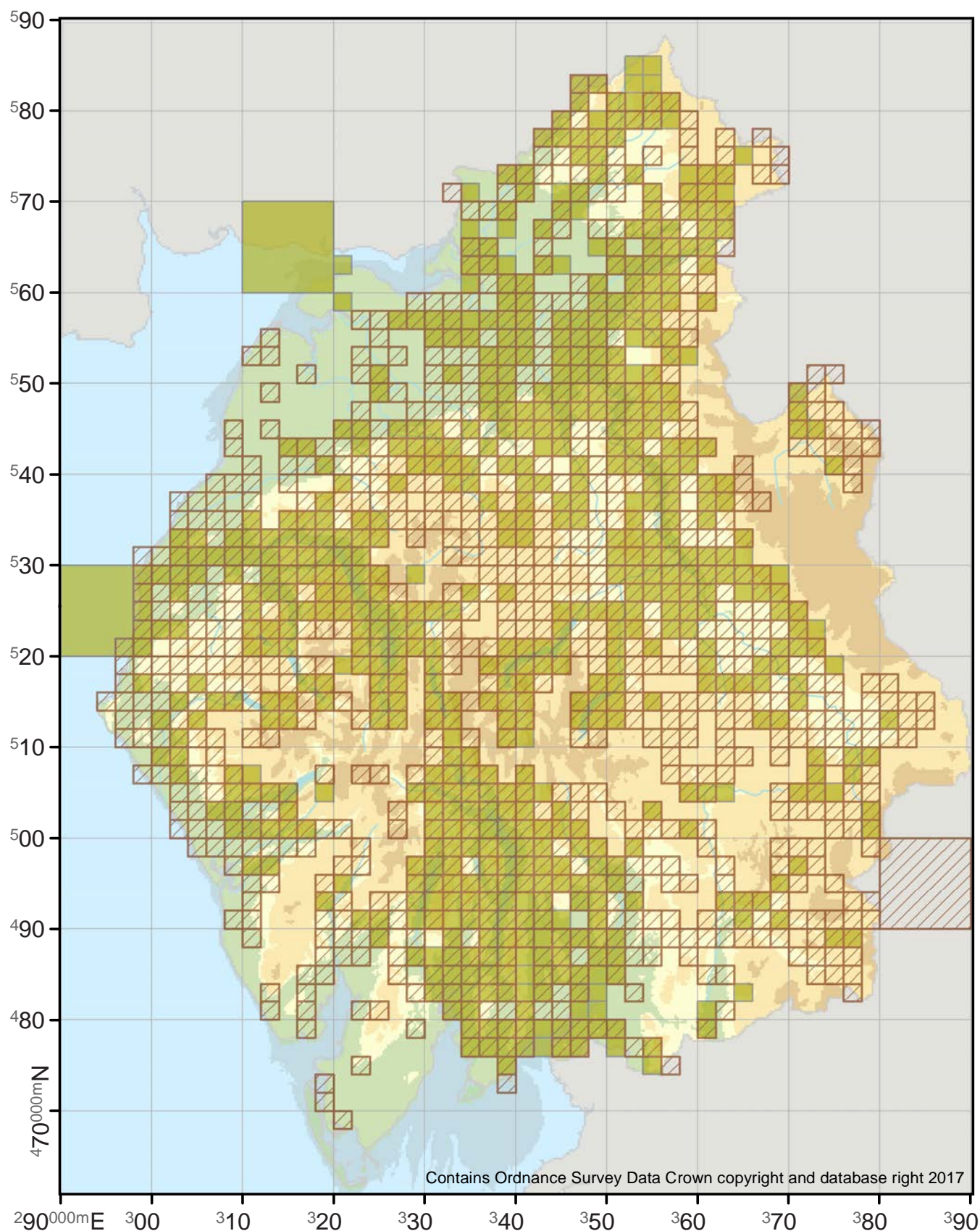




## Mountain Hare

- Post 2000
- Pre 2000



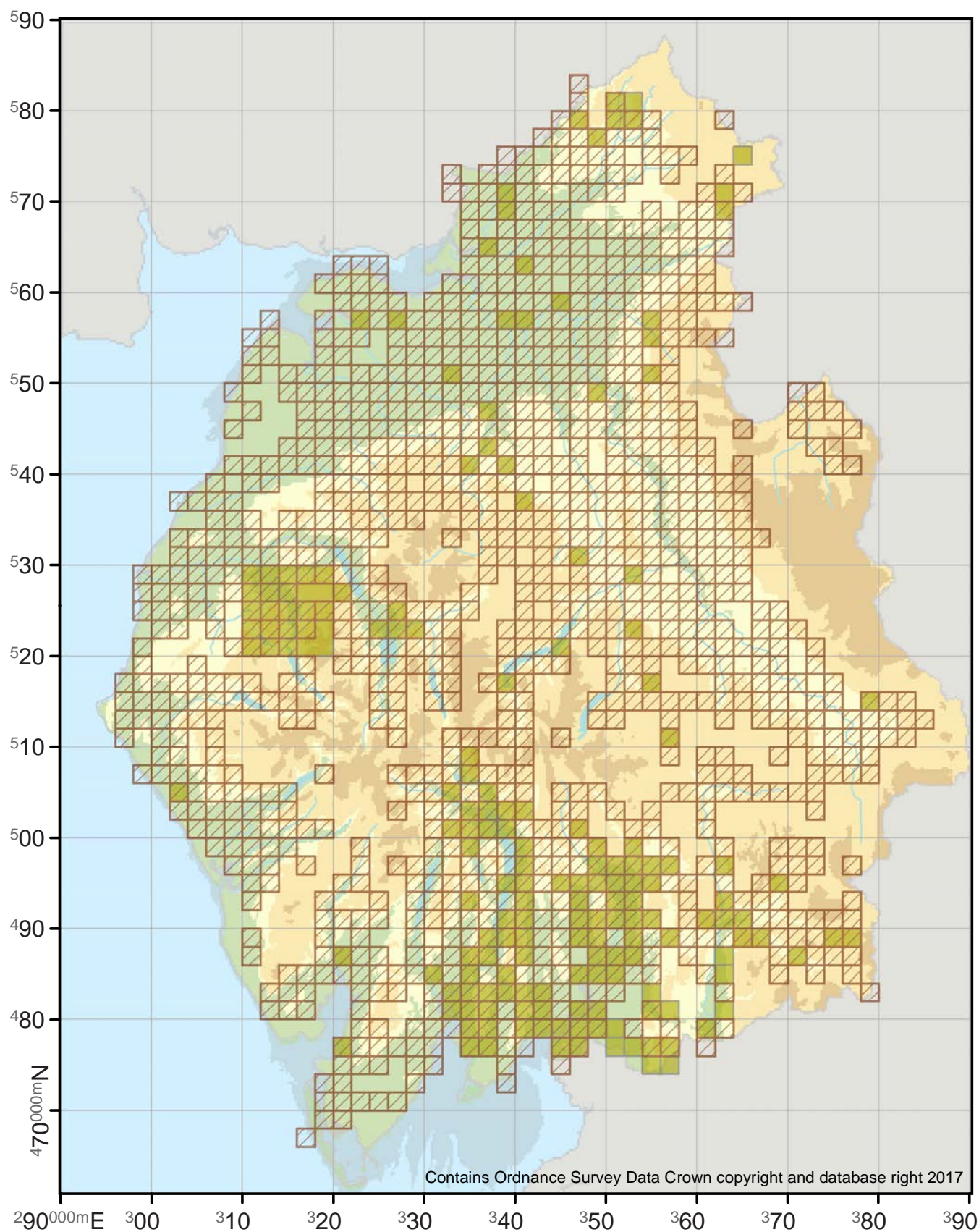


## Eurasian Red Squirrel

- Post 2000
- Pre 2000



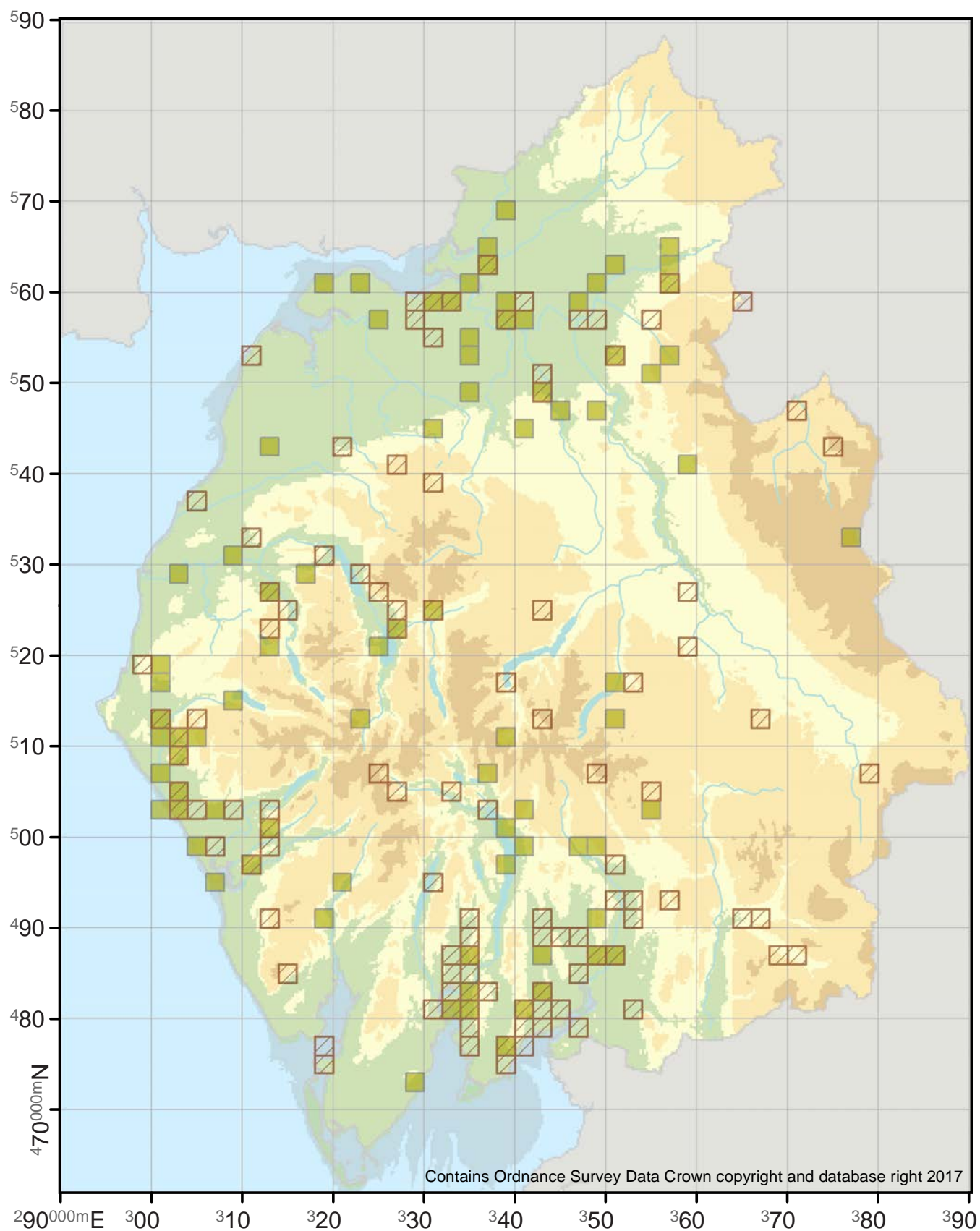




## Eastern Grey Squirrel

-  Post 2000
-  Pre 2000



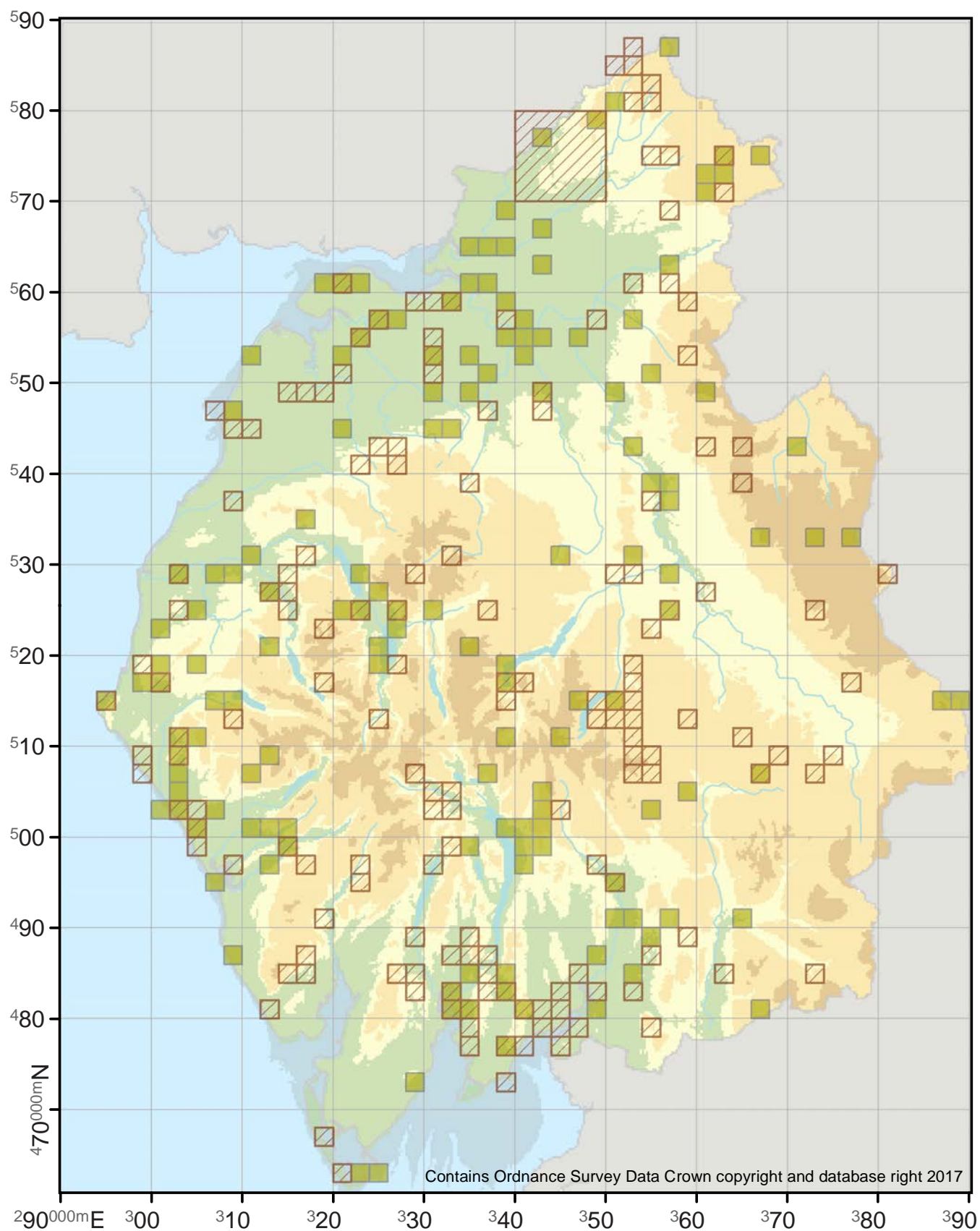


## Bank Vole

-  Post 2000
-  Pre 2000





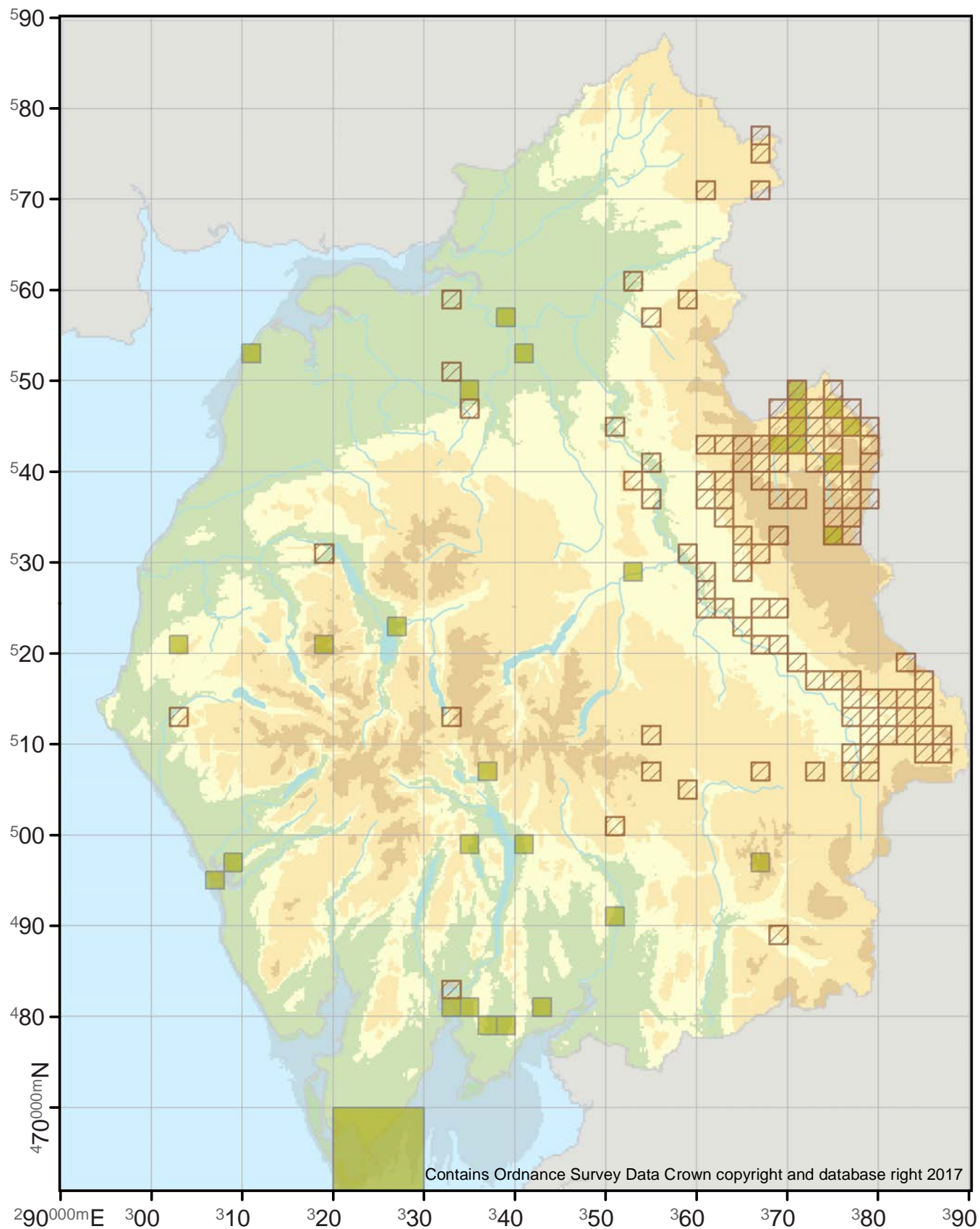


## Field Vole

-  Post 2000
-  Pre 2000



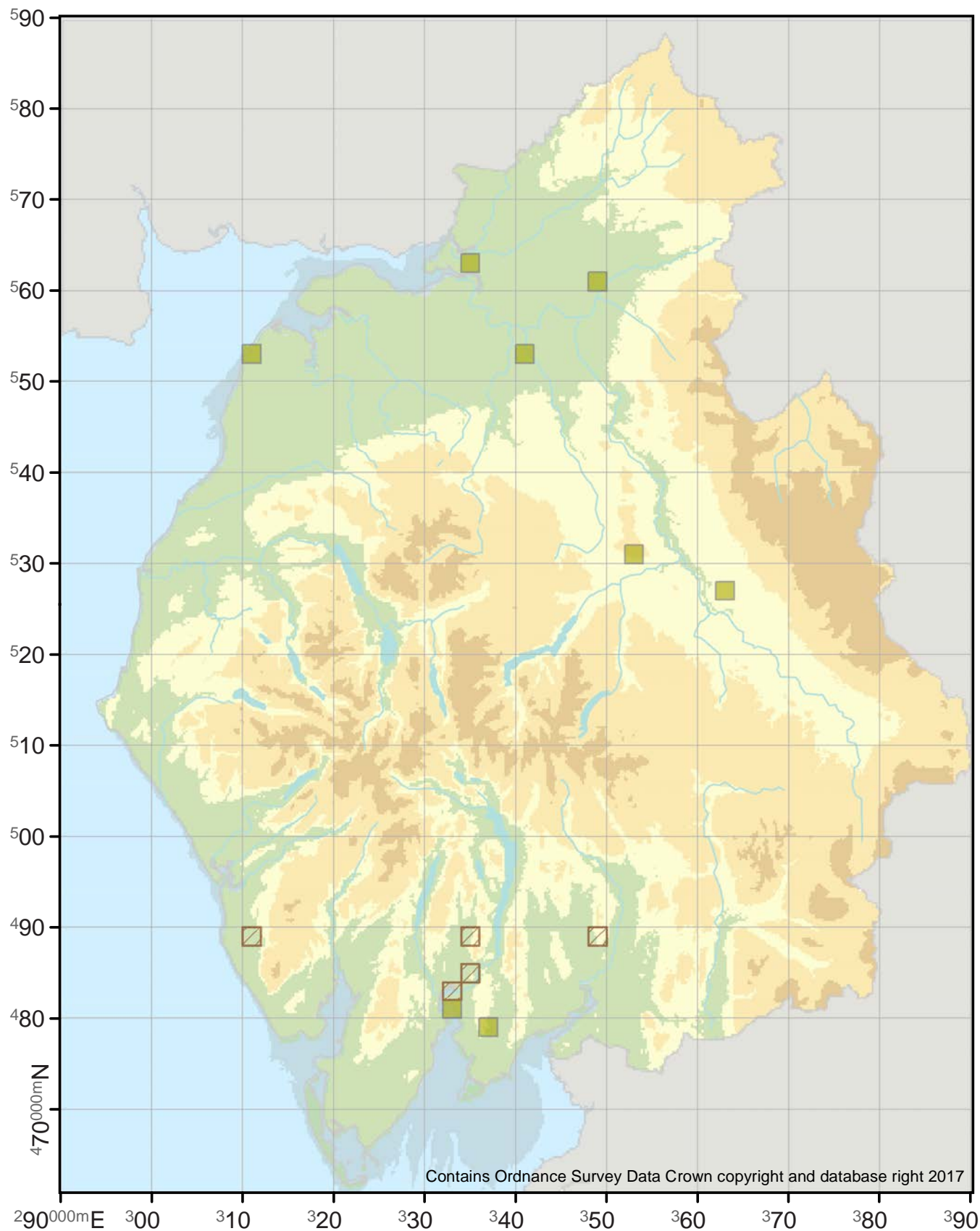




## European Water Vole

- Post 2000
- Pre 2000



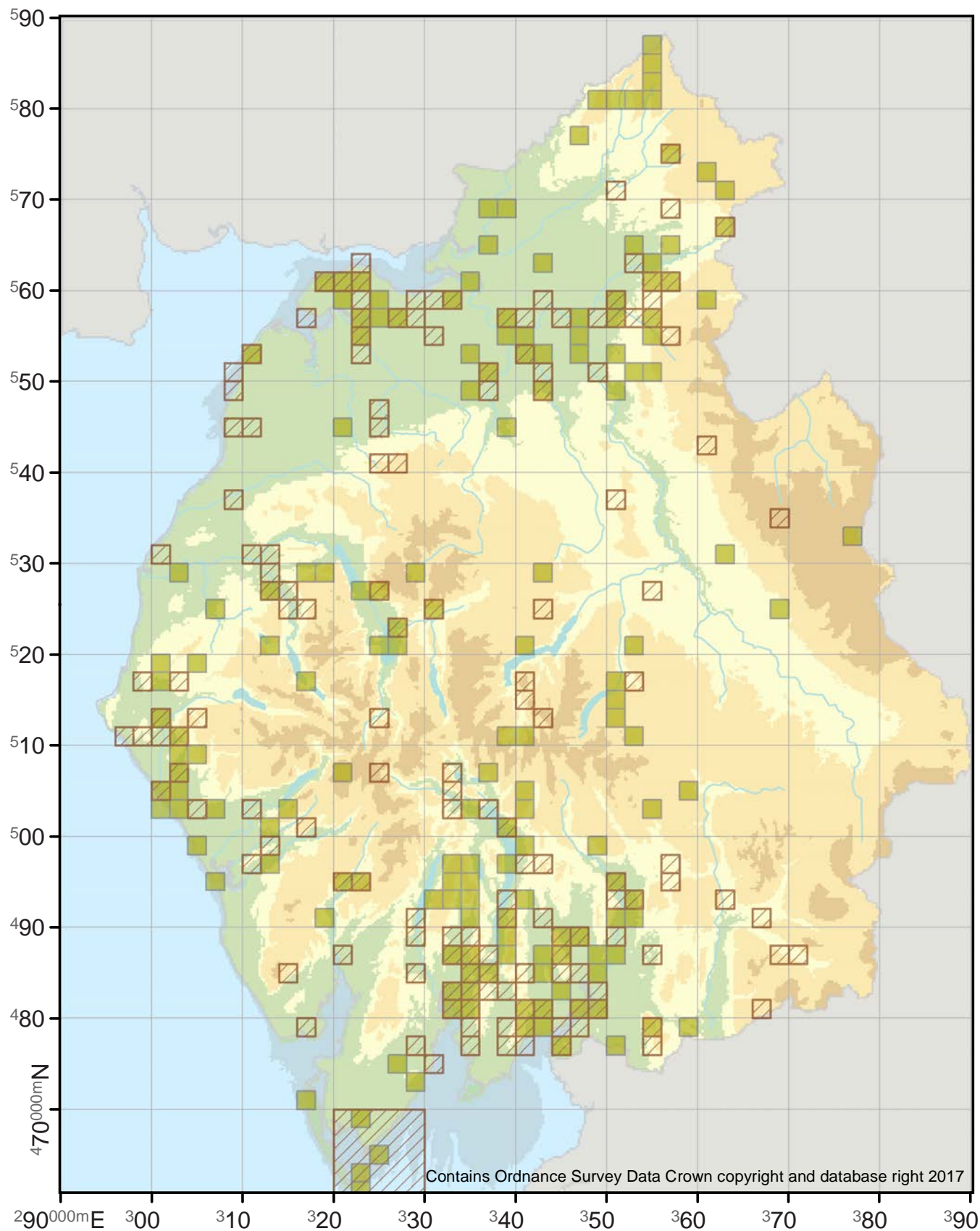


## Harvest Mouse

-  Post 2000
-  Pre 2000



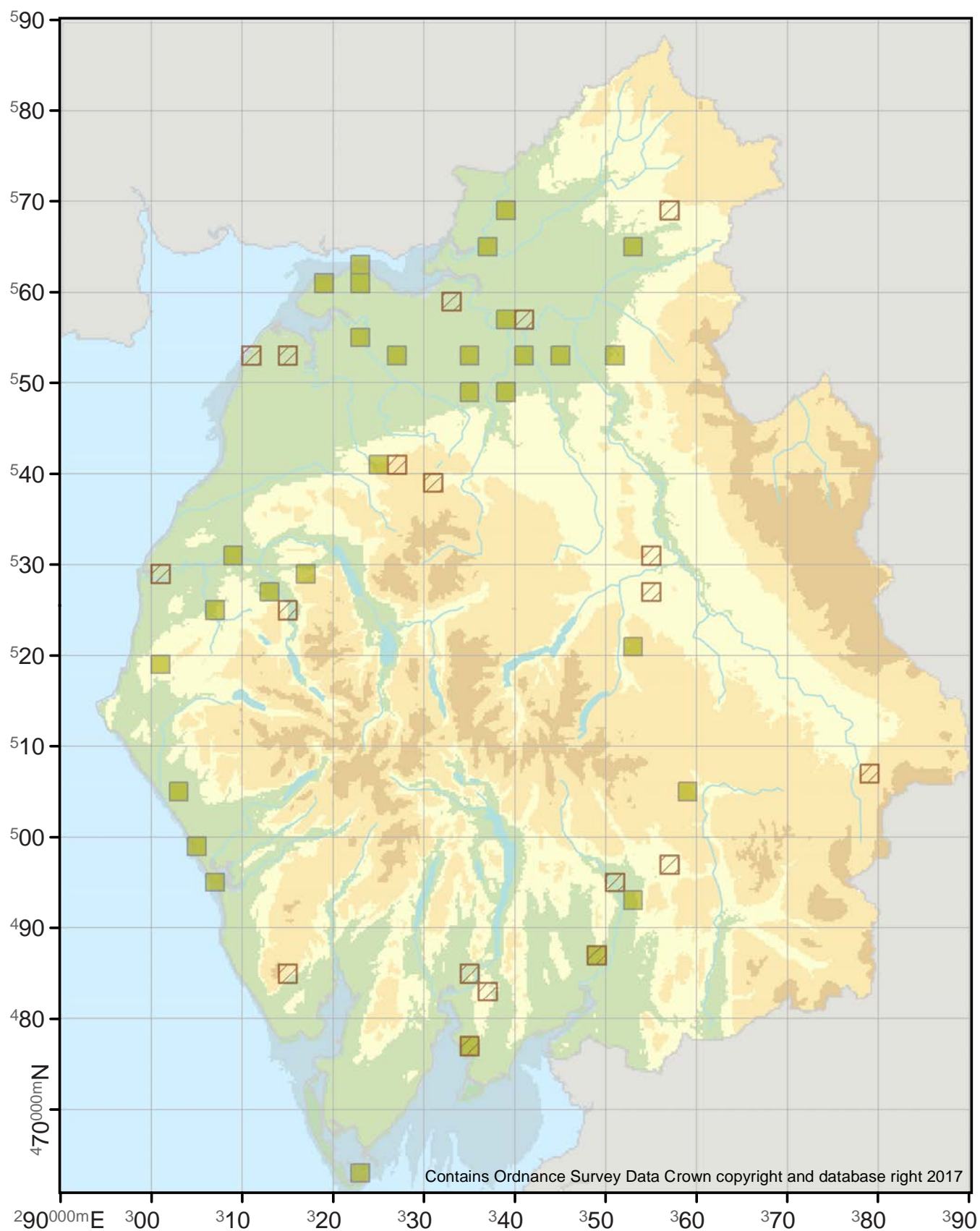




## Wood Mouse

-  Post 2000
-  Pre 2000



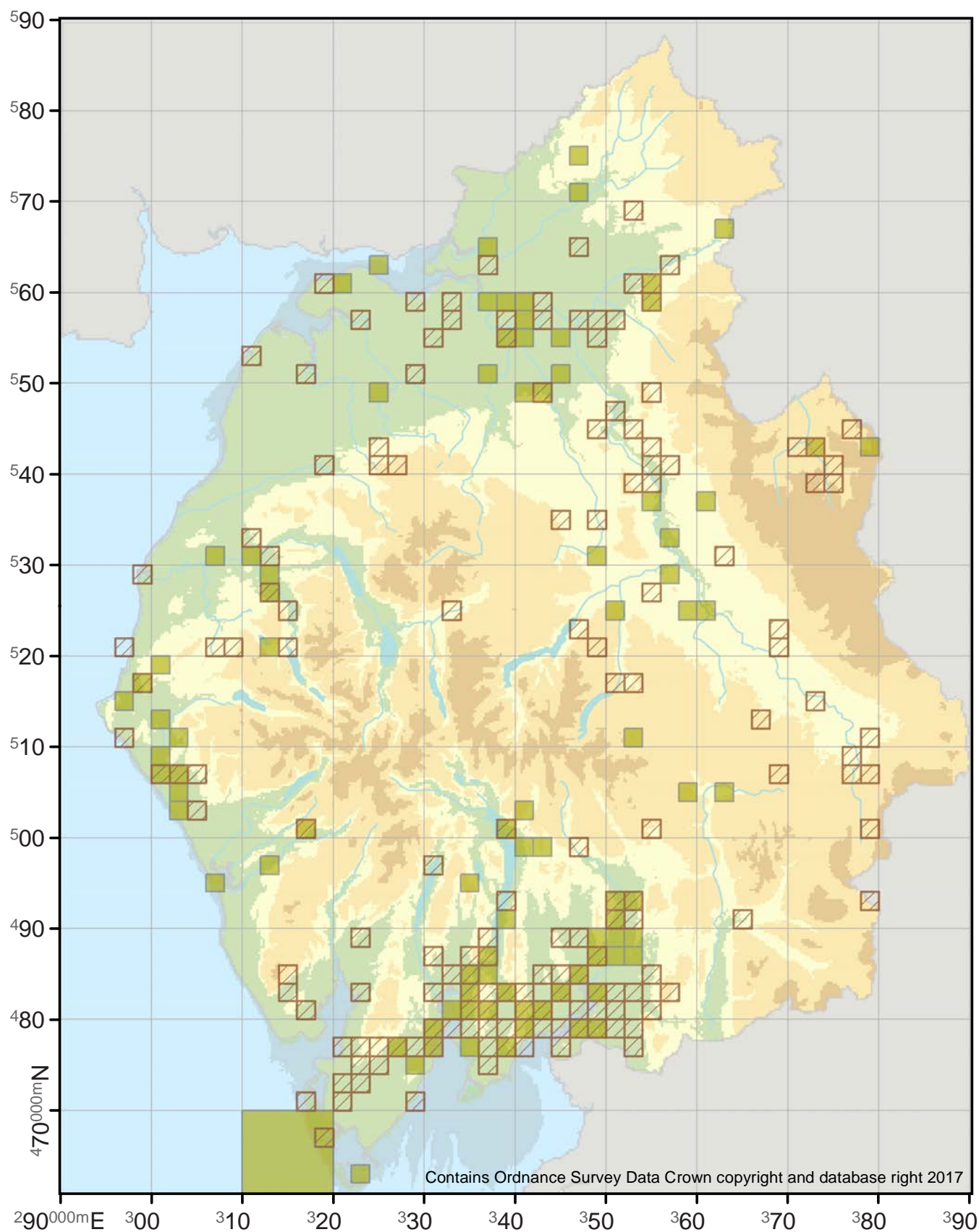


## House Mouse

-  Post 2000
-  Pre 2000



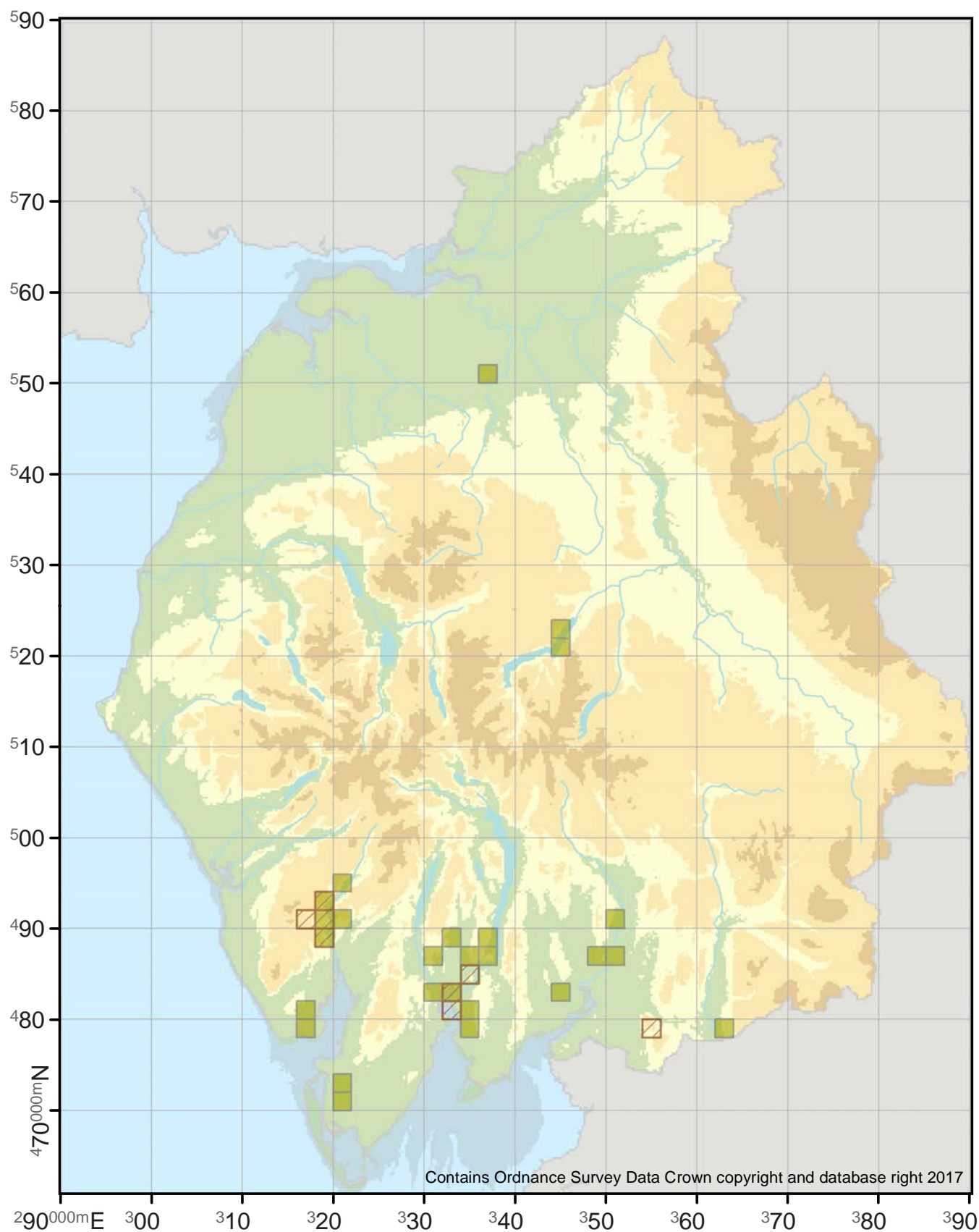




## Brown Rat

- Post 2000
- Pre 2000



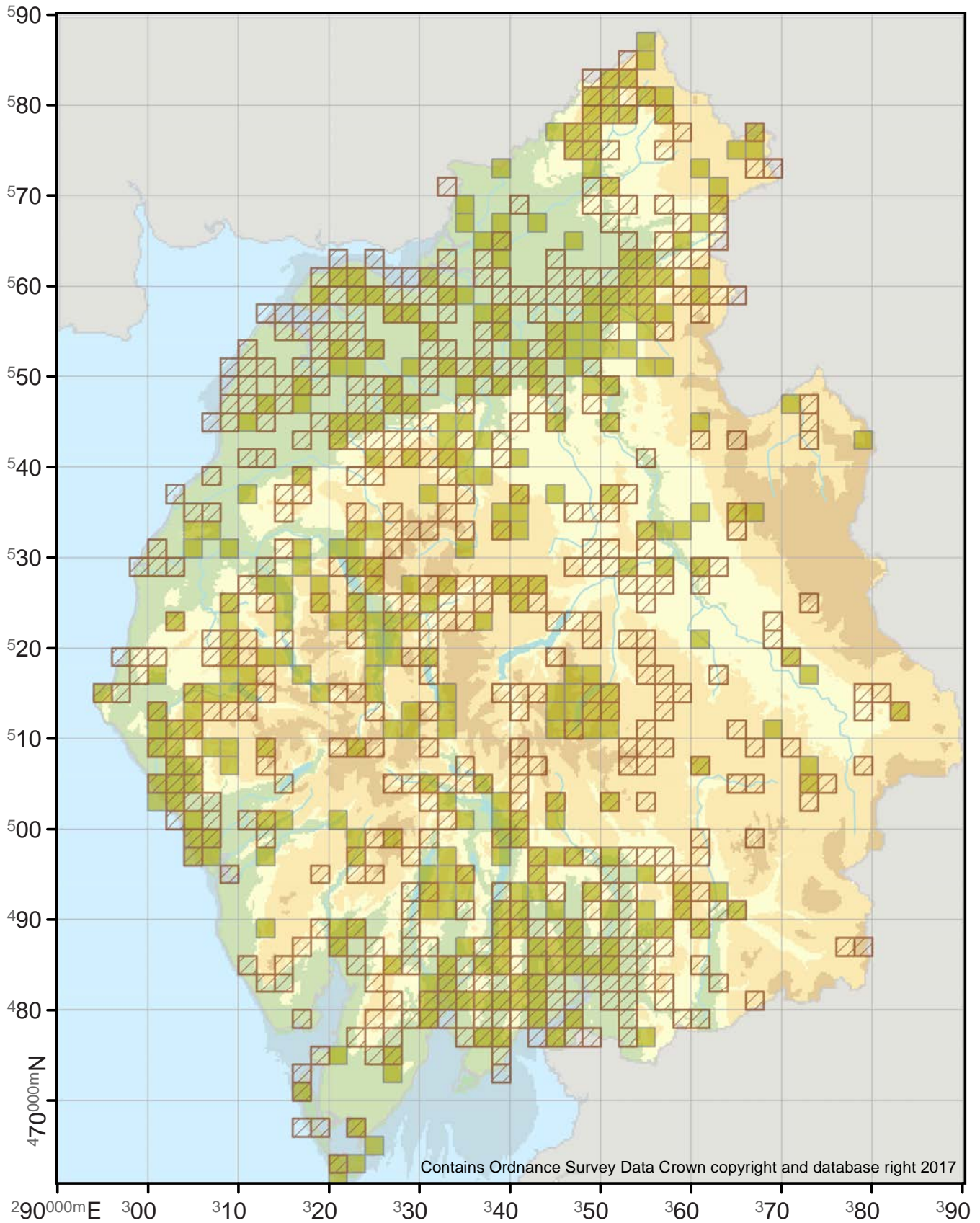


## Hazel Dormouse

- Post 2000
- Pre 2000



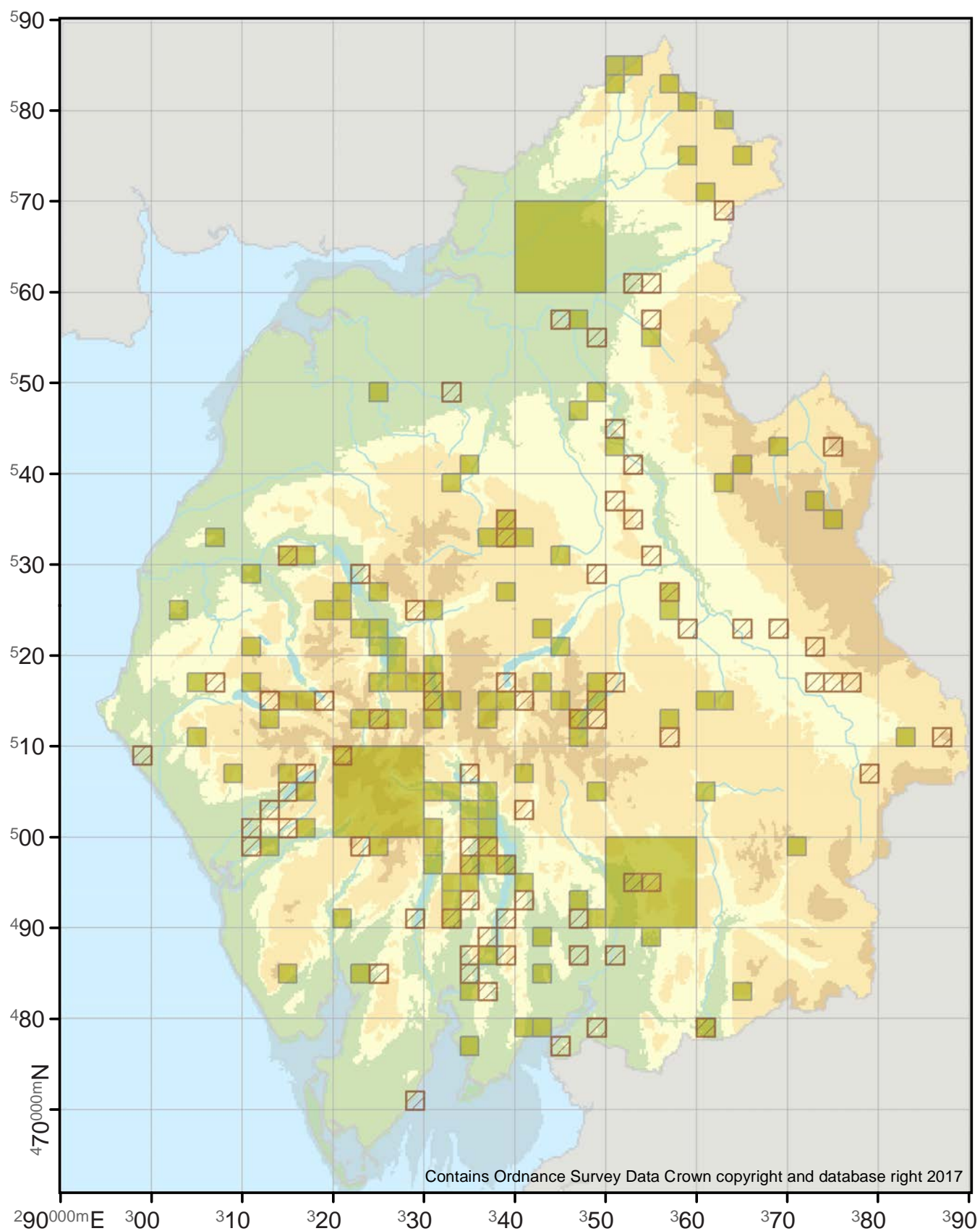




## Red Fox

-  Post 2000
-  Pre 2000



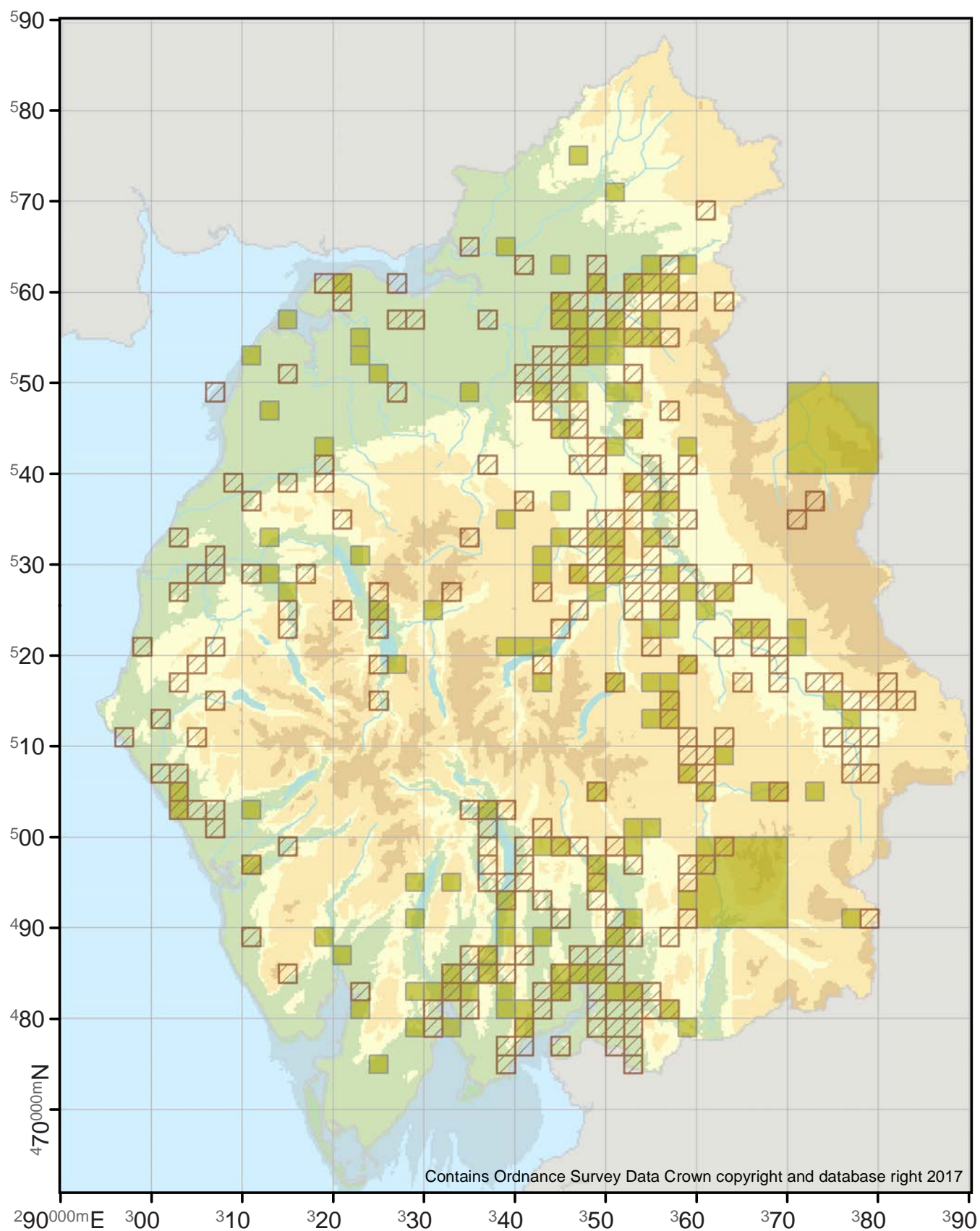


## Pine Marten

-  Post 2000
-  Pre 2000



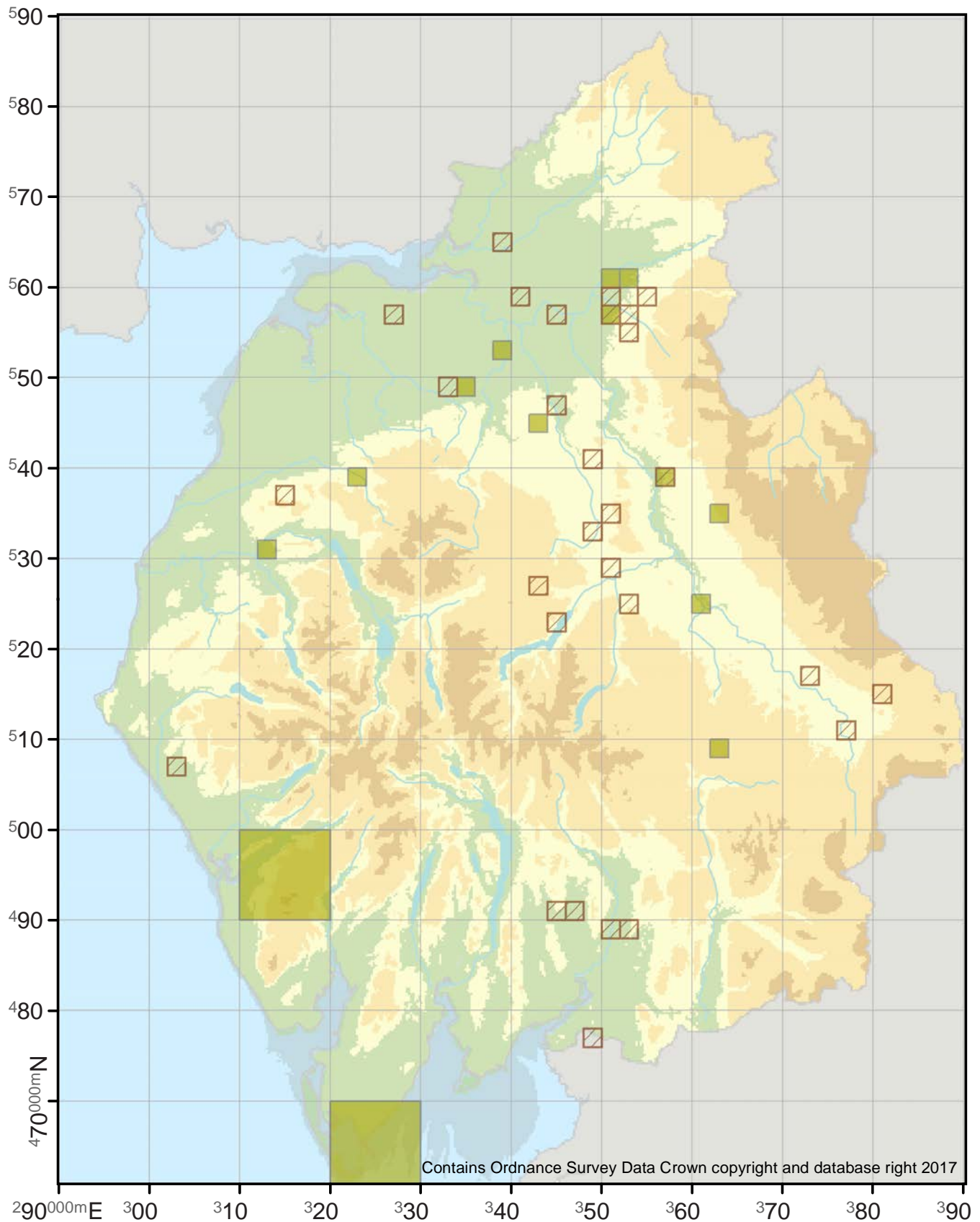




## Polecat

-  Post 2000
-  Pre 2000



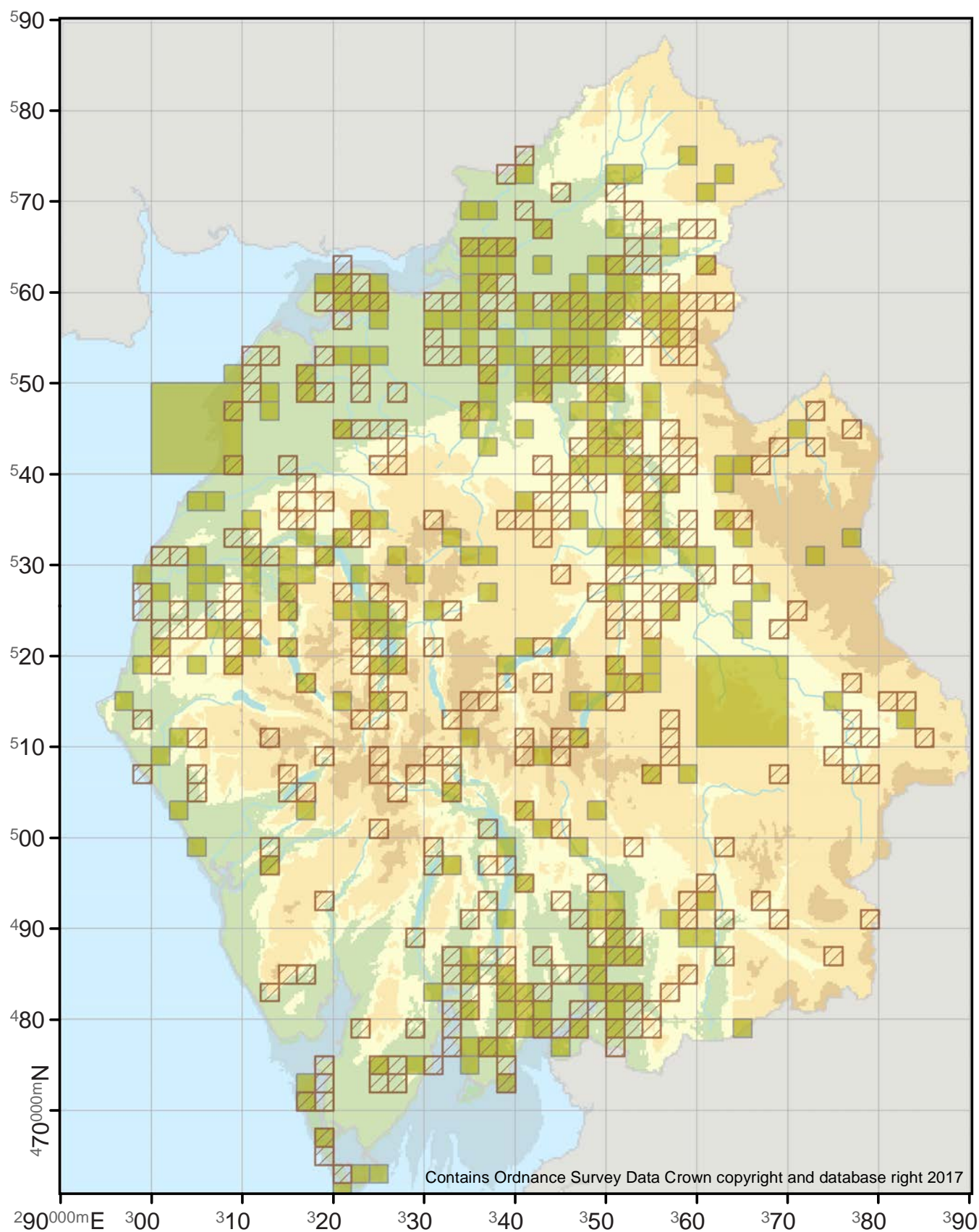


## Polecat-Ferret and Feral-Ferret

-  Post 2000
-  Pre 2000



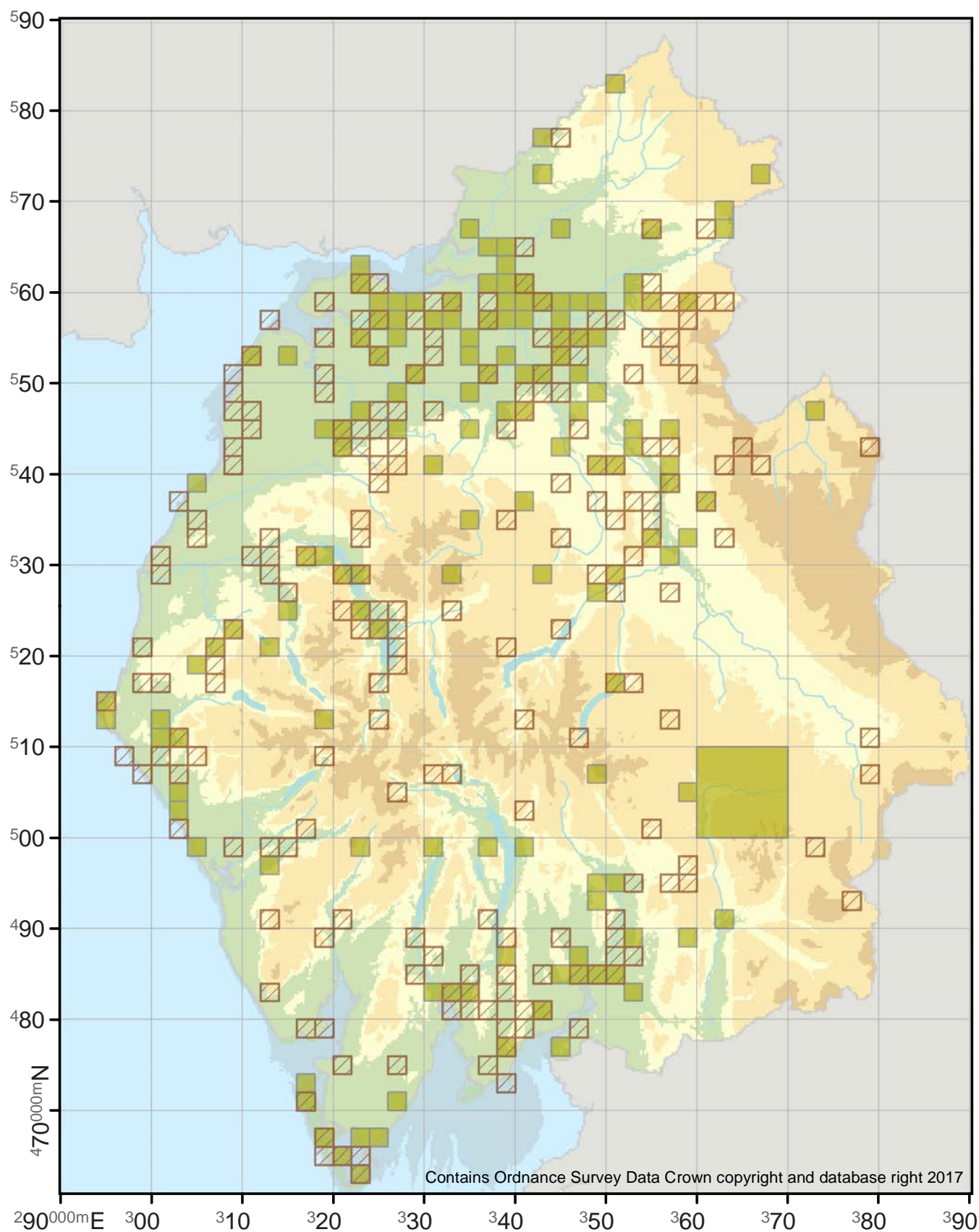




## Stoat

-  Post 2000
-  Pre 2000



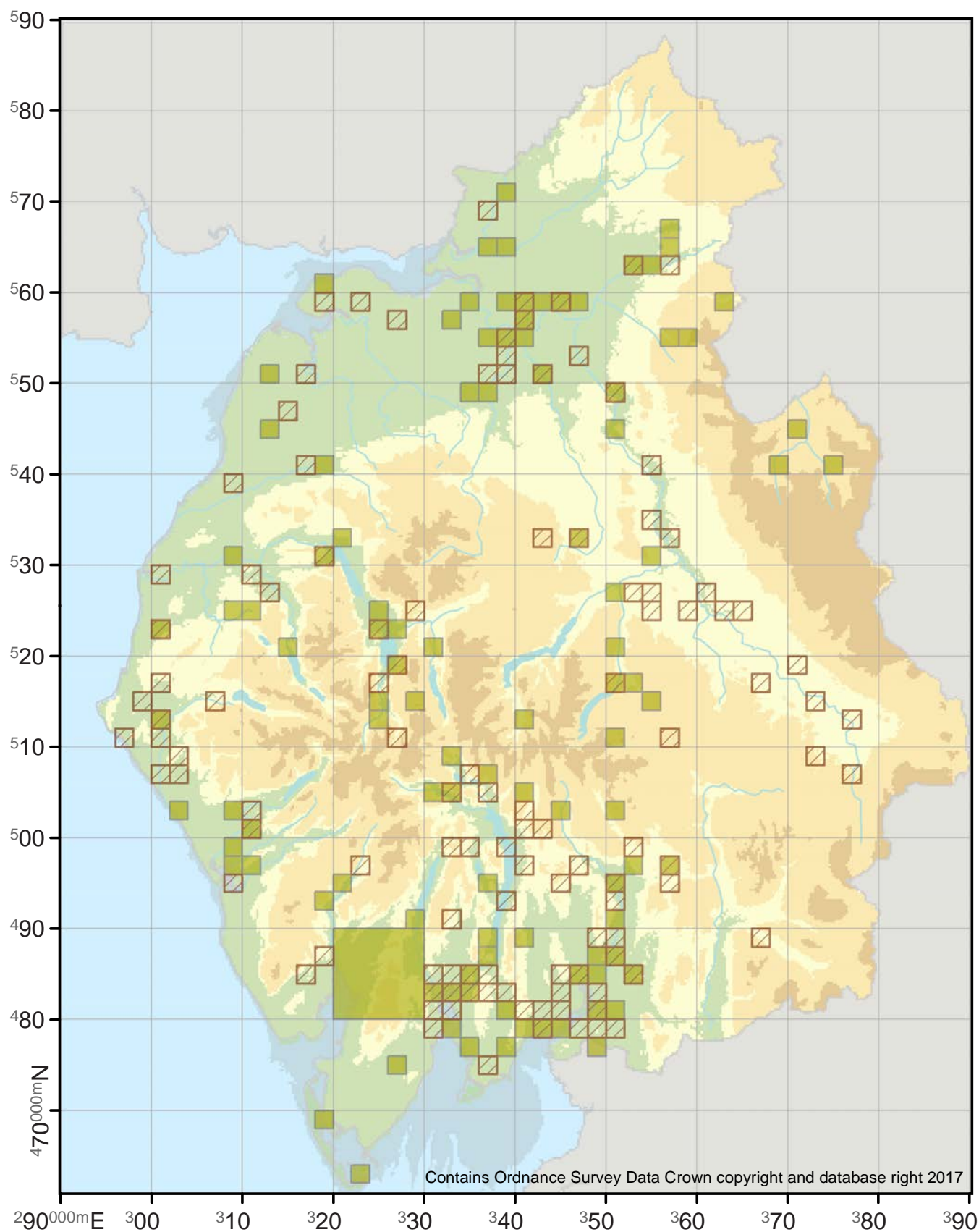


## Weasel

-  Post 2000
-  Pre 2000



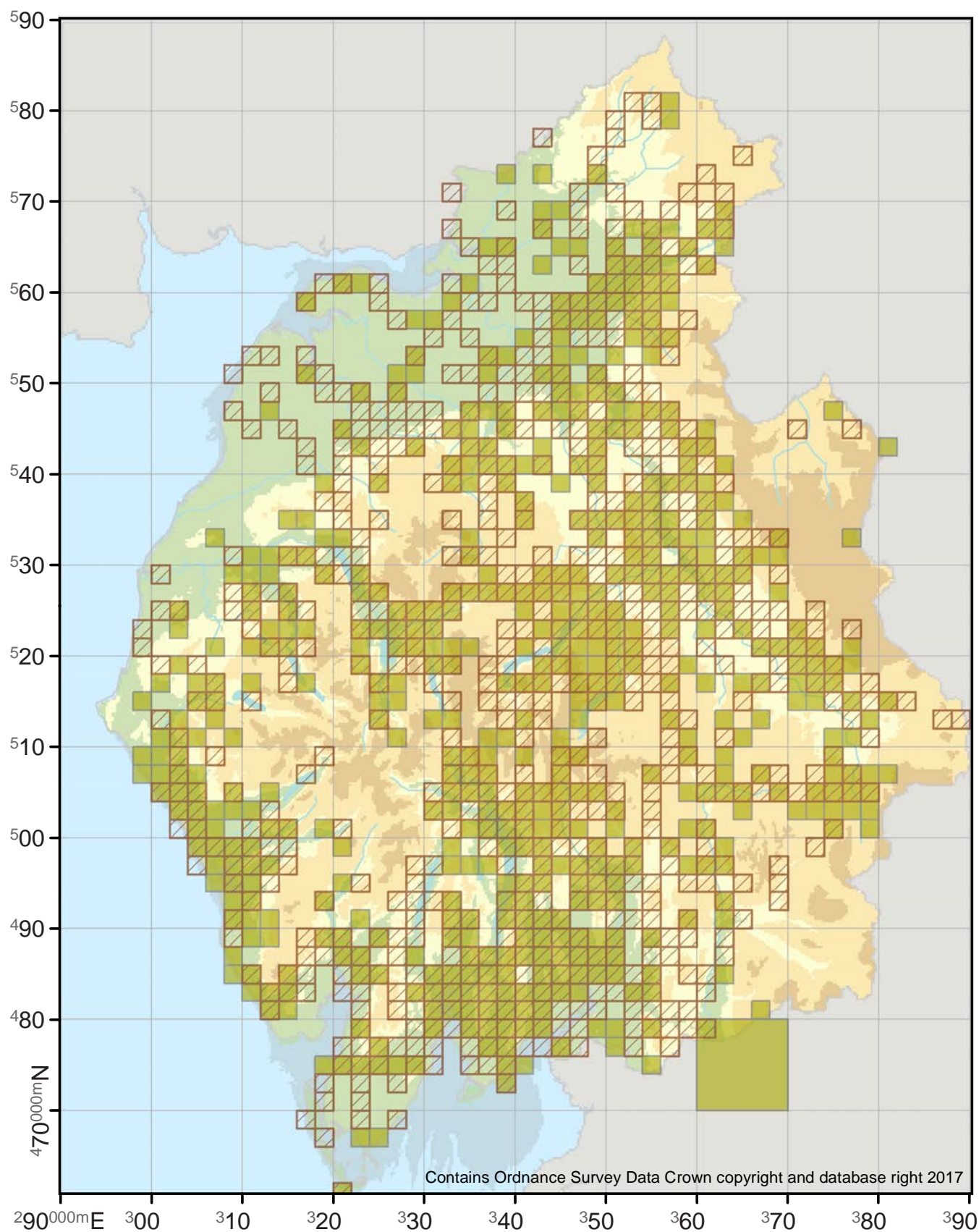




## American Mink

- Post 2000
- Pre 2000



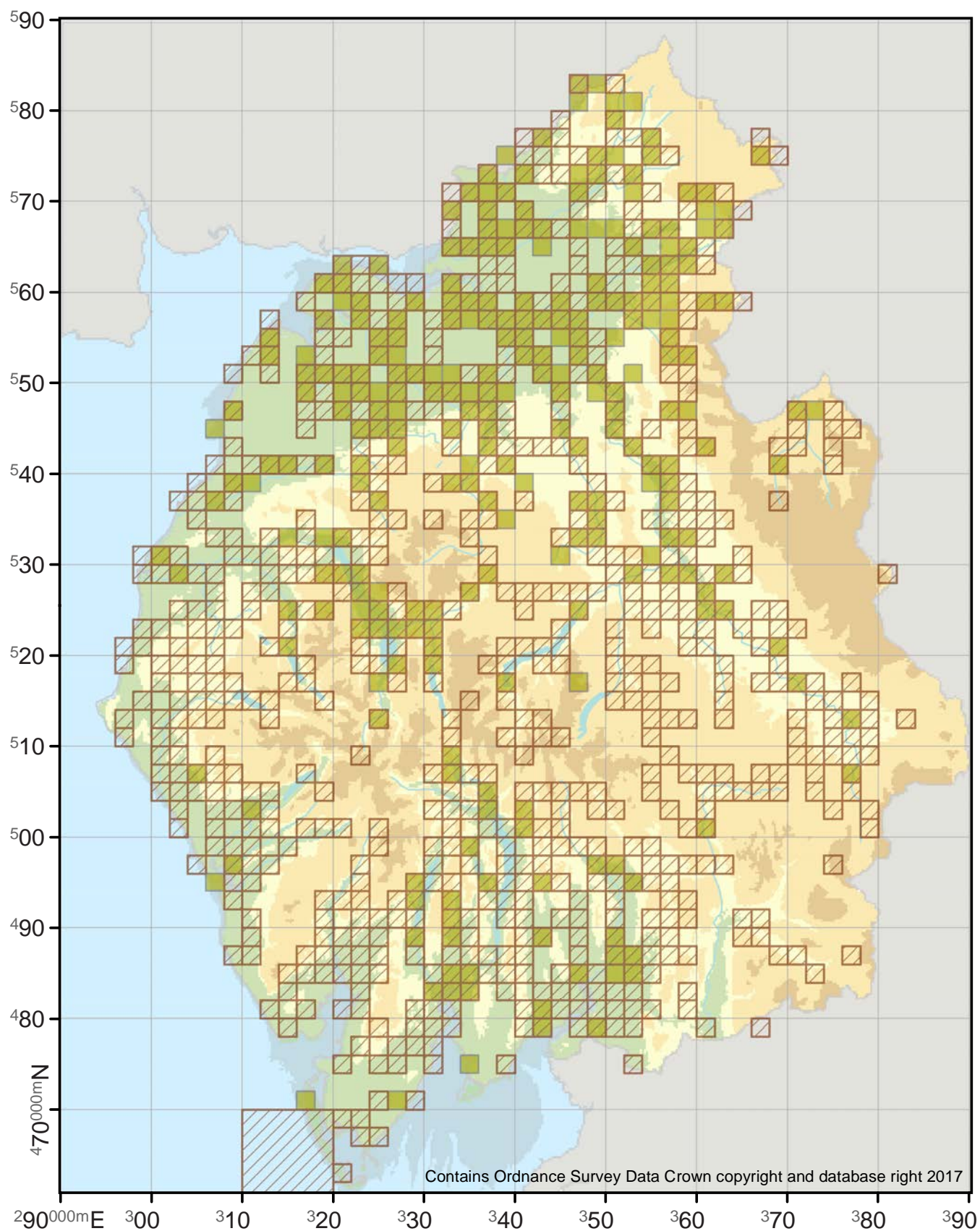


## Eurasian Badger

-  Post 2000
-  Pre 2000



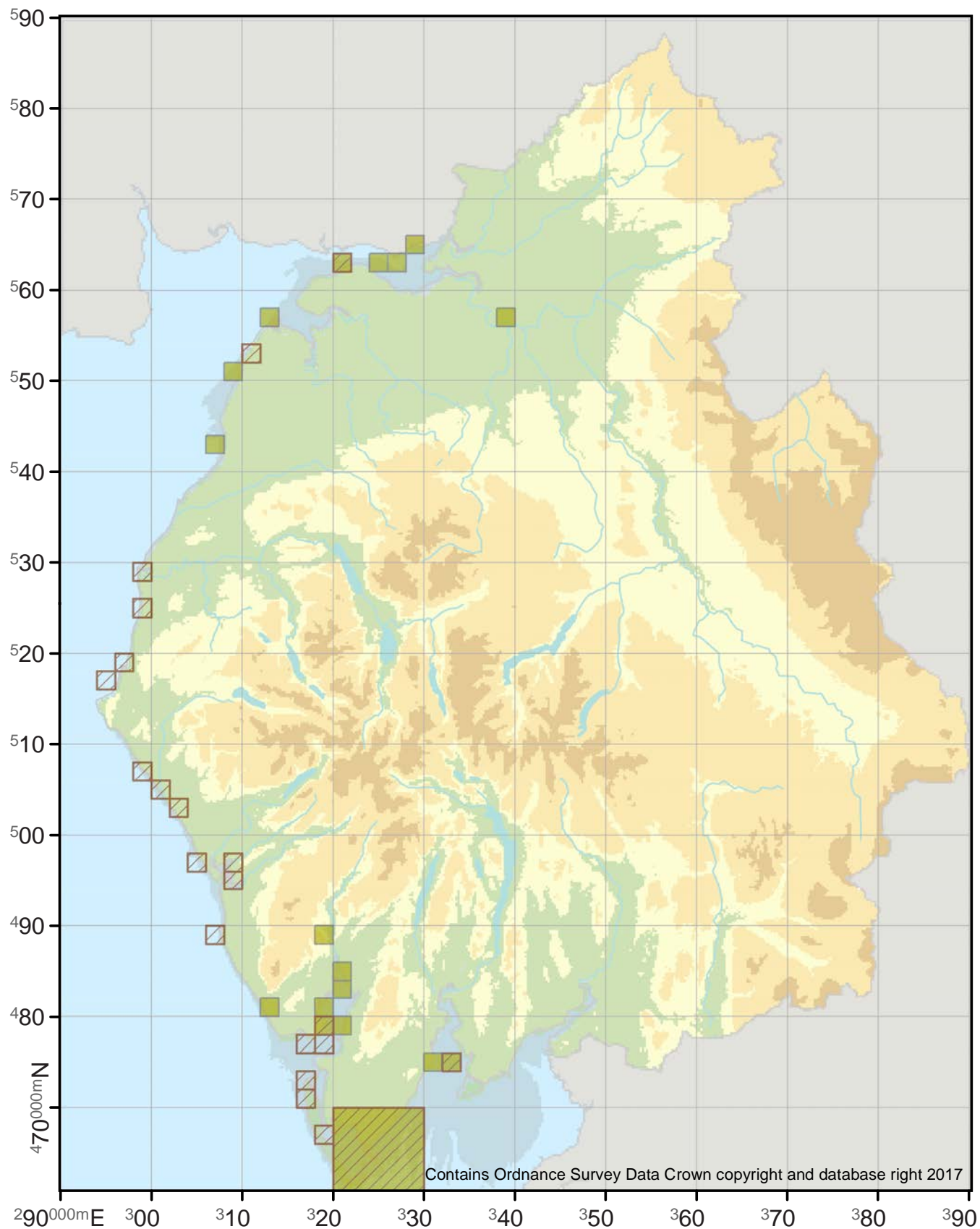




## European Otter

-  Post 2000
-  Pre 2000



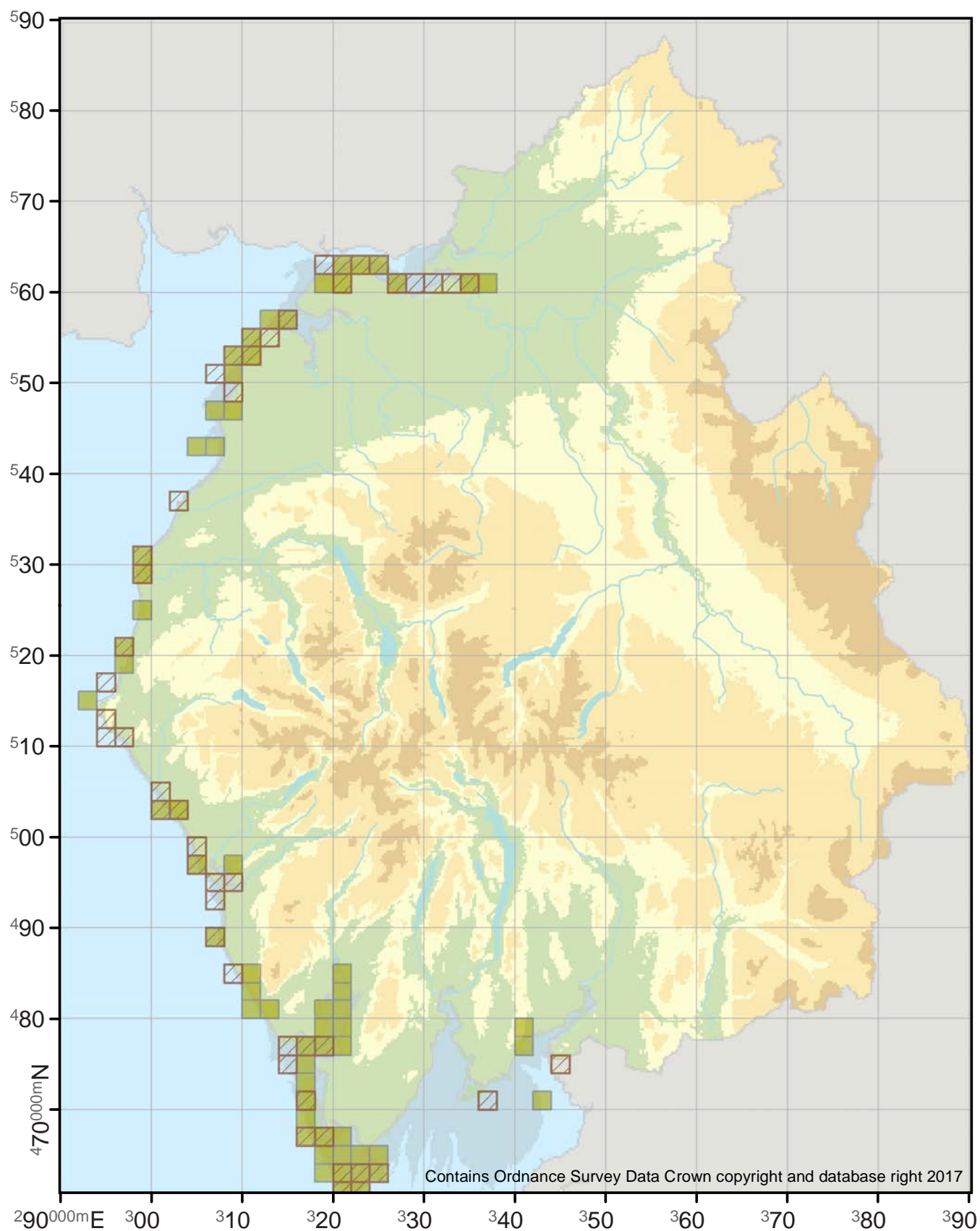


## Common Seal

- Post 2000
- Pre 2000



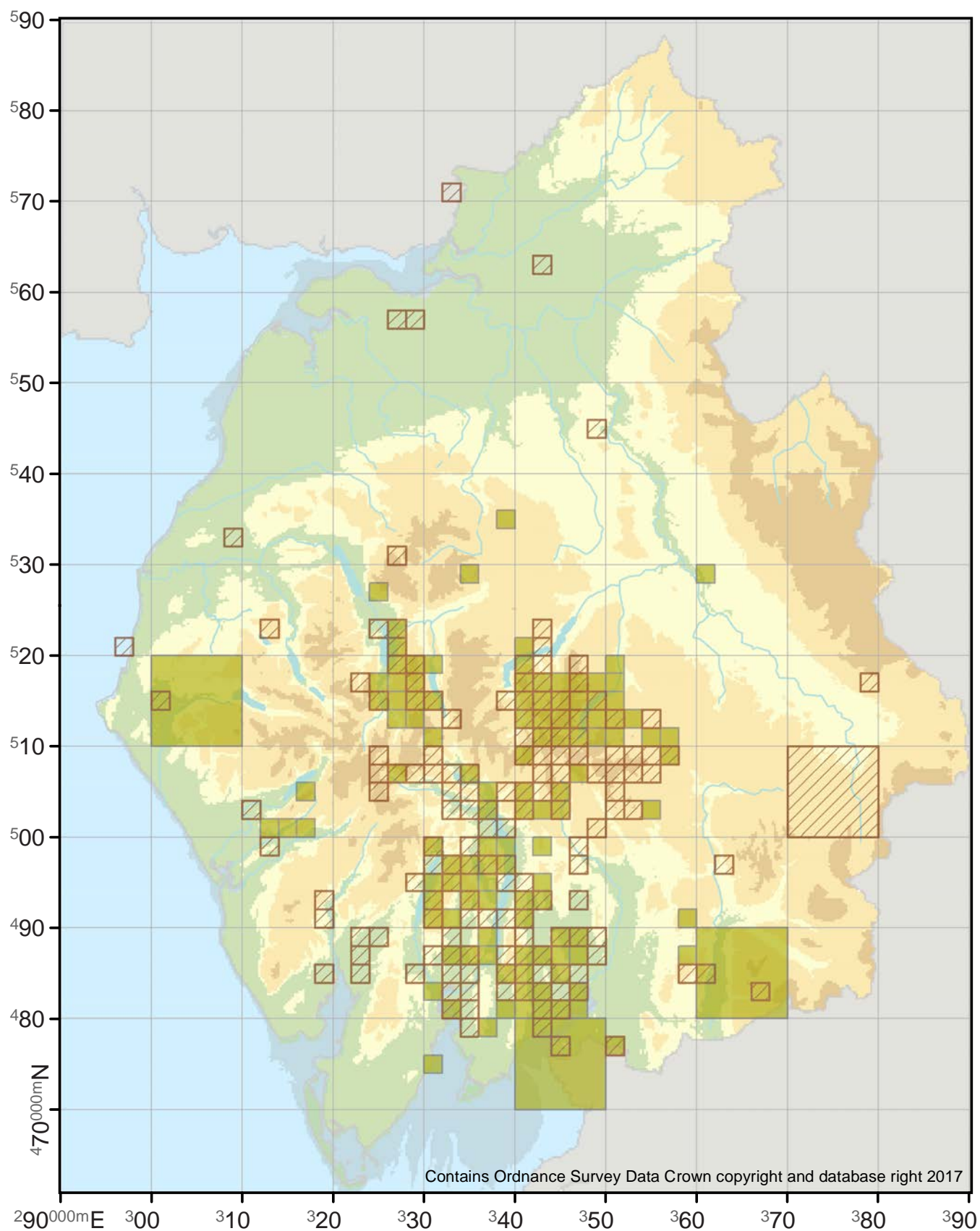




## Grey Seal

-  Post 2000
-  Pre 2000



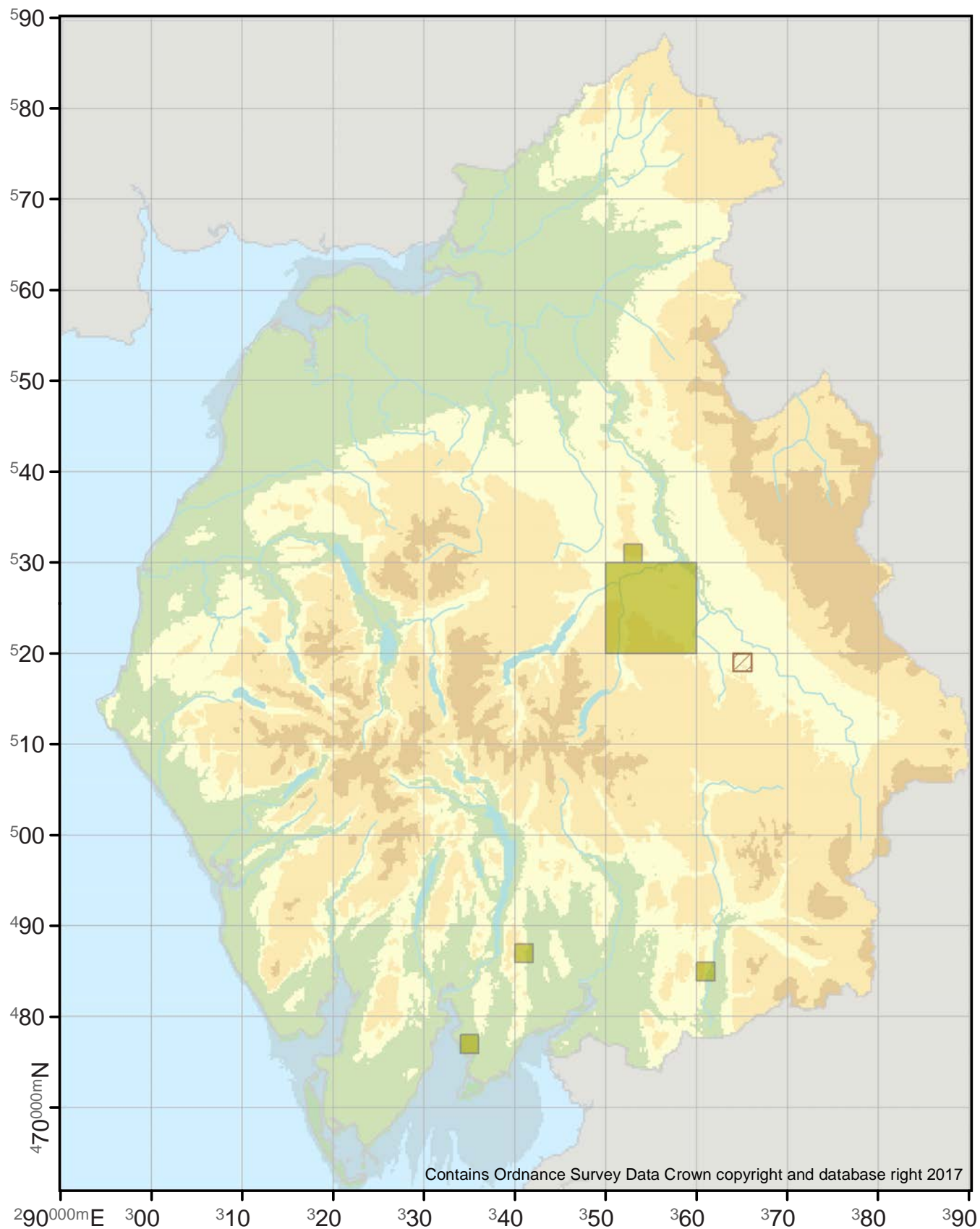


## Red Deer

-  **Post 2000**
-  **Pre 2000**



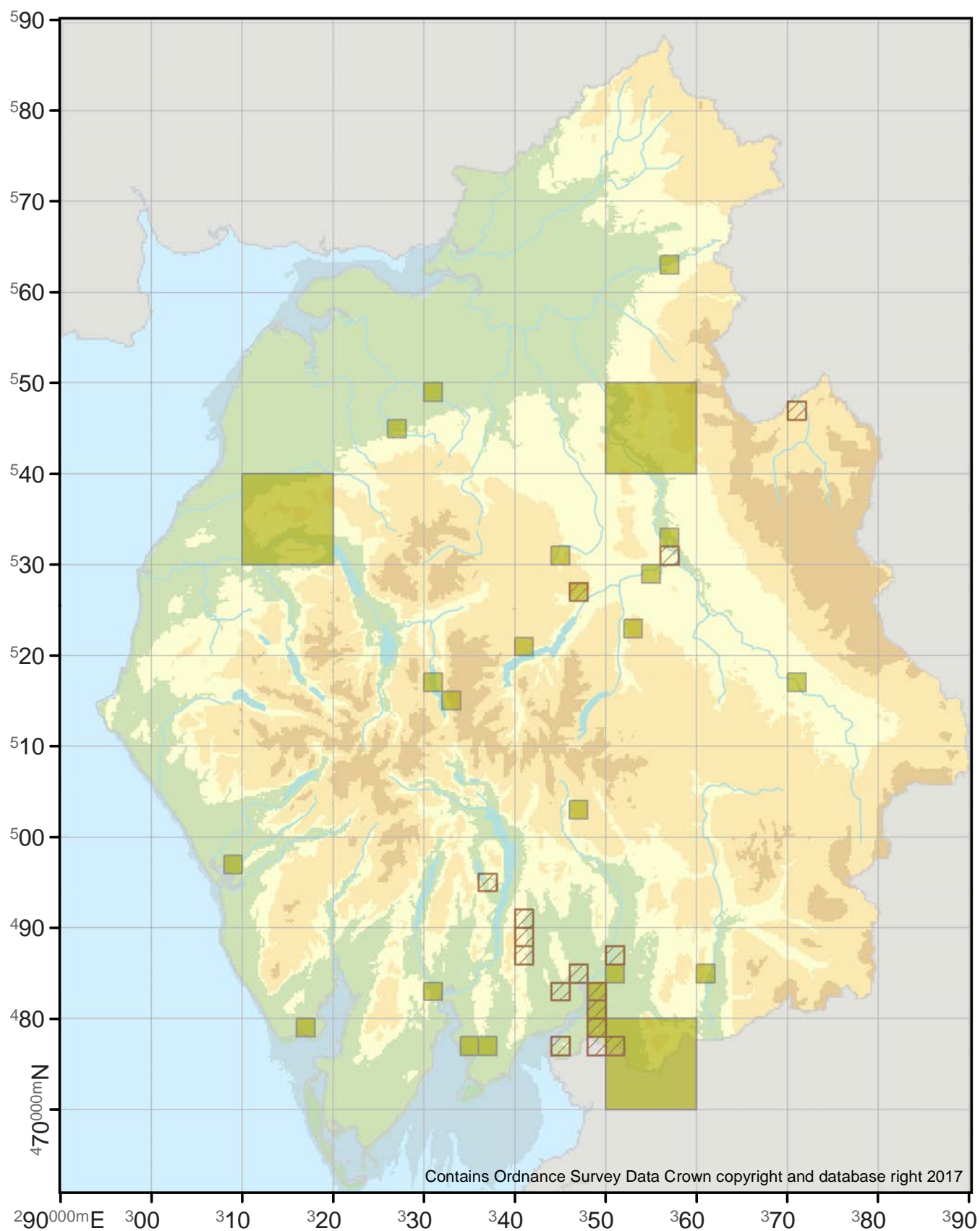




## Sika Deer

-  Post 2000
-  Pre 2000



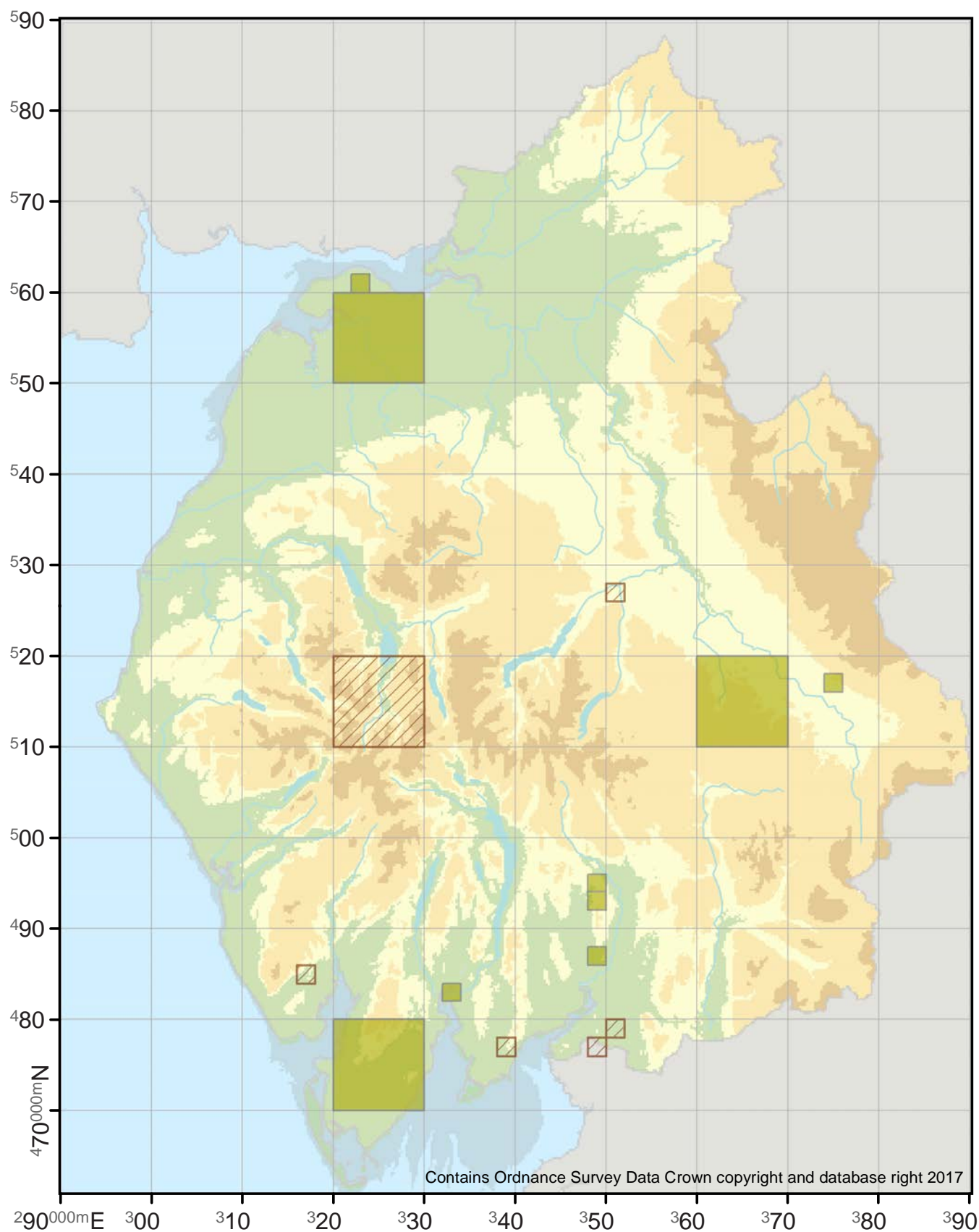


## Fallow Deer

-  **Post 2000**
-  **Pre 2000**



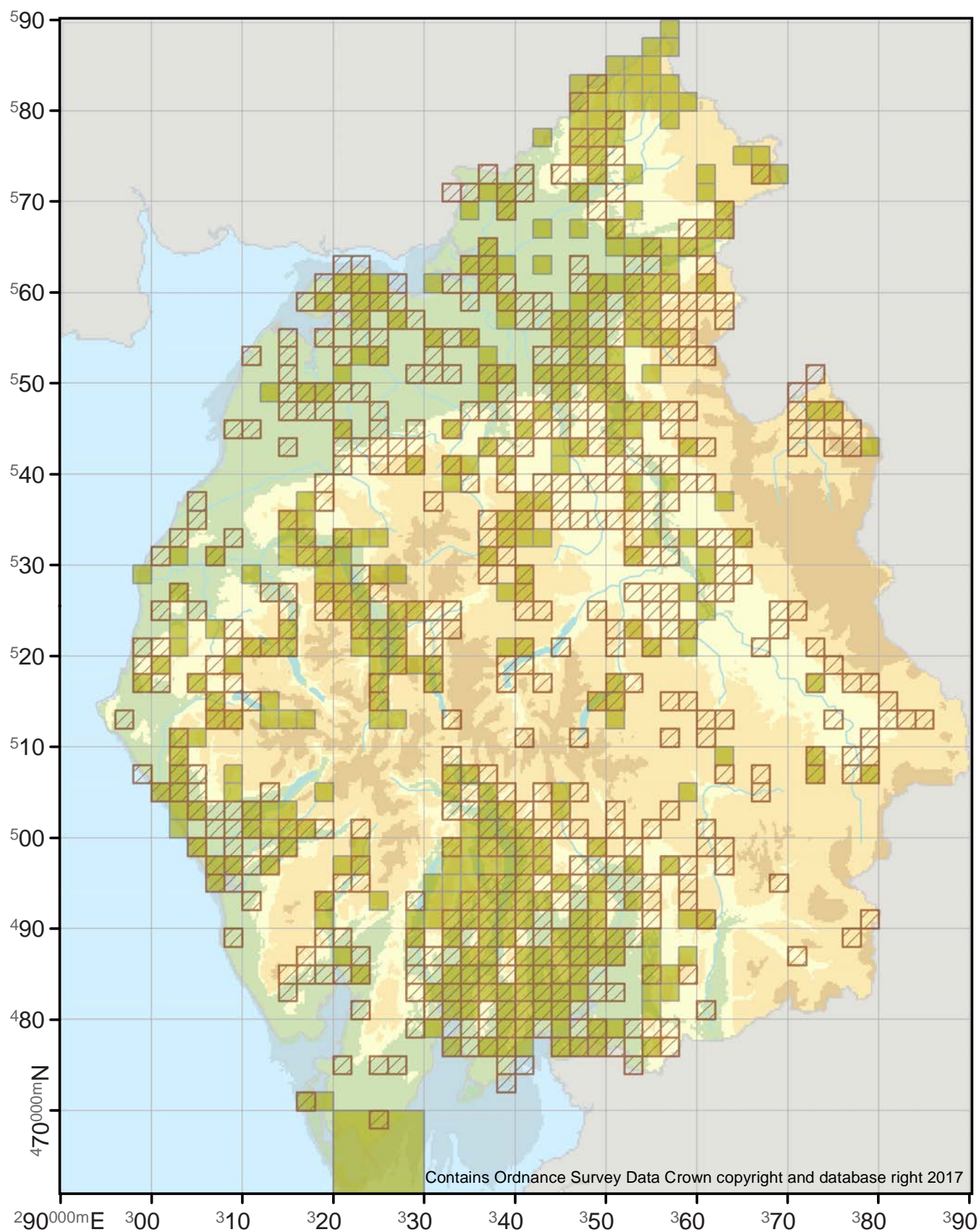




## Chinese Muntjac

-  Post 2000
-  Pre 2000





## Roe Deer

-  Post 2000
-  Pre 2000





## Appendix: Mammal species per 10km square

Species	NX90	NX91	NX92	NX93	NY00	NY01	NY02	NY03	NY04	NY05
West European Hedgehog		X	X	X	X	X	X	X	X	X
European Mole	X	X	X	X	X	X	X	X	X	
Eurasian Common Shrew		X			X	X	X	X	X	
Eurasian Pygmy Shrew					X	X	X		X	
Eurasian Water Shrew		X			X	X	X			
Whiskered Bat					X	X		X		
Brandt's Bat										
Natterer's Bat			X		X	X	X			
Daubenton's Bat			X		X	X	X	X		
Noctule Bat		X		X	X	X	X	X		
Pipistrelles		X	X	X	X	X	X	X	X	
Brown Long-eared Bat		X	X		X	X	X	X		
Western Barbastelle										
Lesser Noctule										
European Rabbit	X	X	X	X	X	X	X	X	X	X
Brown Hare	X	X	X		X	X	X	X	X	X
Mountain Hare										
Eurasian Red Squirrel	X	X	X	X	X	X	X	X	X	
Eastern Grey Squirrel	X	X	X		X	X	X	X	X	
Bank Vole		X			X	X	X	X		
Field Vole	X	X			X	X	X	X	X	
European Water Vole						X	X			
Harvest Mouse										
Wood Mouse		X			X	X	X	X	X	X
House Mouse					X	X	X	X		
Brown Rat		X	X		X	X	X	X		
Hazel Dormouse										
Red Fox		X	X		X	X	X	X	X	X
Pine Marten	X				X	X	X	X		
Polecat		X	X		X	X	X	X	X	
Polecat-Ferret and Feral-Ferret					X					
Stoat	X	X	X		X	X	X	X	X	X
Weasel	X	X	X		X	X	X	X	X	X
American Mink		X			X	X	X	X		
Eurasian Badger	X	X	X		X	X	X	X	X	X
European Otter		X	X	X	X	X	X	X	X	X
Common Seal	X	X	X		X				X	X
Grey Seal		X	X	X	X			X	X	X
Red Deer			X			X		X		
Sika Deer										
Fallow Deer										
Chinese Muntjac										
Roe Deer	X	X	X		X	X	X	X	X	
<b>Species Count</b>	<b>12</b>	<b>25</b>	<b>21</b>	<b>8</b>	<b>32</b>	<b>31</b>	<b>29</b>	<b>28</b>	<b>20</b>	<b>11</b>

Species	NY10	NY11	NY12	NY13	NY14	NY15	NY16	NY20	NY21	NY22
West European Hedgehog	X	X	X	X	X	X	X		X	X
European Mole	X	X	X	X	X	X	X	X	X	X
Eurasian Common Shrew	X	X	X		X	X	X	X	X	X
Eurasian Pygmy Shrew			X	X			X			X
Eurasian Water Shrew		X				X	X			X
Whiskered Bat	X			X		X				
Brandt's Bat										X
Natterer's Bat	X		X		X		X	X		X
Daubenton's Bat	X		X	X	X			X	X	X
Noctule Bat	X	X	X	X	X	X				X
Pipistrelles	X	X	X	X	X	X		X	X	X
Brown Long-eared Bat	X	X	X	X	X				X	X
Western Barbastelle										
Lesser Noctule										
European Rabbit	X	X	X	X	X	X	X	X	X	X
Brown Hare	X		X	X	X	X	X	X	X	X
Mountain Hare										
Eurasian Red Squirrel	X	X	X	X	X	X	X	X	X	X
Eastern Grey Squirrel	X	X	X	X	X	X	X	X	X	X
Bank Vole	X		X	X	X	X	X	X	X	X
Field Vole	X	X	X	X	X	X	X	X	X	X
European Water Vole			X	X		X				X
Harvest Mouse						X				
Wood Mouse	X	X	X	X	X	X	X	X	X	X
House Mouse			X			X	X			
Brown Rat	X		X	X	X	X	X			
Hazel Dormouse										
Red Fox	X	X	X	X	X	X	X	X	X	X
Pine Marten	X	X	X	X				X	X	X
Polecat	X		X	X	X	X	X		X	X
Polecat-Ferret and Feral-Ferret				X						
Stoat	X	X	X	X	X	X	X	X	X	X
Weasel	X	X	X	X	X	X		X	X	X
American Mink	X		X	X	X	X	X		X	X
Eurasian Badger	X	X	X	X	X	X	X	X	X	X
European Otter	X	X	X	X	X	X	X	X	X	X
Common Seal						X				
Grey Seal						X	X			
Red Deer	X		X					X	X	X
Sika Deer										
Fallow Deer				X						
Chinese Muntjac									X	
Roe Deer	X	X	X	X	X	X	X	X	X	X
Species Count	27	19	29	28	24	28	23	20	24	29



Species	NY23	NY24	NY25	NY26	NY30	NY31	NY32	NY33	NY34	NY35
West European Hedgehog	X	X	X	X	X	X	X	X	X	X
European Mole	X	X	X	X	X	X	X	X	X	X
Eurasian Common Shrew	X	X	X	X	X	X	X	X	X	X
Eurasian Pygmy Shrew	X	X	X	X	X	X	X	X	X	X
Eurasian Water Shrew			X	X		X	X	X	X	X
Whiskered Bat		X	X		X				X	X
Brandt's Bat								X		X
Natterer's Bat			X	X	X	X	X	X	X	X
Daubenton's Bat				X	X	X		X	X	X
Noctule Bat	X		X	X	X			X	X	X
Pipistrelles	X	X	X	X	X	X	X	X	X	X
Brown Long-eared Bat	X	X	X		X		X	X	X	X
Western Barbastelle										
Lesser Noctule										
European Rabbit	X	X	X	X	X	X	X	X	X	X
Brown Hare	X	X	X	X	X		X	X	X	X
Mountain Hare										
Eurasian Red Squirrel	X	X	X	X	X	X	X	X	X	X
Eastern Grey Squirrel	X	X	X	X	X	X	X	X	X	X
Bank Vole		X	X	X	X	X	X	X	X	X
Field Vole		X	X	X	X	X	X	X	X	X
European Water Vole					X	X			X	X
Harvest Mouse										
Wood Mouse		X	X	X	X	X	X		X	X
House Mouse		X	X	X				X	X	X
Brown Rat		X	X	X	X		X			X
Hazel Dormouse										X
Red Fox	X	X	X	X	X	X	X	X	X	X
Pine Marten		X			X	X	X	X	X	
Polecat	X	X	X	X	X		X	X	X	X
Polecat-Ferret and Feral-Ferret	X		X						X	X
Stoat	X	X	X	X	X	X	X	X	X	X
Weasel	X	X	X	X	X		X	X	X	X
American Mink	X		X		X		X		X	X
Eurasian Badger	X	X	X	X	X	X	X	X	X	X
European Otter	X	X	X	X	X	X	X	X	X	X
Common Seal				X						X
Grey Seal				X						
Red Deer	X		X		X	X	X	X		
Sika Deer										
Fallow Deer		X				X			X	
Chinese Muntjac			X	X						
Roe Deer	X	X	X	X	X	X	X	X	X	X
<b>Species Count</b>	<b>21</b>	<b>25</b>	<b>30</b>	<b>28</b>	<b>29</b>	<b>23</b>	<b>26</b>	<b>27</b>	<b>31</b>	<b>33</b>

Species	NY36	NY37	NY40	NY41	NY42	NY43	NY44	NY45	NY46	NY47
West European Hedgehog	X	X	X	X	X	X	X	X	X	X
European Mole	X	X	X	X	X	X	X	X	X	X
Eurasian Common Shrew	X		X	X	X	X	X	X		X
Eurasian Pygmy Shrew	X			X	X		X	X		
Eurasian Water Shrew	X			X				X		
Whiskered Bat	X					X	X	X		
Brandt's Bat										X
Natterer's Bat	X	X	X	X	X	X		X	X	X
Daubenton's Bat	X				X	X	X	X	X	X
Noctule Bat	X	X			X	X	X	X	X	
Pipistrelles	X	X	X	X	X	X	X	X	X	X
Brown Long-eared Bat	X	X	X		X	X	X	X	X	X
Western Barbastelle								X		
Lesser Noctule										
European Rabbit	X	X	X	X	X	X	X	X	X	X
Brown Hare	X	X	X	X	X	X	X	X	X	X
Mountain Hare										X
Eurasian Red Squirrel	X	X	X	X	X	X	X	X	X	X
Eastern Grey Squirrel	X	X	X	X	X	X	X	X	X	X
Bank Vole	X		X	X	X		X	X	X	
Field Vole	X		X	X		X	X	X	X	X
European Water Vole								X		
Harvest Mouse	X							X	X	
Wood Mouse	X		X	X	X		X	X	X	X
House Mouse	X							X		
Brown Rat	X		X		X	X	X	X	X	X
Hazel Dormouse					X					
Red Fox	X	X	X	X	X	X	X	X	X	X
Pine Marten			X	X	X	X	X	X	X	
Polecat	X		X	X	X	X	X	X	X	X
Polecat Ferret and Feral Ferret	X				X	X	X	X		
Stoat	X	X	X	X	X	X	X	X	X	X
Weasel	X		X	X	X	X	X	X	X	X
American Mink	X	X	X	X		X		X		
Eurasian Badger	X	X	X	X	X	X	X	X	X	X
European Otter	X	X	X	X	X	X	X	X	X	X
Common Seal										
Grey Seal	X									
Red Deer		X	X	X	X		X		X	
Sika Deer										
Fallow Deer			X		X	X				
Chinese Muntjac										
Roe Deer	X	X	X	X	X	X	X	X	X	X
Species Count	31	17	25	24	28	26	27	33	25	23



Species	NY48	NY50	NY51	NY52	NY53	NY54	NY55	NY56	NY57	NY58
West European Hedgehog		X	X	X	X	X	X	X	X	X
European Mole	X	X	X	X	X	X	X	X	X	X
Eurasian Common Shrew		X	X	X	X	X	X	X	X	X
Eurasian Pygmy Shrew	X		X	X	X	X	X	X		
Eurasian Water Shrew			X		X	X	X	X	X	
Whiskered Bat		X		X	X	X	X	X		
Brandt's Bat			X	X	X					
Natterer's Bat		X		X	X	X	X	X	X	X
Daubenton's Bat		X	X	X	X	X	X	X	X	
Noctule Bat		X	X	X	X	X	X	X	X	
Pipistrelles		X	X	X	X	X	X	X	X	X
Brown Long-eared Bat		X	X	X	X	X	X	X	X	
Western Barbastelle										
Lesser Noctule							X			
European Rabbit	X	X	X	X	X	X	X	X	X	X
Brown Hare	X	X	X	X	X	X	X	X	X	X
Mountain Hare									X	X
Eurasian Red Squirrel	X	X	X	X	X	X	X	X	X	X
Eastern Grey Squirrel	X	X	X	X	X	X	X	X	X	X
Bank Vole		X	X	X		X	X	X		
Field Vole		X	X	X	X	X	X	X	X	X
European Water Vole		X	X	X	X	X	X	X		
Harvest Mouse					X					
Wood Mouse	X	X	X	X	X	X	X	X	X	X
House Mouse		X		X	X		X	X		
Brown Rat		X	X	X	X	X	X	X		
Hazel Dormouse										
Red Fox	X	X	X	X	X	X	X	X	X	X
Pine Marten			X	X	X	X	X	X	X	X
Polecat		X	X	X	X	X	X	X	X	
Polecat-Ferret and Feral-Ferret				X	X		X	X		
Stoat		X	X	X	X	X	X	X	X	
Weasel		X	X	X	X	X	X	X		X
American Mink		X	X	X	X	X	X	X		
Eurasian Badger		X	X	X	X	X	X	X	X	X
European Otter	X	X	X	X	X	X	X	X	X	X
Common Seal										
Grey Seal										
Red Deer		X	X							
Sika Deer				X	X					
Fallow Deer				X	X	X		X		
Chinese Muntjac				X						
Roe Deer	X	X	X	X	X	X	X	X	X	X
Species Count	10	28	29	34	34	30	32	32	23	18

Species	NY60	NY61	NY62	NY63	NY64	NY65	NY66	NY67	NY68	NY70
West European Hedgehog	x	x	x	x	x	x	x			x
European Mole	x	x	x	x	x	x	x	x		x
Eurasian Common Shrew	x	x		x		x	x	x		x
Eurasian Pygmy Shrew					x					
Eurasian Water Shrew			x		x		x			
Whiskered Bat			x							x
Brandt's Bat			x							x
Natterer's Bat		x	x				x			x
Daubenton's Bat	x	x	x					x		x
Noctule Bat		x	x		x					x
Pipistrelles	x	x	x	x	x	x	x	x		x
Brown Long-eared Bat	x	x	x	x						x
Western Barbastelle										
Lesser Noctule										
European Rabbit	x	x	x	x	x	x	x	x	x	x
Brown Hare	x	x	x	x	x	x	x	x		x
Mountain Hare			x							
Eurasian Red Squirrel	x	x	x	x	x	x	x	x		x
Eastern Grey Squirrel	x	x	x	x	x	x	x	x		x
Bank Vole		x				x				x
Field Vole	x	x	x	x	x			x		x
European Water Vole	x		x	x	x			x		x
Harvest Mouse			x							
Wood Mouse			x	x	x	x	x	x		
House Mouse										x
Brown Rat	x	x	x	x			x			x
Hazel Dormouse										
Red Fox	x	x	x	x	x	x	x	x		x
Pine Marten	x	x	x	x	x		x	x		x
Polecat	x	x	x			x	x			x
Polecat Ferret and Feral Ferret	x		x	x						
Stoat	x	x	x	x	x	x	x	x		x
Weasel	x			x	x	x	x	x		x
American Mink		x	x		x	x				x
Eurasian Badger	x	x	x	x	x		x	x		x
European Otter	x	x	x	x	x	x	x	x		x
Common Seal										
Grey Seal										
Red Deer			x							x
Sika Deer		x								
Fallow Deer										
Chinese Muntjac		x								
Roe Deer	x	x	x	x	x	x	x	x		x
Species Count	22	25	30	21	21	17	20	18	1	29

Species	NY71	NY72	NY73	NY74	NY75	NY80	NY81	NY82	NY83	NY84
West European Hedgehog	X	X		X		X	X			
European Mole	X	X	X	X	X	X	X	X	X	
Eurasian Common Shrew		X	X	X						
Eurasian Pygmy Shrew			X	X						
Eurasian Water Shrew			X	X						
Whiskered Bat	X	X		X						
Brandt's Bat	X	X					X			
Natterer's Bat	X	X		X			X			
Daubenton's Bat	X	X	X	X			X			
Noctule Bat	X	X					X			
Pipistrelles	X	X		X			X			
Brown Long-eared Bat	X	X		X			X			
Western Barbastelle										
Lesser Noctule	X									
European Rabbit	X	X	X	X			X	X	X	X
Brown Hare	X	X	X	X		X	X			
Mountain Hare										
Eurasian Red Squirrel	X	X	X	X	X		X			
Eastern Grey Squirrel	X	X		X			X			
Bank Vole			X	X						
Field Vole	X	X	X	X			X	X		
European Water Vole	X		X	X		X	X			
Harvest Mouse										
Wood Mouse			X							
House Mouse										
Brown Rat	X		X	X						
Hazel Dormouse										
Red Fox	X	X		X			X			
Pine Marten	X	X	X	X			X			
Polecat	X	X	X	X			X			
Polecat-Ferret and Feral-Ferret	X						X			
Stoat	X	X	X	X			X			
Weasel	X			X						
American Mink	X			X						
Eurasian Badger	X	X	X	X		X	X			X
European Otter	X	X		X			X	X		
Common Seal										
Grey Seal										
Red Deer	X									
Sika Deer										
Fallow Deer	X			X						
Chinese Muntjac	X									
Roe Deer	X	X		X	X		X			
<b>Species Count</b>	<b>30</b>	<b>22</b>	<b>17</b>	<b>28</b>	<b>3</b>	<b>5</b>	<b>22</b>	<b>4</b>	<b>2</b>	<b>2</b>



Species	SD08	SD09	SD16	SD17	SD18	SD19	SD26	SD27	SD28	SD29
West European Hedgehog		X	X	X	X	X	X	X	X	X
European Mole	X	X	X	X	X	X	X	X	X	X
Eurasian Common Shrew		X			X	X	X	X	X	X
Eurasian Pygmy Shrew		X	X	X	X	X	X	X		
Eurasian Water Shrew		X			X	X		X		X
Whiskered Bat			X		X	X			X	X
Brandt's Bat					X				X	X
Natterer's Bat		X		X	X	X			X	X
Daubenton's Bat		X	X		X	X		X	X	X
Noctule Bat		X		X	X	X		X	X	X
Pipistrelles		X	X	X	X	X	X	X	X	X
Brown Long-eared Bat					X	X	X	X	X	X
Western Barbastelle										
Lesser Noctule										
European Rabbit		X	X	X	X	X	X	X	X	X
Brown Hare	X	X	X	X	X	X	X	X	X	X
Mountain Hare										X
Eurasian Red Squirrel		X		X	X	X	X	X	X	X
Eastern Grey Squirrel		X	X	X	X	X	X	X	X	X
Bank Vole		X		X	X	X		X		X
Field Vole	X	X	X		X	X	X	X	X	X
European Water Vole		X					X			
Harvest Mouse					X					
Wood Mouse		X		X	X	X	X	X	X	X
House Mouse		X			X		X			
Brown Rat		X	X	X	X	X	X	X	X	
Hazel Dormouse				X	X	X		X		X
Red Fox		X	X	X	X	X	X	X	X	X
Pine Marten					X	X		X	X	X
Polecat					X	X		X	X	X
Polecat-Ferret and Feral-Ferret						X	X			
Stoat		X	X	X	X	X	X	X	X	
Weasel		X	X	X	X	X	X	X	X	X
American Mink		X	X		X	X	X	X	X	X
Eurasian Badger	X	X	X	X	X	X	X	X	X	X
European Otter	X	X	X	X	X	X	X	X	X	X
Common Seal	X	X	X	X	X		X	X	X	
Grey Seal	X	X	X	X	X		X	X	X	
Red Deer					X	X			X	X
Sika Deer										
Fallow Deer		X		X						
Chinese Muntjac					X			X		
Roe Deer	X	X		X	X	X	X	X	X	X
Species Count	8	29	19	23	36	31	25	30	29	29

Species	SD37	SD38	SD39	SD46	SD47	SD48	SD49	SD57	SD58	SD59
West European Hedgehog	X	X	X		X	X	X	X	X	X
European Mole	X	X	X		X	X	X	X	X	X
Eurasian Common Shrew	X	X	X		X	X	X	X	X	X
Eurasian Pygmy Shrew	X	X	X		X	X	X			X
Eurasian Water Shrew	X	X	X		X	X			X	X
Whiskered Bat	X	X	X		X	X	X	X	X	X
Brandt's Bat		X	X		X		X	X	X	X
Natterer's Bat		X	X		X	X	X		X	X
Daubenton's Bat	X	X	X		X	X	X	X	X	X
Noctule Bat	X	X	X		X	X	X	X	X	X
Pipistrelles	X	X	X		X	X	X	X	X	X
Brown Long-eared Bat	X	X	X		X	X	X	X	X	X
Western Barbastelle			X							
Lesser Noctule										
European Rabbit	X	X	X		X	X	X	X	X	X
Brown Hare	X	X	X		X	X	X	X	X	X
Mountain Hare										
Eurasian Red Squirrel	X	X	X		X	X	X	X	X	X
Eastern Grey Squirrel	X	X	X		X	X	X	X	X	X
Bank Vole	X	X	X		X	X	X		X	X
Field Vole	X	X	X		X	X	X	X	X	X
European Water Vole	X	X	X			X	X			X
Harvest Mouse	X	X				X				
Wood Mouse	X	X	X	X	X	X	X	X	X	X
House Mouse	X	X				X				X
Brown Rat	X	X	X		X	X	X	X	X	X
Hazel Dormouse	X	X				X		X	X	X
Red Fox	X	X	X		X	X	X	X	X	X
Pine Marten	X	X	X		X	X	X		X	X
Polecat	X	X	X		X	X	X	X	X	X
Polecat-Ferret and Feral-Ferret					X		X		X	
Stoat	X	X	X		X	X	X	X	X	X
Weasel	X	X	X		X	X	X		X	X
American Mink	X	X	X		X	X	X	X	X	X
Eurasian Badger	X	X	X		X	X	X	X	X	X
European Otter	X	X	X		X	X	X	X	X	X
Common Seal	X									
Grey Seal	X				X					
Red Deer	X	X	X		X	X	X	X	X	X
Sika Deer	X					X				
Fallow Deer	X	X	X		X	X	X	X	X	
Chinese Muntjac	X	X			X	X	X	X		
Roe Deer	X	X	X		X	X	X	X	X	X
<b>Species Count</b>	<b>37</b>	<b>36</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>36</b>	<b>33</b>	<b>27</b>	<b>32</b>	<b>33</b>

Species	SD67	SD68	SD69	SD78	SD79	SD89
West European Hedgehog	x	x	x	x	x	
European Mole	x	x	x	x	x	
Eurasian Common Shrew		x	x	x		
Eurasian Pygmy Shrew		x	x			
Eurasian Water Shrew				x	x	
Whiskered Bat	x	x	x			
Brandt's Bat			x	x		
Natterer's Bat	x	x	x	x	x	
Daubenton's Bat	x	x	x	x	x	
Noctule Bat		x	x			
Pipistrelles	x	x	x	x	x	
Brown Long-eared Bat	x	x		x	x	
Western Barbastelle						
Lesser Noctule						
European Rabbit	x	x	x	x	x	x
Brown Hare	x	x	x	x	x	
Mountain Hare						
Eurasian Red Squirrel	x	x	x	x	x	x
Eastern Grey Squirrel	x	x	x	x	x	
Bank Vole		x	x	x		
Field Vole		x	x	x		
European Water Vole		x	x			
Harvest Mouse						
Wood Mouse		x	x	x		
House Mouse						
Brown Rat			x		x	
Hazel Dormouse	x					
Red Fox	x	x	x	x		
Pine Marten	x	x			x	
Polecat			x		x	
Polecat-Ferret and Feral-Ferret						
Stoat	x	x	x	x	x	
Weasel			x		x	
American Mink		x				
Eurasian Badger	x	x	x		x	
European Otter	x	x	x	x	x	
Common Seal						
Grey Seal						
Red Deer		x	x			
Sika Deer		x				
Fallow Deer		x				
Chinese Muntjac						
Roe Deer		x	x	x	x	
<b>Species Count</b>	<b>17</b>	<b>28</b>	<b>27</b>	<b>20</b>	<b>19</b>	<b>2</b>