#### conservation amphibian and reptile







# snakes in the heather

- helping Britain's rarest reptile



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Owain Masters – Public Engagement & Education Officer

### SitH project development

- New Forest Smooth Snake Survey (2014-19)
- SitH Development Phase (2017-19)

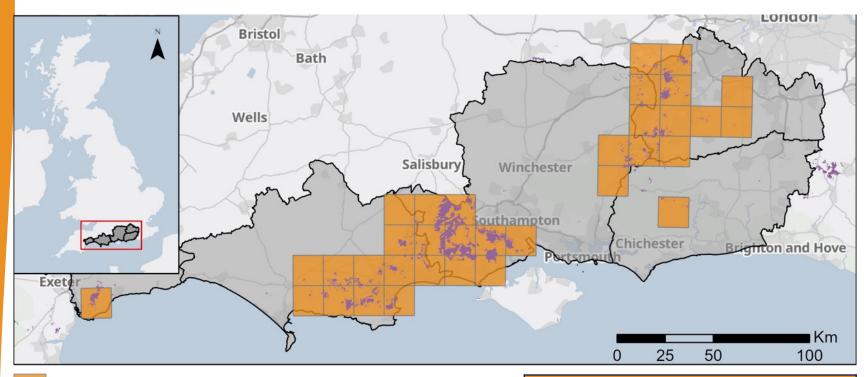








#### Project area



- Smooth snake presence (10km grid)
- Delivery region
- Heathland Extent (RSPB)

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Heathland area (hectares)							
New Forest	10,000						
Dorset	7000						
Devon	4000						
Surrey	3500						
Sussex	3000						

### **Project aims**

#### **Snakes in the Heather aims:**

#### **Aim 1:**

To raise public awareness of the conservation needs of our reptile and heathland heritage, helping to promote better understanding that safeguards their future

#### Aim 2:

To promote community relationships, personal wellbeing and life opportunities by providing chances for people to engage as project volunteers, allowing them to gain new skills and knowledge

#### **Aim 3:**

To develop guidance and technical support to advance the conservation and ecological resilience of the smooth snake and other heathland reptiles

#### **Outreach**



- 50 walks
- 26 talks
- 66 public events
- National media
- 6 conferences
- 7 workshops
- Reptile survey training programme

#### Citizen science













## Reptile Surveyor journey

Attend introductory training course (classroom / online)



Join a Group Reptile Survey

Test your classroom training and gain field-craft skills



Receive a protected species survey accreditation



Undertake independent reptile surveys under licence

### **Participation**

**357** people (inc. 124 partners) attended **19** reptile survey training events

**389** people participated in **67** Group Reptile Surveys to enhance their field craft skills after training

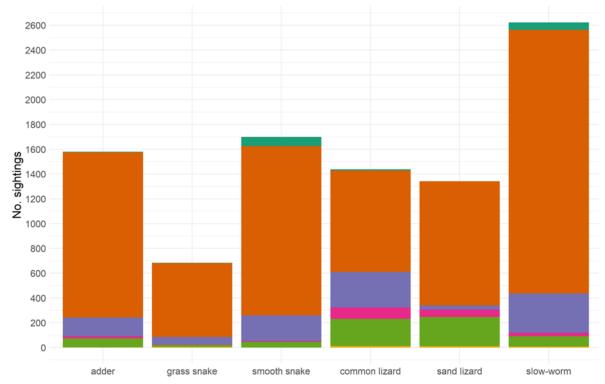
205 people participated in 1500+ reptile surveys at 120 sites





### Reptiles recorded

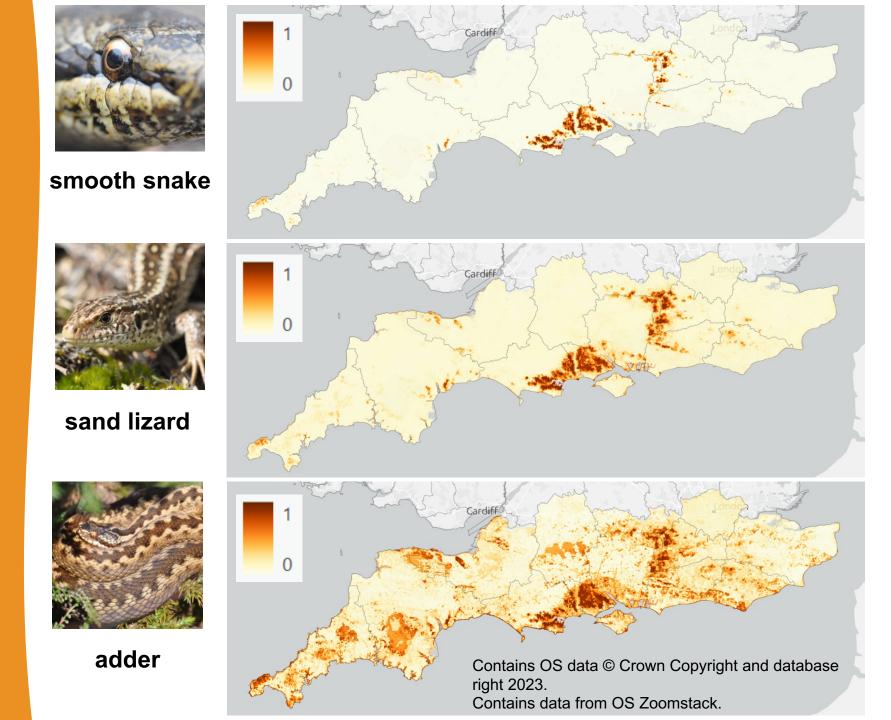




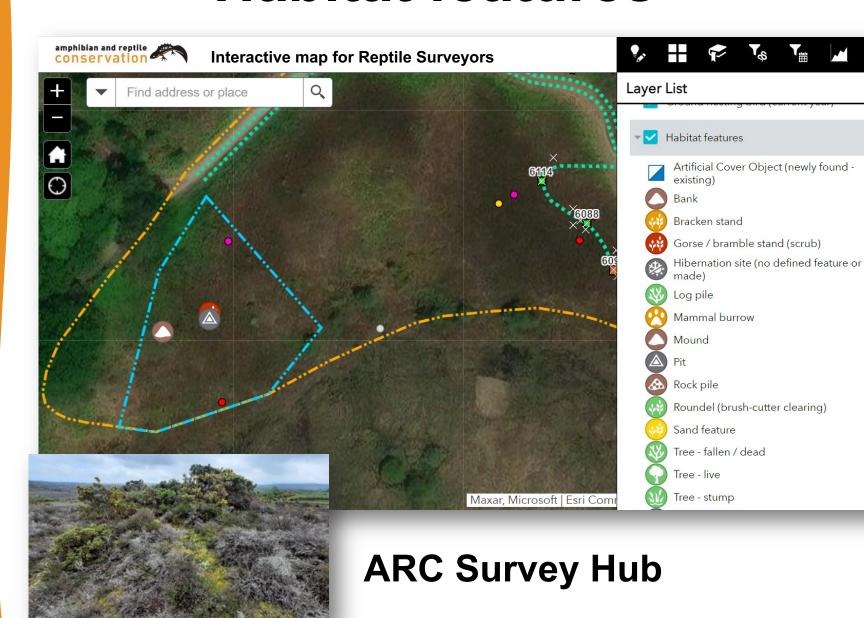
#### 18,000+ records collected in total! 1600 smooth snakes and 1500 adder

Delivery Region	adder	grass snake	smooth snake	snake species	common lizard	sand lizard	slow- worm	lizard species	no records	Grand Total	
New Forest National Park	146	55	204	8	289	32	305	23	1675	1987	

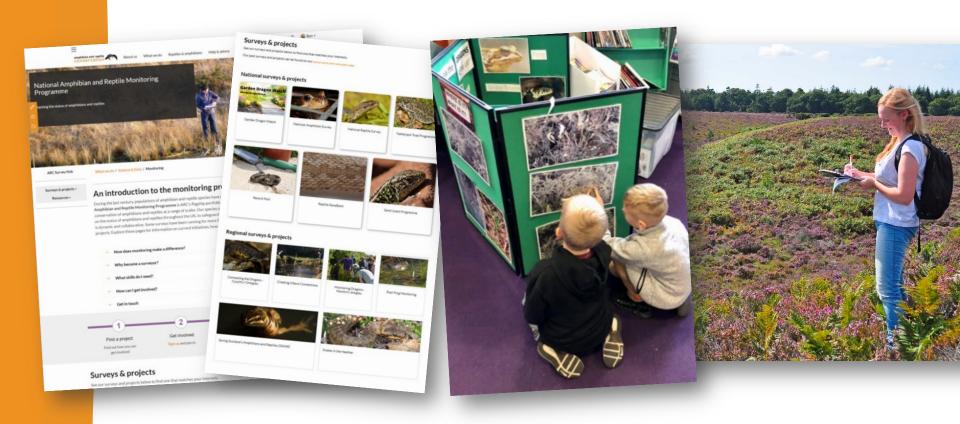
Figures are numbers of reptile sighting records collected on SitH partner and ARC reserves by SitH Reptile Surveyors, Aug 2019 to Nov 2023 (inc. ad hoc records).



#### **Habitat features**



### **Beyond SitH...**



National Amphibian & Reptile Monitoring Programme:

https://monitoring.arc-trust.org













# Thank you!

#### Working in partnership for conservation



















































# www.arc-trust.org

#### Working in partnership for conservation















































# **Questions and approaches**

Conservation question	Project approach
Where do smooth snakes and adders currently occur?	Habitat suitability model, collating existing data, promoting species recording, targeted distribution survey
Where is habitat currently suitable?	Habitat suitability model, collection of environmental data, targeted distribution survey
How does population status vary?	Structured, repeat visit survey (National Reptile Survey)
What factors influence distribution and population status?	Collection of environmental data, student research projects

#### Reptiles recorded

Delivery Region	adder	grass snake	smooth snake	snake species	commo n lizard	sand lizard	slow- worm	lizard species	no records	dartford warbler	nightjar	Grand Total
Devon (Pebblebed Heaths)	4	3	73		9		60		33			182
Dorset	1282	567	1310	24	761	940	2050	96	6865	32	25	13952
New Forest National Park	146	55	204	8	289	32	305	23	1675	2	6	2745
North East Hampshire	16	3	7	1	90	59	26	11	114		4	331
Surrey	69	17	43	1	208	220	82	15	295	1	9	960
West Sussex	1	3			11	7	6	1	16			45
<b>Grand Total</b>	1519	648	1637	34	1368	1258	2529	146	8998	35	47	18219

**18,000+** records collected in total!

1600 smooth snakes and 1500 adder

9000 negative records (ACOS lifted with no reptiles found)

Figures are numbers of reptile sighting records collected on SitH partner and ARC reserves by SitH Reptile Surveyors, Aug 2019 to Nov 2023 (inc. ad hoc records).

#### **Observations**



#### **Observations**





