



Secretaria Regional
do Ambiente e Recursos Naturais



WORKSHOP EXPERIENCES ON CONTROL AND ERADICATION OF INVASIVE ALIEN SPECIES IN ISLANDS

Eradication and control of vertebrate invasive species in Madeira Archipelago: a short review

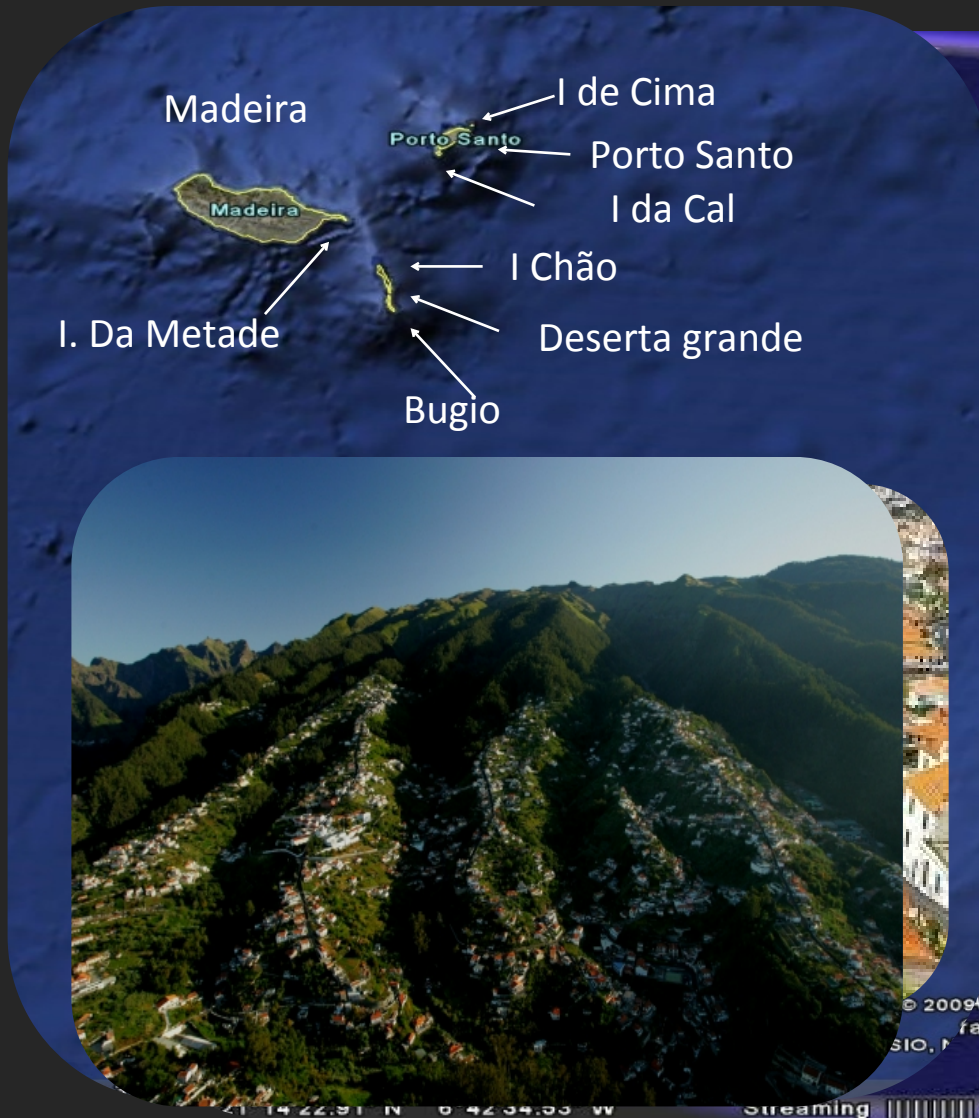
(1-3 June 2017) University of Madeira, Funchal, Madeira (Portugal)

MAP OF THE TALK

- Madeira general aspects
- Biodiversity and natural history
- Vertebrate Invasive species in Madeira
 - Historic and present situation
 - Results
- General conclusions



MADEIRA: GENERAL DISCRPTION



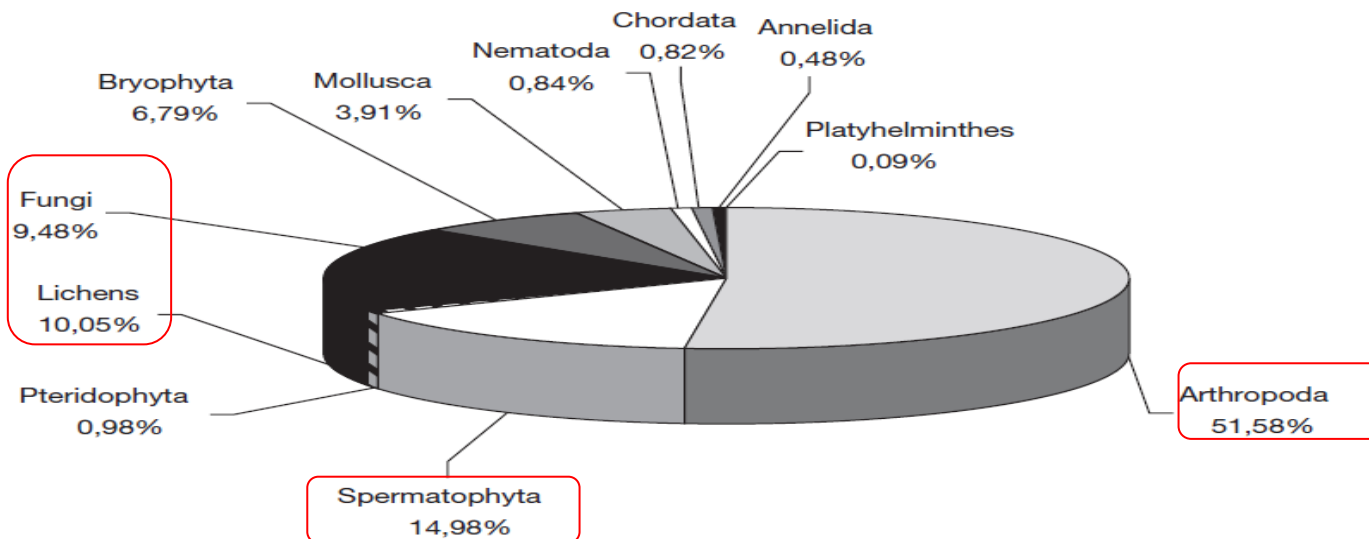
Comissão Regional de Ambiente e Recursos Naturais



MADEIRA: BIODIVERSITY AND NATURAL HISTORY



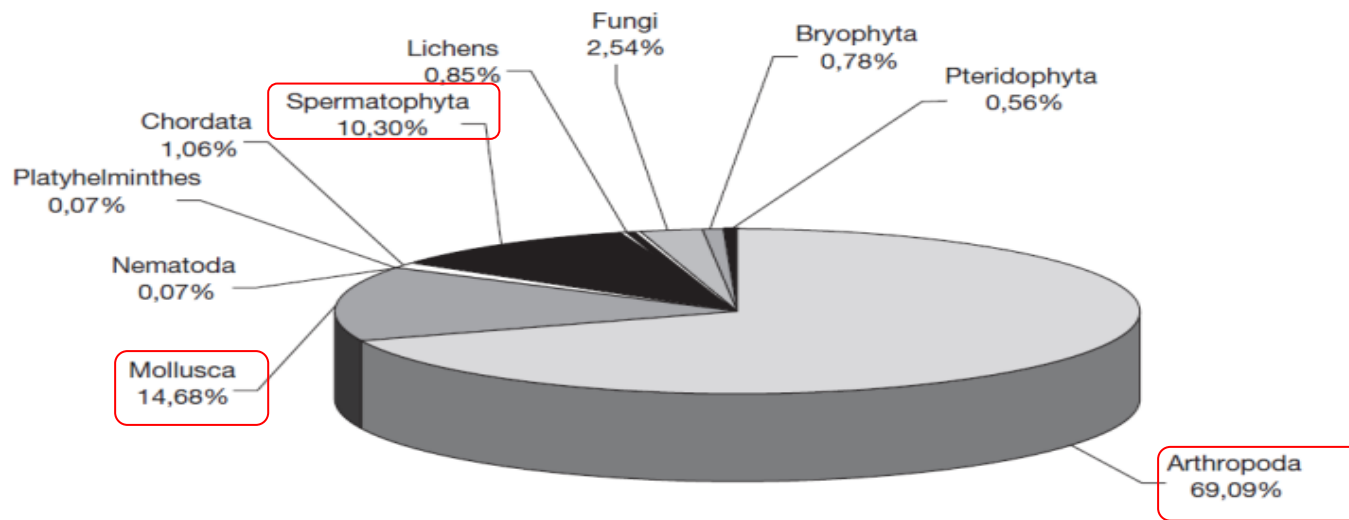
- Diversity of habitats
- 7571 taxa (2008)



MADEIRA: BIODIVERSITY AND NATURAL HISTORY

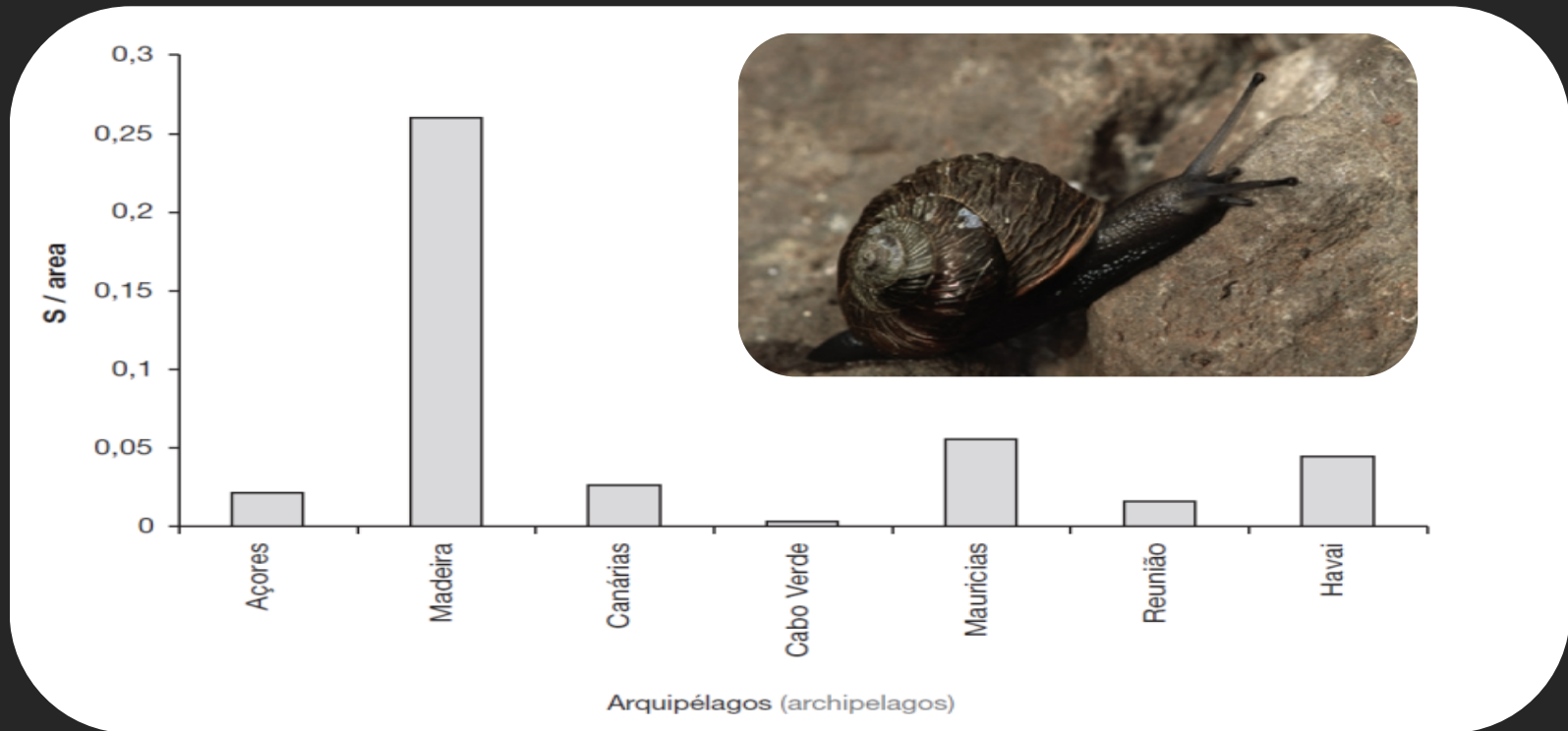


- 1419 taxa are endemic (20%)



MADEIRA: BIODIVERSITY AND NATURAL HISTORY

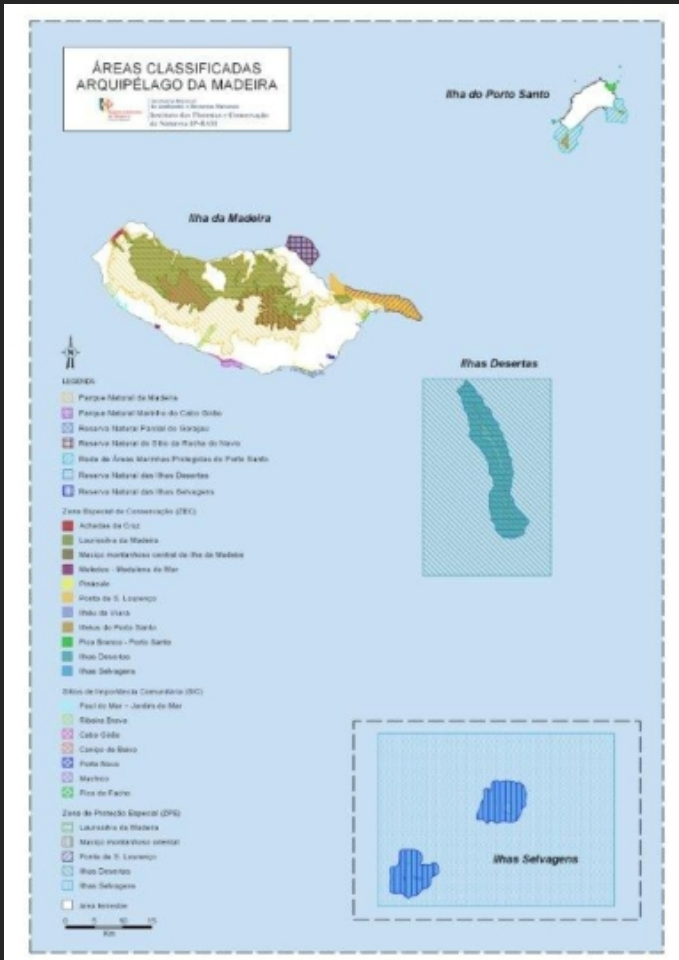
Number of endemic taxa per unit area (S/Area)



MADEIRA: PROTECTED AREAS

Protected Areas and Natura 2000 sites

- 7 Protected areas
- 18 Natura 2000 Sites
- 75 % del território



IAS DISTRIBUTION

Invasive vertebrate species 1990

Island/islet	Human	Size (ha)/ Altitude (m)	Vertebrate Invasive species in 1990							n
			Goat	Pig	Rabbit	Rats (sp)	Mice	Cat	Ferret	
Madeira	280.000	74175/1862								
Porto Santo	4000	4043/517								
Deserta Gr	(*)	1028/479								
Bugio	-	321/388								
Selvagem Gr.	(*)	241/163								
Ilhéu da Cal*	(*)	140/178								
Ilhéu de Ferro	-	25/130								
Ilhéu Chão	(*)	43/100								
Ilhéu de Cima	(*)	31/124								
I. da metade	(*)	20/ 98								
Selvagem Pq.	-	20/49								



Scientific Research
on Invasive and Exotic Species



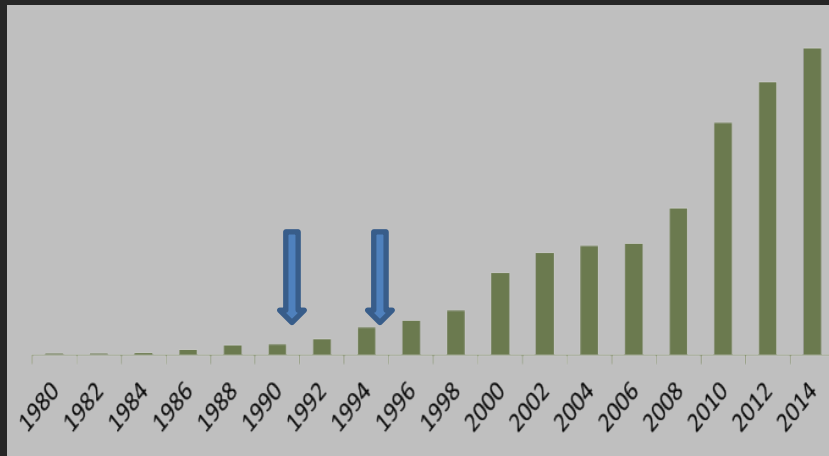
IAS DISTRIBUTION

Invasive vertebrate species 2017

Island/islet	Human	Size (ha)/ Altitude (m)	Vertebrate Invasive species 2017							n
			Goat	Pig	Rabbit	Rats (sp)	Mice	Cat	Ferret	
Madeira	280.000	74175/1862			P					7
Porto Santo	4000	4043/517	P	-	P	P	P	P	-	6
Deserta Gr	(*)	1028/479		-		-	P	-	-	3
Bugio	-	321/388		-		-		-	-	
Selvagem Gr.	(*)	241/163	-	-		-		-	-	
Ilhéu da Cal*	(*)	140/178	-	-		-		-	-	
Ilhéu de Ferro	-	25/130	-	-		-	-	-	-	
Ilhéu Chão	(*)	43/100	-	-	-	-		-	-	
Ilhéu de Cima	(*)	31/124	-	-		-	-	-	-	
I. da metade	(*)	20/ 98	-	-	-				-	
Selvagem Pq.	-	20/49	-	-	-	-	-	-	-	0

THE 1st ERADICATION PROJECT

- 1995
- Deserta Grande (1100 ha\479 m)



METHODS



- Methods
 - Bait
 - Broadcast by Hand (by foot)
 - Broadcasts by Hand (by helicopter)
 - Shoting
 - Traping

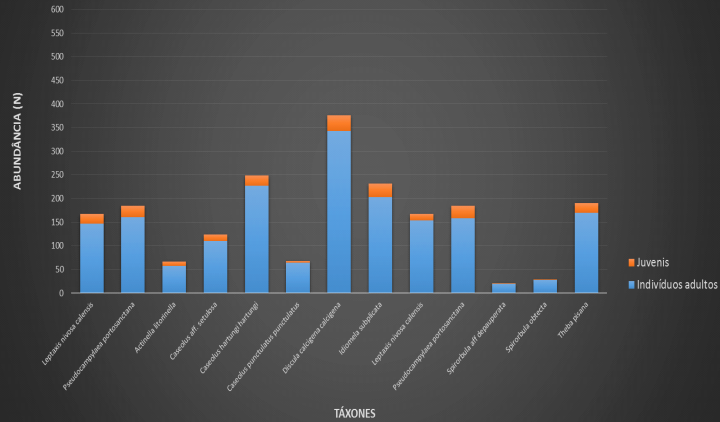


Bugio Island

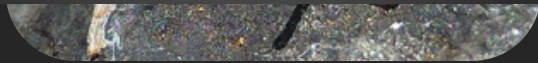


Cima Islet – 2600 snares

Abundância dos táxones alvo de predação Ilhéu de Baixo (2012)

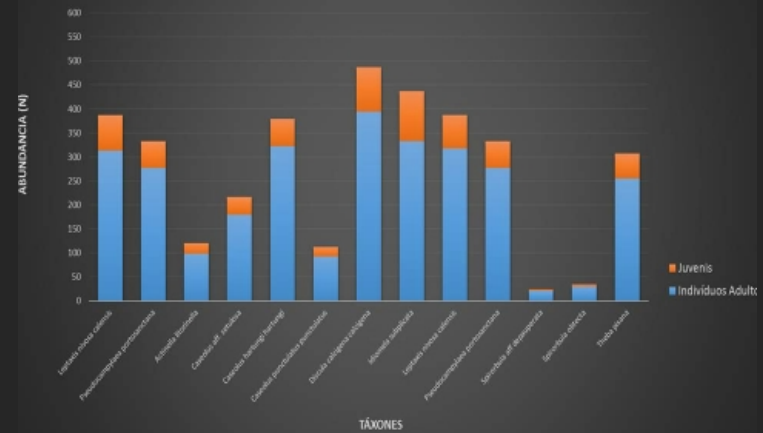


RESULTS



Land snails in I. Baixo (Porto Santo)

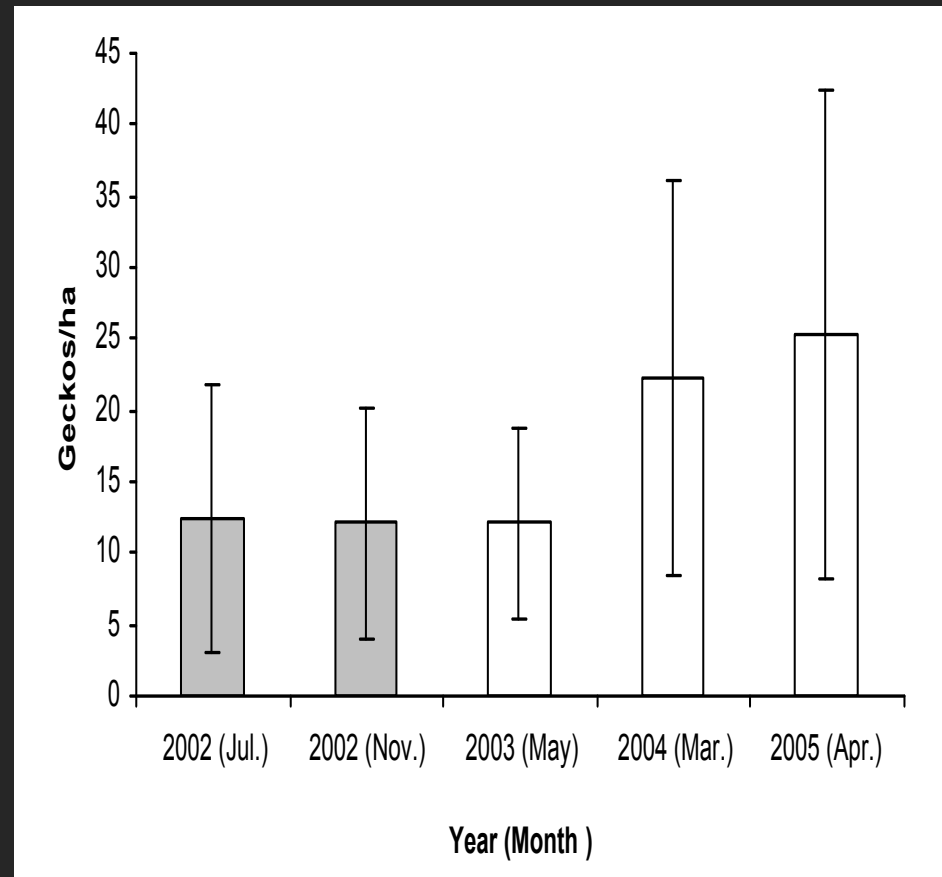
Abundância dos táxones alvo de predação Ilhéu de Baixo (2014)



RESULTS



Geckos in Selvagem Grande

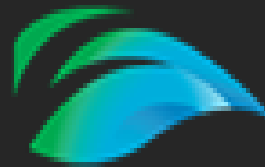


FUNDING

Budget of 5.000 M. Euros



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IFCN

Instituto das Florestas e
Conservação
da Natureza IP-RAM



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THE KEY FOR THE SUCCESS

Highly specialized and motivated team

