

Supplementary Materials:

Table S1. Summary of systematic literature review results.

Source	Total # items	# papers with keywords	# papers after initial screening
Web of Science	>78,000,000	130	25
Vertebrate Pest Conference 2020	68	3	0
Vertebrate Pest Conference 2018	63	0	0
Vertebrate Pest Conference 2016	75	0	0
Vertebrate Pest Conference 2014	90	3	0
Vertebrate Pest Conference 2012	71	2	0
Australasian Vertebrate Pest Conference 2017	140	1	0
Australasian Vertebrate Pest Conference 2014	135	5	1
Australasian Vertebrate Pest Conference 2011	187	6	0
International Conference on Island Invasives 2017	178	10	7
International Conference on Island Invasives 2011	140	3	0

Table S2. Summary of studies from systematic literature review that passed the secondary screening.

Database	Source type	Paper type	Source	Eradication as a climate solution?	Specific link between eradication and climate solution
Web of Science	peer-reviewed article	review	[1]	Yes	Potential for eradications to contribute to sustainable development goals, including ones related to climate resilience, mitigation, and adaptation
Web of Science	peer-reviewed article	empirical/modelling	[2]	Potential	Removing rabbits may reduce erosion, especially because erosion and landslides

Database	Source type	Paper type	Source	Eradication as a climate solution?	Specific link between eradication and climate solution
					becoming more frequent with increasing rainfall
Web of Science	peer-reviewed article	empirical/modelling	[3]	Potential	Removing rats may increase seabird nutrients, which may increase resilience of coral reefs to climate change
Web of Science	peer-reviewed article	review	[4]	Potential	General mention of eradications increasing resilience to climate change
Web of Science	peer-reviewed article	empirical/modelling	[5]	Potential	Consider sea level rise when planning IAS management
Web of Science	peer-reviewed article	review	[6]	Potential	Consider sea level rise when planning IAS management
Web of Science	peer-reviewed article	review	[7]	Potential	Consider sea level rise when planning IAS management
Web of Science	peer-reviewed article	review	[8]	Potential	Complicated relationships between climate change, erosion, invasive rabbits, and invasive/native plants so need to consider climate change and soil erosion processes in management
Web of Science	peer-reviewed article	empirical/modelling	[9]	Potential	Complicated relationships between climate change, erosion, invasive rabbits, and plant cover so need to consider climate change and soil erosion processes in management
Web of Science	peer-reviewed article	empirical/modelling	[10]	Potential	Removing rabbits may allow recovery of vegetation, leading to erosion control, nesting

Database	Source type	Paper type	Source	Eradication as a climate solution?	Specific link between eradication and climate solution
					platforms for native seabirds, and prevent burying of seabird burrows during heavy rains
International Conference on Island Invasives	conference paper	review	[11]	Potential	General mention of eradications increasing climate resilience and refugia
Web of Science	peer-reviewed article	empirical/modelling	[12]	No	
Web of Science	peer-reviewed article	empirical/modelling	[13]	No	
Web of Science	peer-reviewed article	review	[14]	No	
Web of Science	peer-reviewed article	review	[15]	No	
Web of Science	peer-reviewed article	empirical/modelling	[16]	No	
Web of Science	peer-reviewed article	empirical/modelling	[17]	No	
Web of Science	peer-reviewed article	empirical/modelling	[18]	No	
Web of Science	peer-reviewed article	review	[19]	No	
Web of Science	peer-reviewed article	review	[20]	No	
Web of Science	peer-reviewed article	empirical/modelling	[21]	No	
Web of Science	peer-reviewed article	review	[22]	No	
Web of Science	peer-reviewed article	empirical/modelling	[23]	No	

Database	Source type	Paper type	Source	Eradication as a climate solution?	Specific link between eradication and climate solution
Web of Science	peer-reviewed article	empirical/modelling	[24]	No	
Web of Science	peer-reviewed article	empirical/modelling	[25]	No	
International Conference on Island Invasives	conference abstract	review	[26]	No	
International Conference on Island Invasives	conference abstract	review	[27]	No	
International Conference on Island Invasives	conference paper	review	[28]	No	
International Conference on Island Invasives	conference paper	empirical/modelling	[29]	No	
International Conference on Island Invasives	conference abstract	empirical/modelling	[30]	No	
International Conference on Island Invasives	conference abstract	review	[31]	No	
Australasian Vertebrate Pest Conference	conference abstract	empirical/modelling	[32]	No	

Table S3. Summary list of funded projects that proposed, at least in part, to eradicate an invasive mammal from an island(s) with the justification aimed at improving resilience to the impacts of climate change. Table includes the funding entity: Global Environment Facility (GEF), Darwin Initiative (DI), Green Climate Fund (GCF), and the Wildlife Conservation Society's Climate Adaptation Fund (WCS), name of project, the year of project funding, project country, target species for eradication (including where the target species was not made explicit "TBD"), and name of the project island/archipelago.

Funding entity	Name of Project	Year	Country	Target mammal species	Island
GEF	Strengthening of Governance for the Protection of Biodiversity through the Formulation and Implementation of the National Strategy on Invasive Alien Species (NSIAS)	2012	Argentina	<i>Castor Canadensis</i>	Tierra del Fuego Archipelago
GEF	Enhancing National Capacities to Manage Invasive Alien Species (IAS) by Implementing the National Strategy on IAS	2012	Mexico	1 <i>Peromyscus eremicus cedrosensis</i> 2 <i>Rattus</i> 3 <i>Ovis aries; Felis silvestris catus*</i> 4 <i>F. silvestris catus</i>	1 San Benito Oeste 2 Banco Chinchorro Biosphere Reserve 3 Socorro Biosphere Reserve 4 Isla Espíritu Santo
GEF	Strengthening and Development of Instruments for the Management, Prevention and Control of Beaver (<i>Castor Canadensis</i>), an Invasive Alien Species in the Chilean Patagonia	2014	Chile	<i>Castor Canadensis</i>	Tierra del Fuego Archipelago
GEF	Building Capacities to Address Invasive Alien Species to Enhance the Chances of Long-term Survival of Terrestrial Endemic and Threatened Species on Taveuni Island and Surrounding Islets	2015	Fiji	<i>Iguana iguana</i>	Taveuni Island and surrounding islets
GEF	Strengthening National and Regional Capacities to Reduce the Impact of Invasive Alien Species on Globally Significant Biodiversity in the Pacific	2017	1 French Polynesia 2 Tonga	1 <i>R. exulans</i> 2 <i>R. exulans; R. rattus</i>	1 Wallis and Futuna (France) 2 Vava'u archipelago

Funding entity	Name of Project	Year Awarded	Country	Target mammal species	Island
			3 Federated States of Micronesia	3 <i>Rattus spp.*</i>	3 Arno Atoll, Marshall Islands
			4 Tonga, Niue, Republic of Marshall Islands, Tuvalu	4 <i>Rattus spp.</i>	4 Nursey islands to <i>Chelonia mydas</i> and <i>Eretmochelys imbricata</i> throughout region
GEF	Mainstreaming IAS Prevention, Control and Management	2017	Mauritius	TBD	TBD
GEF	Capacity strengthening for management of invasive alien species in South Africa to enhance sustainable biodiversity conservation and livelihoods improvement	2020	South Africa	<i>Mus musculus</i>	Marion Island
DI	Strengthening the world's largest Marine Protected Area: Chagos Archipelago	2012	Chagos Archipelago, British Indian Ocean Territory	<i>R. rattus</i>	Île Vache Marine
GCF	Ecosystem-based Adaptation in the Indian Ocean – EBA IO	2020	Madagascar, Mauritius, and Seychelles	TBD	TBD

*Project proposed to control invasive species

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