Ground Beetle (Trechus terrabravensis)

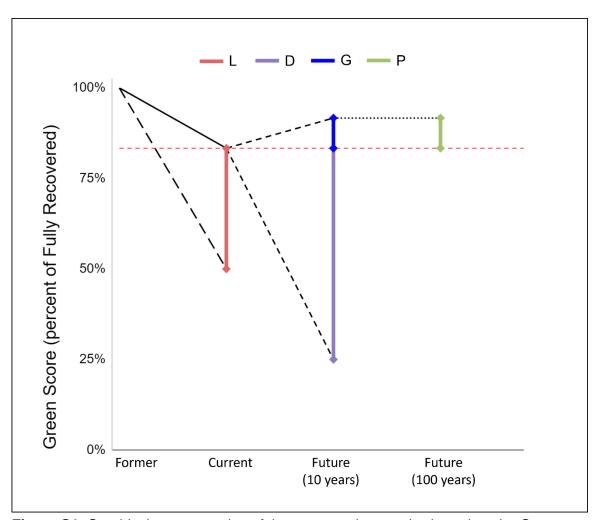


Figure S1. Graphical representation of the conservation metrics based on the Green Scores. Key: Vertical arrows represent the four conservation metrics: L – Conservation Legacy (may not appear if current and counterfactual states are the same); D – Conservation Dependence (may not appear if current and future-without-conservation states are the same); G – Conservation Gain (may not appear if current and future-with-conservation states are the same); P – Recovery Potential (may not appear if current

and potential states are the same). Horizontal red dashed line represents the Current Green Score. Solid black line: observed change in the Green Score of the species (ignore it if "Former" state is not specified). Long-dashed black line: (counterfactual) past change expected in the absence of past conservation efforts. Dashed black lines: future scenarios of change expected with and without current and future conservation efforts. Dotted black line: long-term potential change expected with future conservation innovation and efforts.

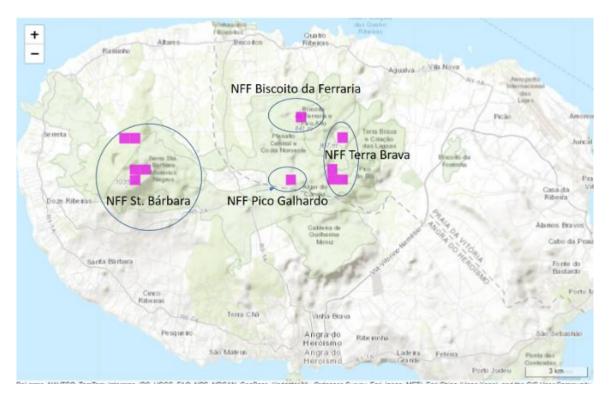


Figure S2. Pink squares represent the current distribution of *Trechus terrabravensis* on Terceira Island (Azores) within four main fragments of Native Forest. Circles around current known occurrences indicate regions with high topographic complexity throughout which *T. terrabravensis* may have occurred in 1850.

Table S1. Conservation Actions (<u>list of action codes</u>).

Classification	Full Description	Past actions (no longer occurring)	Current actions	Actions planned within 10 years	Actions that could be implemented in the long-term aspiration scenario
1.1	1.1 Land/water protection: Site/area protection	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	(Note that the act of establishing a protected site happened in the past, and ongoing protection and management is covered by actions 2.1 and 2.2).		
1.2	1.2 Land/water protection: Resource & habitat protection	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	(Note that the act of establishing a protected site happened in the past, and ongoing protection and management is covered by actions 2.1 and 2.2).		
2.1	2.1 Land/water management: Site/area management		NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.
2.2	2.2 Land/water management: Invasive/problematic species control		NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.

Classification	Full Description	Past actions (no longer occurring)	Current actions	Actions planned within 10 years	Actions that could be implemented in the long-term aspiration scenario
2.3	2.3 Land/water management: Habitat & natural process restoration	<u> </u>	NFF Terra Brava.	NFF Serra Sta. Bárbara.	NFF Biscoito da Ferraria; NFF Pico Galhardo.
3.1.1	3.1.1 Harvest management				
3.1.2	3.1.2 Trade management				
3.1.3	3.1.3 Limiting population growth				
3.2	3.2 Species recovery		NFF Serra Sta. Bárbara; NFF Terra Brava.	NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Biscoito da Ferraria; NFF Pico Galhardo.
3.3.1	3.3.1 Species re- introduction: Reintroduction				
3.3.2	3.3.2 Species re- introduction: Benign introduction				
3.4.1	3.4.1 Ex situ conservation: Captive breeding/artificial propagation				
3.4.2	3.4.2 Ex situ conservation: Genome resource bank				
4.1	4.1 Education and Awareness: Formal education		NFF Serra Sta. Bárbara; NFF Terra Brava.	NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Biscoito da Ferraria; NFF Pico Galhardo.
4.2	4.2 Education and Awareness: Training		NFF Serra Sta. Bárbara; NFF Terra Brava.	NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Biscoito da Ferraria; NFF Pico Galhardo.

Classification	Full Description	Past actions (no longer occurring)	Current actions	Actions planned within 10 years	Actions that could be implemented in the long-term aspiration scenario
4.3	4.3 Education and Awareness: Awareness & communications		NFF Serra Sta. Bárbara; NFF Terra Brava.	NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Biscoito da Ferraria; NFF Pico Galhardo.
5.1.1	5.1.1 Legislation: International level				
5.1.2	5.1.2 Legislation: National level				
5.1.3	5.1.3 Legislation: Sub- national level			NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	
5.1.4	5.1.4 Legislation: Scale unspecified				
5.2	5.2 Policies and regulations				
5.3	5.3 Private sector standards & codes				
5.4.1	5.4.1 Compliance and enforcement: International level				
5.4.2	5.4.2 Compliance and enforcement: National level				
5.4.3	5.4.3 Compliance and enforcement: Sub-national level			NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da	

Classification	Full Description	Past actions (no longer occurring)	Current actions	Actions planned within 10 years	Actions that could be implemented in the long-term aspiration scenario
				Ferraria; NFF Pico Galhardo.	
5.4.4	5.4.4 Compliance and enforcement: Scale unspecified				
6.1	6.1 Livelihood, economic & other incentives: Linked enterprises & livelihood alternatives				
6.2	6.2 Livelihood, economic & other incentives: Substitution				
6.3	6.3 Livelihood, economic & other incentives: Market forces				
6.4	6.4 Livelihood, economic & other incentives: Conservation payments				
6.5	6.5 Livelihood, economic & other incentives: Non-monetary values				

Table S2. Threats (list of threat codes).

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
1.1	1.1 Residential & commercial	longer occurring)	Ourient timeats	TIERT TO YEARS	Scenario
1.1	development: Housing & urban areas				
1.2	1.2 Residential & commercial				
1.2	development: Commercial & industrial areas				
1.3	1.3 Residential & commercial	NFF Serra Sta.			
	development: Tourism & recreation	Bárbara; NFF			
	areas	Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.1.1	2.1.1 Agriculture & aquaculture:	NFF Serra Sta.			
	Annual & perennial non-timber crops:	Bárbara; NFF			
	Shifting agriculture	Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.1.2	2.1.2 Agriculture & aquaculture:	NFF Serra Sta.			
	Annual & perennial non-timber crops:	Bárbara; NFF			
	Small-holder farming	Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.1.3	2.1.3 Agriculture & aquaculture:	NFF Serra Sta.			
	Annual & perennial non-timber crops:	Bárbara; NFF			
	Agro-industry farming	Terra Brava; NFF			
		Biscoito da			

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
	<u>.</u>	Ferraria; NFF Pico		_	
		Galhardo.			
2.1.4	2.1.4 Agriculture & aquaculture:	NFF Serra Sta.			
	Annual & perennial non-timber crops:	Bárbara; NFF			
	Scale Unknown/Unrecorded	Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.2.1	2.2.1 Agriculture & aquaculture:	NFF Serra Sta.			
	Wood & pulp plantations: Small-holder plantations	Bárbara; NFF			
		Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.2.2	2.2.2 Agriculture & aquaculture:	NFF Serra Sta.			
	Wood & pulp plantations: Agro-	Bárbara; NFF			
	industry plantations	Terra Brava; NFF			
		Biscoito da			
		Ferraria; NFF Pico			
		Galhardo.			
2.2.3	2.2.3 Agriculture & aquaculture:				
	Wood & pulp plantations: Scale				
	Unknown/Unrecorded				
2.3.1	2.3.1 Agriculture & aquaculture:	NFF Serra Sta.			
	Livestock farming & ranching:	Bárbara; NFF			
	Nomadic grazing	Terra Brava; NFF			
		Biscoito da			

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
		Ferraria; NFF Pico			
2.3.2	2.3.2 Agriculture & aquaculture: Livestock farming & ranching: Small- holder grazing, ranching or farming	Galhardo. NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.			
2.3.3	2.3.3 Agriculture & aquaculture: Livestock farming & ranching: Agro- industry grazing, ranching or farming	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.			
2.3.4	2.3.4 Agriculture & aquaculture: Livestock farming & ranching: Scale Unknown/Unrecorded				
2.4.1	2.4.1 Agriculture & aquaculture: Marine & freshwater aquaculture: Subsistence/artisanal aquaculture				
2.4.2	2.4.2 Agriculture & aquaculture: Marine & freshwater aquaculture: Industrial aquaculture				
2.4.3	2.4.3 Agriculture & aquaculture: Scale Unknown/Unrecorded				
3.1	3.1 Energy production & mining: Oil & gas drilling				

	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
3.2	3.2 Energy production & mining: Mining & quarrying				
3.3	3.3 Energy production & mining: Renewable energy	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.			
4.1	4.1 Transportation & service corridors: Roads & railroads	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.			
4.2	4.2 Transportation & service corridors: Utility & service lines				
4.3	4.3 Transportation & service corridors: Shipping lanes				
4.4	4.4 Transportation & service corridors: Flight paths				
5.1.1	5.1.1 Biological resource use: Hunting & collecting terrestrial animals: Intentional use (species being assessed is the target)				
5.1.2	5.1.2 Biological resource use: Hunting & collecting terrestrial animals: Unintentional effects				

		Past threats (no		Threats expected to emerge or continue over	Threats that would be relevant in the long-term aspiration
Classification	Full Description	longer occurring)	Current threats	next 10 years	scenario
	(species being assessed is not the target)				
5.1.3	5.1.3 Biological resource use: Hunting & collecting terrestrial animals: Persecution/control				
5.1.4	5.1.4 Biological resource use: Hunting & collecting terrestrial animals: Motivation Unknown/Unrecorded				
5.2.1	5.2.1 Biological resource use: Gathering terrestrial plants: Intentional use (species being assessed is the target)				
5.2.2	5.2.2 Biological resource use: Gathering terrestrial plants: Unintentional effects (species being assessed is not the target)				
5.2.3	5.2.3 Biological resource use: Gathering terrestrial plants: Persecution/control				
5.2.4	5.2.4 Biological resource use: Gathering terrestrial plants: Motivation Unknown/Unrecorded				
5.3.1	5.3.1 Biological resource use: Logging & wood harvesting: Intentional use: subsistence/small scale (species being assessed is the target [harvest]				

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
5.3.2	5.3.2 Biological resource use:	iongor occurring/	Garront timouto	noxt to youro	Coonano
0.0.2	Logging & wood harvesting:				
	Intentional use: large scale (species				
	being assessed is the target)[harvest]				
5.3.3	5.3.3 Biological resource use:				
	Logging & wood harvesting:				
	Unintentional effects:				
	subsistence/small scale (species				
	being assessed is not the				
	target)[harvest]				
5.3.4	5.3.4 Biological resource use:				
	Logging & wood harvesting:				
	Unintentional effects: large scale				
	(species being assessed is not the				
	target)[harvest]				
5.3.5	5.3.5 Biological resource use:				
	Logging & wood harvesting:				
	Motivation Unknown/Unrecorded				
5.4.1	5.4.1 Biological resource use: Fishing				
	& harvesting aquatic resources:				
	Intentional use: subsistence/small				
	scale (species being assessed is the				
	target)[harvest]				
5.4.2	5.4.2 Biological resource use: Fishing				
	& harvesting aquatic resources:				
	Intentional use: large scale (species				
	being assessed is the target)[harvest]				

	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
5.4.3	5.4.3 Biological resource use: Fishing & harvesting aquatic resources: Unintentional effects: subsistence/small scale (species being assessed is not the target)[harvest]				
5.4.4	5.4.4 Biological resource use: Fishing & harvesting aquatic resources: Unintentional effects: large scale (species being assessed is not the target)[harvest]				
5.4.5	5.4.5 Biological resource use: Fishing & harvesting aquatic resources: Persecution/control				
5.4.6	5.4.6 Biological resource use: Fishing & harvesting aquatic resources: Motivation Unknown/Unrecorded				
6.1	6.1 Human intrusions & disturbance: Recreational activities	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.
6.2	6.2 Human intrusions & disturbance: War, civil unrest & military exercises				
6.3	6.3 Human intrusions & disturbance: Work & other activities				

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
7.1.1	7.1.1 Natural system modifications: Fire & fire suppression: Increase in fire frequency/intensity	<u> </u>		,	
7.1.2	7.1.2 Natural system modifications: Fire & fire suppression: Suppression in fire frequency/intensity				
7.1.3	7.1.3 Natural system modifications: Fire & fire suppression: Trend Unknown/Unrecorded				
7.2.1	7.2.1 Natural system modifications: Dams & water management/use: Abstraction of surface water (domestic use)				
7.2.2	7.2.2 Natural system modifications: Dams & water management/use: Abstraction of surface water (commercial use)				
7.2.3	7.2.3 Natural system modifications: Dams & water management/use: Abstraction of surface water (agricultural use)				
7.2.4	7.2.4 Natural system modifications: Dams & water management/use: Abstraction of surface water (unknown use)				
7.2.5	7.2.5 Natural system modifications: Dams & water management/use:				

		Past threats (no		Threats expected to emerge or continue over	Threats that would be relevant in the long-term aspiration
Classification	Full Description	longer occurring)	Current threats	next 10 years	scenario
	Abstraction of ground water (domestic use)				
7.2.6	7.2.6 Natural system modifications: Dams & water management/use: Abstraction of ground water (commercial use)				
7.2.7	7.2.7 Natural system modifications: Dams & water management/use: Abstraction of ground water (agricultural use)				
7.2.8	7.2.8 Natural system modifications: Dams & water management/use: Abstraction of ground water (unknown use)				
7.2.9	7.2.9 Natural system modifications: Dams & water management/use: Small dams				
7.2.10	7.2.10 Natural system modifications: Dams & water management/use: Large dams				
7.2.11	7.2.11 Natural system modifications: Dams & water management/use: Dams (size unknown)				
7.3	7.3 Natural system modifications: Other ecosystem modifications	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da			

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
		Ferraria; NFF Pico Galhardo.	Ferraria; NFF Pico Galhardo.	Ferraria; NFF Pico Galhardo.	Ferraria; NFF Pico Galhardo.
8.1.1	8.1.1 Invasive & other problematic species, genes & diseases: Invasive non-native/alien species/diseases: Unspecified species	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF
8.1.2	8.1.2 Invasive & other problematic species, genes & diseases: Invasive non-native/alien species/diseases: Named species	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.
8.2.1	8.2.1 Invasive & other problematic species, genes & diseases: Problematic native species/diseases: Unspecified species				
8.2.2	8.2.2 Invasive & other problematic species, genes & diseases: Problematic native species/diseases: Named species				
8.3	8.3 Invasive & other problematic species, genes & diseases: Introduced genetic material				
8.4.1	8.4.1 Invasive & other problematic species, genes & diseases:				

		Past threats (no		Threats expected to emerge or continue over	Threats that would be relevant in the long-term aspiration
Classification	Full Description	longer occurring)	Current threats	next 10 years	scenario
	Problematic species/diseases of				
	unknown origin: Unspecified species				
8.4.2	8.4.2 Invasive & other problematic				
	species, genes & diseases:				
	Problematic species/diseases of				
	unknown origin: Named species				
8.5.1	8.5.1 Invasive & other problematic				
	species, genes & diseases:				
	Viral/prion-induced diseases:				
	Unspecified "species" (disease)				
8.5.2	8.5.2 Invasive & other problematic				
	species, genes & diseases:				
	Viral/prion-induced diseases: Named				
	"species" (disease)				
8.6	8.6 Invasive & other problematic				
	species, genes & diseases: Diseases				
	of unknown cause				
9.1.1	9.1.1 Pollution: Domestic & urban				
	waste water: Sewage				
9.1.2	9.1.2 Pollution: Domestic & urban				
	waste water: Run-off				
9.1.3	9.1.3 Pollution: Domestic & urban				
	waste water: Type				
	Unknown/Unrecorded				
9.2.1	9.2.1 Pollution: Industrial & military				
	effluents: Oil spills				
9.2.2	9.2.2 Pollution: Industrial & military				
	effluents: Seepage from mining				

		Past threats (no		Threats expected to emerge or continue over	Threats that would be relevant in the long-term aspiration
	Full Description	longer occurring)	Current threats	next 10 years	scenario
9.2.3	9.2.3 Pollution: Industrial & military				_
	effluents: Type Unknown/Unrecorded				
9.3.1	9.3.1 Pollution: Agricultural & forestry				
	effluents: Nutrient loads				
9.3.2	9.3.2 Pollution: Agricultural & forestry				
	effluents: Soil erosion, sedimentation				
9.3.3	9.3.3 Pollution: Agricultural & forestry				
	effluents: Herbicides & pesticides				
9.3.4	9.3.4 Pollution: Agricultural & forestry				
	effluents: Type Unknown/Unrecorded				
9.4	9.4 Pollution: Garbage & solid waste				
9.5.1	9.5.1 Pollution: Air-borne pollutants:				
	Acid rain				
9.5.2	9.5.2 Pollution: Air-borne pollutants:				
	Smog				
9.5.3	9.5.3 Pollution: Air-borne pollutants:				
	Ozone				
9.5.4	9.5.4 Pollution: Air-borne pollutants:				
	Type Unknown/Unrecorded				
9.6.1	9.6.1 Pollution: Excess energy: Light				
	pollution				
9.6.2	9.6.2 Pollution: Excess energy:				
	Thermal pollution				
9.6.3	9.6.3 Pollution: Excess energy: Noise				
	pollution				
9.6.4	9.6.4 Pollution: Excess energy: Type	NFF Serra Sta.			
	Unknown/Unrecorded	Bárbara; NFF			
		Terra Brava; NFF			

Classification	Full Description	Past threats (no longer occurring)	Current threats	Threats expected to emerge or continue over next 10 years	Threats that would be relevant in the long-term aspiration scenario
		Biscoito da Ferraria; NFF Pico Galhardo.			
10.1	10.1 Geological events: Volcanoes				
10.2	10.2 Geological events: Earthquakes/tsunamis				
10.3	10.3 Geological events: Avalanches/landslides			NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.
11.1	11.1 Climate change & severe weather: Habitat shifting & alteration			NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.	NFF Serra Sta. Bárbara; NFF Terra Brava; NFF Biscoito da Ferraria; NFF Pico Galhardo.
11.2	11.2 Climate change & severe weather: Droughts				
11.3	11.3 Climate change & severe weather: Temperature extremes				
11.4	11.4 Climate change & severe weather: Storms & flooding				
11.5	11.5 Climate change & severe weather: Other impacts				
12.1	12.1 Other threat				

Appendix 1: Assessor Self-Review

- 1. Disclose any potential conflicts of interest which could bias the assessment.

 NA.
- 2. Is there any discrepancy between this assessment and the Red List assessment for the species? If so, comment on the likely reason for this discrepancy.

There are no discrepancies.

3. Review the impact that you assigned to the various threats and conservation actions. Would the trajectory of the species be very different if other choices were made? If so, review your justification for these choices. If appropriate, widen the bounds on tabs 4 and 5-8 (change the lower and upper plausible values) to reflect the uncertainty introduced by the possibility of these other choices. How, if at all, did this review question cause this assessment to change? If no changes were needed, please write "no changes".

No changes.