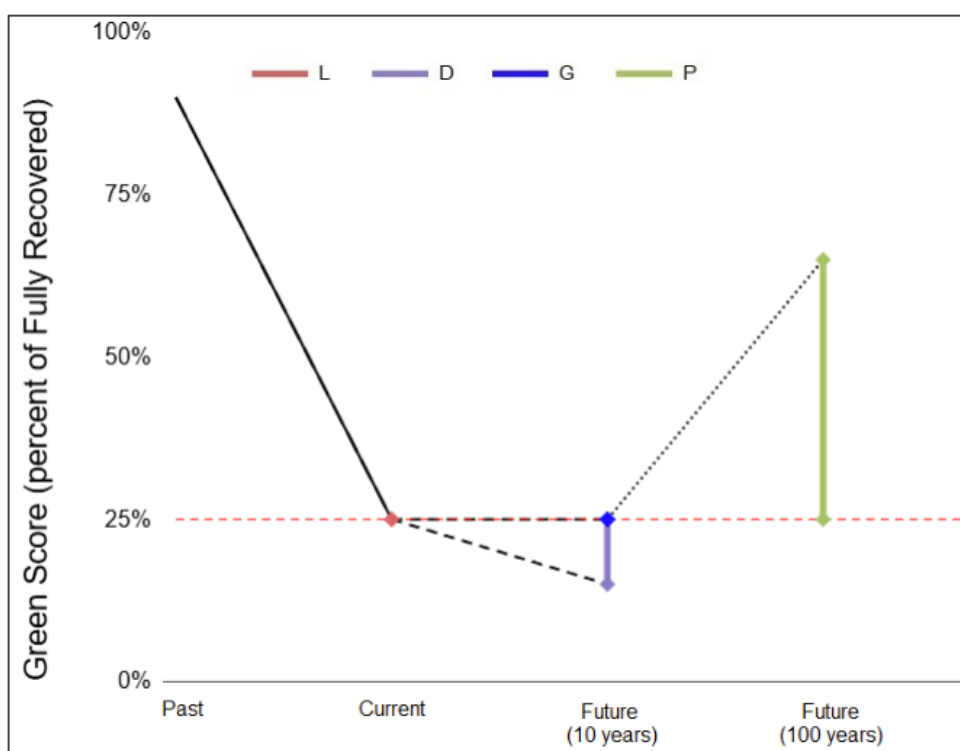
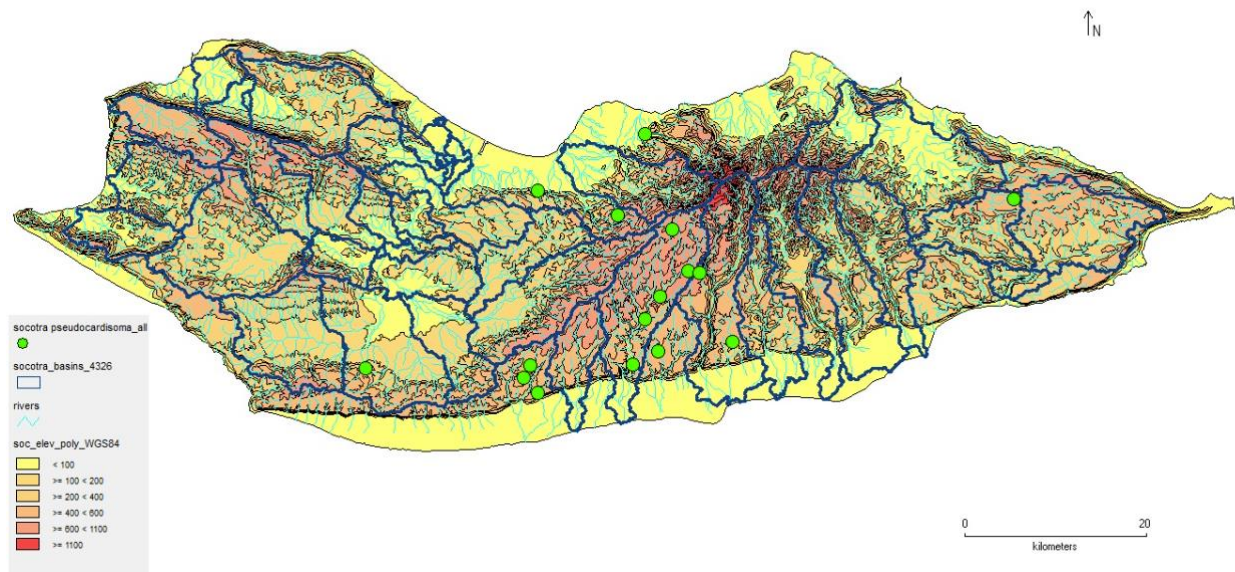


## Socotra Karst Crab (*Socotra pseudocardisoma*)



**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.** Map of Socotra Island with known occurrences of *Socotra pseudocardisoma* (green points). The species occupies caves, water-saturated rock holes and crevices in karstic limestone plateaus (mostly c. 660–740 m asl). It is plausible that the species formerly occurred in karstic limestone plateaus in western Socotra from which it is now absent, as suitable habitat exists there. Source: K. Van Damme, unpubl. data.

**Table S1.** Conservation actions relevant to the species in past, present, or future scenarios.

<b>Classification and Description</b>	<b>Relevant to species?</b>
1.1. Land/water protection: Site/area protection	X
1.2. Land/water protection: Resource & habitat protection	X
2.1. Land/water management: Site/area management	X
2.2. Land/water management: Invasive/problematic species control	X
2.3. Land/water management: Habitat & natural process restoration	X
3.1.1. Harvest management	
3.1.2. Trade management	
3.1.3. Limiting population growth	
3.2 Species recovery	X
3.3.1. Species re-introduction: Reintroduction	
3.3.2. Species re-introduction: Benign introduction	
3.4.1. Ex-situ conservation: Captive breeding/artificial propagation	Maybe
3.4.2. Ex-situ conservation: Genome resource bank	X
4.1. Education and Awareness: Formal education	X
4.2. Education and Awareness: Training	X
4.3. Education and Awareness: Awareness & communications	X
5.1.1. Legislation, International level	
5.1.2. Legislation, National level	X
5.1.3. Legislation, Sub-national level	X
5.1.4. Legislation, scale unspecified	X
5.2. Policies and regulations	X
5.3. Private sector standards & codes	
5.4.1. Compliance and enforcement- International level	
5.4.2. Compliance and enforcement- National level	
5.4.3. Compliance and enforcement- Sub-national level	X
5.4.4. Compliance and enforcement- Scale unspecified	X
6.1. Livelihood, economic & other incentives: Linked enterprises & livelihood alternatives	
6.2. Livelihood, economic & other incentives: Substitution	
6.3. Livelihood, economic & other incentives: Market forces	
6.4. Livelihood, economic & other incentives: Conservation payments	X
6.5. Livelihood, economic & other incentives: Non-monetary values	X

**Table S2.** Threats relevant to the species in past, present, or future scenarios.

<b>Classification and Description</b>	<b>Relevant to species?</b>
1.1 Residential & commercial development: Housing & urban areas	X
1.2 Residential & commercial development: Commercial & industrial areas	X
1.3 Residential & commercial development: Tourism & recreation areas	X
2.1.1 Agriculture & aquaculture: Annual & perennial non-timber crops: Shifting agriculture	
2.1.2 Agriculture & aquaculture: Annual & perennial non-timber crops: Small-holder farming	X
2.1.3 Agriculture & aquaculture: Annual & perennial non-timber crops: Agro-industry farming	
2.1.4 Agriculture & aquaculture: Annual & perennial non-timber crops: Scale Unknown/Unrecorded	X
2.2.1 Agriculture & aquaculture: Wood & pulp plantations: Small-holder plantations	
2.2.2 Agriculture & aquaculture: Wood & pulp plantations: Agro-industry plantations	
2.2.3 Agriculture & aquaculture: Wood & pulp plantations: Scale Unknown/Unrecorded	
2.3.1 Agriculture & aquaculture: Livestock farming & ranching: Nomadic grazing	X
2.3.2 Agriculture & aquaculture: Livestock farming & ranching: Small-holder grazing, ranching or farming	X
2.3.3 Agriculture & aquaculture: Livestock farming & ranching: Agro-industry grazing, ranching or farming	
2.3.4 Agriculture & aquaculture: Livestock farming & ranching: Scale Unknown/Unrecorded	X
2.4.1 Agriculture & aquaculture: Marine & freshwater aquaculture: Subsistence/artisanal aquaculture	
2.4.2 Agriculture & aquaculture: Marine & freshwater aquaculture: Industrial aquaculture	
2.4.3 Agriculture & aquaculture: Scale Unknown/Unrecorded	
3.1 Energy production & mining: Oil & gas drilling	
3.2 Energy production & mining: Mining & quarrying	
3.3 Energy production & mining: Renewable energy	
4.1 Transportation & service corridors: Roads & railroads	X
4.2 Transportation & service corridors: Utility & service lines	
4.3 Transportation & service corridors: Shipping lanes	
4.4 Transportation & service corridors: Flight paths	
5.1.1 Biological resource use: Hunting & collecting terrestrial animals: Intentional use (species being assessed is the target)	X

Classification and Description	Relevant to species?
5.1.2 Biological resource use: Hunting & collecting terrestrial animals: Unintentional effects (species being assessed is not the target)	
5.1.3 Biological resource use: Hunting & collecting terrestrial animals: Persecution/control	
5.1.4 Biological resource use: Hunting & collecting terrestrial animals: Motivation Unknown/Unrecorded	
5.2.1 Biological resource use: Gathering terrestrial plants: Intentional use (species being assessed is the target)	
5.2.2 Biological resource use: Gathering terrestrial plants: Unintentional effects (species being assessed is not the target)	
5.2.3 Biological resource use: Gathering terrestrial plants: Persecution/control	
5.2.4 Biological resource use: Gathering terrestrial plants: Motivation Unknown/Unrecorded	
5.3.1 Biological resource use: Logging & wood harvesting: Intentional use: subsistence/small scale (species being assessed is the target [harvest])	X
5.3.2 Biological resource use: Logging & wood harvesting: Intentional use: large scale (species being assessed is the target)[harvest]	
5.3.3 Biological resource use: Logging & wood harvesting: Unintentional effects: subsistence/small scale (species being assessed is not the target)[harvest]	X
5.3.4 Biological resource use: Logging & wood harvesting: Unintentional effects: large scale (species being assessed is not the target)[harvest]	
5.3.5 Biological resource use: Logging & wood harvesting: Motivation Unknown/Unrecorded	
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 Biological resource use: Fishing & harvesting aquatic resources: Intentional use: large scale (species being assessed is the target)[harvest]	
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 Biological resource use: Fishing & harvesting aquatic resources: Unintentional effects: large scale (species being assessed is not the target)[harvest]	
5.4.5 Biological resource use: Fishing & harvesting aquatic resources: Persecution/control	
5.4.6 Biological resource use: Fishing & harvesting aquatic resources: Motivation Unknown/Unrecorded	
6.1 Human intrusions & disturbance: Recreational activities	X
6.2 Human intrusions & disturbance: War, civil unrest & military exercises	X
6.3 Human intrusions & disturbance: Work & other activities	X
7.1.1 Natural system modifications: Fire & fire suppression: Increase in fire frequency/intensity	

<b>Classification and Description</b>	<b>Relevant to species?</b>
7.1.2 Natural system modifications: Fire & fire suppression: Suppression in fire frequency/intensity	
7.1.3 Natural system modifications: Fire & fire suppression: Trend Unknown/Unrecorded	
7.2.1 Natural system modifications: Dams & water management/use: Abstraction of surface water (domestic use)	X
7.2.2 Natural system modifications: Dams & water management/use: Abstraction of surface water (commercial use)	
7.2.3 Natural system modifications: Dams & water management/use: Abstraction of surface water (agricultural use)	X
7.2.4 Natural system modifications: Dams & water management/use: Abstraction of surface water (unknown use)	X
7.2.5 Natural system modifications: Dams & water management/use: Abstraction of ground water (domestic use)	X
7.2.6 Natural system modifications: Dams & water management/use: Abstraction of ground water (commercial use)	
7.2.7 Natural system modifications: Dams & water management/use: Abstraction of ground water (agricultural use)	X
7.2.8 Natural system modifications: Dams & water management/use: Abstraction of ground water (unknown use)	X
7.2.9 Natural system modifications: Dams & water management/use: Small dams	X
7.2.10 Natural system modifications: Dams & water management/use: Large dams	
7.2.11 Natural system modifications: Dams & water management/use: Dams (size unknown)	X
7.3 Natural system modifications: Other ecosystem modifications	X
8.1.1 Invasive & other problematic species, genes & diseases: Invasive non-native/alien species/diseases: Unspecified species	X
8.1.2 Invasive & other problematic species, genes & diseases: Invasive non-native/alien species/diseases: Named species	X
8.2.1 Invasive & other problematic species, genes & diseases: Problematic native species/diseases: Unspecified species	
8.2.2 Invasive & other problematic species, genes & diseases: Problematic native species/diseases: Named species	
8.3 Invasive & other problematic species, genes & diseases: Introduced genetic material	
8.4.1 Invasive & other problematic species, genes & diseases: Problematic species/diseases of unknown origin: Unspecified species	
8.4.2 Invasive & other problematic species, genes & diseases: Problematic species/diseases of unknown origin: Named species	X

Classification and Description	Relevant to species?
8.5.1 Invasive & other problematic species, genes & diseases: Viral/prion-induced diseases: Unspecified "species" (disease)	
8.5.2 Invasive & other problematic species, genes & diseases: Viral/prion-induced diseases: Named "species" (disease)	
8.6 Invasive & other problematic species, genes & diseases: Diseases of unknown cause	
9.1.1 Pollution: Domestic & urban waste water: Sewage	
9.1.2 Pollution: Domestic & urban waste water: Run-off	
9.1.3 Pollution: Domestic & urban waste water: Type Unknown/Unrecorded	
9.2.1 Pollution: Industrial & military effluents: Oil spills	
9.2.2 Pollution: Industrial & military effluents: Seepage from mining	
9.2.3 Pollution: Industrial & military effluents: Type Unknown/Unrecorded	
9.3.1 Pollution: Agricultural & forestry effluents: Nutrient loads	
9.3.2 Pollution: Agricultural & forestry effluents: Soil erosion, sedimentation	X
9.3.3 Pollution: Agricultural & forestry effluents: Herbicides & pesticides	X
9.3.4 Pollution: Agricultural & forestry effluents: Type Unknown/Unrecorded	X
9.4 Pollution: Garbage & solid waste	X
9.5.1 Pollution: Air-borne pollutants: Acid rain	
9.5.2 Pollution: Air-borne pollutants: Smog	
9.5.3 Pollution: Air-borne pollutants: Ozone	
9.5.4 Pollution: Air-borne pollutants: Type Unknown/Unrecorded	
9.6.1 Pollution: Excess energy: Light pollution	
9.6.2 Pollution: Excess energy: Thermal pollution	
9.6.3 Pollution: Excess energy: Noise pollution	
9.6.4 Pollution: Excess energy: Type Unknown/Unrecorded	
10.1 Geological events: Volcanoes	
10.2 Geological events: Earthquakes/tsunamis	
10.3 Geological events: Avalanches/landslides	X
11.1 Climate change & severe weather: Habitat shifting & alteration	X
11.2 Climate change & severe weather: Droughts	X
11.3 Climate change & severe weather: Temperature extremes	X

Classification and Description	Relevant to species?
11.4 Climate change & severe weather: Storms & flooding	X
11.5 Climate change & severe weather: Other impacts	X
12.1 Other threat	Direct consumption



## **Appendix 1. Assessor Self-Review**

- 1. Disclose any potential conflicts of interest, which could bias the assessment.**  
No conflicts of interest.

- 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.**  
The Red List Assessment was updated for the purpose of this Green Status Assessment.

- 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".**  
There were no conservation actions in the past.