



# Species

ISSUE 63

## 2022 Report of the IUCN Species Survival Commission and Secretariat



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## The IUCN Species Survival Commission (SSC)

The IUCN Species Survival Commission (SSC) is a science-based network of thousands of volunteer experts from almost every country of the world, all working together toward achieving the vision of “a just world that values and conserves nature through positive action to both prevent the loss and aid recovery of the diversity of life on earth.”

Members of SSC belong to one or more of near 200 Specialist Groups, Red List Authorities, Action Partnerships, Task Forces, and Conservation Committees that make up the Network, each focusing on a taxonomic group (plants, fungi, mammals, birds, reptiles, amphibians, fishes, and invertebrates), national species, or a disciplinary issue, such as sustainable use and livelihoods, translocation of species, wildlife health, climate change, and conservation planning.

Framed by the Species Conservation Cycle, SSC’s major role is to provide information to IUCN on biodiversity conservation, the inherent value of species, their role in ecosystem health and functioning, the provision of ecosystem services, and their support to human livelihoods. This information is fed into the IUCN Red List of Threatened Species.

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### 2021-2025 Species Strategic Plan

The IUCN Species Strategic Plan encompasses the joint work of the IUCN Species Survival Commission and a number of partnerships to achieve more than 2,700 targets proposed by the Network during the 2021-2025 quadrennium.

To accomplish those targets, the Species Conservation Cycle was established, which is the conceptual framework for the Network activities. The Species Conservation Cycle’s main purpose is to guide efforts for valuing and conserving biodiversity through three essential components that are linked to each other:

**ASSESS:** Understand and inform the world about the status and trends of biodiversity.

**PLAN:** Develop collaborative, inclusive and science-based conservation strategies, plans and policies.

**ACT:** Convene and mobilise conservation actions to improve the status of biodiversity.



Their implementation requires two transversal components:

**NETWORK:** Enhance and support our immediate network and alliances to achieve our biodiversity targets.

**COMMUNICATE:** Drive strategic and targeted communications to enhance our conservation impact.

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### SSC Species Report

Annual progress in the implementation of the 2021-2025 Species Strategic Plan is documented in the SSC *Species Report*, which consists of a comprehensive description and analysis of the activities and results generated by the members of the SSC Network each year. Each SSC Group contributes to this document by providing a yearly summarised description of their achievements, which is presented in stand-alone reports.

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## Structure of the IUCN SSC Stand-alone Report

Stand-alone reports summarize the activities conducted and results generated by each group member of the SSC. Following, is the structure of the stand-alone report and the contents under each session.

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### Title of the SSC Group

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### Photograph(s) of the Chair / Co-Chairs

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### Group information

Includes names of Chair / Co-Chairs, Vice-Chairs, Deputy Chairs, Red List Authority Coordinators and Program Officers, their institutional affiliations, number of members and social networks currently active.

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### Logo of the SSC Group

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### Mission statement

Includes the mission of the group.

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### Projected impact for the 2021-2025 quadrennium

Includes the description of the impact on species conservation resulting from the implementation of the targets formulated by the group for the 2021-2025 quadrennium.

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### Targets for the 2021-2025 quadrennium

Includes the targets planned by the SSC Group for the 2021-2025 quadrennium ordered alphabetically by component of the Species Conservation Cycle. Each target is labeled with a numerical code (e.g., T-001, T-012) that identifies it in the SSC DATA database and its status for the reported year is indicated (Not initiated, On track or Achieved).

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### Activities and results

Includes the targets for which activities were conducted and results were generated during the reported year, ordered alphabetically, first by component of the Species Conservation Cycle, and second by Activity Category. Description of activities and results includes the indicator that best describes progress, its associated quantitative or qualitative result, and the narrative description of the activity conducted or result obtained. Each activity or result reported is linked to the Key Species Result to which it is mainly associated (e.g., KSR#1, KSR#5).

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### Acknowledgements

Includes the acknowledgements to funding agencies, partners, and persons who contributed to the progress of the targets of the group.

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### Summary of achievements

Summarises information of the group's strategic plan for the quadrennium and progress achieved implementing targets for all the components of the Species Conservation Cycle during the reported year.

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### Recommended citation:

Hochkirch, A. 2023. 2022 Report of the Invertebrate Conservation Committee. In: Nassar, JM, García, L, Mendoza, L, Andrade, ND, Bezeng, S, Birkhoff, J, Bohm, M, Canteiro, C, Geschke, J, Henriques, S, Ivande, S, Mileham, K, Ramos, M, Rodríguez, A, Rodríguez, JP, Street, B, and Yerena, E (Eds.). 2022 Report of the IUCN Species Survival Commission and Secretariat. International Union for Conservation of Nature. 4 pp.

Animalia

Fungi

Plantae

National Species

Disciplinary

Action Partnership

Task Force

Red List Authority

Committee

Center for Species Survival

# IUCN SSC Invertebrate Conservation Committee



**CHAIR**  
Axel Hochkirch  
Trier University,  
Germany

**NUMBER OF MEMBERS**  
11

**SOCIAL MEDIA AND WEBSITE**  
Facebook: @IUCN.SSC.ICC

## Mission statement

The mission of the Invertebrate Conservation Committee (ICC) is to foster the conservation of terrestrial and freshwater invertebrates and their habitats around the world. We assess their conservation status, raise awareness and engage in practical conservation of these most species rich taxonomic groups on Earth.

## Projected impact 2021–2025

We aim to expand coverage of biodiversity within the IUCN SSC by adding more Specialist Groups for invertebrate taxa and raise the profile of invertebrates on the international conservation agenda.

## Targets 2021–2025

### ASSESS

**T-008** Conduct dung beetle Red List assessments.  
Status: On track

**T-011** Assess South African millipedes.  
Status: Achieved

**T-016** Develop the European Red List of Insect Taxonomists.  
Status: Achieved

### PLAN

**T-007** Develop three conservation strategies for threatened European pollinators.  
Status: Achieved

### ACT

**T-004** Conduct an integrative multi-taxon Assess-Plan-Act Project in the Nilgiri Biosphere Reserve (India).  
Status: On track

**T-005** Publish an article on how Red List assessments lead to conservation action.  
Status: Not initiated

**T-006** Send an Intervention Letter regarding Ayyalon Cave.  
Status: Achieved

### NETWORK

**T-002** Increase the number of Invertebrate Specialist Groups.  
Status: Achieved

**T-003** Organise an international congress on invertebrate conservation.  
Status: Not initiated

**T-009** Establish a Dung Beetle Specialist Group.  
Status: Achieved

**T-010** Expand the scope of the Butterfly Specialist Group to include moths.  
Status: Achieved

**T-013** Formation of an IUCN SSC Parasite Specialist Group.  
Status: Achieved

**T-014** Organise an All Invertebrate Conservation Meeting.  
Status: Achieved

**T-017** Organise a symposium on Insect Conservation.  
Status: Achieved

**T-018** Expand the scope of the Mid Atlantic Island Invertebrates Specialist Group to an Atlantic Island Invertebrate Specialist Group.  
Status: On track

### COMMUNICATE

**T-001** Develop Guidelines for Invertebrate Conservation in Protected Areas.  
Status: On track

**T-015** Develop a microhabitat standard for invertebrates.  
Status: Not initiated

## Activities and results 2022

### ASSESS

#### Red List

**T-008** Conduct dung beetle Red List assessments. (KSR 6)

Number of global Red List reassessments completed: 0

Result description: Red List assessments of 400 dung beetle species from South Africa have been drafted in collaboration with the IUCN-CI Biodiversity Assessment Unit and the IUCN SSC Dung Beetle Specialist Group. The assessments will be submitted in the summer of 2023.

**T-016** Develop the European Red List of Insect Taxonomists. (KSR 6)

Number of Red Lists of Taxonomists: 1

Result description: Funded by the European Commission and in collaboration with the IUCN European regional office, CETAF



*Andrena cineraria*, foraging on *Taraxacum officinale* (a honeybee in the background)  
Photo: Axel Hochkirch



*Vanessa vulcanica*  
Photo: Axel Hochkirch

and Pensoft, the first European Red List of Insect Taxonomists was published in November 2022.

## PLAN

### Planning

#### T-007 Develop three conservation strategies for threatened European pollinators. (KSR 8)

Number of conservation plans/strategies developed: 2

Result description: Funded by the European Commission, three conservation action plans for threatened pollinators have been completed (in collaboration with the IUCN European Regional Office, the IUCN SSC Mid Atlantic Island Specialist Group, the IUCN SSC Hoverfly Specialist Group and the IUCN SSC Wild Bee Specialist Group): one for Canarian pollinators of the laurel forest zone, one for wild bees specialised on teasel-plants and one for hoverflies specialised on veteran trees. We are confident that implementation of these plans can proceed in 2024.

## ACT

### Conservation actions

#### T-004 Conduct an integrative multi-taxon Assess-Plan-Act Project in the Nilgiri Biosphere Reserve (India). (KSR 10)

Number of areas under management for the species or group of species: 0

Result description: Red List assessments of Orthoptera from the Nilgiri Mountains have been started to set a basis for conservation planning. These will be submitted in 2023.

## NETWORK

### Membership

#### T-009 Establish a Dung Beetle Specialist Group. (KSR 2)

Number of new SSC groups established: 1

Result description: A proposal for a Dung Beetle Specialist Group was submitted to the IUCN SSC Steering Committee in July 2022 and approved in August 2022. The two Co-Chairs are Camila Leandro Rivel and Fernando Vaz-de-Mello.

#### T-013 Formation of an IUCN SSC Parasite Specialist Group. (KSR 2)

Number of new SSC groups established: 1

Result description: A proposal for a Parasite Specialist Group, chaired by Skylar R. Hopkins and Mackenzie L. Kwak was submitted in November 2022 to the IUCN SSC Steering Committee. The group was formally established on December 10th, 2022.

### Synergy

#### T-014 Organise an All Invertebrate Conservation Meeting. (KSR 2)

Number of meetings held: 2

Result description: On December 16th, 2022, two Meetings with Invertebrate SG chairs and Red List authorities were held to exchange about current activities and potential synergies.

### Capacity building

#### T-017 Organise a symposium on Insect Conservation. (KSR 3)

Number of symposia held: 1

Result description: A symposium on insect conservation was organized and held during the International Congress on Entomology in Helsinki (Finland).

## COMMUNICATE

### Communication

#### T-001 Develop Guidelines for Invertebrate Conservation in Protected Areas. (KSR 13)

Number of digital communication outputs developed in relation to specific taxonomic groups: 0

Result description: A draft of the Guidelines for Invertebrate conservation has been created in 2022 and will be completed in 2023. Members of ICC have also written chapters on conservation planning and Red List assessments for a new book on insect conservation.

## Acknowledgements

We thank the SSC Chairs office and the Center for Species Survival (Sergio Henriques) for constant support. We also would like to thank the IUCN European Regional office for fruitful collaboration.

## Summary of achievements

Total number of targets 2021–2025: 17

Geographic regions: 10 Global, 1 Africa, 2 Asia, 3 Europe, 1 America

### Actions during 2022:

Assess: 2 (KSR 6)

Plan: 1 (KSR 8)

Act: 1 (KSR 10)

Network: 4 (KSR 2, 3)

Communicate: 1 (KSR 13)

### Overall achievement 2021–2025:

