



Species

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2024-2025 Report of the IUCN Species Survival Commission and Secretariat



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.

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.

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 and Centers for Species Survival (CSS) each year. Each SSC and CSS group contributes to this document by providing a yearly summarised description of their achievements, which is presented in stand-alone reports.

Structure of the IUCN SSC and CSS Stand-alone Reports

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

Title of the group

Photograph(s) of the Chair/Co-Chairs

Group information

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

Logo of the group

Mission statement

Includes the mission of the group.

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.

Targets for the 2021-2025 quadrennium

Includes the targets planned by the SSC or CSS 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).

Activities and results

Includes the targets for which activities were conducted and results that were generated during 2024 (full year) and 2025 (first quarter), 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).

Acknowledgements

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

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.

Example for the recommended citation:

Drechsler-Santos, ER, Costa-Rezende, DH, Calaça, F, Trierweiler, L, Menoli Jr N, Martins-Cunha K, and da Silva Canêz, L. (2025). 2024-2025 Report of the Brazil Fungal Specialist Group. In: IUCN SSC and Secretariat. *Species: Annual Report of the IUCN Species Survival Commission and Secretariat 2024-2025*. Gland, Switzerland: IUCN. 6 pp.

Animalia

Fungi

Plantae

National Species

Disciplinary

Action Partnership

Task Force

Red List Authority

Committee

Center for Species Survival

2024-2025 Report

IUCN SSC Brazil Fungal Specialist Group



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NUMBER OF MEMBERS
8

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X: @iucnfungibrazil

Mission statement

Brazil hosts a great fungal diversity, but little is known about its conservation. The basics for a policy of including Fungi in Brazil's conservation agenda still do not exist, given that recently threatened species published on the global Red List have not yet been recognised in a National Red List or in Brazilian government conservation and biodiversity programs. Thus, the IUCN SSC Brazil Fungal Specialist Group emerged with the vision: Brazil, a country that values and conserves Fungi. Our experts, mainly mycologists and lichenologists, are dedicated to including Fungi in the species survival programmes, environmental law, protected areas, social and economic policy, ecosystem management, education and communication. Some of our goals are: to train specialists to assess the status of fungal species conservation, to assess the conservation status of fungal species – promoting workshops –, to recognise agents of environmental competence and search for political engagement, and to communicate the importance of fungal conservation to specialists from different areas of environmental sciences and the general population. In this way, we want to work with training specialists to assess species conservation status (Assess) and contact decision makers of environment agencies

(Network), which will allow the elaboration of plans (Plan) and actions for species conservation (Action). All these activities will be accompanied by communication actions (Communication).

Projected impact 2021–2025

Not stated yet.

Targets 2021–2025

ASSESS

T-003 Produce regional/national assessments of species extinction risk based on the IUCN Red List guidelines, offering to government-competent environmental institutions the specialised support for species indication for publication of a national/regional fungal Red List.
Status: On track

T-004 Organise the Brazilian fungal Red List workshops.
Status: On track

T-005 Provide support for organising and conducting South American IUCN workshops on assessing fungal and lichen species for the IUCN Global Red List.
Status: On track

T-011 Contribute and support the final process of the assessment and publication

of the rest of the species proposed during the 1st Brazilian workshop on assessing fungal and lichen species for the IUCN Global Red List.
Status: On track

T-013 Seek financial support for research and conservation actions related to threatened fungal species.
Status: On track

PLAN

T-008 Select species for promotion of conservation actions at national or regional level.
Status: On track

ACT

T-006 Active research on Brazilian federal legislation to find points – laws, articles and items – of approximation for the inclusion of Fungi in the national legislation.
Status: On track

T-012 Establish the first Brazilian *ex situ* fungal collection of threatened species – in partnership with MIND.Funga.
Status: On track

T-014 Promote the formal inclusion of Fungi in the Extinction Risk Assessment Process of Brazilian Biodiversity.
Status: On track



Heteroradulum brasiliense (Bodman) Spirin and Malysheva
assessed as VU at the 2nd Brazilian Workshop on Assessing
Fungal and Lichen Species for the IUCN Global Red List
Photo: Thiago Kossmann

NETWORK

T-001 Discuss, deliberate and invite members with a broad range of expertise, including non-mycologists and non-academics.

Status: On track

T-007 Offer training on fungal red listing for students and specialists.

Status: On track

COMMUNICATE

T-009 Discuss, deliberate, create and update a social media (Instagram/X) profile and a website for the group.

Status: On track

T-010 Participation of members in national and international scientific events communicating about the conservation of Brazilian Fungi and achievements of the Brazil Fungal Specialist Group. Also, contribute and promote the project 'Flora e Funga do Brasil'.

Status: On track

Activities and results 2024-2025

ASSESS

Red List

T-004 Organise the Brazilian fungal Red List workshops. (KSR 6)

Number of workshops organized: 3

Result description: In 2024, three Red List workshops were held: (1) 2nd Brazilian Workshop on assessing Fungal and Lichen Species for the IUCN Global Red List (IUCN Internal Grant); (2) International Workshop - reassessment of *Rickiella edulis* (MBZ Grant - project number: #232532246), and (3) BEM Conservation Initiative.

T-011 Contribute to and support the final process of the assessment and publication of the rest of the species proposed during the 1st Brazilian workshop on assessing fungal and lichen species for the IUCN Global Red List. (KSR 6)

Number of new global Red List assessments completed: 20

Result description: Twenty assessments were completed in 2024, all of them species occurring in Brazil (2nd Brazilian Workshop on assessing Fungal and Lichen Species for the IUCN Global Red List and BEM initiative).

Research activities

T-013 Seek financial support for research and conservation actions with threatened fungal species. (KSR 5)

Number of research projects completed or supported by SSC members per taxonomic group and region: 2

Result description: Two funded projects were approved in 2024: (1) Climbing the mountain to conserve the magnificent Brazilian edible mushroom *Pleurotus magnificus*, an Endangered species restricted to Araucaria forests (MBZ funding); (2) Qualifying fungal conservation: Accelerating the Brazilian Funga conservation and extinction risk assessment through AI-based habitat models and IUCN guidelines (Mohamed bin Zayed Species project number 242533800).

PLAN

Planning

T-008 Select species for promotion of conservation actions at national or regional level. (KSR 8)

Number of species conservation plans/strategies developed: 1

Result description: Discussion with environmental agent from ICMBio of PNSJ to predict specific strategy for *in situ* protection of the Critically Endangered (CR) *Fomitiporia nubicola*.

ACT

Conservation actions

T-012 Establish the first Brazilian *ex situ* fungal collection of threatened species – in partnership with MIND.Funga. (KSR 10)



Co-Chairs of BrazFunSG receiving "The SSC Chair's citation of Excellence" from Jon Paul Rodriguez
Photo: Unknown



The SSC Chair's citation of Excellence award received at the 5th IUCN SSC Leaders Meeting
Photo: Elisandro Ricardo Drechsler dos Santos



Participants of the 2nd Brazilian Workshop on Assessing Fungal and Lichen Species for the IUCN Global Red List
Photo: Unknown

Number of threatened species benefiting from *ex situ* conservation action: 2

Result description: In 2024, we attempted to introduce five individuals of *F. nubicola* and three of *Bondarzewia loguerchie* into the culture collection. Successful maintenance of two accessions of *F. nubicola* and one of *B. loguerchie*.

Technical advice

T-006 Active research on Brazilian federal legislation to find points – laws, articles and items – of approximation for the inclusion of Fungi in the national legislation. (KSR 10)

Number of technical consultations provided to support conservation actions: 2

Result description: In 2024, we worked on providing information for the inclusion of Brazilian threatened fungi as beneficiary species at 'Plano de ação territorial para conservação de espécies ameaçadas de extinção do planalto sul' and providing information and participating in discussions for creation of the Brazilian Red List of Threatened Fungi. Synergistic action with environmental stakeholders culminated in the national Decret N°12.137, establishing the guidelines for recognition of threatened fungi in Brazil, as well as its conservation.

NETWORK

Capacity building

T-001 Discuss, deliberate and invite members with a broad range of expertise, including non-mycologists and non-academics. (KSR 2)

Number of people trained in assessment tools: 30

Result description: In 2024, 30 new members were included in the Group.



Larissa Trierweiler Pereira and Diogo Rezende representing BrazFunSG at 74° Congresso Nacional de Botânica (Brazil)
Photo: Unknown

T-007 Offer training on fungal red listing for students and specialists. (KSR 2)

Number of people trained in assessment tools: 15

Result description: Fifteen people were trained in fungal red listing.

COMMUNICATE Communication

T-009 Discuss, deliberate, create and update a social media (Instagram/X) profile and a website for the Group. (KSR 13)

Number of media articles mentioning IUCN Species theme: 2

Result description: Two media articles were published in 2024: (1) 'Uma nova vitória para a conservação da funga do Brasil', *Boletim Micobiota*, v.4, n.3: 13-14, and (2) 'Proteção dos fungos demanda esforços mundiais', *Boletim Micobiota*, v.4, n.4: in press.

Number of digital communication outputs developed in relation to specific taxonomic groups: 23

Result description: In 2024, four complete reports were published in the Group's [website blog](#), and 14 posts on Instagram. In 2025, five posts about fungal conservation in Brazil were published on Instagram, four in our account @iucnssc_fungibrazil and one in @mind.funga.

Scientific meetings

T-010 Participation of members in national and international scientific events communicating about the conservation of Brazilian Fungi and achievements of the Brazil Fungal Specialist Group. Also, contribute and promote the project 'Flora e Funga do Brasil'. (KSR 13)

Number of SSC members' presentations developed in relation to specific taxonomic groups: 7

Result description: Lectures and presentations were delivered in National and International events: (1) X Congresso Brasileiro de Micologia (IUCN Internal Grants): 'Panorama geral de espécies ameaçadas que ocorrem no Brasil (macrofungos não liquenizados)'; 'Panorama geral de espécies ameaçadas que ocorrem no Brasil (fungos liquenizados)'; 'O que 13 anos de inventário e monitoramento nos dizem sobre *Fomitiporia nubicola*'; 'A divulgação científica como ferramenta para a conservação dos fungos'; (2) World Species Congress - Reverse the Red 2024 - O impacto das histórias e a Conservação: 'Estratégias de conservação del hongo quesito suizo (*Rickiella edulis*)'; (3) 44° ERBOT - Conservação de fungos no Brasil: desafios e perspectivas. 74° CNBot: Conservação de fungos no Brasil: cenário atual e perspectivas, and (4) IUCN Species Survival Commission (SSC) Leaders' Meeting 2024 - 'IUCN SSC Brazil Fungal Specialist Group' (Awarded - SSC Chair's Citation of Excellence).

Number of scientific events in which the members participated: 5

Result description: We participated in five scientific events: (1) X Congresso Brasileiro de Micologia; (2) World Species Congress - Reverse the Red 2024; (3) 44° ERBOT; (4) 74° CNBot, and (5) IUCN Species Survival Commission (SSC) Leaders' Meeting 2024.

Acknowledgements

Brazil Fungal Specialist Group thanks the International Union for Conservation of Nature (IUCN) and Re:Wild for their support through the IUCN SSC Internal Grant. We also thank the Mohamed bin Zayed Species Conservation Fund for funding two projects focused on the conservation of threatened fungal species in Brazil. Our gratitude also goes to the National Center for Plant Conservation (CNCFlora) for their partnership in advancing efforts towards the development of the first Red List of threatened fungal species in Brazil.

Summary of achievements

Total number of targets 2021–2025: 13

Geographic regions: 2 Global, 11 America

Actions during 2024–2025:

Assess: 3 (KSR 5, 6)

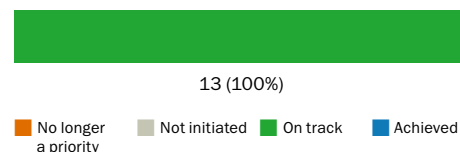
Plan: 1 (KSR 8)

Act: 2 (KSR 10)

Network: 2 (KSR 2)

Communicate: 4 (KSR 12, 13)

Overall achievement 2021–2025:



Suweon Treefrog
(*Dryophytes suweonensis*)
Photo: Amael Borzee



Marsh Cinquefoil
(*Comarum palustre*)
Photo: Magnus Goransson



Phallus aureolatus
Photo: Juliano Baltazar



Eurasian Griffon (*Gyps fulvus*)
Photo: Andre Botha



Black Rhino (*Diceros bicornis*)
Photo: Save The Rhino Trust Namibia



Azores Nursery Spider
(*Pisaura acoreensis*)
Photo: Paulo A.V. Borges



Black and White Snapper
(*Macolor niger*)
Photo: David B. Snyder