2021 Report

IUCN SSC Chytrid, Zygomycete, Downy Mildew and Myxomycete Specialist Group

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NUMBER OF MEMBERS
26

SOCIAL MEDIA AND WEBSITE
Facebook: Slime Mold Identification & Appreciation
Website: www.cybertruffle.org.uk/moulds/index.htm

Mission statement

The mission of our IUCN Specialist Group is to promote the conservation of chytrids, downy mildews, myxomycetes and zygomycetes.

Projected impact 2021–2025

Not stated.

Targets 2021–2025

ASSESS

T-001 Study climate change impact on myxomycetes, chytrid, zygomycete and downy mildew.

PLAN

T-004 Analyse population trends, threats, and assess species using the IUCN Red List criteria and determine conservation actions for chytrids, zygomycetes, downy mildews and myxomycetes.

ACT

T-002 Move forward the conservation activity for chytrid, zygomycete, downy mildew and myxomycetes.

NETWORK

T-003 Organise a network of specialists and stakeholders for discussing conservation problems for 'lower fungi' and for exchange of successful protection measures.

COMMUNICATE

T-005 Promote the conservation of different groups of living organisms that were not considered to be in danger before but are in need of protection today.

Activities and results 2021

ASSESS

Research activities

T-001 (KSR 5)

Number of scientific publications about species research that acknowledge SSC affiliation: 5

Result description: (1) Kryvomaz, T.I. and Savchenko, A.M. (2021). 'The reducing of construction industry influence on climate change by implementation of green building principles'. *Environmental safety and nature management* 37(1):55–68. https://doi.org/10.32347/2411-4049.2021.1.55-68; (2) Kryvomaz, T.I. and Savchenko, A.M. (2021). 'The adaptation of city development sectors to climate change'. *Environmental safety and nature management* 38(2):64–78. https://doi.org/10.32347/2411-4049.2021.2.64-78; (3) Mahura, A., et al. 'Online approaches for climate-oriented education', delivered at the International Research-on-Practice Conference 'Climate Services: Science and Education', Odessa State Environmental University, Odessa, Ukraine, 22–24 September 2021; (4) Kryvomaz, T., et al. 'Climate-related education: on-line approach in COVID times', delivered at the 2nd International Conference on Climate Change in the

Diderma simplex
Photo: Allain Michaud

Lamproderma arcyrioides
Photo: Allain Michaud

Physarum bogoriense
Photo: Allain Michaud

Eastern Mediterranean and Middle East (13–14 October 2021), Education and Training Opportunities pre-conference workshop session, The Eastern Mediterranean and Middle East – Climate and Atmosphere Research Centre, Cyprus, 11–12 October 2021; (5) Kryvomaz, T., Savchenko, A. and Perebynos, A. 'The adaptation of construction industry to climate change by implementation of green building principles', delivered at the International Conference 'Ecology, Resources, Energy' ERE-2021, KNUCA and Politechnika Lubelska, Kyiv National University of Construction and Architecture, Kyiv, Ukraine, 24–26 November 2021.

PLAN

Planning

T-004 (KSR 8)

Number of conservation plans/strategies developed: 1

Result description: We have engaged in development of conservation action plans and initiatives which influence positive conservation outcomes for species.

ACT

Policy

T-002 (KSR 10)

Number of position statements addressing major drivers/emerging threats of species or population loss: 2

Result description: In 2021, we (1) identified two ecological groups of myxomycetes which are affected by climate change; (2) implemented conservation action plans and technical advice on conservation actions; (3) provided practical advice on conservation actions.

NETWORK

Capacity building

T-003 (KSR 2)

Number of people trained in assessment tools: 5

Result description: We achieved the following: (1) capacity building, internal organisation meetings and synergy; (2) held virtual meetings plus in-person meetings; (3) developed networks and added additional members; (4) continued building capacity through conferences, courses, field expeditions and workshops.

COMMUNICATE

Communication

T-005 (KSR 13)

Number of communication products using innovative tools: 3

Result description: In 2021, our activities included: (1) enhancing and strengthening communications for improved connections and collaborations; (2) produced the scientific journal *Slime Molds* (https://slimemolds.org); (3) prepared material for communication through the Fungal Conservation Committee (FunCC) website (https://www.iucn-fungi.org/) and social media (https://twitter.com/IUCNfungi); (4) loaded 220 observations and about 1,000 photos of myxomycetes to iNaturalist (https://www.inaturalist.org).

Acknowledgements

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Summary of achievements

Total number of targets 2021–2025: 5

Geographic regions: 5 Global

Actions during 2021:

Assess: 1 (KSR 5)
Plan: 1 (KSR 8)
Act: 1 (KSR 10)
Network: 1 (KSR 2)
Communicate: 1 (KSR 13)

Overall achievement 2021–2025: