

4th Edition - MapBiomias Award

1. BACKGROUND

The Brazilian Annual Land Use and Land Cover Mapping Project (MapBiomias) is an initiative that involves a multi-institutional network (see the list of NGOs, universities, technology companies, and sponsors on Appendix I) and the collaboration of specialists in each biome, land use and land cover, remote sensing, GIS and computer science.

The initiative's purpose is to reveal the transformations in the Brazilian territory through science, with precision, agility, and quality, making knowledge about land use and land cover accessible to seek conservation, sustainable use of natural resources, and mitigate climate change. To achieve this goal, MapBiomias uses cloud computing and a high degree of process automation through the Google Earth Engine platform to produce annual land cover and land use mapping from 1985 to 2020.

MapBiomias' open access data has been used in many different applications. On the MapBiomias platform (<https://plataforma.brasil.mapbiomas.org/>) it is possible to analyze data and transitions in land cover and land use across a number of territorial scales, such as states, biomes, municipalities, hydrographic basins, protected areas, and rural settlements. In addition to the land cover and land use module, the platform also features modules covering deforestation, secondary vegetation, infrastructure, irrigation, pasture quality, mining, fire, and water.

The 4th Edition of the MapBiomias Award, in partnership with Ciência Hoje Institute, aims to stimulate and expand studies and works that use data from any MapBiomias initiative, module or product, including initiatives from other countries (e.g. MapBiomias Amazonia, Chaco, Atlantic Forest, Pampa, and Indonesia), and different products, such as MapBiomias Alert, MapBiomias Arida and Geo-covid (<https://mapbiomas.org/initiatives>).

MapBiomias will award 6 (six) works that explore the use and applications of data from any MapBiomias initiative, module, or product, totaling R\$ 60,000 in prize money (sixty thousand reais). Among those awarded works, two will be for the general category, two for works whose author is under 30 years old and has not completed graduation, one for works resulting from applications in public policy, and the last one will be for a new category of this edition, business application.

2. OBJECTIVE

The MapBiomias Award aims to recognize and encourage works that develop solutions and have contributed to the production of knowledge, public policies, and in the private sector using data from a MapBiomias' initiative, module, or product.

3. ELIGIBILITY

3.1. Individual or co-authored works (examples: studies, articles, monographs, dissertations, thesis, reports), authored by students from schools, technical level, graduate, professionals from private companies or from NGOs, public managers, etc., can compete for the MapBiomias Award.

3.2. In the Young Category, only works whose first author is up to 30 years old and has not yet completed a graduation course or graduated during 2021 are eligible.

3.3. In the General Category, Featured Public Policy Applications Category, and Featured Business Applications Category, people can apply regardless of age and education level.

3.4. The work must be submitted by one of the authors.

3.5. The works must, necessarily and mandatorily, meet the following eligibility criteria:

- a. Use data from any MapBiomias' initiative, module or product;
- b. Works can be unpublished or published from 2020 onwards in scientific articles, thesis, monographs, books, reports, etc.

3.6. Works can be the description of a MapBiomias data use in public policies or in projects and activities developed by civil society or companies.

3.7. You can submit as many works as you want, individually or collectively. However, each work can only be awarded once.

3.8. If no work meets the award criteria, it may be decided to not award the prize in one or more categories.

4. SELECTION PROCEDURE

4.1. REGISTRATION

4.1.1. Registrations are free and must be done by **March 20th, 2022**.

4.1.2. The author must fill out an online form with information about personal data and regarding the work being submitted.

4.1.3. Authors must send via this online form:

- a. Complete work in digital format (PDF), with an introduction, objectives, materials and methods, and results. Works may include figures, graphs, maps, tables, photos, and/or others. The works can be published articles, thesis, monographs, book chapters, reports, practical applications, however, limit your text to a maximum of 10 (ten) thousand words. If your published work exceeds this limit, we recommend that you adapt the work to this limit.
- b. If algorithms and analysis codes were used, they must be public or attached to the work.

- c. Declaration signed by all authors (the model in Appendix II) agreeing to send the work to compete for the Award.

4.1.4. Applications made by mail will not be accepted. Proposals submitted by any means other than those described in items 4.1.2 and 4.1.3 of this document will not be accepted, nor proposals submitted after the deadline established in item 4.1.1.

4.1.5. All data requested in the registration will be used only for award purposes.

4.1.6. Only candidates who fill in all the mandatory fields of the online form, according to item 4.1.2 of this document, and submit complete documentation as specified in item 4.1.3, will have their application accepted and will participate in the work evaluation stage, described in item 4.2 of this document.

4.2. WORK EVALUATION

4.2.1. An Award Committee will be constituted exclusively for this purpose, with at least 5 (five) members, including specialists and representatives of the partner organizations listed on Appendix I.

4.2.2. The members of the Award Committee will be designated by the MapBiomass team and ICIência Hoje Institute.

4.2.3. The members of the Award Committee will be responsible for the confidentiality of the candidates' information.

4.2.4. The criteria for judging the work are:

- a. Methodological and theoretical consistency;
- b. Relevance;
- c. Originality;
- d. Innovation;
- e. Potential of technical-scientific, socioeconomic, environmental, and public policy impact.

4.2.5. The result will be widely publicized through MapBiomass' and Ciência Hoje Institute's institutional communication channels.

4.2.6. The results determined by the commission cannot be appealed by participants.

5. AWARDING

5.1. Winners in each category will be awarded as follows:

- a. 1st place in General Category - value of R\$ 15,000.00 (fifteen thousand reais);
- b. 2nd place in General Category - value of R\$ 10,000 (ten thousand reais);
- c. 1st place in the Youth Category - value of R\$ 10,000 (ten thousand reais);
- d. 2nd place in the Youth Category - value of R\$5,000 (five thousand reais);
- e. Highlight Application in Public Policies - value of R\$ 10,000 (ten thousand reais);
- f. Highlight Application in Business - value of R\$ 10,000 (ten thousand reais).

5.2. All winners will receive an annual subscription to Ciência Hoje Digital Magazine, in addition to a scholarship for a course on Geoprocessing of satellite images using Google Earth Engine promoted by Solved, and the production of a short video (up to 2 minutes) about the winning work.

5.3. Certificates will be issued for award-winning authors.

5.4. Transportation and accommodation will be offered for up to 1 (one) author per awarded work to attend the award ceremony, which will take place on a date and place to be defined, depending on the COVID-19 pandemic scenario.

5.5. Only transportation inside the Brazilian territory will be covered.

6. TIMETABLE

Activity	Date
Award`s Notice Publication	November 10 th 2021
Registration Period	November 10 th 2021 to March 20 th 2022
Disclosure of Results and Award Ceremony	May 2022

7. GENERAL REGULATIONS

7.1 The winners automatically authorize MapBiomas and Ciência Hoje Institute, free of charge, to reproduce and disseminate, by any electronic, printed or audiovisual means, in whole or in part, in Brazil and abroad, their works, scientific articles, and respective figures and photographs, as well as footage recorded at the awards ceremony.

7.2. Decisions taken by the Award Committee cannot be appealed to.

7.3. Failure to comply with any instruction of this document implies disqualification of the competing work.

7.4. Cases not covered by this document will be analyzed by the Award Committee.

7.5. At any time, this document may be canceled or revoked for reasons of public interest, in whole or in part, without this implying the right to compensation or complaint of any nature.

7.6. Doubts and other information about this document should be sent solely and exclusively to the electronic address <premio@mapbiomas.org>.

APPENDIX I

List of institutions of the MapBiomias network

MapBiomias is an initiative of the Climate Observatory and is produced by a collaborative network of co-creators made up of NGOs, universities, and technology companies organized by biomes and cross-cutting themes.

Biomes Coordination:

Amazon – Institute of People and Environment of the Amazon (IMAZON)

Caatinga – Feira de Santana State University (UEFS), Northeast Plants Association (APNE) and GeoDatin

Cerrado – Amazon Environmental Research Institute (IPAM)

Atlantic Forest – SOS Mata Atlantica Foundation and ArcPlan

Pampa – Federal University of Rio Grande do Sul (UFRGS) and GeoKarten

Pantanal – SOS Pantanal Institute and ArcPlan

Cross-cutting Themes Coordination:

Pasture – Federal University of Goiás (LAPIG/UFG)

Agriculture – Agrosatelite

Coastal Zone and Mining – Vale Technological Institute (ITV) / Solved

Urban Areas – University of São Paulo (QUAPÁ-FAU/USP; NEPA and YBY), Federal University of Bahia and Federal University of São Carlos (NEEPC)

Technology Partners:

Google

EcoStage

Terras App Solutions

Financing:

Children's Investment Fund Foundation (CIFF)

Climate and Land Use Alliance (CLUA)

Global Wildlife Conservation (GWC)

Good Energies Foundation

Gordon & Betty Moore Foundation

Norway's International Climate and Forest Initiative (NICFI)

Arayaú Institute

Institute for Climate and Society (ICS)

Humanize Institute

OAK Foundation

Quadrature Climate Foundation (QCF)

Walmart Foundation (USA)

Wellspring Philanthropic Fund (WPC)

Skoll Foundation

Institutional Partners:

Arayaú Institute

WRI Brasil

AVINA Foundation

General Coordination: Tasso Azevedo (Climate Observatory)

Technical Coordination: Marcos Rosa (ArcPlan)

Scientific Coordination: Julia Shimbo (IPAM)

Independent Committee of Scientific Advice:

Alexandre Camargo Coutinho (Embrapa)

Edson Eygi Sano (IBAMA)

Gilberto Camara Neto (INPE)

Joberto Veloso de Freitas (Federal University of Amazonas)

Matthew C. Hansen (Maryland University)

Mercedes Bustamante (University of Brasília)

Timothy Boucher (TNC)

Robert Gilmore Pontius Jr (Clark University)

Technical Partners:

Institute of Agricultural and Forest Management and Certification (IMAFLOA)

Energy and Environment Institute (IEMA)

Socioambiental Institute (ISA)

Life Center Institute (ICV)

Institute for Democracy and Sustainability (IDS)

The Nature Conservancy (TNC)

WWF Brazil

APPENDIX II

Author declaration template

The author(s) hereby authorizes the submission of the work entitled **“INSERT WORK TITLE”** to the 4th Edition of the MapBiomass Award, and they are in accordance with the requirements and regulations of this award's notice.

All people listed as authors must sign this declaration.

The original declaration document must be signed, dated and forwarded via the online registration form.

Date:

Name and signature of all authors participating in e submitted work:
