



DIVERSITY
YAXHA



FLAAR
MESOAMÉRICA

MUSHROOMS

FROM THE PETÉN JUNGLE

vol. 1



Yaxha,
Petén, Guatemala

DR. NICHOLAS **HELLMUTH**



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Sarcoscypha occidentalis

Canon EOS-1D X Mark II, Canon MP-E 65MM F/2.8 1-5X MACRO.
Velocidad 1/80, apertura F 8, ISO 640. Location: National Park
Yaxha Nakum Naranjo, Peten. Brecha Ana Bella, Grupo Maler.
Photography by: Nicholas Hellmuth, FLAAR
Mesoamérica.

INDEX PHOTOGRAPH:

Cookeina tricholoma

NIKON D810 Ver.1.02, Lens Nikon AF-S Micro 60mm F2.8 G, USM.
Velocidad 1/60, apertura F 11, ISO 640.
Location: National Park Yaxha Nakum Naranjo, Peten. Photogra-
phy by: Nicholas Hellmuth, FLAAR Mesoamérica.

This report was made in cooperation with the
Yaxha-Nakum-Naranjo National Park to help
promote the park, its natural resources and
attract future visitors.





FLAAR Mesoamérica (Foundation for Latin American Anthropological Research), is a nonprofit Guatemalan institution founded under the direction and enthusiasm of biologist M. Sc. Edgar E. Sacayón and Dr. Nicholas Hellmuth, who is interested in flora y fauna of Guatemala for many decades, with the aim of wanting to see our country to be recognized throughout the world for its landscapes, culture and natural resources.

We believe knowledge and ancestral wisdom of natural resources can be taken to any kind of person through education. At the same time, it will awake admiration and desire in people who follow our work to preserve these resources. One of our main objectives is to create consciousness about looking after Mesoamerica natural diversity. Thus, the FLAAR team creates educational material to raise public awareness of it.

The work done in FLAAR Mesoamerica consists on the methodological compilation of facts about nature, flora, fauna, history, and culture of Mesoamerica, and to spread it up to the general public who play an important role in the conservation of ecosystems. One example is by making material that is easy to read, entertaining, reliable and visually pleasing, just like this report! We are open to work, share and, to expand the efforts we do with other organizations, institutions or companies that share our vision.

You can find more of our work in the different digital platforms of our directory:



www.FLAAR-mesoamerica.org
www.digital-photography.org
www.maya-ethnozoology.org
www.maya-ethnobotany.org

FLAAR_mesoamerica@flaar.org



NATIONAL PARK

YAXHA NAKUM NARANJO

Yaxha Nakum Naranjo National Park is a site of great natural and cultural importance for our country. Because of the diversity of species it holds, flora and fauna likewise is listed as a RAMSAR site because it includes three types of wetlands identify by the Wetland Convention: temporal lagoons, karstic systems, and peat bogs. From these systems stand out the Lagoon Yaxha and Lagoon Sacnab, Lankaja, Champoxte and Juleque reservoirs from the Lagoon Yaxha.

In reference to the cultural importance that this protected area represents is that it contains heritage from the Prehispanic Mayan period that includes 292 recognized sites from which four are monumental archaeological sites: Yaxha, Nakum, Naranjo, and Topoxte. Other six intermediate archaeological sites include: Naranjito, El Carmen, La Pochitoca, Poza Mayor, el Bajón y el Pital, with other 282 minor archaeological sites within. (Plan Maestro PNYNN, 2006)



View of the Yaxha lagoon from the Temple 216, one of the wetland ecosystems declared by RAMSAR.

Nikon D5. Lens 100mm f/2, f/11.0, 1/80, ISO 125. Location: Yaxha, Petén, Guatemala. Photograph by: Nicholas Hellmuth, FLAAR Mesoamérica

MUSHROOMS IN THE PARK

YAXHA NAKUM NARANJO



Auricularia americana- jelly tree ear
Canon EOS-1D X Mark II, Lens Canon 50mm f/2.5 Macro. Speed 1/6, opening F 13, ISO 6400, Location: National Park Yaxha Nakum Naranjo, Peten. South Area, Maler Group. Photography by: Alejandra Gutierrez, FLAAR



Auricularia americana- jelly tree ear

Canon EOS-1D X Mark II, Lens Canon 50mm f/2.5 Macro. Velocidad 1/6, apertura F 13, ISO 6400, Location: National Park Yaxha Nakum Naranjo, South Area, Maler Group. Photography by: Alejandra Gutierrez, FLAAR Mesoamérica.



Auricularia americana- jelly tree ear

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Auricularia americana- jelly tree ear

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Auricularia americana

Canon EOS-1D X Mark II, Lens Canon 50mm f / 2.5 Macro. Speed 1/8, opening F 8, ISO 10000,
Location: Yaxha Nakum Naranjo National Park, Peten. Shore of Lake Yaxha, north side.
Photography by: Alejandra Gutiérrez, FLAAR Mesoamerica.



Auricularia americana

NIKON D810. Lens Zeiss Makro-Planar 2/100 ZF.2.

Speed 1/125, aperture f 14, ISO 2000. Location: National Park Yaxha Nakum Naranjo, Peten. Lakeside of Yaxha, north side Photography by: Nicholas Hellmuth, FLAAR Mesoamerica



Auricularia americana

NIKON D810. Zeiss Makro-Planar lens 2/100 ZF.2.

Speed 1/125, aperture f 14, ISO 800, Location: Yaxha Nakum Naranjo National Park, Peten. Shore of Lake Yaxha, north side. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

NIKON D810, Nikon AF-S Lens Micro 60mm F2.8 G. Speed 1/250, aperture F 8, ISO 640.
Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group.
Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

NIKON D810, Nikon AF-S Lens Micro 60mm F2.8 G. Speed 0.3, aperture F 13, ISO 500.
Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group.
Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

Canon EOS-1D X Mark II, Canon MP-E 65MM F / 2.8 1-5X MACRO, Speed 1/80, aperture F 8, ISO 640.
Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group.
Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

Canon EOS-1D X Mark II, Canon MP-E 65MM F / 2.8 1-5X MACRO. Speed 1/200, opening F 8, ISO 640, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

Canon EOS-1D X Mark II, Canon MP-E 65MM F / 2.8 1-5X MACRO. Speed 1/200, opening F 8, ISO 640, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Sarcoscypha occidentalis

Canon EOS-1D X Mark II, Canon MP-E 65MM F / 2.8 1-5X MACRO, Speed 1/80, aperture F 8, ISO 640, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Cookeina tricholoma

NIKON D810, AF-S Lens Micro 60mm F2.8 G, Speed 1/250, aperture F /10.0, ISO 160.

Location: Yaxha Nakum Naranjo National Park, Peten.

Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Cookenia tricholoma

NIKON D810 Ver.1.02, Nikon AF-S Lens Micro 60mm F2.8 G, USM. Speed 1/60, opening F 11, ISO 640,

Location: Yaxha Nakum Naranjo National Park, Peten.

Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Geastrum saccatum

NIKON D810. Nikon Lens AF-S Micro 60mm F2.8 G. Speed 1/8, aperture F 9, ISO 200, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Geastrum saccatum

NIKON D810. Nikon Lens AF-S Micro 60mm F2.8 G. Speed 0.3, aperture F 11, ISO 500, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica



Geastrum saccatum

NIKON D810. Nikon Lens AF-S Micro 60mm F2.8 G. Speed 0.3, aperture F 11, ISO 500, Location: Yaxha Nakum Naranjo National Park, Peten. Gap Ana Bella, Maler Group. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Trametes versicolor

NIKON D5, Zeiss Makro-Planar Lens 2/100 ZF.2, Speed 1/200, aperture F 10, ISO 16000,
Location: Yaxha Nakum Naranjo National Park, Peten, Yaxha Lake shore north side,
Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Trametes versicolor

NIKON D5. Zeiss Makro-Planar Lens 2/100 ZF.2, Speed 1/200, aperture F 10, ISO 16000, Location: National Park Yaxha Nakum Naranjo, Peten, Yaxha Lake shore north side. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Trametes versicolor

NIKON D5. Zeiss Makro-Planar Lens 2/100 ZF.2, Speed 1/250, opening F 10, ISO 16000, Location: Yaxha Nakum Naranjo National Park, Peten, Yaxha Lake shore north side. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



Trametes versicolor

NIKON D5. Zeiss Makro-Planar Lens 2/100 ZF.2, Speed 1/250, opening F 10, ISO 16000, Location: Yaxha Nakum Naranjo National Park, Peten, Yaxha Lake shore north side. Photography by: Nicholas Hellmuth, FLAAR Mesoamerica.



MUCH MORE THAN A PARK

The Yaxha-Nakum-Naranjo National Park raises within its objectives the protection and conservation of the natural resources of the area, as well as the conservation of the ancient Mayan cities. Thanks to its natural beauty, the aspiration is for this place to be attractive to visitors and a source of income for the communities. It also aims to be a tool for environmental education, scientific research and ecotourism, leveraging the natural potential that exists in this protected area.

That is why our organization FLAAR Mesoamerica, with the support of the authorities that manage the park, has created the material you have in your hands, to generate interest among students, researchers and tourists visiting the area. FLAAR Mesoamerica has specialized in the photographic documentation of species of flora and fauna, and in the compilation of biological, botanical, ethnobotanical and ethnozoological research to make known the variety of natural resources that exist in the region

FOR MORE INFORMATION

-  www.destinoyaxha.com
-  www.flaar-mesoamerica.org
-  [@PN_YNN](https://twitter.com/PN_YNN)
-  [/pnynn.guatemala](https://www.facebook.com/pnynn.guatemala)
-  [/FLAARM](https://www.facebook.com/FLAARM)

HOW TO GET TO YAXHA?

MAP LEGEND



Archaeological sites



Airports



Earthworks



Highway



PROTECTED AREA



INDICATIONS

Go to the Mundo Maya airport in Santa Elena and then you will find a services of tourist vehicles to go to the archaeological site.

If you want to go by car from Guatemala City, take the following route: Río Dulce - Poptún-Flores. At the junction further on you will find on the left the route to Tikal. Go straight on to the right towards Yaxha (towards Melchor de Mencos). In km. 521 at the village La Maquina, turn left to the site.

Ecolodge El Sombrero is 50 meters before the entrance to National Park Yaxha - Nakum - Naranjo.

SPECIAL ACKNOWLEDGEMENTS

We thank

Lic. Leonel Ziesse –Coordinador Administrativo del Parque Nacional
Yaxha-Nakum-Naranjo (DGPCyN / MICUDE)

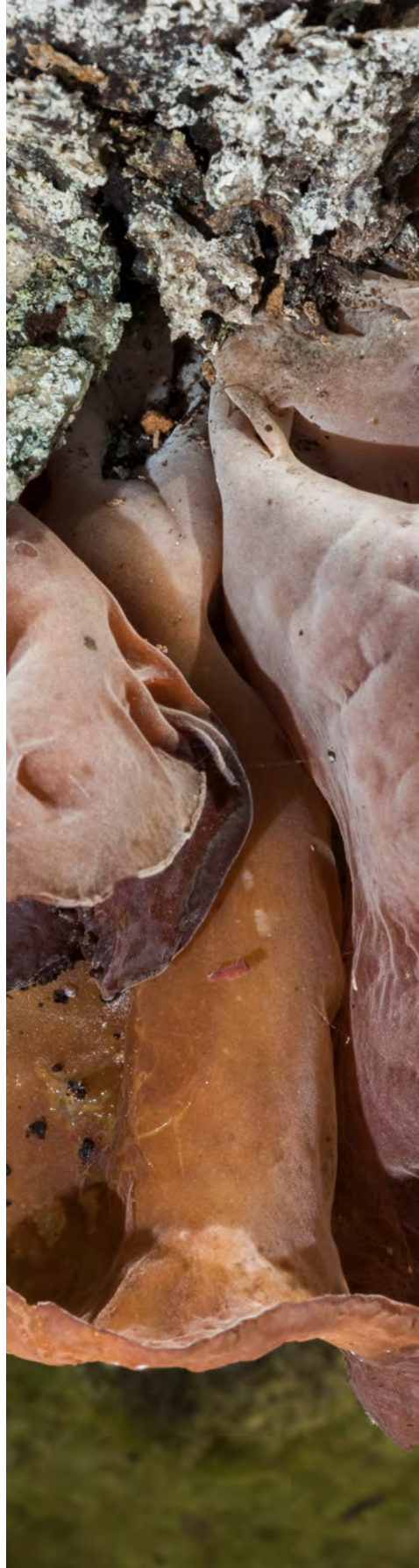
Ing. Jorge Mario Vazquez –Jefe del Parque (CONAP)

Biog. Lorena Lobos (CONAP)

Arq. Jorge Mario Ortiz

All the helpful and knowledgeable guides of IDAEH CONAP who accompanied us each day. It is essential to have either an IDAEH and/or CONAP guardabosque or comparable when doing flora and fauna research.

We appreciate the 16 years of knowledge of birds and plants of “Teco” (Moises Daniel Pérez Díaz). We also appreciate the assistance of park ranger Ricardo Herrera. It is essential to have either an IDAEH and/or CONAP guardabosque or comparable when doing flora and fauna research.



Auricularia americana

Canon EOS-1D X Mark II, Canon 50mm f / 2.5
Macro Lens. Speed 1/8, opening F 8, ISO 10000.
Location: Yaxha Nakum Naranjo National
Park, Peten. Shore of Lake Yaxha, north side.
Photography by: Alejandra Gutiérrez, FLAAR
Mesoamerica.

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PÁGINAS WEB PARA IDENTIFICAR ESPECIES

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INFORMACIÓN Y FOTOGRAFÍAS DE AURICULARIA AMERICANA DISPONIBLE EN:

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BACKPOT PHOTOGRAPHY:

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