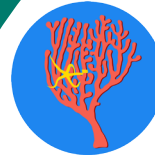




**PARQUES NACIONALES
NATURALES DE COLOMBIA**

ROUNDTABLE FOR DEVELOPMENT COOPERATION

· Side Event



**7th INTERNATIONAL SYMPOSIUM
DEEP-SEA CORALS**

July 29-August 2, 2019 | Cartagena, Colombia

Monday
**July 29th
2019**

Cartagena D.T.C.

Bocagrande

Hotel Intercontinental

Hall Aguamarina I & II

14:00 - 16:00

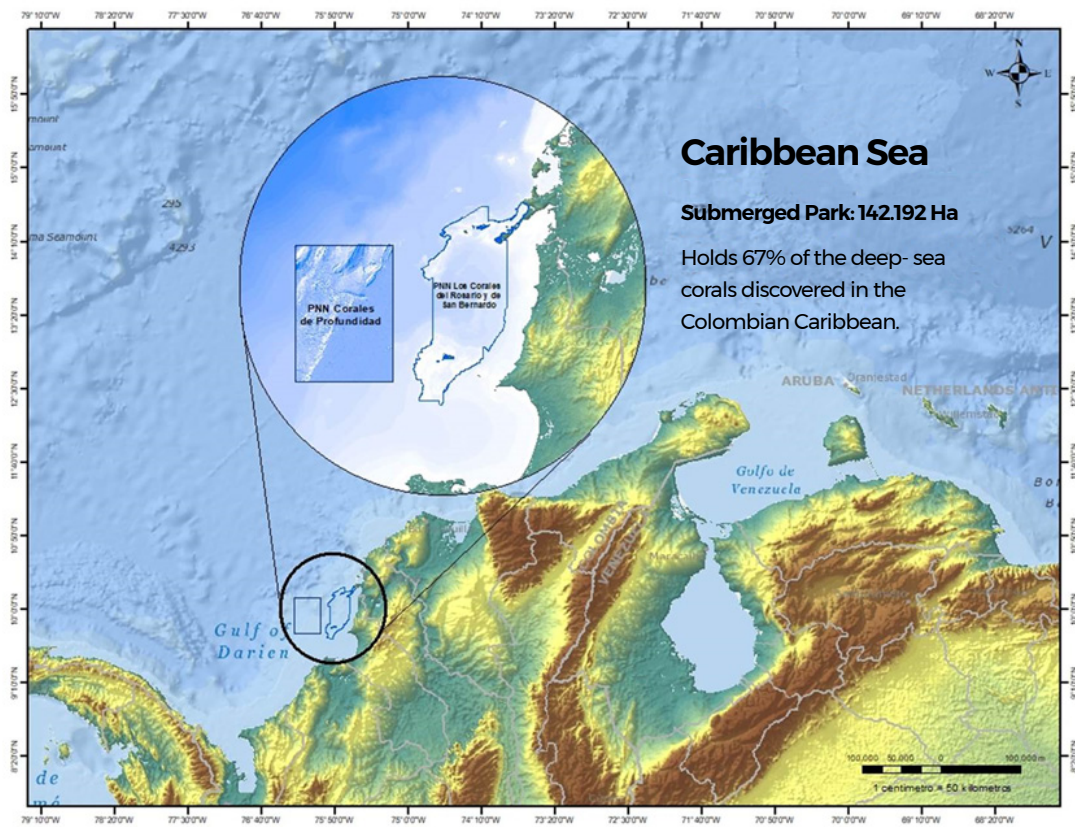
**Corales de
Profundidad**

National Natural Park

Photo: Delis Seayra

Corales de Profundidad

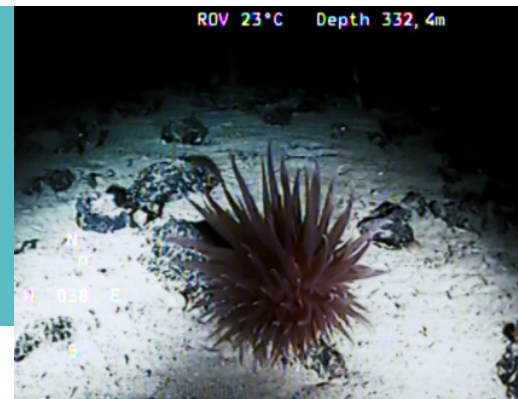
National Natural Park



Mesophotic corals



Deep-water corals



Soft Bottom

- Priority site for the conservation of marine and coastal biodiversity in Colombia (Alonso et al., 2007).
- The National Park was declared in April 2013, through Resolution 0339 of the Ministry of Environment and Sustainable Development (MADS, for its initials in Spanish).
- Significant abundance of deep-sea corals and a high diversity of invertebrates associated with them.



Photo: Juan Vega

Goals

of the **Protected Area**

1) To conserve the deep-sea coral formations that are on the edge of the continental shelf and in the upper slope, as an expression of representativeness and ecosystem singularity and as an essential habitat for a diversity of marine species.

2) To contribute to the supply of ecosystem services provided by deep-sea coral formations, in special considering its connectivity with other marine ecosystems and their role in the dispersal of various species of benthic habits (PNN CPR Management Plan, 2015).



Photo: Daibis Seguro

Programs

Among the following programs of the Corales de Profundidad National Natural Park, **with which would you identify?**

- **Physical Oceanography**
- **Biological Oceanography**
- **Deep-Sea Exploration**
- **Marine spatial ordering program: socioeconomic and productive**



Physical Oceanography Program

Oceanographic characterization of the marine protected area in terms of abiotic variables in the water column.

- What are the characteristics of the water masses circulating in the PNNCPR?
- How is the superficial current dynamic and in the deep-sea stratum?
- What are the temperature and salinity ranges?

Themes:

- Climate change and ocean acidification.
- Pollution.

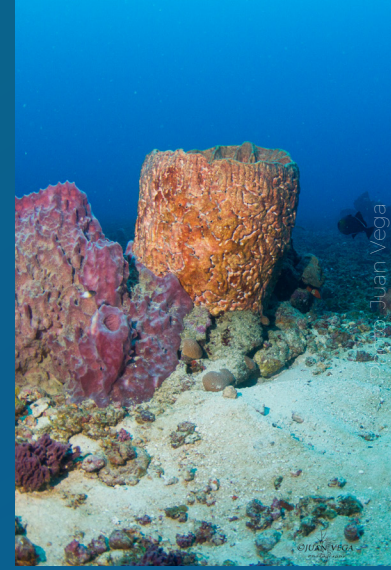
Biological Oceanography Program

Biological characterization of the existing habitats (mesophotic corals, deep-water corals and soft bottom) in the marine protected area, identifying biological diversity and environmental condition.

- What species live in the PNNCPR?
- How is the ecological function inside of these species habitat?
- How does ecological connectivity occur inside and outside the area?
- What are the main biological characteristics of each one of the habitats that are in the AP?

Themes:

- Foram Index.
- Communities in mesophotic, deep-water and soft bottom environments.
- Sea mammals.
- Benthic communities.
- Lion fish.



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Deep-Sea Exploration Program

From a biological, physical and geological perspective, characterization of the water column and that of the marine protected area depths that have been little explored (100-1074 m). A good example being the deep-sea corals.

- What secrets hold the deepest zones of the PNNCPR?

Themes:

- Technology.
- Prototypes
- Infrastructure.

Themes:

- Marine management.
- 1% social investment.
- Industrial fishing
- Navigability and transfer of maritime information.
- Agreements and participations of fishing communities

Marine spatial ordering program: socioeconomic and productive

Within the PNNCPR and its surroundings, economic and productive activities such as hydrocarbon exploration, the presence of submarine cables and industrial fishing activities converge; and at the same time, the use of fishing resources within the area is generated by communities inhabiting the area of influence. This program seeks to generate a marine spatial planning that allows the biological, physical, social and productive factors to be integrated in a holistic way, in favor of the sustainable use of hydrobiological resources, by linking the traditional knowledge of the communities and the implementation of sophisticated acoustic cartography and the use of cutting-edge technology.

- How are productive activities integrated in the conservation of PNNCPR?
- How is ancestral knowledge integrated along with science for the generation of agreements of sustainable use of the hydrobiological resources of PNNCPR?
- How to generate a spatial prioritization for conservation efforts?



Photo: Deibis Segura

Agenda

of the business and cooperation roundtable

- 13:30 - 14:00 **Arrival and check-in.**
- 14:00 - 14:10 **Opening and welcoming words.**
Dr. Julia Miranda Londoño. Director General, National Natural Parks of Colombia.
- 14:10 - 14:20 **Presentation Corales de Profundidad National Natural Park.**
Frigate Lieutenant Edder Robledo. Chief in charge, PNNCPR.
- 14:20 - 14:40 **Program presentation.**
Milena Marrugo. Planning professional at PNNCPR.
- 14:40 - 15:50 **Spaces for dialogue and exchange.**
Guests will be invited by the PNNCPR staff to organize themselves in work spaces according to the programs.
- 15:50 - 16:00 **Closure of the event.**
Patricia Saldaña. Caribbean Territorial Director.