



Biosphere reserves: a tool for the management of coastal zones and islands in the Latin American Pacific

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¿What are biosphere reserves?



- Internationally recognized sites by UNESCO's Man and the Biosphere (MAB) Programme that include terrestrial, marine and coastal ecosystems.
- They promote solutions reconciling the conservation of biodiversity with its sustainable use.
- Sites for testing interdisciplinary approaches to understand and manage changes and interactions between social and ecological systems, including conflict prevention and management of biodiversity.
- They provides local solutions to global challenges.

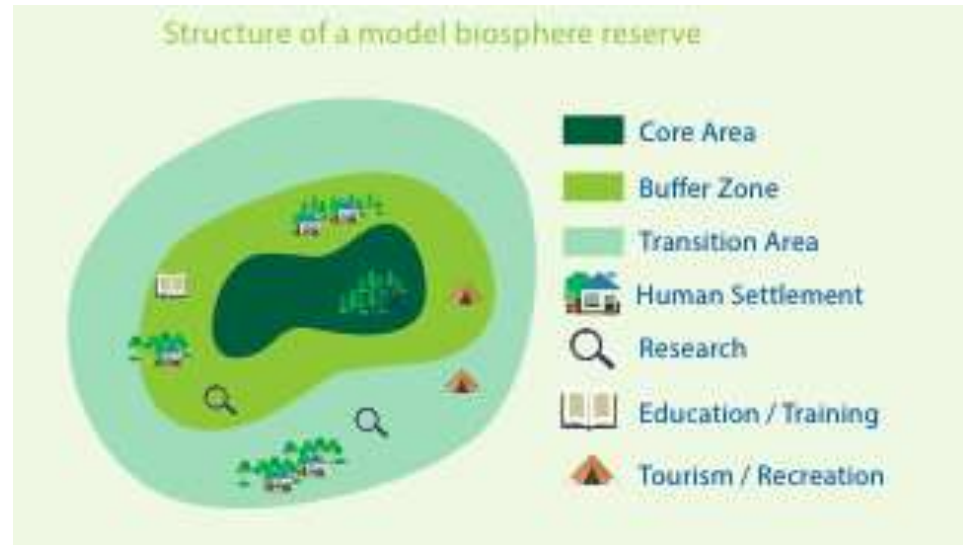
Biosphere reserves: Three zones, three functions

They consist of three interrelated zones that aim to fulfil three complementary and mutually reinforcing functions:

- The **core area** comprises a strictly protected zone that contributes to the conservation of ecosystems, species and genetic variation.

- The **buffer zone** surrounds the core area. Is used for activities compatible with sound ecological practices that can reinforce scientific research, monitoring, training and education.

- The **transition area** is where communities foster socio-culturally and ecologically sustainable economic and human activities.





Biosphere Reserves as model regions for sustainable development

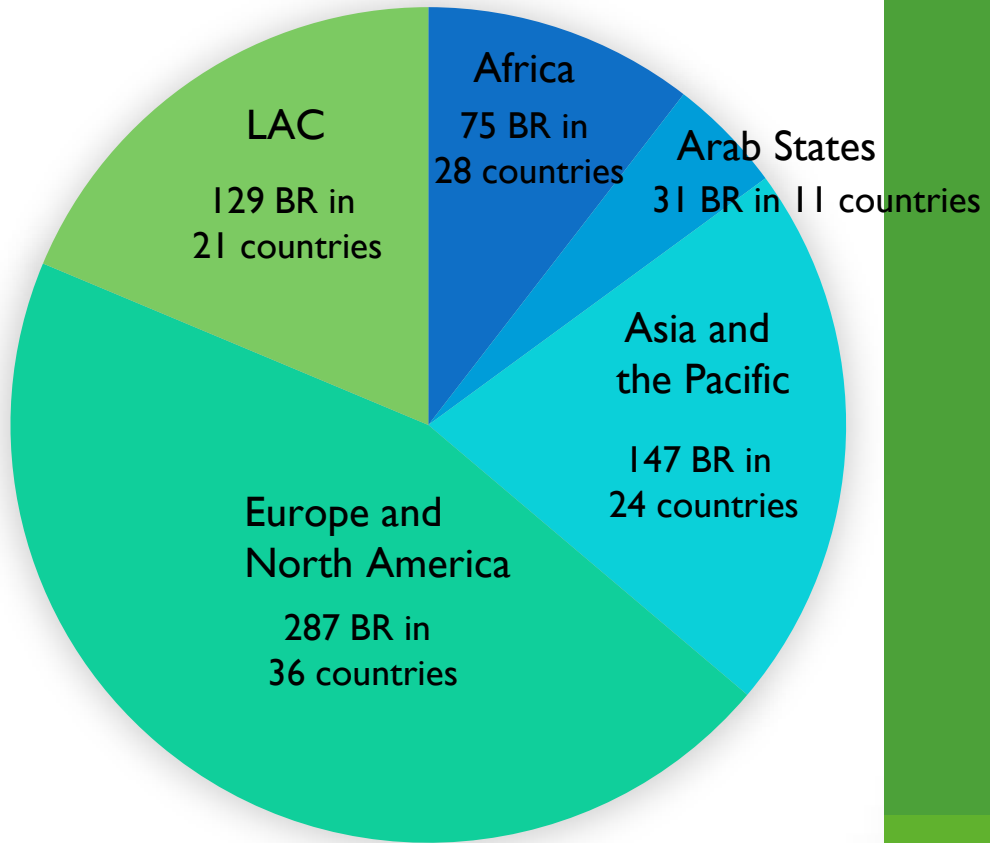
MAN AND THE BIOSPHERE PROGRAMME

- Conserve biological and cultural diversity at a global scale.
- Provide **local solutions to global sustainable development challenges, including climate change.**
- Facilitate the application of sustainability science and serve as **knowledge and skill incubators.**
- **Foster resilience of vulnerable groups** to build equitable and healthy societies.
- Explore and test **green economy and green society paradigms.**

The World Network of Biosphere Reserves (WNBR)

MAN AND THE BIOSPHERE PROGRAMME

- **669 Biosphere Reserves in 120 countries**
- **20 transboundary**
(Africa: 3, Europe & NA: 12, LAC: 3)
- Including 2 **transcontinental** between Europe (Spain) and Arab States (Morocco), and Europe (Russian Federation/and Asia Pacific (Kazakhstan))
- Cover all main ecosystem of the world.
- Home to over 200 million people.





BRESEP Project: Biosphere Reserves as a Tool for Coastal and Island Management in the South-East Pacific Region



BRESEP Project: study area

- Four-years project financed by the Flemish Government of Belgium.
- Coordinated by the MAB Programme with technical support of SPINCAM, a project coordinated by UNESCO-IOC and the Permanent Commission for the South Pacific.
- SPINCAM establishes a framework of indicators for integrated coastal management at national and regional levels, focusing on the state of the coastal and marine environment and socioeconomic conditions.





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BRESEP Project: study area

- South-East Pacific countries: Chile, Colombia, Ecuador, Panama and Peru
- Covers diverse ecosystems: tropical, subtropical, temperate and sub-Antarctic.
- Nutrient-rich waters with one of the largest upwelling systems in the world: high-productivity fishing areas.





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BRESEP Project: objectives

- Create and strengthen existing biosphere reserves in the coastal zones and islands of the South Eastern Pacific, in Chile, Colombia, Ecuador, Panama and Peru.
- Promote biosphere reserves as tools for innovative projects to add value to local socio-economic activities.



BRESEP Project: objectives

- Awareness-raising and capacity building of all concerned stakeholders in the area: governance and management of biosphere reserves, sustainable development, international funds
- Strengthening national networks
- Creation and support of international alliances and networks





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BRESEP Project: international activities

- Five meetings in Chile, Peru, Ecuador, Colombia and Panama.
- Workshops: Management and Planning Marine and Coastal Protected Areas; three workshops on Biosphere Reserves Products and Services, International funds / cooperation; Forest fires
- Ecuador and Peru: created the first Transboundary Biosphere Reserve in South America: "Forests of Peace"
- Chile and Ecuador: twinning agreement between the Galapagos Biosphere Reserves and the Juan Fernández Archipelago.



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BRESEP Project: national activities

Darién Biosphere Reserve

New Biosphere Reserve Tribuga-Cupica-Baudó

Colon (Galápagos), Bosque Seco and Macizo del Cajas BR. **New BR Golfo de Guayaquil**

Noroeste Amotapes Manglares BR

Fray Jorge Biosphere Reserve

Juan Fernández Biosphere Reserve

Laguna San Rafael Biosphere Reserve

Cabo de Hornos Biosphere Reserves



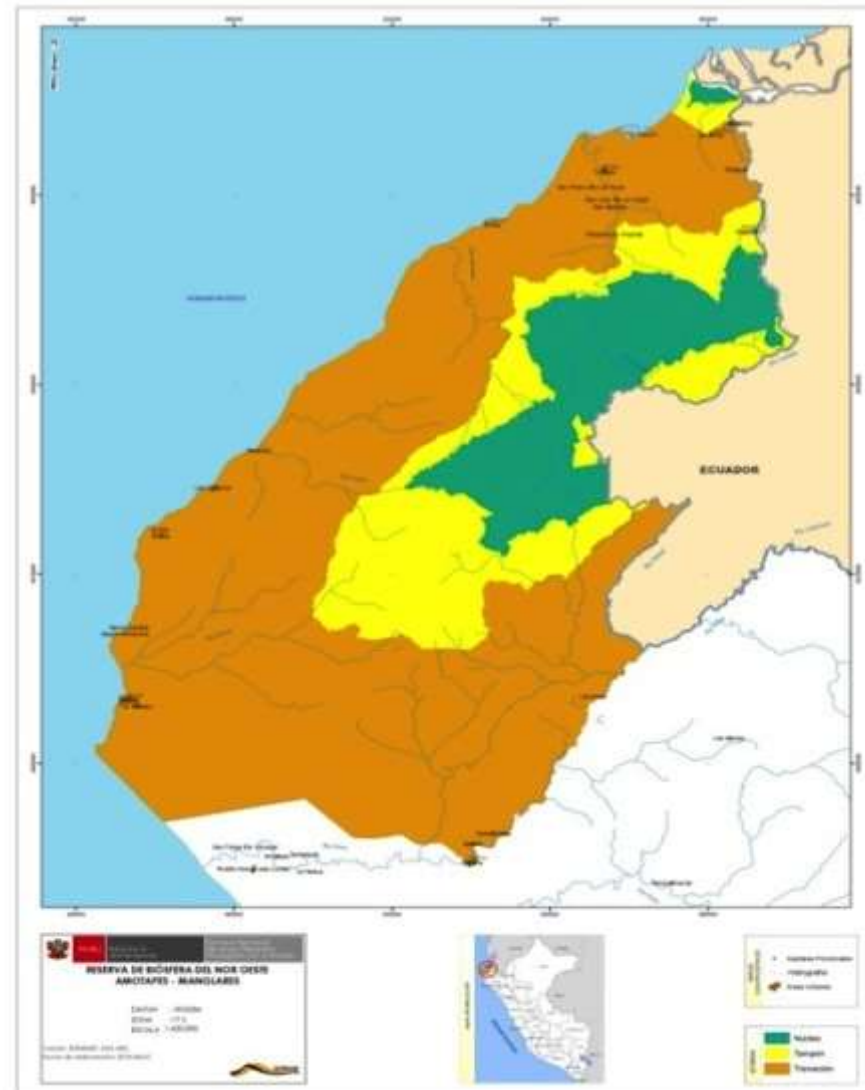
BRESEP Project

MAIN RESULTS



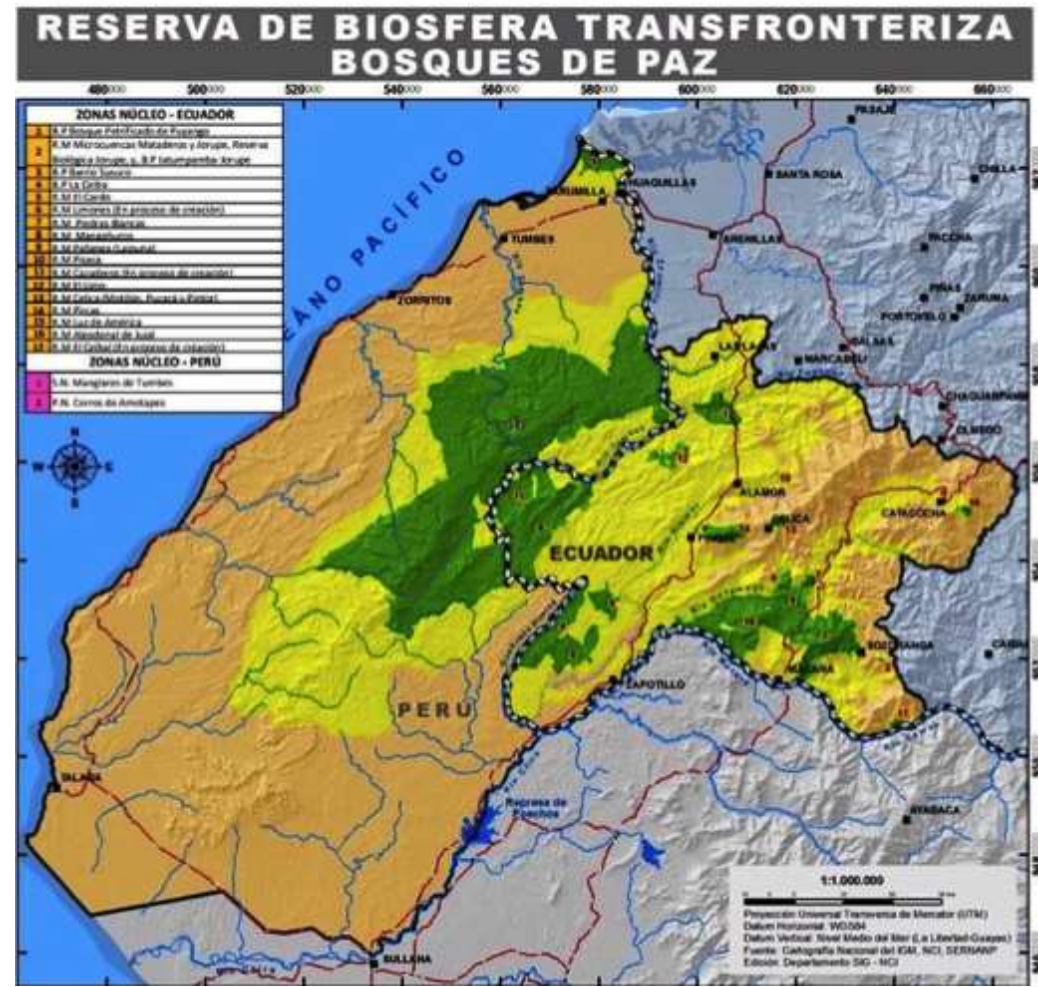
Extension of the Noroeste BR: Peru

- Extension of the Noroeste Biosphere Reserve:
Amotapes-Manglares
Northwest Biosphere
Reserve (Peru)
- It includes: Cerros de
Amotape National Park, El
Angolo Hunting Reserve and
the mangrove protected
area of Tumbes.
- Extended area: 1,115,947
hectares.



Nomination of the Bosques de Paz BR: Ecuador-Peru

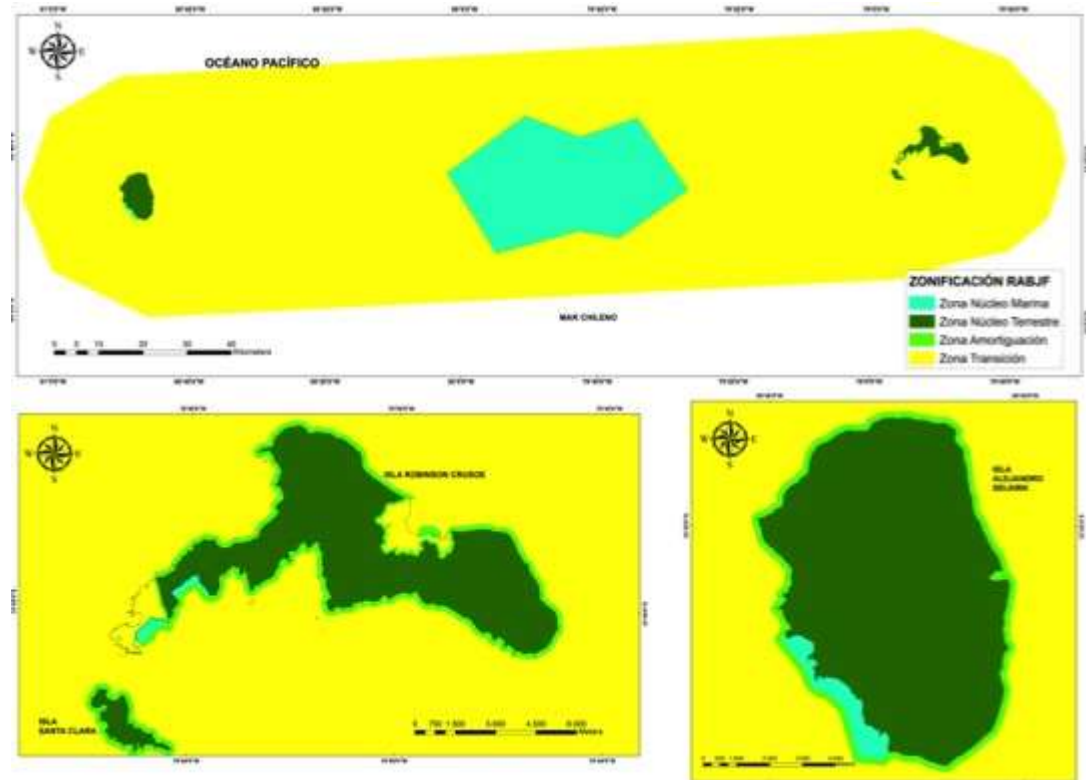
- First transboundary reserve in South America
- Total area of 1,616,988 hectares
- Seeks to be a model of participatory and citizen management that can strengthen peace, sustainability and ecological connectivity between both countries.



Extension proposal for the Juan Fernandez BR, Chile



- Updated Biosphere Reserve, with 3 zones (extension file to be validated)
- Extension of the area from 9,570 ha to 1,216,453 ha.



Improvement of the management of the Fray Jorge and Cabo de Hornos BRs, Chile

- Work with communities and local governments to increase empowerment
- Management committees have been consolidated
- New management plans have been developed and approved by stakeholders



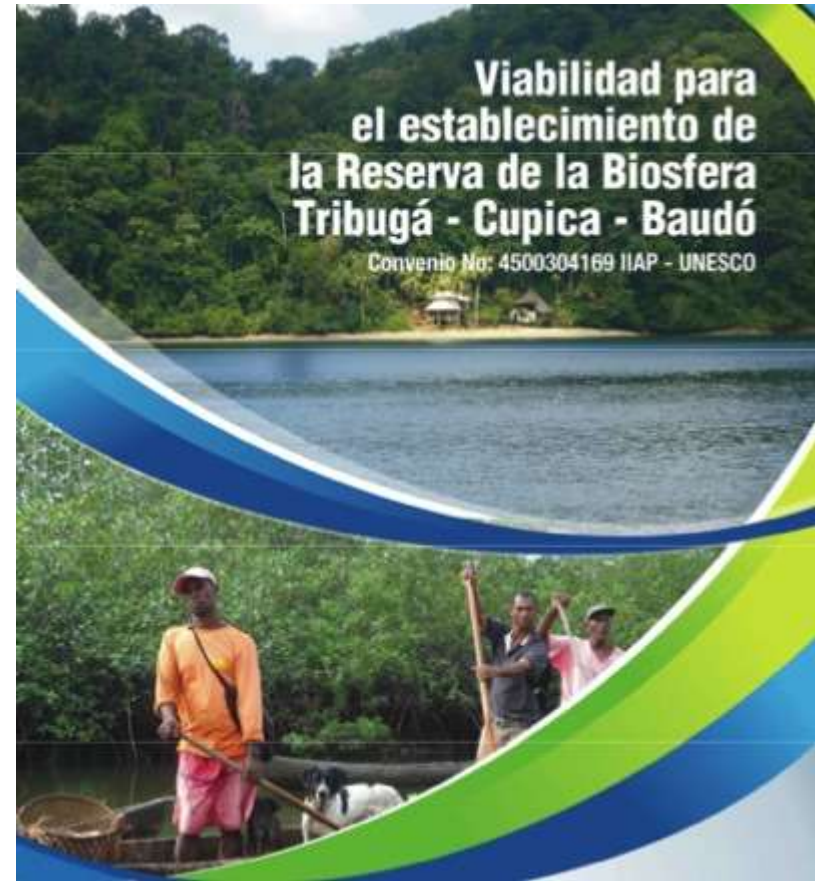
Cabo de Hornos BR, Chile

The Cabo de Hornos Biosphere Reserve was chosen as one of the 100 sustainable tourism destinations 2016.



New BR proposal in Colombia

- The workshops with the community showed support for a new BR
- Baseline of the area has been achieved
- Minister of Environment of Colombia has announced that they will present the nomination file for the new RB Tribuga-Cupica-Baudó Biosphere Reserve, the first biosphere reserve on the Colombian Pacific coast.



Extension and management improvement : Darién BR, Panama

- Extension file has been completed
- Work with communities and local governments to increase empowerment
- Management committee have been consolidated





¡Thank you!