

Global Wildland Fire Network



Regional South America Wildland Fire Network

**Rapporteur: Mariana Senra de Oliveira
Daniel Segura**

Retrospective 2019-2023

- Significant events
- Key challenges
- Network activities
- Institutional capacity building
- Progress in Integrated Fire Management and policy development



8TH
INTERNATIONAL
WILDLAND FIRE
CONFERENCE

Significant events – Wildfires in Pantanal in 2020

scientific reports

www.nature.com/scientificreports

OPEN **Distance sampling surveys reveal 17 million vertebrates directly killed by the 2020's wildfires in the Pantanal, Brazil**

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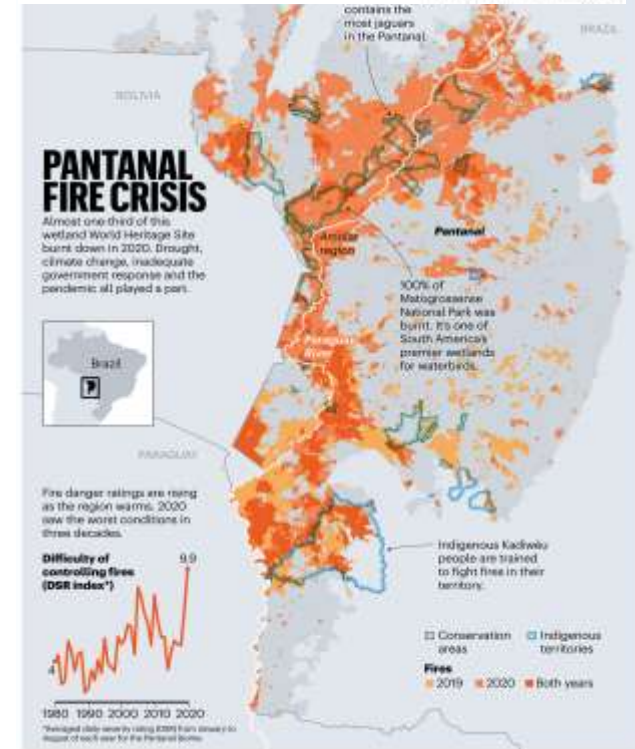
 **39.000 km²**

Rescue Brazil's burning Pantanal wetlands

Renata Libonati, Carlos C. DeCamargo, Loovaniê F. Penna, Léo A. Sander de Carvalho & Letícia C. Garcia

Climate extremes, poor management and lax laws are making this World Heritage Site prone to fierce fires. Researchers and governments must develop a plan to manage these risks together.

Brrazil has changed. As well as the 13.7 million hectares of wetlands in the Pantanal, the largest tropical wetlands in the world, on this, 17 million hectares of forest, savanna and other land has been lost. More than the 15 states of Maryland have gone up in flames since January last year. In 2020, almost 40% of the Pantanal's wetlands were lost. Conservation areas such as Emas National Park have been threatened. A devastating loss of the largest population of jaguars in the world. Fires' impacts have been felt nationwide. Brazil has spread thousands of kilometers, reaching as far as São Paulo, Rio de Janeiro and Curitiba. Southern states have experienced showers of black ash. The fires are the burning frontier, occurring, burning and spreading as well as actions such as



Key Challenges

Possibility of more significant events (extremes wildfires) with the advance of the Climate Change.

Advance of forest fires in sensitive ecosystems such as the Amazon rainforest and Andean paramos.



Network Activities



“Protocol to combat forest fires in the Amazon” – within the scope of the Lectícia Pact

“Memorandum of Understanding on Cooperation and Mutual Assistance for Integrated Fire Management”

http://otca.org/en/wp-content/uploads/2021/08/MOU_MIF_ING_-1.pdf

Group of Specialists in Forest Fires of Latin America and the Caribbean (GEFF LAC)



Funded by
the European Union

Fire-Adapt Project



Institutional capacity building

Regional Fire Program for South America



Photo: Suelene Couto/USFS

Institutional capacity building

Framework Collaboration Agreement between the Chilean National Forest Service (Conaf / Chile) and the Pau Costa Fire Ecology and Fire Management Foundation (FPC / Spain)

Air Operations Coordination (COA) program

Prescribed burning course



Network activities

International support in fighting forest fires

In 2019, 197 brigade members and equipment were sent from Argentina to Bolivia to help fight the fires in the Amazon.



In 2023, combat personnel from 9 countries, Argentina, Brazil, Colombia, Ecuador, Spain, France, Mexico, Portugal, and Venezuela arrived in Chile, totaling 900 people.

Progress in Integrated Fire Management and policy development



Advances in the discussion and implementation of the integrated fire management approach in Latin American countries

National Policy for Integrated Fire Management in Brazil

Forest fire reduction program through integrated fire management actions "Amazon without Fire" in the highlands and coastal regions of Ecuador (PASF).





OBJECTIVE

Reduce the incidence of forest fires in the highlands and coastal regions of Ecuador, through the implementation of **integrated fire management actions**, contributing to protecting the environment and improving the living conditions of the communities.

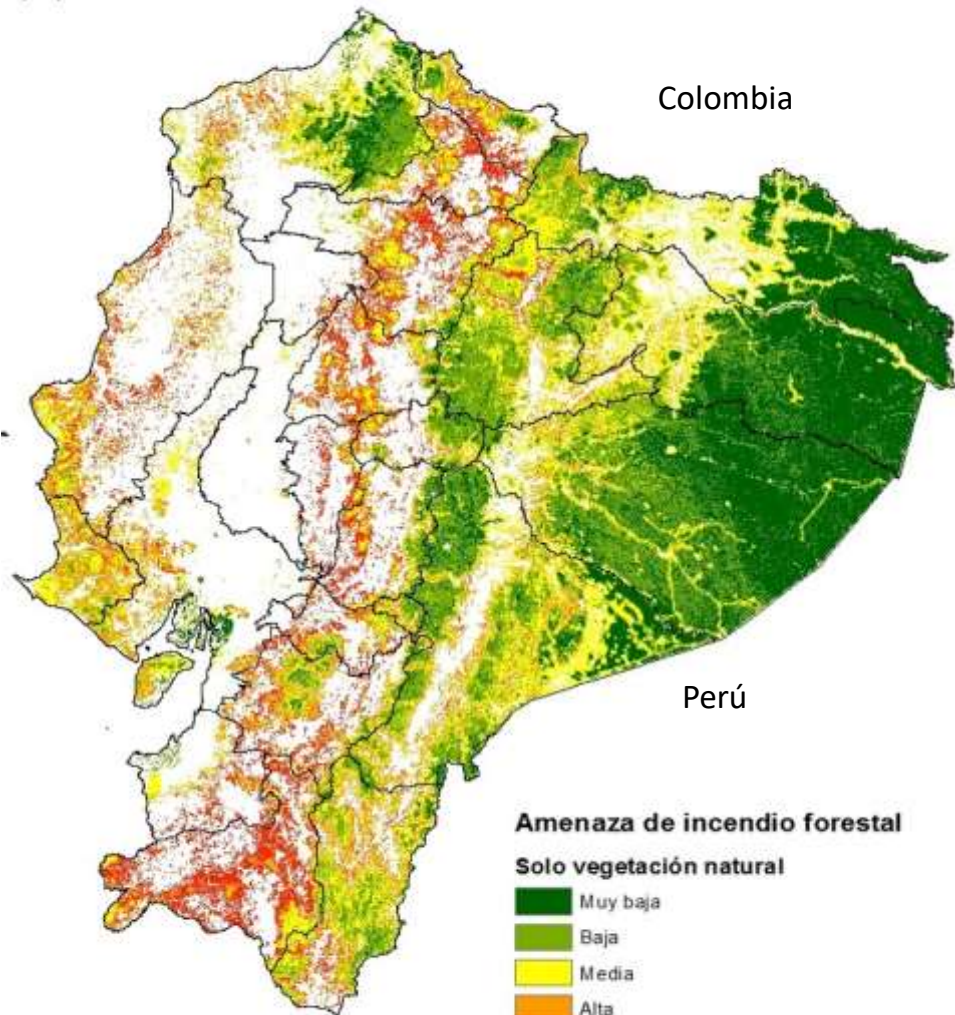
INSTITUTIONAL PARTNERS



APPROACH

Integrated fire management in landscapes at risk

Forest fire threat map



Amenaza de incendio forestal

Solo vegetación natural

- Muy baja
- Baja
- Media
- Alta
- Muy alta



ANDEAN ECOSYSTEM



MONTANE FOREST



DRY FOREST

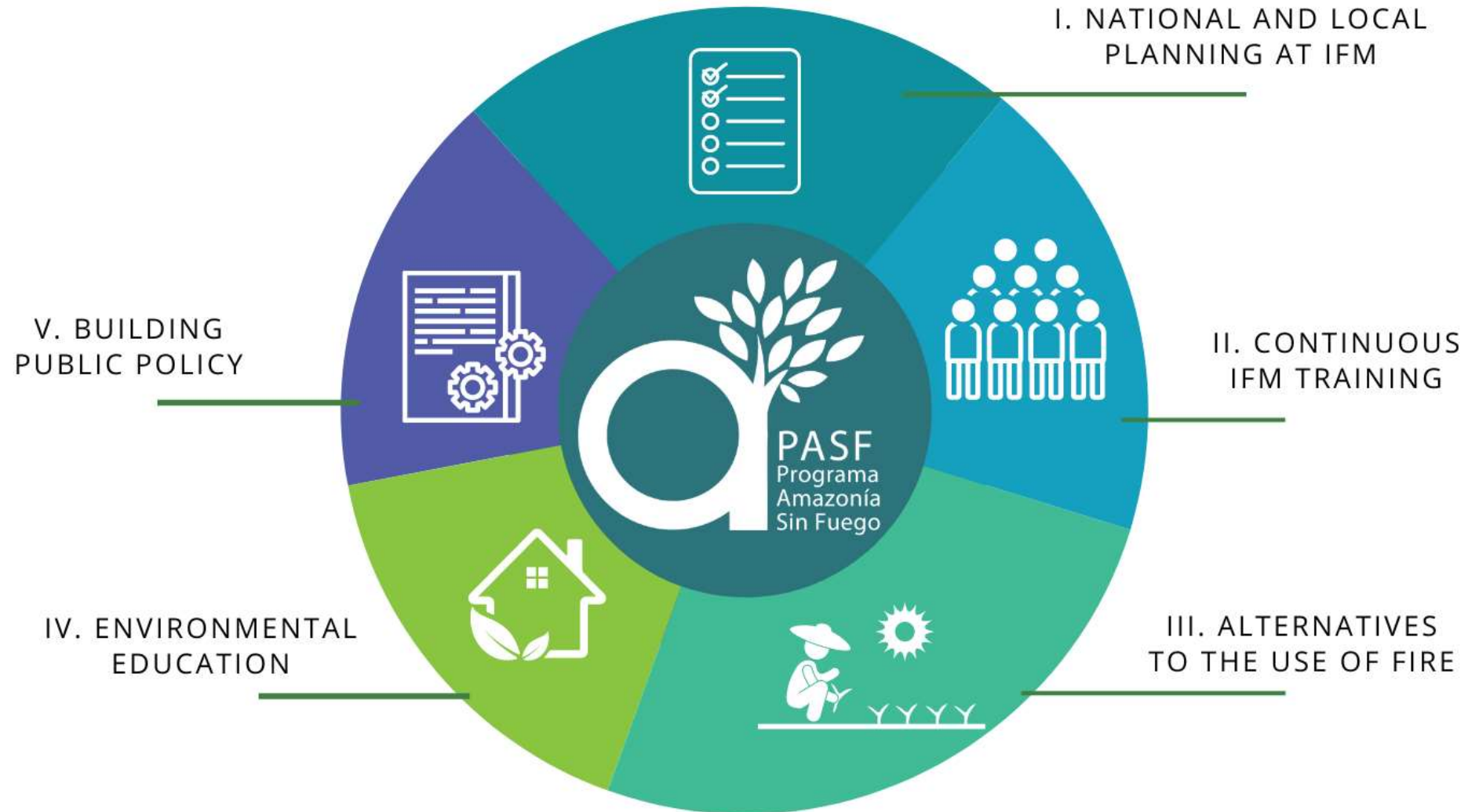


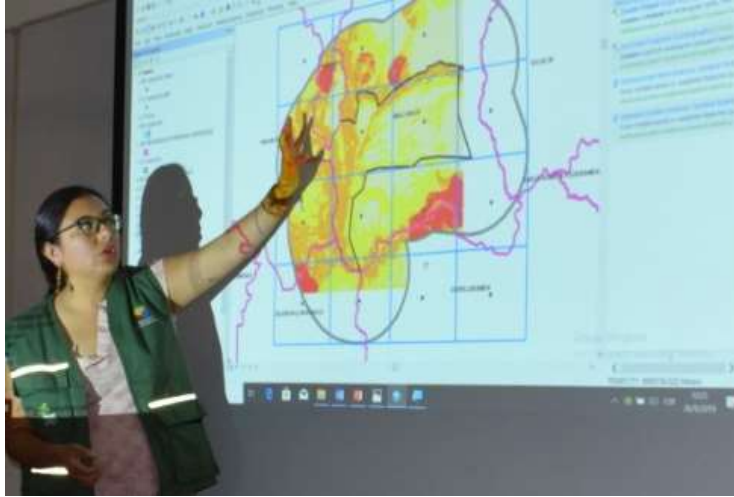
AGRICULTURAL LANDS



IPS, 2013

Pacific Ocean





- Planning methodologies and protocols in integrated fire management
- Inter-institutional technical plans for fire management in conservation areas
- National Research Agenda on Integrated Fire Management (2023 - 2030)
- Ministerial agreements for the formalization of instruments



Before the intervention of the Amazon Without Fire Program



Brigades Specialized in Integrated Fire Management



Development of Agroforestry Field Schools in rural areas



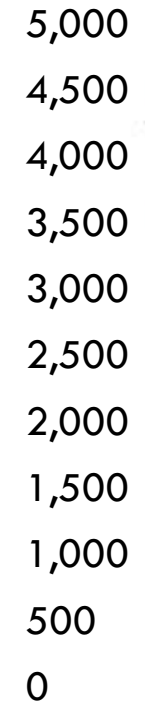
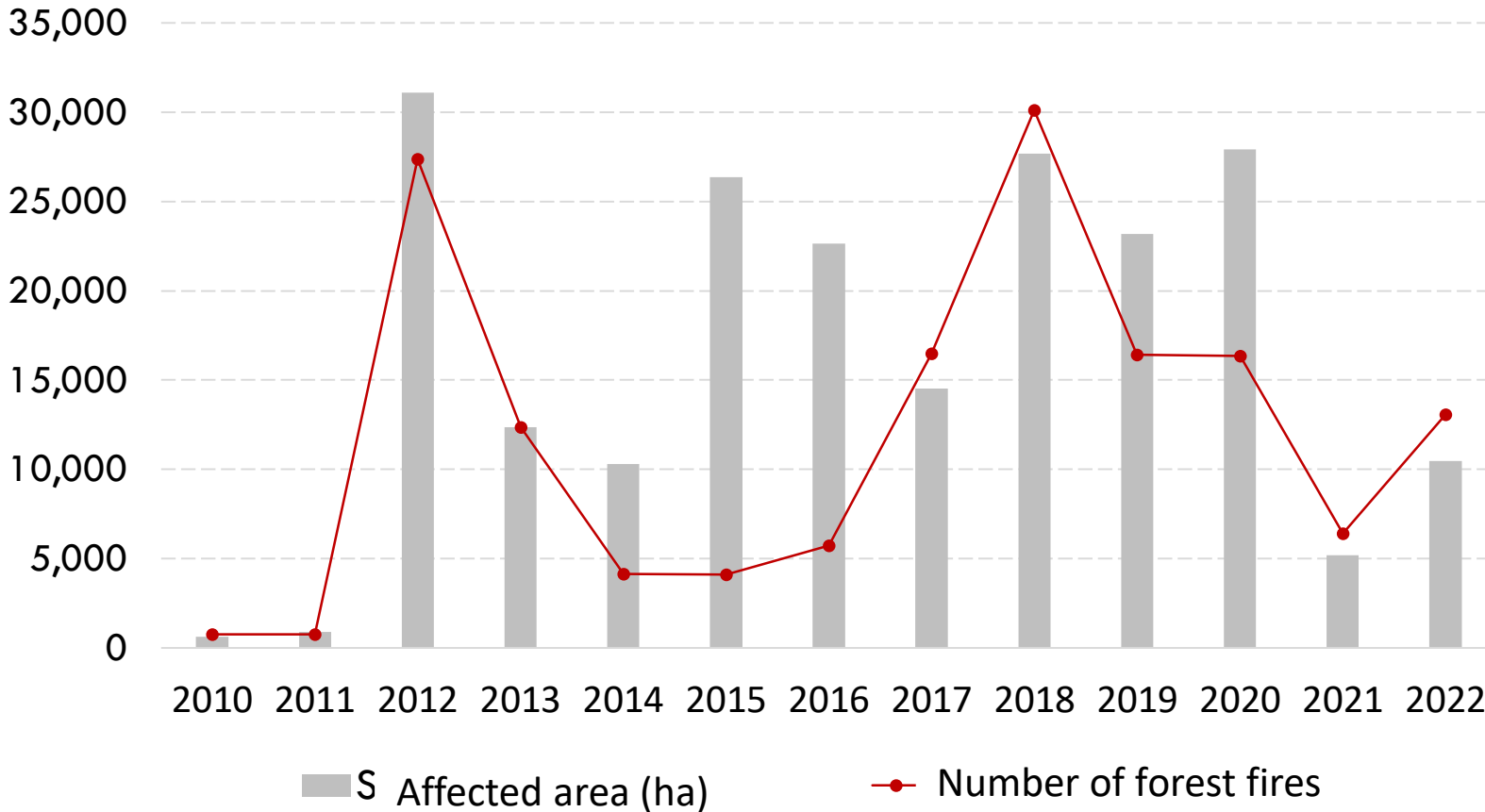
- Actions at the level of schools, colleges, and rural communities
- Launch of national and local forest fire prevention campaigns



**URKU
El Puma**



- **Ecuadorian environmental legislation already incorporates the integrated fire management approach**
- **National Integrated Fire Management Strategy of Ecuador by 2030 (in officialization)**
- **Technical standards for the use of fire for different purposes (in construction)**
- **Development of the Integrated Fire Management Fund (in construction)**
- **National qualification system and standardized curriculum in integrated fire management (in construction)**



Total affected area
213.157,2 ha



¡GRACIAS!

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