



BRAZIL PROGRAM

U.S. Forest Service International Programs

PROJECT HIGHLIGHTS

FIRE MONITORING
USFS, NASA and Brazil's Institute for Space Research (INPE) have developed and tested tropical fire science using satellite and ground data to detect and predict fires. Accomplishments include quantitative measurements of large fires, estimating rates burning in tropical savanna and forests, examining wildfire emissions, improving fire forecasting to model timing and severity of the fire season across Brazil's landscape.

SHARED SUCCESSES
Campos Amazonicos National Park, 961,539 HA, demonstrates the use of prescribed fire to reduce size, frequency, and severity of wildfire.

Serra Azul State Park and buffer zone, 18,000 HA, demonstrates consistent reduction in wildfire through volunteer and civil society prevention and patrolling.

Parque Indígena do Xingu-Alto Xingu, 400.000 HA, demonstrates the reduction of negative impacts through increased community training and collaboration

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FIRE PROGRAM

Human activities and dry conditions continue to influence fire in Brazil, accompanying land-use changes in threatening biological diversity, human health, and livelihood sources.

The U.S. Forest Service has over a century of forest management and fire experience, currently helping respond to over 70,000 wildfires per year and employing 10,000 professional wildland firefighters in the United States. Internationally, the U.S. Forest Service collaborates on science, policy, and training for coordination and on-site management of fires.

The U.S. Forest Service has worked with the Brazilian government and organizations since 1992 to develop technologies and practices for addressing wildfire in the Amazon and Cerrado (savanna). Policy related to the 2012 *Novo Código Florestal*, Integrated Fire Management approach, and increasingly severe seasonal fire impacts have prompted requests for U.S. Forest Service technical assistance through exchanges, courses, and consultations.

Examples of recent technical activities:

- Basic and Intermediate Training in the Incident Command System (ICS) and utilization of tactical decision-making exercises. In partnership with the Ministry of the Environment's Chico Mendes Institute for the Conservation of Biodiversity (ICMBio). 45 participants from ICMBio, the Brazilian Institute for the Environment (IBAMA), Bombeiros, and the National Indigenous Foundation (FUNAI).
- Technical visit on Prescribed Fires in Protected Areas to Florida to examine fire on sensitive landscapes with multiple management objectives such as conservation and tourism. 12 participants from ICMBio and IBAMA.
- Integrated Fire Management Training for Brazilian fire managers to plan, coordinate, and evaluate fire management actions based on unit objectives. 35 participants from ICMBio and partners.
- Community fire prevention and suppression training in eastern Mato Grosso state. In partnership with Aliança da Terra. 780 volunteers trained from rural producers and indigenous communities since 2008.



Fire burning through the night in Brazil's interior. Photo by Edimar Abreu, Aliança da Terra