



ICAO

ENVIRONMENT

22 NOVEMBER 2021

# ICAO FLYING FOREST FIRE FIGHTING DIALOGUE

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International Fire Aviation Working Group (IFAWG)





# Global Landscape Fires and Fire Management: Key Issues, Trends and Actors



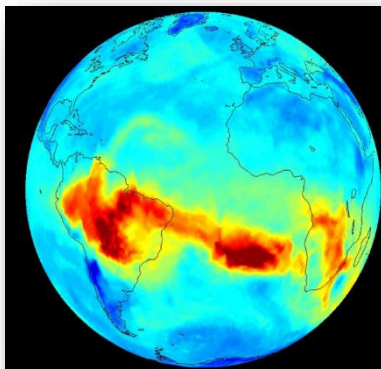
The Global Fire Monitoring Center (GFMC)



## Economic & Climate Changes and Fire – The Tropics – Key Issues

Fire application in land-use change: Controlled by political decisions

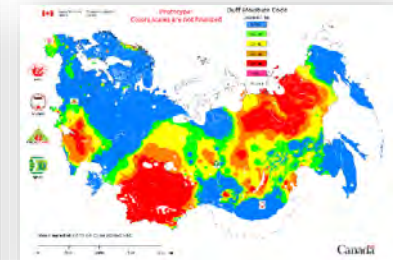
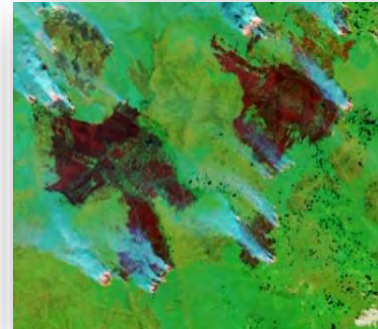
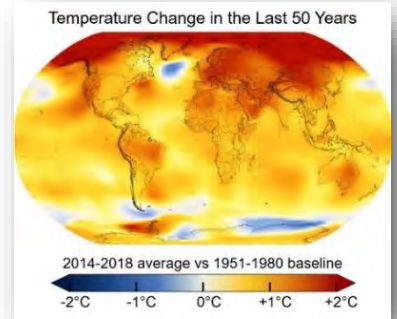
Wildfires: Increasing need for response by ground and aerial means, e.g. desiccating wetlands / protected areas



## The Boreal Zone

Climate change – increasing average temperatures, desiccation of wetlands and forests, progression of wildfires to the North:

Role of aviation – see presentation from Russia





## The Mediterranean

Land-use change and climate change:  
A detrimental synergy. Focus on prevention.

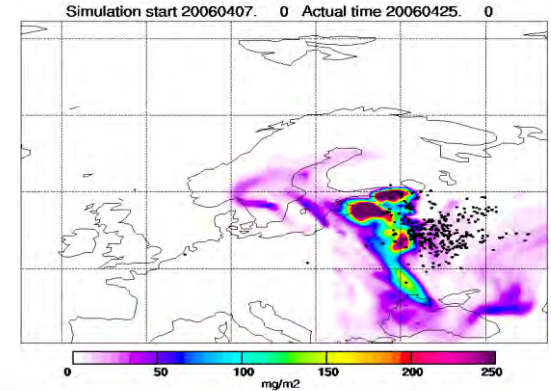
Portugal 2017 – Greece 2018  
Pan-Mediterranean 2021



## Temperate Zone – Example Europe

Agricultural Burning: Threats to soils, environment and communities

Certified Villages: Eligible for aerial fire protection

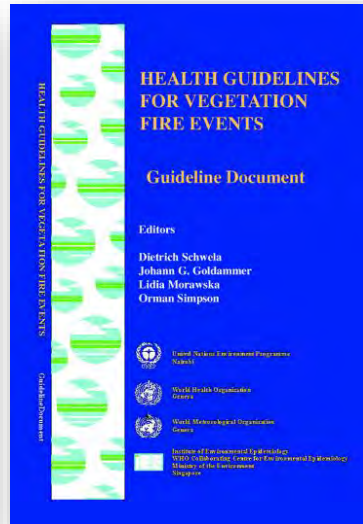
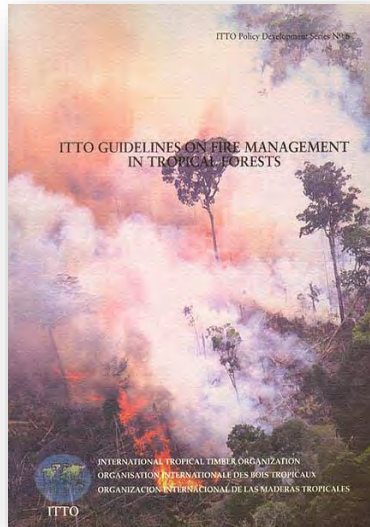






# International Actors – The United Nations Family

## Voluntary Guidelines for Fire Management: Support for Policy and Strategy Development



ITTO 1998



WHO 1999



FAO 2005





# International Actors – The United Nations Family UNECE / FAO Forum on Cross-boundary Fire Management (2013)



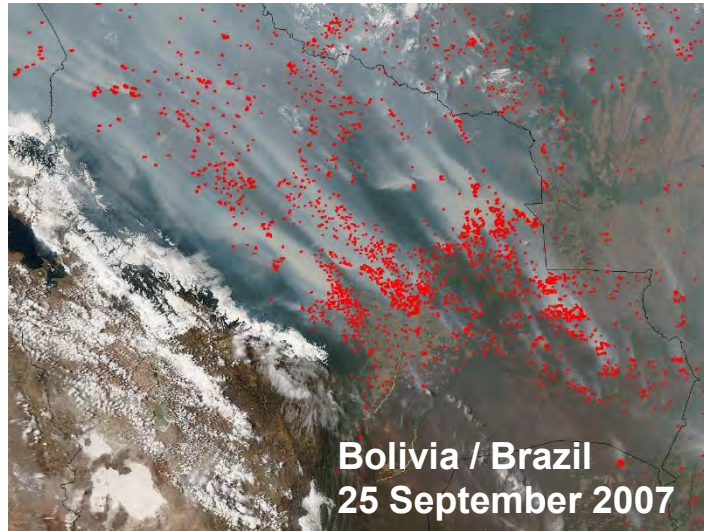
**Outcome:**  
The International  
Wildfire Preparedness  
Mechanism



# International Actors – The United Nations Family

## World Meteorological Organization (WMO)

### Vegetation Fire and Smoke Pollution Warning and Advisory System



## International Actors – Regional Intergovernmental Organizations

Strengthening national governance and cross-boundary cooperation in fire management: Wildfire crisis preparedness and response

– Effectiveness – Efficiency – Safety





## International Actors – Civil Society Organizations partnering with UN and Multilateral Organizations

- UNISDR Global Wildland Fire Network and Wildland Fire Advisory Group
- Regional Fire Management Resource Centers (14 Regions – 8 Centers)



UNISDR Inter-Agency Task Force – Wildland Fire Advisory Group (since 2001)



## International Actors – Civil Society Organizations partnering with UN and Multilateral Organizations

### International Aerial Firefighting Conferences – Since 2008



Wildland Fire Advisory Group and Fire Aviation: The International Fire Aviation Working Group (IFAWG) – since 2010 – see presentations of Riccardo Filippi and Richard Alder



## International Wildland Fire Conferences (since 1989) – The last: 7<sup>th</sup> IWFC Brazil 2019: Campo Grande Statement



### “Building Sustainable and Fire-Resilient Societies and Landscapes”

- Support of the **Sustainable Development Goals**, the goals of the **Paris Agreement** and the **Sendai Framework for Disaster Risk Reduction 2015-2030**
- This approach would be further strengthened by an appropriate **United Nations instrument**

## The Way Ahead: International Coordinated Action

- **International Landscape Fire Management Framework**
  - Expanding the informal voluntary IWPM to the UNISDR / UNDRR Sendai Framework
- **Wildfire Emergency Response**
  - UNEP/OCHA Joint Environment Unit (JEU) with partners (INSARAG, GFMC, Member States)
- **Technical – Civil Aviation**
  - ICAO: Normative role for setting international standards for Fire Aviation with Member States and IFAWG





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THANK YOU