Global Early Warning System for Wildland Fire: The Links to Multi-Hazard Approaches in Early Warning

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Wildland Fire: A Global Source of Multiple Hazards

Significant Ecosystem damage
  • Degradation in forest/grassland health due to uncontrolled burning
  • Agriculture and land degradation with losses in production
  • Hydrological changes resulting in desertification and flooding

Significant loss of life, including negative societal impact and economic losses
  • Losses and vulnerability at urban-rural interface increasing
  • Global health impact due to smoke and emissions
  • Disruption of transport due to changes in visibility
  • Costly fire suppression programs

Potential impact on climate change
  • Global carbon cycle impact
Global Partnership

- Global Fire Monitoring Center (GFMC), Max Planck Institute for Chemistry, c/o Freiburg University / United Nations University, Germany on behalf of the UNISDR Wildland Fire Advisory Group / Global Wildland Fire Network
- Canadian Forest Service (CFS), Edmonton, Canada
- Bushfire CRC, Australia
- Global Observation of Forest and Land Cover Dynamics (GOFC-GOLD) Secretariat, Edmonton, Canada
- University of Maryland (UMD), USA
- World Meteorological Organization (WMO)
  - World Weather Research Programme (WWRP)
- Bureau of Meteorology Research Centre (BMRC), Melbourne, Australia
- European Centre for Medium Range Weather Forecasting (ECMWF)
  - Instituto Nacional De Meteorologia, Spain
  - Finnish Meteorological Institute, Finland
  - MetOffice, UK
Global Early Warning System for Wildland Fire undertaken in collaboration with WMO-

National Meteorological and Hydrological Services

World Weather Watch Programme

WMO Space Programme

Natural Disaster Prevention and Mitigation Programme

World Climate Programme

Atmospheric Research and Environment Programme

Applications of Meteorology Programme

Hydrology and Water Resources Programme

Education and Training Programme

Technical Cooperation Programme

Regional Programme

Global Early Warning System for wildland fire product generation and operational dissemination through WMO/NHMS to provide a reliable and effective delivery and usage. Dissemination also available through GFMC/CFS/Community Based Fire Management (CBFiM)

NMHS’s routinely involved in services for multi-hazards and have established mechanisms for coordination and treatment dealing with responsible authorities, public etc. Provides an effective end-to-end process